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

Level IV Data Package for

Anchor QEA, LLC

Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores

Apex Laboratories Work Order #:

A0A1011

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard, OR 97223 phone 503-718-2323

Table of Contents
A0A1011
(page 1 of 2)

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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data
Batch 0020004
Sequence 0B07014 (A0A1011-01,02,03)
Sequence 0B06012 (QC Only)

Batch 0020348
Sequence 0B12052 (A0A1011-04RE1,05RE1,06RE1)

Calibration Data
Sequence 0A13050 (Cal ID A0A1501) DUALECD2R

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data
Batch 0020105
Batch 0020205
Sequence 0B14020 (A0A1011-04RE1,05RE1,06RE1)
Sequence 0B20033 (A0A1011-02RE1,03RE2)
Sequence 0B21033 (A0A1011-01RE1)
Sequence 0B17041 (QC Only)

Calibration Data
Sequence 0B01012 (Cal ID A0B0404) DualECD8

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data
Batch 0010978
Sequence 0B03036 (A0A1011-01,02,03)
Sequence 0A31025 (QC Only)

Batch 0020080
Sequence 0B04047(A0A1011-04,05,06)

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard, OR 97223 phone 503-718-2323

Table of Contents
A0A1011
(page 2 of 2)

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

Conventional Chemistry Parameters
Benchsheet & Analysis Sequence Data

Total Organic Carbon- Soil (5310 B)
Batch 0020128
Batch 0020270
Sequence 0B10055 (A0A1011-01,02,03,04,05,06)

Calibration Data
Sequence 0A08052 (Cal ID A0A0805) TOC6

Total Solids by SM2540G
Benchsheet Data
Batch 0020057 (A0A1011-01,02,03,04,05,06)

Balance Checksheets
Extractions January 2020
Extractions February 2020
Wet Chem February 2020

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Analytical Case Narrative

APEX LABORATORIES, LLC
6700 SW Sandburg St Tigard, OR 97223 phone 503-718-2323

Analytical Case Narrative

Client: Anchor QEA, LLC Date: 03/06/2020
Project: Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A0A1011

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

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Analytical Report

Apex Laboratories, LLC

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

Thursday, February 27, 2020

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

RE: A0A1011 - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores - [none]

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

Enclosed are the results of analyses for work order A0A1011, which was received by the laboratory on 10/24/2019 at 10:10:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-057SC-A-06-07-191023	A0A1011-01	Sediment	10/23/19 13:01	10/24/19 10:10
PDI-057SC-A-07-08-191023	A0A1011-02	Sediment	10/23/19 13:01	10/24/19 10:10
PDI-057SC-A-08-09-191023	A0A1011-03	Sediment	10/23/19 13:01	10/24/19 10:10
PDI-062SC-A-08-09-191023	A0A1011-04	Sediment	10/23/19 09:33	10/24/19 10:10
PDI-062SC-A-09-10-191023	A0A1011-05	Sediment	10/23/19 09:33	10/24/19 10:10
PDI-062SC-A-10-11-191023	A0A1011-06	Sediment	10/23/19 09:33	10/24/19 10:10

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-06-07-191023 (A0A1011-01)				**Matrix: Sediment**		**Batch: 0020004**		**C-07**
Aroclor 1016	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1221	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1232	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1242	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1248	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1254	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1260	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1262	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Aroclor 1268	ND	1.18	2.35	ug/kg dry	1	02/07/20 09:42	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 79 %*		*Limits: 43-120 %*	*1*	*02/07/20 09:42*	*EPA 8082A*	
PDI-057SC-A-07-08-191023 (A0A1011-02)				**Matrix: Sediment**		**Batch: 0020004**		**C-07**
Aroclor 1016	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1221	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1232	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1242	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1248	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1254	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1260	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1262	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Aroclor 1268	ND	1.18	2.34	ug/kg dry	1	02/07/20 10:17	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 69 %*		*Limits: 43-120 %*	*1*	*02/07/20 10:17*	*EPA 8082A*	
PDI-057SC-A-08-09-191023 (A0A1011-03)				**Matrix: Sediment**		**Batch: 0020004**		**C-07**
Aroclor 1016	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1221	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1232	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1242	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1248	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1254	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1260	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1262	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	
Aroclor 1268	ND	1.10	2.19	ug/kg dry	1	02/07/20 10:53	EPA 8082A	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-08-09-191023 (A0A1011-03)				**Matrix: Sediment**		**Batch: 0020004**		**C-07**
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 78 %*	*Limits: 43-120 %*	*1*	*02/07/20 10:53*	*EPA 8082A*	
PDI-062SC-A-08-09-191023 (A0A1011-04RE1)				**Matrix: Sediment**		**Batch: 0020348**		**C-07**
Aroclor 1016	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1221	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1232	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1242	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1248	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1254	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1260	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1262	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Aroclor 1268	ND	1.06	2.10	ug/kg dry	1	02/12/20 17:17	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 60 %*	*Limits: 43-120 %*	*1*	*02/12/20 17:17*	*EPA 8082A*	
PDI-062SC-A-09-10-191023 (A0A1011-05RE1)				**Matrix: Sediment**		**Batch: 0020348**		**C-07**
Aroclor 1016	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1221	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1232	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1242	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1248	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1254	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1260	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1262	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Aroclor 1268	ND	0.821	1.63	ug/kg dry	1	02/12/20 18:28	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			*Recovery: 82 %*	*Limits: 43-120 %*	*1*	*02/12/20 18:28*	*EPA 8082A*	
PDI-062SC-A-10-11-191023 (A0A1011-06RE1)				**Matrix: Sediment**		**Batch: 0020348**		**C-07**
Aroclor 1016	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1221	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1232	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1242	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1248	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1254	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1260	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-062SC-A-10-11-191023 (A0A1011-06RE1)				**Matrix: Sediment**		**Batch: 0020348**		**C-07**
Aroclor 1262	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Aroclor 1268	ND	0.822	1.63	ug/kg dry	1	02/12/20 19:03	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 87 %*	*Limits: 43-120 %*		*1*	*02/12/20 19:03*	*EPA 8082A*	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-06-07-191023 (A0A1011-01RE1)				**Matrix: Sediment**		**Batch: 0020205**		**C-05, H-08, R-04**
2,4'-DDD	ND	6.70	6.70	ug/kg dry	2	02/21/20 23:44	EPA 8081B	
2,4'-DDE	ND	3.35	6.70	ug/kg dry	2	02/21/20 23:44	EPA 8081B	
2,4'-DDT	ND	3.35	6.70	ug/kg dry	2	02/21/20 23:44	EPA 8081B	
4,4'-DDD	ND	3.35	6.70	ug/kg dry	2	02/21/20 23:44	EPA 8081B	
4,4'-DDE	ND	3.35	6.70	ug/kg dry	2	02/21/20 23:44	EPA 8081B	
4,4'-DDT	ND	3.35	6.70	ug/kg dry	2	02/21/20 23:44	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 67 %*	*Limits: 42-129 %*	*2*	*02/21/20 23:44*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*93 %*	*55-130 %*	*2*	*02/21/20 23:44*	*EPA 8081B*	
PDI-057SC-A-07-08-191023 (A0A1011-02RE1)				**Matrix: Sediment**		**Batch: 0020205**		**C-05, H-08, R-04**
2,4'-DDD	ND	3.48	6.96	ug/kg dry	2	02/20/20 23:06	EPA 8081B	
2,4'-DDE	ND	3.48	6.96	ug/kg dry	2	02/20/20 23:06	EPA 8081B	
2,4'-DDT	ND	3.48	6.96	ug/kg dry	2	02/20/20 23:06	EPA 8081B	
4,4'-DDD	ND	3.48	6.96	ug/kg dry	2	02/20/20 23:06	EPA 8081B	
4,4'-DDE	ND	3.48	6.96	ug/kg dry	2	02/20/20 23:06	EPA 8081B	
4,4'-DDT	ND	3.48	6.96	ug/kg dry	2	02/20/20 23:06	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 75 %*	*Limits: 42-129 %*	*2*	*02/20/20 23:06*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*104 %*	*55-130 %*	*2*	*02/20/20 23:06*	*EPA 8081B*	
PDI-057SC-A-08-09-191023 (A0A1011-03RE2)				**Matrix: Sediment**		**Batch: 0020105**		**C-05, H-08, R-04**
2,4'-DDD	ND	3.10	6.20	ug/kg dry	2	02/20/20 14:23	EPA 8081B	
2,4'-DDE	ND	3.10	6.20	ug/kg dry	2	02/20/20 14:23	EPA 8081B	
2,4'-DDT	ND	3.10	6.20	ug/kg dry	2	02/20/20 14:23	EPA 8081B	
4,4'-DDD	ND	3.10	6.20	ug/kg dry	2	02/20/20 14:23	EPA 8081B	
4,4'-DDE	ND	3.10	6.20	ug/kg dry	2	02/20/20 14:23	EPA 8081B	
4,4'-DDT	ND	3.10	6.20	ug/kg dry	2	02/20/20 14:23	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 52 %*	*Limits: 42-129 %*	*2*	*02/20/20 14:23*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*98 %*	*55-130 %*	*2*	*02/20/20 14:23*	*EPA 8081B*	
PDI-062SC-A-08-09-191023 (A0A1011-04RE1)				**Matrix: Sediment**		**Batch: 0020105**		**C-05, H-08, R-04**
2,4'-DDD	ND	15.8	31.7	ug/kg dry	5	02/14/20 23:33	EPA 8081B	
2,4'-DDE	ND	15.8	31.7	ug/kg dry	5	02/14/20 23:33	EPA 8081B	
2,4'-DDT	ND	15.8	31.7	ug/kg dry	5	02/14/20 23:33	EPA 8081B	
4,4'-DDD	ND	15.8	31.7	ug/kg dry	5	02/14/20 23:33	EPA 8081B	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-062SC-A-08-09-191023 (A0A1011-04RE1)				**Matrix: Sediment**		**Batch: 0020105**		**C-05, H-08, R-04**
4,4'-DDE	ND	15.8	31.7	ug/kg dry	5	02/14/20 23:33	EPA 8081B	
4,4'-DDT	ND	15.8	31.7	ug/kg dry	5	02/14/20 23:33	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 88 %*	*Limits: 42-129 %*	*5*	*02/14/20 23:33*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*124 %*	*55-130 %*	*5*	*02/14/20 23:33*	*EPA 8081B*	
PDI-062SC-A-09-10-191023 (A0A1011-05RE1)				**Matrix: Sediment**		**Batch: 0020105**		**C-05, H-08**
2,4'-DDD	ND	1.24	2.48	ug/kg dry	1	02/15/20 00:11	EPA 8081B	
2,4'-DDE	ND	1.24	2.48	ug/kg dry	1	02/15/20 00:11	EPA 8081B	
2,4'-DDT	ND	1.24	2.48	ug/kg dry	1	02/15/20 00:11	EPA 8081B	
4,4'-DDD	ND	1.24	2.48	ug/kg dry	1	02/15/20 00:11	EPA 8081B	
4,4'-DDE	ND	1.24	2.48	ug/kg dry	1	02/15/20 00:11	EPA 8081B	
4,4'-DDT	ND	1.24	2.48	ug/kg dry	1	02/15/20 00:11	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 64 %*	*Limits: 42-129 %*	*1*	*02/15/20 00:11*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*114 %*	*55-130 %*	*1*	*02/15/20 00:11*	*EPA 8081B*	
PDI-062SC-A-10-11-191023 (A0A1011-06RE1)				**Matrix: Sediment**		**Batch: 0020105**		**C-05, H-08**
2,4'-DDD	ND	1.21	2.42	ug/kg dry	1	02/14/20 17:10	EPA 8081B	
2,4'-DDE	ND	1.21	2.42	ug/kg dry	1	02/14/20 17:10	EPA 8081B	
2,4'-DDT	ND	1.21	2.42	ug/kg dry	1	02/14/20 17:10	EPA 8081B	
4,4'-DDD	ND	1.21	2.42	ug/kg dry	1	02/14/20 17:10	EPA 8081B	
4,4'-DDE	ND	1.21	2.42	ug/kg dry	1	02/14/20 17:10	EPA 8081B	
4,4'-DDT	ND	1.21	2.42	ug/kg dry	1	02/14/20 17:10	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 53 %*	*Limits: 42-129 %*	*1*	*02/14/20 17:10*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*105 %*	*55-130 %*	*1*	*02/14/20 17:10*	*EPA 8081B*	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-06-07-191023 (A0A1011-01)				**Matrix: Sediment**		**Batch: 0010978**		**H-08**
Acenaphthene	**9590**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Acenaphthylene	ND	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Anthracene	**5150**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Benz(a)anthracene	**3640**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	**J**
Benzo(a)pyrene	**5330**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Benzo(b)fluoranthene	**4360**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	**J**
Benzo(k)fluoranthene	ND	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Benzo(g,h,i)perylene	**5260**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Chrysene	**5000**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Dibenz(a,h)anthracene	ND	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Fluoranthene	**17800**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Fluorene	**3960**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	**J**
Indeno(1,2,3-cd)pyrene	**4250**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	**J**
2-Methylnaphthalene	ND	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Naphthalene	**2850**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	**J**
Phenanthrene	**25800**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Pyrene	**19900**	2180	4370	ug/kg dry	1000	02/03/20 10:36	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*48 %*	*Limits: 44-115 %*	*1000*	*02/03/20 10:36*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*111 %*	*54-127 %*	*1000*	*02/03/20 10:36*	*EPA 8270D*	*S-05*
PDI-057SC-A-07-08-191023 (A0A1011-02)				**Matrix: Sediment**		**Batch: 0010978**		**H-08**
Acenaphthene	**6010**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Acenaphthylene	ND	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Anthracene	**7150**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Benz(a)anthracene	**9680**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Benzo(a)pyrene	**16700**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Benzo(b)fluoranthene	**14000**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Benzo(k)fluoranthene	**5030**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**16800**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Chrysene	**13000**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Dibenz(a,h)anthracene	ND	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Fluoranthene	**36300**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Fluorene	**2980**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	**J**

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-07-08-191023 (A0A1011-02)				**Matrix: Sediment**		**Batch: 0010978**		**H-08**
Indeno(1,2,3-cd)pyrene	**13700**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
2-Methylnaphthalene	ND	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Naphthalene	**2610**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	**J**
Phenanthrene	**30900**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Pyrene	**39000**	2140	4270	ug/kg dry	1000	02/03/20 11:08	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*64 %*	*Limits: 44-115 %*	*1000*	*02/03/20 11:08*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*126 %*	*54-127 %*	*1000*	*02/03/20 11:08*	*EPA 8270D*	*S-05*
PDI-057SC-A-08-09-191023 (A0A1011-03)				**Matrix: Sediment**		**Batch: 0010978**		**H-08**
Acenaphthene	**1530**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Acenaphthylene	**385**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	**J**
Anthracene	**748**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Benz(a)anthracene	**1100**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Benzo(a)pyrene	**2280**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Benzo(b)fluoranthene	**1880**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Benzo(k)fluoranthene	**664**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**2830**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Chrysene	**1520**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Dibenz(a,h)anthracene	ND	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Fluoranthene	**6740**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Fluorene	**532**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**2000**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
2-Methylnaphthalene	**520**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Naphthalene	**1830**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	**B-02**
Phenanthrene	**5330**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Pyrene	**8030**	193	387	ug/kg dry	100	02/03/20 11:40	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*78 %*	*Limits: 44-115 %*	*100*	*02/03/20 11:40*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*80 %*	*54-127 %*	*100*	*02/03/20 11:40*	*EPA 8270D*	*S-05*
PDI-062SC-A-08-09-191023 (A0A1011-04)				**Matrix: Sediment**		**Batch: 0020080**		**H-08**
Acenaphthene	**20400**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Acenaphthylene	ND	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Anthracene	**19100**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-062SC-A-08-09-191023 (A0A1011-04)				**Matrix: Sediment**		**Batch: 0020080**		**H-08**
Benz(a)anthracene	**17200**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Benzo(a)pyrene	**26100**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Benzo(b)fluoranthene	**21500**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Benzo(k)fluoranthene	**7510**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**24000**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Chrysene	**22700**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Dibenz(a,h)anthracene	ND	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Fluoranthene	**75700**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Fluorene	**9170**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**18700**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
2-Methylnaphthalene	ND	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Naphthalene	**7480**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Phenanthrene	**75400**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Pyrene	**88900**	1970	3950	ug/kg dry	1000	02/04/20 17:21	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*130 %*	*Limits: 44-115 %*	*1000*	*02/04/20 17:21*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)			*198 %*	*54-127 %*	*1000*	*02/04/20 17:21*	*EPA 8270D*	*S-05*
PDI-062SC-A-09-10-191023 (A0A1011-05)				**Matrix: Sediment**		**Batch: 0020080**		**H-08**
Acenaphthene	**2780**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Acenaphthylene	**214**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	**J**
Anthracene	**607**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Benz(a)anthracene	**1140**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Benzo(a)pyrene	**2030**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Benzo(b)fluoranthene	**1700**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Benzo(k)fluoranthene	**548**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**2060**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Chrysene	**1550**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Dibenz(a,h)anthracene	**149**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	**J**
Fluoranthene	**5340**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Fluorene	**957**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**1590**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
2-Methylnaphthalene	**152**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	**J**
Naphthalene	**480**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-062SC-A-09-10-191023 (A0A1011-05)				**Matrix: Sediment**		**Batch: 0020080**		**H-08**
Phenanthrene	**5830**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Pyrene	**6310**	149	298	ug/kg dry	100	02/04/20 17:53	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery: 86 %*	*Limits: 44-115 %*		*100*	*02/04/20 17:53*	*EPA 8270D*	*S-05*
p-Terphenyl-d14 (Surr)		*93 %*	*54-127 %*		*100*	*02/04/20 17:53*	*EPA 8270D*	*S-05*
PDI-062SC-A-10-11-191023 (A0A1011-06)				**Matrix: Sediment**		**Batch: 0020080**		**H-08**
Acenaphthene	**84.8**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Acenaphthylene	**4.15**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Anthracene	**4.73**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Benz(a)anthracene	**2.99**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Benzo(a)pyrene	**4.98**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Benzo(b)fluoranthene	**4.57**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Benzo(k)fluoranthene	**1.53**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	**J**
Benzo(g,h,i)perylene	**5.67**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Chrysene	**4.64**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Dibenz(a,h)anthracene	ND	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Fluoranthene	**21.7**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Fluorene	**29.1**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**4.71**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
2-Methylnaphthalene	**26.3**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Naphthalene	**25.1**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Phenanthrene	**103**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Pyrene	**32.5**	1.49	2.97	ug/kg dry	1	02/04/20 19:28	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery: 84 %*	*Limits: 44-115 %*		*1*	*02/04/20 19:28*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)		*91 %*	*54-127 %*		*1*	*02/04/20 19:28*	*EPA 8270D*	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-06-07-191023 (A0A1011-01)				**Matrix: Sediment**				
Batch: 0020270								
Total Organic Carbon	**2.7**	0.020	0.020	% by Weight	1	02/11/20 04:59	SM 5310 B MOD	**H-08**
PDI-057SC-A-07-08-191023 (A0A1011-02)				**Matrix: Sediment**				
Batch: 0020270								
Total Organic Carbon	**2.7**	0.020	0.020	% by Weight	1	02/11/20 05:20	SM 5310 B MOD	**H-08**
PDI-057SC-A-08-09-191023 (A0A1011-03)				**Matrix: Sediment**				
Batch: 0020270								
Total Organic Carbon	**2.1**	0.020	0.020	% by Weight	1	02/11/20 05:31	SM 5310 B MOD	**H-08**
PDI-062SC-A-08-09-191023 (A0A1011-04)				**Matrix: Sediment**				
Batch: 0020128								
Total Organic Carbon	**4.0**	0.020	0.020	% by Weight	1	02/11/20 01:22	SM 5310 B MOD	**H-08**
PDI-062SC-A-09-10-191023 (A0A1011-05)				**Matrix: Sediment**				
Batch: 0020128								
Total Organic Carbon	**0.59**	0.020	0.020	% by Weight	1	02/11/20 01:43	SM 5310 B MOD	**H-08**
PDI-062SC-A-10-11-191023 (A0A1011-06)				**Matrix: Sediment**				
Batch: 0020128								
Total Organic Carbon	**0.076**	0.020	0.020	% by Weight	1	02/11/20 01:54	SM 5310 B MOD	**H-08**

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-057SC-A-06-07-191023 (A0A1011-01)				**Matrix: Sediment**				
Batch: 0020057								
Total Solids	**56.4**	1.00	1.00	% by Weight	1	02/12/20 10:31	SM 2540 G	
PDI-057SC-A-07-08-191023 (A0A1011-02)				**Matrix: Sediment**				
Batch: 0020057								
Total Solids	**56.7**	1.00	1.00	% by Weight	1	02/12/20 10:31	SM 2540 G	
PDI-057SC-A-08-09-191023 (A0A1011-03)				**Matrix: Sediment**				
Batch: 0020057								
Total Solids	**60.2**	1.00	1.00	% by Weight	1	02/12/20 10:31	SM 2540 G	
PDI-062SC-A-08-09-191023 (A0A1011-04)				**Matrix: Sediment**				
Batch: 0020057								
Total Solids	**62.7**	1.00	1.00	% by Weight	1	02/12/20 10:31	SM 2540 G	
PDI-062SC-A-09-10-191023 (A0A1011-05)				**Matrix: Sediment**				
Batch: 0020057								
Total Solids	**80.0**	1.00	1.00	% by Weight	1	02/12/20 10:31	SM 2540 G	
PDI-062SC-A-10-11-191023 (A0A1011-06)				**Matrix: Sediment**				
Batch: 0020057								
Total Solids	**80.8**	1.00	1.00	% by Weight	1	02/12/20 10:31	SM 2540 G	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0A1011 - 02 27 20 1741

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020004 - EPA 3546							**Sediment**					
Blank (0020004-BLK1)			Prepared: 02/03/20 07:08		Analyzed: 02/06/20 08:32							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 91 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0020004-BS1)			Prepared: 02/03/20 07:08		Analyzed: 02/06/20 08:50							**C-07**
EPA 8082A												
Aroclor 1016	50.3	0.670	1.33	ug/kg wet	1	83.3	---	60	47-134%	---	---	
Aroclor 1260	68.5	0.670	1.33	ug/kg wet	1	83.3	---	82	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 91 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Duplicate (0020004-DUP1)			Prepared: 02/03/20 07:08		Analyzed: 02/06/20 10:18							**C-07**
QC Source Sample: Non-SDG (A0A0991-02)												
Aroclor 1016	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1262	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1268	ND	0.733	1.45	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 64 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike (0020004-MS1)			Prepared: 02/03/20 07:08		Analyzed: 02/07/20 11:28							**C-07**
QC Source Sample: PDI-057SC-A-08-09-191023 (A0A1011-03)												

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020004 - EPA 3546							**Sediment**					
Matrix Spike (0020004-MS1)			Prepared: 02/03/20 07:08		Analyzed: 02/07/20 11:28							**C-07**
QC Source Sample: PDI-057SC-A-08-09-191023 (A0A1011-03)												
EPA 8082A												
Aroclor 1016	83.4	1.10	2.19	ug/kg dry	1	137	ND	61	47-134%	---	---	
Aroclor 1260	97.9	1.10	2.19	ug/kg dry	1	137	ND	71	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 78 %*		*Limits: 43-120 %*		*Dilution: 1x*					
Matrix Spike Dup (0020004-MSD1)			Prepared: 02/03/20 07:08		Analyzed: 02/07/20 12:03							**C-07**
QC Source Sample: PDI-057SC-A-08-09-191023 (A0A1011-03)												
EPA 8082A												
Aroclor 1016	82.7	1.10	2.19	ug/kg dry	1	137	ND	60	47-134%	0.8	30%	
Aroclor 1260	102	1.10	2.19	ug/kg dry	1	137	ND	74	53-140%	4	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 75 %*		*Limits: 43-120 %*		*Dilution: 1x*					

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020348 - EPA 3546							**Sediment**					
Blank (0020348-BLK1)			Prepared: 02/12/20 07:03		Analyzed: 02/12/20 16:42							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 94 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0020348-BS1)			Prepared: 02/12/20 07:03		Analyzed: 02/12/20 16:59							**C-07**
EPA 8082A												
Aroclor 1016	58.0	0.670	1.33	ug/kg wet	1	83.3	---	70	47-134%	---	---	
Aroclor 1260	76.4	0.670	1.33	ug/kg wet	1	83.3	---	92	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 95 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Duplicate (0020348-DUP1)			Prepared: 02/12/20 07:03		Analyzed: 02/12/20 17:52							**C-07**
QC Source Sample: PDI-062SC-A-08-09-191023 (A0A1011-04RE1)												
EPA 8082A												
Aroclor 1016	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1262	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1268	ND	1.06	2.10	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 58 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike (0020348-MS1)			Prepared: 02/12/20 07:03		Analyzed: 02/12/20 19:38							**C-07**

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020348 - EPA 3546							**Sediment**					
Matrix Spike (0020348-MS1)			Prepared: 02/12/20 07:03		Analyzed: 02/12/20 19:38							**C-07**
QC Source Sample: PDI-062SC-A-10-11-191023 (A0A1011-06RE1)												
EPA 8082A												
Aroclor 1016	68.1	0.823	1.63	ug/kg dry	1	102	ND	67	47-134%	---	---	
Aroclor 1260	89.3	0.823	1.63	ug/kg dry	1	102	ND	87	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 93 %*		*Limits: 43-120 %*				*Dilution: 1x*			

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020105 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (0020105-BLK1)			Prepared: 02/04/20 10:33	Analyzed: 02/14/20 16:37								**C-05**
EPA 8081B												
2,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 64 %*	*Limits: 42-129 %*				*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*110 %*	*55-130 %*				*"*				
LCS (0020105-BS1)			Prepared: 02/04/20 10:33	Analyzed: 02/14/20 16:53								**C-05**
EPA 8081B												
2,4'-DDD	47.1	1.00	2.00	ug/kg wet	1	50.0	---	94	50-150%	---	---	
2,4'-DDE	42.0	1.00	2.00	ug/kg wet	1	50.0	---	84	50-150%	---	---	
2,4'-DDT	44.9	1.00	2.00	ug/kg wet	1	50.0	---	90	50-150%	---	---	
4,4'-DDD	54.2	1.00	2.00	ug/kg wet	1	50.0	---	108	50-150%	---	---	
4,4'-DDE	46.7	1.00	2.00	ug/kg wet	1	50.0	---	93	50-150%	---	---	
4,4'-DDT	49.6	1.00	2.00	ug/kg wet	1	50.0	---	99	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 61 %*	*Limits: 42-129 %*				*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*107 %*	*55-130 %*				*"*				
Duplicate (0020105-DUP1)			Prepared: 02/04/20 10:33	Analyzed: 02/14/20 22:56								**C-05, H-08, R-04**
QC Source Sample: PDI-057SC-A-08-09-191023 (A0A1011-03RE2)												
EPA 8081B												
2,4'-DDD	ND	3.10	6.19	ug/kg dry	2	---	ND	---	---	---	30%	
2,4'-DDE	ND	3.10	6.19	ug/kg dry	2	---	ND	---	---	---	30%	
2,4'-DDT	ND	3.10	6.19	ug/kg dry	2	---	ND	---	---	---	30%	
4,4'-DDD	ND	3.10	6.19	ug/kg dry	2	---	ND	---	---	---	30%	
4,4'-DDE	ND	3.10	6.19	ug/kg dry	2	---	ND	---	---	---	30%	
4,4'-DDT	ND	3.10	6.19	ug/kg dry	2	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*	*Limits: 42-129 %*				*Dilution: 2x*				
Decachlorobiphenyl (Surr)			*94 %*	*55-130 %*				*"*				

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020105 - EPA 3546/3640A (GPC)							**Sediment**					
Matrix Spike (0020105-MS1)			Prepared: 02/04/20 10:33		Analyzed: 02/14/20 17:27							**C-05, H-08**
QC Source Sample: PDI-062SC-A-10-11-191023 (A0A1011-06RE1)												
EPA 8081B												
2,4'-DDD	59.8	1.21	2.41	ug/kg dry	1	60.3	ND	99	50-150%	---	---	
2,4'-DDE	51.6	1.21	2.41	ug/kg dry	1	60.3	ND	86	50-150%	---	---	
2,4'-DDT	56.7	1.21	2.41	ug/kg dry	1	60.3	ND	94	50-150%	---	---	
4,4'-DDD	64.6	1.21	2.41	ug/kg dry	1	60.3	ND	107	50-150%	---	---	
4,4'-DDE	58.0	1.21	2.41	ug/kg dry	1	60.3	ND	96	50-150%	---	---	
4,4'-DDT	61.6	1.21	2.41	ug/kg dry	1	60.3	ND	102	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 62 %*		*Limits: 42-129 %*		*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*108 %*		*55-130 %*		*"*					
Matrix Spike Dup (0020105-MSD1)			Prepared: 02/04/20 11:08		Analyzed: 02/14/20 17:44							**C-05, H-08**
QC Source Sample: PDI-062SC-A-10-11-191023 (A0A1011-06RE1)												
EPA 8081B												
2,4'-DDD	60.9	1.22	2.43	ug/kg dry	1	60.8	ND	100	50-150%	2	35%	
2,4'-DDE	52.4	1.22	2.43	ug/kg dry	1	60.8	ND	86	50-150%	2	35%	
2,4'-DDT	58.2	1.22	2.43	ug/kg dry	1	60.8	ND	96	50-150%	3	35%	
4,4'-DDD	65.4	1.22	2.43	ug/kg dry	1	60.8	ND	107	50-150%	1	30%	
4,4'-DDE	58.8	1.22	2.43	ug/kg dry	1	60.8	ND	97	50-150%	1	30%	
4,4'-DDT	62.0	1.22	2.43	ug/kg dry	1	60.8	ND	102	50-150%	0.8	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 54 %*		*Limits: 42-129 %*		*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*107 %*		*55-130 %*		*"*					

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020205 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (0020205-BLK1)			Prepared: 01/31/20 10:20		Analyzed: 02/17/20 14:56							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 70 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*106 %*		*55-130 %*			*"*				
LCS (0020205-BS1)			Prepared: 01/31/20 10:20		Analyzed: 02/17/20 15:13							**C-05**
EPA 8081B												
2,4'-DDD	44.8	1.00	2.00	ug/kg wet	1	50.0	---	90	75-130%	---	---	
2,4'-DDE	39.8	1.00	2.00	ug/kg wet	1	50.0	---	80	74-131%	---	---	
2,4'-DDT	44.4	1.00	2.00	ug/kg wet	1	50.0	---	89	64-136%	---	---	
4,4'-DDD	47.9	1.00	2.00	ug/kg wet	1	50.0	---	96	56-139%	---	---	
4,4'-DDE	44.2	1.00	2.00	ug/kg wet	1	50.0	---	88	56-134%	---	---	
4,4'-DDT	48.2	1.00	2.00	ug/kg wet	1	50.0	---	96	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 69 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*100 %*		*55-130 %*			*"*				
Duplicate (0020205-DUP1)			Prepared: 01/31/20 10:20		Analyzed: 02/20/20 22:28							**C-05, H-08, R-04**
QC Source Sample: Non-SDG (A0A0991-01RE1)												
2,4'-DDD	ND	31.0	31.0	ug/kg dry	5	---	ND	---	---	---	30%	R-02
2,4'-DDE	ND	11.1	22.1	ug/kg dry	5	---	ND	---	---	---	30%	
2,4'-DDT	ND	22.1	22.1	ug/kg dry	5	---	ND	---	---	---	30%	
4,4'-DDD	ND	28.8	28.8	ug/kg dry	5	---	ND	---	---	---	30%	R-02
4,4'-DDE	ND	11.1	22.1	ug/kg dry	5	---	ND	---	---	---	30%	
4,4'-DDT	ND	25.5	25.5	ug/kg dry	5	---	ND	---	---	---	30%	R-02
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 97 %*		*Limits: 42-129 %*			*Dilution: 5x*				
Decachlorobiphenyl (Surr)			*98 %*		*55-130 %*			*"*				
Matrix Spike (0020205-MS1)			Prepared: 01/31/20 10:20		Analyzed: 02/20/20 23:43							**C-05, H-08, R-04**

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020205 - EPA 3546/3640A (GPC)							**Sediment**					
Matrix Spike (0020205-MS1)			Prepared: 01/31/20 10:20		Analyzed: 02/20/20 23:43							**C-05, H-08, R-04**
QC Source Sample: PDI-057SC-A-07-08-191023 (A0A1011-02RE1)												
EPA 8081B												
2,4'-DDD	80.5	3.50	7.00	ug/kg dry	2	87.5	ND	92	75-130%	---	---	
2,4'-DDE	81.9	3.50	7.00	ug/kg dry	2	87.5	ND	94	74-131%	---	---	
2,4'-DDT	80.9	3.50	7.00	ug/kg dry	2	87.5	ND	92	64-136%	---	---	
4,4'-DDD	95.2	3.50	7.00	ug/kg dry	2	87.5	ND	109	56-139%	---	---	
4,4'-DDE	90.5	3.50	7.00	ug/kg dry	2	87.5	ND	103	56-134%	---	---	
4,4'-DDT	82.4	3.50	7.00	ug/kg dry	2	87.5	ND	94	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 68 %*		*Limits: 42-129 %*			*Dilution: 2x*				
Decachlorobiphenyl (Surr)			*112 %*		*55-130 %*			*"*				
Matrix Spike Dup (0020205-MSD1)			Prepared: 01/31/20 10:20		Analyzed: 02/21/20 00:21							**C-05, H-08, R-04**
QC Source Sample: PDI-057SC-A-07-08-191023 (A0A1011-02RE1)												
EPA 8081B												
2,4'-DDD	84.7	3.51	7.01	ug/kg dry	2	87.6	ND	97	75-130%	5	35%	
2,4'-DDE	80.1	3.51	7.01	ug/kg dry	2	87.6	ND	91	74-131%	2	35%	
2,4'-DDT	71.1	3.51	7.01	ug/kg dry	2	87.6	ND	81	64-136%	13	35%	
4,4'-DDD	103	3.51	7.01	ug/kg dry	2	87.6	ND	117	56-139%	8	30%	
4,4'-DDE	91.3	3.51	7.01	ug/kg dry	2	87.6	ND	104	56-134%	0.8	30%	
4,4'-DDT	75.4	3.51	7.01	ug/kg dry	2	87.6	ND	86	50-141%	9	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 80 %*		*Limits: 42-129 %*			*Dilution: 2x*				
Decachlorobiphenyl (Surr)			*109 %*		*55-130 %*			*"*				

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0010978 - EPA 3546							**Sediment**					
Blank (0010978-BLK1)			Prepared: 01/31/20 07:07		Analyzed: 01/31/20 11:51							
EPA 8270D												
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	**1.17**	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B-02, J
Phenanthrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 82 %*		*Limits: 44-115 %*			*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*80 %*		*54-127 %*			*"*				
LCS (0010978-BS1)			Prepared: 01/31/20 07:07		Analyzed: 01/31/20 12:23							
EPA 8270D												
Acenaphthene	16.0	1.25	2.50	ug/kg wet	1	20.0	---	80	40-122%	---	---	
Acenaphthylene	14.0	1.25	2.50	ug/kg wet	1	20.0	---	70	32-132%	---	---	
Anthracene	15.1	1.25	2.50	ug/kg wet	1	20.0	---	75	47-123%	---	---	
Benz(a)anthracene	14.0	1.25	2.50	ug/kg wet	1	20.0	---	70	49-126%	---	---	
Benzo(a)pyrene	14.4	1.25	2.50	ug/kg wet	1	20.0	---	72	45-129%	---	---	
Benzo(b)fluoranthene	14.4	1.25	2.50	ug/kg wet	1	20.0	---	72	45-132%	---	---	
Benzo(k)fluoranthene	14.9	1.25	2.50	ug/kg wet	1	20.0	---	74	47-132%	---	---	
Benzo(g,h,i)perylene	14.7	1.25	2.50	ug/kg wet	1	20.0	---	74	43-134%	---	---	
Chrysene	15.6	1.25	2.50	ug/kg wet	1	20.0	---	78	50-124%	---	---	
Dibenz(a,h)anthracene	14.7	1.25	2.50	ug/kg wet	1	20.0	---	74	45-134%	---	---	
Fluoranthene	16.6	1.25	2.50	ug/kg wet	1	20.0	---	83	50-127%	---	---	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0010978 - EPA 3546							**Sediment**					
LCS (0010978-BS1)			Prepared: 01/31/20 07:07		Analyzed: 01/31/20 12:23							
Fluorene	15.2	1.25	2.50	ug/kg wet	1	20.0	---	76	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	14.9	1.25	2.50	ug/kg wet	1	20.0	---	74	45-133%	---	---	
2-Methylnaphthalene	14.1	1.25	2.50	ug/kg wet	1	20.0	---	70	38-122%	---	---	
Naphthalene	18.8	1.25	2.50	ug/kg wet	1	20.0	---	94	35-123%	---	---	B-02
Phenanthrene	17.7	1.25	2.50	ug/kg wet	1	20.0	---	88	50-121%	---	---	
Pyrene	14.8	1.25	2.50	ug/kg wet	1	20.0	---	74	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 80 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*74 %*		*54-127 %*				*"*			
Duplicate (0010978-DUP1)			Prepared: 01/31/20 09:54		Analyzed: 01/31/20 15:40							**H-08**
QC Source Sample: Non-SDG (A0A0991-03)												
Acenaphthene	ND	57.8	116	ug/kg dry	40	---	63.1	---	---	***	**30%**	Q-17
Acenaphthylene	ND	57.8	116	ug/kg dry	40	---	ND	---	---	---	30%	
Anthracene	ND	57.8	116	ug/kg dry	40	---	ND	---	---	---	30%	
Benz(a)anthracene	**183**	57.8	116	ug/kg dry	40	---	268	---	---	**37**	**30%**	Q-17
Benzo(a)pyrene	**250**	57.8	116	ug/kg dry	40	---	372	---	---	**39**	**30%**	Q-17
Benzo(b)fluoranthene	**226**	57.8	116	ug/kg dry	40	---	316	---	---	**33**	**30%**	Q-17
Benzo(k)fluoranthene	**76.4**	57.8	116	ug/kg dry	40	---	105	---	---	**32**	**30%**	Q-17, J
Benzo(g,h,i)perylene	**201**	57.8	116	ug/kg dry	40	---	276	---	---	**31**	**30%**	Q-17
Chrysene	**231**	57.8	116	ug/kg dry	40	---	345	---	---	**39**	**30%**	Q-17
Dibenz(a,h)anthracene	ND	57.8	116	ug/kg dry	40	---	ND	---	---	---	30%	
Fluoranthene	**125**	57.8	116	ug/kg dry	40	---	132	---	---	6	30%	
Fluorene	ND	57.8	116	ug/kg dry	40	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	**182**	57.8	116	ug/kg dry	40	---	246	---	---	30	30%	
2-Methylnaphthalene	ND	57.8	116	ug/kg dry	40	---	ND	---	---	---	30%	
Naphthalene	**59.3**	57.8	116	ug/kg dry	40	---	83.9	---	---	**34**	**30%**	Q-17, J
Phenanthrene	**61.1**	57.8	116	ug/kg dry	40	---	66.4	---	---	8	30%	J
Pyrene	**351**	57.8	116	ug/kg dry	40	---	380	---	---	8	30%	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 68 %*		*Limits: 44-115 %*				*Dilution: 40x*			S-05
p-Terphenyl-d14 (Surr)			*65 %*		*54-127 %*				*"*			S-05
Matrix Spike (0010978-MS1)			Prepared: 01/31/20 07:07		Analyzed: 01/31/20 16:45							**H-08**
QC Source Sample: Non-SDG (A0A0991-06)												

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0A1011 - 02 27 20 1741

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0010978 - EPA 3546							**Sediment**					
Matrix Spike (0010978-MS1)				Prepared: 01/31/20 07:07		Analyzed: 01/31/20 16:45						**H-08**
QC Source Sample: Non-SDG (A0A0991-06)												
EPA 8270D												
Acenaphthene	481	160	319	ug/kg dry	100	25.6	343	**540**	**40-122%**	---	---	Q-11
Acenaphthylene	ND	160	319	ug/kg dry	100	25.6	ND		**32-132%**	---	---	Q-11
Anthracene	386	160	319	ug/kg dry	100	25.6	281	**409**	**47-123%**	---	---	Q-11
Benz(a)anthracene	431	160	319	ug/kg dry	100	25.6	357	**291**	**49-126%**	---	---	Q-11
Benzo(a)pyrene	709	160	319	ug/kg dry	100	25.6	617	**358**	**45-129%**	---	---	Q-11
Benzo(b)fluoranthene	581	160	319	ug/kg dry	100	25.6	528	**211**	**45-132%**	---	---	Q-11
Benzo(k)fluoranthene	232	160	319	ug/kg dry	100	25.6	190	**164**	**47-132%**	---	---	Q-11, J
Benzo(g,h,i)perylene	784	160	319	ug/kg dry	100	25.6	684	**390**	**43-134%**	---	---	Q-11
Chrysene	567	160	319	ug/kg dry	100	25.6	500	**263**	**50-124%**	---	---	Q-11
Dibenz(a,h)anthracene	ND	160	319	ug/kg dry	100	25.6	ND		**45-134%**	---	---	Q-11
Fluoranthene	1860	160	319	ug/kg dry	100	25.6	1690	**665**	**50-127%**	---	---	Q-11
Fluorene	237	160	319	ug/kg dry	100	25.6	ND	**928**	**43-125%**	---	---	Q-11, J
Indeno(1,2,3-cd)pyrene	591	160	319	ug/kg dry	100	25.6	518	**284**	**45-133%**	---	---	Q-11
2-Methylnaphthalene	ND	160	319	ug/kg dry	100	25.6	ND		**38-122%**	---	---	Q-11
Naphthalene	329	160	319	ug/kg dry	100	25.6	268	**241**	**35-123%**	---	---	Q-11, B-02
Phenanthrene	1790	160	319	ug/kg dry	100	25.6	1510	**1070**	**50-121%**	---	---	Q-11
Pyrene	2130	160	319	ug/kg dry	100	25.6	1990	**550**	**47-127%**	---	---	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 69 %*		*Limits: 44-115 %*		*Dilution: 100x*					S-05
p-Terphenyl-d14 (Surr)			*66 %*		*54-127 %*		*"*					S-05
Matrix Spike Dup (0010978-MSD1)				Prepared: 01/31/20 07:07		Analyzed: 01/31/20 17:18						**H-08**
QC Source Sample: Non-SDG (A0A0991-06)												
Acenaphthene	296	160	321	ug/kg dry	100	25.7	343	**-181**	**40-122%**	**47**	**30%**	Q-11, J
Acenaphthylene	ND	160	321	ug/kg dry	100	25.7	ND		**32-132%**		30%	Q-11
Anthracene	247	160	321	ug/kg dry	100	25.7	281	**-133**	**47-123%**	**44**	**30%**	Q-11, J
Benz(a)anthracene	380	160	321	ug/kg dry	100	25.7	357	93	49-126%	12	30%	Q-11
Benzo(a)pyrene	610	160	321	ug/kg dry	100	25.7	617	**-29**	**45-129%**	15	30%	Q-11
Benzo(b)fluoranthene	513	160	321	ug/kg dry	100	25.7	528	**-56**	**45-132%**	12	30%	Q-11
Benzo(k)fluoranthene	197	160	321	ug/kg dry	100	25.7	190	**27**	**47-132%**	16	30%	Q-11, J
Benzo(g,h,i)perylene	678	160	321	ug/kg dry	100	25.7	684	**-24**	**43-134%**	15	30%	Q-11
Chrysene	486	160	321	ug/kg dry	100	25.7	500	**-53**	**50-124%**	15	30%	Q-11
Dibenz(a,h)anthracene	ND	160	321	ug/kg dry	100	25.7	ND		**45-134%**		30%	Q-11

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0010978 - EPA 3546							**Sediment**					
Matrix Spike Dup (0010978-MSD1)			Prepared: 01/31/20 07:07		Analyzed: 01/31/20 17:18							**H-08**
QC Source Sample: Non-SDG (A0A0991-06)												
Fluoranthene	1440	160	321	ug/kg dry	100	25.7	1690	**-959**	**50-127%**	25	30%	Q-11
Fluorene	ND	160	321	ug/kg dry	100	25.7	ND		**43-125%**	**200**	**30%**	Q-11
Indeno(1,2,3-cd)pyrene	516	160	321	ug/kg dry	100	25.7	518	**-10**	**45-133%**	14	30%	Q-11
2-Methylnaphthalene	ND	160	321	ug/kg dry	100	25.7	ND		**38-122%**		30%	Q-11
Naphthalene	284	160	321	ug/kg dry	100	25.7	268	61	35-123%	15	30%	Q-11, J
Phenanthrene	1240	160	321	ug/kg dry	100	25.7	1510	**-1050**	**50-121%**	**36**	**30%**	Q-11
Pyrene	1760	160	321	ug/kg dry	100	25.7	1990	**-892**	**47-127%**	19	30%	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 70 %*		*Limits: 44-115 %*		*Dilution: 100x*					S-05
p-Terphenyl-d14 (Surr)			*62 %*		*54-127 %*		*"*					S-05

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0A1011 - 02 27 20 1741

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020080 - EPA 3546							**Sediment**					
Blank (0020080-BLK1)			Prepared: 02/04/20 11:07 Analyzed: 02/04/20 15:14									
EPA 8270D												
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	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 84 %*		*Limits: 44-115 %*			*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*86 %*		*54-127 %*			*"*				
LCS (0020080-BS1)			Prepared: 02/04/20 11:07 Analyzed: 02/04/20 15:46									
EPA 8270D												
Acenaphthene	17.4	1.25	2.50	ug/kg wet	1	20.0	---	87	40-122%	---	---	
Acenaphthylene	16.7	1.25	2.50	ug/kg wet	1	20.0	---	83	32-132%	---	---	
Anthracene	16.6	1.25	2.50	ug/kg wet	1	20.0	---	83	47-123%	---	---	
Benz(a)anthracene	16.4	1.25	2.50	ug/kg wet	1	20.0	---	82	49-126%	---	---	
Benzo(a)pyrene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	85	45-129%	---	---	
Benzo(b)fluoranthene	17.2	1.25	2.50	ug/kg wet	1	20.0	---	86	45-132%	---	---	
Benzo(k)fluoranthene	17.0	1.25	2.50	ug/kg wet	1	20.0	---	85	47-132%	---	---	
Benzo(g,h,i)perylene	16.5	1.25	2.50	ug/kg wet	1	20.0	---	83	43-134%	---	---	
Chrysene	17.5	1.25	2.50	ug/kg wet	1	20.0	---	88	50-124%	---	---	
Dibenz(a,h)anthracene	16.7	1.25	2.50	ug/kg wet	1	20.0	---	83	45-134%	---	---	
Fluoranthene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	92	50-127%	---	---	

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020080 - EPA 3546							**Sediment**					
LCS (0020080-BS1)			Prepared: 02/04/20 11:07		Analyzed: 02/04/20 15:46							
Fluorene	17.0	1.25	2.50	ug/kg wet	1	20.0	---	85	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	16.3	1.25	2.50	ug/kg wet	1	20.0	---	82	45-133%	---	---	
2-Methylnaphthalene	15.5	1.25	2.50	ug/kg wet	1	20.0	---	77	38-122%	---	---	
Naphthalene	18.2	1.25	2.50	ug/kg wet	1	20.0	---	91	35-123%	---	---	
Phenanthrene	17.6	1.25	2.50	ug/kg wet	1	20.0	---	88	50-121%	---	---	
Pyrene	18.0	1.25	2.50	ug/kg wet	1	20.0	---	90	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 89 %*		*Limits: 44-115 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*88 %*		*54-127 %*				*"*			
Duplicate (0020080-DUP1)			Prepared: 02/04/20 11:07		Analyzed: 02/04/20 16:49							**H-08**
QC Source Sample: Non-SDG (A0A0996-01RE2)												
Acenaphthene	**9.11**	4.84	9.67	ug/kg wet	4	---	8.93	---	---	2	30%	J
Acenaphthylene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Anthracene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Chrysene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Fluoranthene	**7.19**	4.84	9.67	ug/kg wet	4	---	7.07	---	---	2	30%	J
Fluorene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	4.84	9.67	ug/kg wet	4	---	ND	---	---	---	30%	
2-Methylnaphthalene	**17.4**	4.84	9.67	ug/kg wet	4	---	15.6	---	---	11	30%	
Naphthalene	**218**	4.84	9.67	ug/kg wet	4	---	186	---	---	16	30%	
Phenanthrene	**14.3**	4.84	9.67	ug/kg wet	4	---	14.7	---	---	3	30%	
Pyrene	**7.42**	4.84	9.67	ug/kg wet	4	---	7.73	---	---	4	30%	J
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 83 %*		*Limits: 44-115 %*				*Dilution: 4x*			
p-Terphenyl-d14 (Surr)			*83 %*		*54-127 %*				*"*			
Matrix Spike (0020080-MS1)			Prepared: 02/04/20 11:07		Analyzed: 02/04/20 18:24							**H-08**
QC Source Sample: PDI-062SC-A-09-10-191023 (A0A1011-05)												

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020080 - EPA 3546							**Sediment**					
Matrix Spike (0020080-MS1)			Prepared: 02/04/20 11:07		Analyzed: 02/04/20 18:24							**H-08**
QC Source Sample: PDI-062SC-A-09-10-191023 (A0A1011-05)												
EPA 8270D												
Acenaphthene	2650	149	298	ug/kg dry	100	23.8	2780	**-534**	**40-122%**	---	---	Q-11
Acenaphthylene	214	149	298	ug/kg dry	100	23.8	214	**-0.3**	**32-132%**	---	---	Q-11, J
Anthracene	470	149	298	ug/kg dry	100	23.8	607	**-573**	**47-123%**	---	---	Q-11
Benz(a)anthracene	746	149	298	ug/kg dry	100	23.8	1140	**-1650**	**49-126%**	---	---	Q-11
Benzo(a)pyrene	1160	149	298	ug/kg dry	100	23.8	2030	**-3650**	**45-129%**	---	---	Q-11
Benzo(b)fluoranthene	973	149	298	ug/kg dry	100	23.8	1700	**-3050**	**45-132%**	---	---	Q-11
Benzo(k)fluoranthene	355	149	298	ug/kg dry	100	23.8	548	**-809**	**47-132%**	---	---	Q-11
Benzo(g,h,i)perylene	1060	149	298	ug/kg dry	100	23.8	2060	**-4210**	**43-134%**	---	---	Q-11
Chrysene	954	149	298	ug/kg dry	100	23.8	1550	**-2480**	**50-124%**	---	---	Q-11
Dibenz(a,h)anthracene	ND	149	298	ug/kg dry	100	23.8	ND		**45-134%**	---	---	Q-11
Fluoranthene	4020	149	298	ug/kg dry	100	23.8	5340	**-5560**	**50-127%**	---	---	Q-11
Fluorene	986	149	298	ug/kg dry	100	23.8	957	122	43-125%	---	---	Q-11
Indeno(1,2,3-cd)pyrene	845	149	298	ug/kg dry	100	23.8	1590	**-3110**	**45-133%**	---	---	Q-11
2-Methylnaphthalene	180	149	298	ug/kg dry	100	23.8	152	117	38-122%	---	---	Q-11, J
Naphthalene	610	149	298	ug/kg dry	100	23.8	480	**546**	**35-123%**	---	---	Q-11
Phenanthrene	5400	149	298	ug/kg dry	100	23.8	5830	**-1800**	**50-121%**	---	---	Q-11
Pyrene	4630	149	298	ug/kg dry	100	23.8	6310	**-7070**	**47-127%**	---	---	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 87 %*		*Limits: 44-115 %*		*Dilution: 100x*					S-05
p-Terphenyl-d14 (Surr)			*90 %*		*54-127 %*		*"*					S-05
Matrix Spike Dup (0020080-MSD1)			Prepared: 02/04/20 11:07		Analyzed: 02/04/20 18:56							**H-08**
QC Source Sample: PDI-062SC-A-09-10-191023 (A0A1011-05)												
EPA 8270D												
Acenaphthene	1740	149	299	ug/kg dry	100	23.9	2780	**-4330**	**40-122%**	**41**	**30%**	Q-11
Acenaphthylene	164	149	299	ug/kg dry	100	23.9	214	**-208**	**32-132%**	26	30%	Q-11, J
Anthracene	373	149	299	ug/kg dry	100	23.9	607	**-977**	**47-123%**	23	30%	Q-11
Benz(a)anthracene	567	149	299	ug/kg dry	100	23.9	1140	**-2400**	**49-126%**	27	30%	Q-11
Benzo(a)pyrene	855	149	299	ug/kg dry	100	23.9	2030	**-4930**	**45-129%**	**31**	**30%**	Q-11
Benzo(b)fluoranthene	738	149	299	ug/kg dry	100	23.9	1700	**-4020**	**45-132%**	27	30%	Q-11
Benzo(k)fluoranthene	250	149	299	ug/kg dry	100	23.9	548	**-1250**	**47-132%**	**35**	**30%**	Q-11, J
Benzo(g,h,i)perylene	787	149	299	ug/kg dry	100	23.9	2060	**-5340**	**43-134%**	30	30%	Q-11
Chrysene	757	149	299	ug/kg dry	100	23.9	1550	**-3300**	**50-124%**	23	30%	Q-11

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020080 - EPA 3546							**Sediment**					
Matrix Spike Dup (0020080-MSD1)			Prepared: 02/04/20 11:07		Analyzed: 02/04/20 18:56							**H-08**
QC Source Sample: PDI-062SC-A-09-10-191023 (A0A1011-05)												
Dibenz(a,h)anthracene	ND	149	299	ug/kg dry	100	23.9	ND		**45-134%**		30%	Q-11
Fluoranthene	3420	149	299	ug/kg dry	100	23.9	5340	**-8030**	**50-127%**	16	30%	Q-11
Fluorene	664	149	299	ug/kg dry	100	23.9	957	**-1220**	**43-125%**	**39**	**30%**	Q-11
Indeno(1,2,3-cd)pyrene	629	149	299	ug/kg dry	100	23.9	1590	**-4010**	**45-133%**	29	30%	Q-11
2-Methylnaphthalene	ND	149	299	ug/kg dry	100	23.9	152	**-634**	**38-122%**	**200**	**30%**	Q-11
Naphthalene	410	149	299	ug/kg dry	100	23.9	480	**-292**	**35-123%**	**39**	**30%**	Q-11
Phenanthrene	4500	149	299	ug/kg dry	100	23.9	5830	**-5520**	**50-121%**	18	30%	Q-11
Pyrene	3920	149	299	ug/kg dry	100	23.9	6310	**-10000**	**47-127%**	17	30%	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 63 %*		*Limits: 44-115 %*		*Dilution: 100x*					S-05
p-Terphenyl-d14 (Surr)			*83 %*		*54-127 %*		*"*					S-05

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Demand Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020128 - PSEP-5310B TOC							**Sediment**					
Blank (0020128-BLK1)			Prepared: 02/05/20 09:26		Analyzed: 02/11/20 00:28							
SM 5310 B MOD												
Total Organic Carbon	ND	0.020	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (0020128-BS1)			Prepared: 02/05/20 09:26		Analyzed: 02/11/20 00:39							
SM 5310 B MOD												
Total Organic Carbon	9900			mg/kg	1	10000	---	99	90-110%	---	---	
Duplicate (0020128-DUP1)			Prepared: 02/05/20 09:26		Analyzed: 02/11/20 01:00							
QC Source Sample: Non-SDG (A0A1010-01)												
Total Organic Carbon	**0.30**	0.020	0.020	% by Weight	1	---	0.30	---	---	1	20%	H-08
Duplicate (0020128-DUP2)			Prepared: 02/05/20 09:26		Analyzed: 02/11/20 01:11							
QC Source Sample: Non-SDG (A0A1010-01)												
Total Organic Carbon	**0.35**	0.020	0.020	% by Weight	1	---	0.30	---	---	17	20%	H-08
Duplicate (0020128-DUP3)			Prepared: 02/05/20 09:26		Analyzed: 02/11/20 01:33							
QC Source Sample: PDI-062SC-A-08-09-191023 (A0A1011-04)												
SM 5310 B MOD												
Total Organic Carbon	**4.0**	0.020	0.020	% by Weight	1	---	4.0	---	---	0.009	20%	H-08

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Demand Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020270 - PSEP-5310B TOC							**Sediment**					
Blank (0020270-BLK1)			Prepared: 02/08/20 09:40		Analyzed: 02/11/20 03:32							
SM 5310 B MOD												
Total Organic Carbon	ND	0.020	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (0020270-BS1)			Prepared: 02/08/20 09:40		Analyzed: 02/11/20 03:43							
SM 5310 B MOD												
Total Organic Carbon	9900			mg/kg	1	10000	---	99	90-110%	---	---	
Duplicate (0020270-DUP1)			Prepared: 02/08/20 09:40		Analyzed: 02/11/20 04:26							
QC Source Sample: Non-SDG (A0A1002-01)												
Total Organic Carbon	**1.4**	0.020	0.020	% by Weight	1	---	1.5	---	---	4	20%	H-08
Duplicate (0020270-DUP2)			Prepared: 02/08/20 09:40		Analyzed: 02/11/20 04:37							
QC Source Sample: Non-SDG (A0A1002-01)												
Total Organic Carbon	**2.1**	0.020	0.020	% by Weight	1	---	1.5	---	---	**31**	**20%**	H-08, Q-04
Duplicate (0020270-DUP3)			Prepared: 02/08/20 09:40		Analyzed: 02/11/20 05:10							
QC Source Sample: PDI-057SC-A-06-07-191023 (A0A1011-01)												
SM 5310 B MOD												
Total Organic Carbon	**3.1**	0.020	0.020	% by Weight	1	---	2.7	---	---	15	20%	H-08

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020057 - Total Solids (SM2540G/PSEP)							**Sediment**					
Duplicate (0020057-DUP1)			Prepared: 02/03/20 16:32		Analyzed: 02/12/20 10:31							
QC Source Sample: PDI-057SC-A-06-07-191023 (A0A1011-01)												
SM 2540 G												
Total Solids	**56.6**	1.00	1.00	% by Weight	1	---	56.4	---	---	0.5	10%	

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.

Darwin Thomas, Business Development Director

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020004							
A0A1011-01	Sediment	EPA 8082A	10/23/19 13:01	02/03/20 07:08	30.18g/2mL	30g/2mL	0.99
A0A1011-02	Sediment	EPA 8082A	10/23/19 13:01	02/03/20 07:08	30.09g/2mL	30g/2mL	1.00
A0A1011-03	Sediment	EPA 8082A	10/23/19 13:01	02/03/20 07:08	30.26g/2mL	30g/2mL	0.99
Batch: 0020348							
A0A1011-04RE1	Sediment	EPA 8082A	10/23/19 09:33	02/12/20 07:03	30.29g/2mL	30g/2mL	0.99
A0A1011-05RE1	Sediment	EPA 8082A	10/23/19 09:33	02/12/20 07:03	30.61g/2mL	30g/2mL	0.98
A0A1011-06RE1	Sediment	EPA 8082A	10/23/19 09:33	02/12/20 07:03	30.25g/2mL	30g/2mL	0.99

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020105							
A0A1011-03RE2	Sediment	EPA 8081B	10/23/19 13:01	02/04/20 10:33	10.71g/10mL	10g/5mL	1.87
A0A1011-04RE1	Sediment	EPA 8081B	10/23/19 09:33	02/04/20 10:33	10.08g/20mL	10g/5mL	3.97
A0A1011-05RE1	Sediment	EPA 8081B	10/23/19 09:33	02/04/20 10:33	10.08g/10mL	10g/5mL	1.98
A0A1011-06RE1	Sediment	EPA 8081B	10/23/19 09:33	02/04/20 10:33	10.21g/10mL	10g/5mL	1.96
Batch: 0020205							
A0A1011-01RE1	Sediment	EPA 8081B	10/23/19 13:01	01/31/20 10:20	10.59g/10mL	10g/5mL	1.89
A0A1011-02RE1	Sediment	EPA 8081B	10/23/19 13:01	01/31/20 10:20	10.15g/10mL	10g/5mL	1.97

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

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0010978							
A0A1011-01	Sediment	EPA 8270D	10/23/19 13:01	01/31/20 07:07	10.16g/5mL	10g/5mL	0.98
A0A1011-02	Sediment	EPA 8270D	10/23/19 13:01	01/31/20 07:07	10.33g/5mL	10g/5mL	0.97
A0A1011-03	Sediment	EPA 8270D	10/23/19 13:01	01/31/20 07:07	10.73g/5mL	10g/5mL	0.93
Batch: 0020080							
A0A1011-04	Sediment	EPA 8270D	10/23/19 09:33	02/04/20 10:35	10.11g/5mL	10g/5mL	0.99
A0A1011-05	Sediment	EPA 8270D	10/23/19 09:33	02/04/20 10:35	10.5g/5mL	10g/5mL	0.95
A0A1011-06	Sediment	EPA 8270D	10/23/19 09:33	02/04/20 10:35	10.4g/5mL	10g/5mL	0.96

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

SAMPLE PREPARATION INFORMATION

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020128							
A0A1011-04	Sediment	SM 5310 B MOD	10/23/19 09:33	02/05/20 09:26			NA
A0A1011-05	Sediment	SM 5310 B MOD	10/23/19 09:33	02/05/20 09:26			NA
A0A1011-06	Sediment	SM 5310 B MOD	10/23/19 09:33	02/05/20 09:26			NA
Batch: 0020270							
A0A1011-01	Sediment	SM 5310 B MOD	10/23/19 13:01	02/08/20 09:40			NA
A0A1011-02	Sediment	SM 5310 B MOD	10/23/19 13:01	02/08/20 09:40			NA
A0A1011-03	Sediment	SM 5310 B MOD	10/23/19 13:01	02/08/20 09:40			NA

Solid and Moisture Determinations

Prep: Total Solids (SM2540G/PSEP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020057							
A0A1011-01	Sediment	SM 2540 G	10/23/19 13:01	02/03/20 16:32			NA
A0A1011-02	Sediment	SM 2540 G	10/23/19 13:01	02/03/20 16:32			NA
A0A1011-03	Sediment	SM 2540 G	10/23/19 13:01	02/03/20 16:32			NA
A0A1011-04	Sediment	SM 2540 G	10/23/19 09:33	02/03/20 16:32			NA
A0A1011-05	Sediment	SM 2540 G	10/23/19 09:33	02/03/20 16:32			NA
A0A1011-06	Sediment	SM 2540 G	10/23/19 09:33	02/03/20 16:32			NA

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

QUALIFIER DEFINITIONS

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

Apex Laboratories

B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
H-08	Sample hold time extended by freezing at -18 degrees C. Total time at 4 degrees C was less than the standard hold time.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-11	Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
Q-17	RPD between original and duplicate sample is outside of established control limits.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

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 ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

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

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**	**Report ID:**
Portland, OR 97219	Project Manager:	**Ryan Barth**	**A0A1011 - 02 27 20 1741**

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

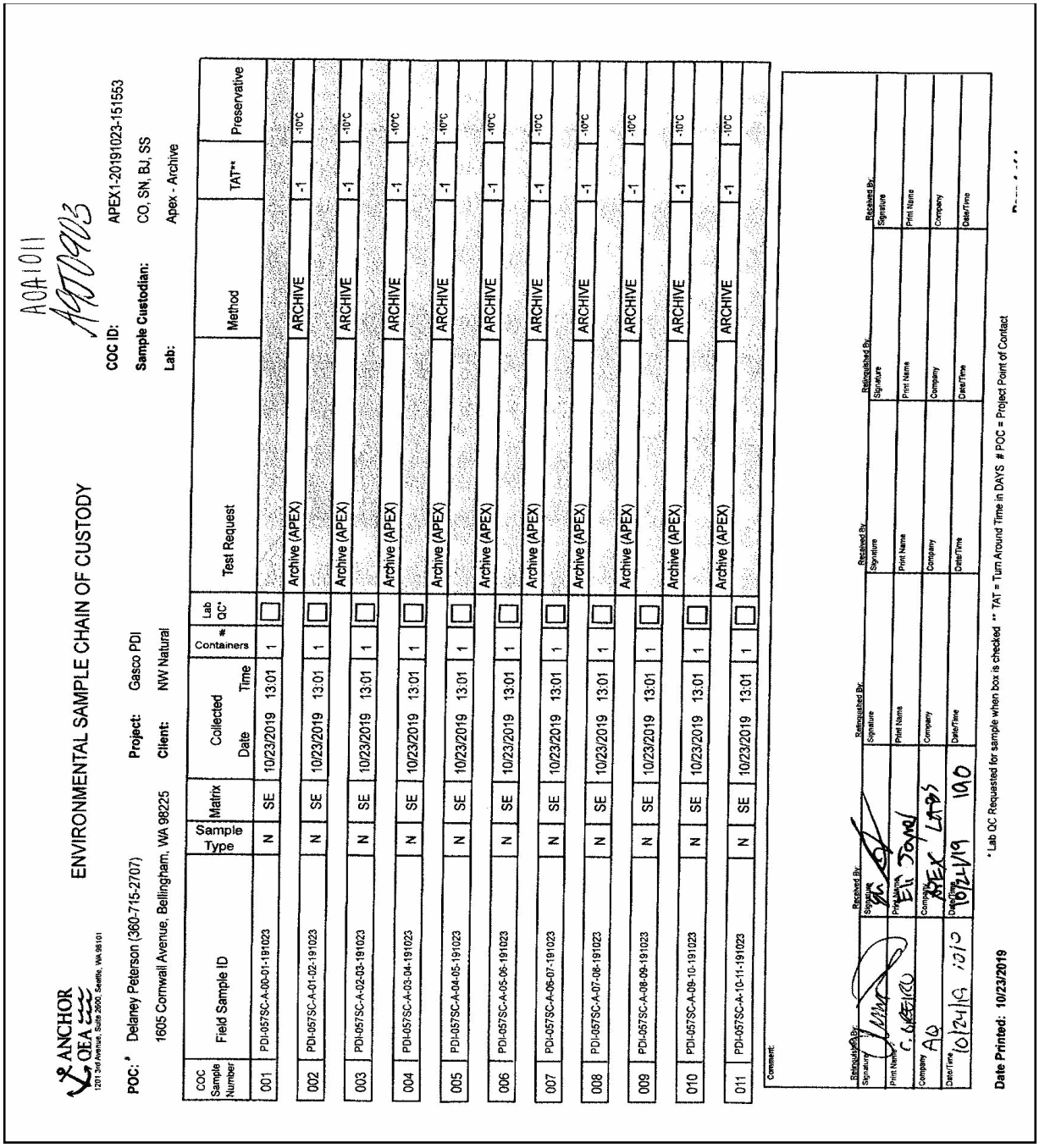
Apex Laboratories

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

Darwin Thomas, Business Development Director

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

ANCHOR QEA, LLC — 1201 3rd Avenue, Suite 2600, Seattle, WA 98101

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

COC ID: APEX1-20191023-151553
Sample Custodian: CO, SN, BJ, SS
Lab: Apex - Archive

A0A1011
A0A1011

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-057SC-A-00-01-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-057SC-A-01-02-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-057SC-A-02-03-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-057SC-A-03-04-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-057SC-A-04-05-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-057SC-A-05-06-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-057SC-A-06-07-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-057SC-A-07-08-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-057SC-A-08-09-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-057SC-A-09-10-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-057SC-A-10-11-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature / Print Name / Company / Date/Time — Received By: Signature / Print Name / Company / Date/Time

Relinquished By: Signature / Print Name / Company / Date/Time — Received By: Signature / Print Name / Company / Date/Time

Relinquished By: Signature / Print Name: C. Waterman / Company: AQ / Date/Time: 10/24/19 1010 — Received By: Signature / Print Name: Eli Jones / Company: APEX LABS / Date/Time: 10/24/19 1010

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

Date Printed: 10/23/2019

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.

Darwin Thomas, Business Development Director

Anchor QEA, LLC	Project:	**Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**	**Report ID:**
Portland, OR 97219	Project Manager:	**Ryan Barth**	**A0A1011 - 02 27 20 1741**

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0A1011
A9J0903

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

Project: Gasco PDI
Client: NW Natural

COC ID: APEX1-20191023-151553
Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-062SC-A-03-04-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-062SC-A-04-05-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-062SC-A-05-06-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-062SC-A-06-07-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-062SC-A-07-08-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-062SC-A-08-09-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-062SC-A-09-10-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-062SC-A-10-11-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-062SC-A-11-12-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-062SC-A-12-13-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-062SC-B-00-02-191023	N	SE	10/23/2019	9:38	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	[signature]	[signature]				
Print Name	C. O'Beirc	Eli Jobel				
Company	AQ	APEX LABS				
Date/Time	10/24/19 1010	10/24/19 1010				

Date Printed: 10/23/2019

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

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0A1011 - 02 27 20 1741**

APEX LABS COOLER RECEIPT FORM

A0A1011

Client: Anchor QEA Element WO#: A9 10903

Project/Project #: Gasco PDI Archive

Delivery Info:

Date/time received: 10/24/19 @ 1010 By: EJ

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

Cooler Inspection Date/time inspected: 10/24/19 @ 1103 By: EJ

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

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.8						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

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: 10/24/19 @ 14:30 By: MJ

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No ___ NA X

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

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ___

Water samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA ✓

Comments: ___

Additional information: ___

Labeled by: MJ Witness: AS Cooler Inspected by: MJ See Project Contact Form: Y

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.

Darwin Thomas, Business Development Director

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

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

A0A1011

Apex Laboratories

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

Report To:

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

Invoice To:

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

Date Due:	02/13/20 17:00 (75 day TAT)		
Received By:	Eli S. Joyner	Date Received:	10/24/19 10:10
Logged In By:	Susan L. Treat	Date Logged In:	01/30/20 15:02

Cooler #1 received at 1.8°C

Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
A0A1011-01 PDI-057SC-A-06-07-191023 [Sediment] Sampled 10/23/19 13:01 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0903-07**
Dry Weight				
Dry Weight	02/13/20 17:00	3	04/20/20 13:01	Use Results from TS.. Make NR once completed.
Project Mgmt				
Data Package	03/12/20 17:00	10	01/30/20 13:01	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/13/20 17:00	10	11/06/19 13:01	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/13/20 17:00	10	10/22/20 13:01	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/13/20 17:00	10	11/06/19 13:01	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/13/20 17:00	10	04/20/20 13:01	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/13/20 17:00	10	11/20/19 13:01	
A0A1011-02 PDI-057SC-A-07-08-191023 [Sediment] Sampled 10/23/19 13:01 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0903-08**
Dry Weight				
Dry Weight	02/13/20 17:00	3	04/20/20 13:01	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/13/20 17:00	10	11/06/19 13:01	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/13/20 17:00	10	10/22/20 13:01	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/13/20 17:00	10	11/06/19 13:01	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/13/20 17:00	10	04/20/20 13:01	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/13/20 17:00	10	11/20/19 13:01	

A0A1011

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A0A1011-03 PDI-057SC-A-08-09-191023 [Sediment] Sampled 10/23/19 13:01 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0903-09**
Dry Weight				
Dry Weight	02/13/20 17:00	3	04/20/20 13:01	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/13/20 17:00	10	11/06/19 13:01	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/13/20 17:00	10	10/22/20 13:01	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/13/20 17:00	10	11/06/19 13:01	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/13/20 17:00	10	04/20/20 13:01	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/13/20 17:00	10	11/20/19 13:01	
A0A1011-04 PDI-062SC-A-08-09-191023 [Sediment] Sampled 10/23/19 09:33 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0903-26**
Dry Weight				
Dry Weight	02/13/20 17:00	3	04/20/20 09:33	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/13/20 17:00	10	11/06/19 09:33	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/13/20 17:00	10	10/22/20 09:33	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/13/20 17:00	10	11/06/19 09:33	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/13/20 17:00	10	04/20/20 09:33	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/13/20 17:00	10	11/20/19 09:33	
A0A1011-05 PDI-062SC-A-09-10-191023 [Sediment] Sampled 10/23/19 09:33 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0903-27**
Dry Weight				
Dry Weight	02/13/20 17:00	3	04/20/20 09:33	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/13/20 17:00	10	11/06/19 09:33	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/13/20 17:00	10	10/22/20 09:33	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/13/20 17:00	10	11/06/19 09:33	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/13/20 17:00	10	04/20/20 09:33	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/13/20 17:00	10	11/20/19 09:33	

A0A1011

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A0A1011-06 PDI-062SC-A-10-11-191023 [Sediment] Sampled 10/23/19 09:33 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**A9J0903-28**
Dry Weight				
Dry Weight	02/13/20 17:00	3	04/20/20 09:33	Use Results from TS.. Make NR once completed.
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/13/20 17:00	10	11/06/19 09:33	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/13/20 17:00	10	10/22/20 09:33	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/13/20 17:00	10	11/06/19 09:33	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/13/20 17:00	10	04/20/20 09:33	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/13/20 17:00	10	11/20/19 09:33	

Reviewed By

Date

AOA1011
AQJ0903

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

COC ID: APEX1-20191023-151553
Sample Custodian: CO, SN, BJ, SS
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-057SC-A-00-01-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-057SC-A-01-02-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-057SC-A-02-03-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-057SC-A-03-04-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-057SC-A-04-05-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-057SC-A-05-06-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-057SC-A-06-07-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-057SC-A-07-08-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-057SC-A-08-09-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-057SC-A-09-10-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-057SC-A-10-11-191023	N	SE	10/23/2019	13:01	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature	Signature	Signature	Signature
Print Name: C. BREIRO	Print Name: Eli Joyal	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX LABS	Company	Company	Company	Company
Date/Time: 10/24/19 1010	Date/Time: 10/24/19 1900	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/23/2019

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

AOA1011
A9J0903

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX1-20191023-151553
Sample Custodian: SN
Lab: Apex - Archive

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

Project: Gasco PDI
Client: NW Natural

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-062SC-A-03-04-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-062SC-A-04-05-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-062SC-A-05-06-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-062SC-A-06-07-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-062SC-A-07-08-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-062SC-A-08-09-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-062SC-A-09-10-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-062SC-A-10-11-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-062SC-A-11-12-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-062SC-A-12-13-191023	N	SE	10/23/2019	9:33	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-062SC-B-00-02-191023	N	SE	10/23/2019	9:38	1	☐				

Comment:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	(signature)	(signature)				
Print Name	C. OBEIRC	Eli Soyned				
Company	AQ	APEX LABS				
Date/Time	10/24/19 1010	10/24/19 1010				

Date Printed: 10/23/2019

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

APEX LABS COOLER RECEIPT FORM

AOA1011

Client: Anchor QEA Element WO#: A9 10903

Project/Project #: Gasco PDI Archive

Delivery Info:

Date/time received: 10/24/19 @ 1010 By: EJ

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

Cooler Inspection Date/time inspected: 10/24/19 @ 1103 By: EJ

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

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.8						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

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: 10/24/19 @ 14:30 By: MJ

All samples intact? Yes Y No ___ Comments: ___

Bottle labels/COCs agree? Yes Y No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No ___ NA Y

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

Do VOA vials have visible headspace? Yes ___ No ___ NA Y

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: MJ Witness: KD Cooler Inspected by: MJ See Project Contact Form: Y

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

CLP-Like Forms

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019

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

Client Sample Id:	Lab Sample Id:	Matrix
PDI-057SC-A-06-07-191023	A0A1011-01	Sediment
PDI-057SC-A-07-08-191023	A0A1011-02	Sediment
PDI-057SC-A-08-09-191023	A0A1011-03	Sediment
PDI-062SC-A-08-09-191023	A0A1011-04	Sediment
PDI-062SC-A-09-10-191023	A0A1011-05	Sediment
PDI-062SC-A-10-11-191023	A0A1011-06	Sediment

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

Signature: 

Name: David G. Jack

Forms Created: 3/7/2020 11:55AM

Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

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

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

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-057SC-A-06-07-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-01	File ID:	ECD2R008.D
Sampled:	10/23/19 13:01	Prepared:	02/03/20 07:08	Analyzed:	02/07/20 09:42
Solids:	56.36	Preparation:	EPA 3546	Initial/Final:	30.18 g / 2 mL
Batch:	0020004	Sequence:	0B07014	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.18	U
11104-28-2	Aroclor 1221	1	1.18	U
11141-16-5	Aroclor 1232	1	1.18	U
53469-21-9	Aroclor 1242	1	1.18	U
12672-29-6	Aroclor 1248	1	1.18	U
11097-69-1	Aroclor 1254	1	1.18	U
11096-82-5	Aroclor 1260	1	1.18	U
37324-23-5	Aroclor 1262	1	1.18	U
11100-14-4	Aroclor 1268	1	1.18	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.4	23.2	79	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-057SC-A-07-08-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-02	File ID:	ECD2R010.D
Sampled:	10/23/19 13:01	Prepared:	02/03/20 07:08	Analyzed:	02/07/20 10:17
Solids:	56.65	Preparation:	EPA 3546	Initial/Final:	30.09 g / 2 mL
Batch:	0020004	Sequence:	0B07014	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.18	U
11104-28-2	Aroclor 1221	1	1.18	U
11141-16-5	Aroclor 1232	1	1.18	U
53469-21-9	Aroclor 1242	1	1.18	U
12672-29-6	Aroclor 1248	1	1.18	U
11097-69-1	Aroclor 1254	1	1.18	U
11096-82-5	Aroclor 1260	1	1.18	U
37324-23-5	Aroclor 1262	1	1.18	U
11100-14-4	Aroclor 1268	1	1.18	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.3	20.2	69	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-057SC-A-08-09-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-03	File ID:	ECD2R012.D
Sampled:	10/23/19 13:01	Prepared:	02/03/20 07:08	Analyzed:	02/07/20 10:53
Solids:	60.21	Preparation:	EPA 3546	Initial/Final:	30.26 g / 2 mL
Batch:	0020004	Sequence:	0B07014	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.10	U
11104-28-2	Aroclor 1221	1	1.10	U
11141-16-5	Aroclor 1232	1	1.10	U
53469-21-9	Aroclor 1242	1	1.10	U
12672-29-6	Aroclor 1248	1	1.10	U
11097-69-1	Aroclor 1254	1	1.10	U
11096-82-5	Aroclor 1260	1	1.10	U
37324-23-5	Aroclor 1262	1	1.10	U
11100-14-4	Aroclor 1268	1	1.10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	27.4	21.4	78	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-062SC-A-08-09-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-04RE1	File ID:	ECD2R006.D
Sampled:	10/23/19 09:33	Prepared:	02/12/20 07:03	Analyzed:	02/12/20 17:17
Solids:	62.67	Preparation:	EPA 3546	Initial/Final:	30.29 g / 2 mL
Batch:	0020348	Sequence:	0B12052	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.06	U
11104-28-2	Aroclor 1221	1	1.06	U
11141-16-5	Aroclor 1232	1	1.06	U
53469-21-9	Aroclor 1242	1	1.06	U
12672-29-6	Aroclor 1248	1	1.06	U
11097-69-1	Aroclor 1254	1	1.06	U
11096-82-5	Aroclor 1260	1	1.06	U
37324-23-5	Aroclor 1262	1	1.06	U
11100-14-4	Aroclor 1268	1	1.06	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	26.3	15.8	60	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-062SC-A-09-10-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-05RE1	File ID:	ECD2R010.D
Sampled:	10/23/19 09:33	Prepared:	02/12/20 07:03	Analyzed:	02/12/20 18:28
Solids:	80.02	Preparation:	EPA 3546	Initial/Final:	30.61 g / 2 mL
Batch:	0020348	Sequence:	0B12052	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.821	U
11104-28-2	Aroclor 1221	1	0.821	U
11141-16-5	Aroclor 1232	1	0.821	U
53469-21-9	Aroclor 1242	1	0.821	U
12672-29-6	Aroclor 1248	1	0.821	U
11097-69-1	Aroclor 1254	1	0.821	U
11096-82-5	Aroclor 1260	1	0.821	U
37324-23-5	Aroclor 1262	1	0.821	U
11100-14-4	Aroclor 1268	1	0.821	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.4	16.8	82	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-062SC-A-10-11-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-06RE1	File ID:	ECD2R012.D
Sampled:	10/23/19 09:33	Prepared:	02/12/20 07:03	Analyzed:	02/12/20 19:03
Solids:	80.81	Preparation:	EPA 3546	Initial/Final:	30.25 g / 2 mL
Batch:	0020348	Sequence:	0B12052	Calibration:	A0A1501
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.822	U
11104-28-2	Aroclor 1221	1	0.822	U
11141-16-5	Aroclor 1232	1	0.822	U
53469-21-9	Aroclor 1242	1	0.822	U
12672-29-6	Aroclor 1248	1	0.822	U
11097-69-1	Aroclor 1254	1	0.822	U
11096-82-5	Aroclor 1260	1	0.822	U
37324-23-5	Aroclor 1262	1	0.822	U
11100-14-4	Aroclor 1268	1	0.822	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.5	17.9	87	43 - 120	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020004 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020004-BLK1	ECD2R004.D	02/03/20 07:08	
LCS	0020004-BS1	ECD2R005.D	02/03/20 07:08	
PDI-057SC-A-08-09-191023 (MS)	0020004-MS1	ECD2R014.D	02/03/20 07:08	
PDI-057SC-A-08-09-191023 (MSD)	0020004-MSD1	ECD2R016.D	02/03/20 07:08	
PDI-057SC-A-06-07-191023	A0A1011-01	ECD2R008.D	02/03/20 07:08	
PDI-057SC-A-07-08-191023	A0A1011-02	ECD2R010.D	02/03/20 07:08	
PDI-057SC-A-08-09-191023	A0A1011-03	ECD2R012.D	02/03/20 07:08	

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

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020348 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020348-BLK1	ECD2R004.D	02/12/20 07:03	
LCS	0020348-BS1	ECD2R005.D	02/12/20 07:03	
PDI-062SC-A-08-09-191023 (Dup)	0020348-DUP1	ECD2R008.D	02/12/20 07:03	
PDI-062SC-A-10-11-191023 (MS)	0020348-MS1	ECD2R014.D	02/12/20 07:03	
PDI-062SC-A-08-09-191023	A0A1011-04RE1	ECD2R006.D	02/12/20 07:03	
PDI-062SC-A-09-10-191023	A0A1011-05RE1	ECD2R010.D	02/12/20 07:03	
PDI-062SC-A-10-11-191023	A0A1011-06RE1	ECD2R012.D	02/12/20 07:03	

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

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020004-BLK1	File ID:	ECD2R004.D
Prepared:	02/03/20 07:08	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	02/06/20 08:32	Instrument:	DUALECD2R		
Batch:	0020004	Sequence:	0B06012	Calibration:	A0A1501

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

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	14.6	91	43 - 120	

METHOD BLANK DATA SHEET

EPA 8082A

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

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

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

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020004	Laboratory ID:	0020004-BS1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	83.3	50.3	60	47 - 134
Aroclor 1260	83.3	68.5	82	53 - 140

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020348	Laboratory ID:	0020348-BS1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

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

* = Values outside of QC limits

PDI-062SC-A-08-09-191023

DUPLICATES

EPA 8082A

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020348
Preparation: EPA 3546
Source Sample Name: PDI-062SC-A-08-09-191023

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020348-DUP1
Lab Source ID: A0A1011-04RE1
Initial/Final: 30.26 g / 2 mL
% Solids: 62.67

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Aroclor 1016	30	0.00		ND				EPA 8082A
Aroclor 1221	30	0.00		ND				EPA 8082A
Aroclor 1232	30	0.00		ND				EPA 8082A
Aroclor 1242	30	0.00		ND				EPA 8082A
Aroclor 1248	30	0.00		ND				EPA 8082A
Aroclor 1254	30	0.00		ND				EPA 8082A
Aroclor 1260	30	0.00		ND				EPA 8082A
Aroclor 1262	30	0.00		ND				EPA 8082A
Aroclor 1268	30	0.00		ND				EPA 8082A

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-057SC-A-08-09-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020004	Laboratory ID:	0020004-MS1
Preparation:	EPA 3546	Initial/Final:	30.24 g / 2 mL

Source Sample Name: PDI-057SC-A-08-09-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	137	ND	83.4	61	47 - 134
Aroclor 1260	137	ND	97.9	71	53 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-057SC-A-08-09-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020004	Laboratory ID:	0020004-MSD1
Preparation:	EPA 3546	Initial/Final:	30.22 g / 2 mL

Source Sample Name: PDI-057SC-A-08-09-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	137	82.7	60	0.8	30	47 - 134
Aroclor 1260	137	102	74	4	30	53 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-062SC-A-10-11-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020348	Laboratory ID:	0020348-MS1
Preparation:	EPA 3546	Initial/Final:	30.23 g / 2 mL

Source Sample Name: PDI-062SC-A-10-11-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	102	ND	68.1	67	47 - 134
Aroclor 1260	102	ND	89.3	87	53 - 140

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

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

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

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B06012	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B06012-CCV1	ECD2R002.D	02/06/20 07:57
Calibration Blank	0B06012-CCB1	ECD2R003.D	02/06/20 08:14
Blank	0020004-BLK1	ECD2R004.D	02/06/20 08:32
LCS	0020004-BS1	ECD2R005.D	02/06/20 08:50
Calibration Check	0B06012-CCV2	ECD2R018.D	02/06/20 12:39
Calibration Blank	0B06012-CCB2	ECD2R019.D	02/06/20 12:57
Calibration Check	0B06012-CCV3	ECD2R030.D	02/06/20 16:13
Calibration Blank	0B06012-CCB3	ECD2R031.D	02/06/20 16:31

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B07014	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B07014-CCV1	ECD2R002.D	02/07/20 07:49
Calibration Blank	0B07014-CCB1	ECD2R003.D	02/07/20 08:07
PDI-057SC-A-06-07-191023	A0A1011-01	ECD2R008.D	02/07/20 09:42
PDI-057SC-A-07-08-191023	A0A1011-02	ECD2R010.D	02/07/20 10:17
PDI-057SC-A-08-09-191023	A0A1011-03	ECD2R012.D	02/07/20 10:53
PDI-057SC-A-08-09-191023 (MS)	0020004-MS1	ECD2R014.D	02/07/20 11:28
PDI-057SC-A-08-09-191023 (MSD)	0020004-MSD1	ECD2R016.D	02/07/20 12:03
Calibration Check	0B07014-CCV2	ECD2R018.D	02/07/20 12:38
Calibration Blank	0B07014-CCB2	ECD2R019.D	02/07/20 12:56

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B12052	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B12052-CCV1	ECD2R002.D	02/12/20 16:07
Calibration Blank	0B12052-CCB1	ECD2R003.D	02/12/20 16:24
Blank	0020348-BLK1	ECD2R004.D	02/12/20 16:42
LCS	0020348-BS1	ECD2R005.D	02/12/20 16:59
PDI-062SC-A-08-09-191023	A0A1011-04RE1	ECD2R006.D	02/12/20 17:17
PDI-062SC-A-08-09-191023 (Dup)	0020348-DUP1	ECD2R008.D	02/12/20 17:52
PDI-062SC-A-09-10-191023	A0A1011-05RE1	ECD2R010.D	02/12/20 18:28
PDI-062SC-A-10-11-191023	A0A1011-06RE1	ECD2R012.D	02/12/20 19:03
PDI-062SC-A-10-11-191023 (MS)	0020348-MS1	ECD2R014.D	02/12/20 19:38
Calibration Check	0B12052-CCV2	ECD2R016.D	02/12/20 20:13
Calibration Blank	0B12052-CCB2	ECD2R017.D	02/12/20 20:31

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

INITIAL CALIBRATION DATA (Summary)

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0A1501 Date: 01/15/20 08:26 Instrument: DUALECD2R

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

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

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0A1501

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: DUALECD2R

Calibration Date: 01/15/20 08:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)	20	7263.95	50	6876.42	100	6397.28	200	5954.215	500	5671.72	1000	5624.087
1016 (2)	20	12472.9	50	11959.92	100	11426.6	200	11672.72	500	10968.62	1000	11025.44
1016 (3)	20	5801.75	50	5801.38	100	5369.91	200	5336.32	500	5077.81	1000	5145.954
1016 (4)	20	5870.45	50	5570.68	100	5194.09	200	4909.52	500	4406.78	1000	4338.878
1016 (5)	20	6568.75	50	6158.62	100	5693.13	200	5381.97	500	5073.978	1000	5224.293
1016 (6)	20	6760.6	50	6310.16	100	5881.35	200	5800.32	500	5147.766	1000	5149.713
Aroclor 1016	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
1260 (1)	20	11821.5	50	10819.18	100	10604.65	200	10466.11	500	10161.83	1000	10123.09
1260 (2)	20	14049.55	50	13128.22	100	13214.6	200	12556.99	500	12304.63	1000	12298.76
1260 (3)	20	14118	50	13483.44	100	13273.38	200	13721.19	500	13080.06	1000	12961.67
1260 (4)	20	20729.65	50	20959.06	100	20510.63	200	21259.37	500	20993.46	1000	21886.59
1260 (5)	20	12895.05	50	12167.28	100	12204.07	200	12359.45	500	12141.69	1000	12074.36
1260 (6)	20	5118.75	50	5238.06	100	4788.51	200	5044.68	500	4784.452	1000	4594.659
Aroclor 1260	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
Decachlorobiphenyl (Surr)	10	107063.8	25	110239.3	50	107929.1	100	108917.2	250	100873.3	500	117191.4

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0A1501
Instrument: DUALECD2R
Matrix:
Calibration Date: 01/15/20 08:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)	1500	5486.193										
1016 (2)	1500	10563.24										
1016 (3)	1500	4962.429										
1016 (4)	1500	4294.934										
1016 (5)	1500	4717.885										
1016 (6)	1500	4938.143										
Aroclor 1016	1500	0										
1254 (1)											500	8473.848
1254 (2)											500	13909.83
1254 (3)											500	15174.34
1254 (4)											500	10916.49
1254 (5)											500	11248.66
1254 (6)											500	3527.182
Aroclor 1254											500	0
1260 (1)	1500	9698.7										
1260 (2)	1500	11784.49										
1260 (3)	1500	12190.36										
1260 (4)	1500	21728.56										
1260 (5)	1500	11801.18										
1260 (6)	1500	4590.586										
Aroclor 1260	1500	0										
Decachlorobiphenyl (Surr)	800	126351.8	200	0	200	0	200	0	200	0	200	0

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0A1501	Instrument:	DUALECD2R
Matrix:		Calibration Date:	01/15/20 08:26

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1262 (1)	500	10571.7										
1262 (2)	500	15277.51										
1262 (3)	500	12804.2										
1262 (4)	500	27524.62										
1262 (5)	500	16419.55										
1262 (6)	500	7200.532										
Aroclor 1262	500	~~0~~										
Decachlorobiphenyl (Surr)	200	~~0~~	200	~~0~~								

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

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

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

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

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

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

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

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

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

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

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

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R002.D	Calibration Date:	01/15/20 08:26
Sequence:	0B06012	Injection Date:	02/06/20
Lab Sample ID:	0B06012-CCV1	Injection Time:	07:57

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	482				-3.6	20
Aroclor 1260	Ave	500	527				5.5	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R018.D	Calibration Date:	01/15/20 08:26
Sequence:	0B06012	Injection Date:	02/06/20
Lab Sample ID:	0B06012-CCV2	Injection Time:	12:39

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	504				0.8	20
Aroclor 1260	Ave	500	552				10.5	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R030.D	Calibration Date:	01/15/20 08:26
Sequence:	0B06012	Injection Date:	02/06/20
Lab Sample ID:	0B06012-CCV3	Injection Time:	16:13

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	502				0.5	20
Aroclor 1260	Ave	500	549				9.8	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R002.D	Calibration Date:	01/15/20 08:26
Sequence:	0B07014	Injection Date:	02/07/20
Lab Sample ID:	0B07014-CCV1	Injection Time:	07:49

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	479				-4.1	20
Aroclor 1260	Ave	500	513				2.6	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD2R	Calibration:	A0A1501
Lab File ID:	ECD2R018.D	Calibration Date:	01/15/20 08:26
Sequence:	0B07014	Injection Date:	02/07/20
Lab Sample ID:	0B07014-CCV2	Injection Time:	12:38

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	515				3.0	20
Aroclor 1260	Ave	500	567				13.4	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

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

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

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

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

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

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

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

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

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B06012	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B06012-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/06/20 07:57			
Decachlorobiphenyl (Surr)	250	111	80 - 120	10.541	10.55114	-0.0101	+/-1.0	
Calibration Blank (0B06012-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/06/20 08:14			
Decachlorobiphenyl (Surr)	100	102	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
Blank (0020004-BLK1)			Lab File ID: ECD2R004.D		Analyzed: 02/06/20 08:32			
Decachlorobiphenyl (Surr)	16.1	91	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
LCS (0020004-BS1)			Lab File ID: ECD2R005.D		Analyzed: 02/06/20 08:50			
Decachlorobiphenyl (Surr)	16.7	91	43 - 120	10.537	10.55114	-0.0141	+/-1.0	
Calibration Check (0B06012-CCV2)			Lab File ID: ECD2R018.D		Analyzed: 02/06/20 12:39			
Decachlorobiphenyl (Surr)	250	117	80 - 120	10.539	10.55114	-0.0121	+/-1.0	
Calibration Blank (0B06012-CCB2)			Lab File ID: ECD2R019.D		Analyzed: 02/06/20 12:57			
Decachlorobiphenyl (Surr)	100	107	43 - 120	10.538	10.55114	-0.0131	+/-1.0	
Calibration Check (0B06012-CCV3)			Lab File ID: ECD2R030.D		Analyzed: 02/06/20 16:13			
Decachlorobiphenyl (Surr)	250	111	80 - 120	10.538	10.55114	-0.0131	+/-1.0	
Calibration Blank (0B06012-CCB3)			Lab File ID: ECD2R031.D		Analyzed: 02/06/20 16:31			
Decachlorobiphenyl (Surr)	100	111	43 - 120	10.537	10.55114	-0.0141	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B07014	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B07014-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/07/20 07:49			
Decachlorobiphenyl (Surr)	250	106	80 - 120	10.539	10.55114	-0.0121	+/-1.0	
Calibration Blank (0B07014-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/07/20 08:07			
Decachlorobiphenyl (Surr)	100	101	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
PDI-057SC-A-06-07-191023 (A0A1011-01)			Lab File ID: ECD2R008.D		Analyzed: 02/07/20 09:42			
Decachlorobiphenyl (Surr)	29.4	79	43 - 120	10.537	10.55114	-0.0141	+/-1.0	
PDI-057SC-A-07-08-191023 (A0A1011-02)			Lab File ID: ECD2R010.D		Analyzed: 02/07/20 10:17			
Decachlorobiphenyl (Surr)	29.3	69	43 - 120	10.537	10.55114	-0.0141	+/-1.0	
PDI-057SC-A-08-09-191023 (A0A1011-03)			Lab File ID: ECD2R012.D		Analyzed: 02/07/20 10:53			
Decachlorobiphenyl (Surr)	27.4	78	43 - 120	10.536	10.55114	-0.0151	+/-1.0	
Matrix Spike (0020004-MS1)			Lab File ID: ECD2R014.D		Analyzed: 02/07/20 11:28			
Decachlorobiphenyl (Surr)	27.5	78	43 - 120	10.538	10.55114	-0.0131	+/-1.0	
Matrix Spike Dup (0020004-MSD1)			Lab File ID: ECD2R016.D		Analyzed: 02/07/20 12:03			
Decachlorobiphenyl (Surr)	27.5	75	43 - 120	10.537	10.55114	-0.0141	+/-1.0	
Calibration Check (0B07014-CCV2)			Lab File ID: ECD2R018.D		Analyzed: 02/07/20 12:38			
Decachlorobiphenyl (Surr)	250	119	80 - 120	10.539	10.55114	-0.0121	+/-1.0	
Calibration Blank (0B07014-CCB2)			Lab File ID: ECD2R019.D		Analyzed: 02/07/20 12:56			
Decachlorobiphenyl (Surr)	100	107	43 - 120	10.536	10.55114	-0.0151	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B12052	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A0A1501

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B12052-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/12/20 16:07			
Decachlorobiphenyl (Surr)	250	110	80 - 120	10.541	10.55114	-0.0101	+/-1.0	
Calibration Blank (0B12052-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/12/20 16:24			
Decachlorobiphenyl (Surr)	100	105	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
Blank (0020348-BLK1)			Lab File ID: ECD2R004.D		Analyzed: 02/12/20 16:42			
Decachlorobiphenyl (Surr)	16.1	94	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
LCS (0020348-BS1)			Lab File ID: ECD2R005.D		Analyzed: 02/12/20 16:59			
Decachlorobiphenyl (Surr)	16.7	95	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
PDI-062SC-A-08-09-191023 (A0A1011-04RE1)			Lab File ID: ECD2R006.D		Analyzed: 02/12/20 17:17			
Decachlorobiphenyl (Surr)	26.3	60	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
Duplicate (0020348-DUP1)			Lab File ID: ECD2R008.D		Analyzed: 02/12/20 17:52			
Decachlorobiphenyl (Surr)	26.4	58	43 - 120	10.541	10.55114	-0.0101	+/-1.0	
PDI-062SC-A-09-10-191023 (A0A1011-05RE1)			Lab File ID: ECD2R010.D		Analyzed: 02/12/20 18:28			
Decachlorobiphenyl (Surr)	20.4	82	43 - 120	10.541	10.55114	-0.0101	+/-1.0	
PDI-062SC-A-10-11-191023 (A0A1011-06RE1)			Lab File ID: ECD2R012.D		Analyzed: 02/12/20 19:03			
Decachlorobiphenyl (Surr)	20.5	87	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
Matrix Spike (0020348-MS1)			Lab File ID: ECD2R014.D		Analyzed: 02/12/20 19:38			
Decachlorobiphenyl (Surr)	20.5	93	43 - 120	10.538	10.55114	-0.0131	+/-1.0	
Calibration Check (0B12052-CCV2)			Lab File ID: ECD2R016.D		Analyzed: 02/12/20 20:13			
Decachlorobiphenyl (Surr)	250	119	80 - 120	10.54	10.55114	-0.0111	+/-1.0	
Calibration Blank (0B12052-CCB2)			Lab File ID: ECD2R017.D		Analyzed: 02/12/20 20:31			
Decachlorobiphenyl (Surr)	100	105	43 - 120	10.538	10.55114	-0.0131	+/-1.0	

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-057SC-A-06-07-191023	10/23/19 13:01	10/24/19 10:10	02/03/20 07:08	102.75	365.00	02/07/20 09:42	4.11	40.00	
PDI-057SC-A-07-08-191023	10/23/19 13:01	10/24/19 10:10	02/03/20 07:08	102.75	365.00	02/07/20 10:17	4.13	40.00	
PDI-057SC-A-08-09-191023	10/23/19 13:01	10/24/19 10:10	02/03/20 07:08	102.75	365.00	02/07/20 10:53	4.16	40.00	
PDI-062SC-A-08-09-191023	10/23/19 09:33	10/24/19 10:10	02/12/20 07:03	111.90	365.00	02/12/20 17:17	0.43	40.00	
PDI-062SC-A-09-10-191023	10/23/19 09:33	10/24/19 10:10	02/12/20 07:03	111.90	365.00	02/12/20 18:28	0.48	40.00	
PDI-062SC-A-10-11-191023	10/23/19 09:33	10/24/19 10:10	02/12/20 07:03	111.90	365.00	02/12/20 19:03	0.50	40.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8081B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-057SC-A-06-07-191023	A0A1011-01	Sediment
PDI-057SC-A-07-08-191023	A0A1011-02	Sediment
PDI-057SC-A-08-09-191023	A0A1011-03	Sediment
PDI-062SC-A-08-09-191023	A0A1011-04	Sediment
PDI-062SC-A-09-10-191023	A0A1011-05	Sediment
PDI-062SC-A-10-11-191023	A0A1011-06	Sediment

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

Signature: 
Name: David G. Jack

Forms Created: 3/7/2020 11:55AM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

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

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

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-057SC-A-06-07-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-01RE1	File ID:	ECD8-02212042.D
Sampled:	10/23/19 13:01	Prepared:	01/31/20 10:20	Analyzed:	02/21/20 23:44
Solids:	56.36	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.59 g / 10 mL
Batch:	0020205	Sequence:	0B21033	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	2	6.70	U
3424-82-6	2,4'-DDE [2C]	2	3.35	U
789-02-6	2,4'-DDT [2C]	2	3.35	U
72-54-8	4,4'-DDD [2C]	2	3.35	U
72-55-9	4,4'-DDE	2	3.35	U
50-29-3	4,4'-DDT [2C]	2	3.35	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	168	112	67	42 - 129	
Decachlorobiphenyl (Surr) [2C]	168	155	93	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-057SC-A-07-08-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-02RE1	File ID:	ECD8-02202042.D
Sampled:	10/23/19 13:01	Prepared:	01/31/20 10:20	Analyzed:	02/20/20 23:06
Solids:	56.65	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.15 g / 10 mL
Batch:	0020205	Sequence:	0B20033	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	2	3.48	U
3424-82-6	2,4'-DDE [2C]	2	3.48	U
789-02-6	2,4'-DDT [2C]	2	3.48	U
72-54-8	4,4'-DDD [2C]	2	3.48	U
72-55-9	4,4'-DDE [2C]	2	3.48	U
50-29-3	4,4'-DDT [2C]	2	3.48	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	174	131	75	42 - 129	
Decachlorobiphenyl (Surr) [2C]	174	182	104	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-057SC-A-08-09-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-03RE2	File ID:	ECD8-02202012.D
Sampled:	10/23/19 13:01	Prepared:	02/04/20 10:33	Analyzed:	02/20/20 14:23
Solids:	60.21	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.71 g / 10 mL
Batch:	0020105	Sequence:	0B20033	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	2	3.10	U
3424-82-6	2,4'-DDE [2C]	2	3.10	U
789-02-6	2,4'-DDT [2C]	2	3.10	U
72-54-8	4,4'-DDD [2C]	2	3.10	U
72-55-9	4,4'-DDE [2C]	2	3.10	U
50-29-3	4,4'-DDT [2C]	2	3.10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	77.5	40.3	52	42 - 129	
Decachlorobiphenyl (Surr) [2C]	77.5	75.6	98	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-062SC-A-08-09-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-04RE1	File ID:	ECD8-02142043.D
Sampled:	10/23/19 09:33	Prepared:	02/04/20 10:33	Analyzed:	02/14/20 23:33
Solids:	62.67	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.08 g / 20 mL
Batch:	0020105	Sequence:	0B14020	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	5	15.8	U
3424-82-6	2,4'-DDE [2C]	5	15.8	U
789-02-6	2,4'-DDT [2C]	5	15.8	U
72-54-8	4,4'-DDD [2C]	5	15.8	U
72-55-9	4,4'-DDE [2C]	5	15.8	U
50-29-3	4,4'-DDT [2C]	5	15.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	79.2	70.0	88	42 - 129	
Decachlorobiphenyl (Surr)	79.2	98.0	124	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-062SC-A-09-10-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-05RE1	File ID:	ECD8-02142045.D
Sampled:	10/23/19 09:33	Prepared:	02/04/20 10:33	Analyzed:	02/15/20 00:11
Solids:	80.02	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.08 g / 10 mL
Batch:	0020105	Sequence:	0B14020	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	1.24	U
3424-82-6	2,4'-DDE [2C]	1	1.24	U
789-02-6	2,4'-DDT [2C]	1	1.24	U
72-54-8	4,4'-DDD [2C]	1	1.24	U
72-55-9	4,4'-DDE [2C]	1	1.24	U
50-29-3	4,4'-DDT [2C]	1	1.24	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	62.0	39.7	64	42 - 129	
Decachlorobiphenyl (Surr) [2C]	62.0	70.7	114	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-062SC-A-10-11-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-06RE1	File ID:	ECD8-02142021.D
Sampled:	10/23/19 09:33	Prepared:	02/04/20 10:33	Analyzed:	02/14/20 17:10
Solids:	80.81	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.21 g / 10 mL
Batch:	0020105	Sequence:	0B14020	Calibration:	A0B0404
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	1.21	U
3424-82-6	2,4'-DDE [2C]	1	1.21	U
789-02-6	2,4'-DDT [2C]	1	1.21	U
72-54-8	4,4'-DDD [2C]	1	1.21	U
72-55-9	4,4'-DDE [2C]	1	1.21	U
50-29-3	4,4'-DDT [2C]	1	1.21	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	60.6	31.9	53	42 - 129	
Decachlorobiphenyl (Surr) [2C]	60.6	63.5	105	55 - 130	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020105 Batch Matrix: Sediment Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020105-BLK1	ECD8-02142019.D	02/04/20 10:33	
LCS	0020105-BS1	ECD8-02142020.D	02/04/20 10:33	
PDI-057SC-A-08-09-191023 (Dup)	0020105-DUP1	ECD8-02142041.D	02/04/20 10:33	
PDI-062SC-A-10-11-191023 (MS)	0020105-MS1	ECD8-02142022.D	02/04/20 10:33	
PDI-062SC-A-10-11-191023 (MSD)	0020105-MSD1	ECD8-02142023.D	02/04/20 11:08	
PDI-057SC-A-08-09-191023	A0A1011-03RE2	ECD8-02202012.D	02/04/20 10:33	
PDI-062SC-A-08-09-191023	A0A1011-04RE1	ECD8-02142043.D	02/04/20 10:33	
PDI-062SC-A-09-10-191023	A0A1011-05RE1	ECD8-02142045.D	02/04/20 10:33	
PDI-062SC-A-10-11-191023	A0A1011-06RE1	ECD8-02142021.D	02/04/20 10:33	

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

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Batch: 0020205 Batch Matrix: Sediment Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020205-BLK1	ECD8-02172011.D	01/31/20 10:20	
LCS	0020205-BS1	ECD8-02172012.D	01/31/20 10:20	
PDI-057SC-A-07-08-191023 (MS)	0020205-MS1	ECD8-02202044.D	01/31/20 10:20	
PDI-057SC-A-07-08-191023 (MSD)	0020205-MSD1	ECD8-02202046.D	01/31/20 10:20	
PDI-057SC-A-06-07-191023	A0A1011-01RE1	ECD8-02212042.D	01/31/20 10:20	
PDI-057SC-A-07-08-191023	A0A1011-02RE1	ECD8-02202042.D	01/31/20 10:20	

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

METHOD BLANK DATA SHEET
EPA 8081B

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020105-BLK1	File ID:	ECD8-02142019.D
Prepared:	02/04/20 10:33	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	02/14/20 16:37	Instrument:	DUALECD8		
Batch:	0020105	Sequence:	0B14020	Calibration:	A0B0404

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

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	45.5	28.9	64	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	50.2	110	55 - 130	

METHOD BLANK DATA SHEET
EPA 8081B

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020205-BLK1	File ID:	ECD8-02172011.D
Prepared:	01/31/20 10:20	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	02/17/20 14:56	Instrument:	DUALECD8		
Batch:	0020205	Sequence:	0B17041	Calibration:	A0B0404

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

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	90.9	63.7	70	42 - 129	
Decachlorobiphenyl (Surr) [2C]	90.9	96.3	106	55 - 130	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020105	Laboratory ID:	0020105-BS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	50.0	47.1	94	50 - 150
2,4'-DDE [2C]	50.0	42.0	84	50 - 150
2,4'-DDT [2C]	50.0	44.9	90	50 - 150
4,4'-DDD [2C]	50.0	54.2	108	50 - 150
4,4'-DDE [2C]	50.0	46.7	93	50 - 150
4,4'-DDT [2C]	50.0	49.6	99	50 - 150

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020205	Laboratory ID:	0020205-BS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	50.0	44.8	90	75 - 130
2,4'-DDE [2C]	50.0	39.8	80	74 - 131
2,4'-DDT [2C]	50.0	44.4	89	64 - 136
4,4'-DDD [2C]	50.0	47.9	96	56 - 139
4,4'-DDE [2C]	50.0	44.2	88	56 - 134
4,4'-DDT [2C]	50.0	48.2	96	50 - 141

* = Values outside of QC limits

PDI-057SC-A-08-09-191023

DUPLICATES

EPA 8081B

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020105
Preparation: EPA 3546/3640A (GPC)
Source Sample Name: PDI-057SC-A-08-09-191023

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020105-DUP1
Lab Source ID: A0A1011-03RE2
Initial/Final: 10.73 g / 10 mL
% Solids: 60.21

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
2,4'-DDD	30	0.527		ND				EPA 8081B
2,4'-DDE [2C]	30	2.02		ND				EPA 8081B
2,4'-DDT [2C]	30	0.744		ND				EPA 8081B
4,4'-DDD [2C]	30	0.651		ND				EPA 8081B
4,4'-DDE [2C]	30	0.868		ND				EPA 8081B
4,4'-DDT [2C]	30	0.403		ND				EPA 8081B

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-062SC-A-10-11-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020105	Laboratory ID:	0020105-MS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.26 g / 10 mL

Source Sample Name: PDI-062SC-A-10-11-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	60.3	ND	59.8	99	50 - 150
2,4'-DDE [2C]	60.3	ND	51.6	86	50 - 150
2,4'-DDT [2C]	60.3	ND	56.7	94	50 - 150
4,4'-DDD [2C]	60.3	ND	64.6	107	50 - 150
4,4'-DDE [2C]	60.3	ND	58.0	96	50 - 150
4,4'-DDT [2C]	60.3	ND	61.6	102	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-062SC-A-10-11-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020105	Laboratory ID:	0020105-MSD1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.17 g / 10 mL

Source Sample Name: PDI-062SC-A-10-11-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,4'-DDD [2C]	60.8	60.9	100	2	35	50 - 150
2,4'-DDE [2C]	60.8	52.4	86	2	35	50 - 150
2,4'-DDT [2C]	60.8	58.2	96	3	35	50 - 150
4,4'-DDD [2C]	60.8	65.4	107	1	30	50 - 150
4,4'-DDE [2C]	60.8	58.8	97	1	30	50 - 150
4,4'-DDT [2C]	60.8	62.0	102	0.8	30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-057SC-A-07-08-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	0020205	Laboratory ID:	0020205-MS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.09 g / 10 mL

Source Sample Name: PDI-057SC-A-07-08-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD	87.5	ND	80.5	92	75 - 130
2,4'-DDE [2C]	87.5	ND	81.9	94	74 - 131
2,4'-DDT [2C]	87.5	ND	80.9	92	64 - 136
4,4'-DDD [2C]	87.5	ND	95.2	109	56 - 139
4,4'-DDE [2C]	87.5	ND	90.5	103	56 - 134
4,4'-DDT [2C]	87.5	ND	82.4	94	50 - 141

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-057SC-A-07-08-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020205	Laboratory ID:	0020205-MSD1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.07 g / 10 mL

Source Sample Name: PDI-057SC-A-07-08-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,4'-DDD	87.6	84.7	97	5	35	75 - 130
2,4'-DDE [2C]	87.6	80.1	91	2	35	74 - 131
2,4'-DDT [2C]	87.6	71.1	81	13	35	64 - 136
4,4'-DDD [2C]	87.6	103	117	8	30	56 - 139
4,4'-DDE [2C]	87.6	91.3	104	0.8	30	56 - 134
4,4'-DDT [2C]	87.6	75.4	86	9	30	50 - 141

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B01012	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

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

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B14020	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B14020-CCV3	ECD8-02142010.D	02/14/20 14:05
Calibration Check	0B14020-CCV4	ECD8-02142011.D	02/14/20 14:22
Calibration Blank	0B14020-CCB1	ECD8-02142014.D	02/14/20 15:12
Blank	0020105-BLK1	ECD8-02142019.D	02/14/20 16:37
LCS	0020105-BS1	ECD8-02142020.D	02/14/20 16:53
PDI-062SC-A-10-11-191023	A0A1011-06RE1	ECD8-02142021.D	02/14/20 17:10
PDI-062SC-A-10-11-191023 (MS)	0020105-MS1	ECD8-02142022.D	02/14/20 17:27
PDI-062SC-A-10-11-191023 (MSD)	0020105-MSD1	ECD8-02142023.D	02/14/20 17:44
Calibration Check	0B14020-CCV7	ECD8-02142024.D	02/14/20 18:06
Calibration Check	0B14020-CCV8	ECD8-02142025.D	02/14/20 18:23
Calibration Blank	0B14020-CCB2	ECD8-02142028.D	02/14/20 19:14
Calibration Check	0B14020-CCVB	ECD8-02142035.D	02/14/20 21:11
Calibration Check	0B14020-CCVC	ECD8-02142036.D	02/14/20 21:28
Calibration Blank	0B14020-CCB3	ECD8-02142037.D	02/14/20 21:45
PDI-057SC-A-08-09-191023 (Dup)	0020105-DUP1	ECD8-02142041.D	02/14/20 22:56
PDI-062SC-A-08-09-191023	A0A1011-04RE1	ECD8-02142043.D	02/14/20 23:33
PDI-062SC-A-09-10-191023	A0A1011-05RE1	ECD8-02142045.D	02/15/20 00:11
Calibration Check	0B14020-CCVD	ECD8-02142047.D	02/15/20 00:48
Calibration Check	0B14020-CCVE	ECD8-02142048.D	02/15/20 01:05
Calibration Blank	0B14020-CCB4	ECD8-02142049.D	02/15/20 01:22

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B17041	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B17041-CCV1	ECD8-02172008.D	02/17/20 13:45
Calibration Check	0B17041-CCV2	ECD8-02172009.D	02/17/20 14:02
Calibration Blank	0B17041-CCB1	ECD8-02172010.D	02/17/20 14:18
Blank	0020205-BLK1	ECD8-02172011.D	02/17/20 14:56
LCS	0020205-BS1	ECD8-02172012.D	02/17/20 15:13
Calibration Check	0B17041-CCV3	ECD8-02172021.D	02/17/20 17:45
Calibration Check	0B17041-CCV4	ECD8-02172022.D	02/17/20 18:02
Calibration Blank	0B17041-CCB2	ECD8-02172023.D	02/17/20 18:18
Calibration Check	0B17041-CCV5	ECD8-02172039.D	02/17/20 23:14
Calibration Check	0B17041-CCV6	ECD8-02172040.D	02/17/20 23:31
Calibration Blank	0B17041-CCB3	ECD8-02172041.D	02/17/20 23:48

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B20033	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B20033-CCV2	ECD8-02202007.D	02/20/20 12:59
Calibration Check	0B20033-CCV3	ECD8-02202008.D	02/20/20 13:15
Calibration Blank	0B20033-CCB1	ECD8-02202010.D	02/20/20 13:49
PDI-057SC-A-08-09-191023	A0A1011-03RE2	ECD8-02202012.D	02/20/20 14:23
Calibration Check	0B20033-CCV5	ECD8-02202019.D	02/20/20 16:28
Calibration Check	0B20033-CCV6	ECD8-02202020.D	02/20/20 16:45
Calibration Blank	0B20033-CCB2	ECD8-02202022.D	02/20/20 17:19
Calibration Check	0B20033-CCV8	ECD8-02202032.D	02/20/20 20:10
Calibration Check	0B20033-CCV9	ECD8-02202033.D	02/20/20 20:27
Calibration Blank	0B20033-CCB3	ECD8-02202034.D	02/20/20 20:44
PDI-057SC-A-07-08-191023	A0A1011-02RE1	ECD8-02202042.D	02/20/20 23:06
PDI-057SC-A-07-08-191023 (MS)	0020205-MS1	ECD8-02202044.D	02/20/20 23:43
PDI-057SC-A-07-08-191023 (MSD)	0020205-MSD1	ECD8-02202046.D	02/21/20 00:21
Calibration Check	0B20033-CCVA	ECD8-02202048.D	02/21/20 00:58
Calibration Check	0B20033-CCVB	ECD8-02202049.D	02/21/20 01:15
Calibration Blank	0B20033-CCB4	ECD8-02202050.D	02/21/20 01:32

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B21033	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B21033-CCV3	ECD8-02212021.D	02/21/20 17:05
Calibration Check	0B21033-CCV4	ECD8-02212022.D	02/21/20 17:22
Calibration Blank	0B21033-CCB3	ECD8-02212023.D	02/21/20 17:38
PDI-057SC-A-06-07-191023	A0A1011-01RE1	ECD8-02212042.D	02/21/20 23:44
Calibration Check	0B21033-CCV5	ECD8-02212044.D	02/22/20 00:22
Calibration Check	0B21033-CCV6	ECD8-02212045.D	02/22/20 00:39
Calibration Blank	0B21033-CCB4	ECD8-02212046.D	02/22/20 00:55

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.

INITIAL CALIBRATION DATA (Summary)

EPA 8081B

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0B0404 Date: 02/04/20 14:02 Instrument: DUALECD8

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	1936798	Ave	7.793011	7.612556	1.911156E-02			20	
2,4'-DDD [2C]	1914280	Ave	9.533784	8.484778	7.879728E-03			20	
2,4'-DDE [2C]	2273013	Ave	8.648352	8.111111	1.433024E-02			20	
2,4'-DDT [2C]	2350817	XXX	11.3194	8.708444	7.111101E-03				
4,4'-DDD [2C]	2565700	XXX	19.03125	8.749222	5.867093E-03				
4,4'-DDE	3320795	Ave	7.444198	7.490778	2.130729E-02			20	
4,4'-DDE [2C]	3268173	XXX	17.28967	8.332	1.888748E-02				
4,4'-DDT [2C]	2752406	XXX	16.31791	8.975	2.109187E-02				
2,4,5,6-TCMX (Surr) [2C]	3449555	Ave	9.65486	5.981444	9.424963E-03			20	
Decachlorobiphenyl (Surr)	2973623	XXX	18.55769	9.506889	9.712043E-03				
Decachlorobiphenyl (Surr) [2C]	2554005	XXX	26.09001	10.53678	1.681729E-02				

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

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0B0404

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: DUALECD8

Calibration Date: 02/04/20 14:02

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

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0B0404
Instrument: DUALECD8
Matrix:
Calibration Date: 02/04/20 14:02

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

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0B0404	Instrument:	DUALECD8
Matrix:		Calibration Date:	02/04/20 14:02

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

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

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

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

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

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142010.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/14/20
Lab Sample ID:	0B14020-CCV3	Injection Time:	14:05

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	45.3		2544986	2305574	-9.4	20
4,4'-DDD [2C]	XXX	50.0	50.1	0.2				20
4,4'-DDE	Ave	50.0	48.0		3320795	3188160	-4.0	20
4,4'-DDE [2C]	XXX	50.0	52.5	4.9				20
4,4'-DDT	Ave	50.0	40.3		2688249	2168702	-19.3	20
4,4'-DDT [2C]	XXX	50.0	44.5	-11.0				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142011.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/14/20
Lab Sample ID:	0B14020-CCV4	Injection Time:	14:22

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	44.4		1936798	1719273	-11.2	20
2,4'-DDD [2C]	Ave	50.0	50.6		1914280	1937629	1.2	20
2,4'-DDE	Ave	50.0	47.8		2312095	2211170	-4.4	20
2,4'-DDE [2C]	Ave	50.0	52.8		2273013	2400982	5.6	20
2,4'-DDT	Ave	50.0	41.2		2393139	1970378	-17.7	20
2,4'-DDT [2C]	XXX	50.0	47.7	-4.5				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142024.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/14/20
Lab Sample ID:	0B14020-CCV7	Injection Time:	18:06

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	96.1		2544986	2446105	-3.9	20
4,4'-DDD [2C]	XXX	100	99.5	-0.5				20
4,4'-DDE	Ave	100	101		3320795	3341437	0.6	20
4,4'-DDE [2C]	XXX	100	103	2.6				20
4,4'-DDT	Ave	100	92.0		2688249	2474400	-8.0	20
4,4'-DDT [2C]	XXX	100	93.4	-6.6				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142025.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/14/20
Lab Sample ID:	0B14020-CCV8	Injection Time:	18:23

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	96.2		1936798	1863276	-3.8	20
2,4'-DDD [2C]	Ave	100	109		1914280	2083938	8.9	20
2,4'-DDE	Ave	100	91.0		2312095	2104961	-9.0	20
2,4'-DDE [2C]	Ave	100	107		2273013	2438640	7.3	20
2,4'-DDT	Ave	100	90.9		2393139	2176192	-9.1	20
2,4'-DDT [2C]	XXX	100	95.8	-4.2				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142035.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/14/20
Lab Sample ID:	0B14020-CCVB	Injection Time:	21:11

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	46.2		2544986	2350432	-7.6	20
4,4'-DDD [2C]	XXX	50.0	54.3	8.7				20
4,4'-DDE	Ave	50.0	45.4		3320795	3012362	-9.3	20
4,4'-DDE [2C]	XXX	50.0	51.3	2.7				20
4,4'-DDT	Ave	50.0	44.3		2688249	2380480	-11.4	20
4,4'-DDT [2C]	XXX	50.0	51.3	2.6				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142036.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/14/20
Lab Sample ID:	0B14020-CCVC	Injection Time:	21:28

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	43.7		1936798	1693516	-12.6	20
2,4'-DDD [2C]	Ave	50.0	54.0		1914280	2067220	8.0	20
2,4'-DDE	Ave	50.0	45.6		2312095	2107350	-8.9	20
2,4'-DDE [2C]	Ave	50.0	54.7		2273013	2485808	9.4	20
2,4'-DDT	Ave	50.0	43.6		2393139	2088180	-12.7	20
2,4'-DDT [2C]	XXX	50.0	52.4	4.8				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142047.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/15/20
Lab Sample ID:	0B14020-CCVD	Injection Time:	00:48

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	95.4		2544986	2427622	-4.6	20
4,4'-DDD [2C]	XXX	100	100	0.5				20
4,4'-DDE	Ave	100	96.1		3320795	3190290	-3.9	20
4,4'-DDE [2C]	XXX	100	96.1	-3.9				20
4,4'-DDT	Ave	100	93.6		2688249	2516347	-6.4	20
4,4'-DDT [2C]	XXX	100	92.7	-7.3				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02142048.D	Calibration Date:	02/04/20 14:02
Sequence:	0B14020	Injection Date:	02/15/20
Lab Sample ID:	0B14020-CCVE	Injection Time:	01:05

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD [2C]	Ave	100	109		1914280	2078788	8.6	20
2,4'-DDE [2C]	Ave	100	106		2273013	2411811	6.1	20
2,4'-DDT [2C]	XXX	100	98.3	-1.7				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02172008.D	Calibration Date:	02/04/20 14:02
Sequence:	0B17041	Injection Date:	02/17/20
Lab Sample ID:	0B17041-CCV1	Injection Time:	13:45

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	45.0		2544986	2289538	-10.0	20
4,4'-DDD [2C]	XXX	50.0	52.1	4.2				20
4,4'-DDE	Ave	50.0	47.3		3320795	3142336	-5.4	20
4,4'-DDE [2C]	XXX	50.0	48.4	-3.3				20
4,4'-DDT	Ave	50.0	43.9		2688249	2361834	-12.1	20
4,4'-DDT [2C]	XXX	50.0	48.4	-3.2				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02172009.D	Calibration Date:	02/04/20 14:02
Sequence:	0B17041	Injection Date:	02/17/20
Lab Sample ID:	0B17041-CCV2	Injection Time:	14:02

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	45.4		1936798	1757312	-9.3	20
2,4'-DDD [2C]	Ave	50.0	50.2		1914280	1920564	0.3	20
2,4'-DDE	Ave	50.0	45.7		2312095	2112984	-8.6	20
2,4'-DDE [2C]	Ave	50.0	48.9		2273013	2224388	-2.1	20
2,4'-DDT	Ave	50.0	45.1		2393139	2156930	-9.9	20
2,4'-DDT [2C]	XXX	50.0	50.3	0.7				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02172021.D	Calibration Date:	02/04/20 14:02
Sequence:	0B17041	Injection Date:	02/17/20
Lab Sample ID:	0B17041-CCV3	Injection Time:	17:45

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	92.2		2544986	2347842	-7.7	20
4,4'-DDD [2C]	XXX	100	94.8	-5.2				20
4,4'-DDE	Ave	100	94.8		3320795	3148078	-5.2	20
4,4'-DDE [2C]	XXX	100	97.1	-2.9				20
4,4'-DDT	Ave	100	95.8		2688249	2574724	-4.2	20
4,4'-DDT [2C]	XXX	100	95.0	-5.0				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02172022.D	Calibration Date:	02/04/20 14:02
Sequence:	0B17041	Injection Date:	02/17/20
Lab Sample ID:	0B17041-CCV4	Injection Time:	18:02

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	96.9		1936798	1876227	-3.1	20
2,4'-DDD [2C]	Ave	100	107		1914280	2057324	7.5	20
2,4'-DDE	Ave	100	94.6		2312095	2188027	-5.4	20
2,4'-DDE [2C]	Ave	100	102		2273013	2326586	2.4	20
2,4'-DDT	Ave	100	95.7		2393139	2289222	-4.3	20
2,4'-DDT [2C]	XXX	100	100	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:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02172039.D	Calibration Date:	02/04/20 14:02
Sequence:	0B17041	Injection Date:	02/17/20
Lab Sample ID:	0B17041-CCV5	Injection Time:	23:14

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD [2C]	XXX	50.0	50.7	1.3				20
4,4'-DDE [2C]	XXX	50.0	48.7	-2.5				20
4,4'-DDT [2C]	XXX	50.0	51.3	2.6				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02172040.D	Calibration Date:	02/04/20 14:02
Sequence:	0B17041	Injection Date:	02/17/20
Lab Sample ID:	0B17041-CCV6	Injection Time:	23:31

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD [2C]	Ave	50.0	51.9		1914280	1985698	3.7	20
2,4'-DDE [2C]	Ave	50.0	50.4		2273013	2290096	0.8	20
2,4'-DDT [2C]	XXX	50.0	51.8	3.7				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202007.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/20/20
Lab Sample ID:	0B20033-CCV2	Injection Time:	12:59

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	42.4		2544986	2159526	-15.1	20
4,4'-DDD [2C]	XXX	50.0	44.6	-10.8				20
4,4'-DDE	Ave	50.0	46.6		3320795	3095270	-6.8	20
4,4'-DDE [2C]	XXX	50.0	46.7	-6.5				20
4,4'-DDT	Ave	50.0	42.9		2688249	2306846	-14.2	20
4,4'-DDT [2C]	XXX	50.0	42.5	-15.0				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202008.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/20/20
Lab Sample ID:	0B20033-CCV3	Injection Time:	13:15

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	43.5		1936798	1684560	-13.0	20
2,4'-DDD [2C]	Ave	50.0	44.0		1914280	1683532	-12.1	20
2,4'-DDE	Ave	50.0	45.9		2312095	2123958	-8.1	20
2,4'-DDE [2C]	Ave	50.0	49.2		2273013	2236798	-1.6	20
2,4'-DDT	Ave	50.0	43.1		2393139	2062348	-13.8	20
2,4'-DDT [2C]	XXX	50.0	43.0	-14.0				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202019.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/20/20
Lab Sample ID:	0B20033-CCV5	Injection Time:	16:28

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	88.3		2544986	2246957	-11.7	20
4,4'-DDD [2C]	XXX	100	87.6	-12.4				20
4,4'-DDE	Ave	100	95.5		3320795	3172556	-4.5	20
4,4'-DDE [2C]	XXX	100	90.6	-9.4				20
4,4'-DDT	Ave	100	90.1		2688249	2421675	-9.9	20
4,4'-DDT [2C]	XXX	100	87.8	-12.2				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202020.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/20/20
Lab Sample ID:	0B20033-CCV6	Injection Time:	16:45

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	90.6		1936798	1754172	-9.4	20
2,4'-DDD [2C]	Ave	100	100		1914280	1918742	0.2	20
2,4'-DDE	Ave	100	92.9		2312095	2148973	-7.1	20
2,4'-DDE [2C]	Ave	100	102		2273013	2324474	2.3	20
2,4'-DDT	Ave	100	95.8		2393139	2293117	-4.2	20
2,4'-DDT [2C]	XXX	100	90.5	-9.5				20

** Quadratic Curve fit may be weighted (1/a or 1/a2). * = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202032.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/20/20
Lab Sample ID:	0B20033-CCV8	Injection Time:	20:10

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	41.3		2544986	2100046	-17.5	20
4,4'-DDD [2C]	XXX	50.0	50.5	1.0				20
4,4'-DDE	Ave	50.0	42.4		3320795	2819568	-15.1	20
4,4'-DDE [2C]	XXX	50.0	46.2	-7.7				20
4,4'-DDT	Ave	50.0	38.3		2688249	2061516	-23.3*	20
4,4'-DDT [2C]	XXX	50.0	41.3	-17.4				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202033.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/20/20
Lab Sample ID:	0B20033-CCV9	Injection Time:	20:27

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	40.6		1936798	1573463	-18.8	20
2,4'-DDD [2C]	Ave	50.0	48.2		1914280	1844255	-3.7	20
2,4'-DDE	Ave	50.0	42.0		2312095	1939841	-16.1	20
2,4'-DDE [2C]	Ave	50.0	46.2		2273013	2102100	-7.5	20
2,4'-DDT	Ave	50.0	38.9		2393139	1861627	-22.2*	20
2,4'-DDT [2C]	XXX	50.0	44.3	-11.4				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202048.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/21/20
Lab Sample ID:	0B20033-CCVA	Injection Time:	00:58

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	81.5		2544986	2073100	-18.5	20
4,4'-DDD [2C]	XXX	100	92.6	-7.4				20
4,4'-DDE	Ave	100	86.9		3320795	2886822	-13.1	20
4,4'-DDE [2C]	XXX	100	92.2	-7.8				20
4,4'-DDT	Ave	100	87.7		2688249	2357362	-12.3	20
4,4'-DDT [2C]	XXX	100	90.7	-9.3				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02202049.D	Calibration Date:	02/04/20 14:02
Sequence:	0B20033	Injection Date:	02/21/20
Lab Sample ID:	0B20033-CCVB	Injection Time:	01:15

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	87.0		1936798	1685176	-13.0	20
2,4'-DDD [2C]	Ave	100	104		1914280	1987267	3.8	20
2,4'-DDE	Ave	100	90.1		2312095	2083762	-9.9	20
2,4'-DDE [2C]	Ave	100	104		2273013	2374920	4.5	20
2,4'-DDT	Ave	100	96.9		2393139	2318781	-3.1	20
2,4'-DDT [2C]	XXX	100	95.3	-4.7				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02212021.D	Calibration Date:	02/04/20 14:02
Sequence:	0B21033	Injection Date:	02/21/20
Lab Sample ID:	0B21033-CCV3	Injection Time:	17:05

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	50.4		2544986	2567730	0.9	20
4,4'-DDD [2C]	XXX	50.0	49.2	-1.5				20
4,4'-DDE	Ave	50.0	52.6		3320795	3490786	5.1	20
4,4'-DDE [2C]	XXX	50.0	51.1	2.2				20
4,4'-DDT	Ave	50.0	47.6		2688249	2562072	-4.7	20
4,4'-DDT [2C]	XXX	50.0	47.0	-6.0				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02212022.D	Calibration Date:	02/04/20 14:02
Sequence:	0B21033	Injection Date:	02/21/20
Lab Sample ID:	0B21033-CCV4	Injection Time:	17:22

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	54.0		1936798	2091000	8.0	20
2,4'-DDD [2C]	Ave	50.0	50.1		1914280	1917741	0.2	20
2,4'-DDE	Ave	50.0	52.4		2312095	2422104	4.8	20
2,4'-DDE [2C]	Ave	50.0	53.7		2273013	2441332	7.4	20
2,4'-DDT	Ave	50.0	49.9		2393139	2389666	-0.1	20
2,4'-DDT [2C]	XXX	50.0	49.2	-1.5				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02212044.D	Calibration Date:	02/04/20 14:02
Sequence:	0B21033	Injection Date:	02/22/20
Lab Sample ID:	0B21033-CCV5	Injection Time:	00:22

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	102		2544986	2586021	1.6	20
4,4'-DDD [2C]	XXX	100	102	1.6				20
4,4'-DDE	Ave	100	101		3320795	3338188	0.5	20
4,4'-DDE [2C]	XXX	100	105	4.6				20
4,4'-DDT	Ave	100	109		2688249	2916968	8.5	20
4,4'-DDT [2C]	XXX	100	99.1	-0.9				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	DUALECD8	Calibration:	A0B0404
Lab File ID:	ECD8-02212045.D	Calibration Date:	02/04/20 14:02
Sequence:	0B21033	Injection Date:	02/22/20
Lab Sample ID:	0B21033-CCV6	Injection Time:	00:39

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	102		1936798	1975000	2.0	20
2,4'-DDD [2C]	Ave	100	112		1914280	2135327	11.5	20
2,4'-DDE	Ave	100	95.9		2312095	2217586	-4.1	20
2,4'-DDE [2C]	Ave	100	115		2273013	2620192	15.3	20
2,4'-DDT	Ave	100	101		2393139	2406413	0.6	20
2,4'-DDT [2C]	XXX	100	102	1.9				20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B01012	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

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

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B14020	Instrument:	DUALECD8
Matrix:	Water	Calibration:	A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B14020-CCV3)			Lab File ID: ECD8-02142010.D		Analyzed: 02/14/20 14:05			
2,4,5,6-TCMX (Surr)	50.0	89	80 - 120	5.217	5.297333	-0.0803	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	100	80 - 120	5.909	5.981444	-0.0724	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	100	80 - 120	5.909	5.981444	-0.0724	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	103	80 - 120	9.421	9.506889	-0.0859	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	103	80 - 120	9.421	9.506889	-0.0859	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	106	80 - 120	10.449	10.53678	-0.0878	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	106	80 - 120	10.449	10.53678	-0.0878	+/-1.0	
Calibration Blank (0B14020-CCB1)			Lab File ID: ECD8-02142014.D		Analyzed: 02/14/20 15:12			
2,4,5,6-TCMX (Surr) [2C]	100	103	25 - 140	5.909	5.981444	-0.0724	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	103	25 - 140	5.909	5.981444	-0.0724	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	30 - 135	10.45	10.53678	-0.0868	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	30 - 135	10.45	10.53678	-0.0868	+/-1.0	
Blank (0020105-BLK1)			Lab File ID: ECD8-02142019.D		Analyzed: 02/14/20 16:37			
2,4,5,6-TCMX (Surr) [2C]	45.5	64	42 - 129	5.908	5.981444	-0.0734	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	45.5	64	42 - 129	5.908	5.981444	-0.0734	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	110	55 - 130	10.448	10.53678	-0.0888	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	110	55 - 130	10.448	10.53678	-0.0888	+/-1.0	
LCS (0020105-BS1)			Lab File ID: ECD8-02142020.D		Analyzed: 02/14/20 16:53			
2,4,5,6-TCMX (Surr) [2C]	50.0	61	42 - 129	5.908	5.981444	-0.0734	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	61	42 - 129	5.908	5.981444	-0.0734	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	107	55 - 130	10.448	10.53678	-0.0888	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	107	55 - 130	10.448	10.53678	-0.0888	+/-1.0	
PDI-062SC-A-10-11-191023 (A0A1011-06RE1)			Lab File ID: ECD8-02142021.D		Analyzed: 02/14/20 17:10			
2,4,5,6-TCMX (Surr) [2C]	60.6	53	42 - 129	5.907	5.981444	-0.0744	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.6	105	55 - 130	10.448	10.53678	-0.0888	+/-1.0	
Matrix Spike (0020105-MS1)			Lab File ID: ECD8-02142022.D		Analyzed: 02/14/20 17:27			
2,4,5,6-TCMX (Surr) [2C]	60.3	62	42 - 129	5.908	5.981444	-0.0734	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	60.3	62	42 - 129	5.908	5.981444	-0.0734	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.3	108	55 - 130	10.448	10.53678	-0.0888	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.3	108	55 - 130	10.448	10.53678	-0.0888	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B14020	Instrument:	DUALECD8
Matrix:	Water	Calibration:	A0B0404

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (0020105-MSD1)			Lab File ID: ECD8-02142023.D		Analyzed: 02/14/20 17:44			
2,4,5,6-TCMX (Surr) [2C]	60.8	54	42 - 129	5.907	5.981444	-0.0744	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	60.8	54	42 - 129	5.907	5.981444	-0.0744	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.8	107	55 - 130	10.447	10.53678	-0.0898	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	60.8	107	55 - 130	10.447	10.53678	-0.0898	+/-1.0	
Calibration Check (0B14020-CCV7)			Lab File ID: ECD8-02142024.D		Analyzed: 02/14/20 18:06			
2,4,5,6-TCMX (Surr)	100	95	80 - 120	5.215	5.297333	-0.0823	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	107	80 - 120	5.906	5.981444	-0.0754	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	107	80 - 120	5.906	5.981444	-0.0754	+/-1.0	
Decachlorobiphenyl (Surr)	100	97	80 - 120	9.423	9.506889	-0.0839	+/-1.0	
Decachlorobiphenyl (Surr)	100	97	80 - 120	9.423	9.506889	-0.0839	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	80 - 120	10.45	10.53678	-0.0868	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	80 - 120	10.45	10.53678	-0.0868	+/-1.0	
Calibration Blank (0B14020-CCB2)			Lab File ID: ECD8-02142028.D		Analyzed: 02/14/20 19:14			
2,4,5,6-TCMX (Surr) [2C]	100	100	25 - 140	5.907	5.981444	-0.0744	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	100	25 - 140	5.907	5.981444	-0.0744	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	30 - 135	10.447	10.53678	-0.0898	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	30 - 135	10.447	10.53678	-0.0898	+/-1.0	
Calibration Check (0B14020-CCVB)			Lab File ID: ECD8-02142035.D		Analyzed: 02/14/20 21:11			
2,4,5,6-TCMX (Surr)	50.0	92	80 - 120	5.212	5.297333	-0.0853	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	106	80 - 120	5.905	5.981444	-0.0764	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	106	80 - 120	5.905	5.981444	-0.0764	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	102	80 - 120	9.415	9.506889	-0.0919	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	102	80 - 120	9.415	9.506889	-0.0919	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	115	80 - 120	10.445	10.53678	-0.0918	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	115	80 - 120	10.445	10.53678	-0.0918	+/-1.0	
Calibration Blank (0B14020-CCB3)			Lab File ID: ECD8-02142037.D		Analyzed: 02/14/20 21:45			
2,4,5,6-TCMX (Surr) [2C]	100	101	25 - 140	5.905	5.981444	-0.0764	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	101	25 - 140	5.905	5.981444	-0.0764	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	30 - 135	10.445	10.53678	-0.0918	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	30 - 135	10.445	10.53678	-0.0918	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B14020	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Duplicate (0020105-DUP1)			Lab File ID: ECD8-02142041.D		Analyzed: 02/14/20 22:56			
2,4,5,6-TCMX (Surr) [2C]	77.4	50	42 - 129	5.905	5.981444	-0.0764	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	77.4	50	42 - 129	5.905	5.981444	-0.0764	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	77.4	94	55 - 130	10.442	10.53678	-0.0948	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	77.4	94	55 - 130	10.442	10.53678	-0.0948	+/-1.0	
PDI-062SC-A-08-09-191023 (A0A1011-04RE1)			Lab File ID: ECD8-02142043.D		Analyzed: 02/14/20 23:33			
2,4,5,6-TCMX (Surr) [2C]	79.2	88	42 - 129	5.904	5.981444	-0.0774	+/-1.0	
Decachlorobiphenyl (Surr)	79.2	124	55 - 130	9.41	9.506889	-0.0969	+/-1.0	
PDI-062SC-A-09-10-191023 (A0A1011-05RE1)			Lab File ID: ECD8-02142045.D		Analyzed: 02/15/20 00:11			
2,4,5,6-TCMX (Surr) [2C]	62.0	64	42 - 129	5.904	5.981444	-0.0774	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	62.0	114	55 - 130	10.442	10.53678	-0.0948	+/-1.0	
Calibration Check (0B14020-CCVD)			Lab File ID: ECD8-02142047.D		Analyzed: 02/15/20 00:48			
2,4,5,6-TCMX (Surr)	100	90	80 - 120	5.208	5.297333	-0.0893	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	103	80 - 120	5.905	5.981444	-0.0764	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	103	80 - 120	5.905	5.981444	-0.0764	+/-1.0	
Decachlorobiphenyl (Surr)	100	96	80 - 120	9.412	9.506889	-0.0949	+/-1.0	
Decachlorobiphenyl (Surr)	100	96	80 - 120	9.412	9.506889	-0.0949	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	80 - 120	10.442	10.53678	-0.0948	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	80 - 120	10.442	10.53678	-0.0948	+/-1.0	
Calibration Blank (0B14020-CCB4)			Lab File ID: ECD8-02142049.D		Analyzed: 02/15/20 01:22			
2,4,5,6-TCMX (Surr) [2C]	100	100	25 - 140	5.904	5.981444	-0.0774	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	100	25 - 140	5.904	5.981444	-0.0774	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	30 - 135	10.444	10.53678	-0.0928	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	30 - 135	10.444	10.53678	-0.0928	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B17041	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B17041-CCV1)			Lab File ID: ECD8-02172008.D		Analyzed: 02/17/20 13:45			
2,4,5,6-TCMX (Surr)	50.0	87	80 - 120	5.199	5.297333	-0.0983	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	98	80 - 120	5.894	5.981444	-0.0874	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	99	80 - 120	9.404	9.506889	-0.1029	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	104	80 - 120	10.432	10.53678	-0.1048	+/-1.0	
Calibration Blank (0B17041-CCB1)			Lab File ID: ECD8-02172010.D		Analyzed: 02/17/20 14:18			
2,4,5,6-TCMX (Surr) [2C]	100	96	42 - 129	5.894	5.981444	-0.0874	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	100	55 - 130	10.431	10.53678	-0.1058	+/-1.0	
Blank (0020205-BLK1)			Lab File ID: ECD8-02172011.D		Analyzed: 02/17/20 14:56			
2,4,5,6-TCMX (Surr) [2C]	90.9	70	42 - 129	5.89	5.981444	-0.0914	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	90.9	106	55 - 130	10.43	10.53678	-0.1068	+/-1.0	
LCS (0020205-BS1)			Lab File ID: ECD8-02172012.D		Analyzed: 02/17/20 15:13			
2,4,5,6-TCMX (Surr) [2C]	100	69	42 - 129	5.893	5.981444	-0.0884	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	100	55 - 130	10.429	10.53678	-0.1078	+/-1.0	
Calibration Check (0B17041-CCV3)			Lab File ID: ECD8-02172021.D		Analyzed: 02/17/20 17:45			
2,4,5,6-TCMX (Surr)	100	88	80 - 120	5.197	5.297333	-0.1003	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	101	80 - 120	5.893	5.981444	-0.0884	+/-1.0	
Decachlorobiphenyl (Surr)	100	94	80 - 120	9.402	9.506889	-0.1049	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	101	80 - 120	10.43	10.53678	-0.1068	+/-1.0	
Calibration Blank (0B17041-CCB2)			Lab File ID: ECD8-02172023.D		Analyzed: 02/17/20 18:18			
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	5.893	5.981444	-0.0884	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	101	55 - 130	10.428	10.53678	-0.1088	+/-1.0	
Calibration Check (0B17041-CCV5)			Lab File ID: ECD8-02172039.D		Analyzed: 02/17/20 23:14			
2,4,5,6-TCMX (Surr) [2C]	50.0	98	80 - 120	5.89	5.981444	-0.0914	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	110	80 - 120	10.424	10.53678	-0.1128	+/-1.0	
Calibration Blank (0B17041-CCB3)			Lab File ID: ECD8-02172041.D		Analyzed: 02/17/20 23:48			
2,4,5,6-TCMX (Surr) [2C]	100	100	42 - 129	5.889	5.981444	-0.0924	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	107	55 - 130	10.425	10.53678	-0.1118	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B20033	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B20033-CCV2)			Lab File ID: ECD8-02202007.D		Analyzed: 02/20/20 12:59			
2,4,5,6-TCMX (Surr)	50.0	85	80 - 120	5.174	5.297333	-0.1233	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	89	80 - 120	5.872	5.981444	-0.1094	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	94	80 - 120	9.377	9.506889	-0.1299	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	96	80 - 120	10.406	10.53678	-0.1308	+/-1.0	
Calibration Blank (0B20033-CCB1)			Lab File ID: ECD8-02202010.D		Analyzed: 02/20/20 13:49			
2,4,5,6-TCMX (Surr) [2C]	100	84	25 - 140	5.873	5.981444	-0.1084	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	93	30 - 135	10.407	10.53678	-0.1298	+/-1.0	
PDI-057SC-A-08-09-191023 (A0A1011-03RE2)			Lab File ID: ECD8-02202012.D		Analyzed: 02/20/20 14:23			
2,4,5,6-TCMX (Surr) [2C]	77.5	52	42 - 129	5.872	5.981444	-0.1094	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	77.5	98	55 - 130	10.405	10.53678	-0.1318	+/-1.0	
Calibration Check (0B20033-CCV5)			Lab File ID: ECD8-02202019.D		Analyzed: 02/20/20 16:28			
2,4,5,6-TCMX (Surr)	100	88	80 - 120	5.173	5.297333	-0.1243	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	92	80 - 120	5.873	5.981444	-0.1084	+/-1.0	
Decachlorobiphenyl (Surr)	100	92	80 - 120	9.374	9.506889	-0.1329	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	101	80 - 120	10.405	10.53678	-0.1318	+/-1.0	
Calibration Blank (0B20033-CCB2)			Lab File ID: ECD8-02202022.D		Analyzed: 02/20/20 17:19			
2,4,5,6-TCMX (Surr) [2C]	100	88	25 - 140	5.872	5.981444	-0.1094	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	99	30 - 135	10.407	10.53678	-0.1298	+/-1.0	
Calibration Check (0B20033-CCV8)			Lab File ID: ECD8-02202032.D		Analyzed: 02/20/20 20:10			
2,4,5,6-TCMX (Surr)	50.0	83	80 - 120	5.172	5.297333	-0.1253	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	91	80 - 120	5.87	5.981444	-0.1114	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	91	80 - 120	9.375	9.506889	-0.1319	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	103	80 - 120	10.406	10.53678	-0.1308	+/-1.0	
Calibration Blank (0B20033-CCB3)			Lab File ID: ECD8-02202034.D		Analyzed: 02/20/20 20:44			
2,4,5,6-TCMX (Surr) [2C]	100	87	25 - 140	5.871	5.981444	-0.1104	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	97	30 - 135	10.404	10.53678	-0.1328	+/-1.0	
PDI-057SC-A-07-08-191023 (A0A1011-02RE1)			Lab File ID: ECD8-02202042.D		Analyzed: 02/20/20 23:06			
2,4,5,6-TCMX (Surr) [2C]	174	75	42 - 129	5.869	5.981444	-0.1124	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	174	104	55 - 130	10.398	10.53678	-0.1388	+/-1.0	
Matrix Spike (0020205-MS1)			Lab File ID: ECD8-02202044.D		Analyzed: 02/20/20 23:43			
2,4,5,6-TCMX (Surr) [2C]	175	68	42 - 129	5.869	5.981444	-0.1124	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	175	112	55 - 130	10.398	10.53678	-0.1388	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	0B20033	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (0020205-MSD1)			Lab File ID: ECD8-02202046.D		Analyzed: 02/21/20 00:21			
2,4,5,6-TCMX (Surr) [2C]	175	80	42 - 129	5.868	5.981444	-0.1134	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	175	109	55 - 130	10.398	10.53678	-0.1388	+/-1.0	
Calibration Check (0B20033-CCVA)			Lab File ID: ECD8-02202048.D		Analyzed: 02/21/20 00:58			
2,4,5,6-TCMX (Surr)	100	83	80 - 120	5.168	5.297333	-0.1293	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	93	80 - 120	5.868	5.981444	-0.1134	+/-1.0	
Decachlorobiphenyl (Surr)	100	96	80 - 120	9.369	9.506889	-0.1379	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	106	80 - 120	10.399	10.53678	-0.1378	+/-1.0	
Calibration Blank (0B20033-CCB4)			Lab File ID: ECD8-02202050.D		Analyzed: 02/21/20 01:32			
2,4,5,6-TCMX (Surr) [2C]	100	89	25 - 140	5.867	5.981444	-0.1144	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	30 - 135	10.4	10.53678	-0.1368	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B21033	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B21033-CCV3)			Lab File ID: ECD8-02212021.D		Analyzed: 02/21/20 17:05			
2,4,5,6-TCMX (Surr)	50.0	93	80 - 120	5.391	5.297333	0.0937	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	103	80 - 120	6.091	5.981444	0.1096	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	93	80 - 120	9.586	9.506889	0.0791	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	95	80 - 120	10.659	10.53678	0.1222	+/-1.0	
Calibration Blank (0B21033-CCB3)			Lab File ID: ECD8-02212023.D		Analyzed: 02/21/20 17:38			
2,4,5,6-TCMX (Surr) [2C]	100	105	42 - 129	6.092	5.981444	0.1106	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	96	55 - 130	10.659	10.53678	0.1222	+/-1.0	
PDI-057SC-A-06-07-191023 (A0A1011-01RE1)			Lab File ID: ECD8-02212042.D		Analyzed: 02/21/20 23:44			
2,4,5,6-TCMX (Surr) [2C]	168	67	42 - 129	6.086	5.981444	0.1046	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	168	93	55 - 130	10.648	10.53678	0.1112	+/-1.0	
Calibration Check (0B21033-CCV5)			Lab File ID: ECD8-02212044.D		Analyzed: 02/22/20 00:22			
2,4,5,6-TCMX (Surr)	100	87	80 - 120	5.384	5.297333	0.0867	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	103	80 - 120	6.087	5.981444	0.1056	+/-1.0	
Decachlorobiphenyl (Surr)	100	100	80 - 120	9.577	9.506889	0.0701	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	106	80 - 120	10.648	10.53678	0.1112	+/-1.0	
Calibration Blank (0B21033-CCB4)			Lab File ID: ECD8-02212046.D		Analyzed: 02/22/20 00:55			
2,4,5,6-TCMX (Surr) [2C]	100	107	42 - 129	6.086	5.981444	0.1046	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	103	55 - 130	10.65	10.53678	0.1132	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-057SC-A-06-07-191023	10/23/19 13:01	10/24/19 10:10	01/31/20 10:20	99.89	14.00	02/21/20 23:44	21.56	40.00	*
PDI-057SC-A-07-08-191023	10/23/19 13:01	10/24/19 10:10	01/31/20 10:20	99.89	14.00	02/20/20 23:06	20.53	40.00	*
PDI-057SC-A-08-09-191023	10/23/19 13:01	10/24/19 10:10	02/04/20 10:33	103.90	14.00	02/20/20 14:23	16.16	40.00	*
PDI-062SC-A-08-09-191023	10/23/19 09:33	10/24/19 10:10	02/04/20 10:33	104.04	14.00	02/14/20 23:33	10.54	40.00	*
PDI-062SC-A-09-10-191023	10/23/19 09:33	10/24/19 10:10	02/04/20 10:33	104.04	14.00	02/15/20 00:11	10.57	40.00	*
PDI-062SC-A-10-11-191023	10/23/19 09:33	10/24/19 10:10	02/04/20 10:33	104.04	14.00	02/14/20 17:10	10.28	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8270D

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-057SC-A-06-07-191023	A0A1011-01	Sediment
PDI-057SC-A-07-08-191023	A0A1011-02	Sediment
PDI-057SC-A-08-09-191023	A0A1011-03	Sediment
PDI-062SC-A-08-09-191023	A0A1011-04	Sediment
PDI-062SC-A-09-10-191023	A0A1011-05	Sediment
PDI-062SC-A-10-11-191023	A0A1011-06	Sediment

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

Signature: 
Name: David G. Jack

Forms Created: 3/7/2020 11:55AM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

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

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

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-057SC-A-06-07-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-01	File ID:	N02032005.D
Sampled:	10/23/19 13:01	Prepared:	01/31/20 07:07	Analyzed:	02/03/20 10:36
Solids:	56.36	Preparation:	EPA 3546	Initial/Final:	10.16 g / 5 mL
Batch:	0010978	Sequence:	0B03036	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	9590	D
208-96-8	Acenaphthylene	1000	2180	U
120-12-7	Anthracene	1000	5150	D
56-55-3	Benz(a)anthracene	1000	3640	JD
50-32-8	Benzo(a)pyrene	1000	5330	D
205-99-2	Benzo(b)fluoranthene	1000	4360	JD
207-08-9	Benzo(k)fluoranthene	1000	2180	U
191-24-2	Benzo(g,h,i)perylene	1000	5260	D
218-01-9	Chrysene	1000	5000	D
53-70-3	Dibenz(a,h)anthracene	1000	2180	U
206-44-0	Fluoranthene	1000	17800	D
86-73-7	Fluorene	1000	3960	JD
193-39-5	Indeno(1,2,3-cd)pyrene	1000	4250	JD
91-57-6	2-Methylnaphthalene	1000	2180	U
91-20-3	Naphthalene	1000	2850	JD
85-01-8	Phenanthrene	1000	25800	D
129-00-0	Pyrene	1000	19900	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	87.3	41.9	48	44 - 115	D
p-Terphenyl-d14 (Surr)	87.3	96.9	111	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	139757	7.755	184696	7.749	
Acenaphthene-d10 (ISTD)	96909	9.504	111659	9.503	
Phenanthrene-d10 (ISTD)	176444	11.013	202803	11.013	
Chrysene-d12 (ISTD)	153684	14.668	165369	14.668	
Perylene-d12 (ISTD)	150047	18.124	154461	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	120298	20.508	119262	20.514	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-057SC-A-07-08-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-02	File ID:	N02032006.D
Sampled:	10/23/19 13:01	Prepared:	01/31/20 07:07	Analyzed:	02/03/20 11:08
Solids:	56.65	Preparation:	EPA 3546	Initial/Final:	10.33 g / 5 mL
Batch:	0010978	Sequence:	0B03036	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	6010	D
208-96-8	Acenaphthylene	1000	2140	U
120-12-7	Anthracene	1000	7150	D
56-55-3	Benz(a)anthracene	1000	9680	D
50-32-8	Benzo(a)pyrene	1000	16700	D
205-99-2	Benzo(b)fluoranthene	1000	14000	D
207-08-9	Benzo(k)fluoranthene	1000	5030	D
191-24-2	Benzo(g,h,i)perylene	1000	16800	D
218-01-9	Chrysene	1000	13000	D
53-70-3	Dibenz(a,h)anthracene	1000	2140	U
206-44-0	Fluoranthene	1000	36300	D
86-73-7	Fluorene	1000	2980	JD
193-39-5	Indeno(1,2,3-cd)pyrene	1000	13700	D
91-57-6	2-Methylnaphthalene	1000	2140	U
91-20-3	Naphthalene	1000	2610	JD
85-01-8	Phenanthrene	1000	30900	D
129-00-0	Pyrene	1000	39000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	85.4	54.7	64	44 - 115	D
p-Terphenyl-d14 (Surr)	85.4	108	126	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	138317	7.755	184696	7.749	
Acenaphthene-d10 (ISTD)	93181	9.503	111659	9.503	
Phenanthrene-d10 (ISTD)	172438	11.013	202803	11.013	
Chrysene-d12 (ISTD)	156039	14.668	165369	14.668	
Perylene-d12 (ISTD)	155652	18.124	154461	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	125731	20.508	119262	20.514	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-057SC-A-08-09-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-03	File ID:	N02032007.D
Sampled:	10/23/19 13:01	Prepared:	01/31/20 07:07	Analyzed:	02/03/20 11:40
Solids:	60.21	Preparation:	EPA 3546	Initial/Final:	10.73 g / 5 mL
Batch:	0010978	Sequence:	0B03036	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	1530	D
208-96-8	Acenaphthylene	100	385	JD
120-12-7	Anthracene	100	748	D
56-55-3	Benz(a)anthracene	100	1100	D
50-32-8	Benzo(a)pyrene	100	2280	D
205-99-2	Benzo(b)fluoranthene	100	1880	D
207-08-9	Benzo(k)fluoranthene	100	664	D
191-24-2	Benzo(g,h,i)perylene	100	2830	D
218-01-9	Chrysene	100	1520	D
53-70-3	Dibenz(a,h)anthracene	100	193	U
206-44-0	Fluoranthene	100	6740	D
86-73-7	Fluorene	100	532	D
193-39-5	Indeno(1,2,3-cd)pyrene	100	2000	D
91-57-6	2-Methylnaphthalene	100	520	D
91-20-3	Naphthalene	100	1830	D
85-01-8	Phenanthrene	100	5330	D
129-00-0	Pyrene	100	8030	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	77.4	60.1	78	44 - 115	D
p-Terphenyl-d14 (Surr)	77.4	61.5	80	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	142637	7.755	184696	7.749	
Acenaphthene-d10 (ISTD)	93741	9.503	111659	9.503	
Phenanthrene-d10 (ISTD)	164686	11.013	202803	11.013	
Chrysene-d12 (ISTD)	134661	14.668	165369	14.668	
Perylene-d12 (ISTD)	136750	18.124	154461	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	104838	20.508	119262	20.514	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-062SC-A-08-09-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-04	File ID:	N02042017.D
Sampled:	10/23/19 09:33	Prepared:	02/04/20 10:35	Analyzed:	02/04/20 17:21
Solids:	62.67	Preparation:	EPA 3546	Initial/Final:	10.11 g / 5 mL
Batch:	0020080	Sequence:	0B04047	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	20400	D
208-96-8	Acenaphthylene	1000	1970	U
120-12-7	Anthracene	1000	19100	D
56-55-3	Benz(a)anthracene	1000	17200	D
50-32-8	Benzo(a)pyrene	1000	26100	D
205-99-2	Benzo(b)fluoranthene	1000	21500	D
207-08-9	Benzo(k)fluoranthene	1000	7510	D
191-24-2	Benzo(g,h,i)perylene	1000	24000	D
218-01-9	Chrysene	1000	22700	D
53-70-3	Dibenz(a,h)anthracene	1000	1970	U
206-44-0	Fluoranthene	1000	75700	D
86-73-7	Fluorene	1000	9170	D
193-39-5	Indeno(1,2,3-cd)pyrene	1000	18700	D
91-57-6	2-Methylnaphthalene	1000	1970	U
91-20-3	Naphthalene	1000	7480	D
85-01-8	Phenanthrene	1000	75400	D
129-00-0	Pyrene	1000	88900	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	78.9	103	130	44 - 115	D
p-Terphenyl-d14 (Surr)	78.9	156	198	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	165768	7.755	181183	7.755	
Acenaphthene-d10 (ISTD)	103726	9.504	112110	9.504	
Phenanthrene-d10 (ISTD)	188109	11.013	204970	11.013	
Chrysene-d12 (ISTD)	155413	14.668	159617	14.668	
Perylene-d12 (ISTD)	151173	18.124	144093	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	121031	20.508	121986	20.508	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-062SC-A-09-10-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-05	File ID:	N02042018.D
Sampled:	10/23/19 09:33	Prepared:	02/04/20 10:35	Analyzed:	02/04/20 17:53
Solids:	80.02	Preparation:	EPA 3546	Initial/Final:	10.5 g / 5 mL
Batch:	0020080	Sequence:	0B04047	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	2780	D
208-96-8	Acenaphthylene	100	214	JD
120-12-7	Anthracene	100	607	D
56-55-3	Benz(a)anthracene	100	1140	D
50-32-8	Benzo(a)pyrene	100	2030	D
205-99-2	Benzo(b)fluoranthene	100	1700	D
207-08-9	Benzo(k)fluoranthene	100	548	D
191-24-2	Benzo(g,h,i)perylene	100	2060	D
218-01-9	Chrysene	100	1550	D
53-70-3	Dibenz(a,h)anthracene	100	149	JD
206-44-0	Fluoranthene	100	5340	D
86-73-7	Fluorene	100	957	D
193-39-5	Indeno(1,2,3-cd)pyrene	100	1590	D
91-57-6	2-Methylnaphthalene	100	152	JD
91-20-3	Naphthalene	100	480	D
85-01-8	Phenanthrene	100	5830	D
129-00-0	Pyrene	100	6310	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	59.5	50.9	86	44 - 115	D
p-Terphenyl-d14 (Surr)	59.5	55.1	93	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	166778	7.755	181183	7.755	
Acenaphthene-d10 (ISTD)	106652	9.509	112110	9.504	
Phenanthrene-d10 (ISTD)	191677	11.013	204970	11.013	
Chrysene-d12 (ISTD)	157944	14.668	159617	14.668	
Perylene-d12 (ISTD)	155226	18.13	144093	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	120022	20.514	121986	20.508	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-062SC-A-10-11-191023

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A0A1011-06	File ID:	N02042021.D
Sampled:	10/23/19 09:33	Prepared:	02/04/20 10:35	Analyzed:	02/04/20 19:28
Solids:	80.81	Preparation:	EPA 3546	Initial/Final:	10.4 g / 5 mL
Batch:	0020080	Sequence:	0B04047	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1	84.8	
208-96-8	Acenaphthylene	1	4.15	
120-12-7	Anthracene	1	4.73	
56-55-3	Benz(a)anthracene	1	2.99	
50-32-8	Benzo(a)pyrene	1	4.98	
205-99-2	Benzo(b)fluoranthene	1	4.57	
207-08-9	Benzo(k)fluoranthene	1	1.53	J
191-24-2	Benzo(g,h,i)perylene	1	5.67	
218-01-9	Chrysene	1	4.64	
53-70-3	Dibenz(a,h)anthracene	1	1.49	U
206-44-0	Fluoranthene	1	21.7	
86-73-7	Fluorene	1	29.1	
193-39-5	Indeno(1,2,3-cd)pyrene	1	4.71	
91-57-6	2-Methylnaphthalene	1	26.3	
91-20-3	Naphthalene	1	25.1	
85-01-8	Phenanthrene	1	103	
129-00-0	Pyrene	1	32.5	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	59.5	49.8	84	44 - 115	
p-Terphenyl-d14 (Surr)	59.5	54.3	91	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	171523	7.755	181183	7.755	
Acenaphthene-d10 (ISTD)	111454	9.509	112110	9.504	
Phenanthrene-d10 (ISTD)	195002	11.013	204970	11.013	
Chrysene-d12 (ISTD)	146691	14.668	159617	14.668	
Perylene-d12 (ISTD)	134987	18.13	144093	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	99404	20.514	121986	20.508	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0010978 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0010978-BLK1	N01312004.D	01/31/20 07:07	
LCS	0010978-BS1	N01312005.D	01/31/20 07:07	
PDI-057SC-A-06-07-191023	A0A1011-01	N02032005.D	01/31/20 07:07	
PDI-057SC-A-07-08-191023	A0A1011-02	N02032006.D	01/31/20 07:07	
PDI-057SC-A-08-09-191023	A0A1011-03	N02032007.D	01/31/20 07:07	

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

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020080 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020080-BLK1	N02042013.D	02/04/20 11:07	
LCS	0020080-BS1	N02042014.D	02/04/20 11:07	
PDI-062SC-A-09-10-191023 (MS)	0020080-MS1	N02042019.D	02/04/20 11:07	
PDI-062SC-A-09-10-191023 (MSD)	0020080-MSD1	N02042020.D	02/04/20 11:07	
PDI-062SC-A-08-09-191023	A0A1011-04	N02042017.D	02/04/20 10:35	
PDI-062SC-A-09-10-191023	A0A1011-05	N02042018.D	02/04/20 10:35	
PDI-062SC-A-10-11-191023	A0A1011-06	N02042021.D	02/04/20 10:35	

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

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0010978-BLK1	File ID:	N01312004.D
Prepared:	01/31/20 07:07	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	01/31/20 11:51	Instrument:	SV-GCMS14		
Batch:	0010978	Sequence:	0A31025	Calibration:	A9I1001

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	1.17	J
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	37.2	82	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	36.3	80	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	183426	7.755	173778	7.755	
Acenaphthene-d10 (ISTD)	110333	9.509	110800	9.509	
Phenanthrene-d10 (ISTD)	184944	11.013	217646	11.013	
Chrysene-d12 (ISTD)	154614	14.668	198181	14.668	
Perylene-d12 (ISTD)	144320	18.124	191827	18.13	
Dibenz(a,h)anthracene-d14 (ISTD)	115816	20.514	153811	20.514	

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020080-BLK1	File ID:	N02042013.D
Prepared:	02/04/20 11:07	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	02/04/20 15:14	Instrument:	SV-GCMS14		
Batch:	0020080	Sequence:	0B04047	Calibration:	A9I1001

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	38.1	84	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	39.0	86	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	182803	7.755	181183	7.755	
Acenaphthene-d10 (ISTD)	113469	9.504	112110	9.504	
Phenanthrene-d10 (ISTD)	212849	11.013	204970	11.013	
Chrysene-d12 (ISTD)	189224	14.668	159617	14.668	
Perylene-d12 (ISTD)	182897	18.124	144093	18.124	
Dibenz(a,h)anthracene-d14 (ISTD)	156891	20.514	121986	20.508	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0010978	Laboratory ID:	0010978-BS1
Preparation:	EPA 3546	Initial/Final:	10 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	20.0	16.0	80	40 - 122
Acenaphthylene	20.0	14.0	70	32 - 132
Anthracene	20.0	15.1	75	47 - 123
Benz(a)anthracene	20.0	14.0	70	49 - 126
Benzo(a)pyrene	20.0	14.4	72	45 - 129
Benzo(b)fluoranthene	20.0	14.4	72	45 - 132
Benzo(k)fluoranthene	20.0	14.9	74	47 - 132
Benzo(g,h,i)perylene	20.0	14.7	74	43 - 134
Chrysene	20.0	15.6	78	50 - 124
Dibenz(a,h)anthracene	20.0	14.7	74	45 - 134
Fluoranthene	20.0	16.6	83	50 - 127
Fluorene	20.0	15.2	76	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	14.9	74	45 - 133
2-Methylnaphthalene	20.0	14.1	70	38 - 122
Naphthalene	20.0	18.8	94	35 - 123
Phenanthrene	20.0	17.7	88	50 - 121
Pyrene	20.0	14.8	74	47 - 127

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020080	Laboratory ID:	0020080-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	17.4	87	40 - 122
Acenaphthylene	20.0	16.7	83	32 - 132
Anthracene	20.0	16.6	83	47 - 123
Benz(a)anthracene	20.0	16.4	82	49 - 126
Benzo(a)pyrene	20.0	16.9	85	45 - 129
Benzo(b)fluoranthene	20.0	17.2	86	45 - 132
Benzo(k)fluoranthene	20.0	17.0	85	47 - 132
Benzo(g,h,i)perylene	20.0	16.5	83	43 - 134
Chrysene	20.0	17.5	88	50 - 124
Dibenz(a,h)anthracene	20.0	16.7	83	45 - 134
Fluoranthene	20.0	18.3	92	50 - 127
Fluorene	20.0	17.0	85	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	16.3	82	45 - 133
2-Methylnaphthalene	20.0	15.5	77	38 - 122
Naphthalene	20.0	18.2	91	35 - 123
Phenanthrene	20.0	17.6	88	50 - 121
Pyrene	20.0	18.0	90	47 - 127

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-062SC-A-09-10-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020080	Laboratory ID:	0020080-MS1
Preparation:	EPA 3546	Initial/Final:	10.48 g / 5 mL

Source Sample Name: PDI-062SC-A-09-10-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	23.8	2780	2650	-534 *	40 - 122
Acenaphthylene	23.8	214	214	-0.3 *	32 - 132
Anthracene	23.8	607	470	-573 *	47 - 123
Benz(a)anthracene	23.8	1140	746	-1650 *	49 - 126
Benzo(a)pyrene	23.8	2030	1160	-3650 *	45 - 129
Benzo(b)fluoranthene	23.8	1700	973	-3050 *	45 - 132
Benzo(k)fluoranthene	23.8	548	355	-809 *	47 - 132
Benzo(g,h,i)perylene	23.8	2060	1060	-4210 *	43 - 134
Chrysene	23.8	1550	954	-2480 *	50 - 124
Dibenz(a,h)anthracene	23.8	149	ND	*	45 - 134
Fluoranthene	23.8	5340	4020	-5560 *	50 - 127
Fluorene	23.8	957	986	122	43 - 125
Indeno(1,2,3-cd)pyrene	23.8	1590	845	-3110 *	45 - 133
2-Methylnaphthalene	23.8	152	180	117	38 - 122
Naphthalene	23.8	480	610	546 *	35 - 123
Phenanthrene	23.8	5830	5400	-1800 *	50 - 121
Pyrene	23.8	6310	4630	-7070 *	47 - 127

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

PDI-062SC-A-09-10-191023

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020080	Laboratory ID:	0020080-MSD1
Preparation:	EPA 3546	Initial/Final:	10.45 g / 5 mL

Source Sample Name: PDI-062SC-A-09-10-191023

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	23.9	1740	-4330 *	41 *	30	40 - 122
Acenaphthylene	23.9	164	-208 *	26	30	32 - 132
Anthracene	23.9	373	-977 *	23	30	47 - 123
Benz(a)anthracene	23.9	567	-2400 *	27	30	49 - 126
Benzo(a)pyrene	23.9	855	-4930 *	31 *	30	45 - 129
Benzo(b)fluoranthene	23.9	738	-4020 *	27	30	45 - 132
Benzo(k)fluoranthene	23.9	250	-1250 *	35 *	30	47 - 132
Benzo(g,h,i)perylene	23.9	787	-5340 *	30	30	43 - 134
Chrysene	23.9	757	-3300 *	23	30	50 - 124
Dibenz(a,h)anthracene	23.9	ND	*		30	45 - 134
Fluoranthene	23.9	3420	-8030 *	16	30	50 - 127
Fluorene	23.9	664	-1220 *	39 *	30	43 - 125
Indeno(1,2,3-cd)pyrene	23.9	629	-4010 *	29	30	45 - 133
2-Methylnaphthalene	23.9	ND	-634 *	200 *	30	38 - 122
Naphthalene	23.9	410	-292 *	39 *	30	35 - 123
Phenanthrene	23.9	4500	-5520 *	18	30	50 - 121
Pyrene	23.9	3920	-10000 *	17	30	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A31025	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0A31025-TUN1	N01312001.D	01/31/20 10:17
Calibration Check	0A31025-CCV1	N01312002.D	01/31/20 10:45
Calibration Blank	0A31025-CCB1	N01312003.D	01/31/20 11:18
Blank	0010978-BLK1	N01312004.D	01/31/20 11:51
LCS	0010978-BS1	N01312005.D	01/31/20 12:23

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 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B03036	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B03036-TUN1	N02032001.D	02/03/20 08:23
Calibration Check	0B03036-CCV1	N02032002.D	02/03/20 08:50
Calibration Blank	0B03036-CCB1	N02032003.D	02/03/20 09:26
PDI-057SC-A-06-07-191023	A0A1011-01	N02032005.D	02/03/20 10:36
PDI-057SC-A-07-08-191023	A0A1011-02	N02032006.D	02/03/20 11:08
PDI-057SC-A-08-09-191023	A0A1011-03	N02032007.D	02/03/20 11:40

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.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B04047	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B04047-TUN1	N02042010.D	02/04/20 13:43
Calibration Check	0B04047-CCV1	N02042011.D	02/04/20 14:10
Calibration Blank	0B04047-CCB1	N02042012.D	02/04/20 14:42
Blank	0020080-BLK1	N02042013.D	02/04/20 15:14
LCS	0020080-BS1	N02042014.D	02/04/20 15:46
PDI-062SC-A-08-09-191023	A0A1011-04	N02042017.D	02/04/20 17:21
PDI-062SC-A-09-10-191023	A0A1011-05	N02042018.D	02/04/20 17:53
PDI-062SC-A-09-10-191023 (MS)	0020080-MS1	N02042019.D	02/04/20 18:24
PDI-062SC-A-09-10-191023 (MSD)	0020080-MSD1	N02042020.D	02/04/20 18:56
PDI-062SC-A-10-11-191023	A0A1011-06	N02042021.D	02/04/20 19:28

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9I06028	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

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

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	N01312001.D	Injection Date:	01/31/20
Instrument ID:	SV-GCMS14	Injection Time:	10:17
Sequence:	0A31025	Lab Sample ID:	0A31025-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.57	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.53	PASS
m/z 197	Less than 2% of m/z 198	0.55	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.76	PASS
m/z 365	1 - 100% of m/z 198	3.89	PASS
m/z 441	Less than 150% of m/z 443	77.14	PASS
m/z 442	0.1 - 200% of m/z 198	124.41	PASS
m/z 443	15 - 24% of m/z 442	19.47	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	N02032001.D	Injection Date:	02/03/20
Instrument ID:	SV-GCMS14	Injection Time:	08:23
Sequence:	0B03036	Lab Sample ID:	0B03036-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.62	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.47	PASS
m/z 197	Less than 2% of m/z 198	0.52	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.80	PASS
m/z 365	1 - 100% of m/z 198	3.91	PASS
m/z 441	Less than 150% of m/z 443	77.54	PASS
m/z 442	0.1 - 200% of m/z 198	127.43	PASS
m/z 443	15 - 24% of m/z 442	19.41	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	N02042010.D	Injection Date:	02/04/20
Instrument ID:	SV-GCMS14	Injection Time:	13:43
Sequence:	0B04047	Lab Sample ID:	0B04047-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.70	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.49	PASS
m/z 197	Less than 2% of m/z 198	0.54	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.81	PASS
m/z 365	1 - 100% of m/z 198	4.13	PASS
m/z 441	Less than 150% of m/z 443	78.16	PASS
m/z 442	0.1 - 200% of m/z 198	135.73	PASS
m/z 443	15 - 24% of m/z 442	19.18	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Lab File ID:	N09061911.D	Injection Date:	09/06/19
Instrument ID:	SV-GCMS14	Injection Time:	15:51
Sequence:	9I06028	Lab Sample ID:	9I06028-TUN1

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

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A9I1001 Date: 09/10/19 10:37 Instrument: SV-GCMS14

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

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

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A9I1001

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te

Instrument: SV-GCMS14

Calibration Date: 09/10/19 10:37

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

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A9I1001
Instrument: SV-GCMS14
Matrix:
Calibration Date: 09/10/19 10:37

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

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

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

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS14	Calibration:	A9I1001
Lab File ID:	N01312002.D	Calibration Date:	09/10/19 10:37
Sequence:	0A31025	Injection Date:	01/31/20
Lab Sample ID:	0A31025-CCV1	Injection Time:	10:45

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	47.7		1.421956	1.357834	-4.5	20
Acenaphthylene	Ave	50.0	46.1		2.170985	2.003394	-7.7	20
Anthracene	Ave	50.0	47.6		1.088444	1.036582	-4.8	20
Benz(a)anthracene	Ave	50.0	44.6		1.161023	1.036053	-10.8	20
Benzo(a)pyrene	Ave	50.0	47.5		0.9876419	0.9380014	-5.0	20
Benzo(b)fluoranthene	Ave	50.0	45.8		1.153887	1.057515	-8.4	20
Benzo(k)fluoranthene	Ave	50.0	46.4		1.136093	1.054096	-7.2	20
Benzo(g,h,i)perylene	Ave	50.0	45.5		1.308305	1.190513	-9.0	20
Chrysene	Ave	50.0	46.7		1.098706	1.026486	-6.6	20
Dibenz(a,h)anthracene	Ave	50.0	46.6		1.158853	1.080859	-6.7	20
Fluoranthene	Ave	50.0	50.3		1.178979	1.18497	0.5	20
Fluorene	Ave	50.0	49.0		1.455085	1.4263	-2.0	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	45.1		1.233305	1.112352	-9.8	20
2-Methylnaphthalene	Ave	50.0	42.5		0.9346173	0.7939095	-15.1	20
Naphthalene	Ave	50.0	49.2		1.102926	1.084476	-1.7	20
Phenanthrene	Ave	50.0	48.4		1.170171	1.13215	-3.2	20
Pyrene	Ave	50.0	43.3		1.562337	1.351663	-13.5	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS14	Calibration:	A9I1001
Lab File ID:	N02032002.D	Calibration Date:	09/10/19 10:37
Sequence:	0B03036	Injection Date:	02/03/20
Lab Sample ID:	0B03036-CCV1	Injection Time:	08:50

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	47.7		1.421956	1.356218	-4.6	20
Acenaphthylene	Ave	50.0	46.8		2.170985	2.030933	-6.5	20
Anthracene	Ave	50.0	45.5		1.088444	0.9911392	-8.9	20
Benz(a)anthracene	Ave	50.0	43.3		1.161023	1.005013	-13.4	20
Benzo(a)pyrene	Ave	50.0	46.3		0.9876419	0.913797	-7.5	20
Benzo(b)fluoranthene	Ave	50.0	46.2		1.153887	1.065512	-7.7	20
Benzo(k)fluoranthene	Ave	50.0	46.3		1.136093	1.051372	-7.5	20
Benzo(g,h,i)perylene	Ave	50.0	46.5		1.308305	1.216834	-7.0	20
Chrysene	Ave	50.0	46.9		1.098706	1.031378	-6.1	20
Dibenz(a,h)anthracene	Ave	50.0	46.9		1.158853	1.086616	-6.2	20
Fluoranthene	Ave	50.0	50.4		1.178979	1.18872	0.8	20
Fluorene	Ave	50.0	45.5		1.455085	1.325285	-8.9	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	45.1		1.233305	1.112576	-9.8	20
2-Methylnaphthalene	Ave	50.0	40.6		0.9346173	0.7585438	-18.8	20
Naphthalene	Ave	50.0	48.7		1.102926	1.074284	-2.6	20
Phenanthrene	Ave	50.0	47.8		1.170171	1.11954	-4.3	20
Pyrene	Ave	50.0	48.5		1.562337	1.515387	-3.0	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Instrument ID:	SV-GCMS14	Calibration:	A9I1001
Lab File ID:	N02042011.D	Calibration Date:	09/10/19 10:37
Sequence:	0B04047	Injection Date:	02/04/20
Lab Sample ID:	0B04047-CCV1	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	
Acenaphthene	Ave	50.0	47.9		1.421956	1.362465	-4.2	20
Acenaphthylene	Ave	50.0	46.6		2.170985	2.02312	-6.8	20
Anthracene	Ave	50.0	46.1		1.088444	1.003327	-7.8	20
Benz(a)anthracene	Ave	50.0	42.9		1.161023	0.9961596	-14.2	20
Benzo(a)pyrene	Ave	50.0	46.6		0.9876419	0.9204056	-6.8	20
Benzo(b)fluoranthene	Ave	50.0	45.7		1.153887	1.054638	-8.6	20
Benzo(k)fluoranthene	Ave	50.0	46.3		1.136093	1.051404	-7.5	20
Benzo(g,h,i)perylene	Ave	50.0	43.0		1.308305	1.124391	-14.1	20
Chrysene	Ave	50.0	46.0		1.098706	1.011709	-7.9	20
Dibenz(a,h)anthracene	Ave	50.0	45.8		1.158853	1.062548	-8.3	20
Fluoranthene	Ave	50.0	47.9		1.178979	1.130595	-4.1	20
Fluorene	Ave	50.0	46.6		1.455085	1.356025	-6.8	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	43.1		1.233305	1.064139	-13.7	20
2-Methylnaphthalene	Ave	50.0	41.3		0.9346173	0.7723462	-17.4	20
Naphthalene	Ave	50.0	48.7		1.102926	1.07371	-2.6	20
Phenanthrene	Ave	50.0	46.7		1.170171	1.093955	-6.5	20
Pyrene	Ave	50.0	49.3		1.562337	1.540838	-1.4	20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A31025	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0A31025-CCV1)			Lab File ID: N01312002.D		Analyzed: 01/31/20 10:45			
2-Fluorobiphenyl (Surr)	50.0	108	80 - 120	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	92	80 - 120	12.756	12.9315	-0.1755	+/-1.0	
Calibration Blank (0A31025-CCB1)			Lab File ID: N01312003.D		Analyzed: 01/31/20 11:18			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	
Blank (0010978-BLK1)			Lab File ID: N01312004.D		Analyzed: 01/31/20 11:51			
2-Fluorobiphenyl (Surr)	45.5	82	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	80	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
LCS (0010978-BS1)			Lab File ID: N01312005.D		Analyzed: 01/31/20 12:23			
2-Fluorobiphenyl (Surr)	50.0	80	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	74	54 - 127	12.756	12.9315	-0.1755	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B03036	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B03036-CCV1)			Lab File ID: N02032002.D		Analyzed: 02/03/20 08:50			
2-Fluorobiphenyl (Surr)	50.0	105	80 - 120	8.816	8.9523	-0.1363	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	91	80 - 120	12.756	12.9315	-0.1755	+/-1.0	
Calibration Blank (0B03036-CCB1)			Lab File ID: N02032003.D		Analyzed: 02/03/20 09:26			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	
PDI-057SC-A-06-07-191023 (A0A1011-01)			Lab File ID: N02032005.D		Analyzed: 02/03/20 10:36			
2-Fluorobiphenyl (Surr)	87.3	48	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	87.3	111	54 - 127	12.762	12.9315	-0.1695	+/-1.0	
PDI-057SC-A-07-08-191023 (A0A1011-02)			Lab File ID: N02032006.D		Analyzed: 02/03/20 11:08			
2-Fluorobiphenyl (Surr)	85.4	64	44 - 115	8.827	8.9523	-0.1253	+/-1.0	
p-Terphenyl-d14 (Surr)	85.4	126	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-057SC-A-08-09-191023 (A0A1011-03)			Lab File ID: N02032007.D		Analyzed: 02/03/20 11:40			
2-Fluorobiphenyl (Surr)	77.4	78	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	77.4	80	54 - 127	12.756	12.9315	-0.1755	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B04047	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B04047-CCV1)			Lab File ID: N02042011.D		Analyzed: 02/04/20 14:10			
2-Fluorobiphenyl (Surr)	50.0	102	80 - 120	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	94	80 - 120	12.756	12.9315	-0.1755	+/-1.0	
Calibration Blank (0B04047-CCB1)			Lab File ID: N02042012.D		Analyzed: 02/04/20 14:42			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	
Blank (0020080-BLK1)			Lab File ID: N02042013.D		Analyzed: 02/04/20 15:14			
2-Fluorobiphenyl (Surr)	45.5	84	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	86	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
LCS (0020080-BS1)			Lab File ID: N02042014.D		Analyzed: 02/04/20 15:46			
2-Fluorobiphenyl (Surr)	50.0	89	44 - 115	8.816	8.9523	-0.1363	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	88	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-062SC-A-08-09-191023 (A0A1011-04)			Lab File ID: N02042017.D		Analyzed: 02/04/20 17:21			
2-Fluorobiphenyl (Surr)	78.9	130	44 - 115	8.822	8.9523	-0.1303	+/-1.0	*
p-Terphenyl-d14 (Surr)	78.9	198	54 - 127	12.756	12.9315	-0.1755	+/-1.0	*
PDI-062SC-A-09-10-191023 (A0A1011-05)			Lab File ID: N02042018.D		Analyzed: 02/04/20 17:53			
2-Fluorobiphenyl (Surr)	59.5	86	44 - 115	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	59.5	93	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Matrix Spike (0020080-MS1)			Lab File ID: N02042019.D		Analyzed: 02/04/20 18:24			
2-Fluorobiphenyl (Surr)	59.6	87	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	59.6	90	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Matrix Spike Dup (0020080-MSD1)			Lab File ID: N02042020.D		Analyzed: 02/04/20 18:56			
2-Fluorobiphenyl (Surr)	59.8	63	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	59.8	83	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-062SC-A-10-11-191023 (A0A1011-06)			Lab File ID: N02042021.D		Analyzed: 02/04/20 19:28			
2-Fluorobiphenyl (Surr)	59.5	84	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	59.5	91	54 - 127	12.756	12.9315	-0.1755	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9I06028	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

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

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B03036	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0B03036-CCV1)			Lab File ID: N02032002.D			Analyzed: 02/03/20 08:50			
Naphthalene-d8 (ISTD)	184696	7.749	148351	7.883	124	50 - 200	-0.1340	+/-0.50	
Acenaphthene-d10 (ISTD)	111659	9.503	117951	9.638	95	50 - 200	-0.1350	+/-0.50	
Phenanthrene-d10 (ISTD)	202803	11.013	219661	11.147	92	50 - 200	-0.1340	+/-0.50	
Chrysene-d12 (ISTD)	165369	14.668	169841	14.907	97	50 - 200	-0.2390	+/-0.50	
Perylene-d12 (ISTD)	154461	18.124	142416	18.375	108	50 - 200	-0.2510	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	119262	20.514	93265	20.765	128	50 - 200	-0.2510	+/-0.50	
Calibration Blank (0B03036-CCB1)			Lab File ID: N02032003.D			Analyzed: 02/03/20 09:26			
Naphthalene-d8 (ISTD)	183372	7.749	184696	7.749	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	103703	9.503	111659	9.503	93	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	181325	11.013	202803	11.013	89	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	134709	14.668	165369	14.668	81	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	127677	18.124	154461	18.124	83	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	100915	20.514	119262	20.514	85	50 - 200	0.0000	+/-0.50	
PDI-057SC-A-06-07-191023 (A0A1011-01)			Lab File ID: N02032005.D			Analyzed: 02/03/20 10:36			
Naphthalene-d8 (ISTD)	139757	7.755	184696	7.749	76	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	96909	9.504	111659	9.503	87	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	176444	11.013	202803	11.013	87	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	153684	14.668	165369	14.668	93	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	150047	18.124	154461	18.124	97	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	120298	20.508	119262	20.514	101	50 - 200	-0.0060	+/-0.50	
PDI-057SC-A-07-08-191023 (A0A1011-02)			Lab File ID: N02032006.D			Analyzed: 02/03/20 11:08			
Naphthalene-d8 (ISTD)	138317	7.755	184696	7.749	75	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	93181	9.503	111659	9.503	83	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	172438	11.013	202803	11.013	85	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	156039	14.668	165369	14.668	94	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	155652	18.124	154461	18.124	101	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	125731	20.508	119262	20.514	105	50 - 200	-0.0060	+/-0.50	
PDI-057SC-A-08-09-191023 (A0A1011-03)			Lab File ID: N02032007.D			Analyzed: 02/03/20 11:40			
Naphthalene-d8 (ISTD)	142637	7.755	184696	7.749	77	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	93741	9.503	111659	9.503	84	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	164686	11.013	202803	11.013	81	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	134661	14.668	165369	14.668	81	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	136750	18.124	154461	18.124	89	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	104838	20.508	119262	20.514	88	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B04047	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0B04047-CCV1)			Lab File ID: N02042011.D			Analyzed: 02/04/20 14:10			
Naphthalene-d8 (ISTD)	181183	7.755	148351	7.883	122	50 - 200	-0.1280	+/-0.50	
Acenaphthene-d10 (ISTD)	112110	9.504	117951	9.638	95	50 - 200	-0.1340	+/-0.50	
Phenanthrene-d10 (ISTD)	204970	11.013	219661	11.147	93	50 - 200	-0.1340	+/-0.50	
Chrysene-d12 (ISTD)	159617	14.668	169841	14.907	94	50 - 200	-0.2390	+/-0.50	
Perylene-d12 (ISTD)	144093	18.124	142416	18.375	101	50 - 200	-0.2510	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	121986	20.508	93265	20.765	131	50 - 200	-0.2570	+/-0.50	
Calibration Blank (0B04047-CCB1)			Lab File ID: N02042012.D			Analyzed: 02/04/20 14:42			
Naphthalene-d8 (ISTD)	168371	7.755	181183	7.755	93	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	109873	9.503	112110	9.504	98	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	202009	11.013	204970	11.013	99	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	182643	14.668	159617	14.668	114	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	174072	18.124	144093	18.124	121	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	149451	20.514	121986	20.508	123	50 - 200	0.0060	+/-0.50	
Blank (0020080-BLK1)			Lab File ID: N02042013.D			Analyzed: 02/04/20 15:14			
Naphthalene-d8 (ISTD)	182803	7.755	181183	7.755	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	113469	9.504	112110	9.504	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	212849	11.013	204970	11.013	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	189224	14.668	159617	14.668	119	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	182897	18.124	144093	18.124	127	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	156891	20.514	121986	20.508	129	50 - 200	0.0060	+/-0.50	
LCS (0020080-BS1)			Lab File ID: N02042014.D			Analyzed: 02/04/20 15:46			
Naphthalene-d8 (ISTD)	181782	7.749	181183	7.755	100	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	116488	9.504	112110	9.504	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	206699	11.013	204970	11.013	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	164464	14.662	159617	14.668	103	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	153351	18.124	144093	18.124	106	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	125372	20.508	121986	20.508	103	50 - 200	0.0000	+/-0.50	
Duplicate (0020080-DUP1)			Lab File ID: N02042016.D			Analyzed: 02/04/20 16:49			
Naphthalene-d8 (ISTD)	183426	7.755	181183	7.755	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	118921	9.509	112110	9.504	106	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	224750	11.013	204970	11.013	110	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	212267	14.668	159617	14.668	133	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	211702	18.13	144093	18.124	147	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	174446	20.52	121986	20.508	143	50 - 200	0.0120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence: 0B04047
Instrument: SV-GCMS14
Matrix: Sediment
Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PDI-062SC-A-08-09-191023 (A0A1011-04)			Lab File ID: N02042017.D			Analyzed: 02/04/20 17:21			
Naphthalene-d8 (ISTD)	165768	7.755	181183	7.755	91	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	103726	9.504	112110	9.504	93	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	188109	11.013	204970	11.013	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	155413	14.668	159617	14.668	97	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	151173	18.124	144093	18.124	105	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	121031	20.508	121986	20.508	99	50 - 200	0.0000	+/-0.50	
PDI-062SC-A-09-10-191023 (A0A1011-05)			Lab File ID: N02042018.D			Analyzed: 02/04/20 17:53			
Naphthalene-d8 (ISTD)	166778	7.755	181183	7.755	92	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	106652	9.509	112110	9.504	95	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	191677	11.013	204970	11.013	94	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	157944	14.668	159617	14.668	99	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	155226	18.13	144093	18.124	108	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	120022	20.514	121986	20.508	98	50 - 200	0.0060	+/-0.50	
Matrix Spike (0020080-MS1)			Lab File ID: N02042019.D			Analyzed: 02/04/20 18:24			
Naphthalene-d8 (ISTD)	169744	7.755	181183	7.755	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	106492	9.504	112110	9.504	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	189597	11.013	204970	11.013	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	158378	14.668	159617	14.668	99	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	156254	18.124	144093	18.124	108	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	132118	20.514	121986	20.508	108	50 - 200	0.0060	+/-0.50	
Matrix Spike Dup (0020080-MSD1)			Lab File ID: N02042020.D			Analyzed: 02/04/20 18:56			
Naphthalene-d8 (ISTD)	166605	7.755	181183	7.755	92	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	105619	9.509	112110	9.504	94	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	186699	11.013	204970	11.013	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	158687	14.668	159617	14.668	99	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	157969	18.124	144093	18.124	110	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	134654	20.514	121986	20.508	110	50 - 200	0.0060	+/-0.50	
PDI-062SC-A-10-11-191023 (A0A1011-06)			Lab File ID: N02042021.D			Analyzed: 02/04/20 19:28			
Naphthalene-d8 (ISTD)	171523	7.755	181183	7.755	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	111454	9.509	112110	9.504	99	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10 (ISTD)	195002	11.013	204970	11.013	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	146691	14.668	159617	14.668	92	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	134987	18.13	144093	18.124	94	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	99404	20.514	121986	20.508	81	50 - 200	0.0060	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-057SC-A-06-07-191023	10/23/19 13:01	10/24/19 10:10	01/31/20 07:07	99.75	14.00	02/03/20 10:36	3.15	40.00	*
PDI-057SC-A-07-08-191023	10/23/19 13:01	10/24/19 10:10	01/31/20 07:07	99.75	14.00	02/03/20 11:08	3.17	40.00	*
PDI-057SC-A-08-09-191023	10/23/19 13:01	10/24/19 10:10	01/31/20 07:07	99.75	14.00	02/03/20 11:40	3.19	40.00	*
PDI-062SC-A-08-09-191023	10/23/19 09:33	10/24/19 10:10	02/04/20 10:35	104.04	14.00	02/04/20 17:21	0.28	40.00	*
PDI-062SC-A-09-10-191023	10/23/19 09:33	10/24/19 10:10	02/04/20 10:35	104.04	14.00	02/04/20 17:53	0.30	40.00	*
PDI-062SC-A-10-11-191023	10/23/19 09:33	10/24/19 10:10	02/04/20 10:35	104.04	14.00	02/04/20 19:28	0.37	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 5310 B MOD

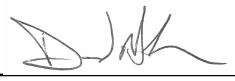
ANALYSES DATA PACKAGE COVER PAGE

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-057SC-A-06-07-191023	A0A1011-01	Sediment
PDI-057SC-A-07-08-191023	A0A1011-02	Sediment
PDI-057SC-A-08-09-191023	A0A1011-03	Sediment
PDI-062SC-A-08-09-191023	A0A1011-04	Sediment
PDI-062SC-A-09-10-191023	A0A1011-05	Sediment
PDI-062SC-A-10-11-191023	A0A1011-06	Sediment

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

Signature: 
Name: David G. Jack

Forms Created: 3/7/2020 11:55AM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

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

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

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-057SC-A-06-07-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-01
File ID: 0B10055.txt-054
Sampled: 10/23/19 13:01
Prepared: 02/08/20 09:40
Analyzed: 02/11/20 04:59
Solids: 56.36
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 0020270
Sequence: 0B10055
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.7	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-057SC-A-07-08-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-02
File ID: 0B10055.txt-056
Sampled: 10/23/19 13:01
Prepared: 02/08/20 09:40
Analyzed: 02/11/20 05:20
Solids: 56.65
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 0020270
Sequence: 0B10055
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.7	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-057SC-A-08-09-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-03
File ID: 0B10055.txt-057
Sampled: 10/23/19 13:01
Prepared: 02/08/20 09:40
Analyzed: 02/11/20 05:31
Solids: 60.21
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 0020270
Sequence: 0B10055
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.1	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-062SC-A-08-09-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-04
File ID: 0B10055.txt-034
Sampled: 10/23/19 09:33
Prepared: 02/05/20 09:26
Analyzed: 02/11/20 01:22
Solids: 62.67
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 0020128
Sequence: 0B10055
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	4.0	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-062SC-A-09-10-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-05
File ID: 0B10055.txt-036
Sampled: 10/23/19 09:33
Prepared: 02/05/20 09:26
Analyzed: 02/11/20 01:43
Solids: 80.02
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 0020128
Sequence: 0B10055
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.59	1		SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-062SC-A-10-11-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-06
File ID: 0B10055.txt-037
Sampled: 10/23/19 09:33
Prepared: 02/05/20 09:26
Analyzed: 02/11/20 01:54
Solids: 80.81
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 0020128
Sequence: 0B10055
Calibration: A0A0805
Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.076	1		SM 5310 B MOD

PREPARATION BATCH SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020128 Batch Matrix: Sediment Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020128-BLK1	0B10055.txt-029	02/05/20 09:26	
LCS	0020128-BS1	0B10055.txt-030	02/05/20 09:26	
PDI-062SC-A-08-09-191023 (Dup)	0020128-DUP3	0B10055.txt-035	02/05/20 09:26	
PDI-062SC-A-08-09-191023	A0A1011-04	0B10055.txt-034	02/05/20 09:26	
PDI-062SC-A-09-10-191023	A0A1011-05	0B10055.txt-036	02/05/20 09:26	
PDI-062SC-A-10-11-191023	A0A1011-06	0B10055.txt-037	02/05/20 09:26	

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

PREPARATION BATCH SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020270 Batch Matrix: Sediment Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020270-BLK1	0B10055.txt-046	02/08/20 09:40	
LCS	0020270-BS1	0B10055.txt-047	02/08/20 09:40	
PDI-057SC-A-06-07-191023 (Dup)	0020270-DUP3	0B10055.txt-055	02/08/20 09:40	
PDI-057SC-A-06-07-191023	A0A1011-01	0B10055.txt-054	02/08/20 09:40	
PDI-057SC-A-07-08-191023	A0A1011-02	0B10055.txt-056	02/08/20 09:40	
PDI-057SC-A-08-09-191023	A0A1011-03	0B10055.txt-057	02/08/20 09:40	

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
SM 5310 B MOD

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C	
Matrix:	Sediment	Laboratory ID:	0020128-BLK1	File ID:	0B10055.txt-029
Prepared:	02/05/20 09:26	Preparation:	PSEP-5310B TOC	Initial/Final:	5 N/A / 5 N/A
Analyzed:	02/11/20 00:28	Instrument:	TOC6		
Batch:	0020128	Sequence:	0B10055	Calibration:	A0A0805

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

METHOD BLANK DATA SHEET
SM 5310 B MOD

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	0020270-BLK1	File ID:	0B10055.txt-046
Prepared:	02/08/20 09:40	Preparation:	PSEP-5310B TOC	Initial/Final:	5 N/A / 5 N/A
Analyzed:	02/11/20 03:32	Instrument:	TOC6		
Batch:	0020270	Sequence:	0B10055	Calibration:	A0A0805

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

LCS / LCS DUPLICATE RECOVERY

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020128	Laboratory ID:	0020128-BS1
Preparation:	PSEP-5310B TOC	Initial/Final:	5 N/A / 5 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Organic Carbon	10000	9900	99	90 - 110

* = Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	0020270	Laboratory ID:	0020270-BS1
Preparation:	PSEP-5310B TOC	Initial/Final:	5 N/A / 5 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Organic Carbon	10000	9900	99	90 - 110

* = Values outside of QC limits

PDI-062SC-A-08-09-191023

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020128
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-062SC-A-08-09-191023

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020128-DUP3
Lab Source ID: A0A1011-04
Initial/Final: 5 N/A / 5 N/A
% Solids: 62.67

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	4.0		4.0		0.009		SM 5310 B MOD

* Values outside of QC limits

PDI-057SC-A-06-07-191023

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020270
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-057SC-A-06-07-191023

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 0020270-DUP3
Lab Source ID: A0A1011-01
Initial/Final: 5 N/A / 5 N/A
% Solids: 56.36

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	2.7		3.1		15		SM 5310 B MOD

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0A08052	Instrument:	TOC6
Matrix:	Sediment	Calibration:	A0A0805

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

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

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0B10055	Instrument:	TOC6
Matrix:	Sediment	Calibration:	A0A0805

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B10055-CCV1	0B10055.txt-003	02/10/20 19:47
Calibration Blank	0B10055-CCB1	0B10055.txt-004	02/10/20 19:58
Calibration Check	0B10055-CCV2	0B10055.txt-015	02/10/20 21:57
Calibration Blank	0B10055-CCB2	0B10055.txt-016	02/10/20 22:07
Calibration Check	0B10055-CCV3	0B10055.txt-027	02/11/20 00:06
Calibration Blank	0B10055-CCB3	0B10055.txt-028	02/11/20 00:17
Blank	0020128-BLK1	0B10055.txt-029	02/11/20 00:28
LCS	0020128-BS1	0B10055.txt-030	02/11/20 00:39
PDI-062SC-A-08-09-191023	A0A1011-04	0B10055.txt-034	02/11/20 01:22
PDI-062SC-A-08-09-191023 (Dup)	0020128-DUP3	0B10055.txt-035	02/11/20 01:33
PDI-062SC-A-09-10-191023	A0A1011-05	0B10055.txt-036	02/11/20 01:43
PDI-062SC-A-10-11-191023	A0A1011-06	0B10055.txt-037	02/11/20 01:54
Calibration Check	0B10055-CCV4	0B10055.txt-038	02/11/20 02:05
Calibration Blank	0B10055-CCB4	0B10055.txt-039	02/11/20 02:16
Blank	0020270-BLK1	0B10055.txt-046	02/11/20 03:32
LCS	0020270-BS1	0B10055.txt-047	02/11/20 03:43
Calibration Check	0B10055-CCV5	0B10055.txt-049	02/11/20 04:04
Calibration Blank	0B10055-CCB5	0B10055.txt-050	02/11/20 04:15
PDI-057SC-A-06-07-191023	A0A1011-01	0B10055.txt-054	02/11/20 04:59
PDI-057SC-A-06-07-191023 (Dup)	0020270-DUP3	0B10055.txt-055	02/11/20 05:10
PDI-057SC-A-07-08-191023	A0A1011-02	0B10055.txt-056	02/11/20 05:20
PDI-057SC-A-08-09-191023	A0A1011-03	0B10055.txt-057	02/11/20 05:31
Calibration Check	0B10055-CCV6	0B10055.txt-058	02/11/20 05:42
Calibration Blank	0B10055-CCB6	0B10055.txt-059	02/11/20 05:53

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

INITIAL CALIBRATION DATA (Summary)

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing
Calibration: A0A0805
Date: 01/08/20 16:30
Instrument: TOC6

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

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

INITIAL CALIBRATION DATA

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0A0805	Instrument:	TOC6
		Calibration Date:	01/08/20 16:30

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

INITIAL CALIBRATION DATA (Continued)

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A0A0805	Instrument:	TOC6
Matrix:		Calibration Date:	01/08/20 16:30

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

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Instrument ID: TOC6
Calibration: A0A0805
Control Limt: +/- 10.00%
Sequence: 0A08052

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

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Instrument ID: TOC6
Calibration: A0A0805
Control Limt: +/- 10.00%
Sequence: 0B10055

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0B10055-CCV1	Total Organic Carbon	10000	9700	97	mg/kg	SM 5310 B MOD
0B10055-CCV2	Total Organic Carbon	10000	9900	99	mg/kg	SM 5310 B MOD
0B10055-CCV3	Total Organic Carbon	10000	9600	96	mg/kg	SM 5310 B MOD
0B10055-CCV4	Total Organic Carbon	10000	9800	98	mg/kg	SM 5310 B MOD
0B10055-CCV5	Total Organic Carbon	10000	9800	98	mg/kg	SM 5310 B MOD
0B10055-CCV6	Total Organic Carbon	10000	9900	99	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: TOC6
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 0A08052
Calibration: A0A0805

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

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

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: TOC6
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 0B10055
Calibration: A0A0805

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0B10055-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B10055-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B10055-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B10055-CCB4	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B10055-CCB5	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B10055-CCB6	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD

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

HOLDING TIME SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-057SC-A-06-07-191023	10/23/19 13:01	10/24/19 10:10	02/08/20 09:40	107.86	28.00	02/11/20 04:59	110.67	28.00	*
PDI-057SC-A-07-08-191023	10/23/19 13:01	10/24/19 10:10	02/08/20 09:40	107.86	28.00	02/11/20 05:20	110.68	28.00	*
PDI-057SC-A-08-09-191023	10/23/19 13:01	10/24/19 10:10	02/08/20 09:40	107.86	28.00	02/11/20 05:31	110.69	28.00	*
PDI-062SC-A-08-09-191023	10/23/19 09:33	10/24/19 10:10	02/05/20 09:26	105.00	28.00	02/11/20 01:22	110.66	28.00	*
PDI-062SC-A-09-10-191023	10/23/19 09:33	10/24/19 10:10	02/05/20 09:26	105.00	28.00	02/11/20 01:43	110.67	28.00	*
PDI-062SC-A-10-11-191023	10/23/19 09:33	10/24/19 10:10	02/05/20 09:26	105.00	28.00	02/11/20 01:54	110.68	28.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 2540 G

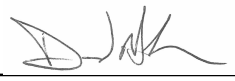
ANALYSES DATA PACKAGE COVER PAGE

SM 2540 G

Laboratory: Apex Laboratories
SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-057SC-A-06-07-191023	A0A1011-01	Sediment
PDI-057SC-A-07-08-191023	A0A1011-02	Sediment
PDI-057SC-A-08-09-191023	A0A1011-03	Sediment
PDI-062SC-A-08-09-191023	A0A1011-04	Sediment
PDI-062SC-A-09-10-191023	A0A1011-05	Sediment
PDI-062SC-A-10-11-191023	A0A1011-06	Sediment

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

Signature: 
Name: David G. Jack

Forms Created: 3/7/2020 11:55AM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Solids	1.00	1.00	% by Weight

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

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-057SC-A-06-07-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-01
Sampled: 10/23/19 13:01
Prepared: 02/03/20 16:32
Analyzed: 02/12/20 10:31
Solids: 56.36
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020057
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-057SC-A-07-08-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-02
Sampled: 10/23/19 13:01
Prepared: 02/03/20 16:32
Analyzed: 02/12/20 10:31
Solids: 56.65
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020057
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.7	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-057SC-A-08-09-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-03
Sampled: 10/23/19 13:01
Prepared: 02/03/20 16:32
Analyzed: 02/12/20 10:31
Solids: 60.21
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020057
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	60.2	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-062SC-A-08-09-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-04
Sampled: 10/23/19 09:33
Prepared: 02/03/20 16:32
Analyzed: 02/12/20 10:31
Solids: 62.67
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020057
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	62.7	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-062SC-A-09-10-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-05
Sampled: 10/23/19 09:33
Prepared: 02/03/20 16:32
Analyzed: 02/12/20 10:31
Solids: 80.02
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020057
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	80.0	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-062SC-A-10-11-191023

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A0A1011-06
Sampled: 10/23/19 09:33
Prepared: 02/03/20 16:32
Analyzed: 02/12/20 10:31
Solids: 80.81
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0020057
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	80.8	1		SM 2540 G

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0020057 Batch Matrix: Sediment Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-057SC-A-06-07-191023 (Dup)	0020057-DUP1		02/03/20 16:32	
PDI-057SC-A-06-07-191023	A0A1011-01		02/03/20 16:32	
PDI-057SC-A-07-08-191023	A0A1011-02		02/03/20 16:32	
PDI-057SC-A-08-09-191023	A0A1011-03		02/03/20 16:32	
PDI-062SC-A-08-09-191023	A0A1011-04		02/03/20 16:32	
PDI-062SC-A-09-10-191023	A0A1011-05		02/03/20 16:32	
PDI-062SC-A-10-11-191023	A0A1011-06		02/03/20 16:32	

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

PDI-057SC-A-06-07-191023

DUPLICATES

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0020057
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: PDI-057SC-A-06-07-191023

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 0020057-DUP1
Lab Source ID: A0A1011-01
Initial/Final: 1 N/A / 1 N/A
% Solids: 56.36

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	56.4		56.6		0.5		SM 2540 G

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-057SC-A-06-07-191023	10/23/19 13:01	10/24/19 10:10	02/03/20 16:32	103.15	180.00	02/12/20 10:31	8.75		
PDI-057SC-A-07-08-191023	10/23/19 13:01	10/24/19 10:10	02/03/20 16:32	103.15	180.00	02/12/20 10:31	8.75		
PDI-057SC-A-08-09-191023	10/23/19 13:01	10/24/19 10:10	02/03/20 16:32	103.15	180.00	02/12/20 10:31	8.75		
PDI-062SC-A-08-09-191023	10/23/19 09:33	10/24/19 10:10	02/03/20 16:32	103.29	180.00	02/12/20 10:31	8.75		
PDI-062SC-A-09-10-191023	10/23/19 09:33	10/24/19 10:10	02/03/20 16:32	103.29	180.00	02/12/20 10:31	8.75		
PDI-062SC-A-10-11-191023	10/23/19 09:33	10/24/19 10:10	02/03/20 16:32	103.29	180.00	02/12/20 10:31	8.75		

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Raw Data

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 0020004
Sequence 0B07014 (A0A1011-01,02,03)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020004 (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	pH Other	pH >11
	0020004-BLK1		QC	02/03/20 07:08	31	2				100					
	0020004-BS1		QC	02/03/20 07:08	30	2	A20A262		100	100					
	A0A0991-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.25	2				100	PDI-035SC-A-01-02-191010	+1262,1268			
	A0A0991-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.12	2				100	PDI-035SC-A-02-03-191010	+1262,1268			
	0020004-DUP1		QC	02/03/20 07:08	30.17	2		A0A0991-02		100					
	A0A0991-03	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.51	2				100	PDI-041SC-A-03-04-191010	+1262,1268			
	A0A0991-04	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.37	2				100	PDI-045SC-A-04-05-191010	+1262,1268			
	A0A0991-05	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.27	2				100	PDI-045SC-A-05-06-191010	+1262,1268			
	A0A0991-06	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.66	2				100	PDI-067SC-A-06-07-191010	+1262,1268			
	A0A0994-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.27	2				100	PDI-066SC-A-07-08-191011	+1262,1268			
	A0A0994-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.08	2				100	PDI-066SC-A-08-09-191011	+1262,1268			
	A0A0996-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.33	2				100	PDI-015SC-A-09-10-191012	+1262,1268			
	A0A0996-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.34	2				100	PDI-037SC-A-04-05-191012	+1262,1268			
	A0A0996-03	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.26	2				100	PDI-037SC-A-05-06-191012	+1262,1268			
	A0A0996-04	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.15	2				100	PDI-037SC-A-06-07-191012	+1262,1268			
	A0A0996-05	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.21	2				100	PDI-074SC-A-06-07-191012	+1262,1268			
	A0A0996-06	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.01	2				100	PDI-074SC-A-07-08-191012	+1262,1268			
	A0A1002-01	B	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.12	2				100	PDI-076SC-A-08-09-191013	+1262,1268			
	A0A1002-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.64	2				100	PDI-076SC-A-09-10-191013	+1262,1268			

Prepared By: _____ Date _____

Reviewed By: _____ Date 2/11/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020004 (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	pH Other	pH >11
	A0A1010-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.3	2				100	PDI-026SC-A-06-07-191014	+1262,1268			
	A0A1011-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.18	2				100	PDI-057SC-A-06-07-191023	+1262,1268			
	A0A1011-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.09	2				100	PDI-057SC-A-07-08-191023	+1262,1268			
	A0A1011-03	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	30.26	2				100	PDI-057SC-A-08-09-191023	+1262,1268			
	0020004-MS1		QC	02/03/20 07:08	30.24	2	A20A262	A0A1011-03	100	100					
	0020004-MSD1		QC	02/03/20 07:08	30.22	2	A20A262	A0A1011-03	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/22	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A262	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020004 (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	pH Other	pH >11
1/2	0020004-BLK1		QC	02/03/20 07:08	~~30~~ 31	2				100					
3/4	0020004-BS1		QC	02/03/20 07:08	30	2	A20A262		100	100					
5/6	A0A0991-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.25	2				100	PDI-035SC-A-01-02-191010	+1262,1268 Sand, odor #			
7/8	A0A0991-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.12	2				100	PDI-035SC-A-02-03-191010	+1262,1268 Sand #			
9/10	0020004-DUP1		QC	02/03/20 07:08	~~30~~ 30.17	2		A0A0991-02		100		#			
11/12	A0A0991-03	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.51	2				100	PDI-041SC-A-03-04-191010	+1262,1268 Sand P			
13/14	A0A0991-04	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.37	2				100	PDI-045SC-A-04-05-191010	+1262,1268 Sand			
15/16	A0A0991-05	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.27	2				100	PDI-045SC-A-05-06-191010	+1262,1268 Sand			
17/18	A0A0991-06	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.606	2				100	PDI-067SC-A-06-07-191010	+1262,1268 Sediment #			
19/20	A0A0994-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.27	2				100	PDI-066SC-A-07-08-191011	+1262,1268 mud #			
21/22	A0A0994-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.08	2				100	PDI-066SC-A-08-09-191011	+1262,1268 mud #			
23/24	A0A0996-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.33	2				100	PDI-015SC-A-09-10-191012	+1262,1268 Mud #			
25/26	A0A0996-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.34	2				100	PDI-037SC-A-04-05-191012	+1262,1268 Sand, odor			
27/28	A0A0996-03	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.26	2				100	PDI-037SC-A-05-06-191012	+1262,1268 Sand, odor # µ			
29/30	A0A0996-04	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.15	2				100	PDI-037SC-A-06-07-191012	+1262,1268 Sand, odor # µ			
31/32	A0A0996-05	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.21	2				100	PDI-074SC-A-06-07-191012	+1262,1268 mud # µ			
33/34	A0A0996-06	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.01	2				100	PDI-074SC-A-07-08-191012	+1262,1268 Mud # µ			WTD 2/3/20
35/36	A0A1002-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.12	2				100	PDI-076SC-A-08-09-191013	+1262,1268 mud # µ			
37/38	A0A1002-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.64	2				100	PDI-076SC-A-09-10-191013	+1262,1268 Mud # µ			

Prepared By: JAG — Date: 2/3/20 (2-3-20)

Reviewed By: SCG — Date: 02/03/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020004 (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	pH Other	pH >11
39/40	A0A1010-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.30	2				100	PDI-026SC-A-06-07-191014	+1262,1268 mud			
41/42	A0A1011-01	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.18	2				100	PDI-057SC-A-06-07-191023	+1262,1268 mud # , μ			
43/44	A0A1011-02	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.09	2				100	PDI-057SC-A-07-08-191023	+1262,1268 mud # μ			
45/46	A0A1011-03	A	8082 PCBs - Low Level (30g/2mL)	02/03/20 07:08	~~30~~ 30.26	2				100	PDI-057SC-A-08-09-191023	+1262,1268 mud , * # μ			
47/48	0020004-MS1		QC	02/03/20 07:08	~~30~~ 30.24	2	A20A262	A0A1011-03	100	100		mud # μ			
49/50	0020004-MSD1		QC	02/03/20 07:08	~~30~~ 30.22	2	A20A262	A0A1011-03	100	100		mud # μ			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/22	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A262	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved. yes
Initial: ATT

Witness: JAG 2/3/20

#=Staining on turbovap during solvent exchange. ATT 2/3/20

P= partial dryout in 2nd vessel. ATT 2/3/20

μ= precipitate formed during solvent exchange. ATT 2/3/20

*= A drop or two of extract splashed out of vessel #1 during pour-out. ATT 2/3/20

ATT 2-3-20
Prepared By: Date

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0B07014**	Instrument:	**DUALECD2R**
Date:	**02/07/20 07:19**	Calibration:	**A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B07014-CCV1	Sediment	QC	QC				A20A394
2	0B07014-CCB1	Sediment	QC	QC				A20A395
3	A0A1002-02	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
4	0B07014-IBL1	Sediment	QC	QC				
5	A0A1010-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
6	0B07014-IBL2	Sediment	QC	QC				
7	A0A1011-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
8	0B07014-IBL3	Sediment	QC	QC				
9	A0A1011-02	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
10	0B07014-IBL4	Sediment	QC	QC				
11	A0A1011-03	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
12	0B07014-IBL5	Sediment	QC	QC				
13	0020004-MS1	Sediment	QC	QC		0020004		
14	0B07014-IBL6	Sediment	QC	QC				
15	0020004-MSD1	Sediment	QC	QC		0020004		
16	0B07014-IBL7	Sediment	QC	QC				
17	0B07014-CCV2	Sediment	QC	QC				A20A394
18	0B07014-CCB2	Sediment	QC	QC				A20A395

Comments:

Data Entered By: 2/10/20

Data Reviewed By: 2/11/20

TOTAL AROCLOR AVERAGE RESULTS

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

0B07014-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	502.91
1016 (2)	487.02
1016 (3)	451.32
1016 (4)	483.09
1016 (5)	481.72
1016 (6)	469.54
Average:	**479.27**

Aroclor 1260

Peak	Initial Res
1260 (1)	494.77
1260 (2)	508.63
1260 (3)	494.07
1260 (4)	532.50
1260 (5)	531.16
1260 (6)	517.40
Average:	**513.09**

0020004-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	746.60
1016 (2)	829.13
1016 (3)	674.48
1016 (4)	805.49
1016 (5)	788.29
1016 (6)	710.04
Average:	**759.01**

Aroclor 1260

Peak	Initial Res
1260 (1)	856.90
1260 (2)	875.86
1260 (3)	876.58
1260 (4)	960.02
1260 (5)	881.78
1260 (6)	894.30
Average:	**890.91**

TOTAL AROCLOR AVERAGE RESULTS

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

0020004-MSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	749.97
1016 (2)	814.39
1016 (3)	629.99
1016 (4)	798.88
1016 (5)	805.42
1016 (6)	715.30
Average:	**752.33**

Aroclor 1260

Peak	Initial Res
1260 (1)	880.06
1260 (2)	971.78
1260 (3)	837.06
1260 (4)	987.88
1260 (5)	927.99
1260 (6)	967.60
Average:	**928.73**

0B07014-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	513.92
1016 (2)	510.40
1016 (3)	482.47
1016 (4)	517.44
1016 (5)	539.58
1016 (6)	525.29
Average:	**514.85**

Aroclor 1260

Peak	Initial Res
1260 (1)	545.94
1260 (2)	550.13
1260 (3)	549.50
1260 (4)	579.95
1260 (5)	582.07
1260 (6)	592.93
Average:	**566.75**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B07014-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:34:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.625	55827105	247.432	ng/ml	
62)	S DCBP (S)	10.539	29476248	265.018	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.296	3108970	502.908	ng/ml	
3)	Aroclor 1016 (2)	6.787	5572217	487.024	ng/ml	
4)	Aroclor 1016 (3)	6.913	2417503	451.321	ng/ml	✓
5)	Aroclor 1016 (4)	6.999	2386824	483.089	ng/ml	
6)	Aroclor 1016 (5)	7.044	2671370	481.717	ng/ml	
7)	Aroclor 1016 (6)	7.169	2682286	469.541	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.800	221200	127.308	ng/ml	
10)	Aroclor 1221 (2)	5.873	410165	238.888	ng/ml	
11)	Aroclor 1221 (3)	5.961	1825758	319.915	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.961	1825758	399.510	ng/ml	
14)	Aroclor 1232 (2)	6.296	3108970	1194.502	ng/ml	
15)	Aroclor 1232 (3)	6.787	5572217	1139.056	ng/ml	
16)	Aroclor 1232 (4)	6.999	2386824	1410.788	ng/ml	
17)	Aroclor 1232 (5)	7.044	2671370	1283.791	ng/ml	
18)	Aroclor 1232 (6)	7.169	2682286	1236.262	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.296	3108970	683.842	ng/ml	
21)	Aroclor 1242 (2)	6.787	5572217	631.595	ng/ml	
22)	Aroclor 1242 (3)	6.913	2417503	631.174	ng/ml	
23)	Aroclor 1242 (4)	6.999	2386824	722.494	ng/ml	
24)	Aroclor 1242 (5)	7.044	2671370	668.858	ng/ml	
25)	Aroclor 1242 (6)	7.169	2682286	643.109	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.759	4428903	857.977	ng/ml	
28)	Aroclor 1248 (2)	6.999	2386824	375.325	ng/ml	
29)	Aroclor 1248 (3)	7.044	2671370	450.046	ng/ml	
30)	Aroclor 1248 (4)	7.169	2682286	367.663	ng/ml	
31)	Aroclor 1248 (5)	7.535	619749	69.621	ng/ml	
32)	Aroclor 1248 (6)	7.693	2204105	270.734	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.511	1827808	215.700	ng/ml	
35)	Aroclor 1254 (2)	7.693	2204105	158.457	ng/ml	
36)	Aroclor 1254 (3)	8.003	1285065	84.687	ng/ml	
37)	Aroclor 1254 (4)	8.242	895285	82.012	ng/ml	
38)	Aroclor 1254 (5)	8.577	6551891	582.460	ng/ml	
39)	Aroclor 1254 (6)	8.823	4735910	1342.689	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	8.138	5208830	494.766	ng/ml	
42)	Aroclor 1260 (2)	8.345	6491393	508.632	ng/ml	
43)	Aroclor 1260 (3)	8.577	6551891	494.066	ng/ml	
44)	Aroclor 1260 (4)	9.060	11263755	532.503	ng/ml	✓
45)	Aroclor 1260 (5)	9.318	6498650	531.164	ng/ml	
46)	Aroclor 1260 (6)	9.881	2524900	517.402	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B07014-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:34:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

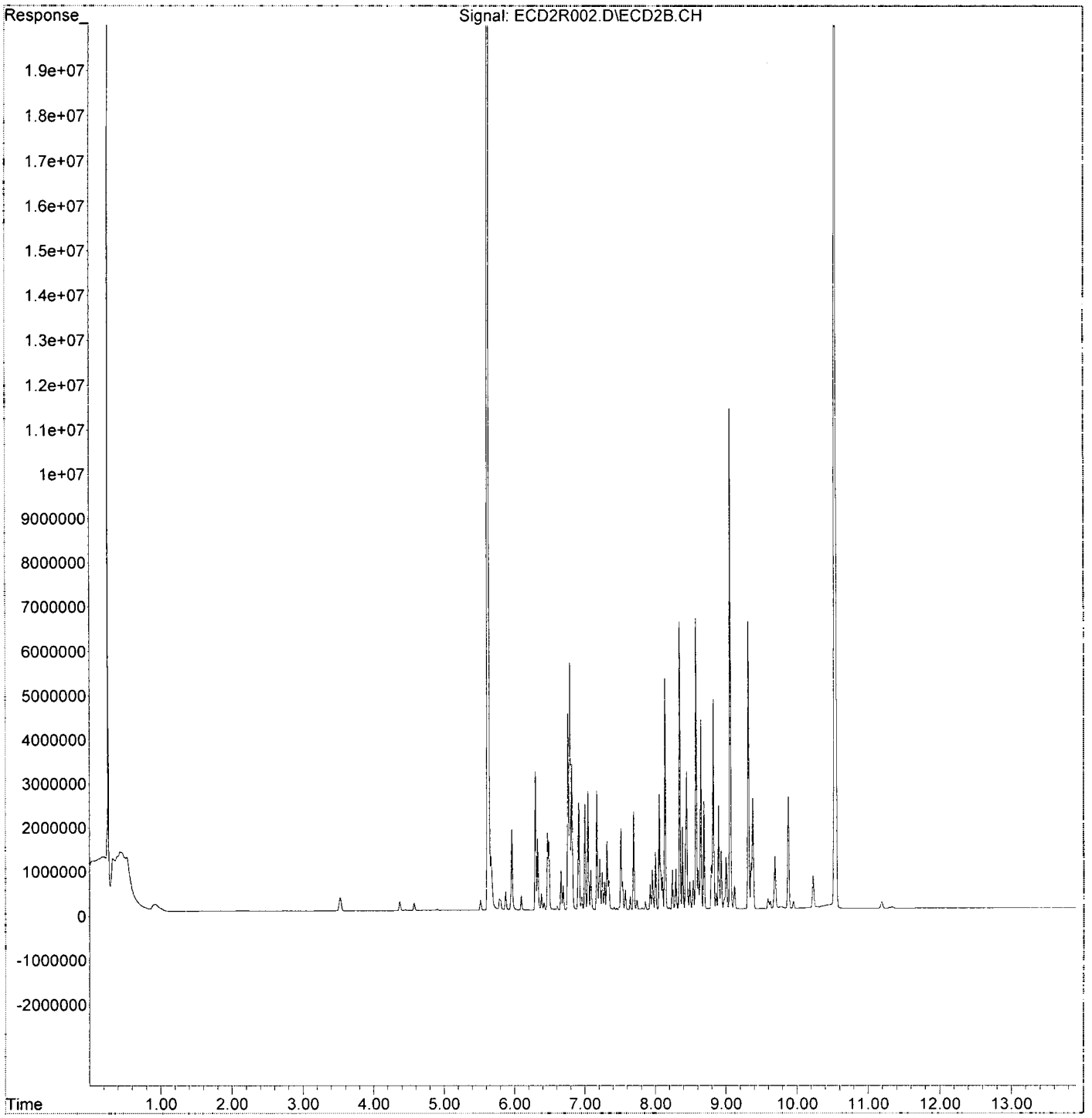
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	6491393	614.035	ng/ml
49)	Aroclor 1262 (2)	8.645	4280305	280.170	ng/ml
50)	Aroclor 1262 (3)	8.823	4735910	369.872	ng/ml
51)	Aroclor 1262 (4)	9.060	11263755	409.225	ng/ml
52)	Aroclor 1262 (5)	9.318	6498650	395.787	ng/ml
53)	Aroclor 1262 (6)	9.881	2524900	350.655	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	373862	59.989	ng/ml
56)	Aroclor 1268 (2)	9.318	6498650	234.046	ng/ml
57)	Aroclor 1268 (3)	9.381	2491767	110.665	ng/ml
58)	Aroclor 1268 (4)	9.595	229723	11.932	ng/ml
59)	Aroclor 1268 (5)	9.881	2524900	322.746	ng/ml
60)	Aroclor 1268 (6)	10.229	732729	14.477	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 7:49
Operator : MJB / KAK
Sample : 0B07014-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:34:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B07014-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:34:25 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20 dean

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	TCMX (S)	5.626	19847924	87.968	ng/ml
62)	S	DCBP (S)	10.539	11278604	101.405	ng/ml
Target Compounds						
2)		Aroclor 1016 (1)	6.293	1311	0.212	ng/ml
3)		Aroclor 1016 (2)	6.795	2037	0.178	ng/ml
4)		Aroclor 1016 (3)	6.916	1651	0.308	ng/ml
5)		Aroclor 1016 (4)	7.008	1597	0.323	ng/ml
6)		Aroclor 1016 (5)	7.047	1643	0.296	ng/ml
7)		Aroclor 1016 (6)	7.170	1248	0.218	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.801	13772	7.926	ng/ml
10)		Aroclor 1221 (2)	5.873	8014	4.667	ng/ml
11)		Aroclor 1221 (3)	5.946	32759	5.740	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.946	32759	7.168	ng/ml
14)		Aroclor 1232 (2)	6.293	1311	0.504	ng/ml
15)		Aroclor 1232 (3)	6.795	2037	0.416	ng/ml
16)		Aroclor 1232 (4)	7.008	1597	0.944	ng/ml
17)		Aroclor 1232 (5)	7.047	1643	0.790	ng/ml
18)		Aroclor 1232 (6)	7.170	1248	0.575	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.293	1311	0.288	ng/ml
21)		Aroclor 1242 (2)	6.795	2037	0.231	ng/ml
22)		Aroclor 1242 (3)	6.916	1651	0.431	ng/ml
23)		Aroclor 1242 (4)	7.008	1597	0.483	ng/ml
24)		Aroclor 1242 (5)	7.047	1643	0.411	ng/ml
25)		Aroclor 1242 (6)	7.170	1248	0.299	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.768	1606	0.311	ng/ml
28)		Aroclor 1248 (2)	7.008	1597	0.251	ng/ml
29)		Aroclor 1248 (3)	7.047	1643	0.277	ng/ml
30)		Aroclor 1248 (4)	7.170	1248	0.171	ng/ml
31)		Aroclor 1248 (5)	7.538	869	0.098	ng/ml
32)		Aroclor 1248 (6)	7.692	2310	0.284	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.513	666	0.079	ng/ml
35)		Aroclor 1254 (2)	7.692	2310	0.166	ng/ml
36)		Aroclor 1254 (3)	8.001	4325	0.285	ng/ml
37)		Aroclor 1254 (4)	8.245	3340	0.306	ng/ml
38)		Aroclor 1254 (5)	8.575	6615	0.588	ng/ml
39)		Aroclor 1254 (6)	8.821	4137	1.173	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.140	4099	0.389	ng/ml
42)		Aroclor 1260 (2)	8.342	6696	0.525	ng/ml
43)		Aroclor 1260 (3)	8.575	6615	0.499	ng/ml
44)		Aroclor 1260 (4)	9.060	6379	0.302	ng/ml
45)		Aroclor 1260 (5)	9.319	5763	0.471	ng/ml
46)		Aroclor 1260 (6)	9.881	7500	1.537	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B07014-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:34:25 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

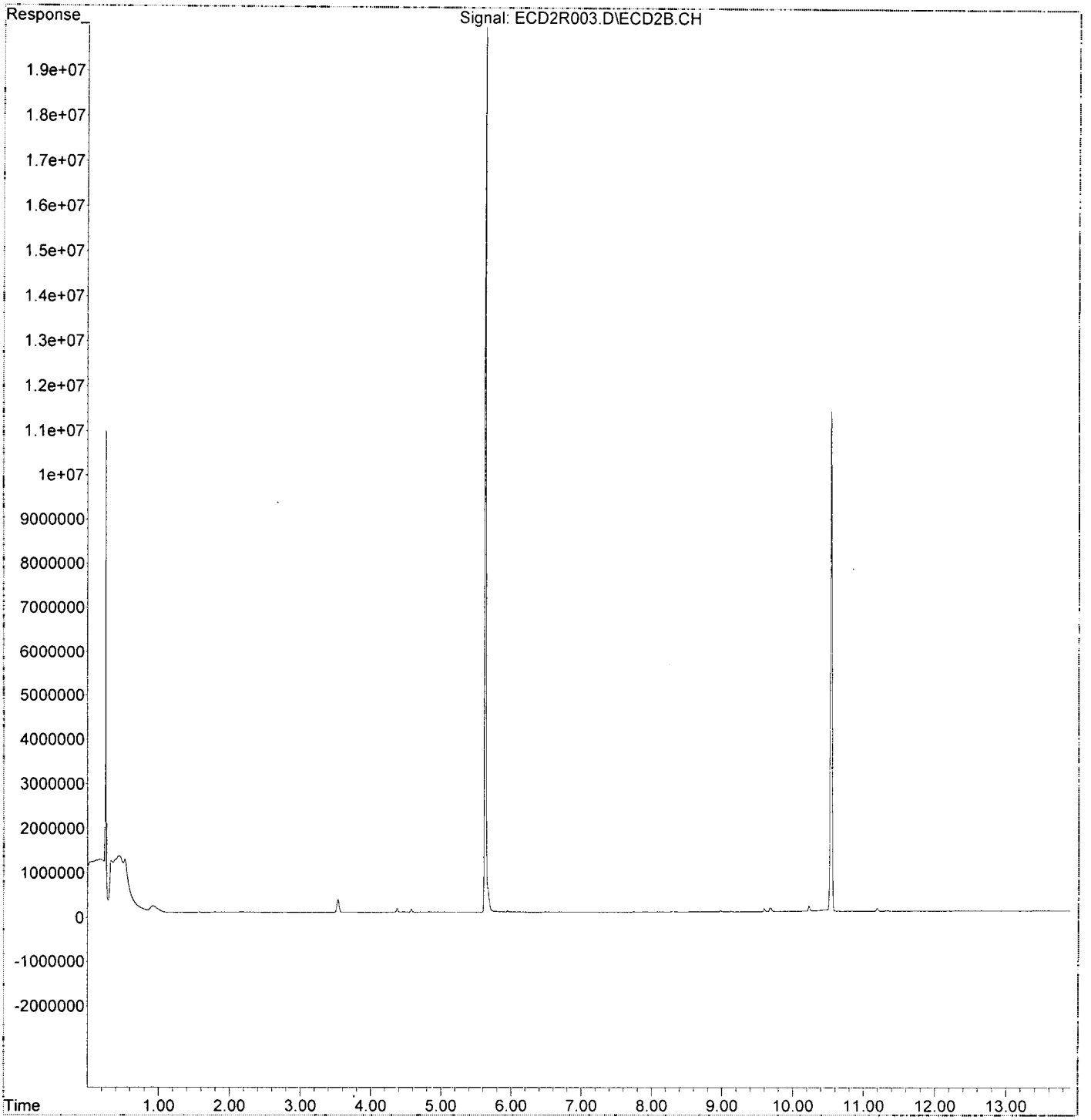
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.342	6696	0.633	ng/ml
49)	Aroclor 1262 (2)	8.644	3682	0.241	ng/ml
50)	Aroclor 1262 (3)	8.821	4137	0.323	ng/ml
51)	Aroclor 1262 (4)	9.060	6379	0.232	ng/ml
52)	Aroclor 1262 (5)	9.319	5763	0.351	ng/ml
53)	Aroclor 1262 (6)	9.881	7500	1.042	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.862	2135	0.343	ng/ml
56)	Aroclor 1268 (2)	9.319	5763	0.208	ng/ml
57)	Aroclor 1268 (3)	9.383	2868	0.127	ng/ml
58)	Aroclor 1268 (4)	9.598	73806	3.833	ng/ml
59)	Aroclor 1268 (5)	9.881	7500	0.959	ng/ml
60)	Aroclor 1268 (6)	10.230	125198	2.474	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 8:07
Operator : MJB / KAK
Sample : 0B07014-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:34:25 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 9:42
Operator : MJB / KAK
Sample : A0A1011-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:35:30 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.624	39447968	174.838	ng/ml
62)	S DCBP (S)	10.537	21967106	197.504	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.293	4274	0.691	ng/ml
3)	Aroclor 1016 (2)	6.784	3907	0.341	ng/ml
4)	Aroclor 1016 (3)	6.914	2350	0.439	ng/ml
5)	Aroclor 1016 (4)	7.014	19463	3.939	ng/ml
6)	Aroclor 1016 (5)	7.045	27089	4.885	ng/ml
7)	Aroclor 1016 (6)	7.162	2936	0.514	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.806	11209	6.451	ng/ml
10)	Aroclor 1221 (2)	5.881	7110	4.141	ng/ml
11)	Aroclor 1221 (3)	5.931	715323	125.341	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.931	715323	156.526	ng/ml
14)	Aroclor 1232 (2)	6.293	4274	1.642	ng/ml
15)	Aroclor 1232 (3)	6.784	3907	0.799	ng/ml
16)	Aroclor 1232 (4)	7.014	19463	11.504	ng/ml
17)	Aroclor 1232 (5)	7.045	27089	13.018	ng/ml
18)	Aroclor 1232 (6)	7.162	2936	1.353	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.293	4274	0.940	ng/ml
21)	Aroclor 1242 (2)	6.784	3907	0.443	ng/ml
22)	Aroclor 1242 (3)	6.914	2350	0.614	ng/ml
23)	Aroclor 1242 (4)	7.014	19463	5.892	ng/ml
24)	Aroclor 1242 (5)	7.045	27089	6.783	ng/ml
25)	Aroclor 1242 (6)	7.162	2936	0.704	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.755	4909	0.951	ng/ml
28)	Aroclor 1248 (2)	7.014	19463	3.061	ng/ml
29)	Aroclor 1248 (3)	7.045	27089	4.564	ng/ml
30)	Aroclor 1248 (4)	7.162	2936	0.402	ng/ml
31)	Aroclor 1248 (5)	7.547	1684	0.189	ng/ml
32)	Aroclor 1248 (6)	7.692	8527	1.047	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.522	14377	1.697	ng/ml
35)	Aroclor 1254 (2)	7.692	8527	0.613	ng/ml
36)	Aroclor 1254 (3)	7.989	7570	0.499	ng/ml
37)	Aroclor 1254 (4)	8.256	4711	0.432	ng/ml
38)	Aroclor 1254 (5)	8.576	4486	0.399	ng/ml
39)	Aroclor 1254 (6)	8.815	3561	1.010	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.136	4077	0.387	ng/ml
42)	Aroclor 1260 (2)	8.349	10137	0.794	ng/ml
43)	Aroclor 1260 (3)	8.576	4486	0.338	ng/ml
44)	Aroclor 1260 (4)	9.057	6109	0.289	ng/ml
45)	Aroclor 1260 (5)	9.319	3391	0.277	ng/ml
46)	Aroclor 1260 (6)	9.884	6872	1.408	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 9:42
Operator : MJB / KAK
Sample : A0A1011-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:35:30 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

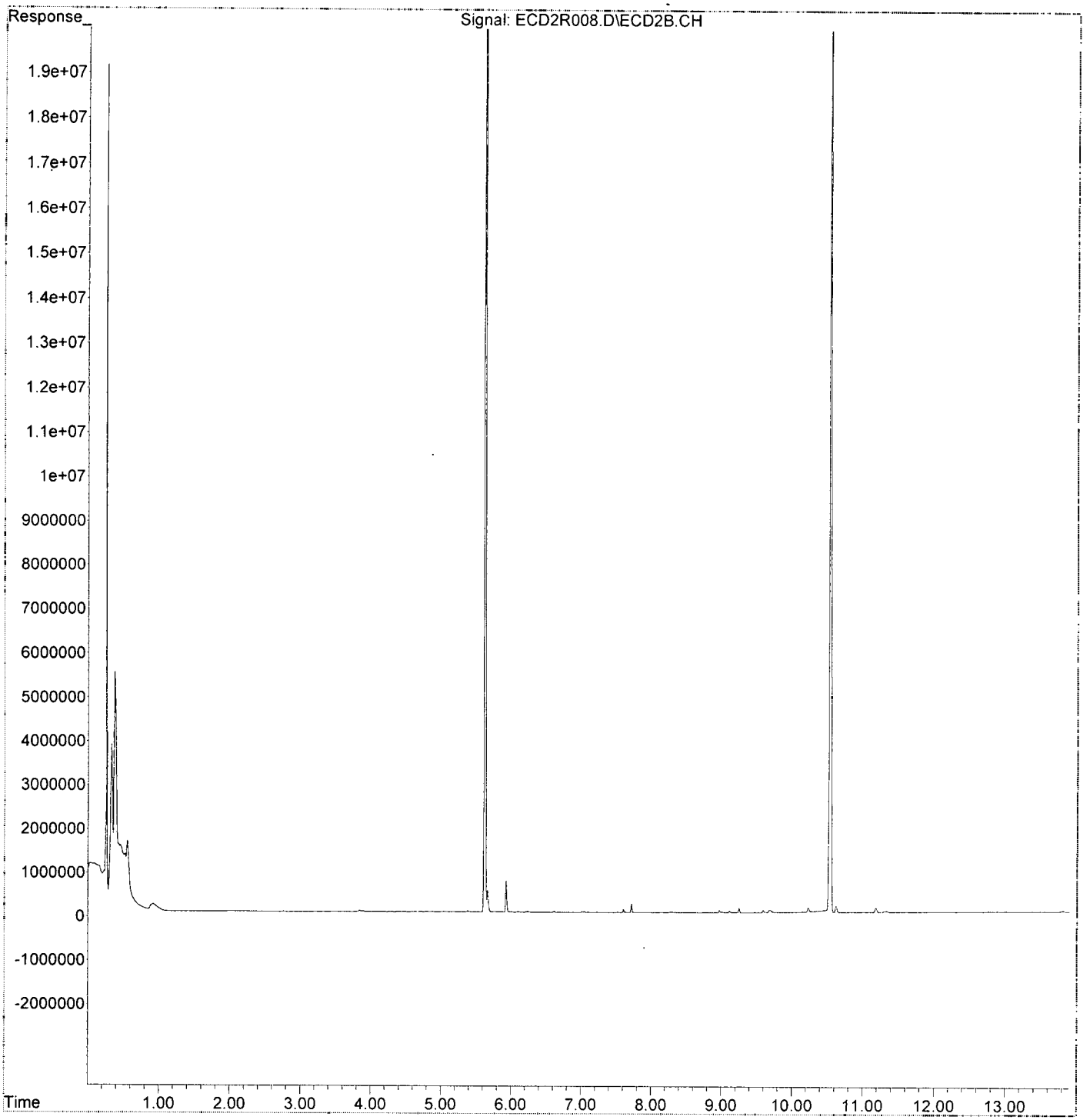
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	10137	0.959	ng/ml
49)	Aroclor 1262 (2)	8.634	4156	0.272	ng/ml
50)	Aroclor 1262 (3)	8.821	3619	0.283	ng/ml
51)	Aroclor 1262 (4)	9.057	6109	0.222	ng/ml
52)	Aroclor 1262 (5)	9.319	3391	0.207	ng/ml
53)	Aroclor 1262 (6)	9.884	6872	0.954	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.875	5773	0.926	ng/ml
56)	Aroclor 1268 (2)	9.319	3391	0.122	ng/ml
57)	Aroclor 1268 (3)	9.382	3028	0.134	ng/ml
58)	Aroclor 1268 (4)	9.596	61240	3.181	ng/ml
59)	Aroclor 1268 (5)	9.884	6872	0.878	ng/ml
60)	Aroclor 1268 (6)	10.233	109125	2.156	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 9:42
Operator : MJB / KAK
Sample : A0A1011-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:35:30 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 10:17
Operator : MJB / KAK
Sample : A0A1011-02
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:35:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.624	32008684	141.866	ng/ml
62)	S DCBP (S)	10.537	19140628	172.091	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.292	3301	0.534	ng/ml
3)	Aroclor 1016 (2)	6.782	2032	0.178	ng/ml
4)	Aroclor 1016 (3)	6.913	1762	0.329	ng/ml
5)	Aroclor 1016 (4)	7.013	23608	4.778	ng/ml
6)	Aroclor 1016 (5)	7.045	59668	10.760	ng/ml
7)	Aroclor 1016 (6)	7.165	1110	0.194	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	9215	5.303	ng/ml
10)	Aroclor 1221 (2)	5.884	5537	3.225	ng/ml
11)	Aroclor 1221 (3)	5.932	608354	106.598	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	608354	133.119	ng/ml
14)	Aroclor 1232 (2)	6.292	3301	1.268	ng/ml
15)	Aroclor 1232 (3)	6.782	2032	0.415	ng/ml
16)	Aroclor 1232 (4)	7.013	23608	13.954	ng/ml
17)	Aroclor 1232 (5)	7.045	59668	28.675	ng/ml
18)	Aroclor 1232 (6)	7.165	1110	0.512	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.292	3301	0.726	ng/ml
21)	Aroclor 1242 (2)	6.782	2032	0.230	ng/ml
22)	Aroclor 1242 (3)	6.913	1762	0.460	ng/ml
23)	Aroclor 1242 (4)	7.013	23608	7.146	ng/ml
24)	Aroclor 1242 (5)	7.045	59668	14.940	ng/ml
25)	Aroclor 1242 (6)	7.165	1110	0.266	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.755	3696	0.716	ng/ml
28)	Aroclor 1248 (2)	7.013	23608	3.712	ng/ml
29)	Aroclor 1248 (3)	7.045	59668	10.052	ng/ml
30)	Aroclor 1248 (4)	7.165	1110	0.152	ng/ml
31)	Aroclor 1248 (5)	7.553	873	0.098	ng/ml
32)	Aroclor 1248 (6)	7.692	8763	1.076	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.523	5787	0.683	ng/ml
35)	Aroclor 1254 (2)	7.692	8763	0.630	ng/ml
36)	Aroclor 1254 (3)	7.989	11412	0.752	ng/ml
37)	Aroclor 1254 (4)	8.258	5207	0.477	ng/ml
38)	Aroclor 1254 (5)	8.576	3964	0.352	ng/ml
39)	Aroclor 1254 (6)	8.817	3144	0.891	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.149	6523	0.620	ng/ml
42)	Aroclor 1260 (2)	8.349	15411	1.208	ng/ml
43)	Aroclor 1260 (3)	8.576	3964	0.299	ng/ml
44)	Aroclor 1260 (4)	9.057	3201	0.151	ng/ml
45)	Aroclor 1260 (5)	9.322	2823	0.231	ng/ml
46)	Aroclor 1260 (6)	9.891	4577	0.938	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 10:17
Operator : MJB / KAK
Sample : A0A1011-02
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:35:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

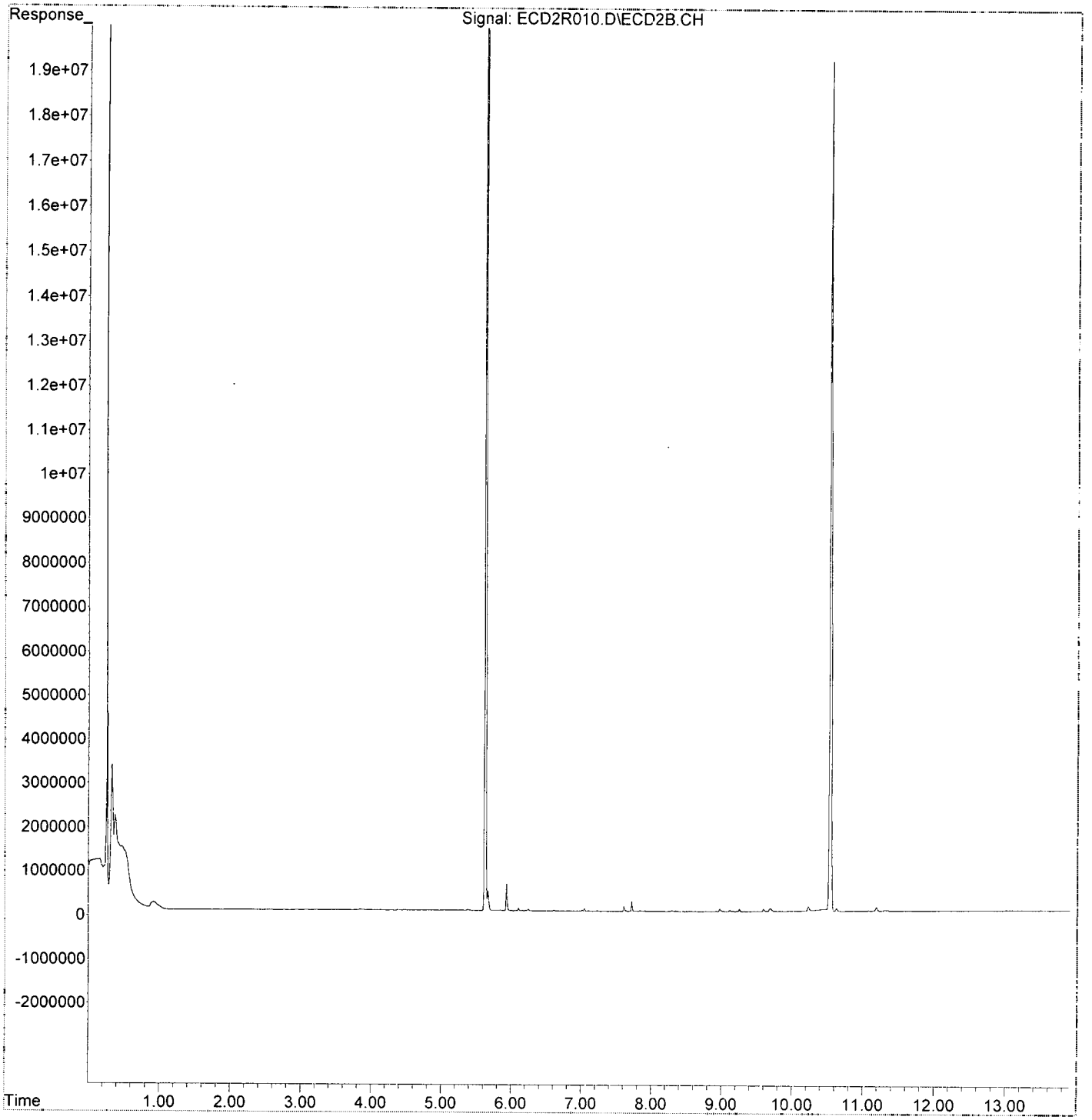
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	15411	1.458	ng/ml
49)	Aroclor 1262 (2)	8.654	2660	0.174	ng/ml
50)	Aroclor 1262 (3)	8.817	3144	0.246	ng/ml
51)	Aroclor 1262 (4)	9.057	3201	0.116	ng/ml
52)	Aroclor 1262 (5)	9.322	2823	0.172	ng/ml
53)	Aroclor 1262 (6)	9.891	4577	0.636	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.886	4565	0.733	ng/ml
56)	Aroclor 1268 (2)	9.322	2823	0.102	ng/ml
57)	Aroclor 1268 (3)	9.385	2029	0.090	ng/ml
58)	Aroclor 1268 (4)	9.596	57623	2.993	ng/ml
59)	Aroclor 1268 (5)	9.891	4577	0.585	ng/ml
60)	Aroclor 1268 (6)	10.230	109221	2.158	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 10:17
Operator : MJB / KAK
Sample : A0A1011-02
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:35:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 10:53
Operator : MJB / KAK
Sample : A0A1011-03
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:14 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	35727089	158.347	ng/ml
62)	S DCBP (S)	10.536	21654394	194.692	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.293	2950	0.477	ng/ml
3)	Aroclor 1016 (2)	6.786	3027	0.265	ng/ml
4)	Aroclor 1016 (3)	6.912	2177	0.406	ng/ml
5)	Aroclor 1016 (4)	7.013	21018	4.254	ng/ml
6)	Aroclor 1016 (5)	7.045	72986	13.161	ng/ml
7)	Aroclor 1016 (6)	7.173	1958	0.343	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.807	6674	3.841	ng/ml
10)	Aroclor 1221 (2)	5.886	2411	1.404	ng/ml
11)	Aroclor 1221 (3)	5.932	653792	114.559	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	653792	143.062	ng/ml
14)	Aroclor 1232 (2)	6.293	2950	1.134	ng/ml
15)	Aroclor 1232 (3)	6.786	3027	0.619	ng/ml
16)	Aroclor 1232 (4)	7.013	21018	12.423	ng/ml
17)	Aroclor 1232 (5)	7.045	72986	35.075	ng/ml
18)	Aroclor 1232 (6)	7.173	1958	0.902	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.293	2950	0.649	ng/ml
21)	Aroclor 1242 (2)	6.786	3027	0.343	ng/ml
22)	Aroclor 1242 (3)	6.912	2177	0.568	ng/ml
23)	Aroclor 1242 (4)	7.013	21018	6.362	ng/ml
24)	Aroclor 1242 (5)	7.045	72986	18.274	ng/ml
25)	Aroclor 1242 (6)	7.173	1958	0.469	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.756	3595	0.696	ng/ml
28)	Aroclor 1248 (2)	7.013	21018	3.305	ng/ml
29)	Aroclor 1248 (3)	7.045	72986	12.296	ng/ml
30)	Aroclor 1248 (4)	7.173	1958	0.268	ng/ml
31)	Aroclor 1248 (5)	7.542	640	0.072	ng/ml
32)	Aroclor 1248 (6)	7.692	7589	0.932	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.524	2054	0.242	ng/ml
35)	Aroclor 1254 (2)	7.692	7589	0.546	ng/ml
36)	Aroclor 1254 (3)	7.994	5428	0.358	ng/ml
37)	Aroclor 1254 (4)	8.248	2560	0.234	ng/ml
38)	Aroclor 1254 (5)	8.576	4624	0.411	ng/ml
39)	Aroclor 1254 (6)	8.804	2971	0.842	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.142	1725	0.164	ng/ml
42)	Aroclor 1260 (2)	8.337	6449	0.505	ng/ml
43)	Aroclor 1260 (3)	8.576	4624	0.349	ng/ml
44)	Aroclor 1260 (4)	9.055	3971	0.188	ng/ml
45)	Aroclor 1260 (5)	9.321	4044	0.331	ng/ml
46)	Aroclor 1260 (6)	9.888	6569	1.346	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 10:53
Operator : MJB / KAK
Sample : A0A1011-03
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:14 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

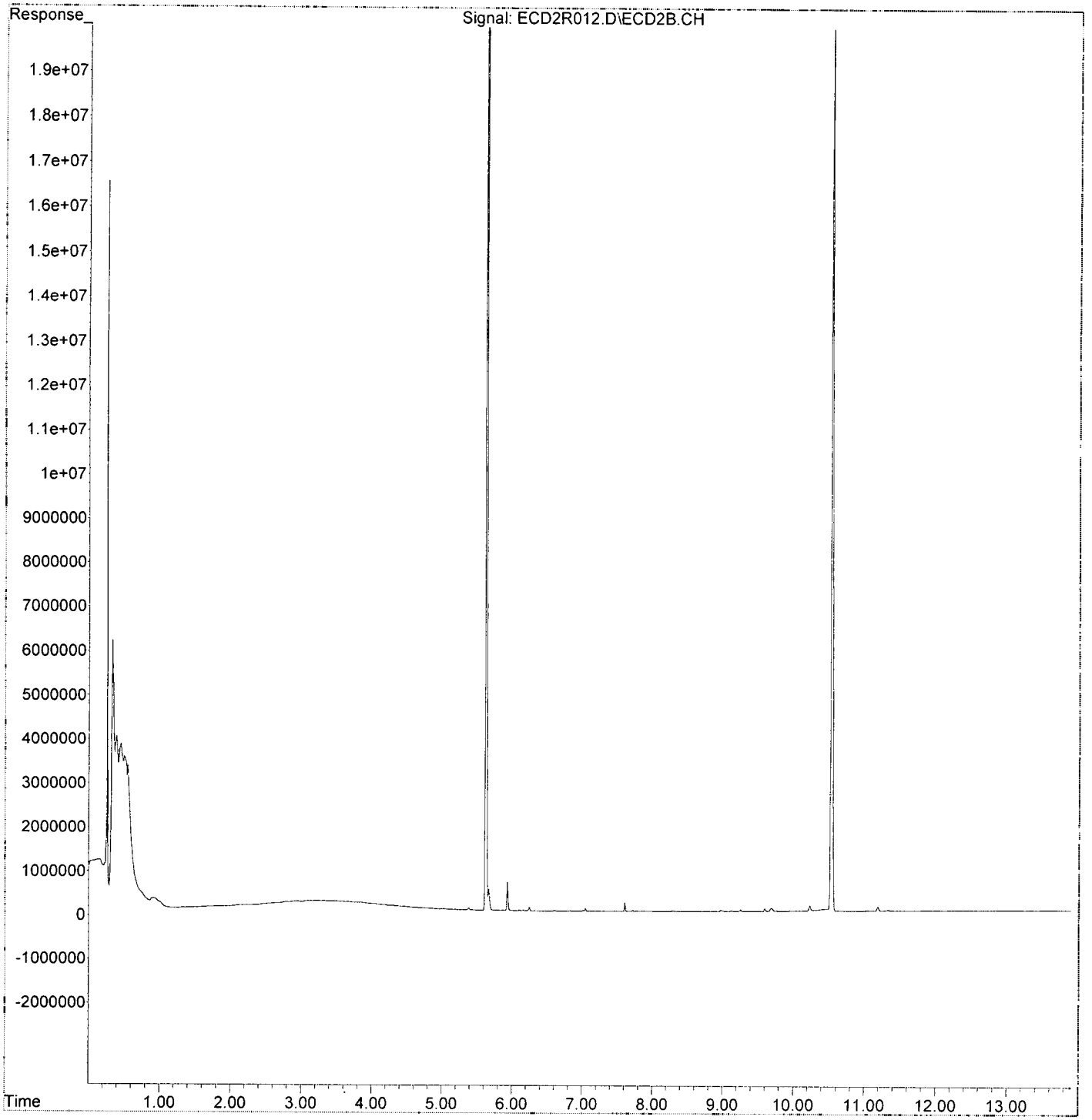
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.337	6449	0.610	ng/ml
49)	Aroclor 1262 (2)	8.645	3814	0.250	ng/ml
50)	Aroclor 1262 (3)	8.817	3332	0.260	ng/ml
51)	Aroclor 1262 (4)	9.055	3971	0.144	ng/ml
52)	Aroclor 1262 (5)	9.321	4044	0.246	ng/ml
53)	Aroclor 1262 (6)	9.888	6569	0.912	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.861	1479	0.237	ng/ml
56)	Aroclor 1268 (2)	9.321	4044	0.146	ng/ml
57)	Aroclor 1268 (3)	9.382	2691	0.120	ng/ml
58)	Aroclor 1268 (4)	9.595	69085	3.588	ng/ml
59)	Aroclor 1268 (5)	9.888	6569	0.840	ng/ml
60)	Aroclor 1268 (6)	10.231	129387	2.556	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 10:53
Operator : MJB / KAK
Sample : A0A1011-03
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:14 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 11:28
Operator : MJB / KAK
Sample : 0020004-MS1
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:36 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.625	39399869	174.625	ng/ml
62)	S	DCBP (S)	10.538	21726298	195.339	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.295	4615463	746.599	ng/ml
3)		Aroclor 1016 (2)	6.785	9486326	829.126	ng/ml
4)		Aroclor 1016 (3)	6.912	3612862	674.481	ng/ml
5)		Aroclor 1016 (4)	6.999	3979723	805.488	ng/ml
6)		Aroclor 1016 (5)	7.043	4371471	788.289	ng/ml
7)		Aroclor 1016 (6)	7.168	4056173	710.043	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.801	282725	162.718	ng/ml
10)		Aroclor 1221 (2)	5.874	564700	328.892	ng/ml
11)		Aroclor 1221 (3)	5.960	2839600	497.563	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.960	2839600	621.357	ng/ml
14)		Aroclor 1232 (2)	6.295	4615463	1773.314	ng/ml
15)		Aroclor 1232 (3)	6.785	9486326	1939.167	ng/ml
16)		Aroclor 1232 (4)	6.999	3979723	2352.308	ng/ml
17)		Aroclor 1232 (5)	7.043	4371471	2100.815	ng/ml
18)		Aroclor 1232 (6)	7.168	4056173	1869.484	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.295	4615463	1015.206	ng/ml
21)		Aroclor 1242 (2)	6.785	9486326	1075.248	ng/ml
22)		Aroclor 1242 (3)	6.912	3612862	943.264	ng/ml
23)		Aroclor 1242 (4)	6.999	3979723	1204.665	ng/ml
24)		Aroclor 1242 (5)	7.043	4371471	1094.529	ng/ml
25)		Aroclor 1242 (6)	7.168	4056173	972.514	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.758	7674695	1486.759	ng/ml
28)		Aroclor 1248 (2)	6.999	3979723	625.807	ng/ml
29)		Aroclor 1248 (3)	7.043	4371471	736.462	ng/ml
30)		Aroclor 1248 (4)	7.168	4056173	555.982	ng/ml
31)		Aroclor 1248 (5)	7.533	919648	103.311	ng/ml
32)		Aroclor 1248 (6)	7.692	3601071	442.326	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.511	2874535	339.224	ng/ml
35)		Aroclor 1254 (2)	7.692	3601071	258.887	ng/ml
36)		Aroclor 1254 (3)	8.002	1799148	118.565	ng/ml
37)		Aroclor 1254 (4)	8.241	1373379	125.808	ng/ml
38)		Aroclor 1254 (5)	8.576	11624500	1033.412	ng/ml
39)		Aroclor 1254 (6)	8.822	8050520	2282.423	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.138	9021317	856.899	ng/ml
42)		Aroclor 1260 (2)	8.345	11178091	875.857	ng/ml
43)		Aroclor 1260 (3)	8.576	11624500	876.582	ng/ml
44)		Aroclor 1260 (4)	9.059	20306794	960.020	ng/ml
45)		Aroclor 1260 (5)	9.317	10788312	881.778	ng/ml
46)		Aroclor 1260 (6)	9.880	4364143	894.299	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 11:28
Operator : MJB / KAK
Sample : 0020004-MS1
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:36 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

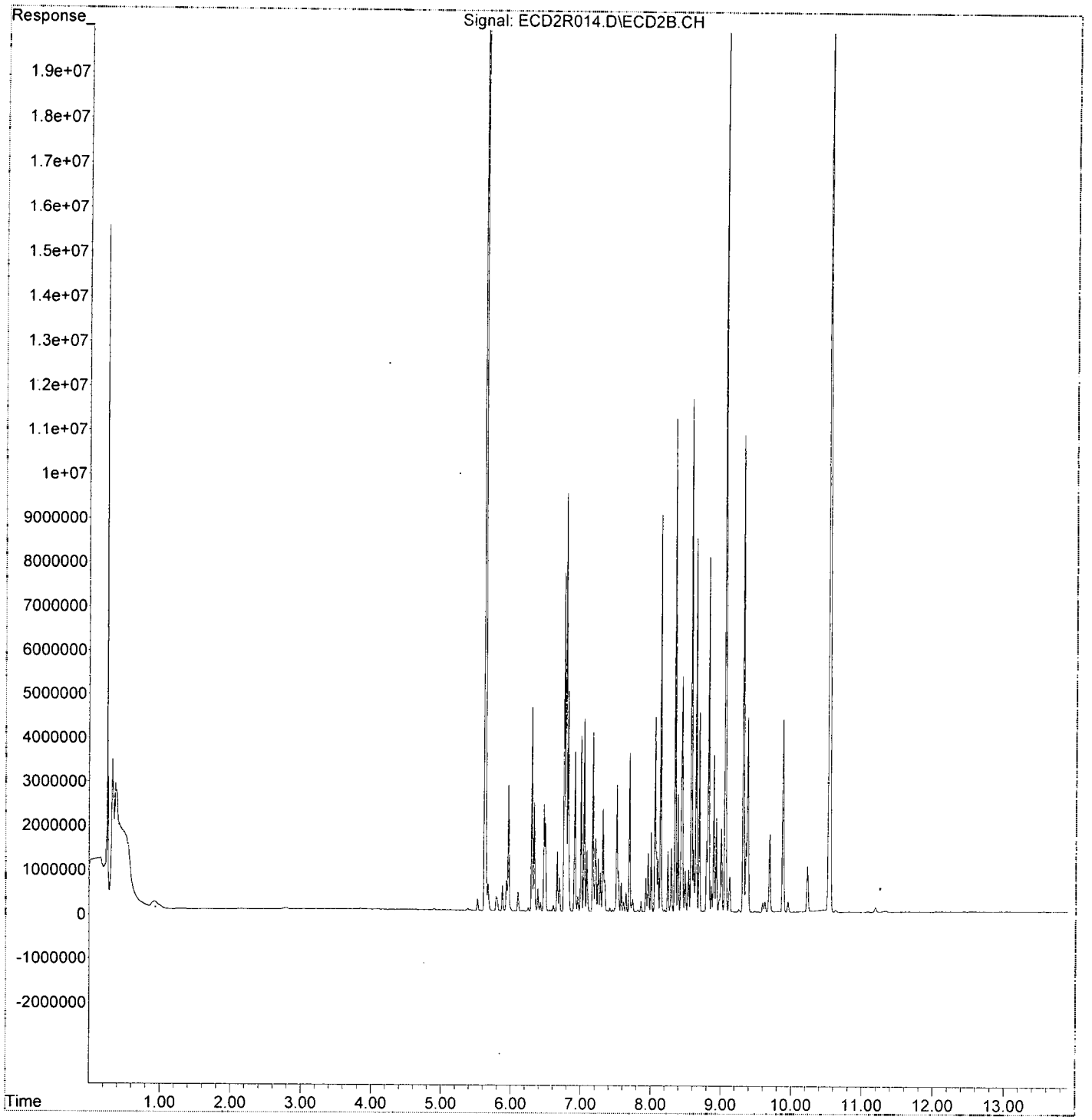
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	11178091	1057.360	ng/ml
49)	Aroclor 1262 (2)	8.645	8475514	554.771	ng/ml
50)	Aroclor 1262 (3)	8.822	8050520	628.741	ng/ml
51)	Aroclor 1262 (4)	9.059	20306794	737.769	ng/ml
52)	Aroclor 1262 (5)	9.317	10788312	657.041	ng/ml
53)	Aroclor 1262 (6)	9.880	4364143	606.086	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	577522	92.668	ng/ml
56)	Aroclor 1268 (2)	9.317	10788312	388.537	ng/ml
57)	Aroclor 1268 (3)	9.380	4409574	195.839	ng/ml
58)	Aroclor 1268 (4)	9.594	218090	11.327	ng/ml
59)	Aroclor 1268 (5)	9.880	4364143	557.848	ng/ml
60)	Aroclor 1268 (6)	10.227	1034826	20.445	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 11:28
Operator : MJB / KAK
Sample : 0020004-MS1
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:36 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:03
Operator : MJB / KAK
Sample : 0020004-MSD1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:58 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.624	32429309	143.730	ng/ml
62) S	DCBP (S)	10.537	20833214	187.309	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.295	4636272	749.965	ng/ml
3)	Aroclor 1016 (2)	6.784	9317700	814.388	ng/ml
4)	Aroclor 1016 (3)	6.911	3374538	629.989	ng/ml
5)	Aroclor 1016 (4)	6.998	3947056	798.876	ng/ml
6)	Aroclor 1016 (5)	7.042	4466457	805.417	ng/ml
7)	Aroclor 1016 (6)	7.168	4086193	715.298	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.799	249226	143.438	ng/ml
10)	Aroclor 1221 (2)	5.873	539051	313.953	ng/ml
11)	Aroclor 1221 (3)	5.960	2644652	463.404	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.960	2644652	578.699	ng/ml
14)	Aroclor 1232 (2)	6.295	4636272	1781.309	ng/ml
15)	Aroclor 1232 (3)	6.784	9317700	1904.697	ng/ml
16)	Aroclor 1232 (4)	6.998	3947056	2333.000	ng/ml
17)	Aroclor 1232 (5)	7.042	4466457	2146.463	ng/ml
18)	Aroclor 1232 (6)	7.168	4086193	1883.320	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.295	4636272	1019.783	ng/ml
21)	Aroclor 1242 (2)	6.784	9317700	1056.135	ng/ml
22)	Aroclor 1242 (3)	6.911	3374538	881.041	ng/ml
23)	Aroclor 1242 (4)	6.998	3947056	1194.777	ng/ml
24)	Aroclor 1242 (5)	7.042	4466457	1118.312	ng/ml
25)	Aroclor 1242 (6)	7.168	4086193	979.712	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.757	7387655	1431.153	ng/ml
28)	Aroclor 1248 (2)	6.998	3947056	620.670	ng/ml
29)	Aroclor 1248 (3)	7.042	4466457	752.464	ng/ml
30)	Aroclor 1248 (4)	7.168	4086193	560.097	ng/ml
31)	Aroclor 1248 (5)	7.533	929477	104.415	ng/ml
32)	Aroclor 1248 (6)	7.691	3836541	471.249	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	2975213	351.105	ng/ml
35)	Aroclor 1254 (2)	7.691	3836541	275.815	ng/ml
36)	Aroclor 1254 (3)	8.001	1888007	124.421	ng/ml
37)	Aroclor 1254 (4)	8.240	1411284	129.280	ng/ml
38)	Aroclor 1254 (5)	8.575	11100356	986.816	ng/ml
39)	Aroclor 1254 (6)	8.821	8673460	2459.034	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	9265194	880.064	ng/ml
42)	Aroclor 1260 (2)	8.343	12402319	971.781	ng/ml
43)	Aroclor 1260 (3)	8.575	11100356	837.058	ng/ml
44)	Aroclor 1260 (4)	9.059	20896114	987.880	ng/ml
45)	Aroclor 1260 (5)	9.316	11353697	927.989	ng/ml
46)	Aroclor 1260 (6)	9.880	4721870	967.604	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:03
Operator : MJB / KAK
Sample : 0020004-MSD1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:58 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

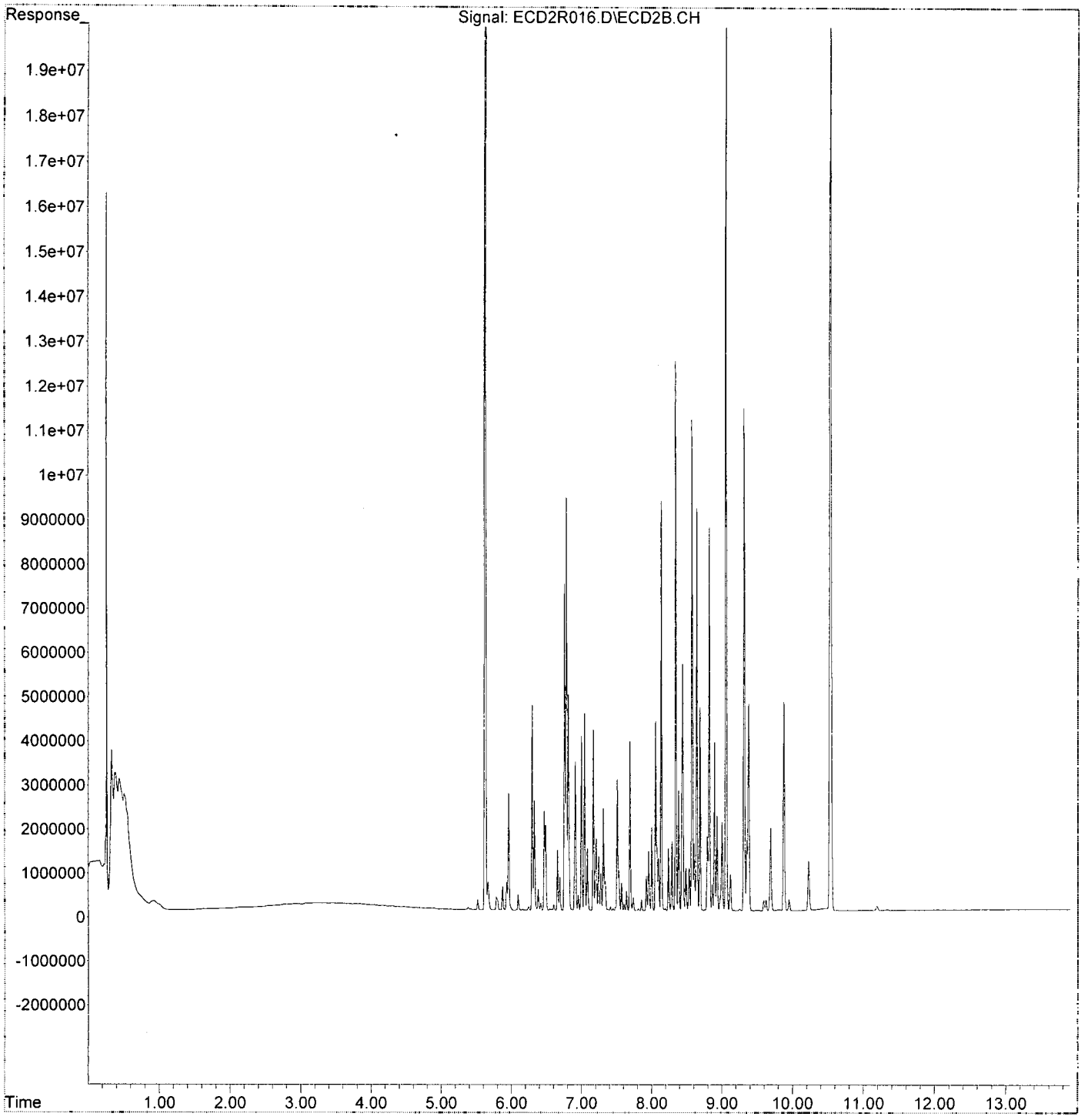
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.343	12402319	1173.163	ng/ml
49)	Aroclor 1262 (2)	8.644	9084361	594.623	ng/ml
50)	Aroclor 1262 (3)	8.821	8673460	677.392	ng/ml
51)	Aroclor 1262 (4)	9.059	20896114	759.179	ng/ml
52)	Aroclor 1262 (5)	9.316	11353697	691.474	ng/ml
53)	Aroclor 1262 (6)	9.880	4721870	655.767	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.862	606160	97.263	ng/ml
56)	Aroclor 1268 (2)	9.316	11353697	408.899	ng/ml
57)	Aroclor 1268 (3)	9.380	4685847	208.109	ng/ml
58)	Aroclor 1268 (4)	9.593	237724	12.347	ng/ml
59)	Aroclor 1268 (5)	9.880	4721870	603.574	ng/ml
60)	Aroclor 1268 (6)	10.228	1129963	22.325	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:03
Operator : MJB / KAK
Sample : 0020004-MSD1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:36:58 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:38
Operator : MJB / KAK
Sample : 0B07014-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:37:20 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.627	60340284	267.435	ng/ml	
62)	S DCBP (S)	10.539	33150140	298.049	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.296	3177030	513.918	ng/ml	
3)	Aroclor 1016 (2)	6.786	5839633	510.397	ng/ml	
4)	Aroclor 1016 (3)	6.913	2584339	482.467	ng/ml	✓
5)	Aroclor 1016 (4)	6.999	2556525	517.436	ng/ml	
6)	Aroclor 1016 (5)	7.044	2992275	539.584	ng/ml	
7)	Aroclor 1016 (6)	7.168	3000755	525.289	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.787	274081	157.743	ng/ml	
10)	Aroclor 1221 (2)	5.874	432675	251.998	ng/ml	
11)	Aroclor 1221 (3)	5.962	1992813	349.187	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.962	1992813	436.064	ng/ml	
14)	Aroclor 1232 (2)	6.296	3177030	1220.651	ng/ml	
15)	Aroclor 1232 (3)	6.786	5839633	1193.720	ng/ml	
16)	Aroclor 1232 (4)	6.999	2556525	1511.094	ng/ml	
17)	Aroclor 1232 (5)	7.044	2992275	1438.010	ng/ml	
18)	Aroclor 1232 (6)	7.168	3000755	1383.043	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.296	3177030	698.812	ng/ml	
21)	Aroclor 1242 (2)	6.786	5839633	661.906	ng/ml	
22)	Aroclor 1242 (3)	6.913	2584339	674.732	ng/ml	
23)	Aroclor 1242 (4)	6.999	2556525	773.862	ng/ml	
24)	Aroclor 1242 (5)	7.044	2992275	749.206	ng/ml	
25)	Aroclor 1242 (6)	7.168	3000755	719.465	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.759	4693942	909.321	ng/ml	
28)	Aroclor 1248 (2)	6.999	2556525	402.010	ng/ml	
29)	Aroclor 1248 (3)	7.044	2992275	504.109	ng/ml	
30)	Aroclor 1248 (4)	7.168	3000755	411.315	ng/ml	
31)	Aroclor 1248 (5)	7.534	679374	76.319	ng/ml	
32)	Aroclor 1248 (6)	7.692	2425217	297.894	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.511	2068508	244.105	ng/ml	
35)	Aroclor 1254 (2)	7.692	2425217	174.353	ng/ml	
36)	Aroclor 1254 (3)	8.003	1396778	92.049	ng/ml	
37)	Aroclor 1254 (4)	8.242	959543	87.899	ng/ml	
38)	Aroclor 1254 (5)	8.576	7286947	647.806	ng/ml	
39)	Aroclor 1254 (6)	8.822	5266726	1493.182	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	8.138	5747604	545.942	ng/ml	
42)	Aroclor 1260 (2)	8.344	7020998	550.129	ng/ml	
43)	Aroclor 1260 (3)	8.576	7286947	549.495	ng/ml	
44)	Aroclor 1260 (4)	9.059	12267397	579.951	ng/ml	✓
45)	Aroclor 1260 (5)	9.317	7121411	582.065	ng/ml	
46)	Aroclor 1260 (6)	9.880	2893463	592.928	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:38
Operator : MJB / KAK
Sample : 0B07014-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:37:20 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

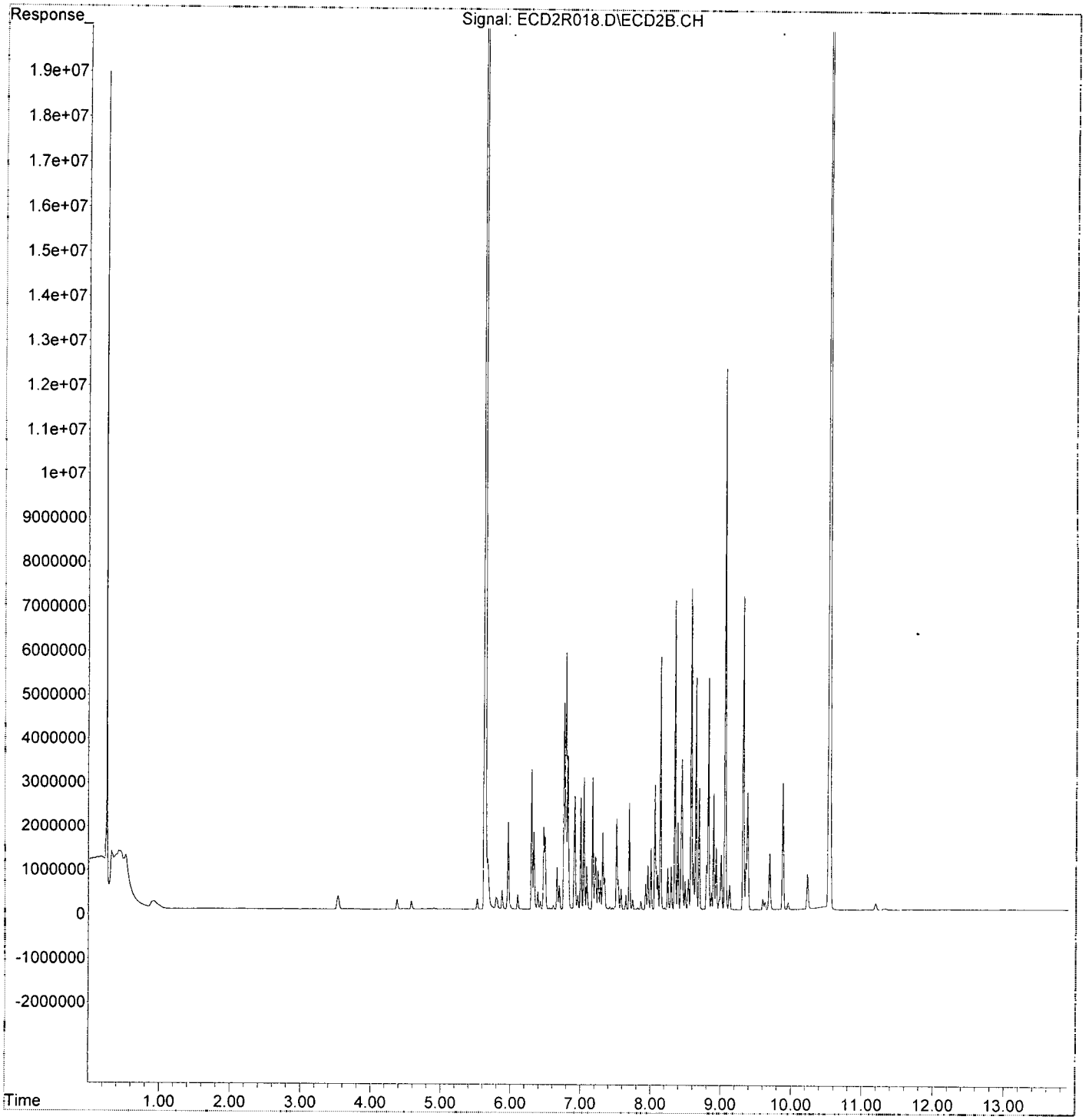
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.344	7020998	664.132	ng/ml
49)	Aroclor 1262 (2)	8.644	5274565	345.250	ng/ml
50)	Aroclor 1262 (3)	8.822	5266726	411.328	ng/ml
51)	Aroclor 1262 (4)	9.059	12267397	445.688	ng/ml
52)	Aroclor 1262 (5)	9.317	7121411	433.715	ng/ml
53)	Aroclor 1262 (6)	9.880	2893463	401.840	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	396006	63.542	ng/ml
56)	Aroclor 1268 (2)	9.317	7121411	256.475	ng/ml
57)	Aroclor 1268 (3)	9.381	2676766	118.881	ng/ml
58)	Aroclor 1268 (4)	9.596	247639	12.862	ng/ml
59)	Aroclor 1268 (5)	9.880	2893463	369.858	ng/ml
60)	Aroclor 1268 (6)	10.229	815866	16.119	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:38
Operator : MJB / KAK
Sample : 0B07014-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:37:20 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:56
Operator : MJB / KAK
Sample : 0B07014-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/10/20 clear

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.625	20721408	91.840	ng/ml
62) S	DCBP (S)	10.536	11908149	107.065	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	2201	0.356	ng/ml
3)	Aroclor 1016 (2)	6.795	3190	0.279	ng/ml
4)	Aroclor 1016 (3)	6.916	2374	0.443	ng/ml
5)	Aroclor 1016 (4)	7.011	2142	0.433	ng/ml
6)	Aroclor 1016 (5)	7.049	2343	0.422	ng/ml
7)	Aroclor 1016 (6)	7.167	1765	0.309	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	15247	8.775	ng/ml
10)	Aroclor 1221 (2)	5.945f	34383	20.025	ng/ml
11)	Aroclor 1221 (3)	5.945	34383	6.025	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.945	34383	7.524	ng/ml
14)	Aroclor 1232 (2)	6.297	2201	0.846	ng/ml
15)	Aroclor 1232 (3)	6.795	3190	0.652	ng/ml
16)	Aroclor 1232 (4)	6.994	2151	1.271	ng/ml
17)	Aroclor 1232 (5)	7.049	2343	1.126	ng/ml
18)	Aroclor 1232 (6)	7.167	1765	0.814	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	2201	0.484	ng/ml
21)	Aroclor 1242 (2)	6.795	3190	0.362	ng/ml
22)	Aroclor 1242 (3)	6.916	2374	0.620	ng/ml
23)	Aroclor 1242 (4)	7.011	2142	0.648	ng/ml
24)	Aroclor 1242 (5)	7.049	2343	0.587	ng/ml
25)	Aroclor 1242 (6)	7.167	1765	0.423	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.769	2510	0.486	ng/ml
28)	Aroclor 1248 (2)	7.011	2142	0.337	ng/ml
29)	Aroclor 1248 (3)	7.049	2343	0.395	ng/ml
30)	Aroclor 1248 (4)	7.167	1765	0.242	ng/ml
31)	Aroclor 1248 (5)	7.541	733	0.082	ng/ml
32)	Aroclor 1248 (6)	7.694	2826	0.347	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.516	1122	0.132	ng/ml
35)	Aroclor 1254 (2)	7.694	2826	0.203	ng/ml
36)	Aroclor 1254 (3)	7.997	5529	0.364	ng/ml
37)	Aroclor 1254 (4)	8.243	3677	0.337	ng/ml
38)	Aroclor 1254 (5)	8.574	9878	0.878	ng/ml
39)	Aroclor 1254 (6)	8.822	5952	1.687	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	5140	0.488	ng/ml
42)	Aroclor 1260 (2)	8.342	10189	0.798	ng/ml
43)	Aroclor 1260 (3)	8.574	9878	0.745	ng/ml
44)	Aroclor 1260 (4)	9.058	11609	0.549	ng/ml
45)	Aroclor 1260 (5)	9.317	9992	0.817	ng/ml
46)	Aroclor 1260 (6)	9.881	8680	1.779	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:56
Operator : MJB / KAK
Sample : 0B07014-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

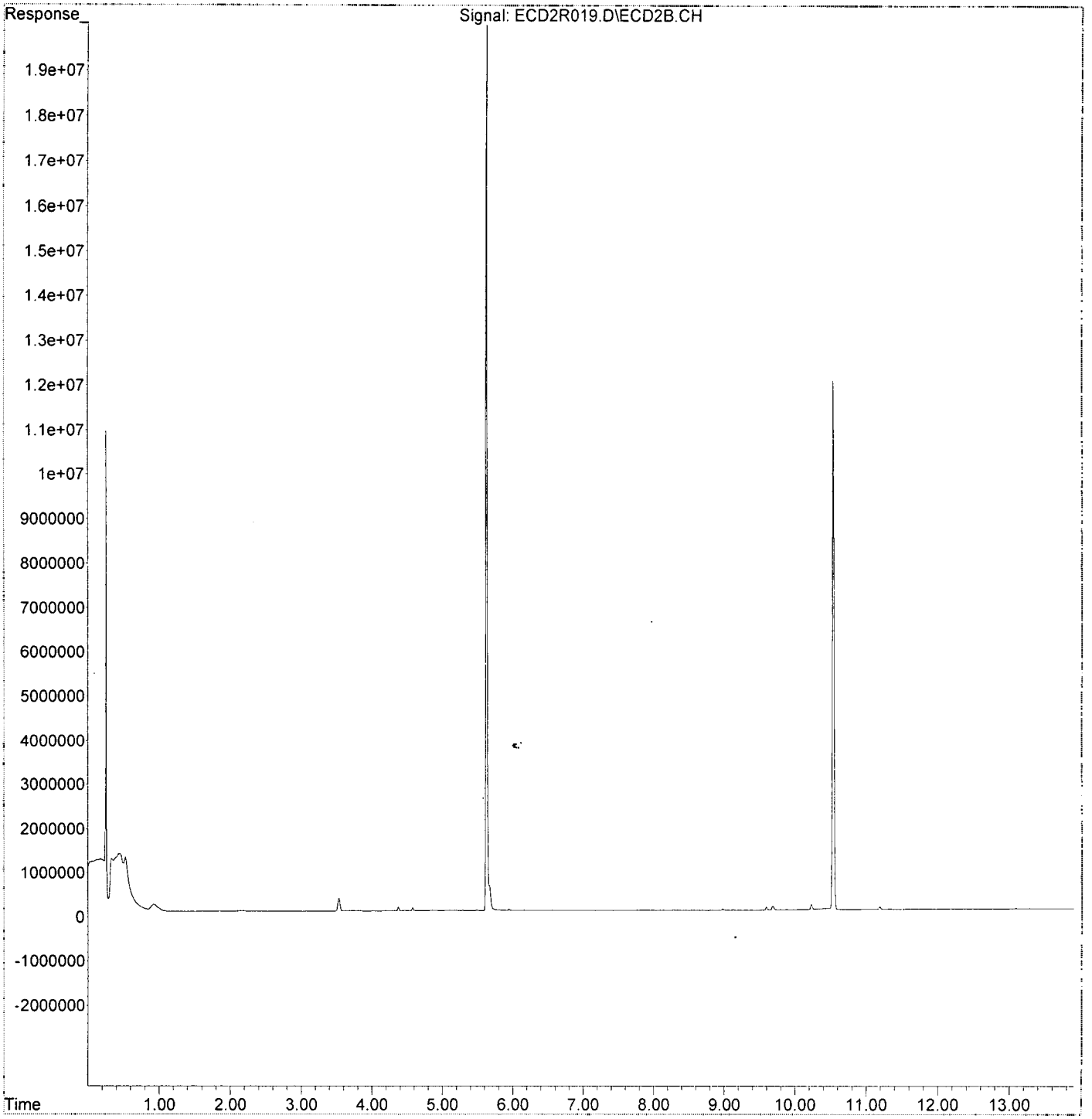
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.342	10189	0.964 ng/ml
49)	Aroclor 1262 (2)	8.643	5726	0.375 ng/ml
50)	Aroclor 1262 (3)	8.822	5952	0.465 ng/ml
51)	Aroclor 1262 (4)	9.058	11609	0.422 ng/ml
52)	Aroclor 1262 (5)	9.317	9992	0.609 ng/ml
53)	Aroclor 1262 (6)	9.881	8680	1.205 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.867	1637	0.263 ng/ml
56)	Aroclor 1268 (2)	9.317	9992	0.360 ng/ml
57)	Aroclor 1268 (3)	9.381	4218	0.187 ng/ml
58)	Aroclor 1268 (4)	9.595	73804	3.833 ng/ml
59)	Aroclor 1268 (5)	9.881	8680	1.109 ng/ml
60)	Aroclor 1268 (6)	10.228	120944	2.389 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B07014\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 07 Feb 2020 12:56
Operator : MJB / KAK
Sample : 0B07014-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 10:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Sequence 0B06012 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B06012** Instrument: **DUALECD2R**

Date: **02/06/20 07:20** Calibration: **A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B06012-CCV1	Sediment	QC	QC				A20A394
2	0B06012-CCB1	Sediment	QC	QC				A20A395
3	0020004-BLK1	Sediment	QC	QC		0020004		
4	0020004-BS1	Sediment	QC	QC		0020004		
5	A0A0991-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
6	0B06012-IBL1	Sediment	QC	QC				
7	A0A0991-02	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
8	0B06012-IBL2	Sediment	QC	QC				
9	0020004-DUP1	Sediment	QC	QC		0020004		
10	0B06012-IBL3	Sediment	QC	QC				
11	A0A0991-03	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
12	0B06012-IBL4	Sediment	QC	QC				
13	A0A0991-04	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
14	0B06012-IBL5	Sediment	QC	QC				
15	A0A0991-05	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
16	0B06012-IBL6	Sediment	QC	QC				
17	0B06012-CCV2	Sediment	QC	QC				A20A394
18	0B06012-CCB2	Sediment	QC	QC				A20A395
19	A0A0996-03	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
20	0B06012-IBL7	Sediment	QC	QC				
21	A0A0996-04	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
22	0B06012-IBL8	Sediment	QC	QC				
23	A0A0996-05	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
24	0B06012-IBL9	Sediment	QC	QC				
25	A0A0996-06	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
26	0B06012-IBLA	Sediment	QC	QC				
27	A0A1002-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020004		
28	0B06012-IBLB	Sediment	QC	QC				
29	0B06012-CCV3	Sediment	QC	QC				A20A394
30	0B06012-CCB3	Sediment	QC	QC				A20A395

Comments:

Data Entered By: 2/7/20

Data Reviewed By: 2/11/20

TOTAL AROCLOR AVERAGE RESULTS

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

0B06012-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	494.39
1016 (2)	484.55
1016 (3)	475.38
1016 (4)	495.91
1016 (5)	469.69
1016 (6)	473.42
Average:	**482.22**

Aroclor 1260

Peak	Initial Res
1260 (1)	505.76
1260 (2)	517.46
1260 (3)	503.23
1260 (4)	538.29
1260 (5)	567.65
1260 (6)	531.82
Average:	**527.37**

0020004-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	711.60
1016 (2)	782.23
1016 (3)	586.65
1016 (4)	860.56
1016 (5)	843.88
1016 (6)	738.51
Average:	**753.91**

Aroclor 1260

Peak	Initial Res
1260 (1)	964.68
1260 (2)	1,018.25
1260 (3)	948.76
1260 (4)	1,104.76
1260 (5)	1,050.85
1260 (6)	1,078.67
Average:	**1,027.66**

TOTAL AROCLOR AVERAGE RESULTS

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

0B06012-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	505.83
1016 (2)	499.84
1016 (3)	479.30
1016 (4)	513.79
1016 (5)	517.53
1016 (6)	508.54
Average:	**504.14**

Aroclor 1260

Peak	Initial Res
1260 (1)	538.87
1260 (2)	554.18
1260 (3)	536.66
1260 (4)	557.34
1260 (5)	574.49
1260 (6)	553.40
Average:	**552.49**

0B06012-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	522.66
1016 (2)	489.19
1016 (3)	482.92
1016 (4)	523.11
1016 (5)	495.68
1016 (6)	501.37
Average:	**502.49**

Aroclor 1260

Peak	Initial Res
1260 (1)	538.84
1260 (2)	544.95
1260 (3)	534.09
1260 (4)	569.60
1260 (5)	563.28
1260 (6)	543.41
Average:	**549.03**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 7:57
Operator : MJB / KAK
Sample : 0B06012-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

2/7/20

Integration File: events.e
Quant Time: Feb 07 09:08:15 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.627	56801748	251.752	ng/ml
62) S	DCBP (S)	10.541	30744129	276.417	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	3056338	494.394	ng/ml
3)	Aroclor 1016 (2)	6.787	5543959	484.555	ng/ml
4)	Aroclor 1016 (3)	6.914	2546382	475.381	ng/ml
5)	Aroclor 1016 (4)	7.000	2450175	495.911	ng/ml
6)	Aroclor 1016 (5)	7.045	2604693	469.693	ng/ml
7)	Aroclor 1016 (6)	7.170	2704474	473.425	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.801	228594	131.564	ng/ml
10)	Aroclor 1221 (2)	5.875	420827	245.098	ng/ml
11)	Aroclor 1221 (3)	5.963	1893883	331.852	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.963	1893883	414.417	ng/ml
14)	Aroclor 1232 (2)	6.297	3056338	1174.280	ng/ml
15)	Aroclor 1232 (3)	6.787	5543959	1133.280	ng/ml
16)	Aroclor 1232 (4)	7.000	2450175	1448.233	ng/ml
17)	Aroclor 1232 (5)	7.045	2604693	1251.748	ng/ml
18)	Aroclor 1232 (6)	7.170	2704474	1246.488	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	3056338	672.265	ng/ml
21)	Aroclor 1242 (2)	6.787	5543959	628.392	ng/ml
22)	Aroclor 1242 (3)	6.914	2546382	664.822	ng/ml
23)	Aroclor 1242 (4)	7.000	2450175	741.670	ng/ml
24)	Aroclor 1242 (5)	7.045	2604693	652.163	ng/ml
25)	Aroclor 1242 (6)	7.170	2704474	648.429	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.760	4334363	839.663	ng/ml
28)	Aroclor 1248 (2)	7.000	2450175	385.287	ng/ml
29)	Aroclor 1248 (3)	7.045	2604693	438.813	ng/ml
30)	Aroclor 1248 (4)	7.170	2704474	370.704	ng/ml
31)	Aroclor 1248 (5)	7.536	625243	70.238	ng/ml
32)	Aroclor 1248 (6)	7.693	2287426	280.969	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	1919222	226.488	ng/ml
35)	Aroclor 1254 (2)	7.693	2287426	164.447	ng/ml
36)	Aroclor 1254 (3)	8.004	1330443	87.677	ng/ml
37)	Aroclor 1254 (4)	8.243	909285	83.295	ng/ml
38)	Aroclor 1254 (5)	8.578	6673422	593.264	ng/ml
39)	Aroclor 1254 (6)	8.823	5053812	1432.819	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.140	5324525	505.756	ng/ml
42)	Aroclor 1260 (2)	8.347	6604038	517.458	ng/ml
43)	Aroclor 1260 (3)	8.578	6673422	503.231	ng/ml
44)	Aroclor 1260 (4)	9.061	11386198	538.292	ng/ml
45)	Aroclor 1260 (5)	9.318	6945003	567.647	ng/ml
46)	Aroclor 1260 (6)	9.882	2595261	531.820	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 7:57
Operator : MJB / KAK
Sample : 0B06012-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:15 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

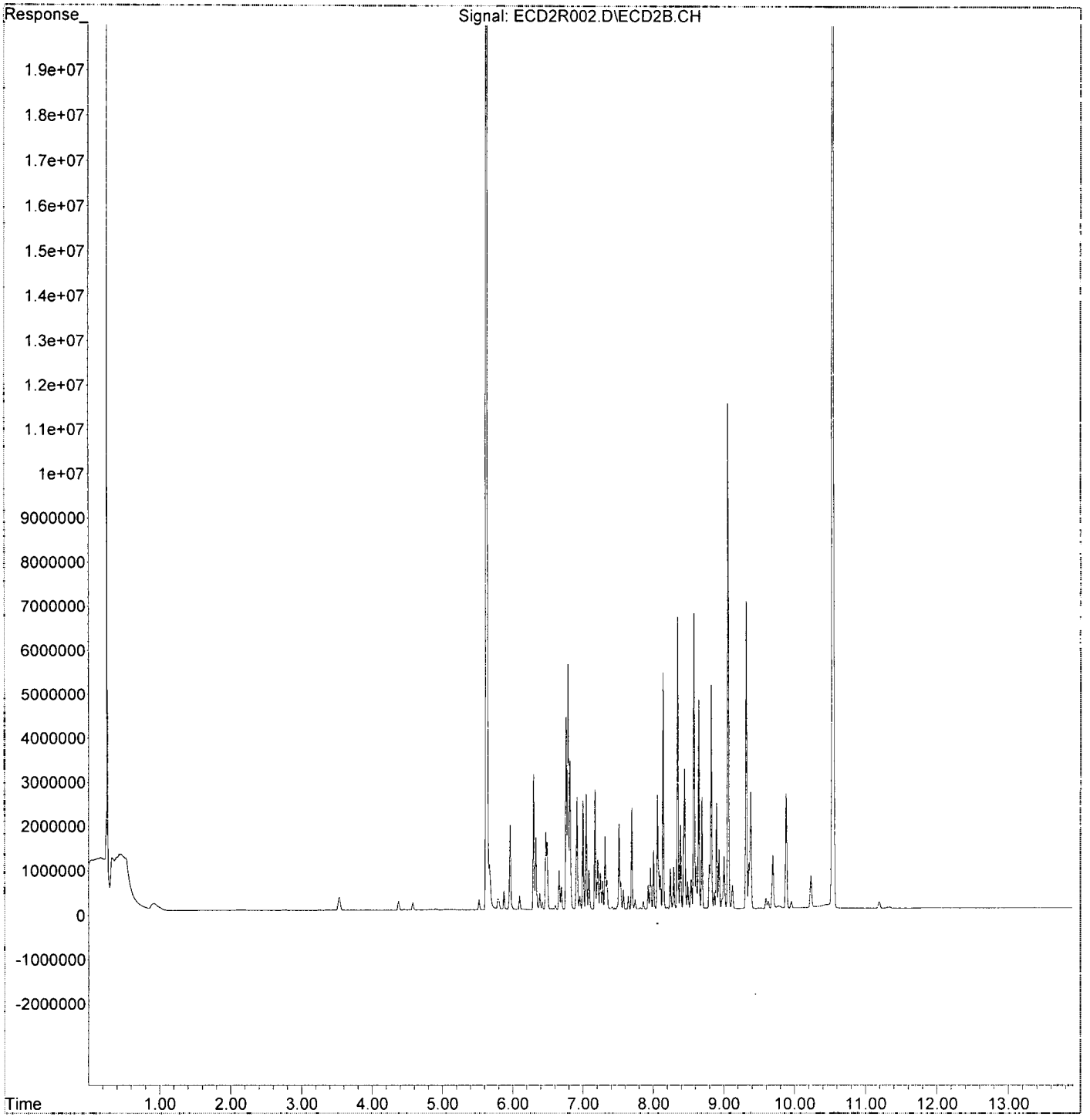
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.347	6604038	624.691	ng/ml
49)	Aroclor 1262 (2)	8.646	4711933	308.423	ng/ml
50)	Aroclor 1262 (3)	8.823	5053812	394.700	ng/ml
51)	Aroclor 1262 (4)	9.061	11386198	413.673	ng/ml
52)	Aroclor 1262 (5)	9.318	6945003	422.972	ng/ml
53)	Aroclor 1262 (6)	9.882	2595261	360.426	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.864	372307	59.740	ng/ml
56)	Aroclor 1268 (2)	9.318	6945003	250.121	ng/ml
57)	Aroclor 1268 (3)	9.382	2638070	117.163	ng/ml
58)	Aroclor 1268 (4)	9.596	238560	12.391	ng/ml
59)	Aroclor 1268 (5)	9.882	2595261	331.740	ng/ml
60)	Aroclor 1268 (6)	10.230	732646	14.475	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 7:57
Operator : MJB / KAK
Sample : 0B06012-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:15 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:14
Operator : MJB / KAK
Sample : 0B06012-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:36 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/7/20 Clean

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.627	20078955	88.992	ng/ml
62)	S DCBP (S)	10.540	11322642	101.801	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	1103	0.178	ng/ml
3)	Aroclor 1016 (2)	6.791	1656	0.145	ng/ml
4)	Aroclor 1016 (3)	6.917	1683	0.314	ng/ml
5)	Aroclor 1016 (4)	7.005	1498	0.303	ng/ml
6)	Aroclor 1016 (5)	7.044	1704	0.307	ng/ml
7)	Aroclor 1016 (6)	7.171	1297	0.227	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.805	13782	7.932	ng/ml
10)	Aroclor 1221 (2)	5.865	8151	4.747	ng/ml
11)	Aroclor 1221 (3)	5.947	31858	5.582	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.947	31858	6.971	ng/ml
14)	Aroclor 1232 (2)	6.297	1103	0.424	ng/ml
15)	Aroclor 1232 (3)	6.791	1656	0.339	ng/ml
16)	Aroclor 1232 (4)	7.005	1498	0.886	ng/ml
17)	Aroclor 1232 (5)	7.044	1704	0.819	ng/ml
18)	Aroclor 1232 (6)	7.171	1297	0.598	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	1103	0.243	ng/ml
21)	Aroclor 1242 (2)	6.791	1656	0.188	ng/ml
22)	Aroclor 1242 (3)	6.917	1683	0.439	ng/ml
23)	Aroclor 1242 (4)	7.005	1498	0.454	ng/ml
24)	Aroclor 1242 (5)	7.044	1704	0.427	ng/ml
25)	Aroclor 1242 (6)	7.171	1297	0.311	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.766	1141	0.221	ng/ml
28)	Aroclor 1248 (2)	7.005	1498	0.236	ng/ml
29)	Aroclor 1248 (3)	7.044	1704	0.287	ng/ml
30)	Aroclor 1248 (4)	7.171	1297	0.178	ng/ml
31)	Aroclor 1248 (5)	7.540	1435	0.161	ng/ml
32)	Aroclor 1248 (6)	7.696	3838	0.471	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.515	926	0.109	ng/ml
35)	Aroclor 1254 (2)	7.696	3838	0.276	ng/ml
36)	Aroclor 1254 (3)	8.008	4945	0.326	ng/ml
37)	Aroclor 1254 (4)	8.243	4172	0.382	ng/ml
38)	Aroclor 1254 (5)	8.579	5719	0.508	ng/ml
39)	Aroclor 1254 (6)	8.821	4701	1.333	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.140	4451	0.423	ng/ml
42)	Aroclor 1260 (2)	8.343	6575	0.515	ng/ml
43)	Aroclor 1260 (3)	8.579	5719	0.431	ng/ml
44)	Aroclor 1260 (4)	9.060	5072	0.240	ng/ml
45)	Aroclor 1260 (5)	9.319	6225	0.509	ng/ml
46)	Aroclor 1260 (6)	9.888	6889	1.412	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:14
Operator : MJB / KAK
Sample : 0B06012-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:36 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

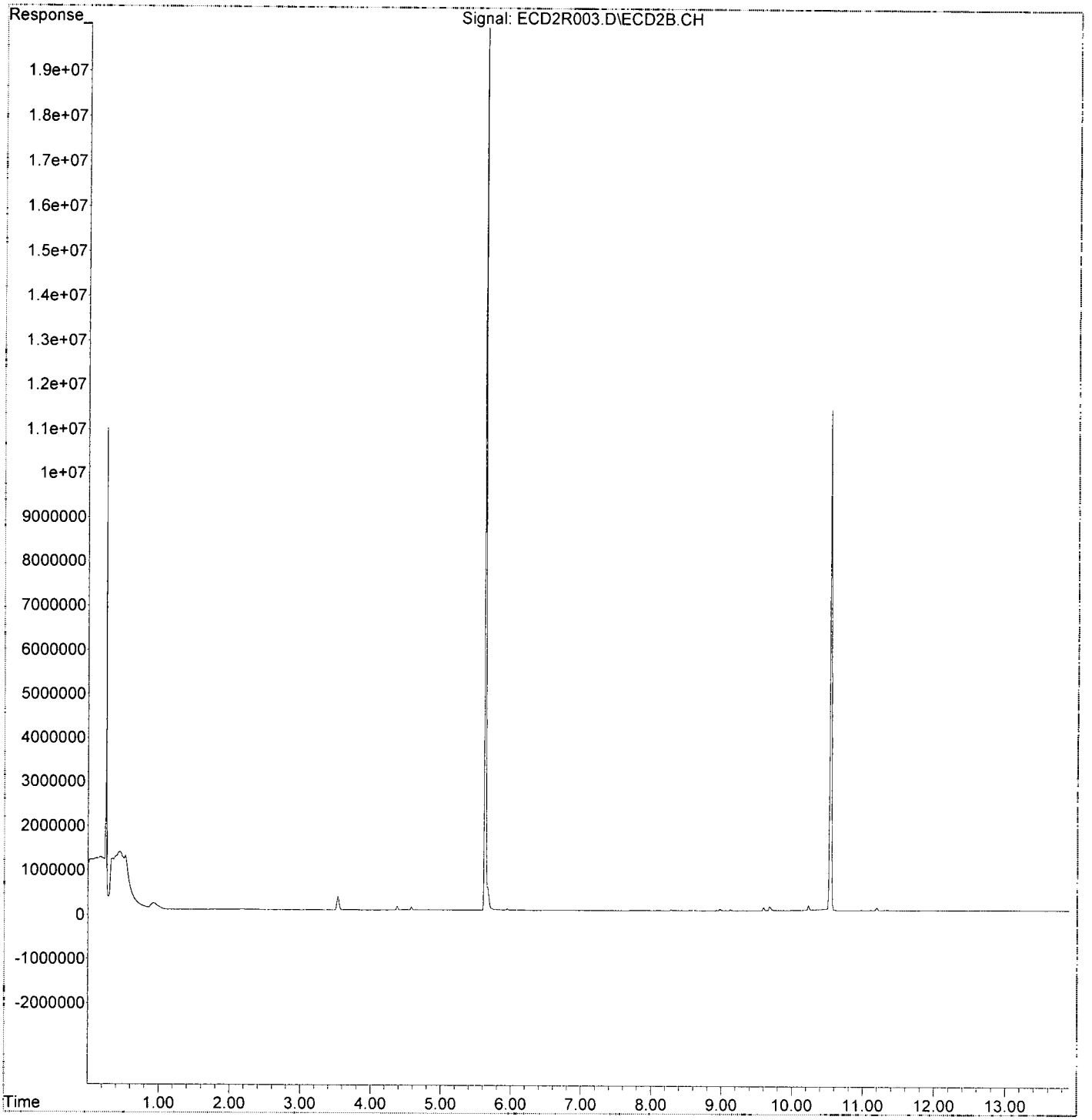
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.343	6575	0.622 ng/ml
49)	Aroclor 1262 (2)	8.653	2996	0.196 ng/ml
50)	Aroclor 1262 (3)	8.821	4701	0.367 ng/ml
51)	Aroclor 1262 (4)	9.060	5072	0.184 ng/ml
52)	Aroclor 1262 (5)	9.319	6225	0.379 ng/ml
53)	Aroclor 1262 (6)	9.888	6889	0.957 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.867	3611	0.579 ng/ml
56)	Aroclor 1268 (2)	9.319	6225	0.224 ng/ml
57)	Aroclor 1268 (3)	9.399	1672	0.074 ng/ml
58)	Aroclor 1268 (4)	9.596	75201	3.906 ng/ml
59)	Aroclor 1268 (5)	9.888	6889	0.881 ng/ml
60)	Aroclor 1268 (6)	10.231	112435	2.221 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:14
Operator : MJB / KAK
Sample : 0B06012-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:36 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:32
Operator : MJB / KAK
Sample : 0020004-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/17/20
Clean

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.627	26582315	117.816	ng/ml
62)	S DCBP (S)	10.539	25238061	226.913	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.298	2593	0.419	ng/ml
3)	Aroclor 1016 (2)	6.788	5016	0.438	ng/ml
4)	Aroclor 1016 (3)	6.916	3831	0.715	ng/ml
5)	Aroclor 1016 (4)	7.001	4913	0.994	ng/ml
6)	Aroclor 1016 (5)	7.046	5387	0.971	ng/ml
7)	Aroclor 1016 (6)	7.171	5106	0.894	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.769	15914	9.159	ng/ml
10)	Aroclor 1221 (2)	5.873	7116	4.145	ng/ml
11)	Aroclor 1221 (3)	5.935	513245	89.932	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.935	513245	112.308	ng/ml
14)	Aroclor 1232 (2)	6.298	2593	0.996	ng/ml
15)	Aroclor 1232 (3)	6.788	5016	1.025	ng/ml
16)	Aroclor 1232 (4)	7.001	4913	2.904	ng/ml
17)	Aroclor 1232 (5)	7.046	5387	2.589	ng/ml
18)	Aroclor 1232 (6)	7.171	5106	2.353	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.298	2593	0.570	ng/ml
21)	Aroclor 1242 (2)	6.788	5016	0.569	ng/ml
22)	Aroclor 1242 (3)	6.916	3831	1.000	ng/ml
23)	Aroclor 1242 (4)	7.001	4913	1.487	ng/ml
24)	Aroclor 1242 (5)	7.046	5387	1.349	ng/ml
25)	Aroclor 1242 (6)	7.171	5106	1.224	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.764	4093	0.793	ng/ml
28)	Aroclor 1248 (2)	7.001	4913	0.773	ng/ml
29)	Aroclor 1248 (3)	7.046	5387	0.908	ng/ml
30)	Aroclor 1248 (4)	7.171	5106	0.700	ng/ml
31)	Aroclor 1248 (5)	7.538	4722	0.530	ng/ml
32)	Aroclor 1248 (6)	7.695	9539	1.172	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.515	5322	0.628	ng/ml
35)	Aroclor 1254 (2)	7.695	9539	0.686	ng/ml
36)	Aroclor 1254 (3)	8.001	13141	0.866	ng/ml
37)	Aroclor 1254 (4)	8.240	10785	0.988	ng/ml
38)	Aroclor 1254 (5)	8.576	14121	1.255	ng/ml
39)	Aroclor 1254 (6)	8.824	8899	2.523	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.140	13787	1.310	ng/ml
42)	Aroclor 1260 (2)	8.344	18950	1.485	ng/ml
43)	Aroclor 1260 (3)	8.576	14121	1.065	ng/ml
44)	Aroclor 1260 (4)	9.060	10165	0.481	ng/ml
45)	Aroclor 1260 (5)	9.320	9574	0.782	ng/ml
46)	Aroclor 1260 (6)	9.883	11186	2.292	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:32
Operator : MJB / KAK
Sample : 0020004-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

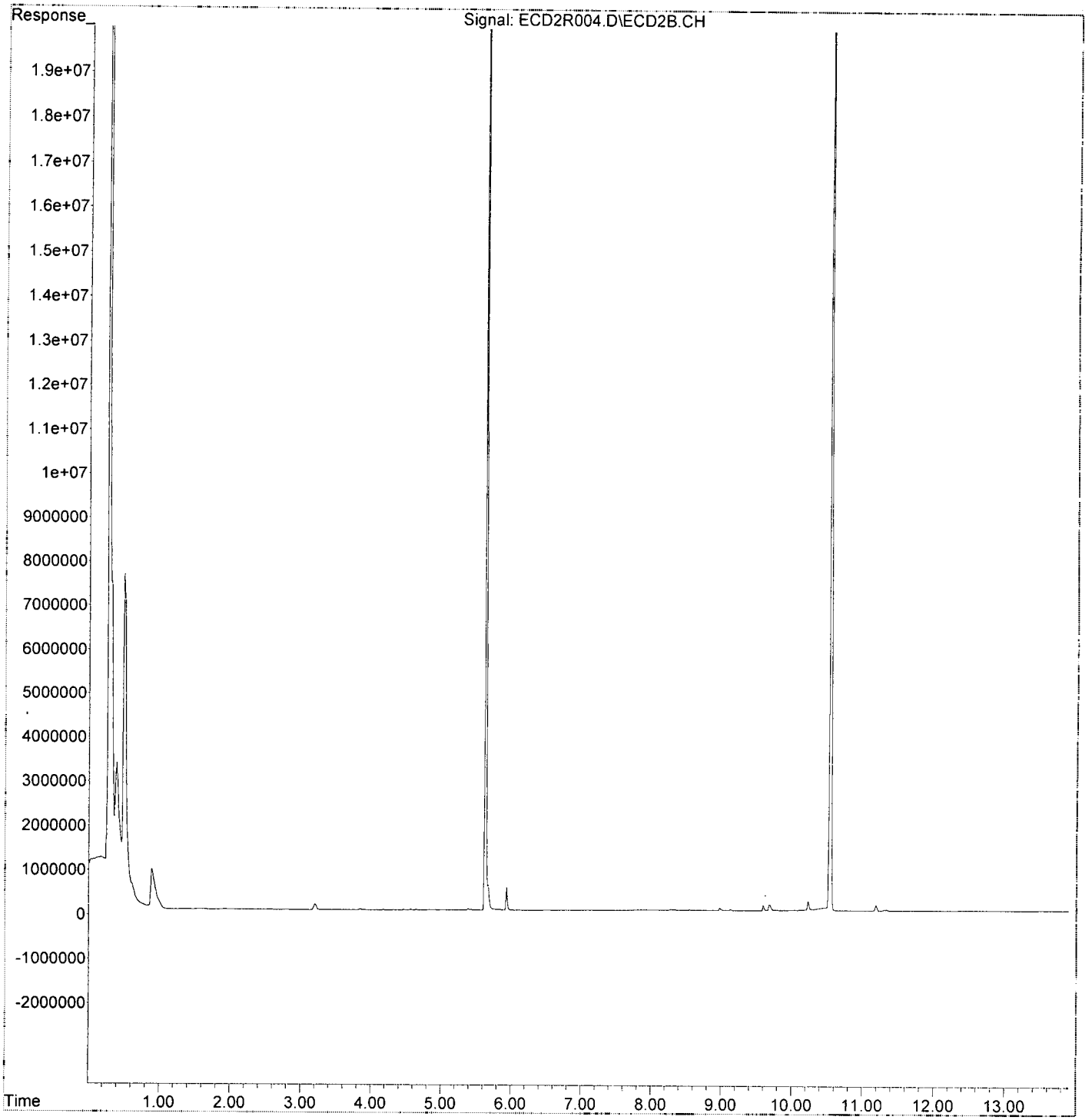
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.344	18950	1.793 ng/ml
49)	Aroclor 1262 (2)	8.644	10227	0.669 ng/ml
50)	Aroclor 1262 (3)	8.824	8899	0.695 ng/ml
51)	Aroclor 1262 (4)	9.060	10165	0.369 ng/ml
52)	Aroclor 1262 (5)	9.320	9574	0.583 ng/ml
53)	Aroclor 1262 (6)	9.883	11186	1.554 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.865	5667	0.909 ng/ml
56)	Aroclor 1268 (2)	9.320	9574	0.345 ng/ml
57)	Aroclor 1268 (3)	9.381	5092	0.226 ng/ml
58)	Aroclor 1268 (4)	9.597	117205	6.088 ng/ml
59)	Aroclor 1268 (5)	9.883	11186	1.430 ng/ml
60)	Aroclor 1268 (6)	10.231	207377	4.097 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:32
Operator : MJB / KAK
Sample : 0020004-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:08:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:50
Operator : MJB / KAK
Sample : 0020004-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

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

2/17/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.626	29504757	130.768	ng/ml
62) S	DCBP (S)	10.537	25273871	227.235	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	4399085	711.598	ng/ml
3)	Aroclor 1016 (2)	6.787	8949715	782.225	ng/ml
4)	Aroclor 1016 (3)	6.914	3142399	586.651	ng/ml
5)	Aroclor 1016 (4)	7.000	4251803	860.557	ng/ml
6)	Aroclor 1016 (5)	7.045	4679757	843.881	ng/ml
7)	Aroclor 1016 (6)	7.170	4218791	738.509	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.802	277582	159.757	ng/ml
10)	Aroclor 1221 (2)	5.875	571470	332.835	ng/ml
11)	Aroclor 1221 (3)	5.962	2537085	444.556	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.962	2537085	555.161	ng/ml
14)	Aroclor 1232 (2)	6.297	4399085	1690.179	ng/ml
15)	Aroclor 1232 (3)	6.787	8949715	1829.474	ng/ml
16)	Aroclor 1232 (4)	7.000	4251803	2513.128	ng/ml
17)	Aroclor 1232 (5)	7.045	4679757	2248.970	ng/ml
18)	Aroclor 1232 (6)	7.170	4218791	1944.435	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	4399085	967.612	ng/ml
21)	Aroclor 1242 (2)	6.787	8949715	1014.425	ng/ml
22)	Aroclor 1242 (3)	6.914	3142399	820.433	ng/ml
23)	Aroclor 1242 (4)	7.000	4251803	1287.024	ng/ml
24)	Aroclor 1242 (5)	7.045	4679757	1171.718	ng/ml
25)	Aroclor 1242 (6)	7.170	4218791	1011.504	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	7183284	1391.562	ng/ml
28)	Aroclor 1248 (2)	7.000	4251803	668.591	ng/ml
29)	Aroclor 1248 (3)	7.045	4679757	788.399	ng/ml
30)	Aroclor 1248 (4)	7.170	4218791	578.272	ng/ml
31)	Aroclor 1248 (5)	7.534	1042066	117.063	ng/ml
32)	Aroclor 1248 (6)	7.693	4084182	501.667	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	3196486	377.218	ng/ml
35)	Aroclor 1254 (2)	7.693	4084182	293.618	ng/ml
36)	Aroclor 1254 (3)	8.003	2031448	133.874	ng/ml
37)	Aroclor 1254 (4)	8.243	1542946	141.341	ng/ml
38)	Aroclor 1254 (5)	8.577	12581716	1118.508	ng/ml
39)	Aroclor 1254 (6)	8.823	9704818	2751.437	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.139	10156007	964.679	ng/ml
42)	Aroclor 1260 (2)	8.345	12995336	1018.247	ng/ml
43)	Aroclor 1260 (3)	8.577	12581716	948.764	ng/ml
44)	Aroclor 1260 (4)	9.060	23368421	1104.761	ng/ml
45)	Aroclor 1260 (5)	9.318	12856857	1050.849	ng/ml
46)	Aroclor 1260 (6)	9.882	5263887	1078.674	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:50
Operator : MJB / KAK
Sample : 0020004-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

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

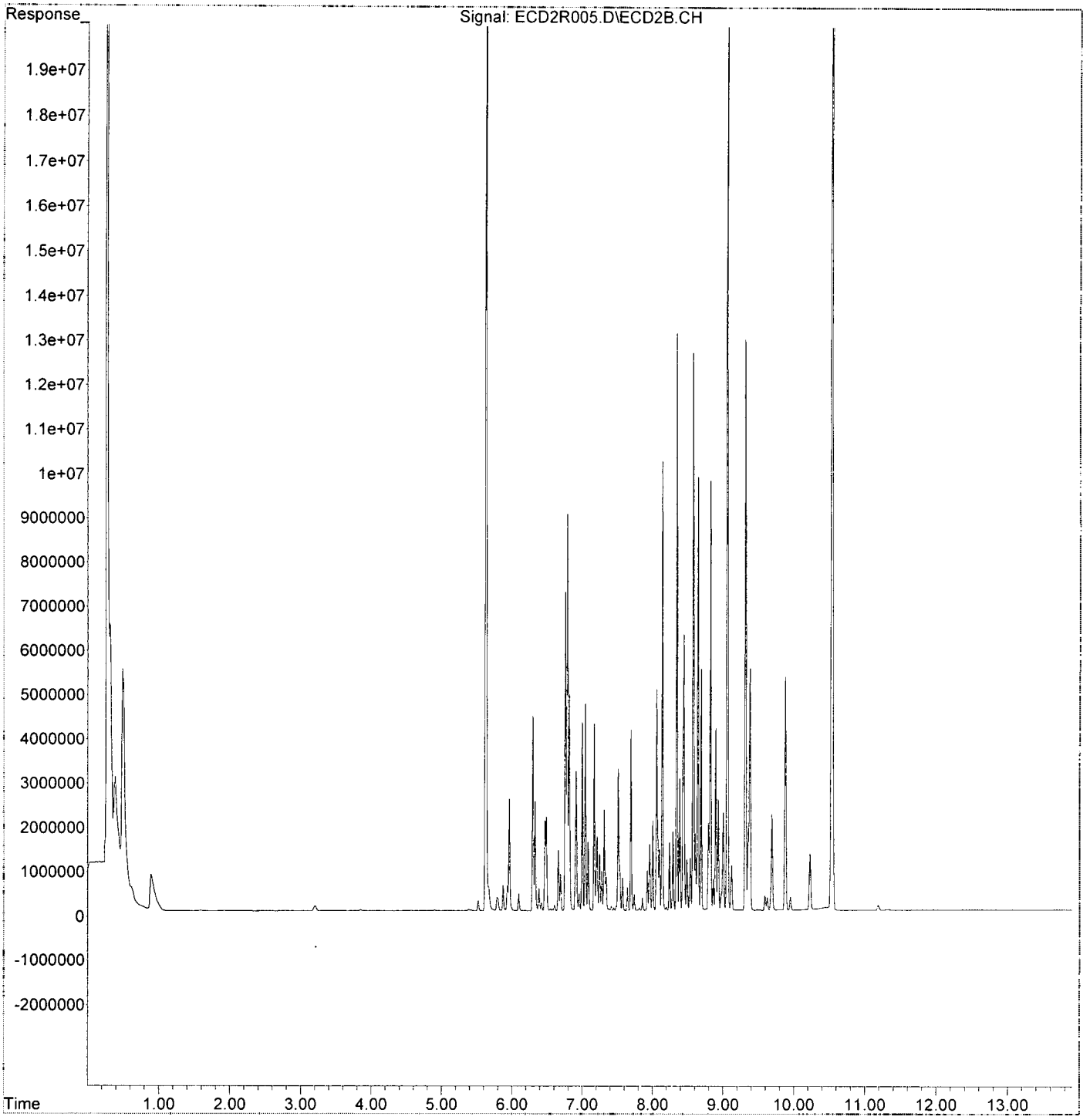
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	12995336	1229.257	ng/ml
49)	Aroclor 1262 (2)	8.645	9779191	640.104	ng/ml
50)	Aroclor 1262 (3)	8.823	9704818	757.940	ng/ml
51)	Aroclor 1262 (4)	9.060	23368421	849.001	ng/ml
52)	Aroclor 1262 (5)	9.318	12856857	783.021	ng/ml
53)	Aroclor 1262 (6)	9.882	5263887	731.041	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	713180	114.436	ng/ml
56)	Aroclor 1268 (2)	9.318	12856857	463.034	ng/ml
57)	Aroclor 1268 (3)	9.382	5465892	242.753	ng/ml
58)	Aroclor 1268 (4)	9.595	326415	16.954	ng/ml
59)	Aroclor 1268 (5)	9.882	5263887	672.858	ng/ml
60)	Aroclor 1268 (6)	10.228	1288981	25.466	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 8:50
Operator : MJB / KAK
Sample : 0020004-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

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



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 12:39
Operator : MJB / KAK
Sample : 0B06012-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:11:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/7/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.626	57236299	253.678	ng/ml
62)	S DCBP (S)	10.539	32469727	291.932	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	3127002	505.825	ng/ml
3)	Aroclor 1016 (2)	6.787	5718801	499.836	ng/ml
4)	Aroclor 1016 (3)	6.913	2567386	479.302	ng/ml
5)	Aroclor 1016 (4)	7.000	2538523	513.792	ng/ml
6)	Aroclor 1016 (5)	7.044	2869995	517.534	ng/ml
7)	Aroclor 1016 (6)	7.169	2905087	508.542	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.802	230492	132.656	ng/ml
10)	Aroclor 1221 (2)	5.874	426408	248.348	ng/ml
11)	Aroclor 1221 (3)	5.962	1881215	329.632	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.962	1881215	411.645	ng/ml
14)	Aroclor 1232 (2)	6.297	3127002	1201.430	ng/ml
15)	Aroclor 1232 (3)	6.787	5718801	1169.020	ng/ml
16)	Aroclor 1232 (4)	7.000	2538523	1500.453	ng/ml
17)	Aroclor 1232 (5)	7.044	2869995	1379.245	ng/ml
18)	Aroclor 1232 (6)	7.169	2905087	1338.950	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	3127002	687.808	ng/ml
21)	Aroclor 1242 (2)	6.787	5718801	648.210	ng/ml
22)	Aroclor 1242 (3)	6.913	2567386	670.306	ng/ml
23)	Aroclor 1242 (4)	7.000	2538523	768.413	ng/ml
24)	Aroclor 1242 (5)	7.044	2869995	718.590	ng/ml
25)	Aroclor 1242 (6)	7.169	2905087	696.528	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	4509923	873.673	ng/ml
28)	Aroclor 1248 (2)	7.000	2538523	399.180	ng/ml
29)	Aroclor 1248 (3)	7.044	2869995	483.508	ng/ml
30)	Aroclor 1248 (4)	7.169	2905087	398.202	ng/ml
31)	Aroclor 1248 (5)	7.534	648183	72.815	ng/ml
32)	Aroclor 1248 (6)	7.693	2336092	286.946	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	1964885	231.876	ng/ml
35)	Aroclor 1254 (2)	7.693	2336092	167.945	ng/ml
36)	Aroclor 1254 (3)	8.003	1402199	92.406	ng/ml
37)	Aroclor 1254 (4)	8.242	942511	86.338	ng/ml
38)	Aroclor 1254 (5)	8.577	7116740	632.674	ng/ml
39)	Aroclor 1254 (6)	8.822	5131552	1454.859	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.139	5673145	538.870	ng/ml
42)	Aroclor 1260 (2)	8.345	7072649	554.176	ng/ml
43)	Aroclor 1260 (3)	8.577	7116740	536.660	ng/ml
44)	Aroclor 1260 (4)	9.060	11789018	557.335	ng/ml
45)	Aroclor 1260 (5)	9.317	7028744	574.491	ng/ml
46)	Aroclor 1260 (6)	9.881	2700588	553.404	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 12:39
Operator : MJB / KAK
Sample : 0B06012-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:11:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

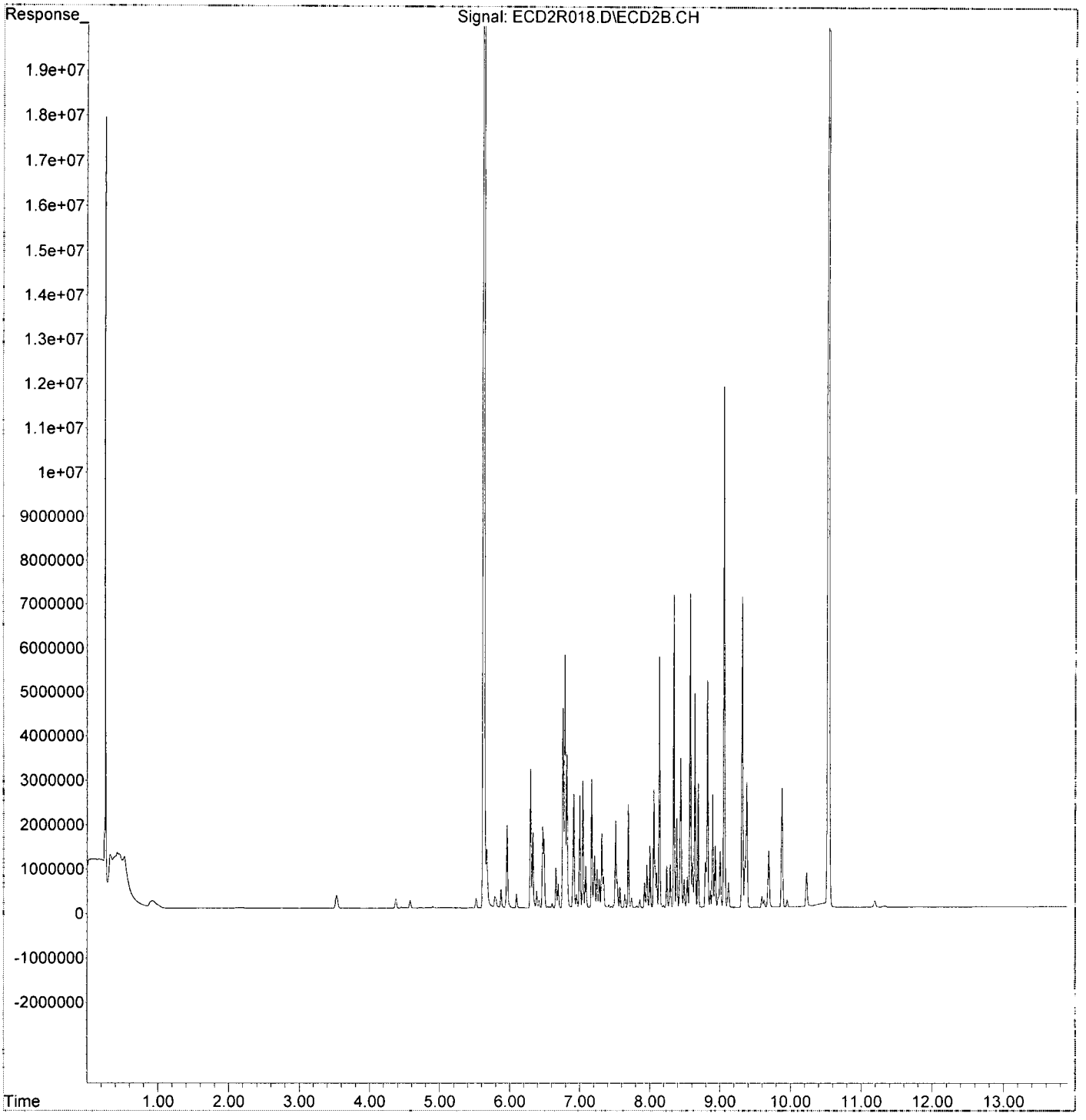
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	7072649	669.017	ng/ml
49)	Aroclor 1262 (2)	8.645	4844192	317.080	ng/ml
50)	Aroclor 1262 (3)	8.822	5131552	400.771	ng/ml
51)	Aroclor 1262 (4)	9.060	11789018	428.308	ng/ml
52)	Aroclor 1262 (5)	9.317	7028744	428.072	ng/ml
53)	Aroclor 1262 (6)	9.881	2700588	375.054	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	397256	63.743	ng/ml
56)	Aroclor 1268 (2)	9.317	7028744	253.137	ng/ml
57)	Aroclor 1268 (3)	9.381	2827966	125.596	ng/ml
58)	Aroclor 1268 (4)	9.596	250124	12.991	ng/ml
59)	Aroclor 1268 (5)	9.881	2700588	345.203	ng/ml
60)	Aroclor 1268 (6)	10.228	790084	15.610	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 12:39
Operator : MJB / KAK
Sample : 0B06012-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:11:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 12:57
Operator : MJB / KAK
Sample : 0B06012-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:12:04 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/7/20
dcm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.625	20556935	91.111	ng/ml
62)	S DCBP (S)	10.538	11912085	107.100	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.304	965	0.156	ng/ml
3)	Aroclor 1016 (2)	6.791	2149	0.188	ng/ml
4)	Aroclor 1016 (3)	6.916	2016	0.376	ng/ml
5)	Aroclor 1016 (4)	7.000	1687	0.341	ng/ml
6)	Aroclor 1016 (5)	7.049	1686	0.304	ng/ml
7)	Aroclor 1016 (6)	7.174	1378	0.241	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.785	17177	9.886	ng/ml
10)	Aroclor 1221 (2)	5.876	7876	4.587	ng/ml
11)	Aroclor 1221 (3)	5.983	5182	0.908	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.945	33819	7.400	ng/ml
14)	Aroclor 1232 (2)	6.304	965	0.371	ng/ml
15)	Aroclor 1232 (3)	6.791	2149	0.439	ng/ml
16)	Aroclor 1232 (4)	7.000	1687	0.997	ng/ml
17)	Aroclor 1232 (5)	7.049	1686	0.810	ng/ml
18)	Aroclor 1232 (6)	7.174	1378	0.635	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.304	965	0.212	ng/ml
21)	Aroclor 1242 (2)	6.791	2149	0.244	ng/ml
22)	Aroclor 1242 (3)	6.916	2016	0.526	ng/ml
23)	Aroclor 1242 (4)	7.000	1687	0.511	ng/ml
24)	Aroclor 1242 (5)	7.049	1686	0.422	ng/ml
25)	Aroclor 1242 (6)	7.174	1378	0.330	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.771	1569	0.304	ng/ml
28)	Aroclor 1248 (2)	7.000	1687	0.265	ng/ml
29)	Aroclor 1248 (3)	7.049	1686	0.284	ng/ml
30)	Aroclor 1248 (4)	7.174	1378	0.189	ng/ml
31)	Aroclor 1248 (5)	7.537	926	0.104	ng/ml
32)	Aroclor 1248 (6)	7.697	3609	0.443	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.516	822	0.097	ng/ml
35)	Aroclor 1254 (2)	7.697	3609	0.259	ng/ml
36)	Aroclor 1254 (3)	8.004	5541	0.365	ng/ml
37)	Aroclor 1254 (4)	8.244	4293	0.393	ng/ml
38)	Aroclor 1254 (5)	8.575	7075	0.629	ng/ml
39)	Aroclor 1254 (6)	8.821	4521	1.282	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.137	5138	0.488	ng/ml
42)	Aroclor 1260 (2)	8.340	9060	0.710	ng/ml
43)	Aroclor 1260 (3)	8.575	7075	0.533	ng/ml
44)	Aroclor 1260 (4)	9.060	5991	0.283	ng/ml
45)	Aroclor 1260 (5)	9.319	5562	0.455	ng/ml
46)	Aroclor 1260 (6)	9.882	6284	1.288	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 12:57
Operator : MJB / KAK
Sample : 0B06012-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:12:04 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

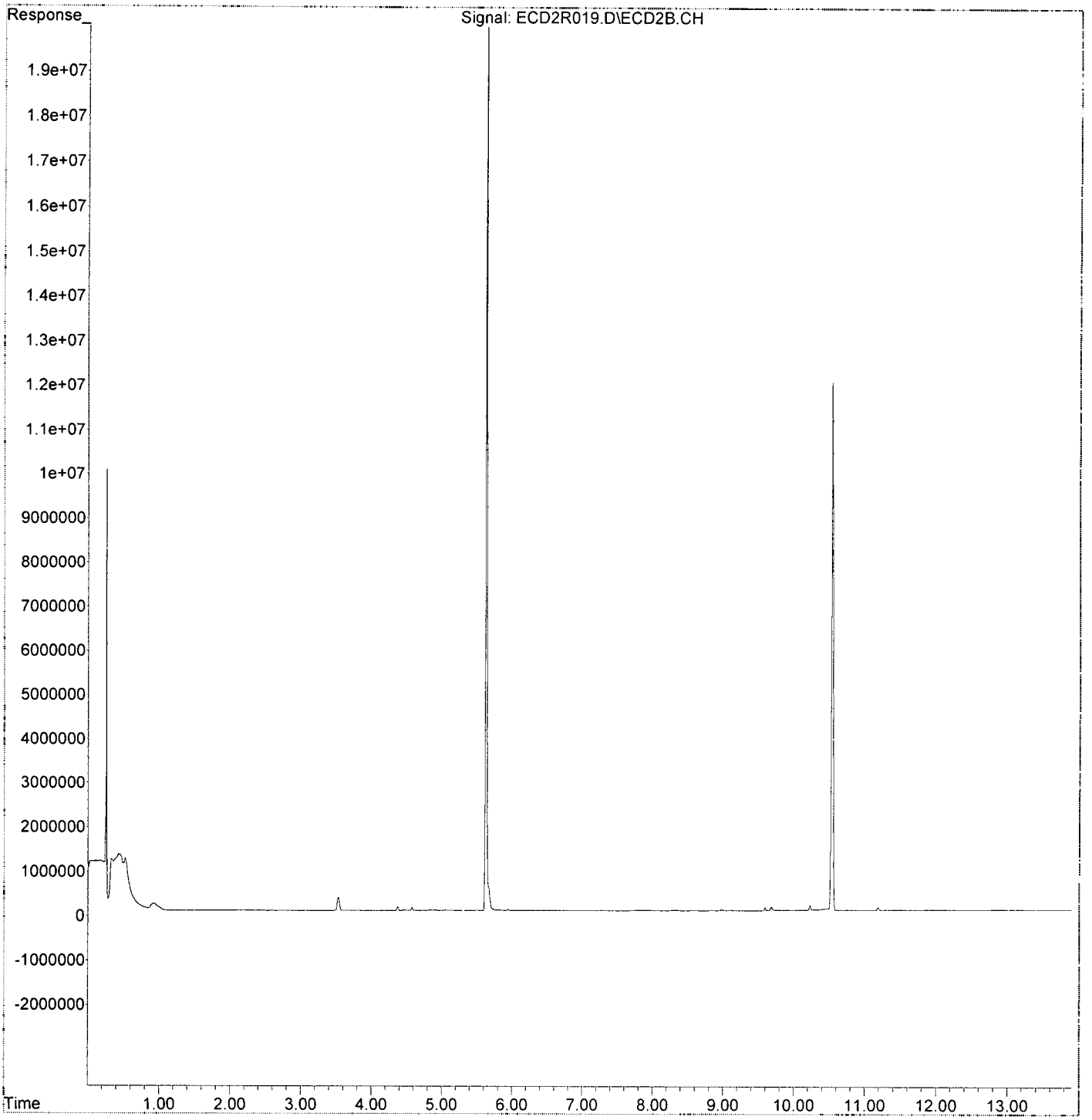
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.340	9060	0.857 ng/ml
49)	Aroclor 1262 (2)	8.646	4598	0.301 ng/ml
50)	Aroclor 1262 (3)	8.821	4521	0.353 ng/ml
51)	Aroclor 1262 (4)	9.060	5991	0.218 ng/ml
52)	Aroclor 1262 (5)	9.319	5562	0.339 ng/ml
53)	Aroclor 1262 (6)	9.882	6284	0.873 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.875	3206	0.514 ng/ml
56)	Aroclor 1268 (2)	9.319	5562	0.200 ng/ml
57)	Aroclor 1268 (3)	9.383	2260	0.100 ng/ml
58)	Aroclor 1268 (4)	9.597	70014	3.636 ng/ml
59)	Aroclor 1268 (5)	9.882	6284	0.803 ng/ml
60)	Aroclor 1268 (6)	10.231	114156	2.255 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 12:57
Operator : MJB / KAK
Sample : 0B06012-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:12:04 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R030.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 16:13
Operator : MJB / KAK
Sample : 0B06012-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:14:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/7/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.626	61269654	271.554	ng/ml
62)	S DCBP (S)	10.538	30890516	277.733	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	3231082	522.661	ng/ml
3)	Aroclor 1016 (2)	6.786	5596966	489.188	ng/ml
4)	Aroclor 1016 (3)	6.914	2586783	482.924	ng/ml
5)	Aroclor 1016 (4)	6.999	2584582	523.114	ng/ml
6)	Aroclor 1016 (5)	7.044	2748798	495.679	ng/ml
7)	Aroclor 1016 (6)	7.169	2864112	501.370	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.800	233931	134.635	ng/ml
10)	Aroclor 1221 (2)	5.874	442234	257.565	ng/ml
11)	Aroclor 1221 (3)	5.962	1985338	347.877	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.962	1985338	434.429	ng/ml
14)	Aroclor 1232 (2)	6.296	3231082	1241.419	ng/ml
15)	Aroclor 1232 (3)	6.786	5596966	1144.115	ng/ml
16)	Aroclor 1232 (4)	6.999	2584582	1527.678	ng/ml
17)	Aroclor 1232 (5)	7.044	2748798	1321.001	ng/ml
18)	Aroclor 1232 (6)	7.169	2864112	1320.065	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	3231082	710.701	ng/ml
21)	Aroclor 1242 (2)	6.786	5596966	634.400	ng/ml
22)	Aroclor 1242 (3)	6.914	2586783	675.370	ng/ml
23)	Aroclor 1242 (4)	6.999	2584582	782.355	ng/ml
24)	Aroclor 1242 (5)	7.044	2748798	688.244	ng/ml
25)	Aroclor 1242 (6)	7.169	2864112	686.704	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.759	4706318	911.719	ng/ml
28)	Aroclor 1248 (2)	6.999	2584582	406.422	ng/ml
29)	Aroclor 1248 (3)	7.044	2748798	463.090	ng/ml
30)	Aroclor 1248 (4)	7.169	2864112	392.586	ng/ml
31)	Aroclor 1248 (5)	7.535	653793	73.445	ng/ml
32)	Aroclor 1248 (6)	7.693	2316582	284.550	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.511	2018158	238.163	ng/ml
35)	Aroclor 1254 (2)	7.693	2316582	166.543	ng/ml
36)	Aroclor 1254 (3)	8.003	1381613	91.049	ng/ml
37)	Aroclor 1254 (4)	8.242	940703	86.173	ng/ml
38)	Aroclor 1254 (5)	8.577	7082678	629.646	ng/ml
39)	Aroclor 1254 (6)	8.822	5049579	1431.618	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.138	5672848	538.841	ng/ml
42)	Aroclor 1260 (2)	8.345	6954960	544.954	ng/ml
43)	Aroclor 1260 (3)	8.577	7082678	534.092	ng/ml
44)	Aroclor 1260 (4)	9.059	12048457	569.600	ng/ml
45)	Aroclor 1260 (5)	9.316	6891519	563.275	ng/ml
46)	Aroclor 1260 (6)	9.879	2651837	543.414	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R030.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 16:13
Operator : MJB / KAK
Sample : 0B06012-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:14:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

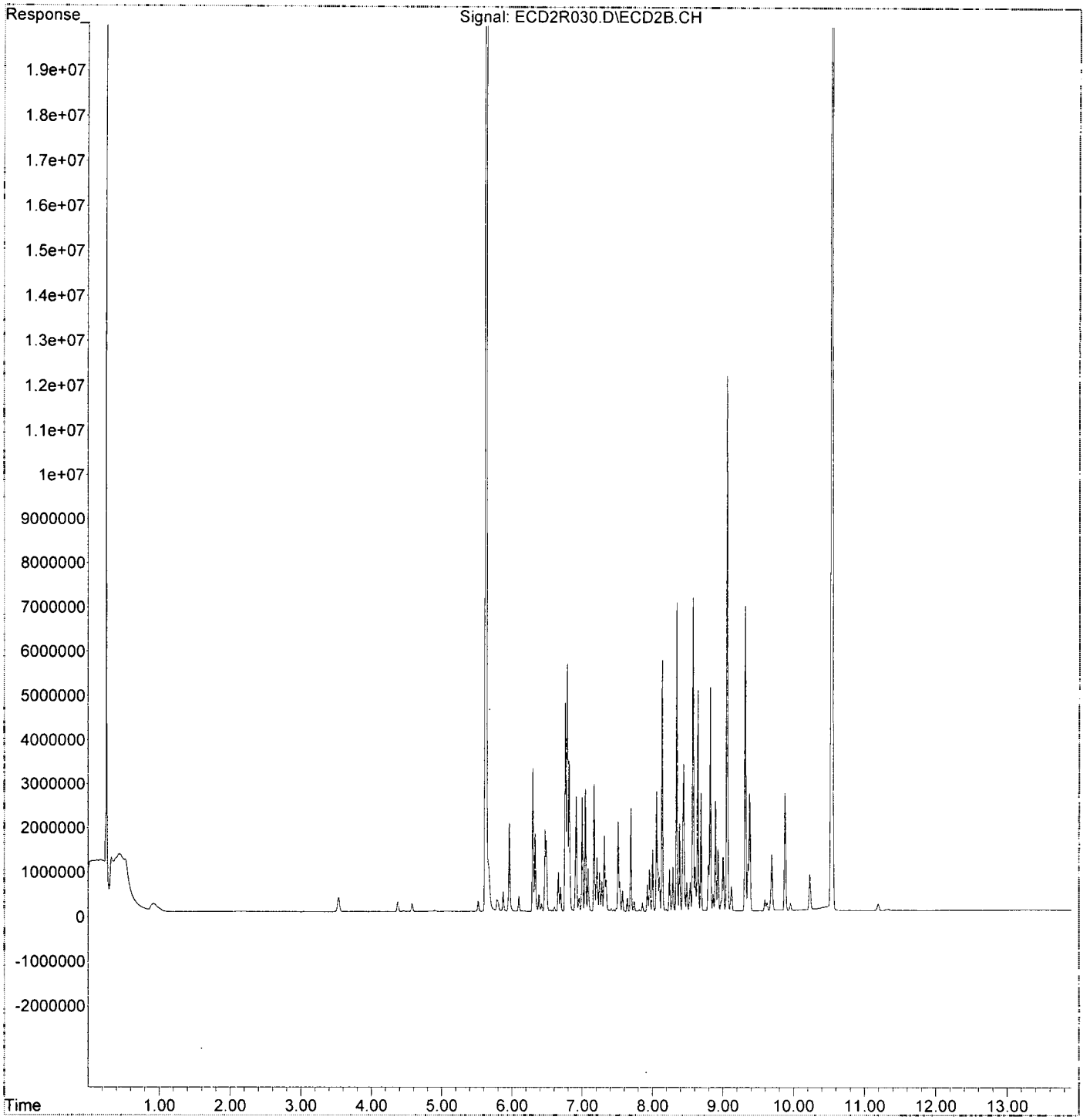
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	6954960	657.885	ng/ml
49)	Aroclor 1262 (2)	8.645	4975909	325.702	ng/ml
50)	Aroclor 1262 (3)	8.822	5049579	394.369	ng/ml
51)	Aroclor 1262 (4)	9.059	12048457	437.734	ng/ml
52)	Aroclor 1262 (5)	9.316	6891519	419.714	ng/ml
53)	Aroclor 1262 (6)	9.879	2651837	368.283	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	382649	61.399	ng/ml
56)	Aroclor 1268 (2)	9.316	6891519	248.195	ng/ml
57)	Aroclor 1268 (3)	9.380	2664038	118.316	ng/ml
58)	Aroclor 1268 (4)	9.595	254851	13.237	ng/ml
59)	Aroclor 1268 (5)	9.879	2651837	338.972	ng/ml
60)	Aroclor 1268 (6)	10.229	819832	16.197	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R030.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 16:13
Operator : MJB / KAK
Sample : 0B06012-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:14:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 16:31
Operator : MJB / KAK
Sample : 0B06012-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:14:22 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/7/20

clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.625	21110553	93.564 ng/ml
62) S	DCBP (S)	10.537	12328377	110.843 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.301	1797	0.291 ng/ml
3)	Aroclor 1016 (2)	6.794	2885	0.252 ng/ml
4)	Aroclor 1016 (3)	6.925	2897	0.541 ng/ml
5)	Aroclor 1016 (4)	7.005	2359	0.477 ng/ml
6)	Aroclor 1016 (5)	7.052	2247	0.405 ng/ml
7)	Aroclor 1016 (6)	7.174	1828	0.320 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.803	15985	9.200 ng/ml
10)	Aroclor 1221 (2)	5.895	6488	3.779 ng/ml
11)	Aroclor 1221 (3)	5.945	34179	5.989 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.945	34179	7.479 ng/ml
14)	Aroclor 1232 (2)	6.301	1797	0.690 ng/ml
15)	Aroclor 1232 (3)	6.794	2885	0.590 ng/ml
16)	Aroclor 1232 (4)	7.000	2464	1.456 ng/ml
17)	Aroclor 1232 (5)	7.043	2627	1.262 ng/ml
18)	Aroclor 1232 (6)	7.174	1828	0.843 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.301	1797	0.395 ng/ml
21)	Aroclor 1242 (2)	6.794	2885	0.327 ng/ml
22)	Aroclor 1242 (3)	6.925	2897	0.756 ng/ml
23)	Aroclor 1242 (4)	7.005	2359	0.714 ng/ml
24)	Aroclor 1242 (5)	7.043	2627	0.658 ng/ml
25)	Aroclor 1242 (6)	7.174	1828	0.438 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.758	1203	0.233 ng/ml
28)	Aroclor 1248 (2)	7.005	2359	0.371 ng/ml
29)	Aroclor 1248 (3)	7.043	2627	0.443 ng/ml
30)	Aroclor 1248 (4)	7.174	1828	0.251 ng/ml
31)	Aroclor 1248 (5)	7.536	1635	0.184 ng/ml
32)	Aroclor 1248 (6)	7.698	2961	0.364 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.513	1647	0.194 ng/ml
35)	Aroclor 1254 (2)	7.698	2961	0.213 ng/ml
36)	Aroclor 1254 (3)	8.006	4614	0.304 ng/ml
37)	Aroclor 1254 (4)	8.242	3235	0.296 ng/ml
38)	Aroclor 1254 (5)	8.575	6459	0.574 ng/ml
39)	Aroclor 1254 (6)	8.820	4536	1.286 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.138	4450	0.423 ng/ml
42)	Aroclor 1260 (2)	8.344	7861	0.616 ng/ml
43)	Aroclor 1260 (3)	8.575	6459	0.487 ng/ml
44)	Aroclor 1260 (4)	9.058	7342	0.347 ng/ml
45)	Aroclor 1260 (5)	9.318	6751	0.552 ng/ml
46)	Aroclor 1260 (6)	9.883	7546	1.546 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 16:31
Operator : MJB / KAK
Sample : 0B06012-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:14:22 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

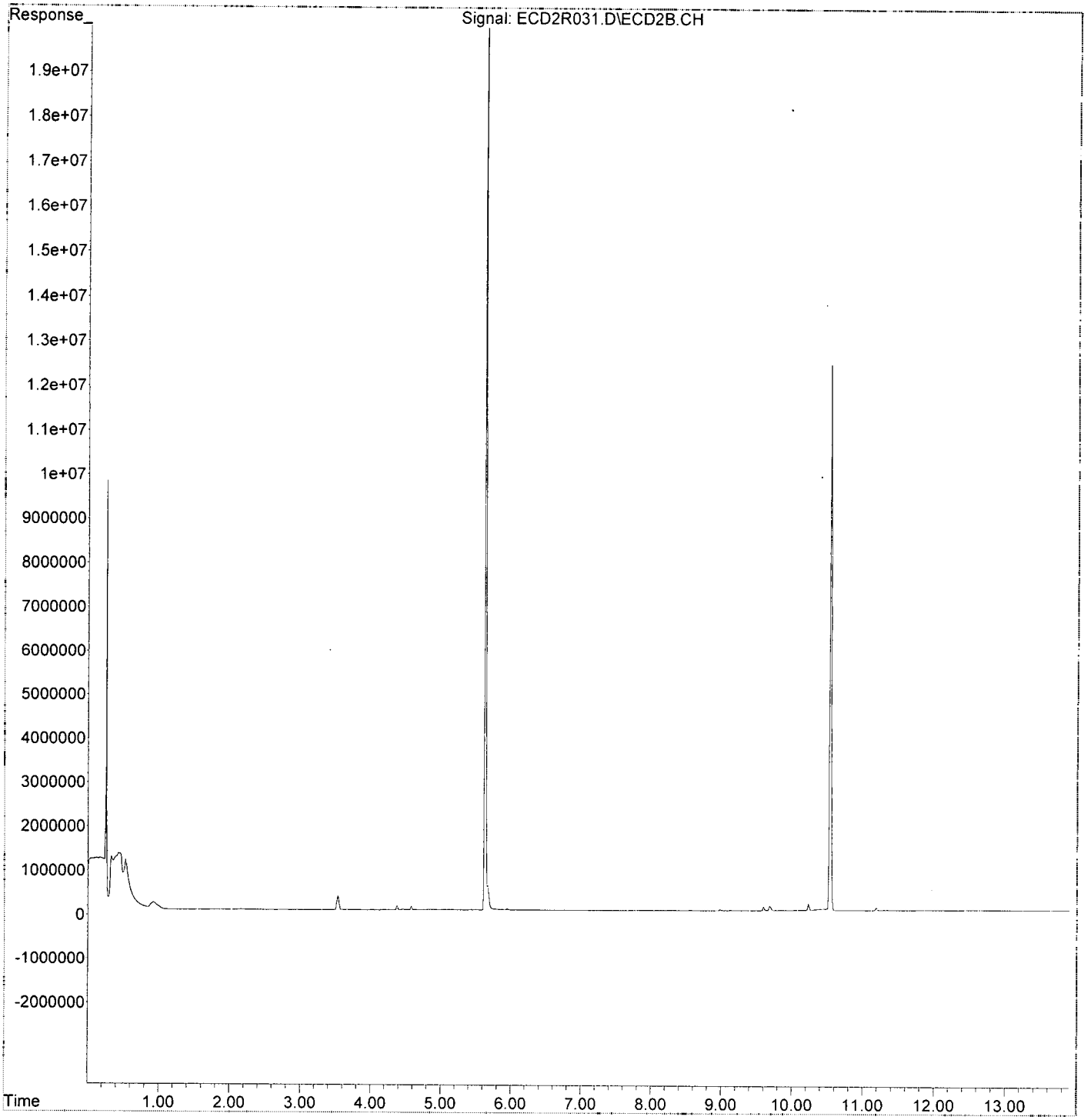
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.344	7861	0.744 ng/ml
49)	Aroclor 1262 (2)	8.645	3933	0.257 ng/ml
50)	Aroclor 1262 (3)	8.820	4536	0.354 ng/ml
51)	Aroclor 1262 (4)	9.058	7342	0.267 ng/ml
52)	Aroclor 1262 (5)	9.318	6751	0.411 ng/ml
53)	Aroclor 1262 (6)	9.883	7546	1.048 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.869	1882	0.302 ng/ml
56)	Aroclor 1268 (2)	9.318	6751	0.243 ng/ml
57)	Aroclor 1268 (3)	9.393	2253	0.100 ng/ml
58)	Aroclor 1268 (4)	9.596	87355	4.537 ng/ml
59)	Aroclor 1268 (5)	9.883	7546	0.965 ng/ml
60)	Aroclor 1268 (6)	10.230	147002	2.904 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B06012\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 06 Feb 2020 16:31
Operator : MJB / KAK
Sample : 0B06012-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 09:14:22 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 0020348
Sequence 0B12052 (A0A1011-04RE1,05RE1,06RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020348 (Sediment)

Prep Method: EPA 3546

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

Standards/Reagents

Reagent(s)

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

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B033	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: 2/17/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020348 (Sediment)

Prep Method: EPA 3546

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

Standards/Reagents

Reagent(s)

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

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B033	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

(P) = Partial Dryout

(S) = Staining on turbovap

Method 3546 digestion time and temperture achieved.
Initial: GWL

Witness:_____

GWL 2/12/20
Prepared By: Date

Reviewed By: 2/17/20
Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020348 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020348-BLK1		QC	02/12/20 07:03	~~30~~ 31	2				100					
	0020348-BS1		QC	02/12/20 07:03	30	2	A20B033		100	100					
	A0A1011-04RE1	A	8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	~~30~~ 30.29	2				100	PDI-062SC-A-08-09-191023	Added 2/11/2020 By KAK Sand ★			
	0020348-DUP1		QC	02/12/20 07:03	~~30~~ 30.26	2		A0A1011-04RE1		100		Sand ★			
	A0A1011-05RE1	A	8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	~~30~~ 30.61	2				100	PDI-062SC-A-09-10-191023	Added 2/11/2020 By KAK Sand			
	A0A1011-06RE1	A	8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	~~30~~ 30.25	2				100	PDI-062SC-A-10-11-191023	Added 2/11/2020 By KAK Sand			
	0020348-MS1		QC	02/12/20 07:03	~~30~~ 30.23	2	A20B033	A0A1011-06RE1	100	100		Sand			

Standards/Reagents

~~2/13/20~~ JAG 2/13/20

Reagent(s)

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

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B033	07/03/20	8082 PCB Matrix Spike

JAG

Surrogate(s)

Std ID	Exp. Date	Description
A20B060	07/17/20	8082 PCB Surrogate Spike

JAG

★ Stained TurboVap Before and After Hexane Exchange.

Method 3546 digestion time and temperture achieved.
Initial: JAG

Witness: CAH 02/12/20

JAG 2/12/20
Prepared By: Date

~~2/13/20~~
Reviewed By: 2/13/20
Date

CAH 2/12/20

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0B12052**	Instrument:	**DUALECD2R**
Date:	**02/12/20 15:46**	Calibration:	**A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B12052-CCV1	Sediment	QC	QC				A20A394
2	0B12052-CCB1	Sediment	QC	QC				A20A395
3	0020348-BLK1	Sediment	QC	QC		0020348		
4	0020348-BS1	Sediment	QC	QC		0020348		
5	A0A1011-04RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020348		
6	0B12052-IBL1	Sediment	QC	QC				
7	0020348-DUP1	Sediment	QC	QC		0020348		
8	0B12052-IBL2	Sediment	QC	QC				
9	A0A1011-05RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020348		
10	0B12052-IBL3	Sediment	QC	QC				
11	A0A1011-06RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020348		
12	0B12052-IBL4	Sediment	QC	QC				
13	0020348-MS1	Sediment	QC	QC		0020348		
14	0B12052-IBL5	Sediment	QC	QC				
15	0B12052-CCV2	Sediment	QC	QC				A20A394
16	0B12052-CCB2	Sediment	QC	QC				A20A395

Comments:

Data Entered By: 2/13/20

Data Reviewed By: 2/13/20

TOTAL AROCLOR AVERAGE RESULTS

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

0B12052-CCV1

Aroclor 1016

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

Aroclor 1260

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

0020348-BS1

Aroclor 1016

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

Aroclor 1260

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

TOTAL AROCLOR AVERAGE RESULTS

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

0020348-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	812.68
1016 (2)	827.09
1016 (3)	729.37
1016 (4)	914.11
1016 (5)	923.77
1016 (6)	783.49
Average:	**831.75**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,024.76
1260 (2)	1,128.77
1260 (3)	1,022.51
1260 (4)	1,168.35
1260 (5)	1,085.27
1260 (6)	1,116.05
Average:	**1,090.95**

0B12052-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	507.37
1016 (2)	465.23
1016 (3)	448.23
1016 (4)	537.92
1016 (5)	525.92
1016 (6)	502.57
Average:	**497.87**

Aroclor 1260

Peak	Initial Res
1260 (1)	544.26
1260 (2)	547.62
1260 (3)	552.80
1260 (4)	574.27
1260 (5)	584.73
1260 (6)	562.68
Average:	**561.06**

Quantitation Report (Not Reviewed)

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

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

2/13/20

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

Quantitation Report (Not Reviewed)

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

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

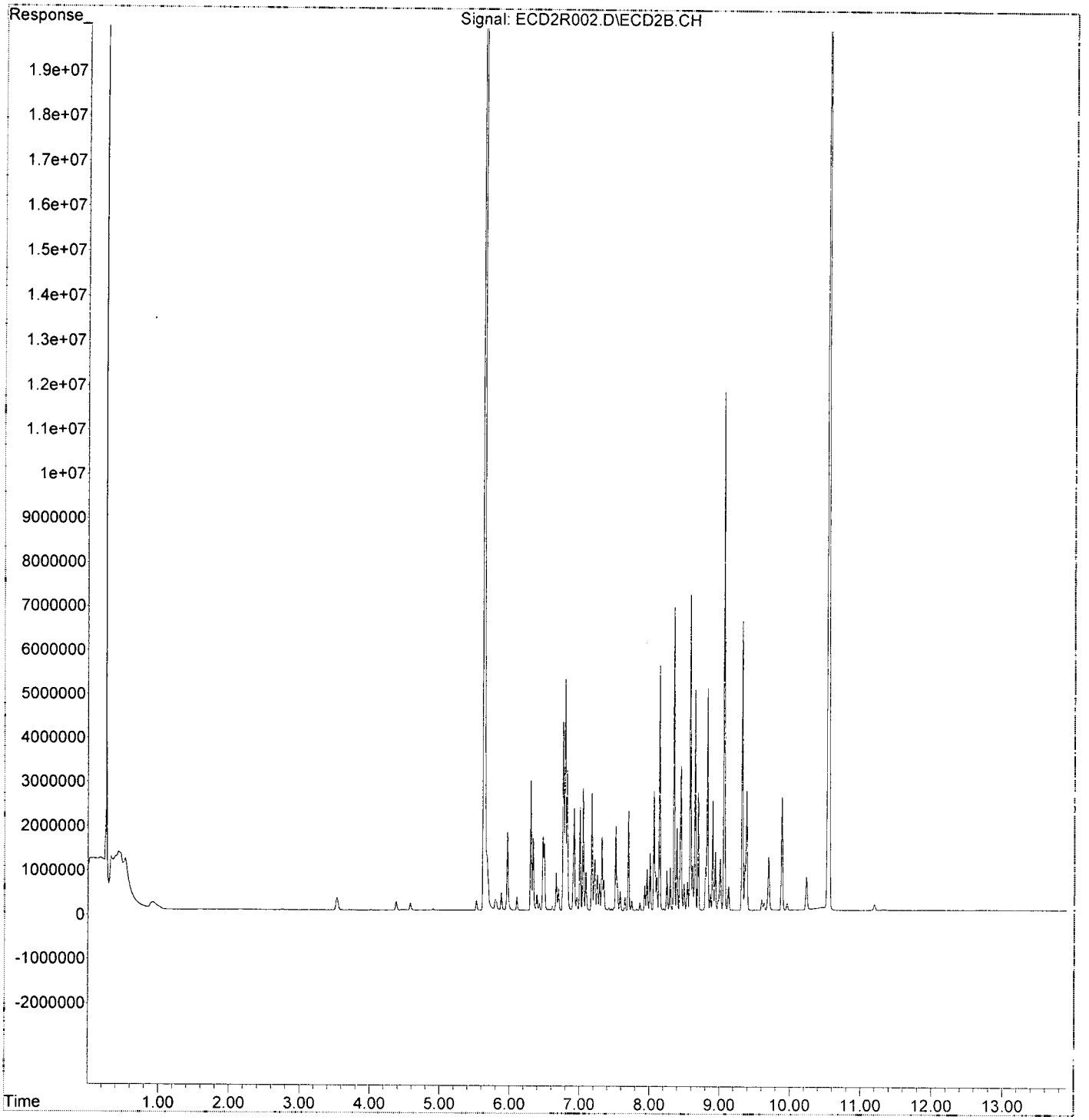
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.346	6868200	649.678	ng/ml
49)	Aroclor 1262 (2)	8.646	5003980	327.539	ng/ml
50)	Aroclor 1262 (3)	8.824	5035023	393.232	ng/ml
51)	Aroclor 1262 (4)	9.060	11728951	426.126	ng/ml
52)	Aroclor 1262 (5)	9.319	6559092	399.468	ng/ml
53)	Aroclor 1262 (6)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

2/13/20
Clean

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

Quantitation Report (Not Reviewed)

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

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

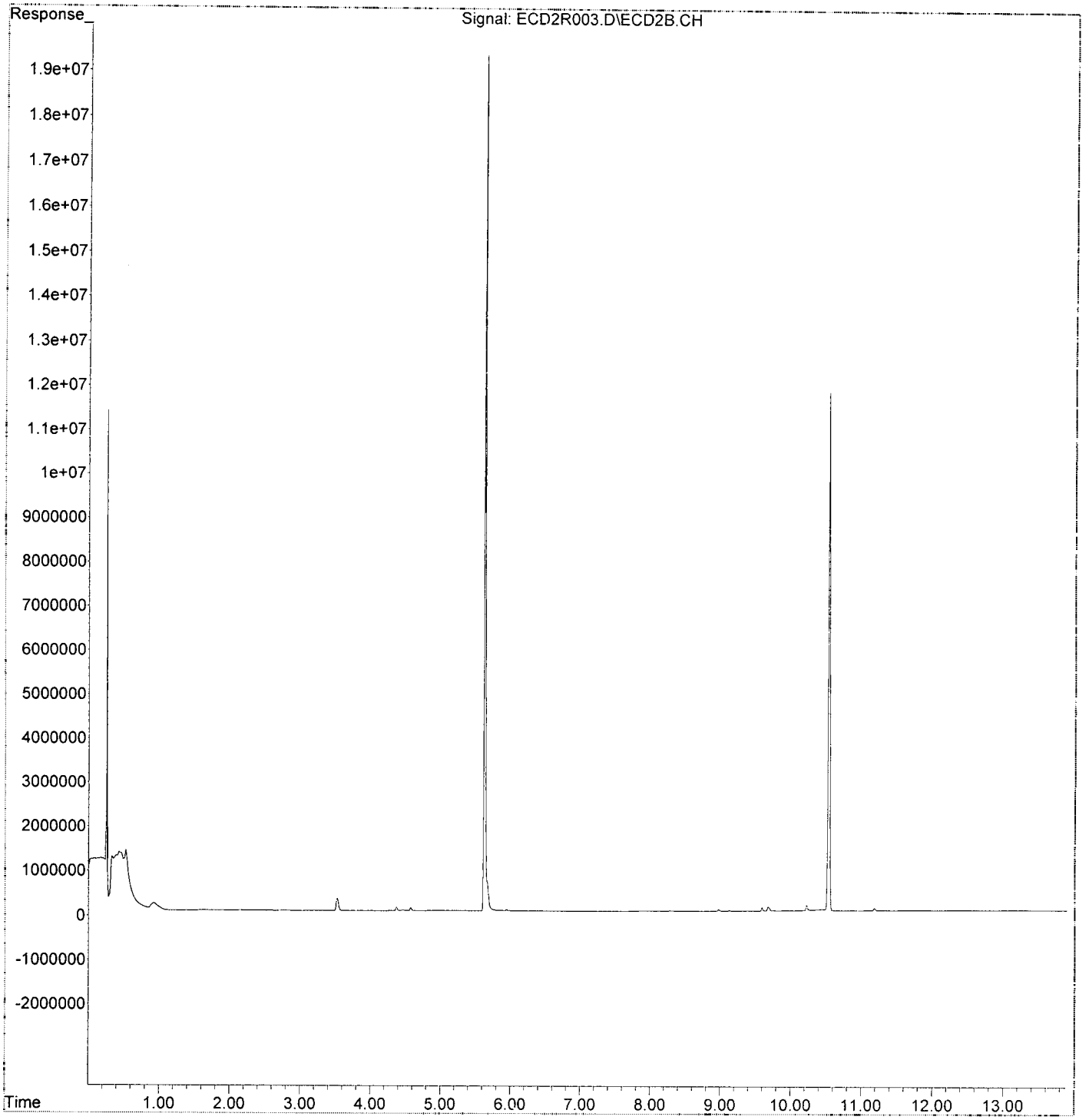
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.338	7276	0.688 ng/ml
49)	Aroclor 1262 (2)	8.642	3445	0.226 ng/ml
50)	Aroclor 1262 (3)	8.828	3423	0.267 ng/ml
51)	Aroclor 1262 (4)	9.059	4604	0.167 ng/ml
52)	Aroclor 1262 (5)	9.320	5282	0.322 ng/ml
53)	Aroclor 1262 (6)	9.883	6836	0.949 ng/ml
54)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

2/13/20 Clean

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

Quantitation Report (Not Reviewed)

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

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

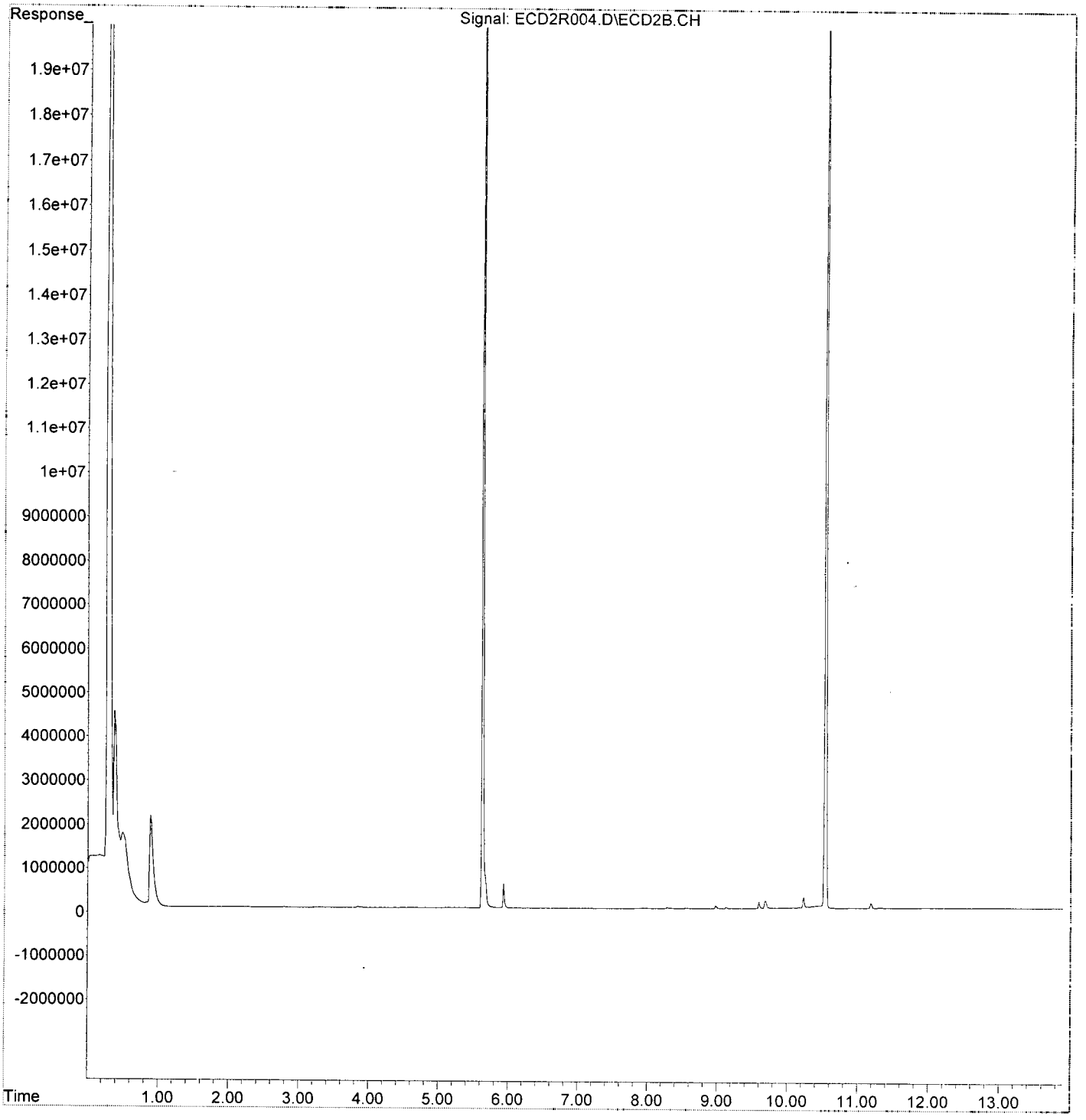
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.315	15243	1.442 ng/ml
49)	Aroclor 1262 (2)	8.644	4087	0.268 ng/ml
50)	Aroclor 1262 (3)	8.821	3787	0.296 ng/ml
51)	Aroclor 1262 (4)	9.060	4730	0.172 ng/ml
52)	Aroclor 1262 (5)	9.321	7341	0.447 ng/ml
53)	Aroclor 1262 (6)	9.888	9118	1.266 ng/ml
54)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

2/13/20

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

Quantitation Report (Not Reviewed)

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

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

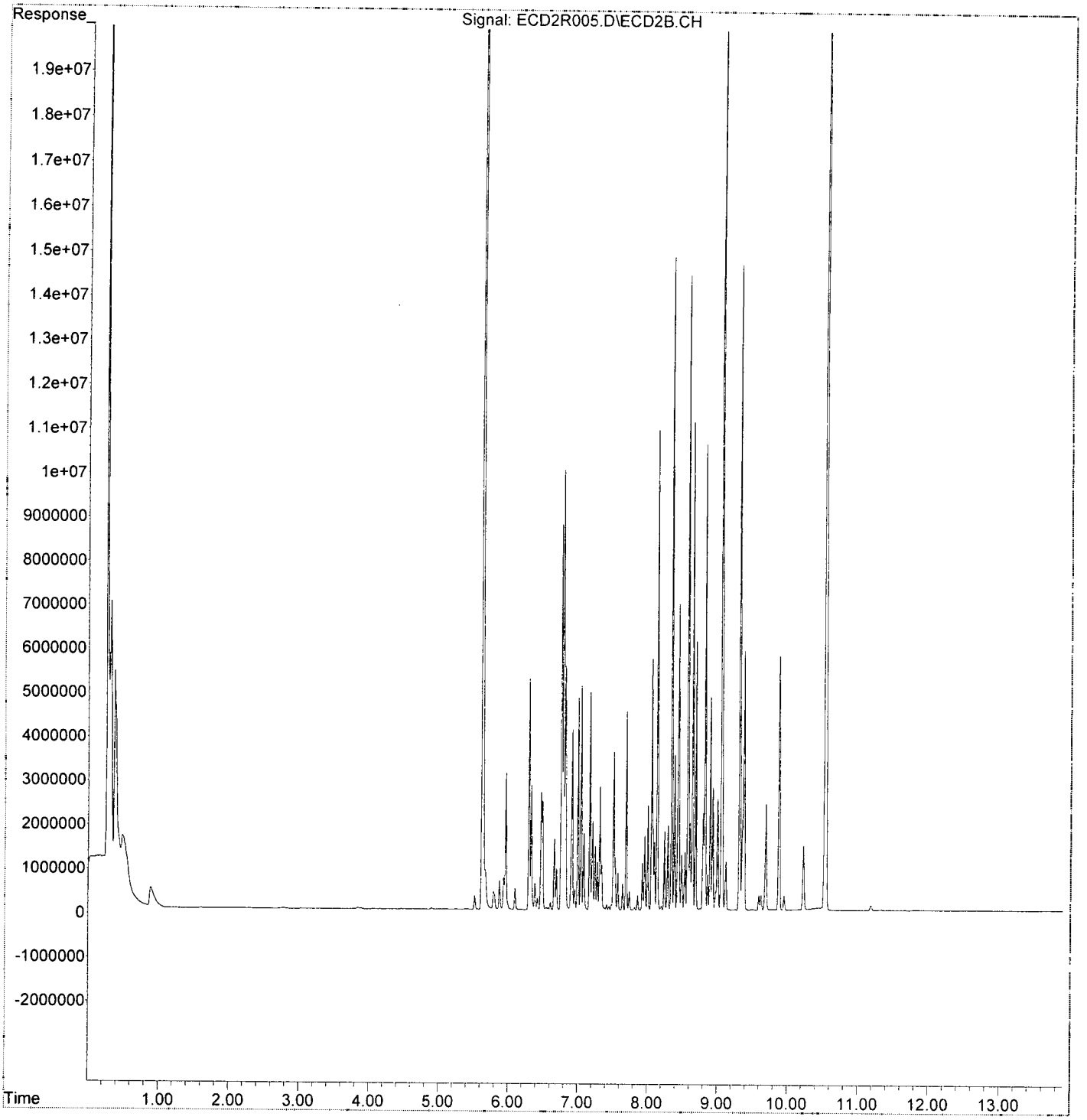
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.346	14790979	1399.111	ng/ml
49)	Aroclor 1262 (2)	8.645	11042820	722.816	ng/ml
50)	Aroclor 1262 (3)	8.823	10571543	825.631	ng/ml
51)	Aroclor 1262 (4)	9.061	25964952	943.336	ng/ml
52)	Aroclor 1262 (5)	9.318	14614440	890.063	ng/ml
53)	Aroclor 1262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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 17:17
Operator : MJB / KAK
Sample : A0A1011-04RE1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:17:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/13/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.625	32160507	142.539 ng/ml
62) S	DCBP (S)	10.540	16722645	150.351 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.296	2957	0.478 ng/ml
3)	Aroclor 1016 (2)	6.794	4329	0.378 ng/ml
4)	Aroclor 1016 (3)	6.917	2604	0.486 ng/ml
5)	Aroclor 1016 (4)	7.015	37958	7.683 ng/ml
6)	Aroclor 1016 (5)	7.045	123565	22.282 ng/ml
7)	Aroclor 1016 (6)	7.163	5589	0.978 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.808	5268	3.032 ng/ml
10)	Aroclor 1221 (2)	5.879	2037	1.186 ng/ml
11)	Aroclor 1221 (3)	5.932	506694	88.784 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.932	506694	110.874 ng/ml
14)	Aroclor 1232 (2)	6.296	2957	1.136 ng/ml
15)	Aroclor 1232 (3)	6.794	4329	0.885 ng/ml
16)	Aroclor 1232 (4)	7.015	37958	22.436 ng/ml
17)	Aroclor 1232 (5)	7.045	123565	59.382 ng/ml
18)	Aroclor 1232 (6)	7.163	5589	2.576 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.296	2957	0.650 ng/ml
21)	Aroclor 1242 (2)	6.794	4329	0.491 ng/ml
22)	Aroclor 1242 (3)	6.917	2604	0.680 ng/ml
23)	Aroclor 1242 (4)	7.015	37958	11.490 ng/ml
24)	Aroclor 1242 (5)	7.045	123565	30.938 ng/ml
25)	Aroclor 1242 (6)	7.163	5589	1.340 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.769	3594	0.696 ng/ml
28)	Aroclor 1248 (2)	7.015	37958	5.969 ng/ml
29)	Aroclor 1248 (3)	7.045	123565	20.817 ng/ml
30)	Aroclor 1248 (4)	7.163	5589	0.766 ng/ml
31)	Aroclor 1248 (5)	7.524	15180	1.705 ng/ml
32)	Aroclor 1248 (6)	7.695	7494	0.921 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.524	15180	1.791 ng/ml
35)	Aroclor 1254 (2)	7.695	7494	0.539 ng/ml
36)	Aroclor 1254 (3)	8.004	9477	0.625 ng/ml
37)	Aroclor 1254 (4)	8.261	6965	0.638 ng/ml
38)	Aroclor 1254 (5)	8.578	4444	0.395 ng/ml
39)	Aroclor 1254 (6)	8.811	9010	2.554 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.148	8450	0.803 ng/ml
42)	Aroclor 1260 (2)	8.349	7680	0.602 ng/ml
43)	Aroclor 1260 (3)	8.578	4444	0.335 ng/ml
44)	Aroclor 1260 (4)	9.060	8938	0.423 ng/ml
45)	Aroclor 1260 (5)	9.318	8665	0.708 ng/ml
46)	Aroclor 1260 (6)	9.889	16082	3.295 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 17:17
Operator : MJB / KAK
Sample : A0A1011-04RE1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:17:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

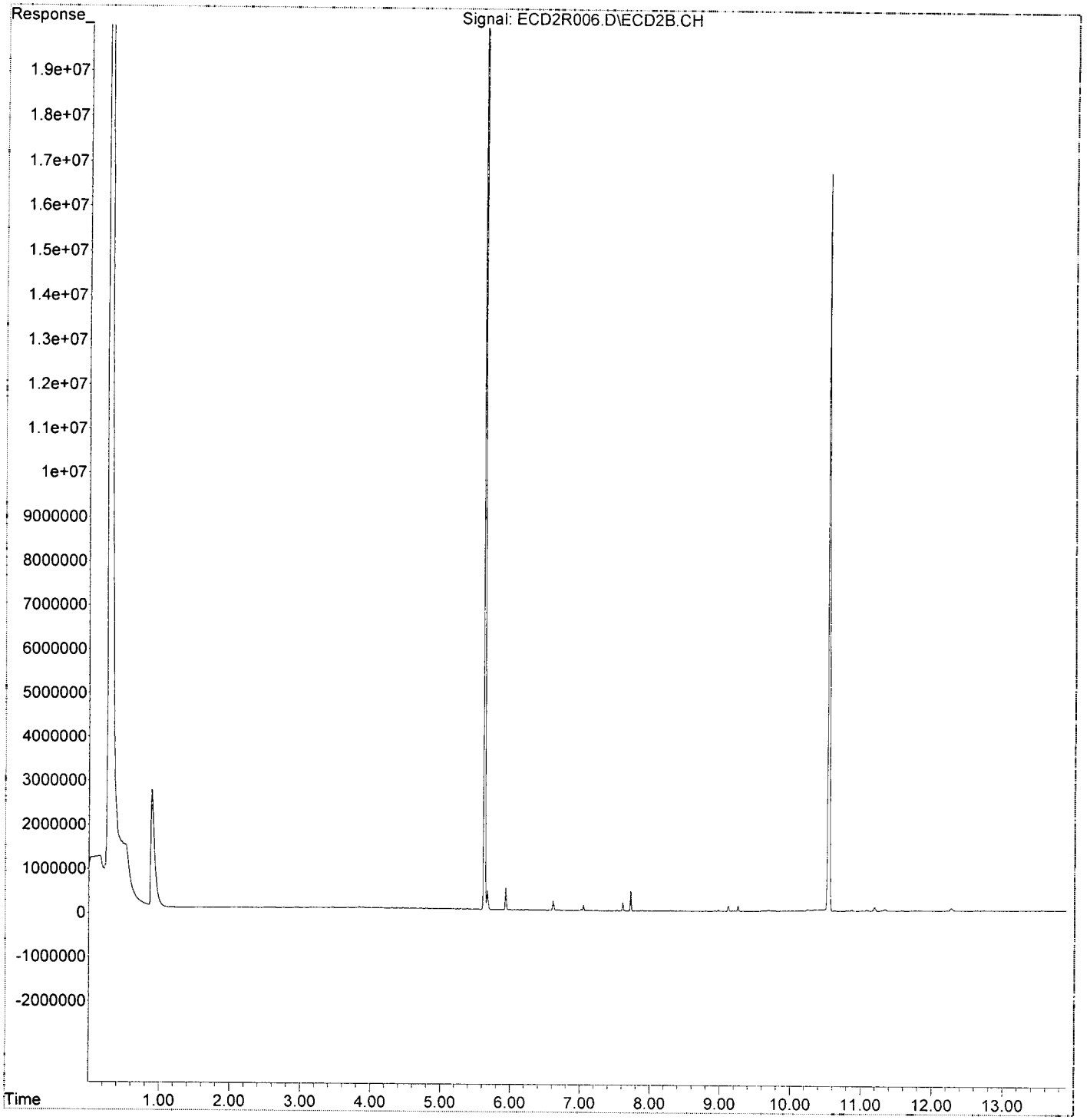
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.349	7680	0.726 ng/ml
49)	Aroclor 1262 (2)	8.647	5556	0.364 ng/ml
50)	Aroclor 1262 (3)	8.843	8197	0.640 ng/ml
51)	Aroclor 1262 (4)	9.060	8938	0.325 ng/ml
52)	Aroclor 1262 (5)	9.318	8665	0.528 ng/ml
53)	Aroclor 1262 (6)	9.889	16082	2.233 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.871	6545	1.050 ng/ml
56)	Aroclor 1268 (2)	9.318	8665	0.312 ng/ml
57)	Aroclor 1268 (3)	9.388	10381	0.461 ng/ml
58)	Aroclor 1268 (4)	9.597	29636	1.539 ng/ml
59)	Aroclor 1268 (5)	9.889	16082	2.056 ng/ml
60)	Aroclor 1268 (6)	10.238	48004	0.948 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 17:17
Operator : MJB / KAK
Sample : A0A1011-04RE1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:17:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 17:52
Operator : MJB / KAK
Sample : 0020348-DUP1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:05 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.626	31309699	138.768	ng/ml
62)	S DCBP (S)	10.541	16248548	146.089	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	3860	0.624	ng/ml
3)	Aroclor 1016 (2)	6.787	5058	0.442	ng/ml
4)	Aroclor 1016 (3)	6.915	2703	0.505	ng/ml
5)	Aroclor 1016 (4)	7.015	35352	7.155	ng/ml
6)	Aroclor 1016 (5)	7.046	32729	5.902	ng/ml
7)	Aroclor 1016 (6)	7.165	6623	1.159	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.809	5926	3.411	ng/ml
10)	Aroclor 1221 (2)	5.879	2938	1.711	ng/ml
11)	Aroclor 1221 (3)	5.932	510796	89.503	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	510796	111.772	ng/ml
14)	Aroclor 1232 (2)	6.297	3860	1.483	ng/ml
15)	Aroclor 1232 (3)	6.787	5058	1.034	ng/ml
16)	Aroclor 1232 (4)	7.015	35352	20.896	ng/ml
17)	Aroclor 1232 (5)	7.046	32729	15.729	ng/ml
18)	Aroclor 1232 (6)	7.165	6623	3.053	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	3860	0.849	ng/ml
21)	Aroclor 1242 (2)	6.787	5058	0.573	ng/ml
22)	Aroclor 1242 (3)	6.915	2703	0.706	ng/ml
23)	Aroclor 1242 (4)	7.015	35352	10.701	ng/ml
24)	Aroclor 1242 (5)	7.046	32729	8.195	ng/ml
25)	Aroclor 1242 (6)	7.165	6623	1.588	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.758	5620	1.089	ng/ml
28)	Aroclor 1248 (2)	7.015	35352	5.559	ng/ml
29)	Aroclor 1248 (3)	7.046	32729	5.514	ng/ml
30)	Aroclor 1248 (4)	7.165	6623	0.908	ng/ml
31)	Aroclor 1248 (5)	7.548	1918	0.216	ng/ml
32)	Aroclor 1248 (6)	7.685	14454	1.775	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.524	9395	1.109	ng/ml
35)	Aroclor 1254 (2)	7.685	14454	1.039	ng/ml
36)	Aroclor 1254 (3)	8.005	5268	0.347	ng/ml
37)	Aroclor 1254 (4)	8.259	8884	0.814	ng/ml
38)	Aroclor 1254 (5)	8.579	2714	0.241	ng/ml
39)	Aroclor 1254 (6)	8.812	7296	2.068	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.125	5641	0.536	ng/ml
42)	Aroclor 1260 (2)	8.347	6463	0.506	ng/ml
43)	Aroclor 1260 (3)	8.579	2714	0.205	ng/ml
44)	Aroclor 1260 (4)	9.074	6484	0.307	ng/ml
45)	Aroclor 1260 (5)	9.319	2644	0.216	ng/ml
46)	Aroclor 1260 (6)	9.897	6047	1.239	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 17:52
Operator : MJB / KAK
Sample : 0020348-DUP1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:05 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

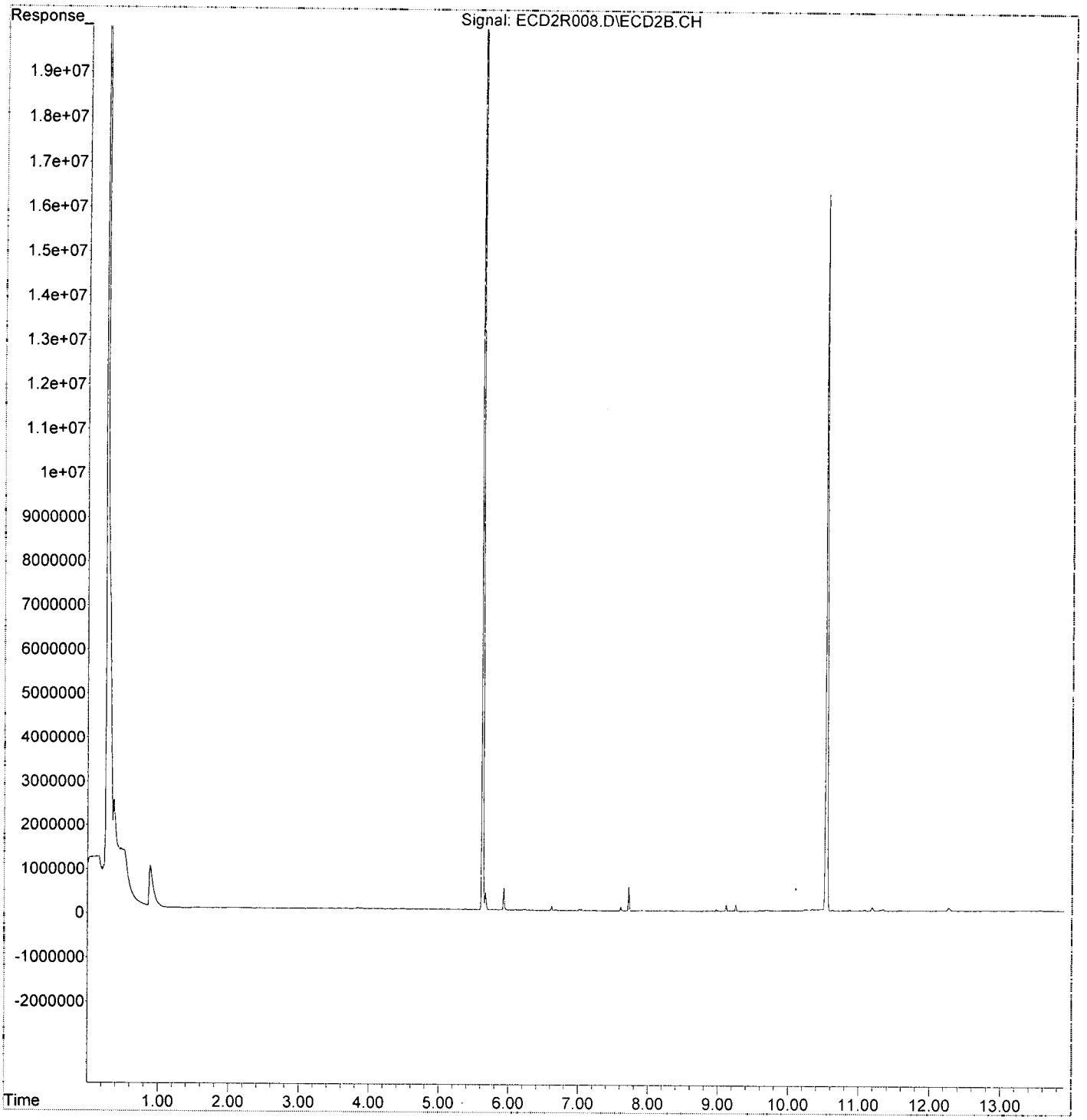
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.347	6463	0.611 ng/ml
49)	Aroclor 1262 (2)	8.647	3761	0.246 ng/ml
50)	Aroclor 1262 (3)	8.812	7296	0.570 ng/ml
51)	Aroclor 1262 (4)	9.074	6484	0.236 ng/ml
52)	Aroclor 1262 (5)	9.319	2644	0.161 ng/ml
53)	Aroclor 1262 (6)	9.879	7081	0.983 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.886	3937	0.632 ng/ml
56)	Aroclor 1268 (2)	9.319	2644	0.095 ng/ml
57)	Aroclor 1268 (3)	9.385	3531	0.157 ng/ml
58)	Aroclor 1268 (4)	9.599	19999	1.039 ng/ml
59)	Aroclor 1268 (5)	9.879	7081	0.905 ng/ml
60)	Aroclor 1268 (6)	10.237	34262	0.677 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 17:52
Operator : MJB / KAK
Sample : 0020348-DUP1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:05 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 18:28
Operator : MJB / KAK
Sample : A0A1011-05RE1
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:26 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.625	39722703	176.056	ng/ml
62) S	DCBP (S)	10.541	22858991	205.523	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.298	6025	0.975	ng/ml
3)	Aroclor 1016 (2)	6.786	3612	0.316	ng/ml
4)	Aroclor 1016 (3)	6.917	2198	0.410	ng/ml
5)	Aroclor 1016 (4)	7.015	27346	5.535	ng/ml
6)	Aroclor 1016 (5)	7.044	2799	0.505	ng/ml
7)	Aroclor 1016 (6)	7.171	2698	0.472	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.812	10876	6.260	ng/ml
10)	Aroclor 1221 (2)	5.870	9670	5.632	ng/ml
11)	Aroclor 1221 (3)	5.932	734826	128.759	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.932	734826	160.794	ng/ml
14)	Aroclor 1232 (2)	6.298	6025	2.315	ng/ml
15)	Aroclor 1232 (3)	6.786	3612	0.738	ng/ml
16)	Aroclor 1232 (4)	7.015	27346	16.163	ng/ml
17)	Aroclor 1232 (5)	7.044	2799	1.345	ng/ml
18)	Aroclor 1232 (6)	7.171	2698	1.244	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.298	6025	1.325	ng/ml
21)	Aroclor 1242 (2)	6.786	3612	0.409	ng/ml
22)	Aroclor 1242 (3)	6.917	2198	0.574	ng/ml
23)	Aroclor 1242 (4)	7.015	27346	8.278	ng/ml
24)	Aroclor 1242 (5)	7.044	2799	0.701	ng/ml
25)	Aroclor 1242 (6)	7.171	2698	0.647	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.757	4549	0.881	ng/ml
28)	Aroclor 1248 (2)	7.015	27346	4.300	ng/ml
29)	Aroclor 1248 (3)	7.044	2799	0.472	ng/ml
30)	Aroclor 1248 (4)	7.171	2698	0.370	ng/ml
31)	Aroclor 1248 (5)	7.541	1295	0.146	ng/ml
32)	Aroclor 1248 (6)	7.685	3444	0.423	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.515	1465	0.173	ng/ml
35)	Aroclor 1254 (2)	7.685	3444	0.248	ng/ml
36)	Aroclor 1254 (3)	7.997	3091	0.204	ng/ml
37)	Aroclor 1254 (4)	8.258	2680	0.245	ng/ml
38)	Aroclor 1254 (5)	8.578	3420	0.304	ng/ml
39)	Aroclor 1254 (6)	8.815	6357	1.802	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.139	2102	0.200	ng/ml
42)	Aroclor 1260 (2)	8.347	4388	0.344	ng/ml
43)	Aroclor 1260 (3)	8.578	3420	0.258	ng/ml
44)	Aroclor 1260 (4)	9.059	6104	0.289	ng/ml
45)	Aroclor 1260 (5)	9.318	7774	0.635	ng/ml
46)	Aroclor 1260 (6)	9.887	19289	3.953	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 18:28
Operator : MJB / KAK
Sample : A0A1011-05RE1
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:26 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

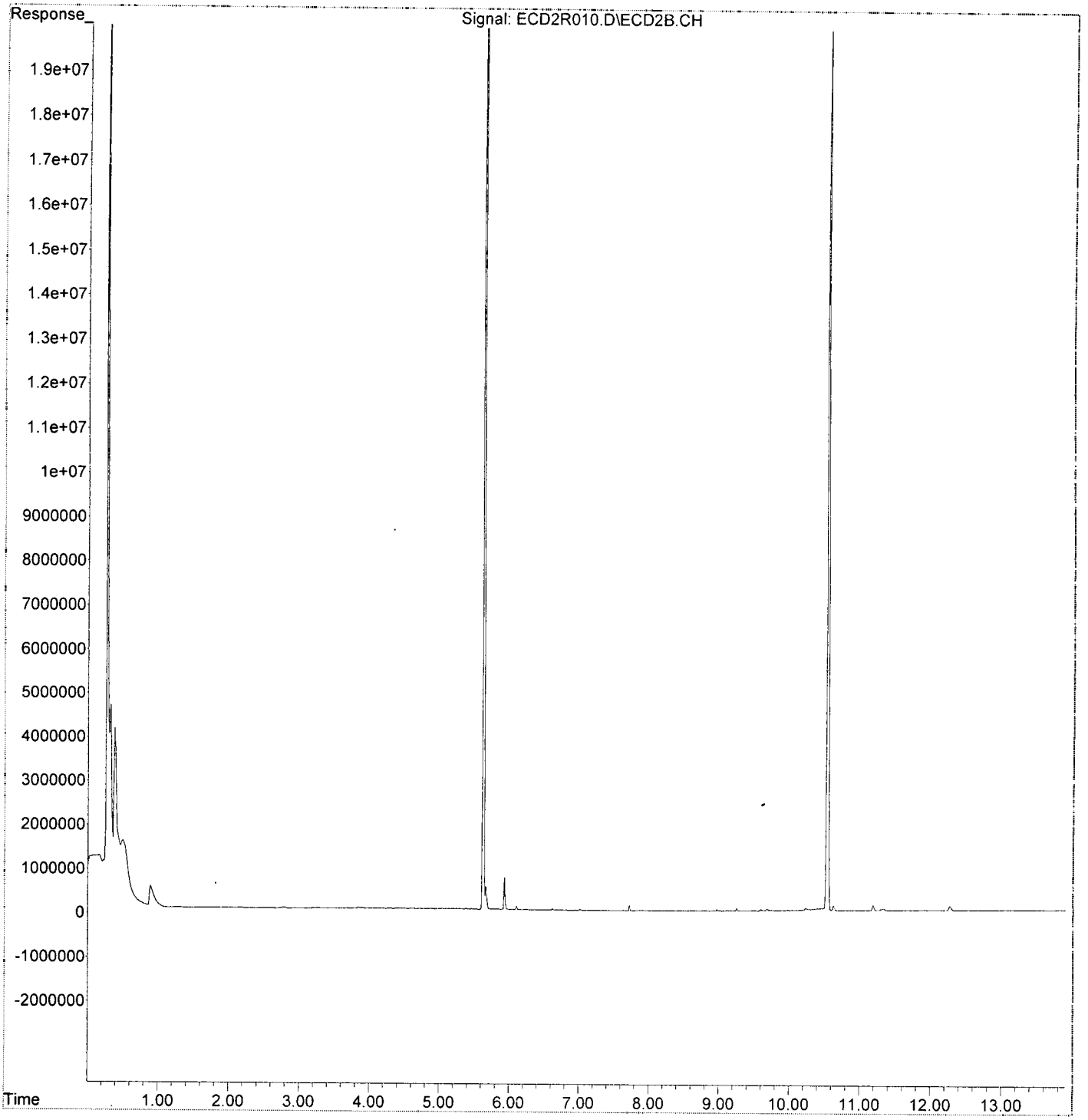
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.347	4388	0.415 ng/ml
49)	Aroclor 1262 (2)	8.647	3055	0.200 ng/ml
50)	Aroclor 1262 (3)	8.815	6357	0.496 ng/ml
51)	Aroclor 1262 (4)	9.059	6104	0.222 ng/ml
52)	Aroclor 1262 (5)	9.318	7774	0.473 ng/ml
53)	Aroclor 1262 (6)	9.887	19289	2.679 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.863	3731	0.599 ng/ml
56)	Aroclor 1268 (2)	9.318	7774	0.280 ng/ml
57)	Aroclor 1268 (3)	9.386	7893	0.351 ng/ml
58)	Aroclor 1268 (4)	9.598	46445	2.412 ng/ml
59)	Aroclor 1268 (5)	9.887	19289	2.466 ng/ml
60)	Aroclor 1268 (6)	10.235	77021	1.522 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 18:28
Operator : MJB / KAK
Sample : A0A1011-05RE1
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:26 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 19:03
Operator : MJB / KAK
Sample : A0A1011-06RE1
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:47 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

2/13/20

RR-8 N/A
2/13/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.626	31620230	140.144 ng/ml
62) S	DCBP (S)	10.539	24308122	218.552 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.297	13583	2.197 ng/ml
3)	Aroclor 1016 (2)	6.786	12381	1.082 ng/ml
4)	Aroclor 1016 (3)	6.913	9730	1.817 ng/ml
5)	Aroclor 1016 (4)	7.001	9669	1.957 ng/ml
6)	Aroclor 1016 (5)	7.045	9707	1.750 ng/ml
7)	Aroclor 1016 (6)	7.173	8767	1.535 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.810	16526	9.511 ng/ml
10)	Aroclor 1221 (2)	5.874	15999	9.318 ng/ml
11)	Aroclor 1221 (3)	5.933	615004	107.763 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.933	615004	134.574 ng/ml
14)	Aroclor 1232 (2)	6.297	13583	5.219 ng/ml
15)	Aroclor 1232 (3)	6.786	12381	2.531 ng/ml
16)	Aroclor 1232 (4)	7.001	9669	5.715 ng/ml
17)	Aroclor 1232 (5)	7.045	9707	4.665 ng/ml
18)	Aroclor 1232 (6)	7.173	8767	4.041 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.297	13583	2.988 ng/ml
21)	Aroclor 1242 (2)	6.786	12381	1.403 ng/ml
22)	Aroclor 1242 (3)	6.913	9730	2.540 ng/ml
23)	Aroclor 1242 (4)	7.001	9669	2.927 ng/ml
24)	Aroclor 1242 (5)	7.045	9707	2.431 ng/ml
25)	Aroclor 1242 (6)	7.173	8767	2.102 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.759	12752	2.470 ng/ml
28)	Aroclor 1248 (2)	7.001	9669	1.520 ng/ml
29)	Aroclor 1248 (3)	7.045	9707	1.635 ng/ml
30)	Aroclor 1248 (4)	7.173	8767	1.202 ng/ml
31)	Aroclor 1248 (5)	7.539	4872	0.547 ng/ml
32)	Aroclor 1248 (6)	7.689	6592	0.810 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.515	5608	0.662 ng/ml
35)	Aroclor 1254 (2)	7.689	6592	0.474 ng/ml
36)	Aroclor 1254 (3)	8.003	6136	0.404 ng/ml
37)	Aroclor 1254 (4)	8.243	3585	0.328 ng/ml
38)	Aroclor 1254 (5)	8.581	2682	0.238 ng/ml
39)	Aroclor 1254 (6)	8.801	3159	0.896 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.138	4842	0.460 ng/ml
42)	Aroclor 1260 (2)	8.346	4601	0.361 ng/ml
43)	Aroclor 1260 (3)	8.581	2682	0.202 ng/ml
44)	Aroclor 1260 (4)	9.059	4477	0.212 ng/ml
45)	Aroclor 1260 (5)	9.321	2332	0.191 ng/ml
46)	Aroclor 1260 (6)	9.891	9217	1.889 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 19:03
Operator : MJB / KAK
Sample : A0A1011-06RE1
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:47 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

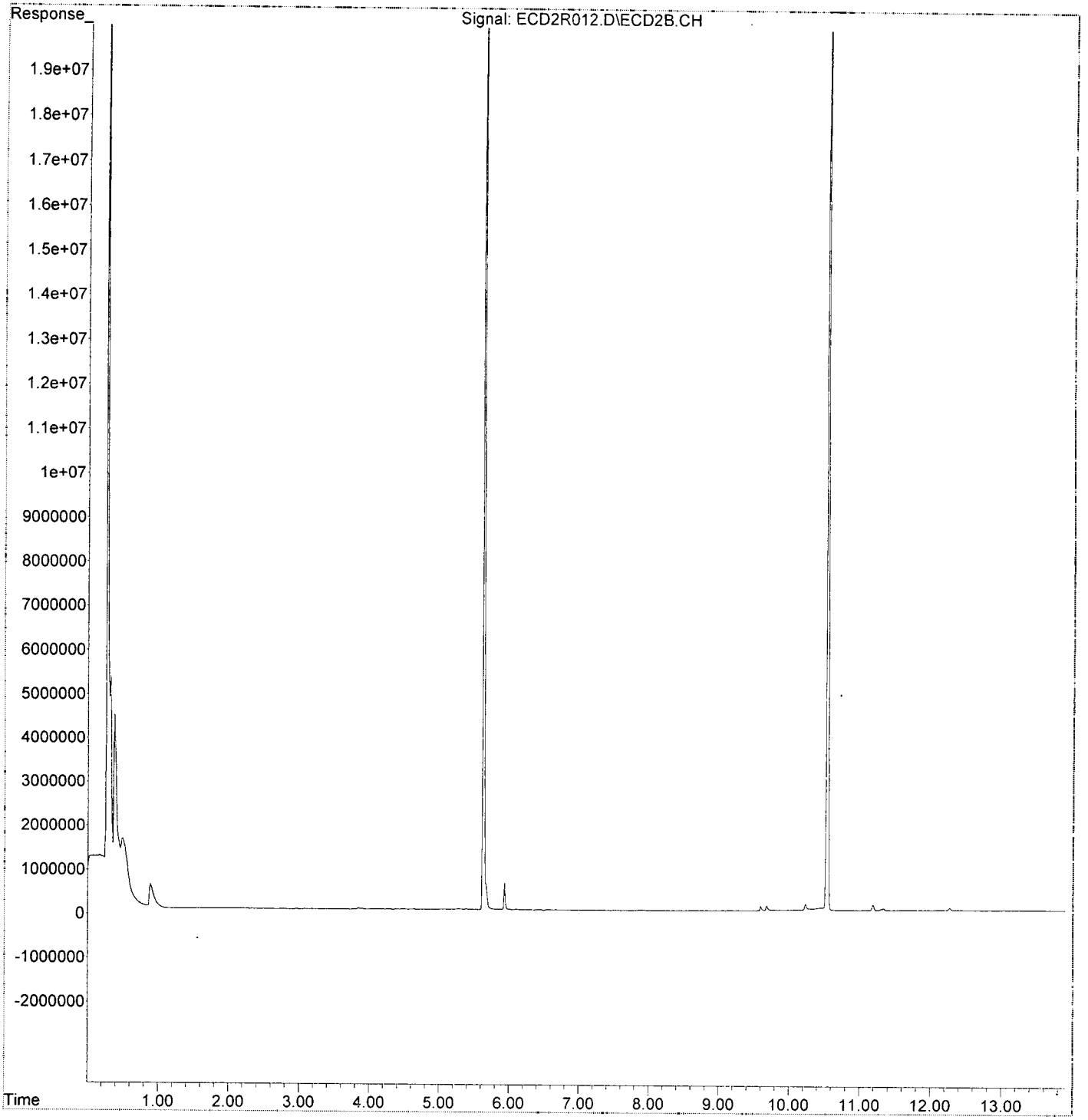
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.346	4601	0.435 ng/ml
49)	Aroclor 1262 (2)	8.651	2663	0.174 ng/ml
50)	Aroclor 1262 (3)	8.827	2840	0.222 ng/ml
51)	Aroclor 1262 (4)	9.059	4477	0.163 ng/ml
52)	Aroclor 1262 (5)	9.321	2332	0.142 ng/ml
53)	Aroclor 1262 (6)	9.891	9217	1.280 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.866	1462	0.235 ng/ml
56)	Aroclor 1268 (2)	9.321	2332	0.084 ng/ml
57)	Aroclor 1268 (3)	9.393	1521	0.068 ng/ml
58)	Aroclor 1268 (4)	9.596	103514	5.376 ng/ml
59)	Aroclor 1268 (5)	9.891	9217	1.178 ng/ml
60)	Aroclor 1268 (6)	10.232	148536	2.935 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 19:03
Operator : MJB / KAK
Sample : A0A1011-06RE1
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:18:47 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 19:38
Operator : MJB / KAK
Sample : 0020348-MS1
Misc :
ALS Vial : 60 Sample Multiplier: 1

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

2/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.625	36309218	160.927	ng/ml
62) S	DCBP (S)	10.538	25745050	231.471	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.296	5023943	812.675	ng/ml
3)	Aroclor 1016 (2)	6.787	9463010	827.089	ng/ml
4)	Aroclor 1016 (3)	6.913	3906868	729.369	ng/ml
5)	Aroclor 1016 (4)	6.999	4516387	914.108	ng/ml
6)	Aroclor 1016 (5)	7.044	5122785	923.770	ng/ml
7)	Aroclor 1016 (6)	7.169	4475763	783.493	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.800	331073	190.543	ng/ml
10)	Aroclor 1221 (2)	5.874	620716	361.516	ng/ml
11)	Aroclor 1221 (3)	5.961	2917829	511.271	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.961	2917829	638.475	ng/ml
14)	Aroclor 1232 (2)	6.296	5023943	1930.257	ng/ml
15)	Aroclor 1232 (3)	6.787	9463010	1934.401	ng/ml
16)	Aroclor 1232 (4)	6.999	4516387	2669.516	ng/ml
17)	Aroclor 1232 (5)	7.044	5122785	2461.877	ng/ml
18)	Aroclor 1232 (6)	7.169	4475763	2062.873	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.296	5023943	1105.054	ng/ml
21)	Aroclor 1242 (2)	6.787	9463010	1072.606	ng/ml
22)	Aroclor 1242 (3)	6.913	3906868	1020.025	ng/ml
23)	Aroclor 1242 (4)	6.999	4516387	1367.114	ng/ml
24)	Aroclor 1242 (5)	7.044	5122785	1282.643	ng/ml
25)	Aroclor 1242 (6)	7.169	4475763	1073.116	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.758	8211676	1590.784	ng/ml
28)	Aroclor 1248 (2)	6.999	4516387	710.196	ng/ml
29)	Aroclor 1248 (3)	7.044	5122785	863.036	ng/ml
30)	Aroclor 1248 (4)	7.169	4475763	613.496	ng/ml
31)	Aroclor 1248 (5)	7.534	1127014	126.606	ng/ml
32)	Aroclor 1248 (6)	7.693	4517044	554.837	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	3565166	420.726	ng/ml
35)	Aroclor 1254 (2)	7.693	4517044	324.737	ng/ml
36)	Aroclor 1254 (3)	8.003	2250349	148.300	ng/ml
37)	Aroclor 1254 (4)	8.242	1639489	150.185	ng/ml
38)	Aroclor 1254 (5)	8.577	13559618	1205.443	ng/ml
39)	Aroclor 1254 (6)	8.823	9564548	2711.668	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.138	10788537	1024.761	ng/ml
42)	Aroclor 1260 (2)	8.345	14405879	1128.770	ng/ml
43)	Aroclor 1260 (3)	8.577	13559618	1022.506	ng/ml
44)	Aroclor 1260 (4)	9.060	24713390	1168.345	ng/ml
45)	Aroclor 1260 (5)	9.318	13277964	1085.268	ng/ml
46)	Aroclor 1260 (6)	9.881	5446288	1116.052	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 19:38
Operator : MJB / KAK
Sample : 0020348-MS1
Misc :
ALS Vial : 60 Sample Multiplier: 1

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

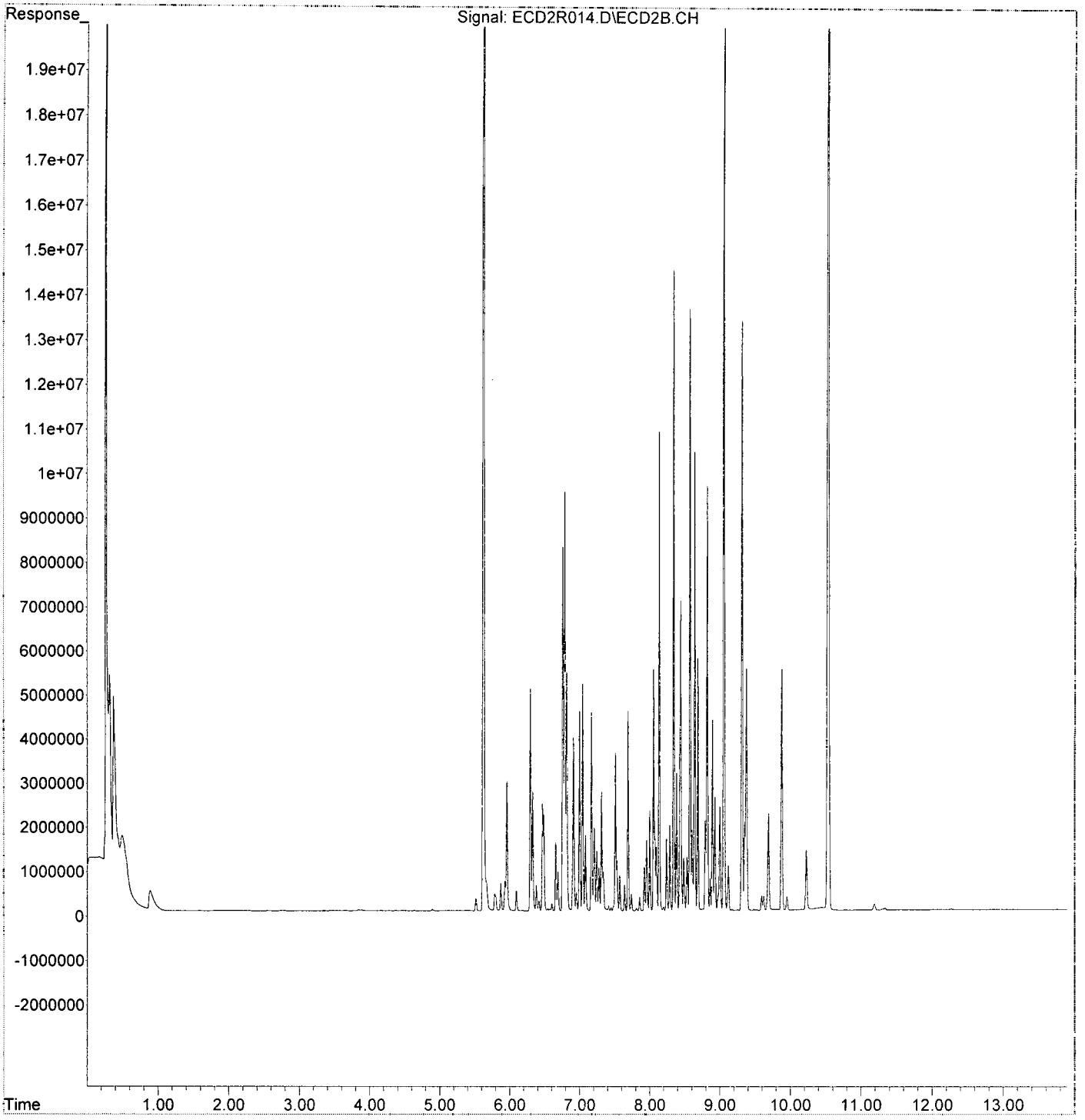
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	14405879	1362.684	ng/ml
49)	Aroclor 1262 (2)	8.645	10354694	677.774	ng/ml
50)	Aroclor 1262 (3)	8.823	9564548	746.985	ng/ml
51)	Aroclor 1262 (4)	9.060	24713390	897.865	ng/ml
52)	Aroclor 1262 (5)	9.318	13277964	808.668	ng/ml
53)	Aroclor 1262 (6)	9.881	5446288	756.373	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.863	727095	116.668	ng/ml
56)	Aroclor 1268 (2)	9.318	13277964	478.200	ng/ml
57)	Aroclor 1268 (3)	9.381	5462874	242.619	ng/ml
58)	Aroclor 1268 (4)	9.596	330407	17.161	ng/ml
59)	Aroclor 1268 (5)	9.881	5446288	696.173	ng/ml
60)	Aroclor 1268 (6)	10.228	1360869	26.887	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B12052\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 19:38
Operator : MJB / KAK
Sample : 0020348-MS1
Misc :
ALS Vial : 60 Sample Multiplier: 1

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



Quantitation Report (Not Reviewed)

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

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

2/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.627	56280721	249.443	ng/ml
62) S	DCBP (S)	10.540	32978230	296.504	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.297	3136569	507.373	ng/ml
3)	Aroclor 1016 (2)	6.788	5322804	465.225	ng/ml
4)	Aroclor 1016 (3)	6.915	2400928	448.227	ng/ml
5)	Aroclor 1016 (4)	7.000	2657711	537.916	ng/ml
6)	Aroclor 1016 (5)	7.045	2916518	525.923	ng/ml
7)	Aroclor 1016 (6)	7.171	2870972	502.571	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.801	234885	135.184	ng/ml
10)	Aroclor 1221 (2)	5.875	423224	246.493	ng/ml
11)	Aroclor 1221 (3)	5.962	1924896	337.286	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.962	1924896	421.203	ng/ml
14)	Aroclor 1232 (2)	6.297	3136569	1205.106	ng/ml
15)	Aroclor 1232 (3)	6.788	5322804	1088.072	ng/ml
16)	Aroclor 1232 (4)	7.000	2657711	1570.902	ng/ml
17)	Aroclor 1232 (5)	7.045	2916518	1401.603	ng/ml
18)	Aroclor 1232 (6)	7.171	2870972	1323.227	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.297	3136569	689.912	ng/ml
21)	Aroclor 1242 (2)	6.788	5322804	603.325	ng/ml
22)	Aroclor 1242 (3)	6.915	2400928	626.846	ng/ml
23)	Aroclor 1242 (4)	7.000	2657711	804.491	ng/ml
24)	Aroclor 1242 (5)	7.045	2916518	730.238	ng/ml
25)	Aroclor 1242 (6)	7.171	2870972	688.349	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.760	4732560	916.802	ng/ml
28)	Aroclor 1248 (2)	7.000	2657711	417.922	ng/ml
29)	Aroclor 1248 (3)	7.045	2916518	491.346	ng/ml
30)	Aroclor 1248 (4)	7.171	2870972	393.526	ng/ml
31)	Aroclor 1248 (5)	7.536	664628	74.663	ng/ml
32)	Aroclor 1248 (6)	7.694	2413402	296.442	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.512	2022386	238.662	ng/ml
35)	Aroclor 1254 (2)	7.694	2413402	173.503	ng/ml
36)	Aroclor 1254 (3)	8.005	1387197	91.417	ng/ml
37)	Aroclor 1254 (4)	8.244	963393	88.251	ng/ml
38)	Aroclor 1254 (5)	8.577	7330713	651.696	ng/ml
39)	Aroclor 1254 (6)	8.824	5207936	1476.515	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.139	5729933	544.264	ng/ml
42)	Aroclor 1260 (2)	8.345	6988924	547.616	ng/ml
43)	Aroclor 1260 (3)	8.577	7330713	552.796	ng/ml
44)	Aroclor 1260 (4)	9.061	12147271	574.272	ng/ml
45)	Aroclor 1260 (5)	9.318	7154024	584.731	ng/ml
46)	Aroclor 1260 (6)	9.882	2745851	562.679	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

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

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

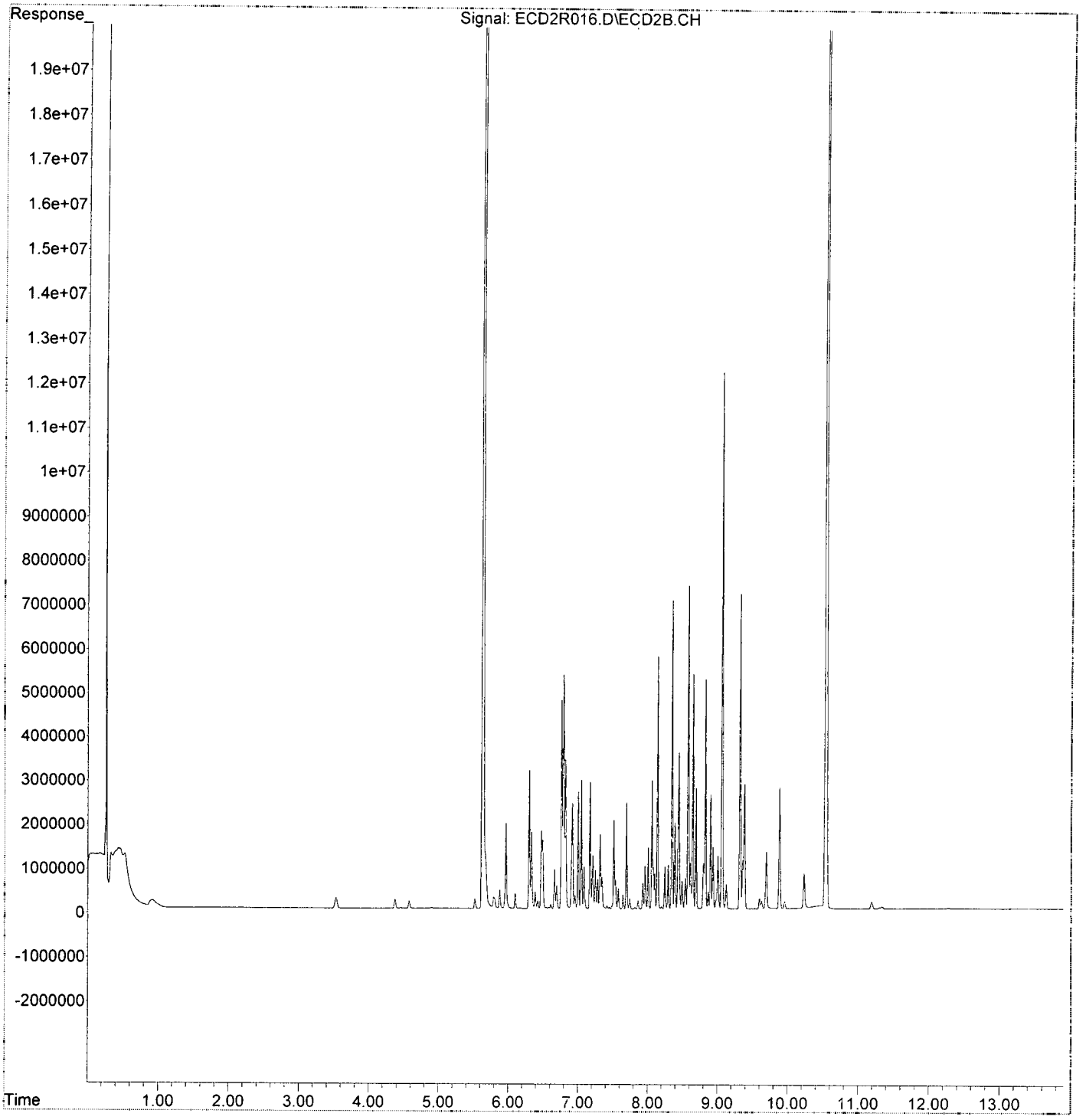
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.345	6988924	661.098	ng/ml
49)	Aroclor 1262 (2)	8.646	5335616	349.247	ng/ml
50)	Aroclor 1262 (3)	8.824	5207936	406.737	ng/ml
51)	Aroclor 1262 (4)	9.061	12147271	441.324	ng/ml
52)	Aroclor 1262 (5)	9.318	7154024	435.702	ng/ml
53)	Aroclor 1262 (6)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

2/13/20
clean

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

Quantitation Report (Not Reviewed)

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

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

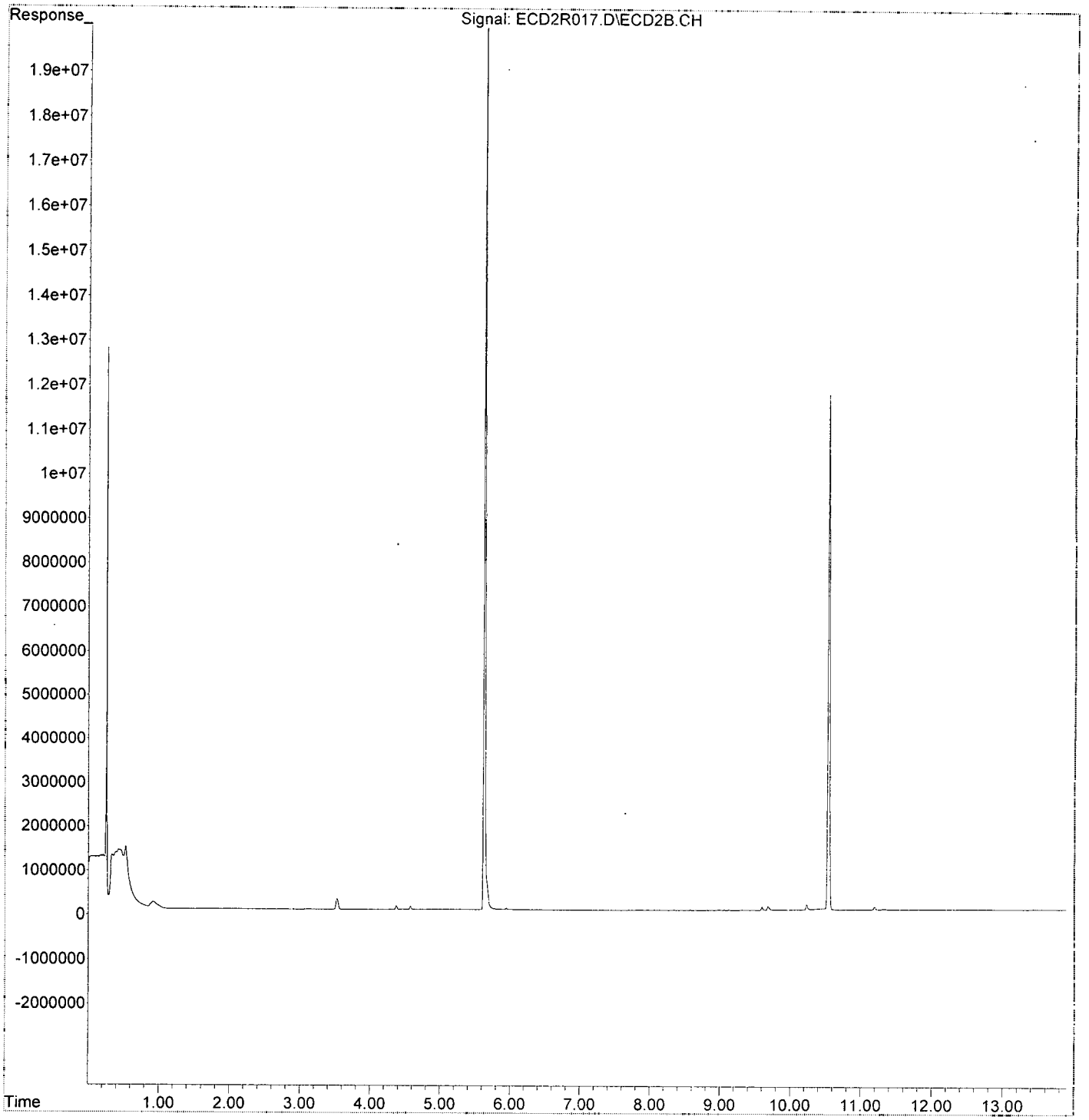
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.346	9836	0.930 ng/ml
49)	Aroclor 1262 (2)	8.646	5887	0.385 ng/ml
50)	Aroclor 1262 (3)	8.824	6485	0.506 ng/ml
51)	Aroclor 1262 (4)	9.061	13377	0.486 ng/ml
52)	Aroclor 1262 (5)	9.319	9794	0.596 ng/ml
53)	Aroclor 1262 (6)	9.885	7855	1.091 ng/ml
54)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 0A13050 (Cal ID A0A1501) DUALECD2R

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0A13050**	Instrument:	**DUALECD2R**
Date:	**01/13/20 16:03**	Calibration:	**A0A1501**

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

Comments:

Data Entered By: 1/15/20

Data Reviewed By: 1/16/2020

Calibration Status Report HP G1530A

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

A0A1501

1/15/20

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

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

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

Response Factor Report HP G1530A

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

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

1/15/20

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

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

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

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

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

Compound List Report HP G1530A

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

Total Cpnds : 62

1/15/20

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

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

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

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

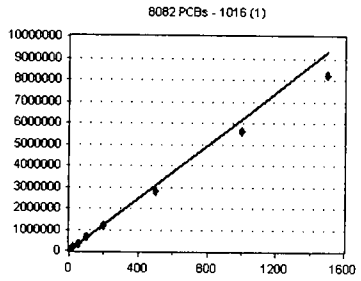
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

1016 (1)

Curve Fit: **AVERAGE RF**

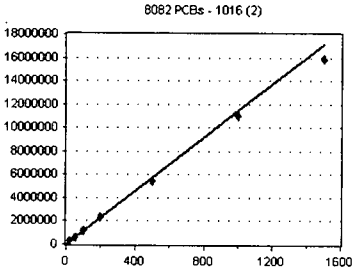


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	145279	7263.950	6.30
0A13050-CAL2	50	343821	6876.420	6.30
0A13050-CAL3	100	639728	6397.280	6.30
0A13050-CAL4	200	1190843	5954.215	6.30
0A13050-CAL5	500	2835860	5671.720	6.30
0A13050-CAL6	1000	5624087	5624.087	6.30
0A13050-CAL7	1500	8229290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

AVE RF **6181.981** RF RSD **11.06** AVE RT **6.30**

1016 (2)

Curve Fit: **AVERAGE RF**

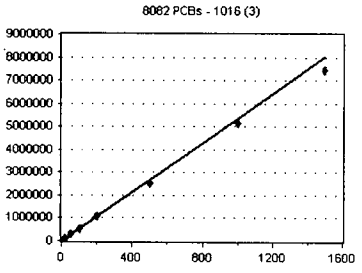


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	249458	12472.900	6.79
0A13050-CAL2	50	597996	11959.920	6.79
0A13050-CAL3	100	1142660	11426.600	6.79
0A13050-CAL4	200	2334544	11672.720	6.79
0A13050-CAL5	500	5484312	10968.620	6.79
0A13050-CAL6	1000	102544E+07	11025.440	6.79
0A13050-CAL7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

AVE RF **11441.350** RF RSD **5.70** AVE RT **6.79**

1016 (3)

Curve Fit: **AVERAGE RF**

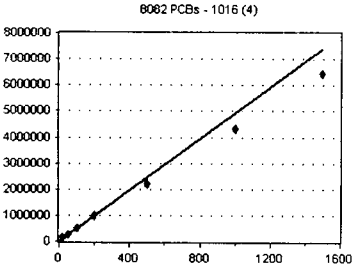


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	116035	5801.750	6.92
0A13050-CAL2	50	290069	5801.380	6.92
0A13050-CAL3	100	536991	5369.910	6.92
0A13050-CAL4	200	1067264	5336.320	6.92
0A13050-CAL5	500	2538905	5077.810	6.92
0A13050-CAL6	1000	5145954	5145.954	6.92
0A13050-CAL7	1500	7443643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

AVE RF **5356.508** RF RSD **6.26** AVE RT **6.92**

1016 (4)

Curve Fit: **AVERAGE RF**



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

AVE RF **4940.762** RF RSD **12.78** AVE RT **7.00**

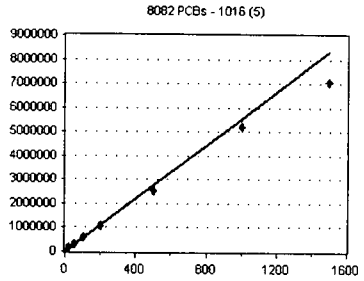
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

1016 (5)

Curve Fit: **AVERAGE RF**

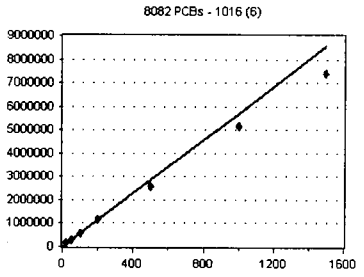


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	131375	6568.750	7.05
0A13050-CAL2	50	307931	6158.620	7.05
0A13050-CAL3	100	569313	5693.130	7.05
0A13050-CAL4	200	1076394	5381.970	7.05
0A13050-CAL5	500	2536989	5073.978	7.05
0A13050-CAL6	1000	5224293	5224.293	7.05
0A13050-CAL7	1500	7076827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

AVE RF **5545.518** RF RSD **11.60** AVE RT **7.05**

1016 (6)

Curve Fit: **AVERAGE RF**

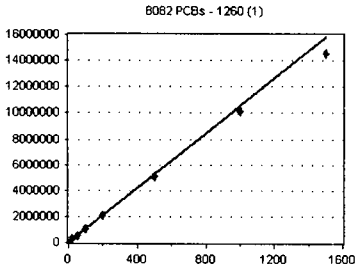


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	135212	6760.600	7.17
0A13050-CAL2	50	315508	6310.160	7.17
0A13050-CAL3	100	588135	5881.350	7.17
0A13050-CAL4	200	1160064	5800.320	7.17
0A13050-CAL5	500	2573883	5147.766	7.17
0A13050-CAL6	1000	5149713	5149.713	7.17
0A13050-CAL7	1500	7407214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

AVE RF **5712.579** RF RSD **11.80** AVE RT **7.17**

1260 (1)

Curve Fit: **AVERAGE RF**

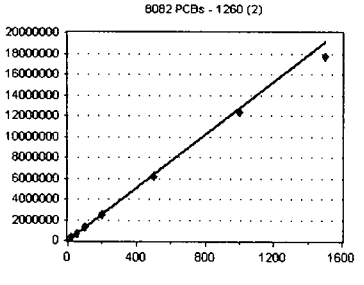


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	236430	11821.500	8.14
0A13050-CAL2	50	540959	10819.180	8.14
0A13050-CAL3	100	1060465	10604.650	8.14
0A13050-CAL4	200	2093221	10466.110	8.14
0A13050-CAL5	500	5080914	10161.830	8.14
0A13050-CAL6	1000	012309E+07	10123.090	8.14
0A13050-CAL7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

AVE RF **10527.860** RF RSD **6.43** AVE RT **8.14**

1260 (2)

Curve Fit: **AVERAGE RF**



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

AVE RF **12762.460** RF RSD **5.91** AVE RT **8.35**

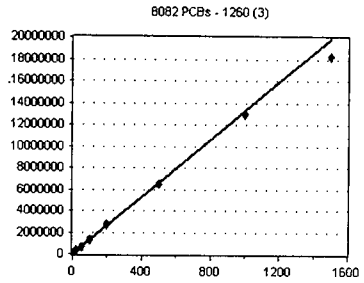
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

1260 (3)

Curve Fit: **AVERAGE RF**

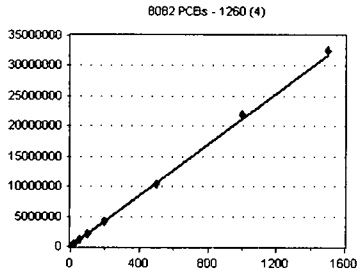


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	282360	14118.000	8.58
0A13050-CAL2	50	674172	13483.440	8.58
0A13050-CAL3	100	1327338	13273.380	8.58
0A13050-CAL4	200	2744238	13721.190	8.58
0A13050-CAL5	500	6540031	13080.060	8.58
0A13050-CAL6	1000	296167E+07	12961.670	8.58
0A13050-CAL7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

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

1260 (4)

Curve Fit: **AVERAGE RF**

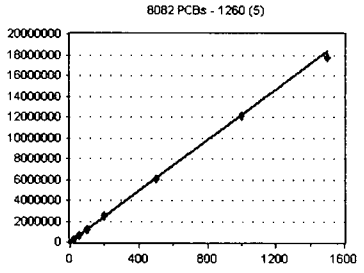


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	414593	20729.650	9.07
0A13050-CAL2	50	1047953	20959.060	9.07
0A13050-CAL3	100	2051063	20510.630	9.07
0A13050-CAL4	200	4251874	21259.370	9.07
0A13050-CAL5	500	049673E+07	20993.460	9.07
0A13050-CAL6	1000	188659E+07	21886.590	9.07
0A13050-CAL7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

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

1260 (5)

Curve Fit: **AVERAGE RF**

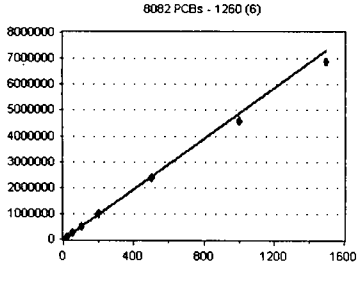


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	257901	12895.050	9.33
0A13050-CAL2	50	608364	12167.280	9.33
0A13050-CAL3	100	1220407	12204.070	9.33
0A13050-CAL4	200	2471890	12359.450	9.33
0A13050-CAL5	500	6070844	12141.690	9.33
0A13050-CAL6	1000	207436E+07	12074.360	9.33
0A13050-CAL7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

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

1260 (6)

Curve Fit: **AVERAGE RF**



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

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

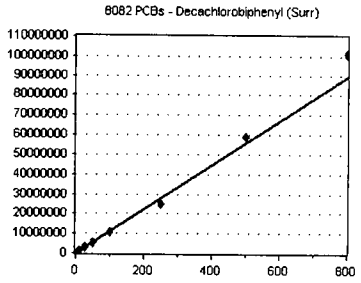
Element Calibration Review Sheet

Calibration ID: **A0A1501** Instrument: **DUALECD2R** Calibration Date: **01/15/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_20011**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



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

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

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

Analysis Included

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

INSTRUMENT SEQUENCE LOG

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

CALIBRATION STANDARD RECOVERIES

Calibration: A0A1501 Instrument: DUALECD2R

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

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

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

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

Aroclor 1016	0.0000	0.00	50.0	0
Aroclor 1260	0.0000	0.00	50.0	0

0A13050-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	

0A13050-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	

0A13050-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	

0A13050-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	800.0000	0.00	1000	0	
Aroclor 1260	800.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	

0A13050-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	800.0000	0.00	1500	0	
Aroclor 1260	800.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	

0A13050-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1221	0.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	

0A13050-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1232	0.0000	0.00	500	0	
Aroclor 1232	0.0000	0.00	500	0	

0A13050-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1242	0.0000	0.00	500	0	
Aroclor 1242	0.0000	0.00	500	0	

0A13050-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1248	0.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	

0A13050-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1254	0.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

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

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

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic 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 otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

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

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

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

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

Quantitation Report (Not Reviewed)

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

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

1/14/20
clean

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

Quantitation Report (Not Reviewed)

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

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

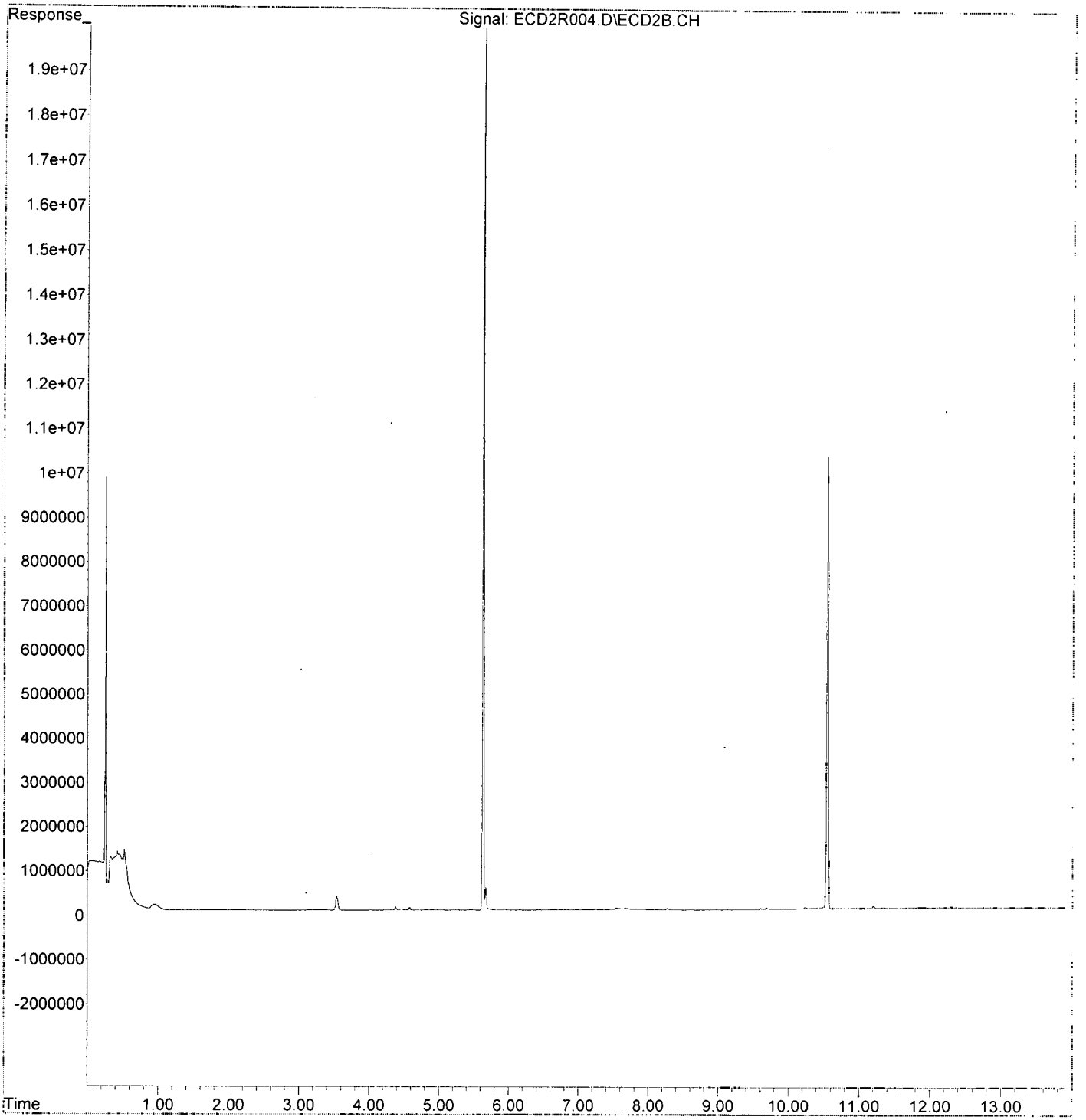
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	8866	0.839 ng/ml
49)	Aroclor 1262 (2)	8.652	2754	0.180 ng/ml
50)	Aroclor 1262 (3)	8.829	2251	0.176 ng/ml
51)	Aroclor 1262 (4)	9.066	3813	0.139 ng/ml
52)	Aroclor 1262 (5)	9.322	4847	0.295 ng/ml
53)	Aroclor 1262 (6)	9.899	14949	2.076 ng/ml
54)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

1/14/20

clean

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

Quantitation Report (Not Reviewed)

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

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

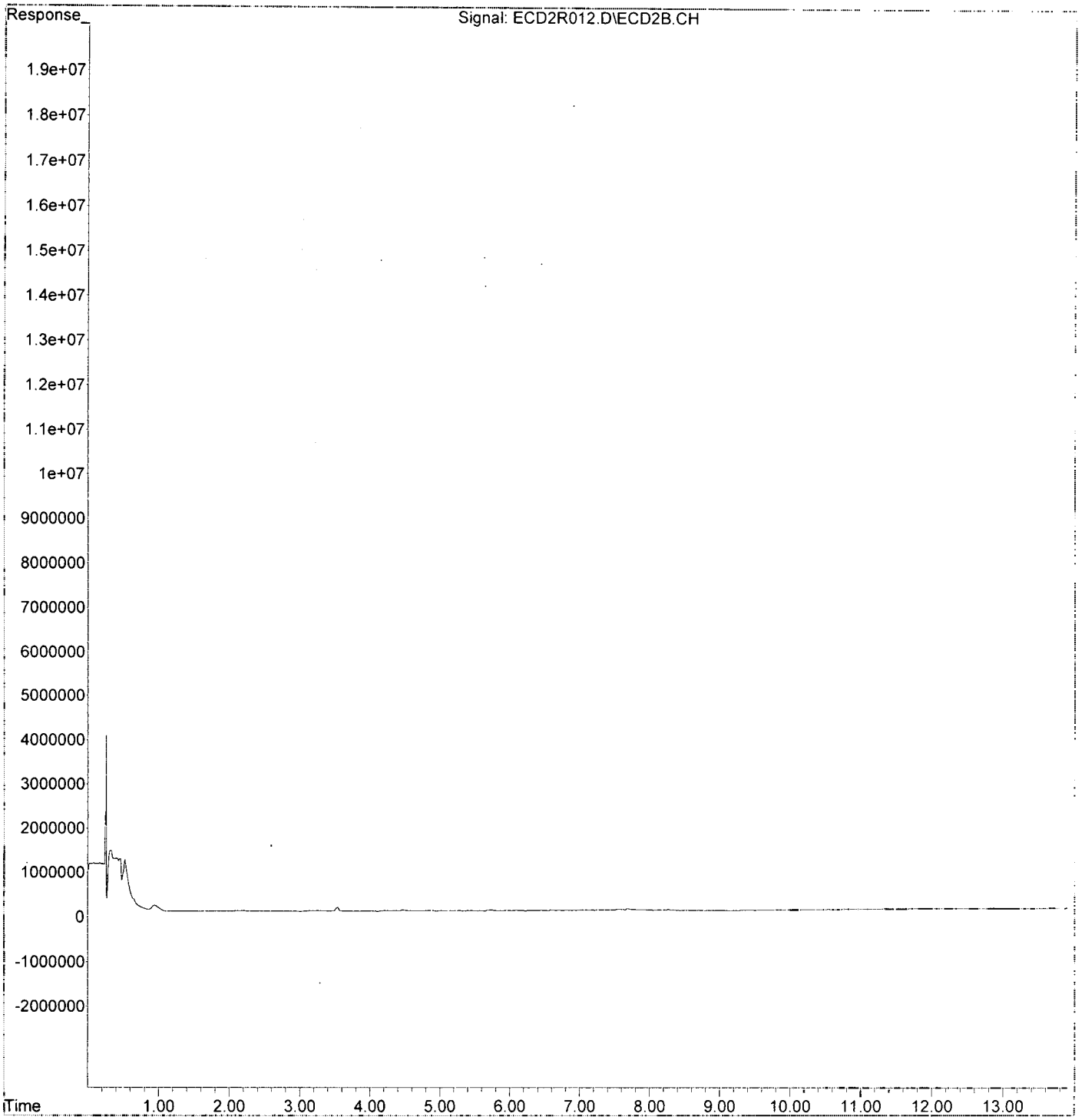
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	14859	1.406 ng/ml
49)	Aroclor 1262 (2)	8.648	8953	0.586 ng/ml
50)	Aroclor 1262 (3)	8.830	8859	0.692 ng/ml
51)	Aroclor 1262 (4)	9.068	8772	0.319 ng/ml
52)	Aroclor 1262 (5)	9.323	6842	0.417 ng/ml
53)	Aroclor 1262 (6)	9.889	5119	0.711 ng/ml
54)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

1/14/20

1016, 1260

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
1)	S	TCMX (S)	5.630	42078237	186.496	ng/ml	
62)	S	DCBP (S)	10.551	20822783	187.215	ng/ml	
		Target Compounds					
2)		Aroclor 1016 (1)	6.301	2889380	467.387	ng/ml	471.989
3)		Aroclor 1016 (2)	6.790	5607269	490.088	ng/ml	
4)		Aroclor 1016 (3)	6.917	2567499	479.323	ng/ml	
5)		Aroclor 1016 (4)	7.004	2249246	455.243	ng/ml	
6)		Aroclor 1016 (5)	7.048	2695002	485.978	ng/ml	
7)		Aroclor 1016 (6)	7.174	2593036	453.917	ng/ml	
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)		Aroclor 1221 (1)	5.805	201677	116.072	ng/ml	
10)		Aroclor 1221 (2)	5.878	410071	238.833	ng/ml	
11)		Aroclor 1221 (3)	5.965	1966837	344.635	ng/ml	
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)		Aroclor 1232 (1)	5.965	1966837	430.380	ng/ml	
14)		Aroclor 1232 (2)	6.301	2889380	1110.133	ng/ml	
15)		Aroclor 1232 (3)	6.790	5607269	1146.221	ng/ml	
16)		Aroclor 1232 (4)	7.004	2249246	1329.470	ng/ml	
17)		Aroclor 1232 (5)	7.048	2695002	1295.148	ng/ml	
18)		Aroclor 1232 (6)	7.174	2593036	1195.127	ng/ml	
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)		Aroclor 1242 (1)	6.301	2889380	635.541	ng/ml	
21)		Aroclor 1242 (2)	6.790	5607269	635.568	ng/ml	
22)		Aroclor 1242 (3)	6.917	2567499	670.336	ng/ml	
23)		Aroclor 1242 (4)	7.004	2249246	680.849	ng/ml	
24)		Aroclor 1242 (5)	7.048	2695002	674.775	ng/ml	
25)		Aroclor 1242 (6)	7.174	2593036	621.710	ng/ml	
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)		Aroclor 1248 (1)	6.763	4488766	869.574	ng/ml	
28)		Aroclor 1248 (2)	7.004	2249246	353.691	ng/ml	
29)		Aroclor 1248 (3)	7.048	2695002	454.027	ng/ml	
30)		Aroclor 1248 (4)	7.174	2593036	355.429	ng/ml	
31)		Aroclor 1248 (5)	7.539	576503	64.763	ng/ml	
32)		Aroclor 1248 (6)	7.698	2400401	294.846	ng/ml	
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)		Aroclor 1254 (1)	7.516	2114363	249.516	ng/ml	
35)		Aroclor 1254 (2)	7.698	2400401	172.569	ng/ml	
36)		Aroclor 1254 (3)	8.008	1313048	86.531	ng/ml	
37)		Aroclor 1254 (4)	8.247	825780	75.645	ng/ml	
38)		Aroclor 1254 (5)	8.583	7455081	662.753	ng/ml	
39)		Aroclor 1254 (6)	8.801	882029	250.066	ng/ml	
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)		Aroclor 1260 (1)	8.144	5628529	534.632	ng/ml	502.527
42)		Aroclor 1260 (2)	8.350	7018796	549.956	ng/ml	
43)		Aroclor 1260 (3)	8.583	7455081	562.174	ng/ml	
44)		Aroclor 1260 (4)	9.067	10304134	487.136	ng/ml	
45)		Aroclor 1260 (5)	9.325	6100150	498.593	ng/ml	
46)		Aroclor 1260 (6)	9.890	1867409	382.669	ng/ml	
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

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

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

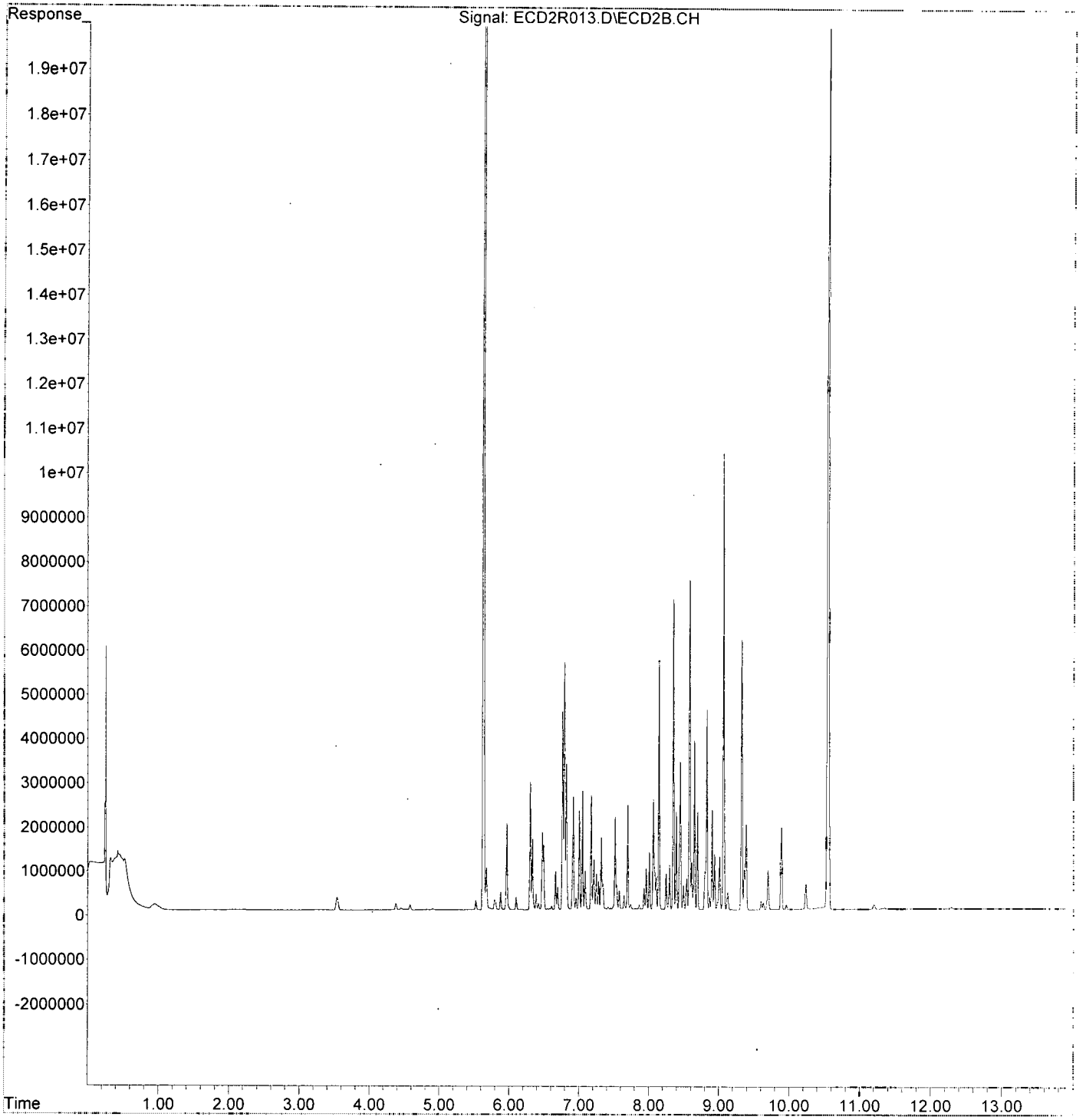
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.350	7018796	663.923 ng/ml
49)	Aroclor 1262 (2)	8.651	3830979	250.759 ng/ml
50)	Aroclor 1262 (3)	8.829	4526983	353.555 ng/ml
51)	Aroclor 1262 (4)	9.067	10304134	374.361 ng/ml
52)	Aroclor 1262 (5)	9.325	6100150	371.517 ng/ml
53)	Aroclor 1262 (6)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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

1/14/20
1221, 1254

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

923.016

509.344

Quantitation Report (Not Reviewed)

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

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

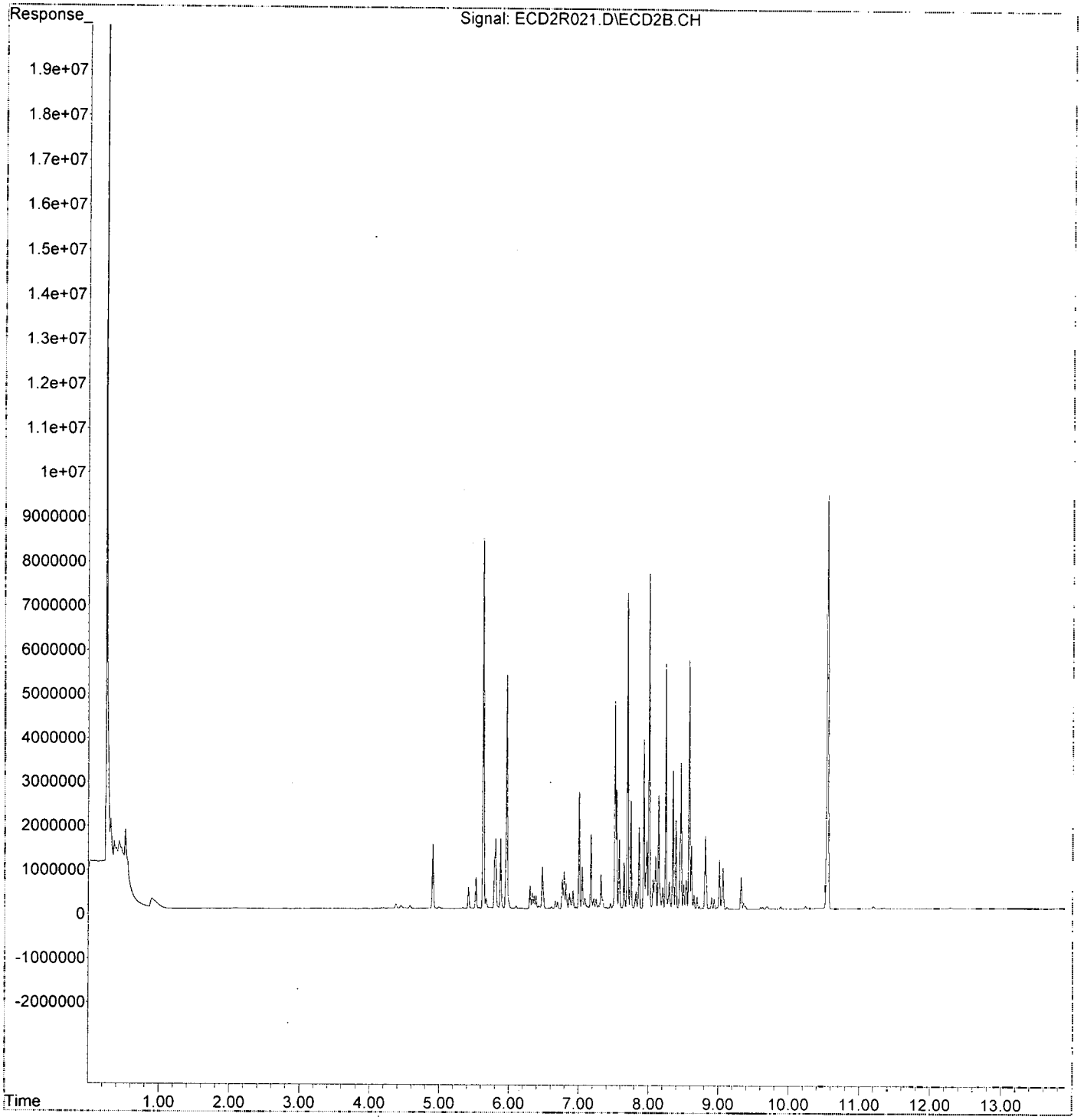
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	3126649	295.757	ng/ml
49)	Aroclor 1262 (2)	8.649	316091	20.690	ng/ml
50)	Aroclor 1262 (3)	8.811	1659515	129.607	ng/ml
51)	Aroclor 1262 (4)	9.065	944219	34.305	ng/ml
52)	Aroclor 1262 (5)	9.323	736233	44.839	ng/ml
53)	Aroclor 1262 (6)	9.889	56325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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

1/14/20

1232, 1262

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

513.053

Quantitation Report (Not Reviewed)

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

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

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

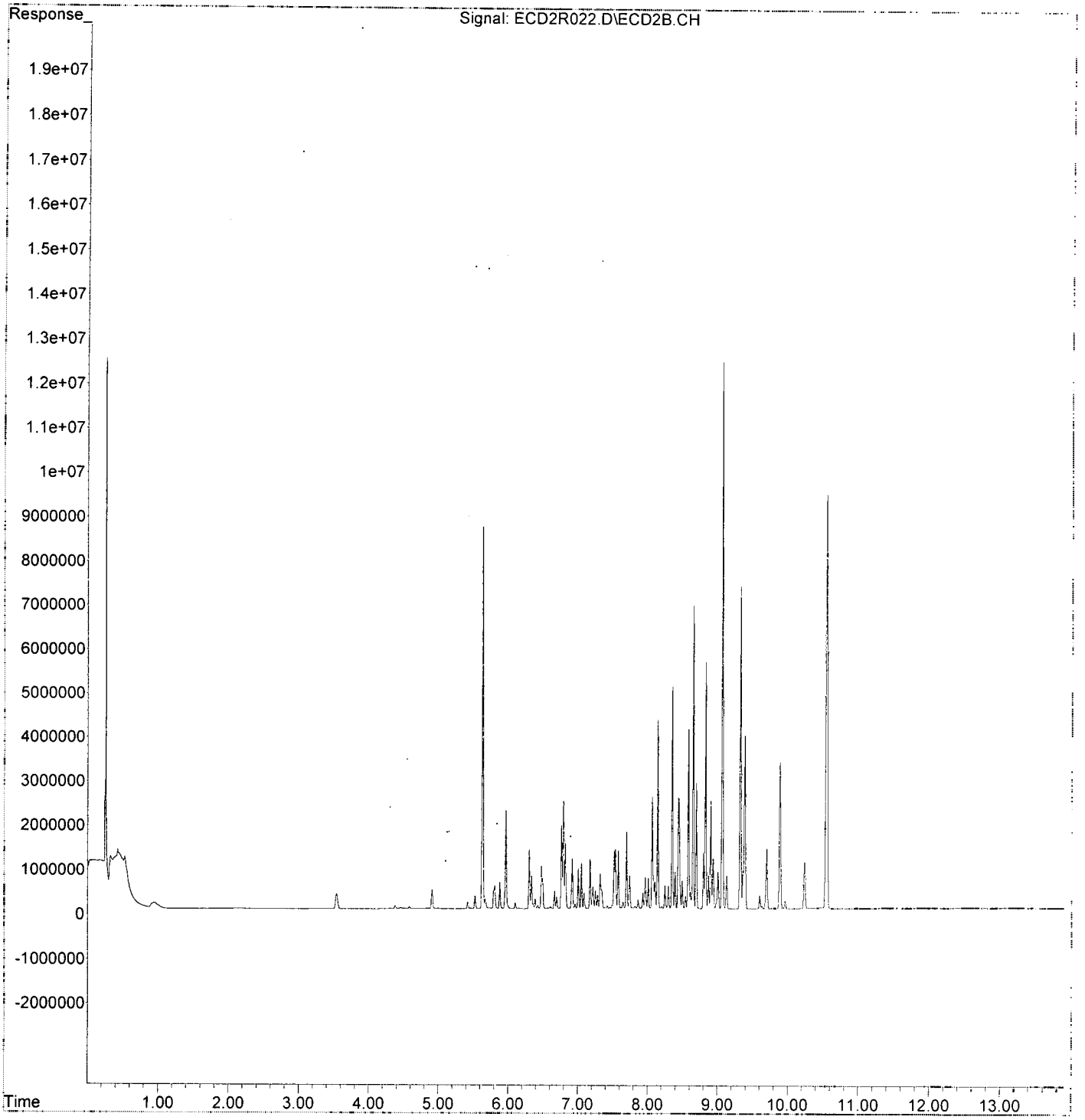
452.900

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

1/14/20

1242, 1268

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

525.365

Quantitation Report (Not Reviewed)

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

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

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

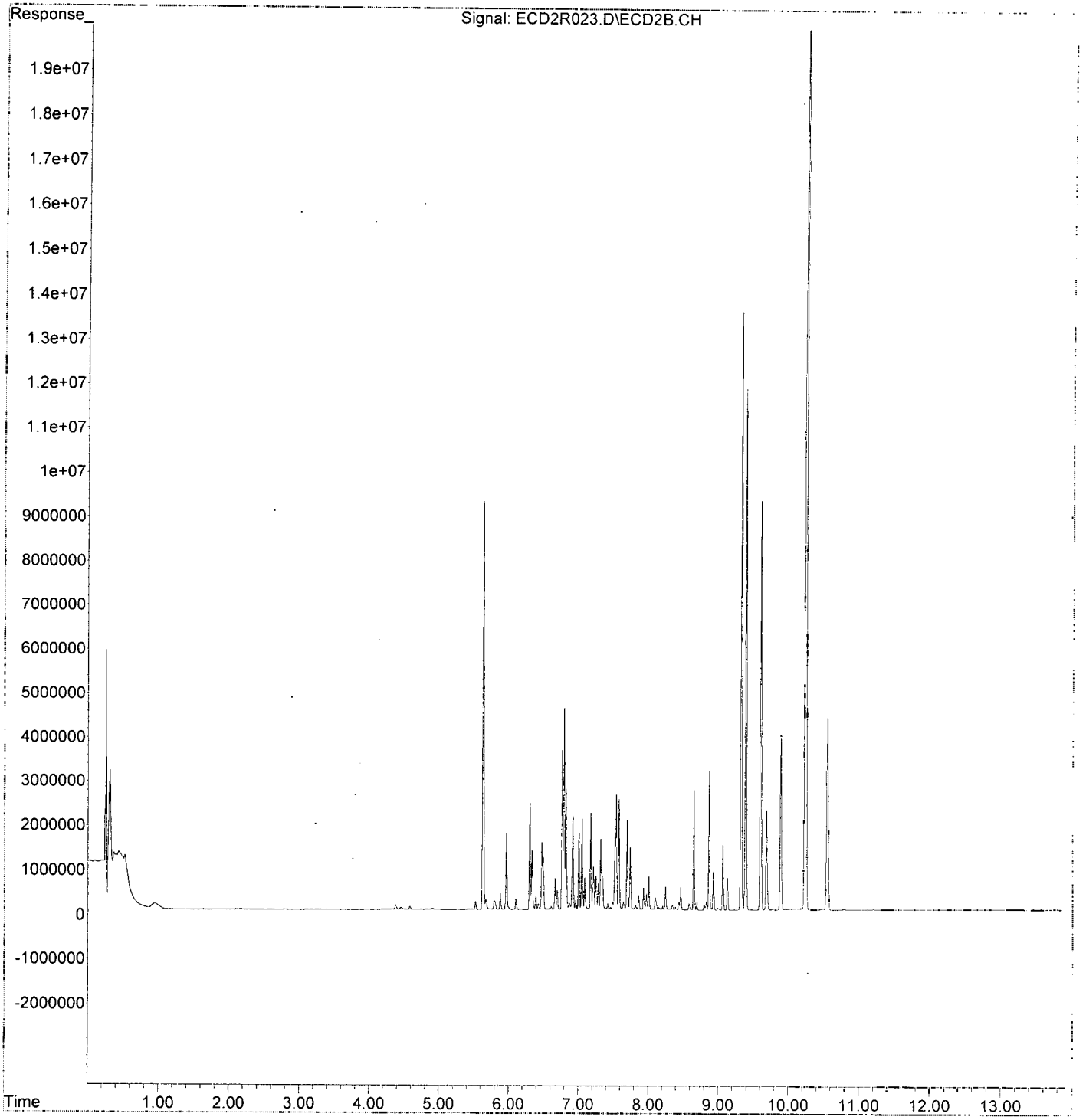
502.888

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (Not Reviewed)

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

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

1/14/20

12AB

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

590.920

Quantitation Report (Not Reviewed)

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

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

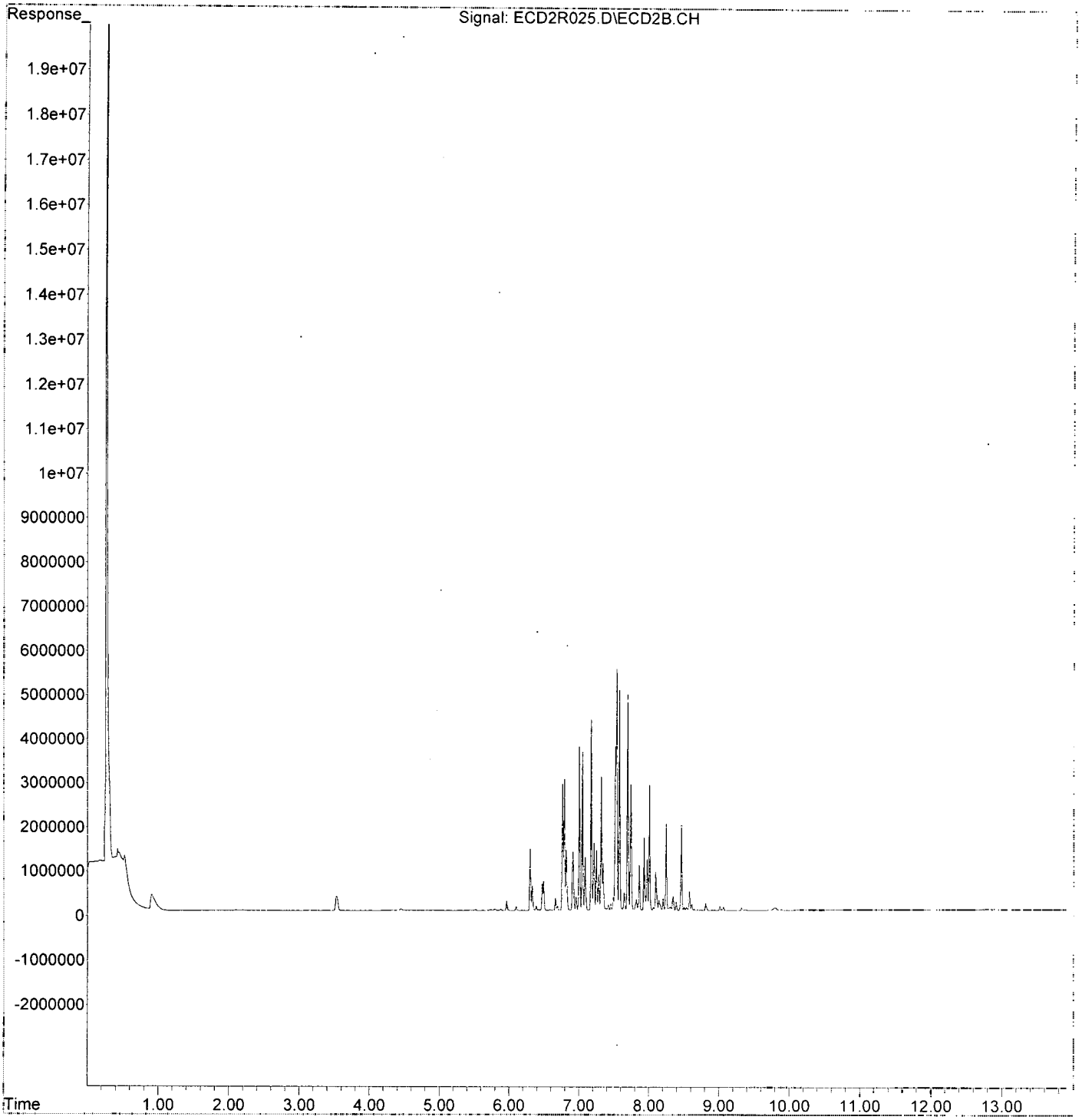
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.347	321684	30.429 ng/ml
49)	Aroclor 1262 (2)	8.651	34532	2.260 ng/ml
50)	Aroclor 1262 (3)	8.811	168693	13.175 ng/ml
51)	Aroclor 1262 (4)	9.066	86034	3.126 ng/ml
52)	Aroclor 1262 (5)	9.324	59779	3.641 ng/ml
53)	Aroclor 1262 (6)	9.890	17482	2.428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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

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

1/14/20

Quantitation Report (QT Reviewed)

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

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

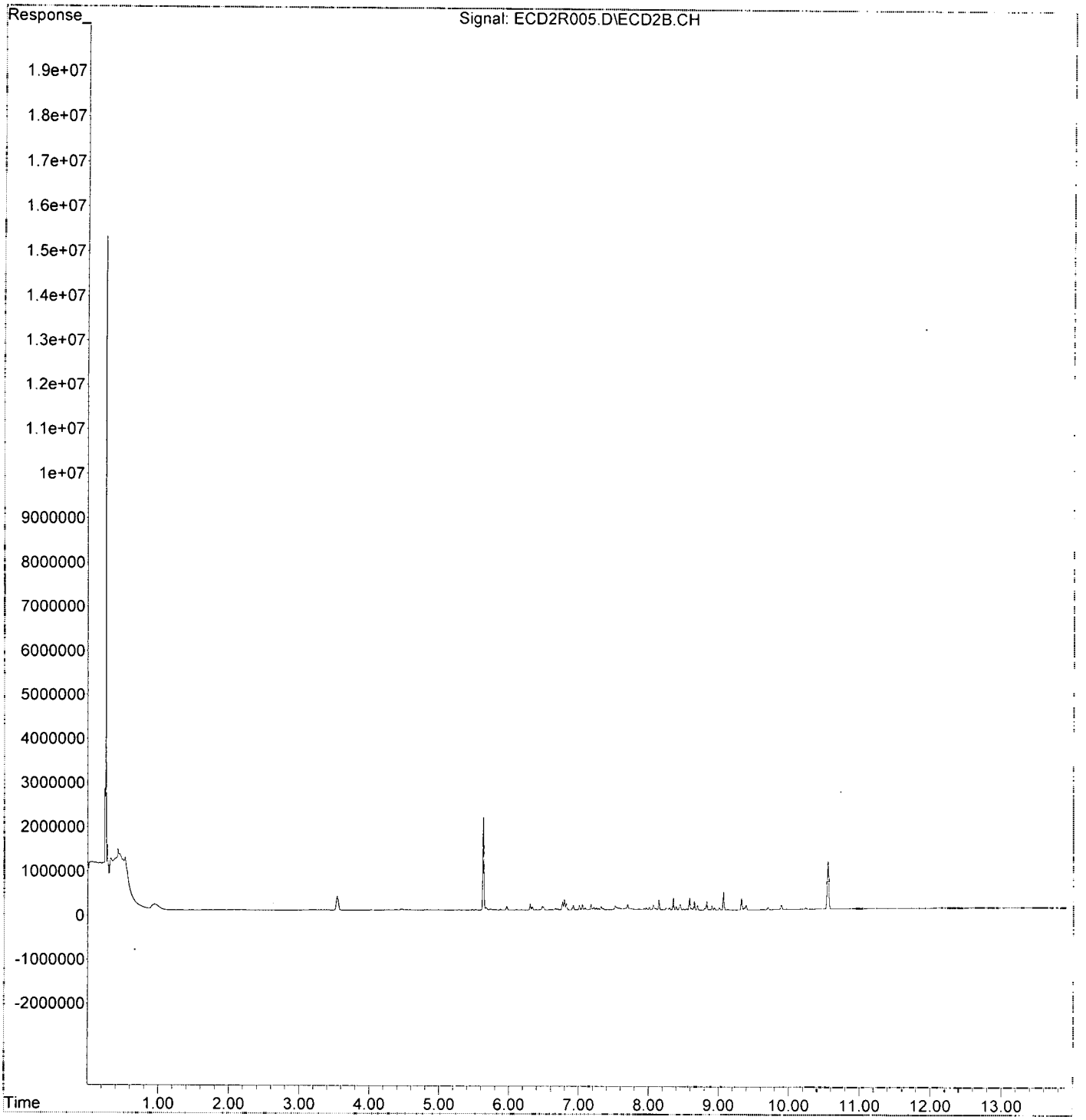
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

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

Quantitation Report (QT Reviewed)

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

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

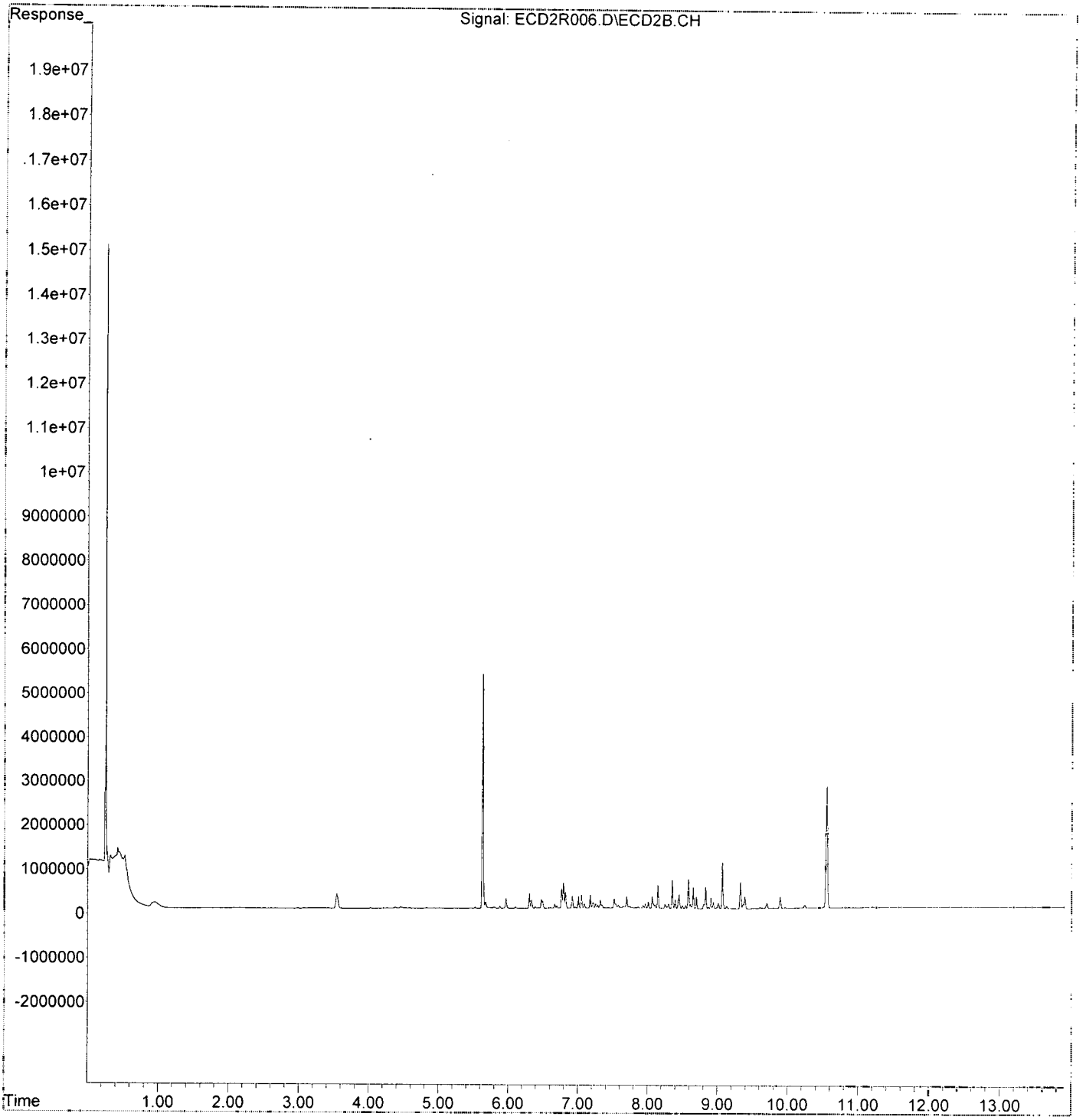
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

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

1/14/20

Quantitation Report (QT Reviewed)

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

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

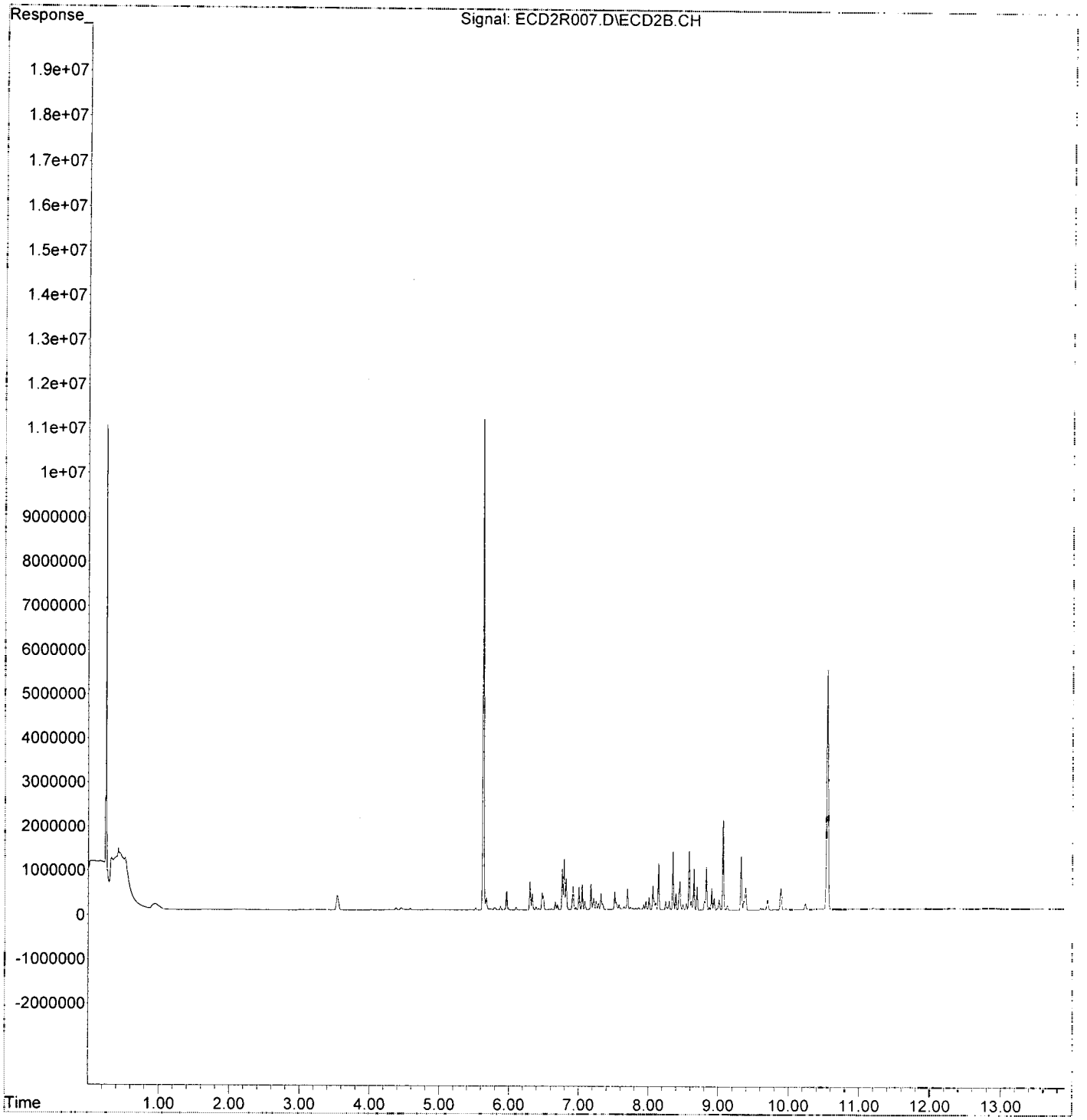
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

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

1/14/20

Quantitation Report (QT Reviewed)

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

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

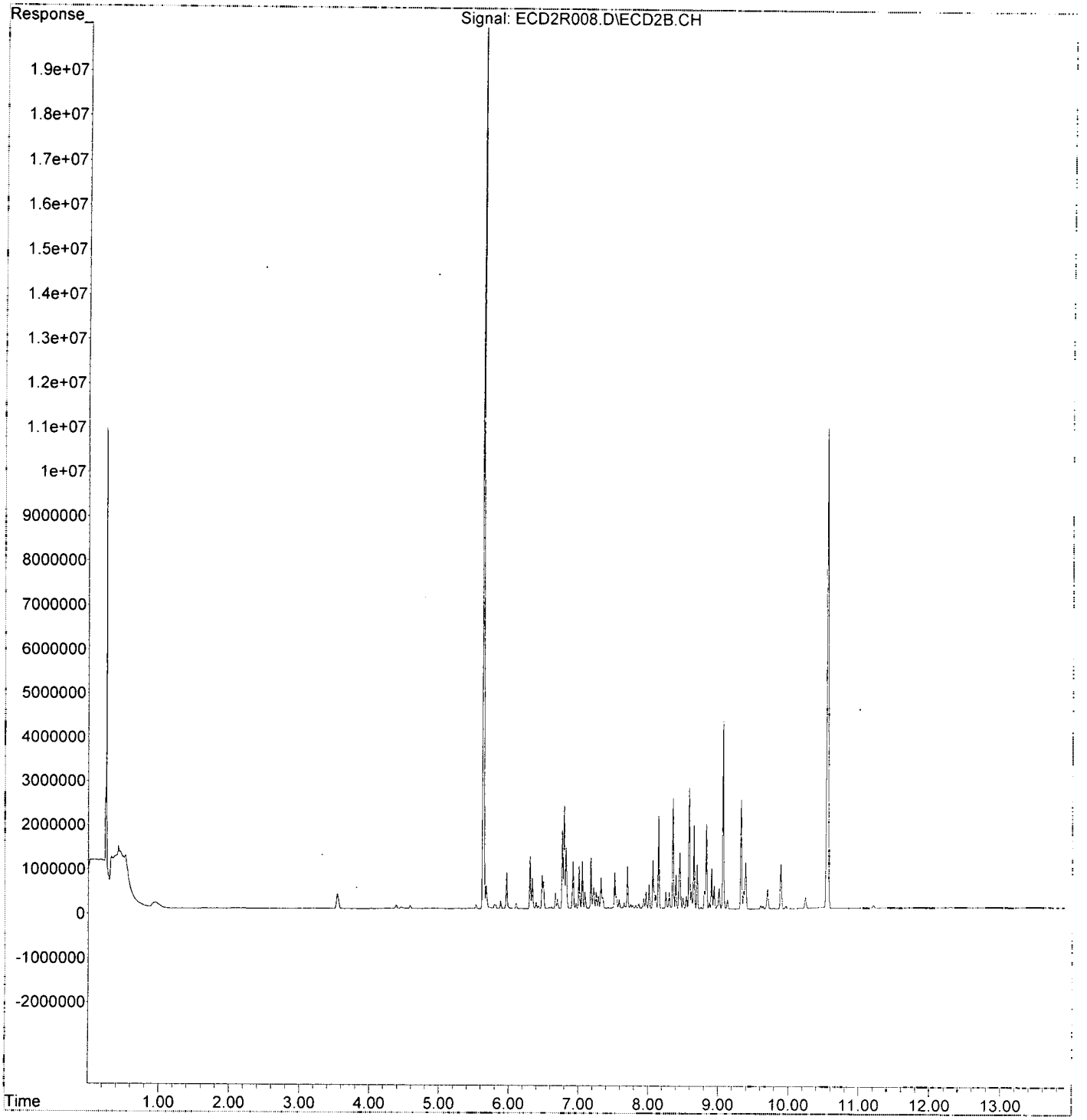
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

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

1/14/20

Quantitation Report (QT Reviewed)

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

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

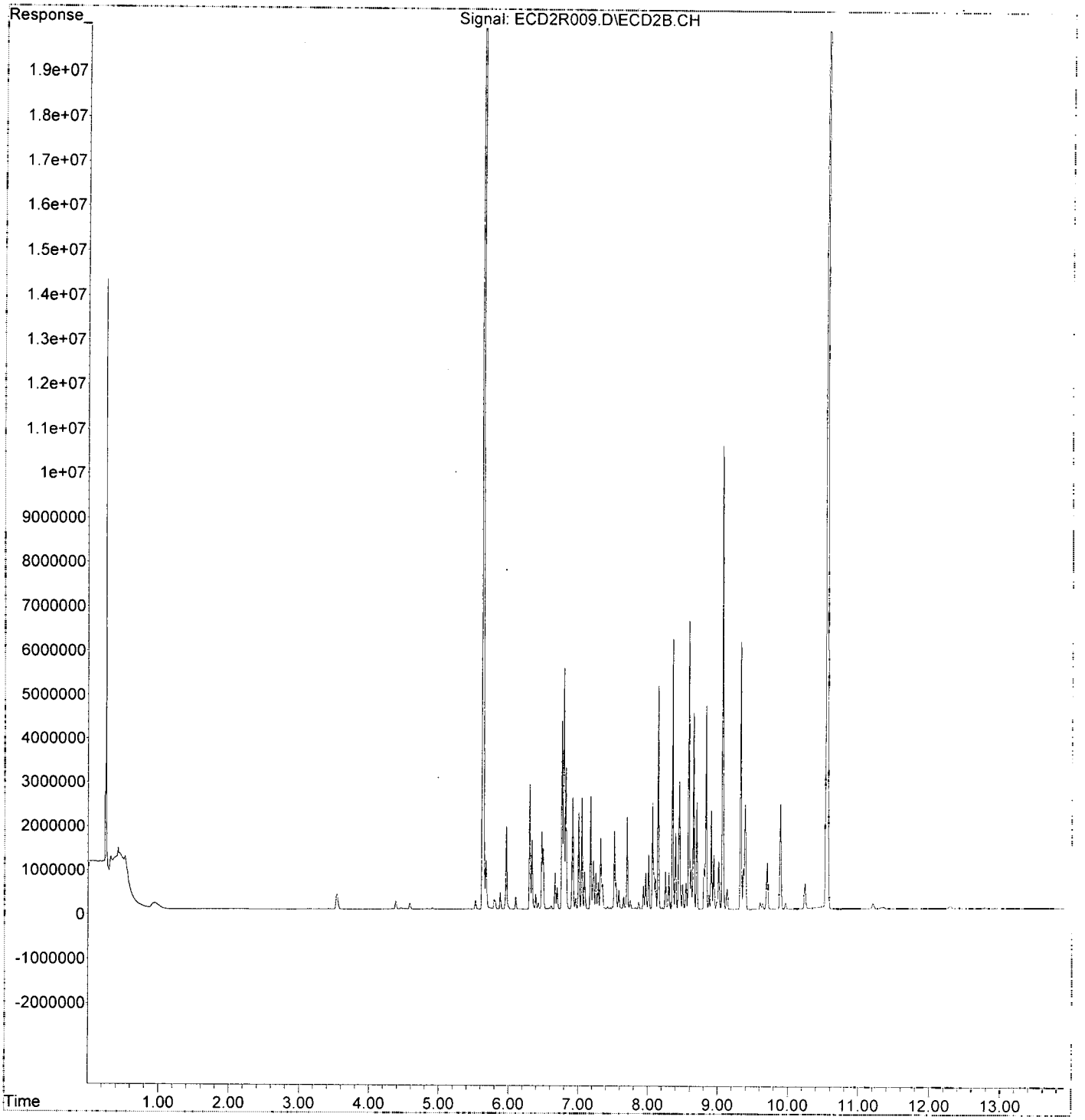
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

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

1/14/20

Quantitation Report (QT Reviewed)

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

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

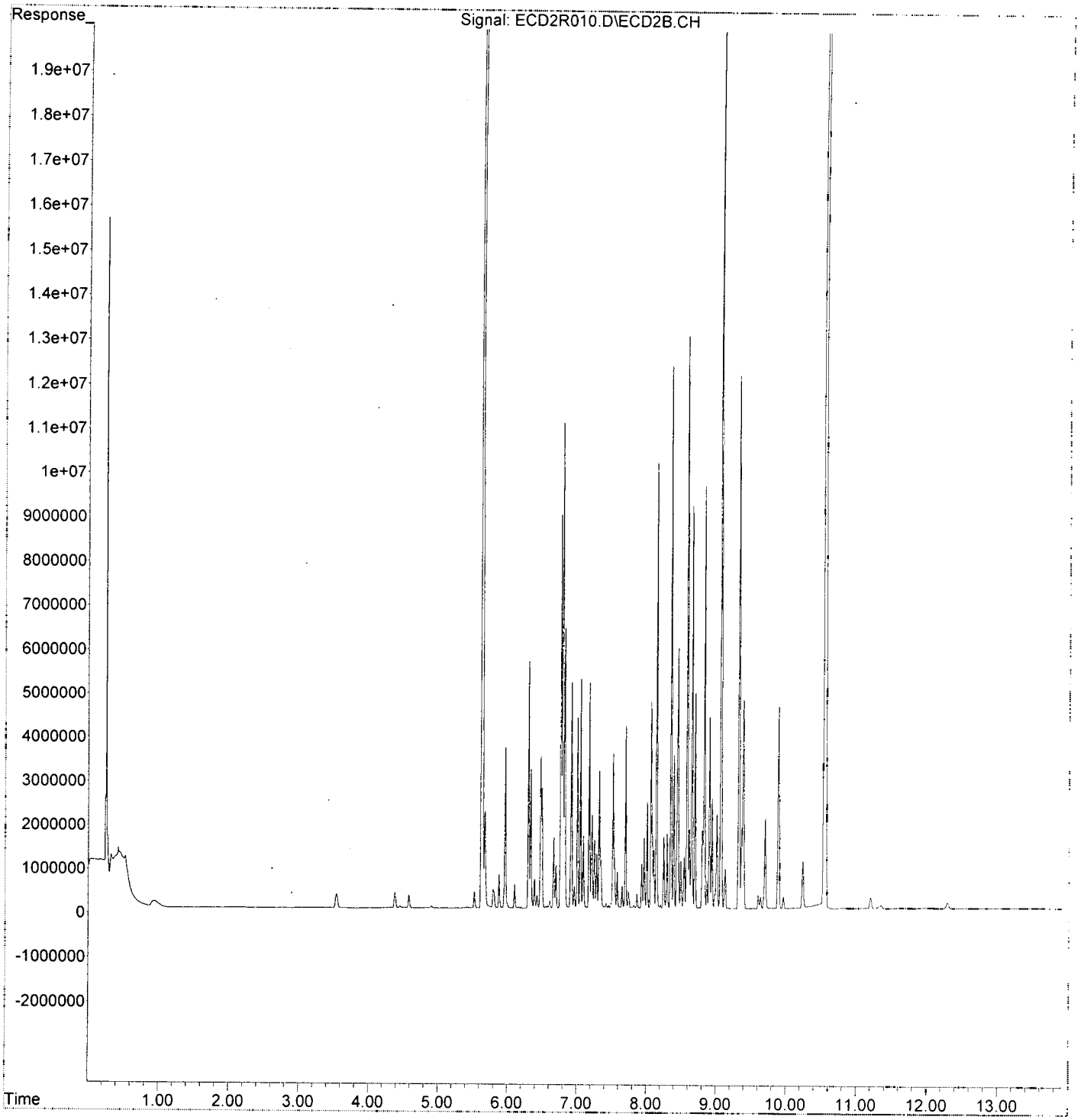
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

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

1/14/20

Quantitation Report (QT Reviewed)

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

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

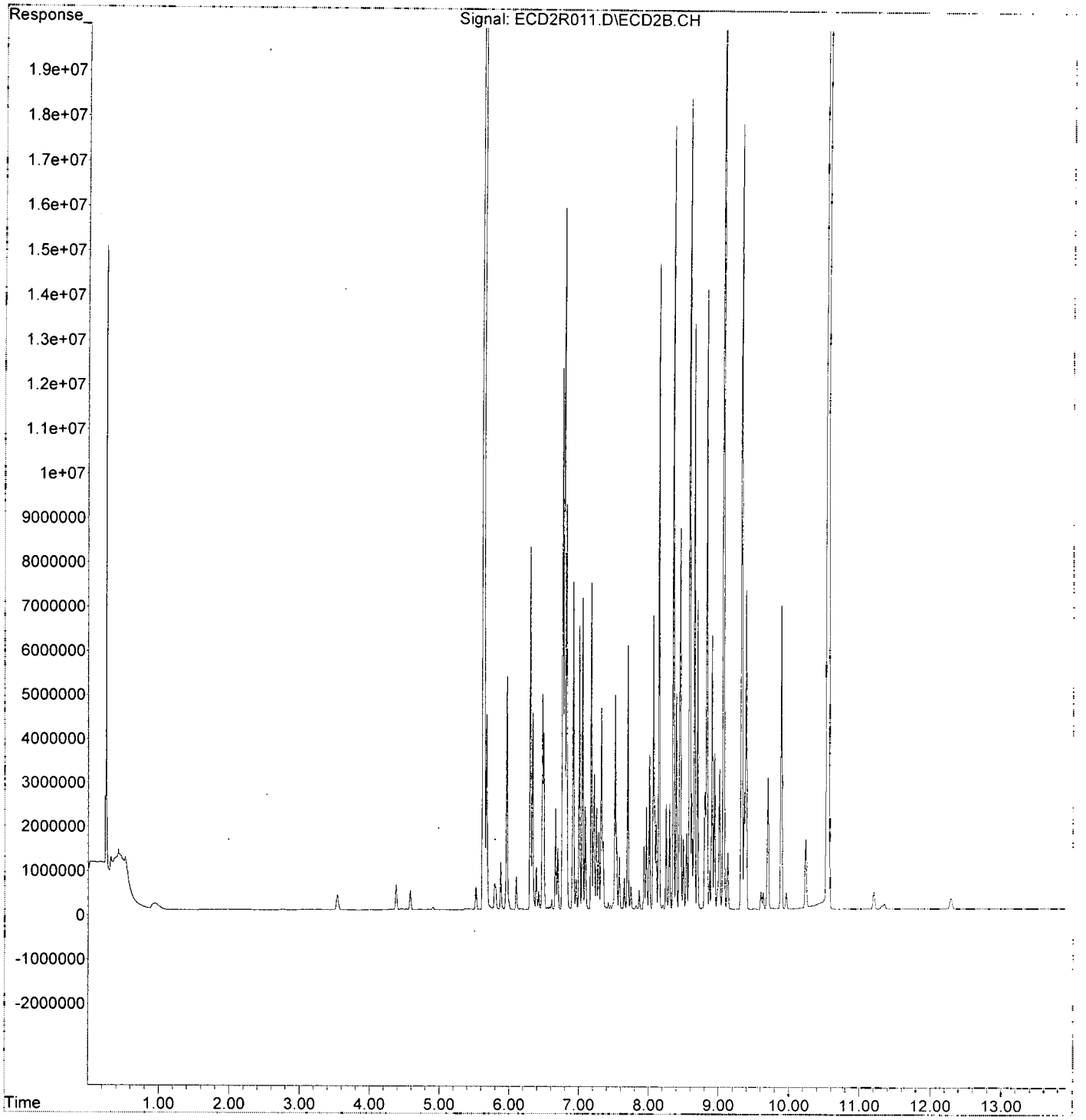
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.628	2095506	7.988 ng/ml
62)	S DCBP (S)	10.551	1070638	7.294 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.300	145279	16.355 ng/ml
3)	Aroclor 1016 (2)	6.790	249458	15.245 ng/ml
4)	Aroclor 1016 (3)	6.917	116035	15.783 ng/ml
5)	Aroclor 1016 (4)	7.004	117409	15.744 ng/ml
6)	Aroclor 1016 (5)	7.049	131375	15.922 ng/ml
7)	Aroclor 1016 (6)	7.174	135212	16.427 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D. ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D. ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D. ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D. ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D. ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D. ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D. ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D. ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D. ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D. ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D. ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D. ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D. ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D. ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D. ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D. ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D. ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D. ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D. ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D. ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D. ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D. ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D. ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D. ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D. ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D. ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D. ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/mld
41)	Aroclor 1260 (1)	8.144	236430	14.980 ng/ml
42)	Aroclor 1260 (2)	8.351	280991	14.356 ng/ml
43)	Aroclor 1260 (3)	8.582	282360	14.025 ng/ml
44)	Aroclor 1260 (4)	9.067	414593	13.397 ng/ml
45)	Aroclor 1260 (5)	9.325	257901	14.410 ng/ml
46)	Aroclor 1260 (6)	9.891	102375	14.840 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (QT Reviewed)

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

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

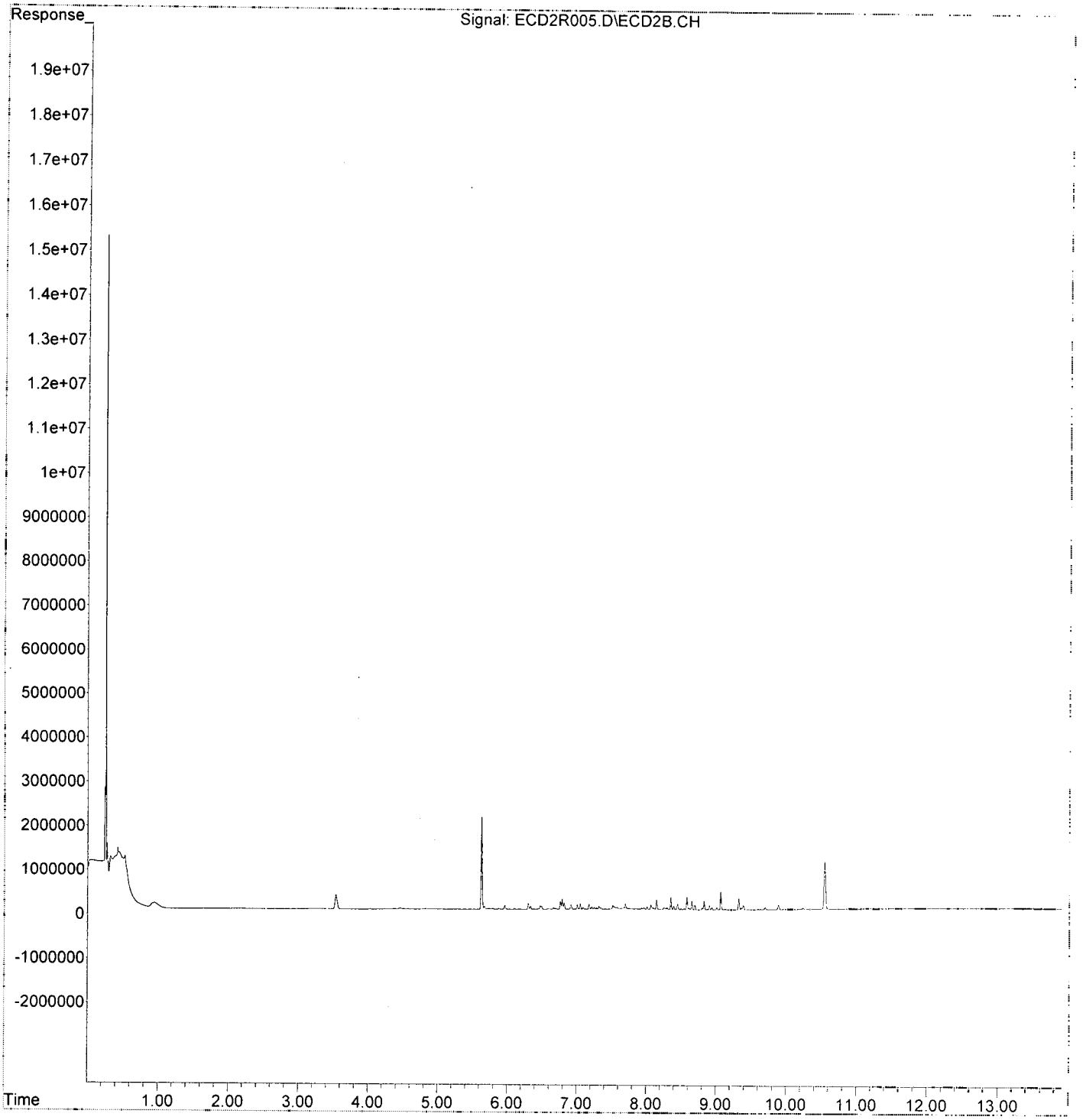
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.628	5312749	20.252 ng/ml
62)	S DCBP (S)	10.550	2755983	18.775 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.300	343821	38.705 ng/ml
3)	Aroclor 1016 (2)	6.790	597996	36.545 ng/ml
4)	Aroclor 1016 (3)	6.917	290069	39.380 ng/ml
5)	Aroclor 1016 (4)	7.004	278534	37.350 ng/ml
6)	Aroclor 1016 (5)	7.048	307931	37.320 ng/ml
7)	Aroclor 1016 (6)	7.174	315508	38.331 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D. ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D. ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D. ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D. ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D. ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D. ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D. ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D. ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D. ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D. ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D. ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D. ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D. ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D. ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D. ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D. ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D. ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D. ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D. ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D. ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D. ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D. ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D. ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D. ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D. ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D. ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D. ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/mld
41)	Aroclor 1260 (1)	8.144	540959	34.275 ng/ml
42)	Aroclor 1260 (2)	8.350	656411	33.535 ng/ml
43)	Aroclor 1260 (3)	8.582	674172	33.487 ng/ml
44)	Aroclor 1260 (4)	9.066	1047953	33.864 ng/ml
45)	Aroclor 1260 (5)	9.325	608364	33.992 ng/ml
46)	Aroclor 1260 (6)	9.891	261903	37.965 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (QT Reviewed)

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

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

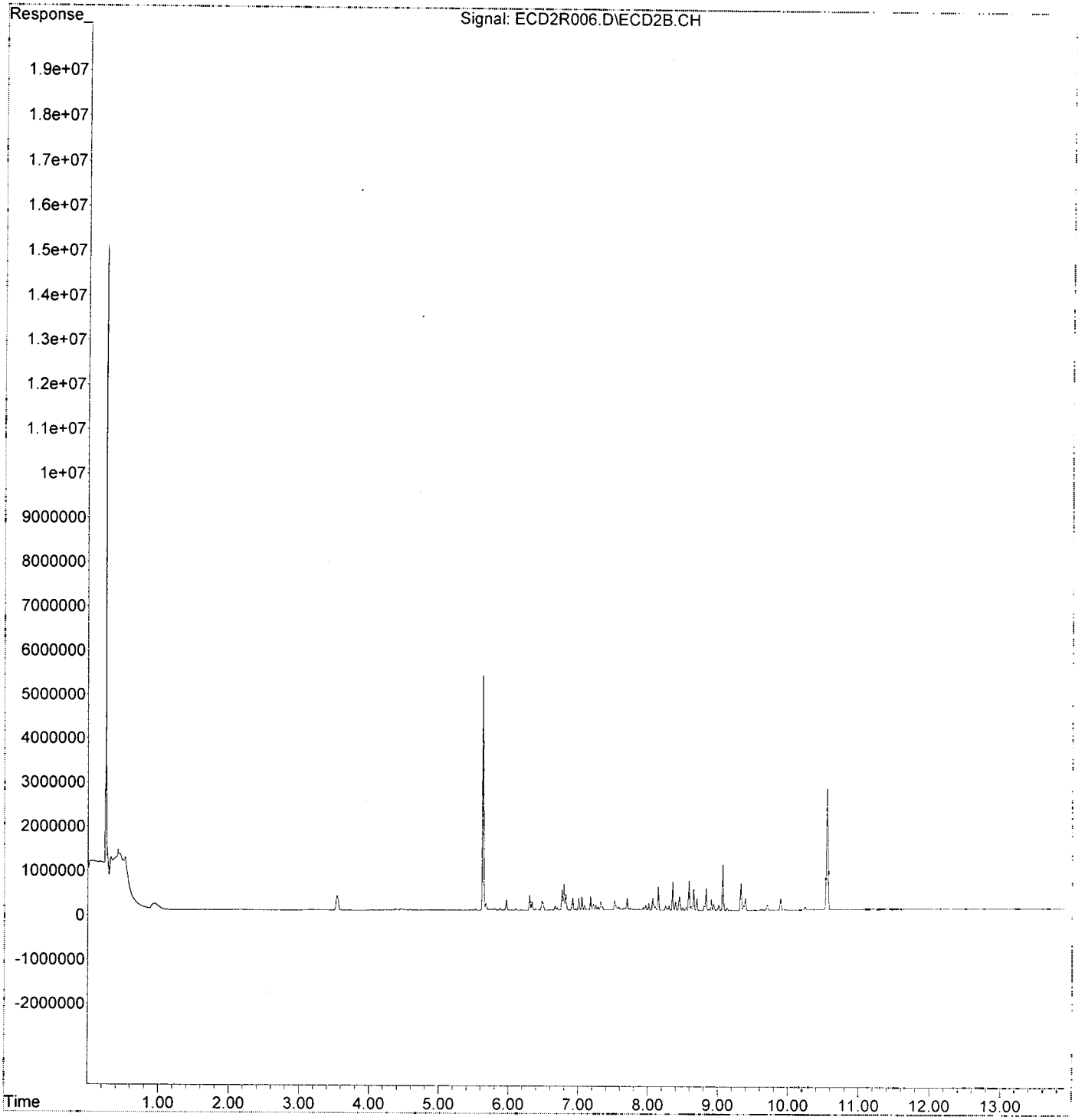
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.628	11084215	42.253	ng/ml
62)	S DCBP (S)	10.550	5396453	36.763	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	639728	72.016	ng/ml
3)	Aroclor 1016 (2)	6.790	1142660	69.831	ng/ml
4)	Aroclor 1016 (3)	6.917	536991	72.903	ng/ml
5)	Aroclor 1016 (4)	7.003	519409	69.651	ng/ml
6)	Aroclor 1016 (5)	7.048	569313	68.999	ng/ml
7)	Aroclor 1016 (6)	7.174	588135	71.453	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.143	1060465	67.191	ng/ml
42)	Aroclor 1260 (2)	8.351	1321460	67.512	ng/ml
43)	Aroclor 1260 (3)	8.582	1327338	65.931	ng/ml
44)	Aroclor 1260 (4)	9.066	2051063	66.278	ng/ml
45)	Aroclor 1260 (5)	9.325	1220407	68.190	ng/ml
46)	Aroclor 1260 (6)	9.890	478851	69.413	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

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

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

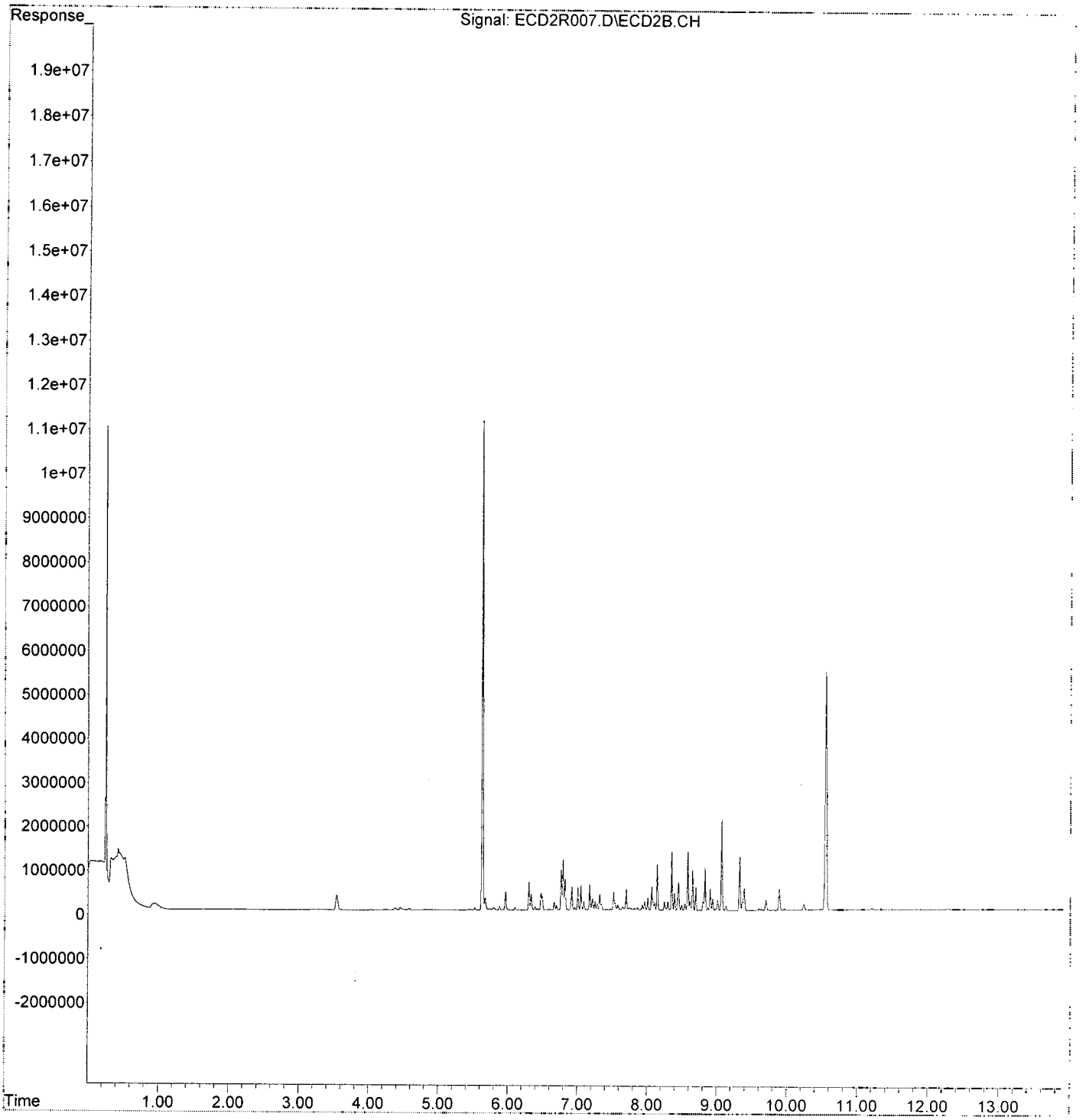
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.629	22681880	86.463	ng/ml
62)	S DCBP (S)	10.551	10891716	74.199	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.301	1190843	134.057	ng/ml
3)	Aroclor 1016 (2)	6.790	2334544	142.670	ng/ml
4)	Aroclor 1016 (3)	6.917	1067264	144.894	ng/ml
5)	Aroclor 1016 (4)	7.004	981904	131.670	ng/ml
6)	Aroclor 1016 (5)	7.049	1076394	130.455	ng/ml
7)	Aroclor 1016 (6)	7.174	1160064	140.937	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	2093221	132.626	ng/ml
42)	Aroclor 1260 (2)	8.351	2511397	128.304	ng/ml
43)	Aroclor 1260 (3)	8.582	2744238	136.311	ng/ml
44)	Aroclor 1260 (4)	9.066	4251874	137.396	ng/ml
45)	Aroclor 1260 (5)	9.325	2471890	138.116	ng/ml
46)	Aroclor 1260 (6)	9.891	1008936	146.253	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

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

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

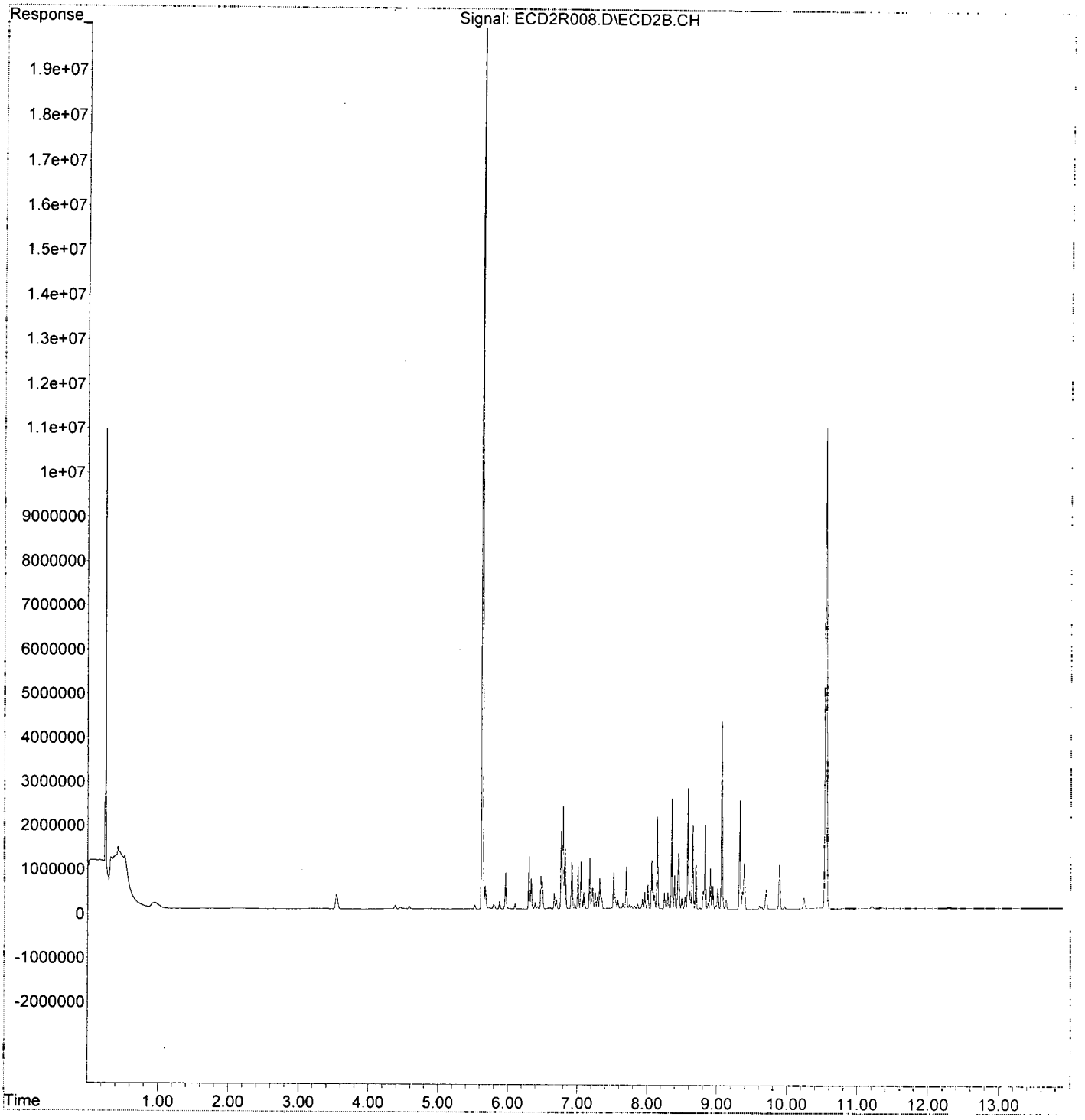
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.629	53881075	205.393	ng/ml
62)	S DCBP (S)	10.552	25218318	171.798	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	2835860	319.242	ng/ml
3)	Aroclor 1016 (2)	6.790	5484312	335.160	ng/ml
4)	Aroclor 1016 (3)	6.917	2538905	344.687	ng/ml
5)	Aroclor 1016 (4)	7.003	2203390	295.467	ng/ml
6)	Aroclor 1016 (5)	7.048	2536989	307.474	ng/ml
7)	Aroclor 1016 (6)	7.174	2573883	312.703	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	5080914	321.926	ng/ml
42)	Aroclor 1260 (2)	8.351	6152313	314.315	ng/ml
43)	Aroclor 1260 (3)	8.583	6540031	324.855	ng/ml
44)	Aroclor 1260 (4)	9.066	10496732	339.193	ng/ml
45)	Aroclor 1260 (5)	9.325	6070844	339.206	ng/ml
46)	Aroclor 1260 (6)	9.891	2392226	346.773	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

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

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

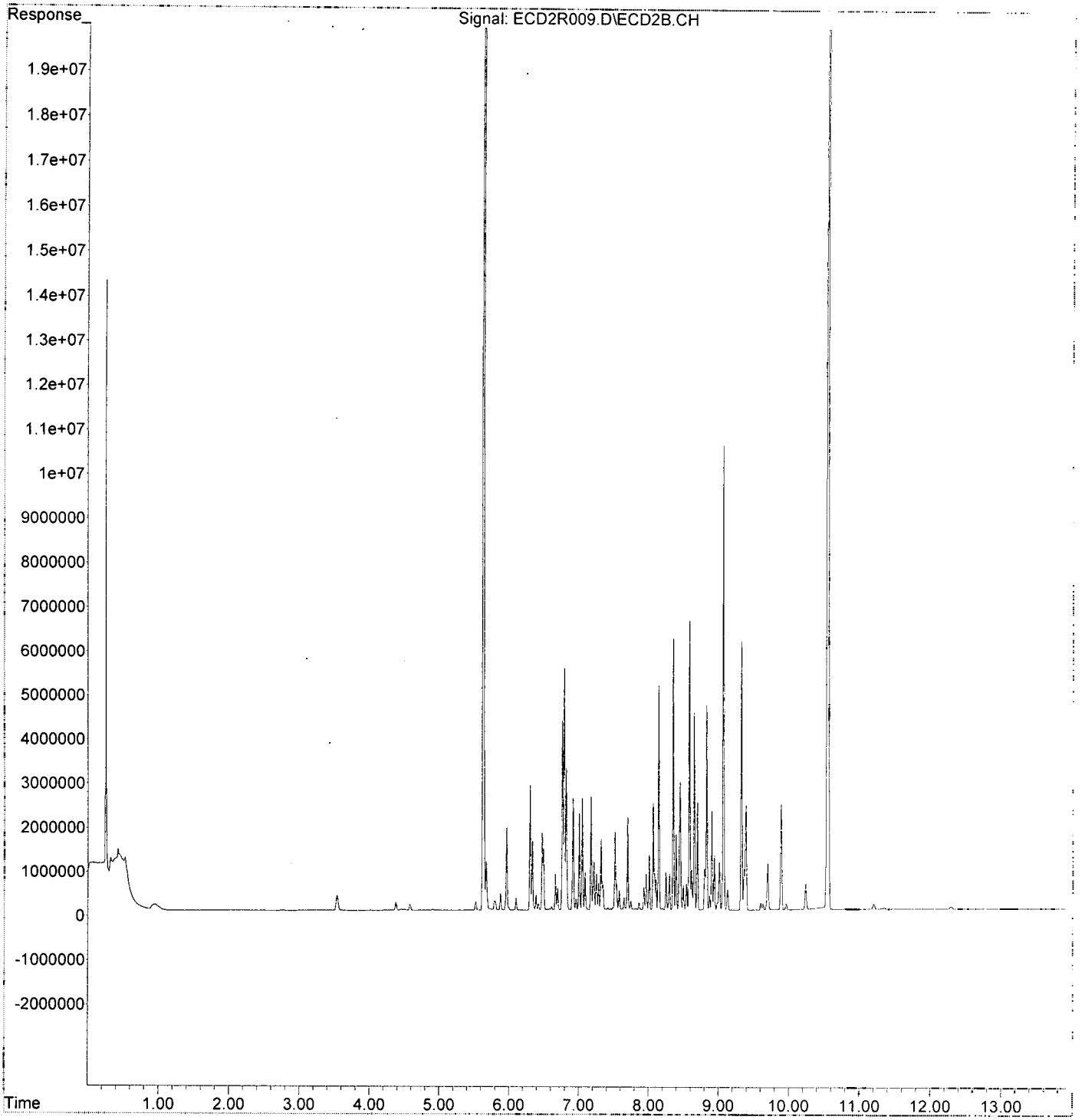
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

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

Quantitation Report (QT Reviewed)

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

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

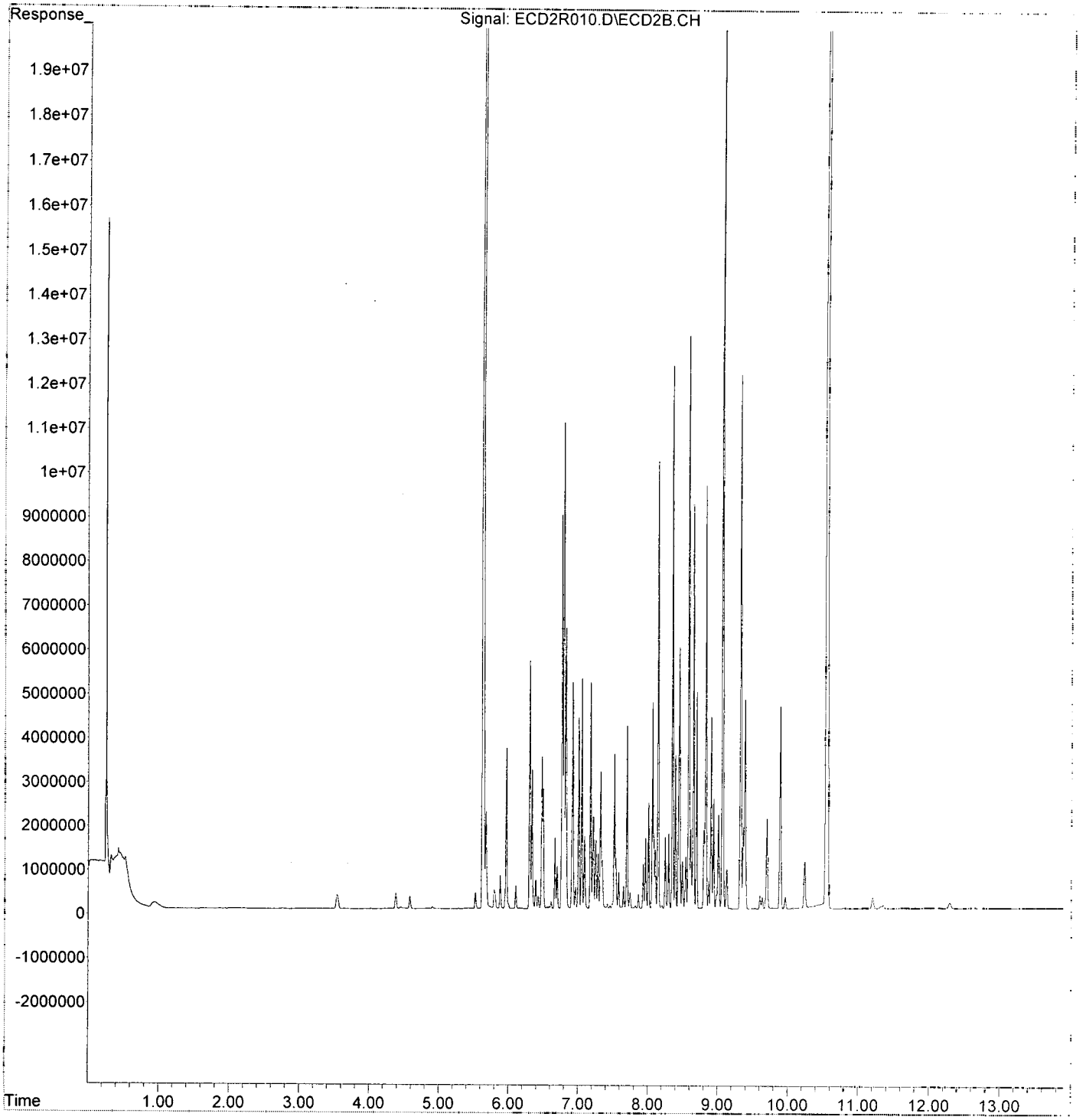
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

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

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.633	194842413	742.733	ng/ml
62) S	DCBP (S)	10.553	101081415	688.610	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.300	8229290	926.399	ng/ml
3)	Aroclor 1016 (2)	6.791	15844863	968.319	ng/ml
4)	Aroclor 1016 (3)	6.917	7443643	1010.563	ng/ml
5)	Aroclor 1016 (4)	7.004	6442401	863.904	ng/ml
6)	Aroclor 1016 (5)	7.049	7076827	857.687	ng/ml
7)	Aroclor 1016 (6)	7.174	7407214	899.907	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	8.144	14548054	921.762	ng/ml
42)	Aroclor 1260 (2)	8.351	17676726	903.084	ng/ml
43)	Aroclor 1260 (3)	8.583	18285536	908.274	ng/ml
44)	Aroclor 1260 (4)	9.067	32592843	1053.210	ng/ml
45)	Aroclor 1260 (5)	9.325	17701773	989.081	ng/ml
46)	Aroclor 1260 (6)	9.891	6885880	998.164	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

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

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

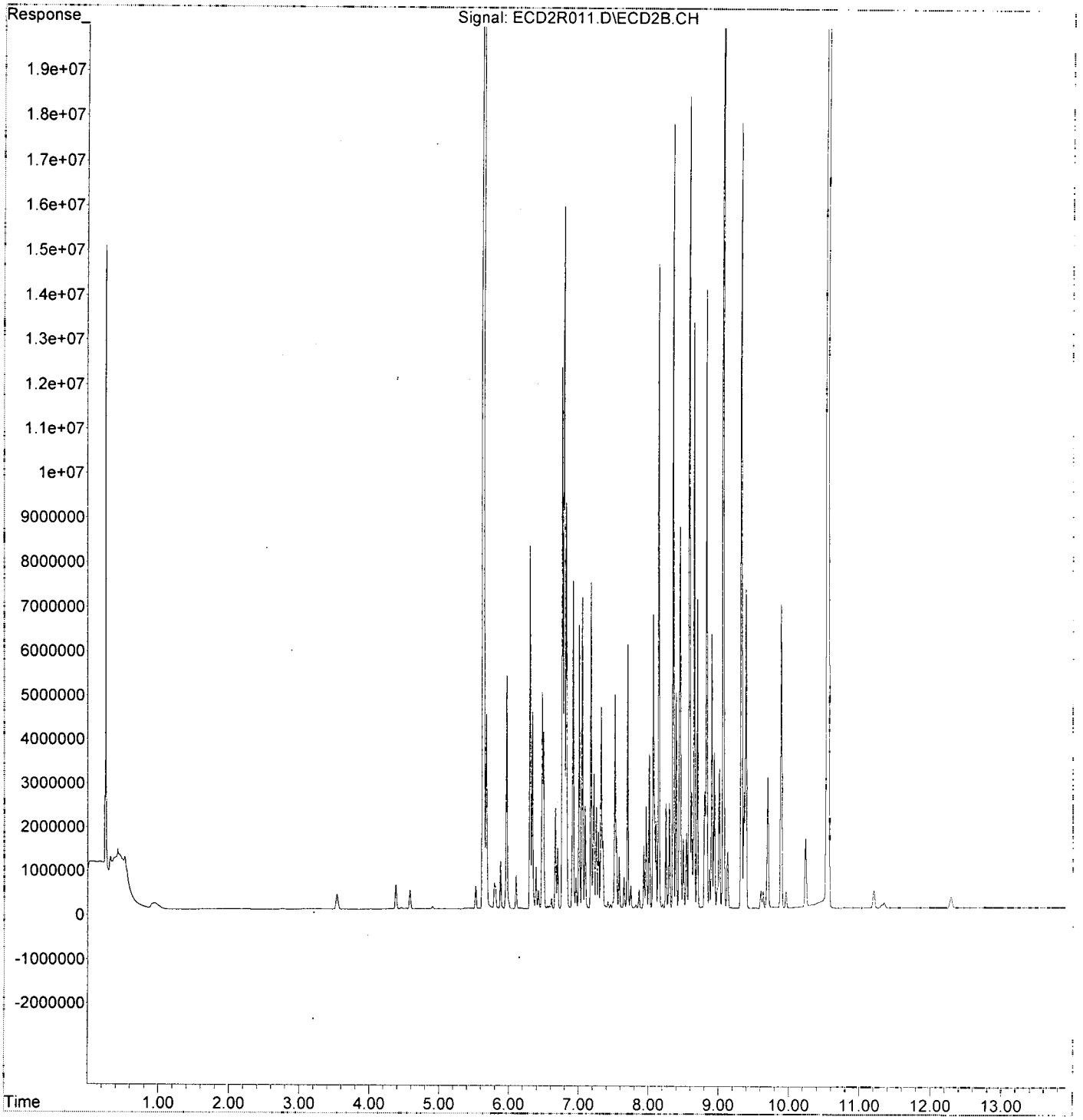
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

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



Quantitation Report (QT Reviewed)

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

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	5.806	868760	405.233	ng/ml
10)	Aroclor 1221 (2)	5.878	858489	392.721	ng/ml
11)	Aroclor 1221 (3)	5.965	2853506	403.334	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

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

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

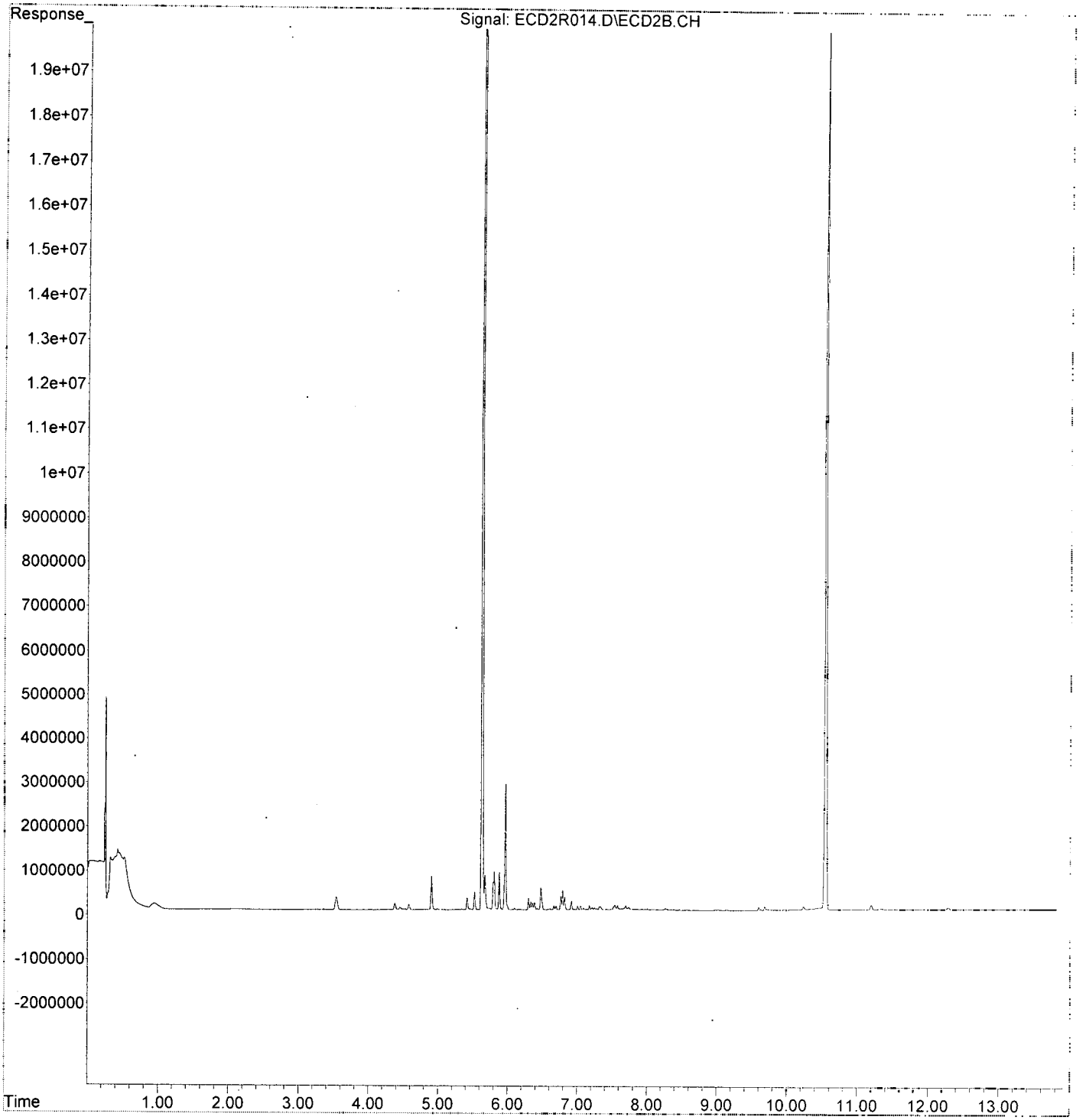
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

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

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	5.963	2284999	399.149	ng/ml
14)	Aroclor 1232 (2)	6.298	1301366	374.360	ng/ml
15)	Aroclor 1232 (3)	6.789	2445980	377.801	ng/ml
16)	Aroclor 1232 (4)	7.002	845919	354.297	ng/ml
17)	Aroclor 1232 (5)	7.047	1040422	380.779	ng/ml
18)	Aroclor 1232 (6)	7.172	1084837	365.755	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

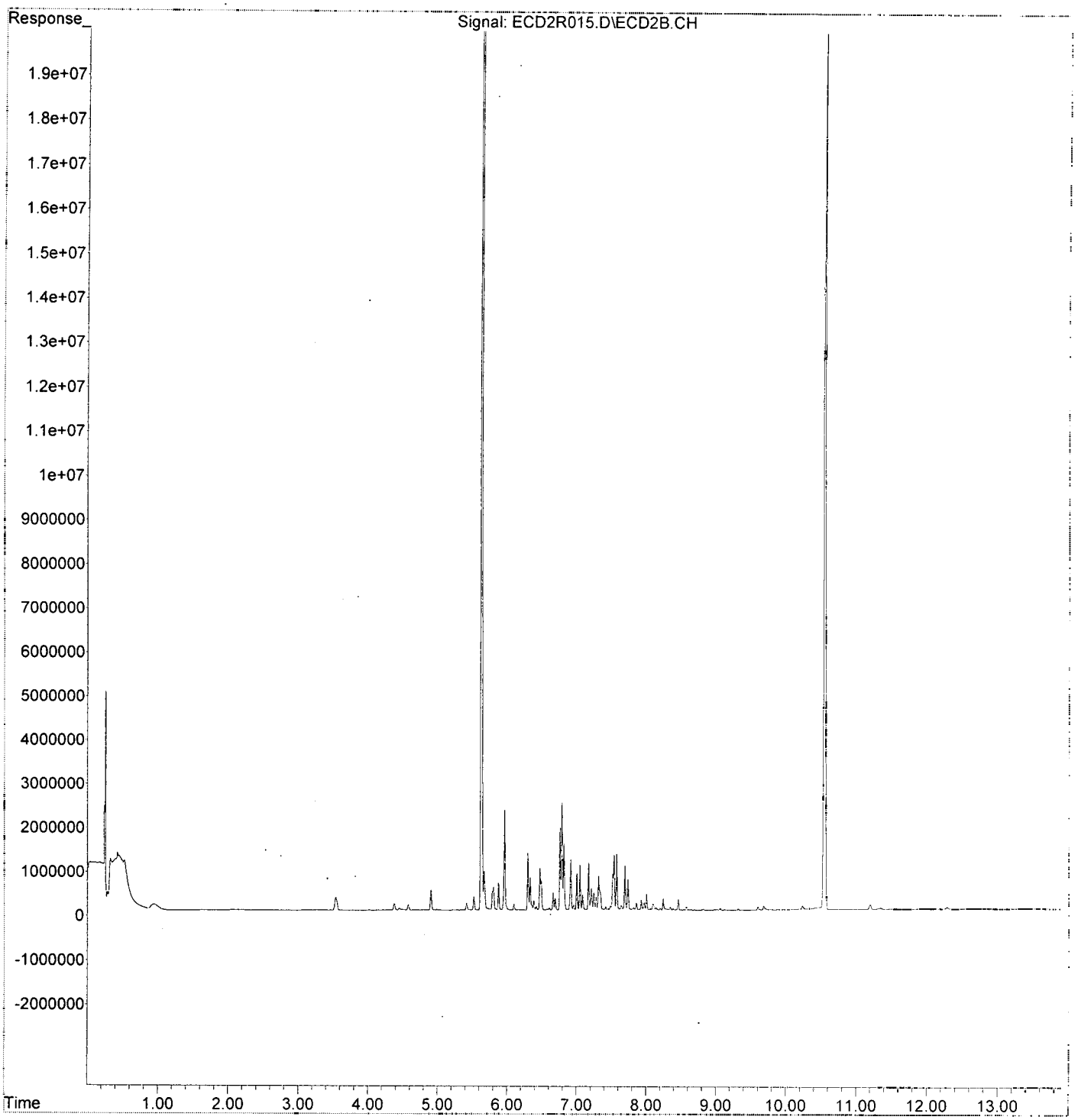
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:46
Operator : MJB / KAK
Sample : 0A13050-CALA
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:11:35 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:11:30 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	6.299	2273165	346.971	ng/ml
21)	Aroclor 1242 (2)	6.788	4411225	372.830	ng/ml
22)	Aroclor 1242 (3)	6.916	1915085	362.537	ng/ml
23)	Aroclor 1242 (4)	7.003	1651796	330.840	ng/ml
24)	Aroclor 1242 (5)	7.047	1996964	343.471	ng/ml
25)	Aroclor 1242 (6)	7.172	2085406	336.623	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:46
Operator : MJB / KAK
Sample : 0A13050-CALA
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:11:35 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:11:30 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

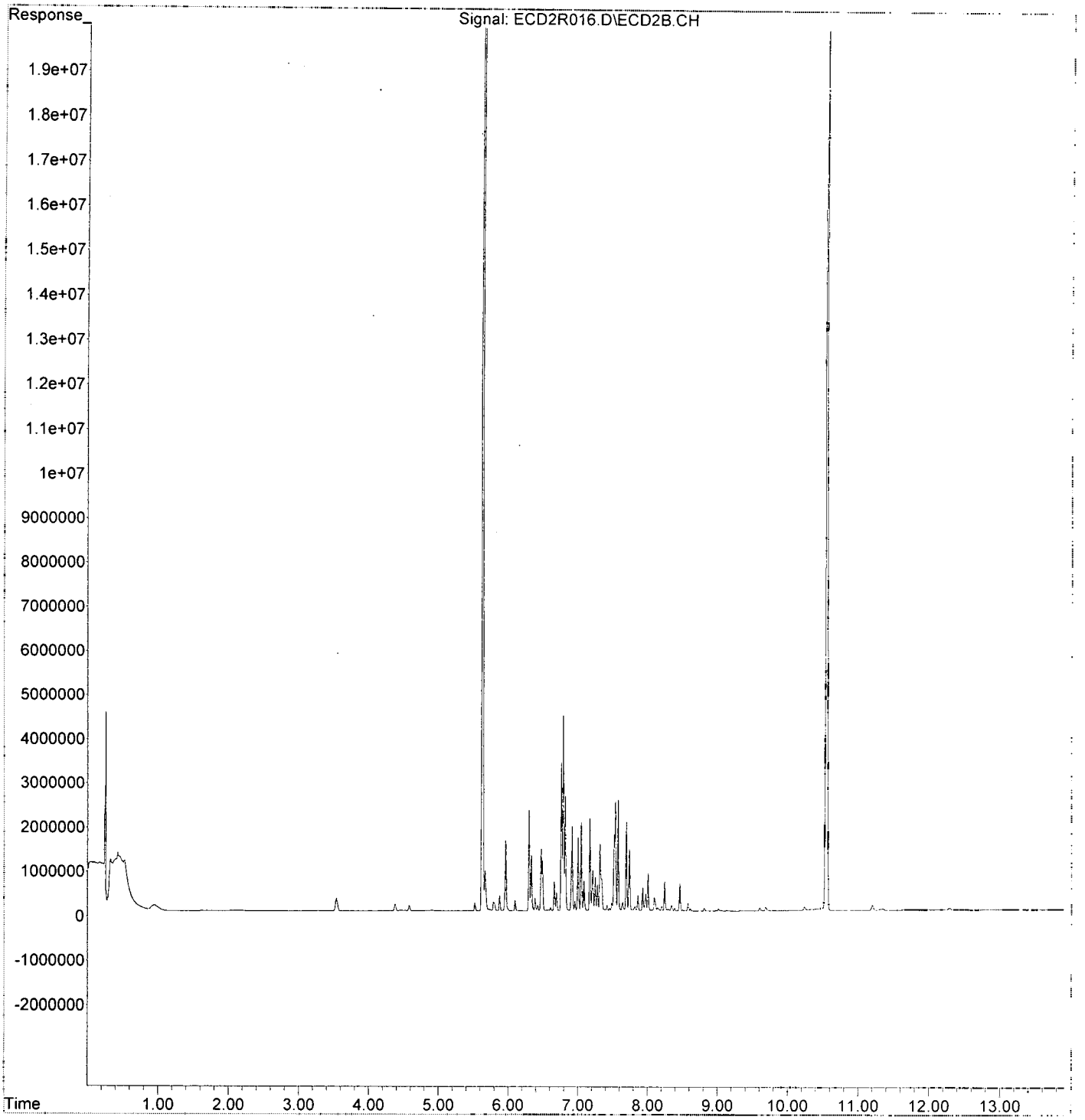
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:46
Operator : MJB / KAK
Sample : 0A13050-CALA
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:11:35 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:11:30 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

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

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	6.761	2581015	345.871	ng/ml
28)	Aroclor 1248 (2)	7.003	3179675	340.576	ng/ml
29)	Aroclor 1248 (3)	7.047	2967887	338.430	ng/ml
30)	Aroclor 1248 (4)	7.172	3647754	348.382	ng/ml
31)	Aroclor 1248 (5)	7.538	4450876	344.149	ng/ml
32)	Aroclor 1248 (6)	7.695	4070608	345.227	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

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

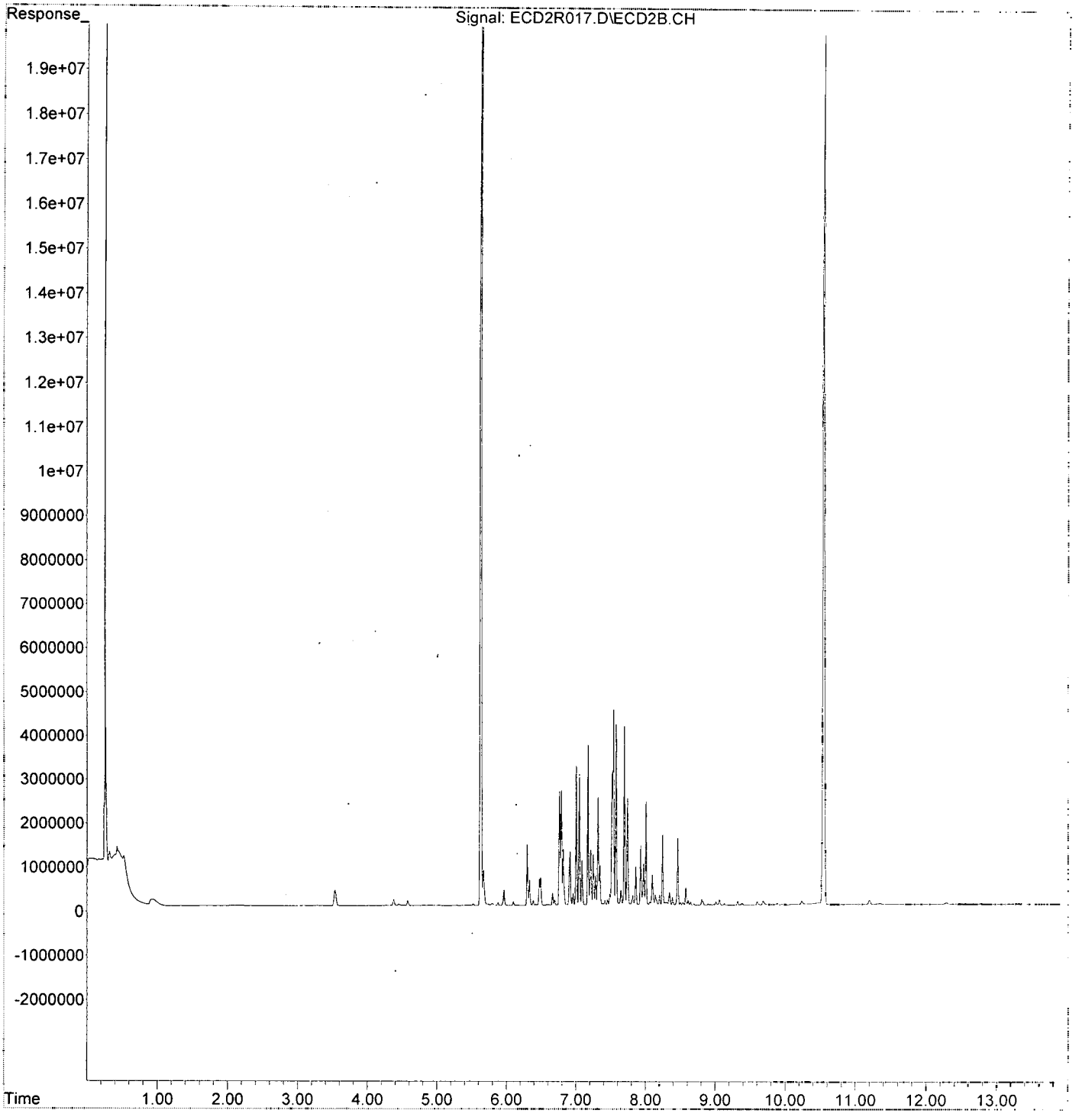
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

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



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	0.000	0	N.D.	ng/mld
62)	S DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	7.515	4236924	327.807	ng/ml
35)	Aroclor 1254 (2)	7.696	6954916	343.494	ng/ml
36)	Aroclor 1254 (3)	8.006	7587169	354.082	ng/ml
37)	Aroclor 1254 (4)	8.246	5458243	330.470	ng/ml
38)	Aroclor 1254 (5)	8.580	5624331	358.394	ng/ml
39)	Aroclor 1254 (6)	8.810	1763591	360.642	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

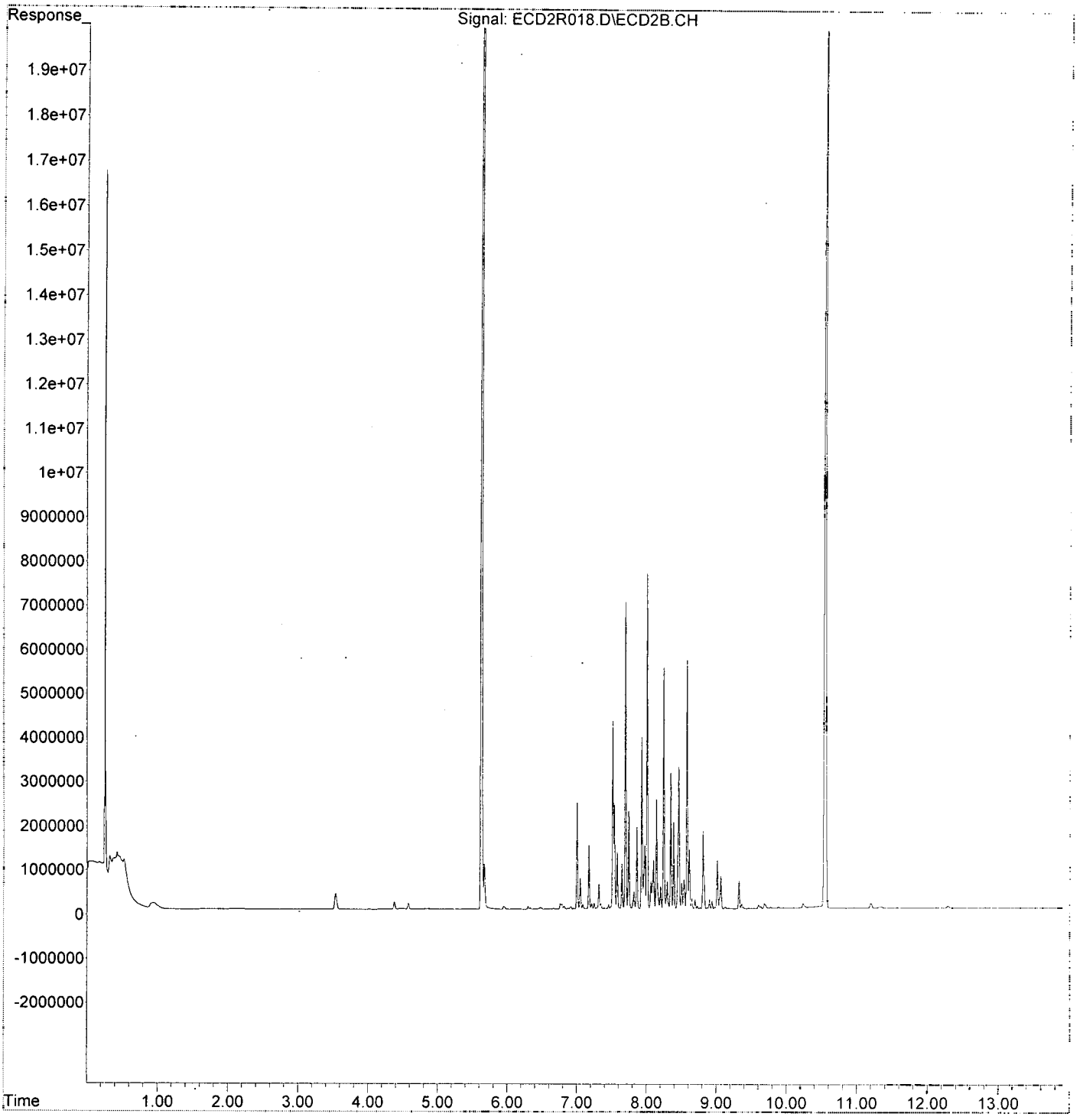
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE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

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.349	5285848	349.281	ng/ml
49)	Aroclor 1262 (2)	8.650	7638753	361.098	ng/ml
50)	Aroclor 1262 (3)	8.828	6402101	366.499	ng/ml
51)	Aroclor 1262 (4)	9.065	13762305	384.322	ng/ml
52)	Aroclor 1262 (5)	9.324	8209776	373.769	ng/ml
53)	Aroclor 1262 (6)	9.888	3600266	371.141	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

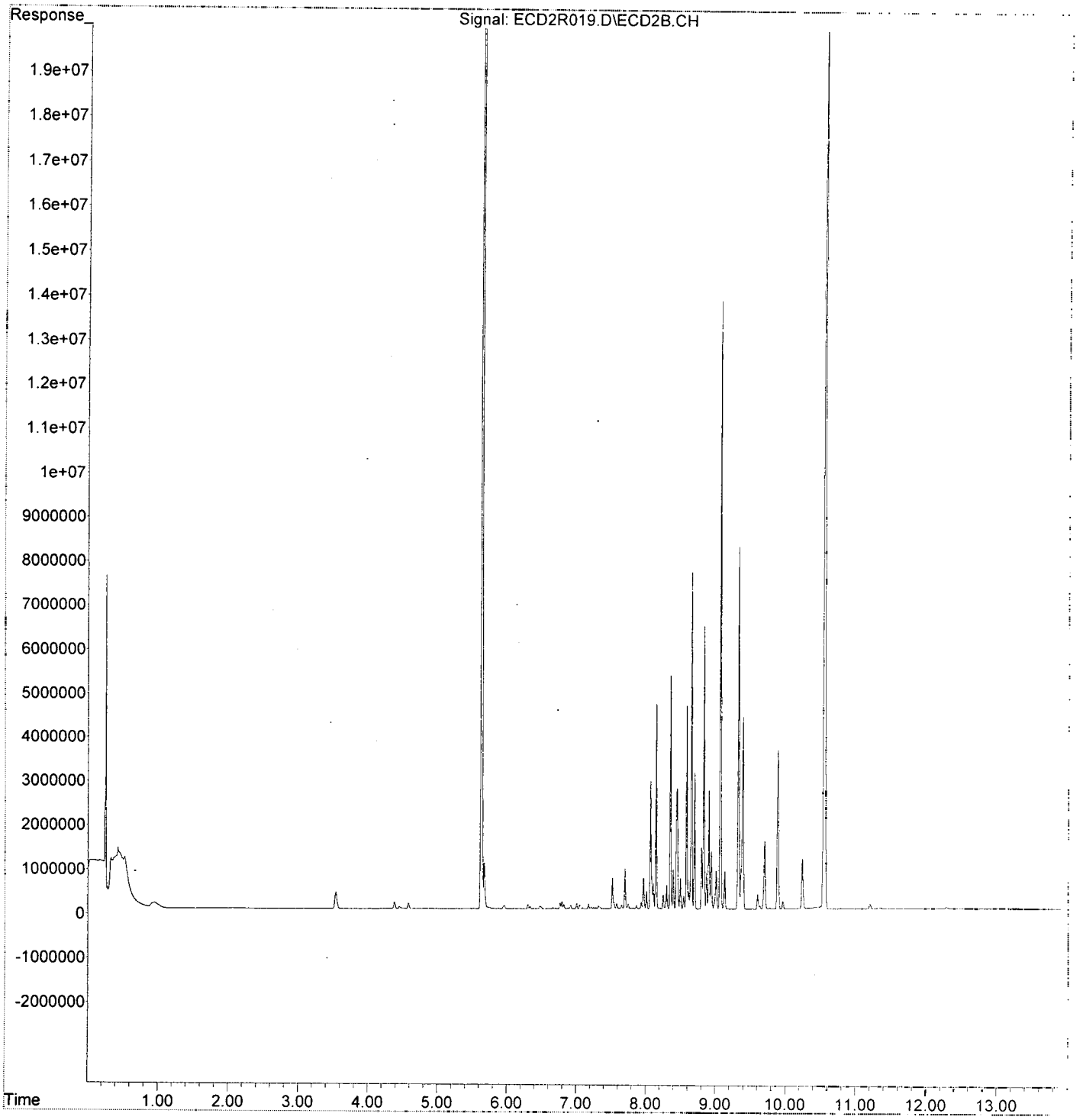
1/14/20

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	0.000	0	N.D.	ng/mld
62) S	DCBP (S)	0.000	0	N.D.	ng/mld
	Target Compounds				
2)	Aroclor 1016 (1)	0.000	0	N.D.	ng/mld
3)	Aroclor 1016 (2)	0.000	0	N.D.	ng/mld
4)	Aroclor 1016 (3)	0.000	0	N.D.	ng/mld
5)	Aroclor 1016 (4)	0.000	0	N.D.	ng/mld
6)	Aroclor 1016 (5)	0.000	0	N.D.	ng/mld
7)	Aroclor 1016 (6)	0.000	0	N.D.	ng/mld
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/mld
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/mld
10)	Aroclor 1221 (2)	0.000	0	N.D.	ng/mld
11)	Aroclor 1221 (3)	0.000	0	N.D.	ng/mld
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/mld
13)	Aroclor 1232 (1)	0.000	0	N.D.	ng/mld
14)	Aroclor 1232 (2)	0.000	0	N.D.	ng/mld
15)	Aroclor 1232 (3)	0.000	0	N.D.	ng/mld
16)	Aroclor 1232 (4)	0.000	0	N.D.	ng/mld
17)	Aroclor 1232 (5)	0.000	0	N.D.	ng/mld
18)	Aroclor 1232 (6)	0.000	0	N.D.	ng/mld
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/mld
20)	Aroclor 1242 (1)	0.000	0	N.D.	ng/mld
21)	Aroclor 1242 (2)	0.000	0	N.D.	ng/mld
22)	Aroclor 1242 (3)	0.000	0	N.D.	ng/mld
23)	Aroclor 1242 (4)	0.000	0	N.D.	ng/mld
24)	Aroclor 1242 (5)	0.000	0	N.D.	ng/mld
25)	Aroclor 1242 (6)	0.000	0	N.D.	ng/mld
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/mld
27)	Aroclor 1248 (1)	0.000	0	N.D.	ng/mld
28)	Aroclor 1248 (2)	0.000	0	N.D.	ng/mld
29)	Aroclor 1248 (3)	0.000	0	N.D.	ng/mld
30)	Aroclor 1248 (4)	0.000	0	N.D.	ng/mld
31)	Aroclor 1248 (5)	0.000	0	N.D.	ng/mld
32)	Aroclor 1248 (6)	0.000	0	N.D.	ng/mld
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/mld
34)	Aroclor 1254 (1)	0.000	0	N.D.	ng/mld
35)	Aroclor 1254 (2)	0.000	0	N.D.	ng/mld
36)	Aroclor 1254 (3)	0.000	0	N.D.	ng/mld
37)	Aroclor 1254 (4)	0.000	0	N.D.	ng/mld
38)	Aroclor 1254 (5)	0.000	0	N.D.	ng/mld
39)	Aroclor 1254 (6)	0.000	0	N.D.	ng/mld
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/mld
41)	Aroclor 1260 (1)	0.000	0	N.D.	ng/mld
42)	Aroclor 1260 (2)	0.000	0	N.D.	ng/mld
43)	Aroclor 1260 (3)	0.000	0	N.D.	ng/mld
44)	Aroclor 1260 (4)	0.000	0	N.D.	ng/mld
45)	Aroclor 1260 (5)	0.000	0	N.D.	ng/mld
46)	Aroclor 1260 (6)	0.000	0	N.D.	ng/mld
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	8.867	3116077	333.865	ng/ml
56)	Aroclor 1268 (2)	9.324	13883261	353.838	ng/ml
57)	Aroclor 1268 (3)	9.390	11258146	357.094	ng/ml
58)	Aroclor 1268 (4)	9.601	9626631	355.419	ng/ml
59)	Aroclor 1268 (5)	9.888	3911591	369.151	ng/ml
60)	Aroclor 1268 (6)	10.237	25307518	344.410	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

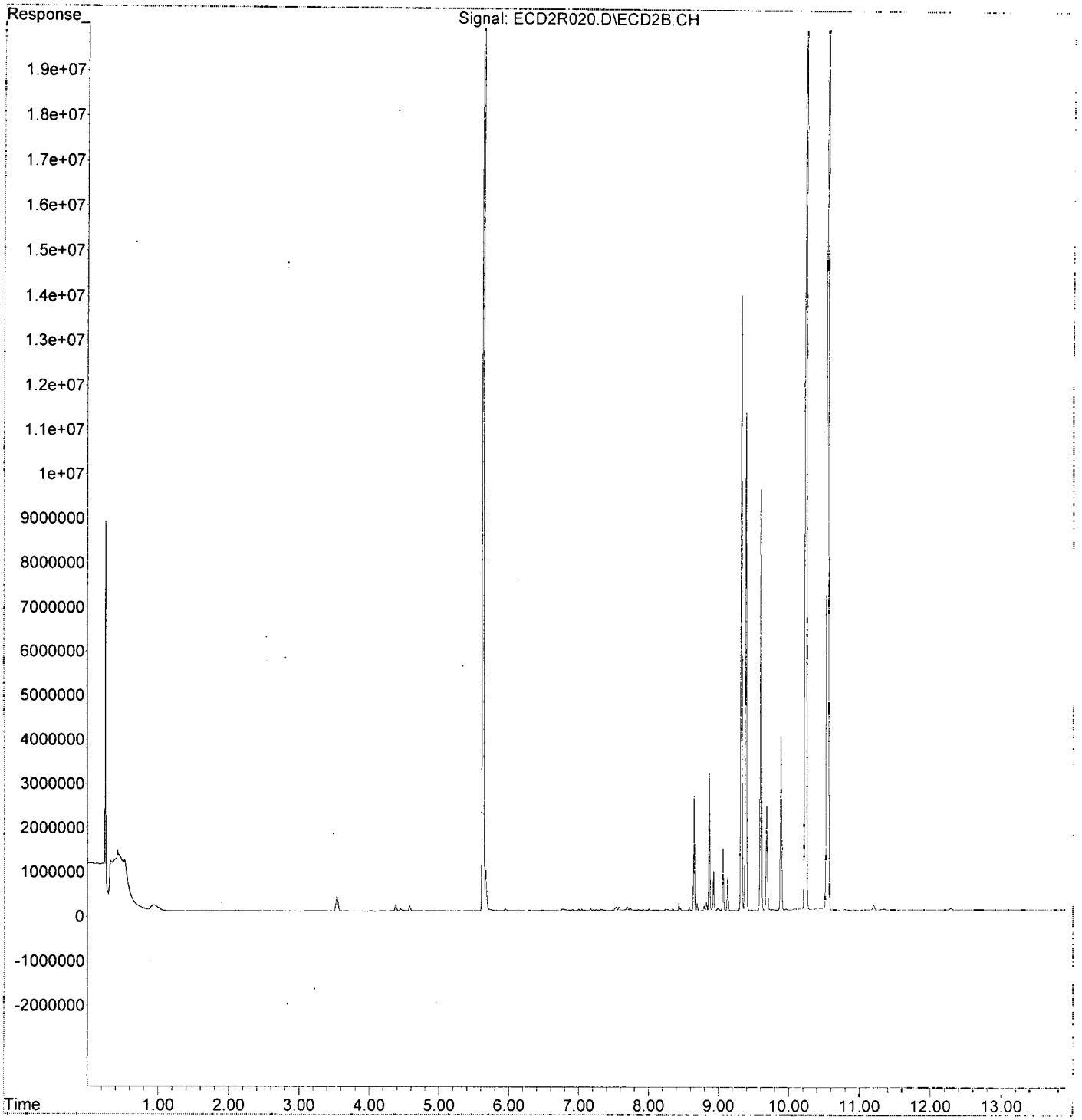
1/14/20

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Batch 0020105
Batch 0020205
Sequence 0B14020 (A0A1011-04RE1,05RE1,06RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020105 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020105-BLK1		QC	02/04/20 10:33	11	10				100					
	0020105-BS1		QC	02/04/20 10:33	10	10	A20A310		100	100					
	A0A1011-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.71	10				100	PDI-057SC-A-08-09-191023	MDL. Use Custom Spike.			
	0020105-DUP1		QC	02/04/20 10:33	10.73	10		A0A1011-03RE1		100					
	A0A1011-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.08	20				100	PDI-062SC-A-08-09-191023	MDL. Use Custom Spike.			
	A0A1011-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.08	10				100	PDI-062SC-A-09-10-191023	MDL. Use Custom Spike.			
	A0A1011-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.21	10				100	PDI-062SC-A-10-11-191023	MDL. Use Custom Spike.			
	0020105-MS1		QC	02/04/20 10:33	10.26	10	A20A310	A0A1011-06RE1	100	100					
	0020105-MSD1		QC	02/04/20 11:08	10.17	10	A20A310	A0A1011-06RE1	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A191263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

From 0020079 on 2/4/2020 by gwh

Prepared By: Date

M JB 2/17/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020105 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments (In / Out)	pH <2	pH other	pH >11
	0020105-BLK1		QC	02/04/20 10:33	11	5/10				100		1mL / 2mL			
	0020105-BS1		QC	02/04/20 10:33	10	5/10	A20A310		100	100		1mL / 2mL			
	A0A1011-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.71	5/10				100	PDI-057SC-A-08-09-191023	MDL. Use Custom Spike 1mL / 2mL			
	0020105-DUP1		QC	02/04/20 10:33	10.73	5/10		A0A1011-03RE1		100		1mL / 2mL			
	A0A1011-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.08	5/20				100	PDI-062SC-A-08-09-191023 *	MDL. Use Custom Spike 0.5mL / 2mL			
	A0A1011-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.08	5/10				100	PDI-062SC-A-09-10-191023	MDL. Use Custom Spike 1mL / 2mL			
	A0A1011-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	10.21	5/10				100	PDI-062SC-A-10-11-191023	MDL. Use Custom Spike 1mL / 2mL			
	0020105-MS1		QC	02/04/20 10:33	10.26	5/10	A20A310	A0A1011-06RE1	100	100		1mL / 2mL			
	0020105-MSD1		QC	02/04/20 11:08	10.17	5/10	A20A310	A0A1011-06RE1	100	100		1mL / 2mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

From 0020079 on 2/4/2020 by gwh

* = Staining during Hexane exchange.

Prepared By: [signature] Date: 2/4/20 – 2/5/20 cas

Reviewed By: [signature] Date: 02/05/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020079 (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	pH Other	pH >11
1	0020079-BLK1		QC	02/04/20 10:33	~~10~~ 11	5				100					
2	0020079-BS1		QC	02/04/20 10:33	10	5	A20A310		100	100					
3	A0A1011-03	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	~~10~~ 10.71	5				100	PDI-057SC-A-08-09-191023	MDL. Use Custom Spike. mud			
4	0020079-DUP1		QC	02/04/20 10:33	~~10~~ 10.73	5		A0A1011-03		100		mud			
5	A0A1011-04	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	~~10~~ 10.08	5				100	PDI-062SC-A-08-09-191023	MDL. Use Custom Spike. mud			
6	A0A1011-05	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	~~10~~ 10.08	5				100	PDI-062SC-A-09-10-191023	MDL. Use Custom Spike. sand, odor			
7	A0A1011-06	A	8081B 2,4+4,4-DDx Only (+Add)	02/04/20 10:33	~~10~~ 10.21	5				100	PDI-062SC-A-10-11-191023	MDL. Use Custom Spike. sand, odor			
8	0020079-MS1		QC	02/04/20 10:33	~~10~~ 10.26	5	A20A310	A0A1011-06	100	100		sand, odor			
9	0020079-MSD1		QC	02/04/20 11:08	~~10~~ 10.17	5	A20A310	A0A1011-06	100	100		Sand, odor			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

~~Std ID~~	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

JAG

Surrogate(s)

~~Std ID~~	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

JAG

Method 3546 digestion time and temperture achieved.
Initial: JAG

Witness: CAH 02/04/20

JAG 2/4/20
Prepared By: Date

CAH 02/04/20

Reviewed By: 2/4/20
Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020205-BLK1		QC	01/31/20 10:20	11	10				200					
	0020205-BS1		QC	01/31/20 10:20	10	10	A20A310		100	200					
	A0A0991-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.31	20				200	PDI-035SC-A-01-02-191010	MDL. Use Custom Spike.			
	0020205-DUP1		QC	01/31/20 10:20	10.14	20		A0A0991-01RE1		200					
	A0A0991-01RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.31	20				200	PDI-035SC-A-01-02-191010	MDL. Use Custom Spike.			
	0020205-DUP2		QC	01/31/20 10:20	10.14	20		A0A0991-01RE2		200					
	A0A0991-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.07	10				200	PDI-035SC-A-02-03-191010	MDL. Use Custom Spike.			
	A0A0991-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.63	10				200	PDI-041SC-A-03-04-191010	MDL. Use Custom Spike.			
	A0A0991-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.28	10				200	PDI-045SC-A-04-05-191010	MDL. Use Custom Spike.			
	A0A0991-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				200	PDI-045SC-A-05-06-191010	MDL. Use Custom Spike.			
	A0A0991-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.33	10				200	PDI-067SC-A-06-07-191010	MDL. Use Custom Spike.			
	A0A0994-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.56	10				200	PDI-066SC-A-07-08-191011	MDL. Use Custom Spike.			
	A0A0994-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.25	10				200	PDI-066SC-A-08-09-191011	MDL. Use Custom Spike.			
	A0A0996-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.75	10				200	PDI-015SC-A-09-10-191012	MDL. Use Custom Spike.			
	A0A0996-01RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.75	10				200	PDI-015SC-A-09-10-191012	MDL. Use Custom Spike.			
	A0A0996-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.54	10				200	PDI-037SC-A-04-05-191012	MDL. Use Custom Spike.			
	A0A0996-02RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.54	10				200	PDI-037SC-A-04-05-191012	MDL. Use Custom Spike.			
	A0A0996-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.22	10				200	PDI-037SC-A-05-06-191012	MDL. Use Custom Spike.			
	A0A0996-03RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.22	10				200	PDI-037SC-A-05-06-191012	MDL. Use Custom Spike.			
	A0A0996-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.39	10				200	PDI-037SC-A-06-07-191012	MDL. Use Custom Spike.			

Prepared By: Date

WB 2/26/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	A0A0996-04RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.39	10				200	PDI-037SC-A-06 -07-191012	MDL. Use Custom Spike.			
	A0A0996-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				200	PDI-074SC-A-06 -07-191012	MDL. Use Custom Spike.			
	A0A0996-05RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				200	PDI-074SC-A-06 -07-191012	MDL. Use Custom Spike.			
	A0A0996-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.43	10				200	PDI-074SC-A-07 -08-191012	MDL. Use Custom Spike.			
	A0A0996-06RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.43	10				200	PDI-074SC-A-07 -08-191012	MDL. Use Custom Spike.			
	A0A1002-01RE1	B	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-076SC-A-08 -09-191013	MDL. Use Custom Spike.			
	A0A1002-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-076SC-A-09 -10-191013	MDL. Use Custom Spike.			
	A0A1010-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-026SC-A-06 -07-191014	MDL. Use Custom Spike.			
	A0A1011-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-057SC-A-06 -07-191023	MDL. Use Custom Spike.			
	A0A1011-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.15	10				200	PDI-057SC-A-07 -08-191023	MDL. Use Custom Spike.			
	0020205-MS1		QC	01/31/20 10:20	10.09	10	A20A310	A0A1011-02RE1	100	200					
	0020205-MSD1		QC	01/31/20 10:20	10.07	10	A20A310	A0A1011-02RE1	100	200					
	0020205-MSD2		QC	01/31/20 10:20	10.07	10	A20A310	A0A1011-02RE1	100	200					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A191263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

From 0010982 on 2/6/2020 by gwh

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020205-BLK1		QC	01/31/20 10:20	11	10				200					
	0020205-BS1		QC	01/31/20 10:20	10	10	A20A310		100	200					
	A0A0991-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.31	20				200	PDI-035SC-A-01 -02-191010	MDL. Use Custom Spike.			
	0020205-DUP1		QC	01/31/20 10:20	10.14	20		A0A0991-01RE1		200					
	A0A0991-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.07	10				200	PDI-035SC-A-02 -03-191010	MDL. Use Custom Spike.			
	A0A0991-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.63	10				200	PDI-041SC-A-03 -04-191010	MDL. Use Custom Spike.			
	A0A0991-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.28	10				200	PDI-045SC-A-04 -05-191010	MDL. Use Custom Spike.			
	A0A0991-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				200	PDI-045SC-A-05 -06-191010	MDL. Use Custom Spike.			
	A0A0991-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.33	10				200	PDI-067SC-A-06 -07-191010	MDL. Use Custom Spike.			
	A0A0994-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.56	10				200	PDI-066SC-A-07 -08-191011	MDL. Use Custom Spike.			
	A0A0994-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.25	10				200	PDI-066SC-A-08 -09-191011	MDL. Use Custom Spike.			
	A0A0996-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.75	10				200	PDI-015SC-A-09 -10-191012	MDL. Use Custom Spike.			
10	A0A0996-01RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.75	10 ✓				200	PDI-015SC-A-09 -10-191012	MDL. Use Custom Spike. 1mL 2mL			
	A0A0996-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.54	10				200	PDI-037SC-A-04 -05-191012	MDL. Use Custom Spike.			
11	A0A0996-02RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.54	10 ✓				200	PDI-037SC-A-04 -05-191012	MDL. Use Custom Spike. 1mL 2mL			
	A0A0996-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.22	10				200	PDI-037SC-A-05 -06-191012	MDL. Use Custom Spike.			
12	A0A0996-03RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.22	10 ✓				200	PDI-037SC-A-05 -06-191012	MDL. Use Custom Spike. 1mL 2mL			
	A0A0996-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.39	10				200	PDI-037SC-A-06 -07-191012	MDL. Use Custom Spike.			
13	A0A0996-04RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.39	10 ✓				200	PDI-037SC-A-06 -07-191012	MDL. Use Custom Spike. 1mL 2mL			

IN

CAH 2/24/20
Prepared By: Date

AJT 2-25-20
Reviewed By: Date

CAH 2/25/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11
	A0A0996-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				200	PDI-074SC-A-06-07-191012	MDL. Use Custom Spike.			
14	A0A0996-05RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				200	PDI-074SC-A-06-07-191012	MDL. Use Custom Spike. 1mL 2mL			
	A0A0996-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.43	10				200	PDI-074SC-A-07-08-191012	MDL. Use Custom Spike.			
15	A0A0996-06RE2	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.43	10				200	PDI-074SC-A-07-08-191012	MDL. Use Custom Spike. 1mL 2mL			
	A0A1002-01RE1	B	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-076SC-A-08-09-191013	MDL. Use Custom Spike.			
	A0A1002-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-076SC-A-09-10-191013	MDL. Use Custom Spike.			
	A0A1010-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-026SC-A-06-07-191014	MDL. Use Custom Spike.			
	A0A1011-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	10				200	PDI-057SC-A-06-07-191023	MDL. Use Custom Spike.			
	A0A1011-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.15	10				200	PDI-057SC-A-07-08-191023	MDL. Use Custom Spike.			
	0020205-MS1		QC	01/31/20 10:20	10.09	10	A20A310	A0A1011-02RE1	100	200					
	0020205-MSD1		QC	01/31/20 10:20	10.07	10	A20A310	A0A1011-02RE1	100	200					
	0020205-MSD2		QC	01/31/20 10:20	10.07	10	A20A310	A0A1011-02RE1	100	200					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A191263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

From 0010982 on 2/6/2020 by gwh

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

200 ul for all 2/18/2020

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr	Sample ID	Extraction Comments	pH In	pH Out	pH <2	pH Other	pH >11
	0020205-BLK1		QC	01/31/20 10:20	11	5/10				100		1mL	2mL				
	0020205-BS1		QC	01/31/20 10:20	10	5/10	A20A310		100	100		1mL	2mL				
	A0A0991-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.31	5/20				100	PDI-035SC-A-01-02-191010	MDL. Use Custom Spike. 0.5mL #	2mL				
	0020205-DUP1		QC	01/31/20 10:20	10.14	5/20		A0A0991-01RE1		100		0.5mL #	2mL				
	A0A0991-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.07	5/10				100	PDI-035SC-A-02-03-191010	MDL. Use Custom Spike. 1mL	2mL				
	A0A0991-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.63	5/10				100	PDI-041SC-A-03-04-191010	MDL. Use Custom Spike. 1mL	2mL				
	A0A0991-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.28	5/10				100	PDI-045SC-A-04-05-191010	MDL. Use Custom Spike. 1mL	2mL				
	A0A0991-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	5/10				100	PDI-045SC-A-05-06-191010	MDL. Use Custom Spike. 1mL	2mL				
	A0A0991-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.33	5/10				100	PDI-067SC-A-06-07-191010	MDL. Use Custom Spike. 1mL	2mL				
	A0A0994-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.56	5/10				100	PDI-066SC-A-07-08-191011	MDL. Use Custom Spike. 1mL	2mL				
	A0A0994-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.25	5/10				100	PDI-066SC-A-08-09-191011	MDL. Use Custom Spike. 1mL	2mL				
	A0A0996-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.75	5/10				100	PDI-015SC-A-09-10-191012	MDL. Use Custom Spike. 1mL	2mL				
	A0A0996-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.54	5/10				100	PDI-037SC-A-04-05-191012	MDL. Use Custom Spike. 1mL	2mL				
	A0A0996-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.22	5/10				100	PDI-037SC-A-05-06-191012	MDL. Use Custom Spike. 1mL	2mL				
	A0A0996-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.39	5/10				100	PDI-037SC-A-06-07-191012	MDL. Use Custom Spike. 1mL	2mL				
	A0A0996-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	5/10				100	PDI-074SC-A-06-07-191012	MDL. Use Custom Spike. 1mL	2mL				
	A0A0996-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.43	5/10				100	PDI-074SC-A-07-08-191012	MDL. Use Custom Spike. 1mL	2mL				
	A0A1002-01RE1	B	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5/10				100	PDI-076SC-A-08-09-191013	MDL. Use Custom Spike. 1mL	2mL				
	A0A1002-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5/10				100	PDI-076SC-A-09-10-191013	MDL. Use Custom Spike. 1mL	2mL				

Prepared By: Date: 2/6/20

Reviewed By: cas Date: 02/10/2020

CAH 02/07/20 (mailing / solvent exchange)

JAG 2/10/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

In / Out

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH 2-10	pH >11
	A0A1010-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5/10				100	PDI-026SC-A-06-07-191014	MDL. Use Custom Spike. 1mL 2mL			
	A0A1011-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5/10				100	PDI-057SC-A-06-07-191023	MDL. Use Custom Spike. 1mL 2mL			
	A0A1011-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.15	5/10				100	PDI-057SC-A-07-08-191023	MDL. Use Custom Spike. 1mL 2mL			
	0020205-MS1		QC	01/31/20 10:20	10.09	5/10	A20A310	A0A1011-02RE1	100	100		1mL 2mL			
	~~0020205-MSD1~~		~~QC~~	~~01/31/20 10:20~~	~~10.07~~	~~5/10~~	~~A20A310~~	~~A0A1011-02RE1~~	~~100~~	~~100~~		~~1mL~~ # 2mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

From 0010982 on 2/6/2020 by gwh

= stacking on terbeap when concentrating

~~#~~ = Sample was Thrown out accidently before it was run on GPC. To be re prepared.

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0020205-BLK1		QC	01/31/20 10:20	11	10				100					
	0020205-BS1		QC	01/31/20 10:20	10	10	A20A310		100	100					
	A0A0991-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.31	20				100	PDI-035SC-A-01 -02-191010	MDL. Use Custom Spike.			
	0020205-DUP1		QC	01/31/20 10:20	10.14	20		A0A0991-01RE1		100					
	A0A0991-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.07	10				100	PDI-035SC-A-02 -03-191010	MDL. Use Custom Spike.			
	A0A0991-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.63	10				100	PDI-041SC-A-03 -04-191010	MDL. Use Custom Spike.			
	A0A0991-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.28	10				100	PDI-045SC-A-04 -05-191010	MDL. Use Custom Spike.			
	A0A0991-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				100	PDI-045SC-A-05 -06-191010	MDL. Use Custom Spike.			
	A0A0991-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.33	10				100	PDI-067SC-A-06 -07-191010	MDL. Use Custom Spike.			
	A0A0994-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.56	10				100	PDI-066SC-A-07 -08-191011	MDL. Use Custom Spike.			
	A0A0994-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.25	10				100	PDI-066SC-A-08 -09-191011	MDL. Use Custom Spike.			
	A0A0996-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.75	10				100	PDI-015SC-A-09 -10-191012	MDL. Use Custom Spike.			
	A0A0996-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.54	10				100	PDI-037SC-A-04 -05-191012	MDL. Use Custom Spike.			
	A0A0996-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.22	10				100	PDI-037SC-A-05 -06-191012	MDL. Use Custom Spike.			
	A0A0996-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.39	10				100	PDI-037SC-A-06 -07-191012	MDL. Use Custom Spike.			
	A0A0996-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.04	10				100	PDI-074SC-A-06 -07-191012	MDL. Use Custom Spike.			
	A0A0996-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.43	10				100	PDI-074SC-A-07 -08-191012	MDL. Use Custom Spike.			
	A0A1002-01RE1	B	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5				100	PDI-076SC-A-08 -09-191013	MDL. Use Custom Spike.			
	A0A1002-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5				100	PDI-076SC-A-09 -10-191013	MDL. Use Custom Spike.			

Prepared By: Date 2/7/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020205 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

In Out

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11
	A0A1010-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5				100	PDI-026SC-A-06-07-191014	MDL. Use Custom Spike.			
	A0A1011-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.59	5				100	PDI-057SC-A-06-07-191023	MDL. Use Custom Spike.			
	A0A1011-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	10.15	5				100	PDI-057SC-A-07-08-191023	MDL. Use Custom Spike.			
	0020205-MS1		QC	01/31/20 10:20	10.09	5	A20A310	A0A1011-02RE1	100	100					
	0020205-MSD1		QC	01/31/20 10:20	10.07	5	A20A310	A0A1011-02RE1	100	100					
	0020205-MSD2		QC	01/31/20 10:20	10.07	5	A20A310	A0A1011-02RE1	100	100		1mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A032	06/30/23	n-Hexane Lot# 197051

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

From 0010982 on 2/6/2020 by gwh

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010982 (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	pH other	pH >11
1	0010982-BLK1		QC	01/31/20 10:20	~~10~~ 1	5				100					
2	0010982-BS1		QC	01/31/20 10:20	10	5	A20A310		100	100					
3	A0A0991-01	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.31	5				100	PDI-035SC-A-01 -02-191010	MDL. Use Custom Spike. Sand, odor			
4	0010982-DUP1		QC	01/31/20 10:20	~~10~~ 10.14	5		A0A0991-01		100					
5	A0A0991-02	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.07	5				100	PDI-035SC-A-02 -03-191010	MDL. Use Custom Spike. sand, odor			
6	A0A0991-03	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.63	5				100	PDI-041SC-A-03 -04-191010	MDL. Use Custom Spike. Sand, odor			
7	A0A0991-04	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.28	5				100	PDI-045SC-A-04 -05-191010	MDL. Use Custom Spike. sand			
8	A0A0991-05	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.04	5				100	PDI-045SC-A-05 -06-191010	MDL. Use Custom Spike. sand, odor			
9	A0A0991-06	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.33	5				100	PDI-067SC-A-06 -07-191010	MDL. Use Custom Spike. mud			
10	A0A0994-01	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.56	5				100	PDI-066SC-A-07 -08-191011	MDL. Use Custom Spike. mud, odor			
11	A0A0994-02	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.25	5				100	PDI-066SC-A-08 -09-191011	MDL. Use Custom Spike. mud, odor			
12	A0A0996-01	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.75	5				100	PDI-015SC-A-09 -10-191012	MDL. Use Custom Spike. mud			
13	A0A0996-02	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.54	5				100	PDI-037SC-A-04 -05-191012	MDL. Use Custom Spike. sand, odor			
14	A0A0996-03	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.22	5				100	PDI-037SC-A-05 -06-191012	MDL. Use Custom Spike. Sand, odor			
15	A0A0996-04	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.39	5				100	PDI-037SC-A-06 -07-191012	MDL. Use Custom Spike. sand, odor			
16	A0A0996-05	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.04	5				100	PDI-074SC-A-06 -07-191012	MDL. Use Custom Spike. mud, odor			
17	A0A0996-06	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.43	5				100	PDI-074SC-A-07 -08-191012	MDL. Use Custom Spike. mud			
18	A0A1002-01	B	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.54	5				100	PDI-076SC-A-08 -09-191013	MDL. Use Custom Spike. mud			
19	A0A1002-02	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.59	5				100	PDI-076SC-A-09 -10-191013	MDL. Use Custom Spike. sand			

Prepared By: CAH 01/31/20
Date 1/31/20

Reviewed By: CAS 01/31/2020
Date 2/4/2020

CAS 01/31/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010982 (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	pH other	pH >11
20	A0A1010-01	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.59	5				100	PDI-026SC-A-06-07-191014	MDL. Use Custom Spike. mod. octv *			
21	A0A1011-01	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.59	5				100	PDI-057SC-A-06-07-191023	MDL. Use Custom Spike. mod *		P	#
22	A0A1011-02	A	8081B 2,4+4,4-DDx Only (+Add)	01/31/20 10:20	~~10~~ 10.15	5				100	PDI-057SC-A-07-08-191023	MDL. Use Custom Spike. mod *		#	
23	0010982-MS1		QC	01/31/20 10:20	~~10~~ 10.09	5	A20A310	A0A1011-02	100	100		mod *		#	
24	0010982-MSD1		QC	01/31/20 10:20	~~10~~ 10.07	5	A20A310	A0A1011-02	100	100		mod *		P #	

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

CAH

Surrogate(s)

Std ID	Exp. Date	Description
A20A238	07/17/20	8082 PCB Surrogate Spike

CAH

Method 3546 digestion time and temperture achieved.

Initial: CAH

Witness: AAG 1-31-20

* could have spiked the wrong surrogate (8270D PAH Only Surr (5 ppm) ~~of~~ . therfore spiked correct surrogate after so either possible wrong surr spiked plus correct surrogate or possible double spike of correct surrogate. - CAH 02/03/2020

* = possible double surrogate or possible 8270D LL PAH Only Surr (5 ppm) HPAL265 CAH 01/31/20

P = Partial dryout. 1/31/20 AAG

= 5 = staining on turbovap tube 1/31/20 AAG

Prepared By: AAG 1/31/20 Date

Reviewed By: JC 2/4/2020 Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B14020** Instrument: **DUALECD8**

Date: **02/14/20 10:35** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B14020-BKD1	Water	QC	QC				A20A019
2	0B14020-CCV1	Water	QC	QC				A19K133
3	0B14020-BKD2	Water	QC	QC				A20A019
4	0B14020-CCV2	Water	QC	QC				A19K133
5	0B14020-BKD3	Water	QC	QC				A20A019
6	0B14020-CCV3	Water	QC	QC				A19K133
7	0B14020-CCV4	Water	QC	QC				A19J408
8	0B14020-CCV5	Water	QC	QC				A19K310
9	0B14020-CCV6	Water	QC	QC				A19J420
10	0B14020-CCB1	Water	QC	QC				A20A395
11	A0B0130-02RE2	Sediment	8081B Pesticides		02/18/20	0020382		
12	0020382-DUP2	Sediment	QC	QC		0020382		
13	A0A1060-01RE3	Water	8081B Pesticides + Add		02/13/20	0020287		
14	A0A1060-01RE4	Water	8081B Pesticides + Add		02/13/20	0020287		
15	0020105-BLK1	Sediment	QC	QC		0020105		
16	0020105-BS1	Sediment	QC	QC		0020105		
17	A0A1011-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020105		
18	0020105-MS1	Sediment	QC	QC		0020105		
19	0020105-MSD1	Sediment	QC	QC		0020105		
20	0B14020-CCV7	Water	QC	QC				A19K134
21	0B14020-CCV8	Water	QC	QC				A19J409
22	0B14020-CCV9	Water	QC	QC				A19K311
23	0B14020-CCVA	Water	QC	QC				A19J421
24	0B14020-CCB2	Water	QC	QC				A20A395
25	A0B0061-01RE1	Water	8081B Pesticides + Add	Anchor QEA, LLC	02/17/20	0020287		
26	A0B0061-02RE1	Water	8081B Pesticides + Add	Anchor QEA, LLC	02/17/20	0020287		
27	A0B0061-03RE1	Water	8081B Pesticides + Add	Anchor QEA, LLC	02/17/20	0020287		
28	A0B0061-04RE1	Water	8081B Pesticides + Add (Diss)	Anchor QEA, LLC	02/17/20	0020287		
29	A0B0061-05RE1	Water	8081B Pesticides + Add (Diss)	Anchor QEA, LLC	02/17/20	0020287		
30	A0B0061-06RE1	Water	8081B Pesticides + Add (Diss)	Anchor QEA, LLC	02/17/20	0020287		
31	0B14020-CCVB	Water	QC	QC				A19K133
32	0B14020-CCVC	Water	QC	QC				A19J408
33	0B14020-CCB3	Water	QC	QC				A20A395
34	A0B0063-01RE1	Water	608 Pesticides (TTO)		02/17/20	0020287		
35	A0A1011-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020105		
36	0B14020-IBL1	Water	QC	QC				
37	0020105-DUP1	Sediment	QC	QC		0020105		
38	0B14020-IBL2	Water	QC	QC				
39	A0A1011-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020105		
40	0B14020-IBL3	Water	QC	QC				
41	A0A1011-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020105		
42	0B14020-IBL4	Water	QC	QC				
43	0B14020-CCVD	Water	QC	QC				A19K134
44	0B14020-CCVE	Water	QC	QC				A19J409
45	0B14020-CCB4	Water	QC	QC				A20A395

Comments:

Data Entered By: MJB 2/14/20

Data Reviewed By: MJ 2/18/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 11:19
Operator : MJB
Sample : 0B14020-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 11:34:09 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT2.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	7.429	19439497	NoCal	ng/mL
2)	Endrin	7.784	1515543137	NoCal	ng/mL
3)	4,4'-DDD	7.848	125895496	NoCal	ng/mL
4)	4,4'-DDT	8.042	2561509549	NoCal	ng/mL
5)	Endrin Aldehyde	8.232	99762707	NoCal	ng/mL
6)	Endrin Ketone	8.724	121135553	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.273	21966919	NoCal	ng/mL
9)	Endrin [2C]	8.642	1446699393	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.689	125896410	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.027	69056618	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.914	2722258014	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.617	118535968	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

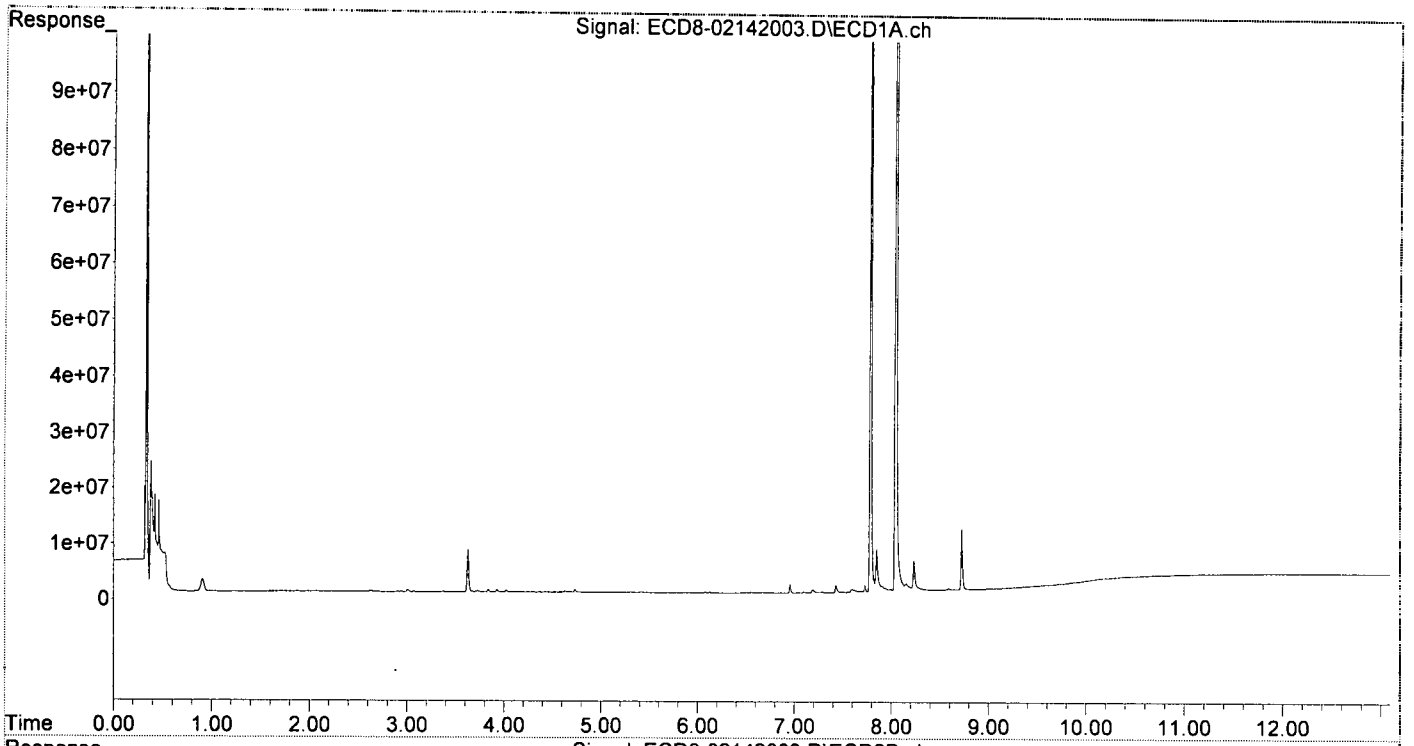
CCV failed.
maintenance performed.

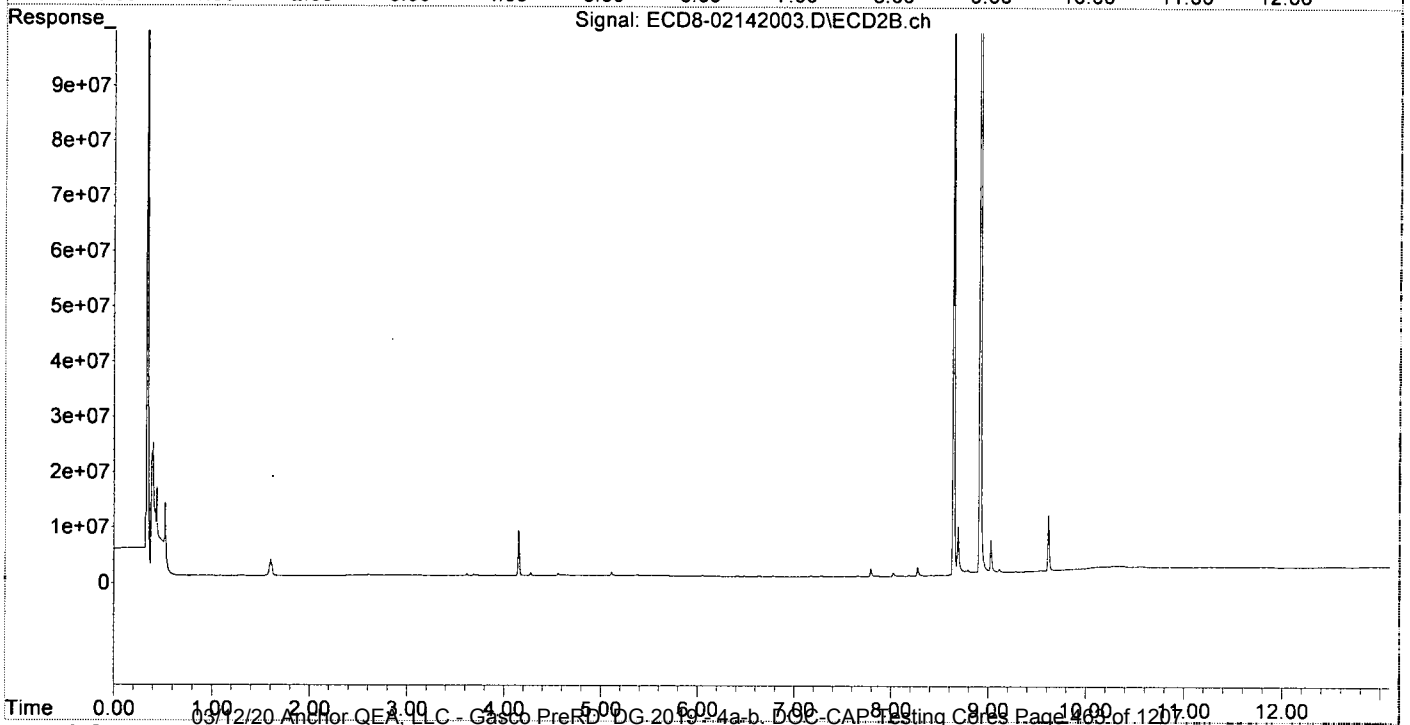
MJB
2/14/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 11:19
Operator : MJB
Sample : 0B14020-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 11:34:09 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT2.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 11:36
Operator : MJB
Sample : 0B14020-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 11:51:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT2.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q-14

MJB 2/14/20

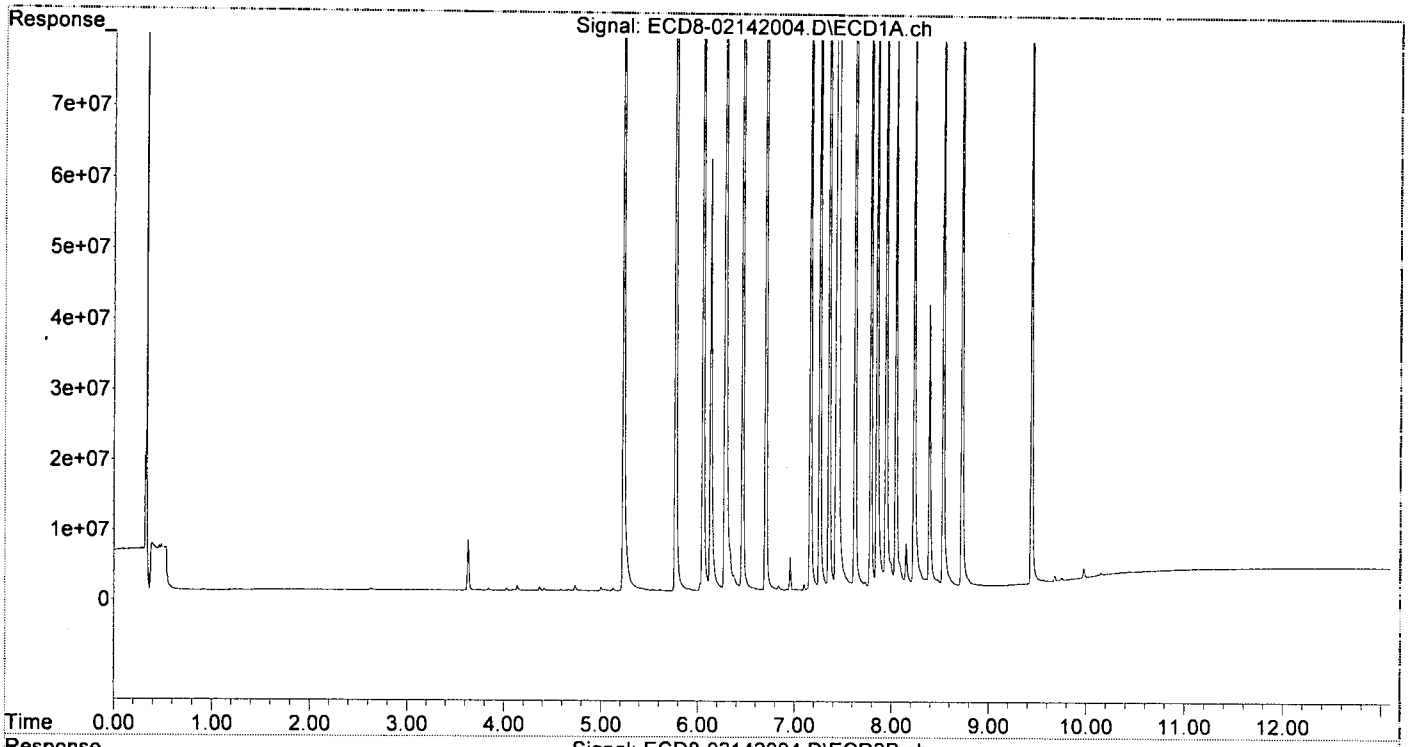
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.230	5.921	147.7E6	161.3E6	42.251	46.752	
22)	S DCBP (S)	9.438	10.464	119.0E6	110.0E6	45.327	51.213	
	Target Compounds							
2)	a-BHC	5.768	6.523	220.7E6	241.5E6	46.705	51.522	
3)	g-BHC	6.051	6.841	189.2E6	205.0E6	45.445	48.818	
4)	b-BHC	6.130	6.908	61608929	76399061	35.374	44.007	
5)	Heptachlor	6.461	7.214	183.3E6	199.9E6	44.590	47.482	
6)	d-BHC	6.280	7.162	119.8E6	173.3E6	33.401	45.286	#
7)	Aldrin	6.700	7.479	188.4E6	195.0E6	46.615	48.631	
8)	Heptachlo...	7.161	7.916	166.9E6	178.6E6	45.207	49.759	
9)	trans-Chl...	7.258	8.056	167.3E6	173.5E6	44.486	46.648	
10)	cis-Chlor...	7.355	8.164	159.5E6	169.1E6	43.437	47.992	
11)	Endosulfa...	7.449	8.214	166.9E6	155.3E6	48.105	46.991	
12)	4,4'-DDE	7.428	8.273	139.6E6	159.7E6	42.028	46.961	
13)	Dieldrin	7.622	8.415	172.1E6	180.8E6	45.140	48.294	
14)	Endrin	7.785	8.642	141.8E6	143.1E6	43.448	46.346	
15)	4,4'-DDD	7.848	8.688	106.0E6	127.8E6	41.663	48.479	
16)	Endosulfa...	7.942	8.790	117.7E6	137.9E6	39.355	48.087	
17)	4,4'-DDT	8.044	8.914	111.4E6	126.5E6	41.424	46.134	
18)	Endrin Al...	8.232	9.027	107.8E6	115.8E6	40.962	43.794	
19)	Endosulfa...	8.531	9.217	125.4E6	133.6E6	43.801	49.016	
20)	Methoxychlor	8.390	9.394	40342042	56311798	33.433	47.144	#
21)	Endrin Ke...	8.725	9.617	147.2E6	157.9E6	42.599	51.008	
23)	Hexachlor...	3.012	3.622	61014	14374	0.016	0.003	#
24)	Hexachlor...	5.611	6.385	230567	28381	0.069	BelowCal	#
25)	Oxychlordane	7.099	7.831	933808	183572	0.124	0.057	#
26)	2,4'-DDE	7.161	8.056	166.9E6	173.5E6	72.203	76.312	
27)	trans-Non...	7.355	8.115	159.5E6	910970	43.509	0.252	#
28)	2,4'-DDD	0.000	8.415	0	180.8E6	N.D.	94.451	#
29)	2,4'-DDT	7.730	8.642	1000348	143.1E6	0.418	60.279	#
30)	cis-Nonac...	7.848f	8.688	106.0E6	127.8E6	26.056	32.075	
31)	Mirex	8.478	9.617	1112711	157.9E6	0.253	73.176	#
32)	Chlordane...	7.258f	8.115f	167.3E6	910970	417.731	2.097	#
33)	Chlordane...	7.355f	8.214	159.5E6	155.3E6	327.996	427.185	#
34)	Chlordane...	7.942	8.878	117.7E6	1391545	904.261	11.718	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.355	8.415	159.5E6	180.8E6	9744.615	6135.463	#
37)	Toxaphene...	0.000	8.790	0	137.9E6	N.D.	3431.618	#
38)	Toxaphene...	7.991	8.790f	3757286	137.9E6	50.241	2131.696	#
39)	Toxaphene...	8.232	8.878	107.8E6	1391545	1628.014	10.279	#
40)	Toxaphene...	8.478f	9.027f	1112711	115.8E6	20.529	2019.560	#
41)	Toxaphene...	8.531f	0.000	125.4E6	0	1648.384	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

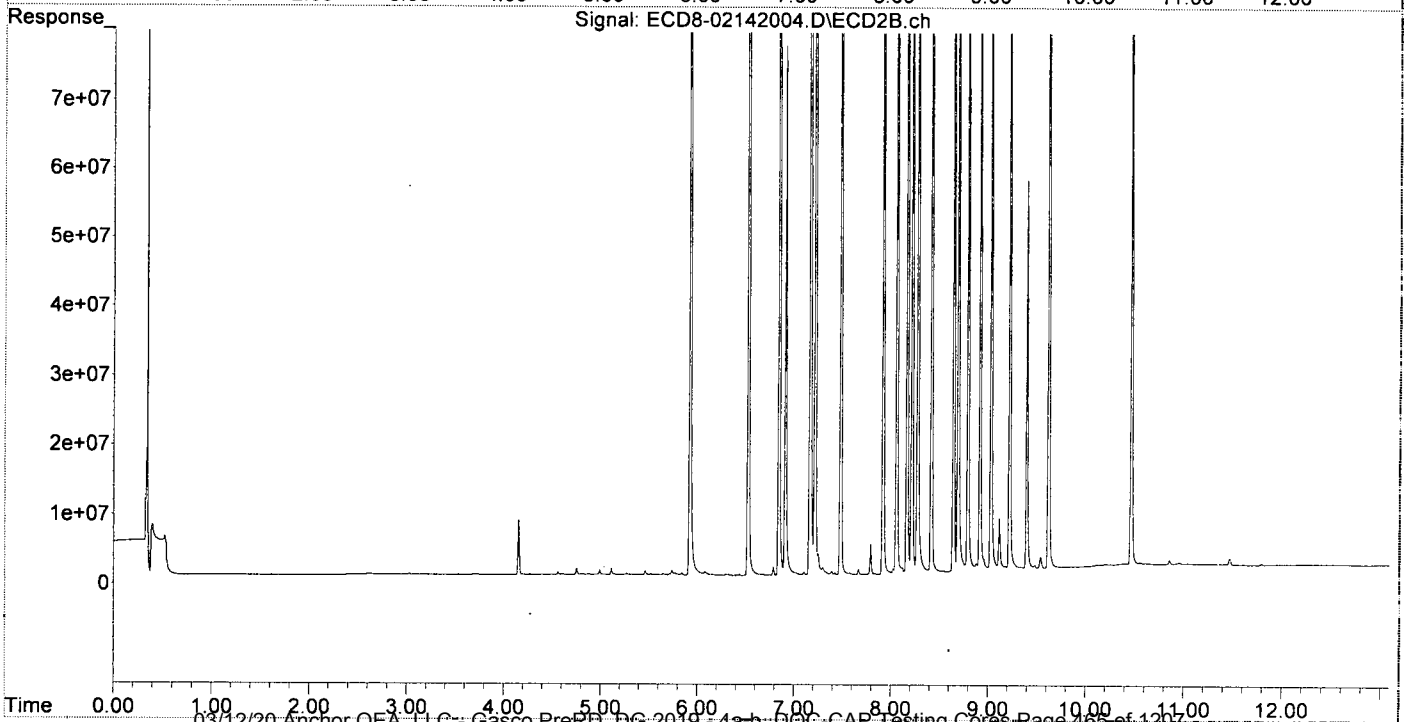
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 11:36
Operator : MJB
Sample : 0B14020-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 11:51:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT2.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 12:35
Operator : MJB
Sample : 0B14020-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 12:50:37 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT2.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	7.424	14864818	NoCal	ng/mL
2)	Endrin	7.781	1312262534	NoCal	ng/mL
3)	4,4'-DDD	7.844	63246116	NoCal	ng/mL
4)	4,4'-DDT	8.038	2242306402	NoCal	ng/mL
5)	Endrin Aldehyde	8.229	108654597	NoCal	ng/mL
6)	Endrin Ketone	8.721	77376703	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.272	33965446	NoCal	ng/mL
9)	Endrin [2C]	8.638	1346244795	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.685	64291424	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.024	84068133	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.910	2554734240	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.615	80547657	NoCal	ng/mL

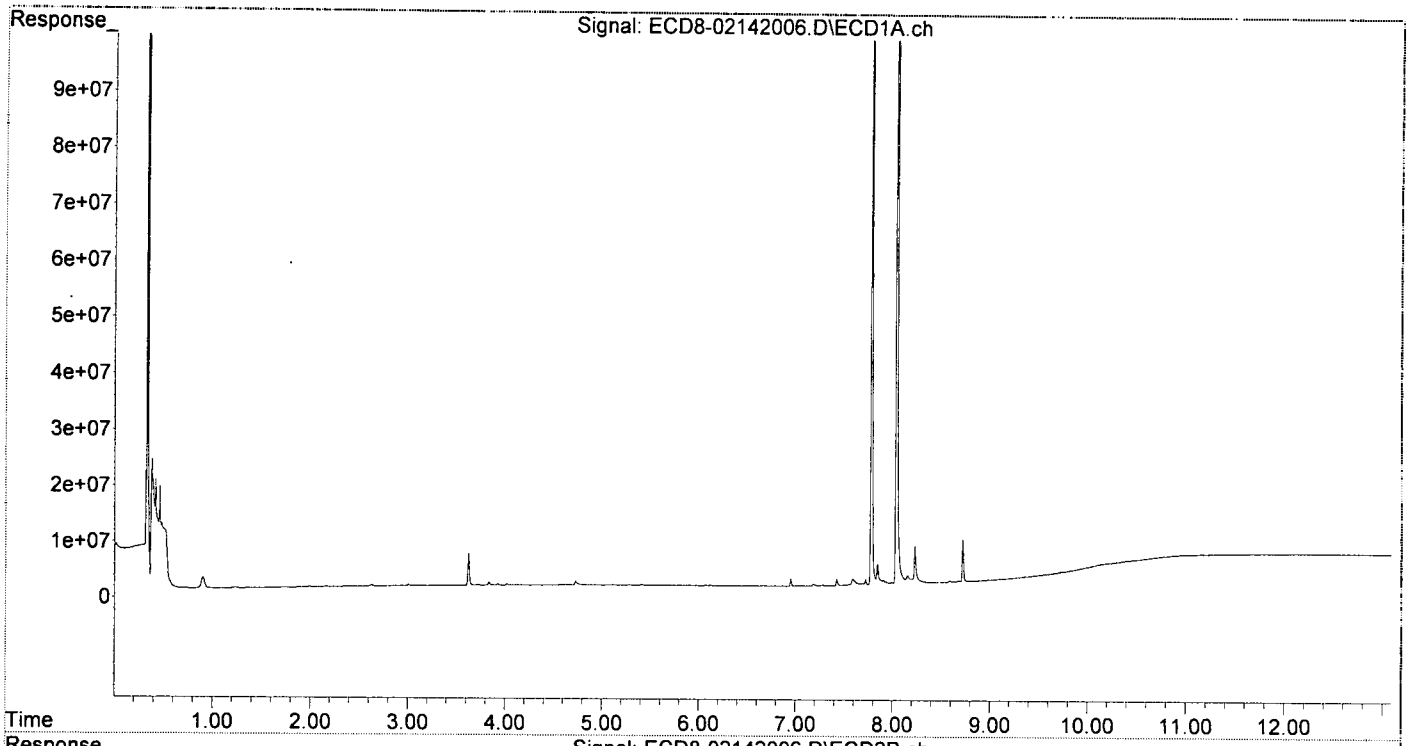
(f)=RT Delta > 1/2 Window (m)=manual int.

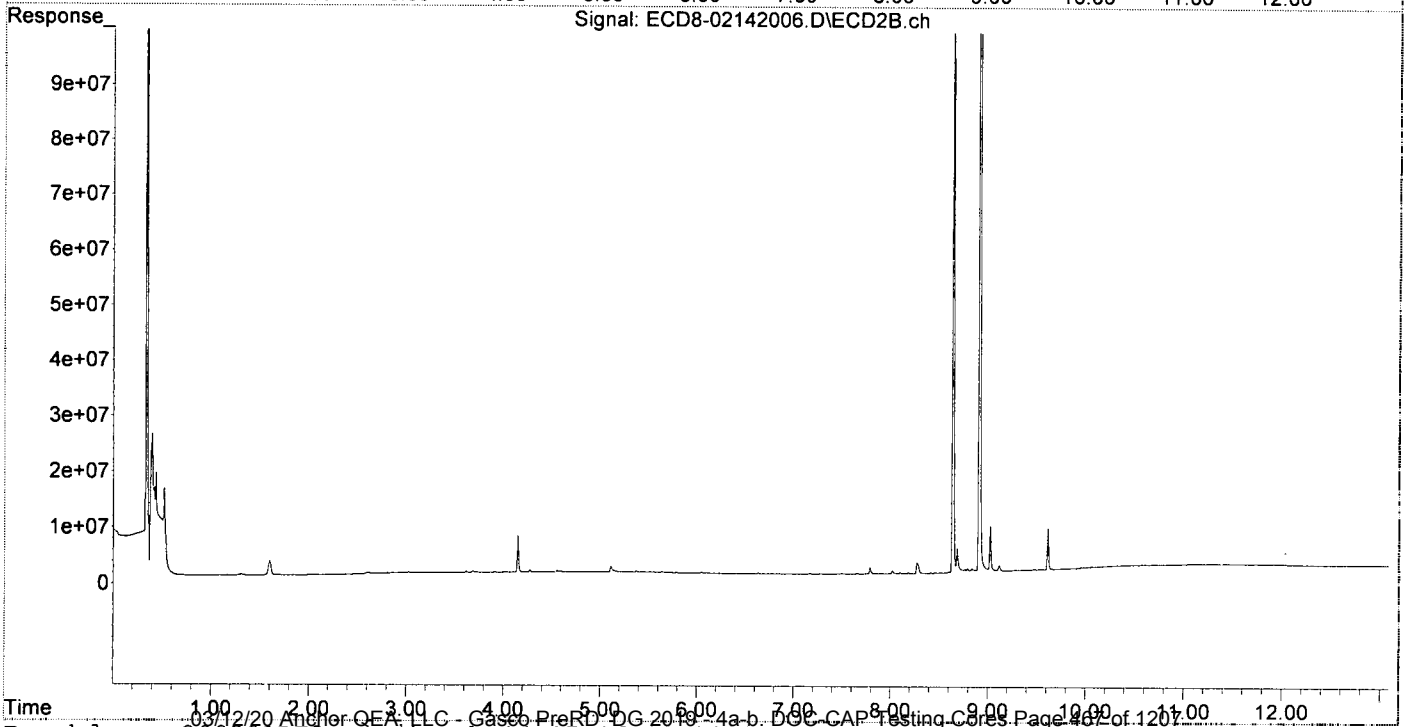
MJB 2/14/20
Replaced 'y' split cpt'ter.
ECV Failed.
MJB 2/14/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 12:35
Operator : MJB
Sample : 0B14020-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 12:50:37 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT2.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 12:52
Operator : MJB
Sample : 0B14020-CCV2
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 13:07:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT2.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q-14

WB 2/14/20

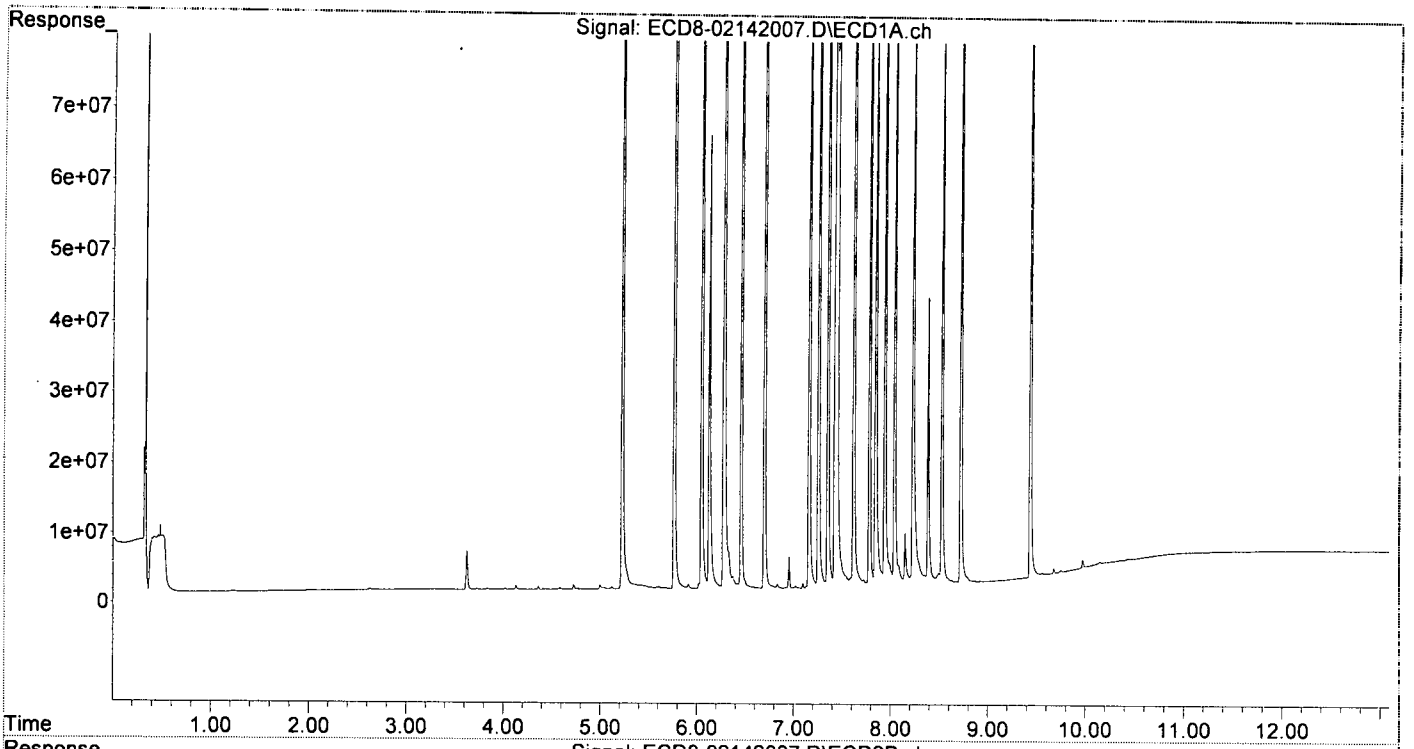
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.225	5.917	149.3E6	164.4E6	42.692	47.652	
22)	S	DCBP (S)	9.434	10.460	118.3E6	110.8E6	45.040	51.555	
		Target Compounds							
2)		a-BHC	5.763	6.520	219.1E6	230.3E6	46.372	49.342	
3)		g-BHC	6.047	6.838	185.1E6	194.4E6	44.454	46.467	
4)		b-BHC	6.125	6.904	64602373	76643550	37.093	44.148	
5)		Heptachlor	6.456	7.210	167.5E6	196.0E6	40.752	46.547	
6)		d-BHC	6.274	7.158	126.7E6	163.0E6	35.255	42.797	
7)		Aldrin	6.696	7.475	185.6E6	194.5E6	45.932	48.509	
8)		Heptachlo...	7.157	7.913	159.6E6	171.6E6	43.216	47.816	
9)		trans-Chl...	7.253	8.052	160.4E6	172.0E6	42.642	46.262	
10)		cis-Chlor...	7.350	8.161	165.1E6	169.7E6	44.948	48.175	
11)		Endosulfa...	7.445	8.210	159.6E6	156.3E6	46.008	47.293	
12)		4,4'-DDE	7.423	8.268	146.7E6	167.0E6	44.172	48.923	
13)		Dieldrin	7.617	8.411	167.3E6	174.6E6	43.869	46.744	
14)		Endrin	7.780	8.638	138.5E6	139.4E6	42.433	45.211	
15)		4,4'-DDD	7.843	8.685	103.8E6	128.0E6	40.793	48.531	
16)		Endosulfa...	7.938	8.786	115.1E6	132.7E6	38.492	46.395	
17)		4,4'-DDT	8.038	8.910	103.5E6	124.6E6	38.506	45.509	
18)		Endrin Al...	8.228	9.023	96109331	119.4E6	36.507	45.179	
19)		Endosulfa...	8.527	9.214	103.8E6	115.2E6	36.264	42.693	
20)		Methoxychlor	8.384	9.390	40922901	57733891	33.915	48.223	#
21)		Endrin Ke...	8.720	9.613	130.8E6	115.9E6	37.841	38.231	
23)		Hexachlor...	3.009	3.614	86957	228399	0.022	0.047	#
24)		Hexachlor...	5.608	6.379	391957	60522	0.117	BelowCal	#
25)		Oxychlordane	7.094	7.845	801036	250754	0.081	0.078	
26)		2,4'-DDE	7.157f	8.052	159.6E6	172.0E6	69.024	75.679	
27)		trans-Non...	7.350	8.114	165.1E6	683454	45.023	0.189	#
28)		2,4'-DDD	7.533	8.411	1646569	174.6E6	0.850	91.224	#
29)		2,4'-DDT	7.723	8.638	949382	139.4E6	0.397	58.845	#
30)		cis-Nonac...	7.843f	8.685	103.8E6	128.0E6	25.511	32.113	#
31)		Mirex	8.492	9.613	1444372	115.9E6	0.390	54.207	#
32)		Chlordane...	0.000	8.114f	0	683454	N.D.	1.573	#
33)		Chlordane...	7.423f	8.210	146.7E6	156.3E6	301.623	429.923	#
34)		Chlordane...	7.938	8.873	115.1E6	1088595	884.425	9.167	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.350	8.411	165.1E6	174.6E6	10083.503	5925.843	#
37)		Toxaphene...	0.000	8.786	0	132.7E6	N.D.	3301.577	#
38)		Toxaphene...	7.984	8.786f	3180676	132.7E6	42.042	2050.916	#
39)		Toxaphene...	8.228	8.873	96109331	1088595	1452.805	7.132	#
40)		Toxaphene...	0.000	9.023f	0	119.4E6	N.D.	2083.439	#
41)		Toxaphene...	8.492	9.475f	1444372	897058	18.991	13.581	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

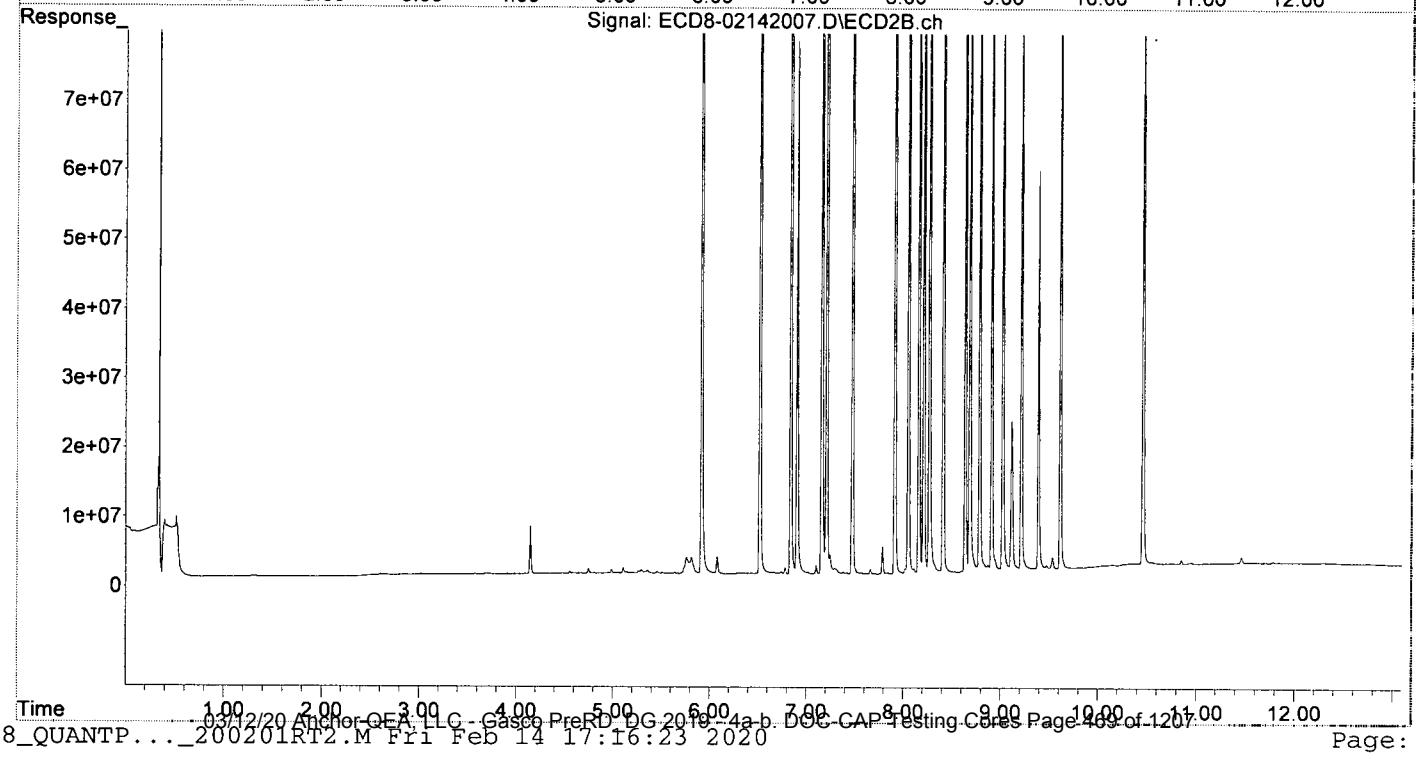
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 12:52
Operator : MJB
Sample : 0B14020-CCV2
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 13:07:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT2.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B14020 BKD3
Data File: ECD8-02142009.D

First Column Area Counts		Percent Breakdown	
DDE	12750042		
DDD	60788433		
DDT	2225138454	**3.20**	**PASS**
Endrin	1382990751	**11.80**	**PASS**
Endrin Aldehyde	103021468		
Endrin Ketone	82069821		

Second Column Area Counts		Percent Breakdown	
DDE	26867826		
DDD	61809879		
DDT	2449846493	**3.49**	**PASS**
Endrin	1373311895	**10.63**	**PASS**
Endrin Aldehyde	82612618		
Endrin Ketone	80720782		

Breakdown must be less than 15% to accept sample data.

MJB 2/14/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 13:48
Operator : MJB
Sample : 0B14020-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:18:03 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_20020IRT3.M RT update
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	7.411	12750042	NoCal	ng/mL
2)	Endrin	7.769	1382990751	NoCal	ng/mL
3)	4,4'-DDD	7.830	60788433	NoCal	ng/mL
4)	4,4'-DDT	8.027	2225138454	NoCal	ng/mL
5)	Endrin Aldehyde	8.217	103021468	NoCal	ng/mL
6)	Endrin Ketone	8.710	82069821	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.260	26867826	NoCal	ng/mL
9)	Endrin [2C]	8.629	1373311895	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.674	61809879	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.013	82612618	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.901	2449846493	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.605	80720782	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

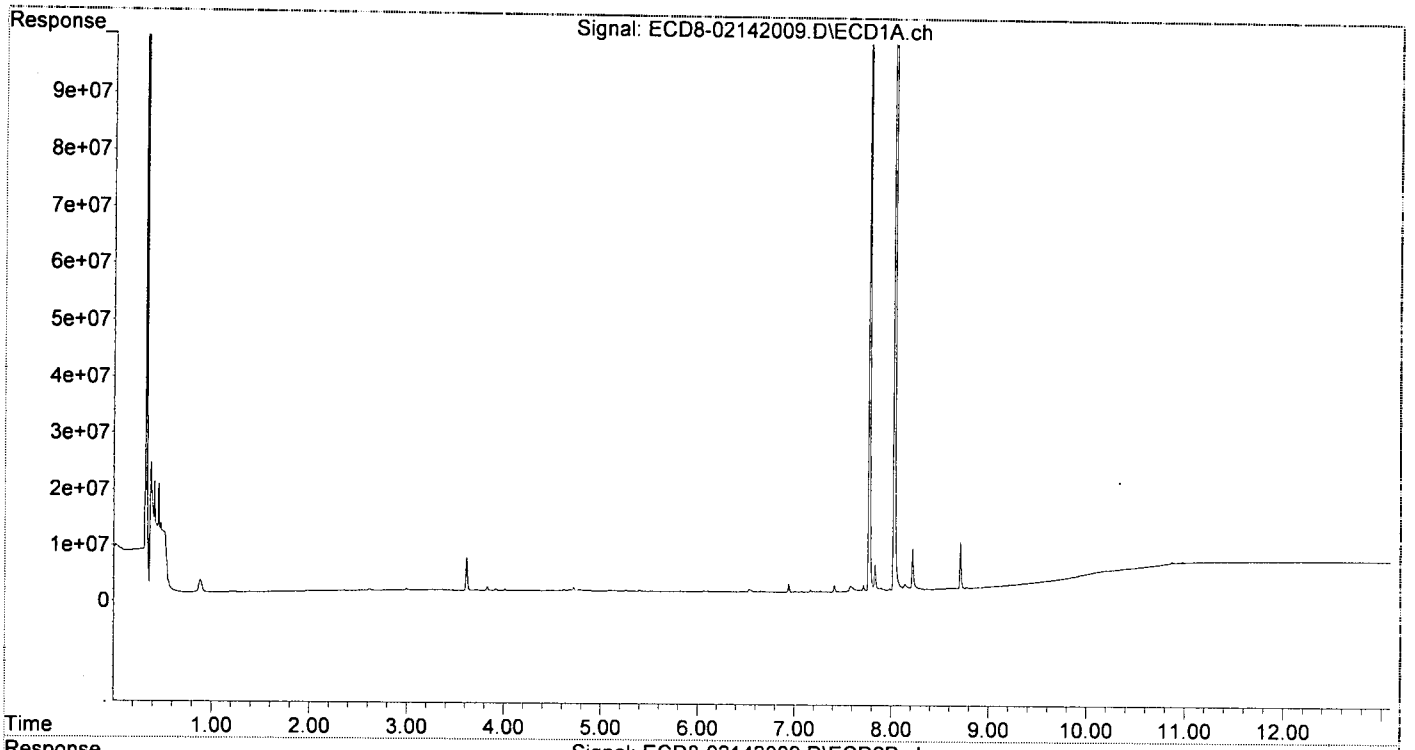
Replaced inlet liner, sitrek seal & cut 2" off guard column.

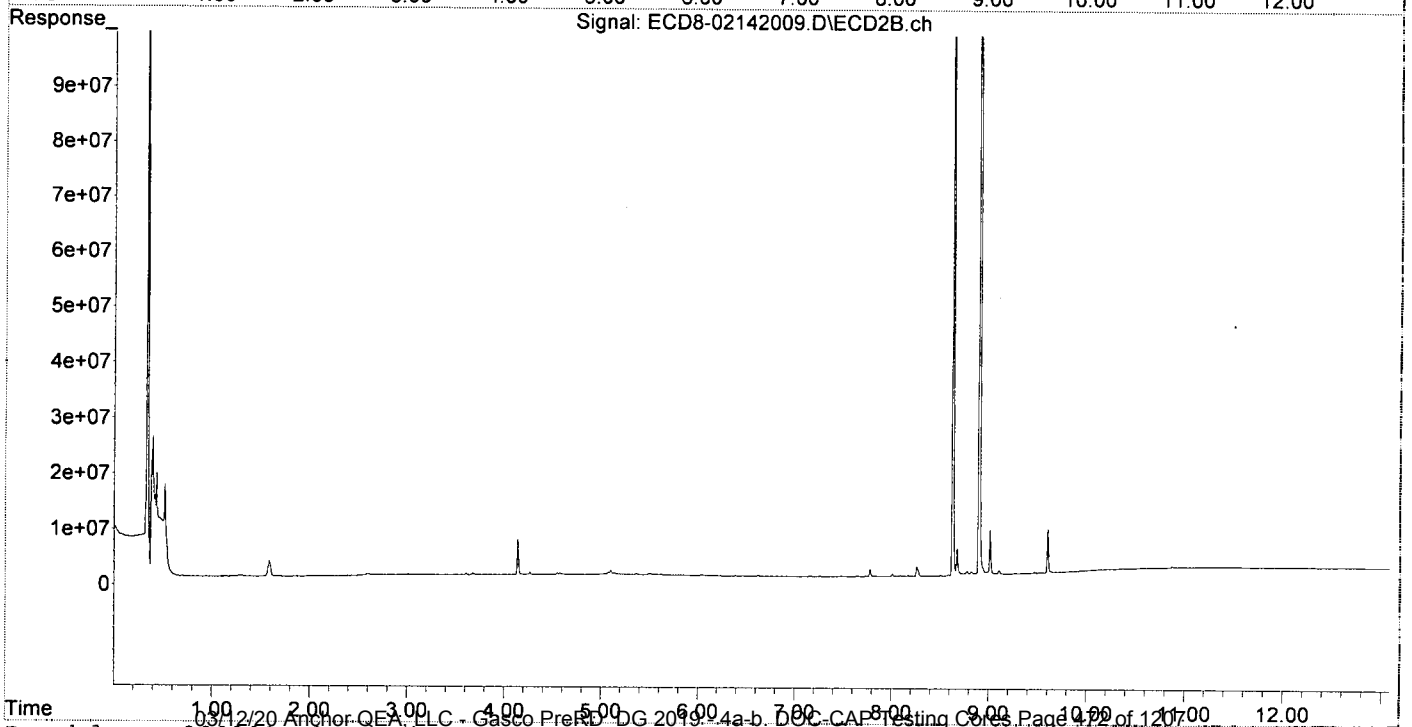
MJB 2/14/20.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 13:48
Operator : MJB
Sample : 0B14020-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:18:03 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:05
Operator : MJB
Sample : 0B14020-CCV3
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:21:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M RT update
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

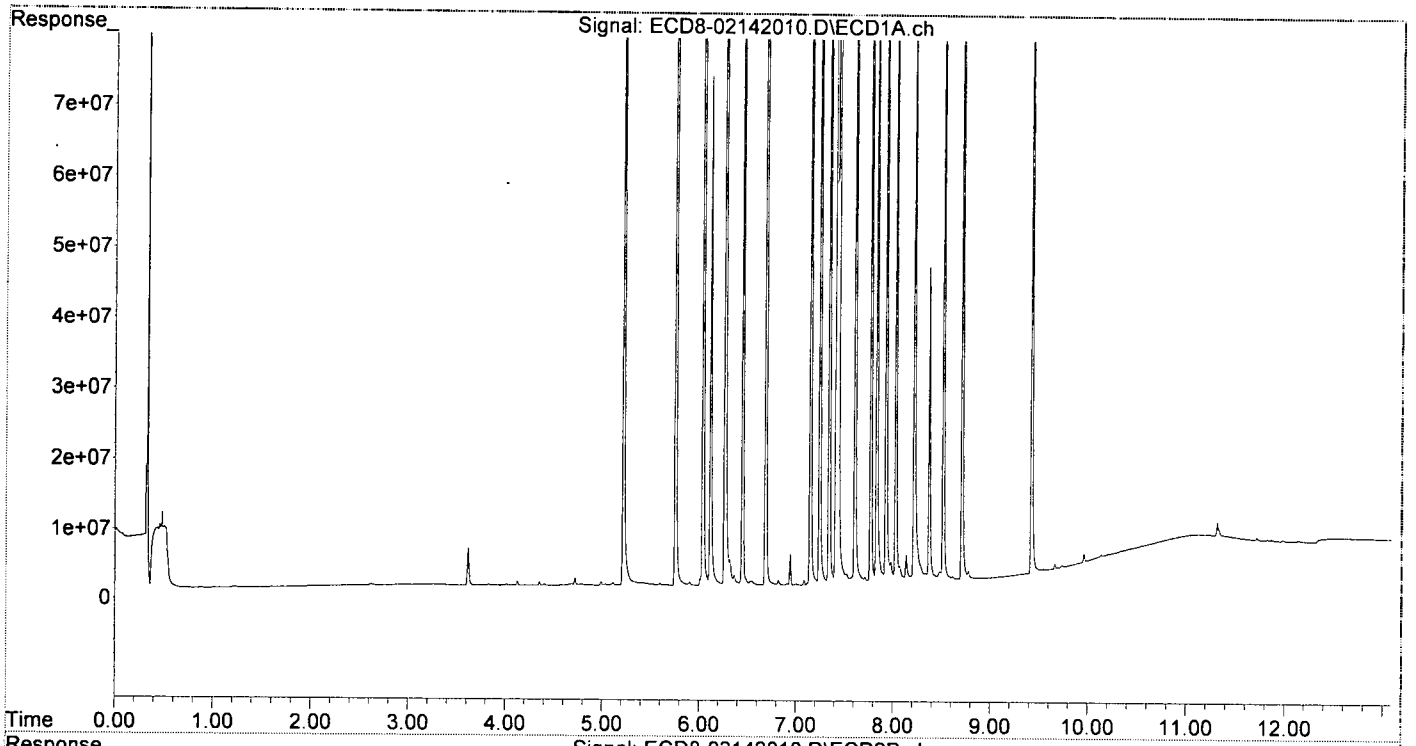
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.217	5.909	156.0E6	172.2E6	44.631	49.917	
22)	S	DCBP (S)	9.421	10.449	135.7E6	114.6E6	51.572	53.238	
		Target Compounds							
2)		a-BHC	5.754	6.511	222.2E6	241.4E6	47.024	51.511	
3)		g-BHC	6.037	6.829	192.4E6	205.2E6	46.202	48.862	
4)		b-BHC	6.115	6.894	72541403	81879475	41.651	47.164	
5)		Heptachlor	6.446	7.200	163.9E6	181.1E6	39.890	43.019	
6)		d-BHC	6.263	7.148	155.5E6	194.3E6	42.850	50.274	
7)		Aldrin	6.686	7.466	188.1E6	196.5E6	46.543	48.969	
8)		Heptachlo...	7.146	7.903	164.8E6	175.0E6	44.626	48.748	
9)		trans-Chl...	7.243	8.044	169.6E6	180.2E6	45.089	48.469	
10)		cis-Chlor...	7.340	8.150	165.5E6	174.6E6	45.064	49.569	
11)		Endosulfa...	7.433	8.201	158.6E6	160.1E6	45.737	48.445	
12)		4,4'-DDE	7.410	8.259	159.4E6	180.3E6	48.003	52.469	
13)		Dieldrin	7.606	8.402	173.6E6	179.4E6	45.528	47.943	
14)		Endrin	7.769	8.628	134.9E6	136.4E6	41.337	44.296	
15)		4,4'-DDD	7.830	8.674	115.3E6	132.6E6	45.296	50.082	
16)		Endosulfa...	7.926	8.777	119.6E6	134.5E6	39.968	46.972	
17)		4,4'-DDT	8.026	8.900	108.4E6	121.5E6	40.337	44.496	
18)		Endrin Al...	8.216	9.013	105.4E6	125.7E6	40.049	47.563	
19)		Endosulfa...	8.516	9.204	109.6E6	129.5E6	38.290	47.609	
20)		Methoxychlor	8.371	9.381	44700643	59070274	37.046	49.233	#
21)		Endrin Ke...	8.708	9.604	140.2E6	138.8E6	40.548	45.257	
23)		Hexachlor...	2.999	3.606	290563	55850	0.075	0.012	#
24)		Hexachlor...	5.596	6.368	329865	23802	0.098	BelowCal	#
25)		Oxychlordane	7.084	7.832	766077	86363	0.070	0.027	#
26)		2,4'-DDE	7.146	8.044	164.8E6	180.2E6	71.276	79.291	
27)		trans-Non...	7.340	8.105	165.5E6	541270	45.139	0.150	#
28)		2,4'-DDD	7.522	8.402	1363726	179.4E6	0.704	93.719	#
29)		2,4'-DDT	7.712	8.628	863487	136.4E6	0.361	57.689	#
30)		cis-Nonac...	7.830f	8.674	115.3E6	132.6E6	28.328	33.263	
31)		Mirex	8.480	9.604	1227515	138.8E6	0.300	64.588	#
32)		Chlordane...	7.243	8.044	169.6E6	180.2E6	423.393	414.818	
33)		Chlordane...	7.340	8.150	165.5E6	174.6E6	340.281	480.300	#
34)		Chlordane...	7.891	8.821	1377427	1152682	10.580	9.706	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.340f	8.402f	165.5E6	179.4E6	10109.609	6087.942	#
37)		Toxaphene...	7.606	0.000	173.6E6	0	5526.427	N.D.	#
38)		Toxaphene...	7.926	8.777	119.6E6	134.5E6	1726.140	2078.398	
39)		Toxaphene...	8.135f	8.821	3821624	1152682	51.948	7.798	#
40)		Toxaphene...	8.371	9.013	44700643	125.7E6	824.699	2193.335	#
41)		Toxaphene...	8.433	9.381	742613	59070274	9.764	894.275	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

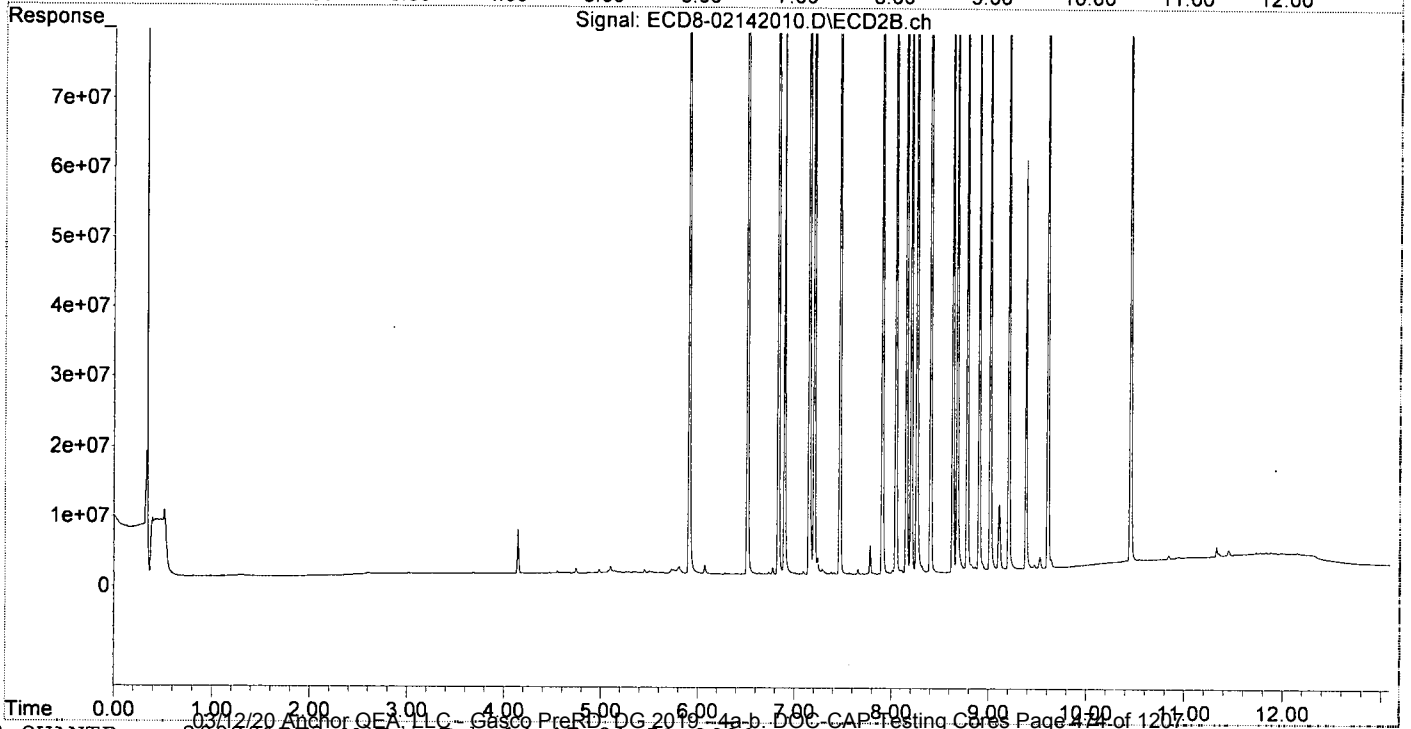
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:05
Operator : MJB
Sample : 0B14020-CCV3
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:21:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:22
Operator : MJB
Sample : 0B14020-CCV4
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

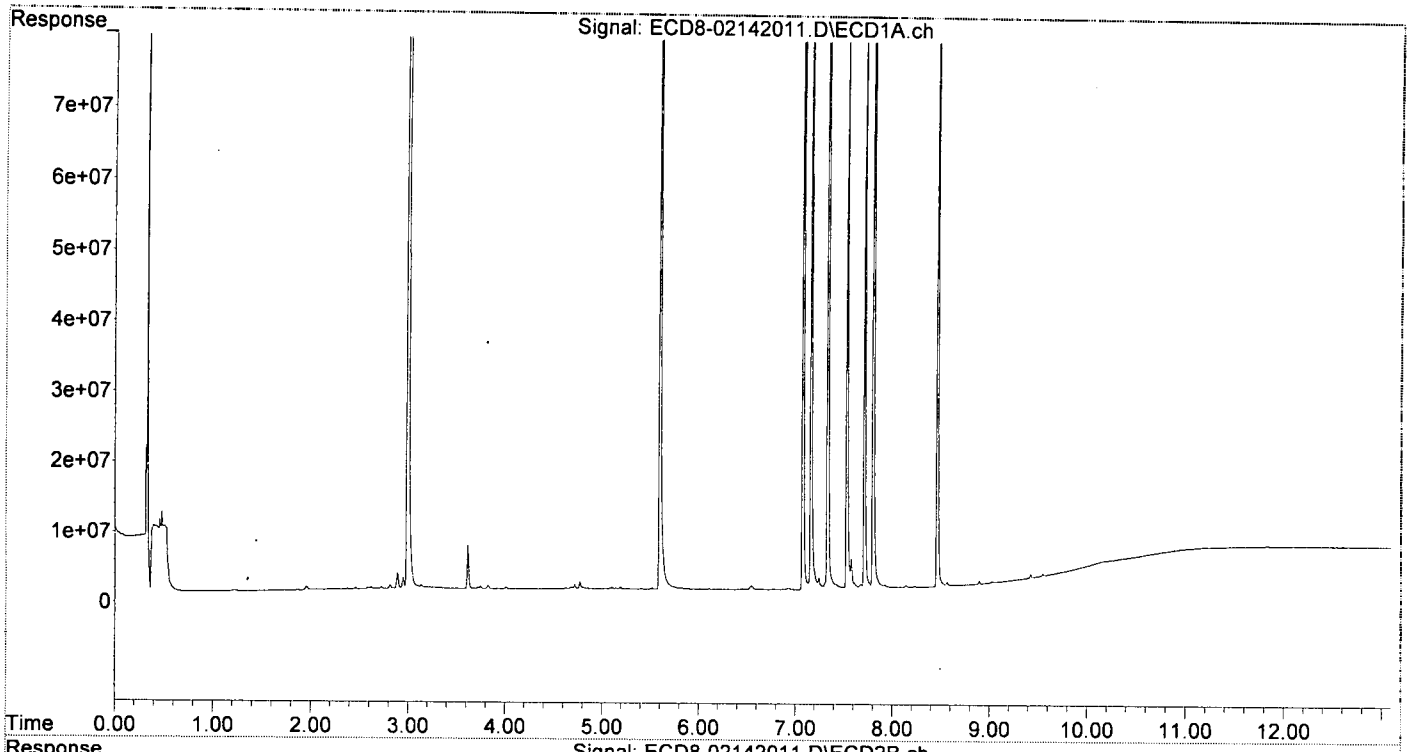
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.192f	5.910	317137	292730	0.091	0.085	
22)	S	DCBP (S)	9.423	10.450	622661	688409	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.012f	0.000	113051	0	0.027	N.D.	#
4)		b-BHC	6.108	6.895	145766	73533	0.084	0.042	#
5)		Heptachlor	6.446	7.201	183956	179266	0.045	0.043	
6)		d-BHC	6.270	7.151	32186	32966	0.116	0.107	
7)		Aldrin	6.653f	7.458	80762	26288	0.020	0.019	
8)		Heptachlo...	7.159	7.902	110.6E6	507129	29.939	0.141	#
9)		trans-Chl...	7.242	8.037	1663158	120.0E6	0.442	32.285	#
10)		cis-Chlor...	7.332	0.000	164.9E6	0	44.897	N.D.	#
11)		Endosulfa...	0.000	8.198	0	267578	N.D.	0.081	#
12)		4,4'-DDE	0.000	8.238f	0	173580	N.D.	0.144	#
13)		Dieldrin	7.609	8.410	756641	96881439	0.198	26.676	#
14)		Endrin	7.802f	8.633	188.7E6	110.9E6	57.822	36.463	#
15)		4,4'-DDD	7.802f	8.672	188.7E6	202.5E6	74.150	72.607	
16)		Endosulfa...	7.924	8.756f	469270	366367	0.157	0.109	#
17)		4,4'-DDT	8.027	8.901	110813	106488	0.041	0.018	#
18)		Endrin Al...	8.227	9.009	154705	102543	0.059	0.039	#
19)		Endosulfa...	0.000	9.207	0	26932	N.D.	BelowCal	
20)		Methoxychlor	8.382	9.381	15438	32422	0.013	BelowCal	#
21)		Endrin Ke...	8.711	9.594	55474	109.7E6	0.016	36.300	#
23)		Hexachlor...	2.997	3.607	181.6E6	237.3E6	46.588	49.013	
24)		Hexachlor...	5.597	6.375	163.3E6	179.2E6	48.579	56.645	
25)		Oxychlordane	7.075	7.832	149.8E6	154.8E6	48.272	48.412	
26)		2,4'-DDE	7.159	8.037	110.6E6	120.0E6	47.817	52.815	
27)		trans-Non...	7.332	8.107	164.9E6	172.3E6	44.972	47.749	
28)		2,4'-DDD	7.531	8.410	85963657	96881439	44.384	50.610	
29)		2,4'-DDT	7.712	8.633	98518908	110.9E6	41.167	47.732	
30)		cis-Nonac...	7.802	8.672	188.7E6	202.5E6	46.372	50.823	
31)		Mirex	8.464	9.594	113.6E6	109.7E6	46.954	51.377	
32)		Chlordane...	7.242	8.037	1663158	120.0E6	4.153	276.308	#
33)		Chlordane...	7.332	0.000	164.9E6	0	339.019	N.D.	#
34)		Chlordane...	0.000	8.826	0	482767	N.D.	4.065	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.332	8.410f	164.9E6	96881439	10072.110	3287.576	#
37)		Toxaphene...	7.609	8.756f	756641	366367	24.085	9.116	#
38)		Toxaphene...	7.924	8.756	469270	366367	3.507	5.663	#
39)		Toxaphene...	8.140	8.826	280583	482767	BelowCal	0.836	
40)		Toxaphene...	8.382	9.009	15438	102543	0.285	1.789	#
41)		Toxaphene...	8.464	9.381	113.6E6	32422	1493.291	0.491	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

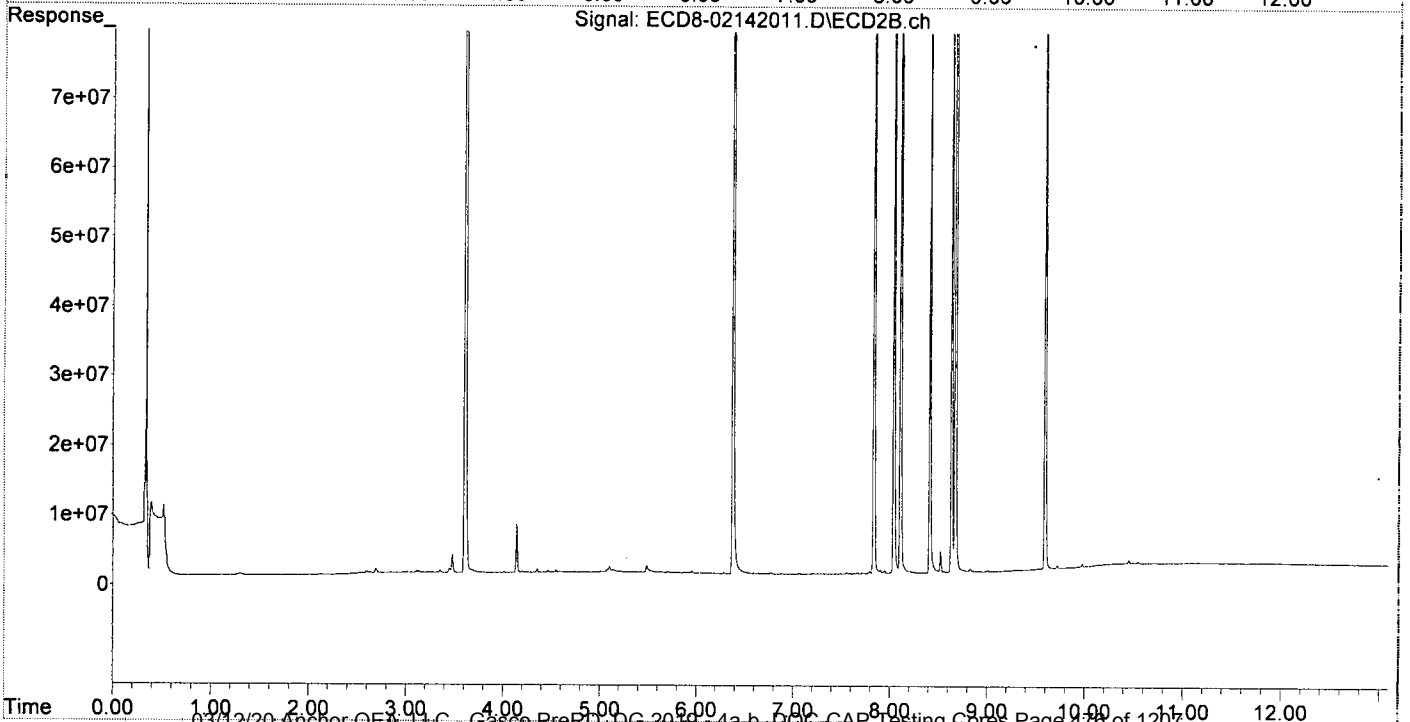
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:22
Operator : MJB
Sample : 0B14020-CCV4
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:38
Operator : MJB
Sample : 0B14020-CCV5
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:21:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.216	5.913	119580	81063	0.034	0.023	#
22)	S	DCBP (S)	9.425	10.464	481844	500895	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.760	6.539f	39952	3612241	0.008	0.921	#
3)		g-BHC	6.054	6.837	163174	1705816	0.039	0.479	#
4)		b-BHC	6.110	6.905	535002	132620	0.307	0.076	#
5)		Heptachlor	6.446	7.201	73723259	75789080	17.938	17.999	
6)		d-BHC	6.255	7.136	1156579	447363	0.441	0.225	#
7)		Aldrin	6.688	7.475	1071753	741768	0.265	0.210	
8)		Heptachlo...	7.156	7.924f	13422526	4202735	3.635	1.171	#
9)		trans-Chl...	7.243	8.044	181.6E6	206.4E6	48.303	55.520	
10)		cis-Chlor...	7.337	8.151	226.1E6	172.9E6	61.558	49.091	
11)		Endosulfa...	7.413	8.220	3315624	2543037	0.956	0.769	
12)		4,4'-DDE	7.413	8.247	3315624	3993732	0.998	1.369	#
13)		Dieldrin	7.622	8.403	5579958	14150400	1.463	4.051	#
14)		Endrin	7.761	8.625	3129057	3729269	0.959	1.289	#
15)		4,4'-DDD	7.856f	8.673	4960747	30198311	1.949	12.560	#
16)		Endosulfa...	7.935	8.764	3498030	3988468	1.169	1.479	#
17)		4,4'-DDT	8.056f	8.911	10244285	1151258	3.811	0.444	#
18)		Endrin Al...	8.241f	8.985f	909781	795887	0.346	0.301	
19)		Endosulfa...	8.523	9.209	2164732	41425	0.756	BelowCal	#
20)		Methoxychlor	8.366	9.382	875458	145284	0.726	BelowCal	#
21)		Endrin Ke...	8.709	9.605	278867	1571498	0.081	0.334	#
23)		Hexachlor...	3.002	3.603	63594	8302	0.016	0.002	#
24)		Hexachlor...	5.590	6.393	105653	72769	0.031	BelowCal	#
25)		Oxychlordane	7.070	7.847	1627506	2275039	0.350	0.711	#
26)		2,4'-DDE	7.156	8.044	13422526	206.4E6	5.805	90.825	#
27)		trans-Non...	7.337	8.107	226.1E6	148.9E6	61.660	41.261	#
28)		2,4'-DDD	7.560f	8.403	16572678	14150400	8.557	7.392	
29)		2,4'-DDT	7.730	8.625	4497987	3729269	1.880	1.698	
30)		cis-Nonac...	7.802	8.673	29400776	30198311	7.225	7.578	
31)		Mirex	8.464	9.605	246061	1571498	8199.027	0.507	#
32)		Chlordane...	7.243	8.044	181.6E6	206.4E6	453.566	475.162	
33)		Chlordane...	7.337	8.151	226.1E6	172.9E6	464.827	475.668	
34)		Chlordane...	7.882	8.813	53389015	50003273	410.062	421.061	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.403f	26871086	14150400	1641.543	480.180	#
37)		Toxaphene...	7.622	8.729	5579958	4448495	177.618	110.690	#
38)		Toxaphene...	7.912	8.764	2765708	3988468	36.142	61.649	#
39)		Toxaphene...	8.161	8.813	2112437	50003273	25.618	497.387	#
40)		Toxaphene...	8.366	8.985f	875458	795887	16.152	13.883	
41)		Toxaphene...	8.464	9.382	246061	145284	3.235	2.199	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

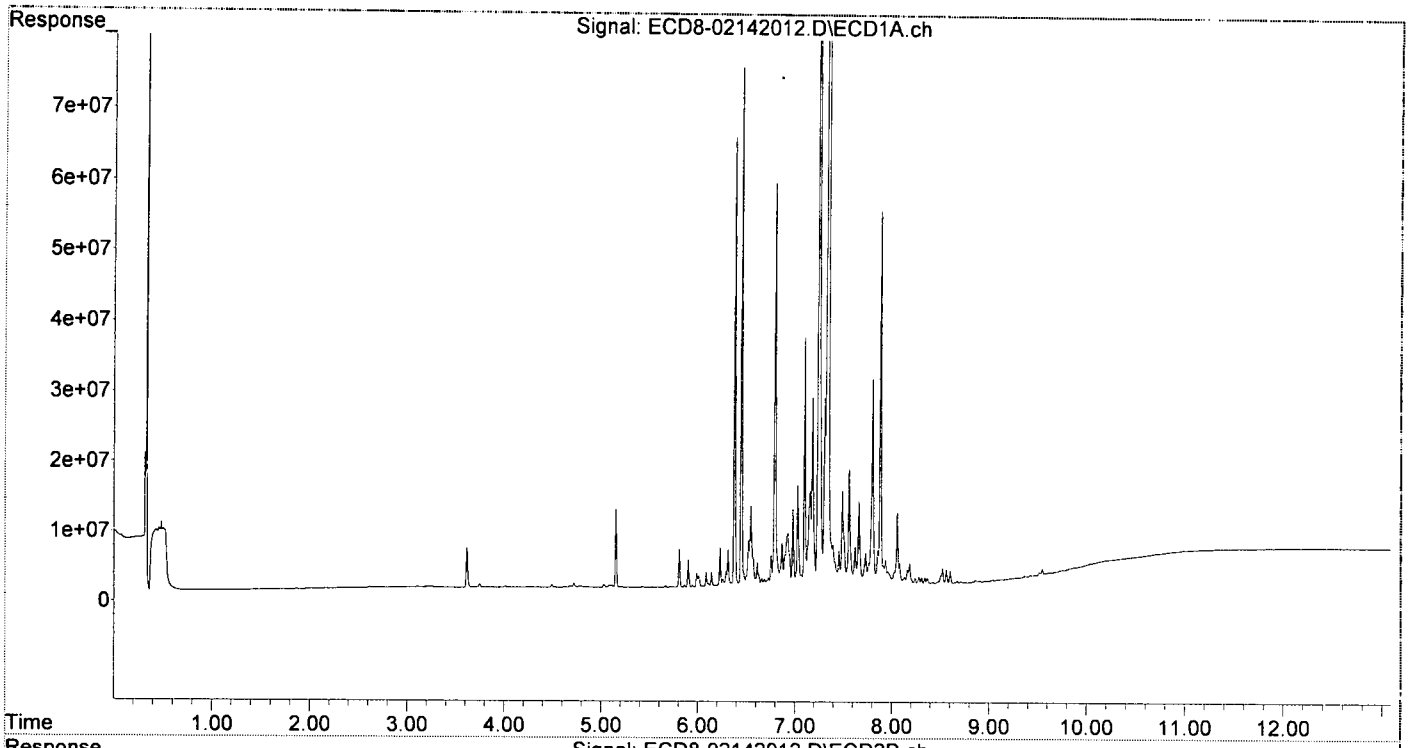
A B
442.82 457.30

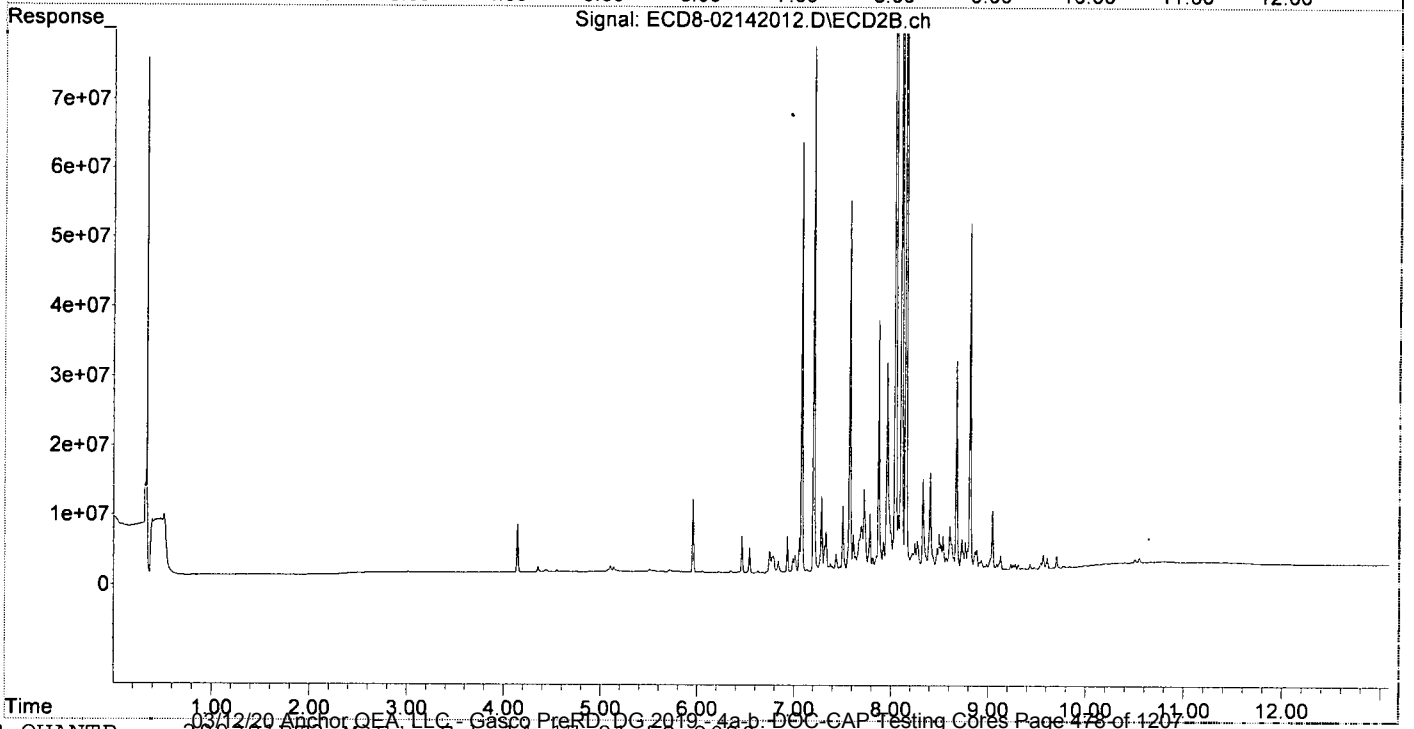
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:38
Operator : MJB
Sample : 0B14020-CCV5
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:21:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:55
Operator : MJB
Sample : 0B14020-CCV6
Misc : A19J420, TOX 500 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.914	0	122564	N.D.	0.036	#
22)	S	DCBP (S)	9.412	10.429	400885	863260	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.753	6.512	90671	60149	0.019	0.090	#
3)		g-BHC	6.024	6.838	14032	44645	0.003	0.054	#
4)		b-BHC	6.109	6.904	199126	53119	0.114	0.031	#
5)		Heptachlor	6.444	7.204	259261	295121	0.063	0.070	
6)		d-BHC	6.247	7.148	76068	232383	0.129	0.164	#
7)		Aldrin	6.684	7.495f	641034	1036156	0.159	0.289	#
8)		Heptachlo...	7.148	7.898	2430545	4013928	0.658	1.118	#
9)		trans-Chl...	7.261	8.046	4677217	3418400	1.244	0.919	#
10)		cis-Chlor...	7.316f	8.133	7427584	4470609	2.023	1.269	#
11)		Endosulfa...	7.438	8.208	8685335	6215820	2.504	1.881	
12)		4,4'-DDE	7.414	8.272	4706913	7503008	1.417	2.488	#
13)		Dieldrin	7.609	8.419	13990334	7967553	3.669	2.301	#
14)		Endrin	7.756	8.626	11119130	13729881	3.407	4.738	#
15)		4,4'-DDD	7.838	8.675	11770693	9848866	4.625	4.216	
16)		Endosulfa...	7.918	8.762	30651619	26897402	10.246	9.995	
17)		4,4'-DDT	8.047f	8.891	7355438	11236346	2.736	4.510	#
18)		Endrin Al...	8.206	9.008	20304037	25581632	7.712	9.676	#
19)		Endosulfa...	8.522	9.206	11445005	10666093	3.999	4.149	
20)		Methoxychlor	8.357	9.386	9461005	29020764	7.841	25.407	#
21)		Endrin Ke...	8.705	9.629f	7318170	5506045	2.117	1.726	
23)		Hexachlor...	2.997	3.604	245342	37111	0.063	0.008	#
24)		Hexachlor...	5.613	6.370	13991	55867	0.004	BelowCal	#
25)		Oxychlordane	7.077	7.817	6012890	2500861	1.778	0.782	#
26)		2,4'-DDE	7.148	8.046	2430545	3418400	1.051	1.504	#
27)		trans-Non...	7.316	8.118	7427584	4771768	2.026	1.322	#
28)		2,4'-DDD	7.524	8.419	9637822	7967553	4.976	4.162	
29)		2,4'-DDT	7.707	8.626	16249632	13729881	6.790	6.326	
30)		cis-Nonac...	7.795	8.675	19480055	9848866	4.787	2.471	#
31)		Mirex	8.452	9.629f	32120911	5506045	13.077	2.406	#
32)		Chlordane...	7.261	8.046	4677217	3418400	11.679	7.868	#
33)		Chlordane...	7.316f	8.133	7427584	4470609	15.273	12.297	
34)		Chlordane...	7.858f	8.830	13386209	46040606	102.815	387.693	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.316	8.380	7427584	14141139	453.748	479.866	
37)		Toxaphene...	7.609	8.728	13990334	18139753	445.333	451.362	
38)		Toxaphene...	7.918	8.762	30651619	26897402	434.214	415.748	
39)		Toxaphene...	8.160	8.830	28414534	46040606	429.212	458.919	
40)		Toxaphene...	8.385	9.008	22019981	25581632	406.255	446.224	
41)		Toxaphene...	8.452	9.386	32120911	29020764	422.343	439.350	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

A 431.85

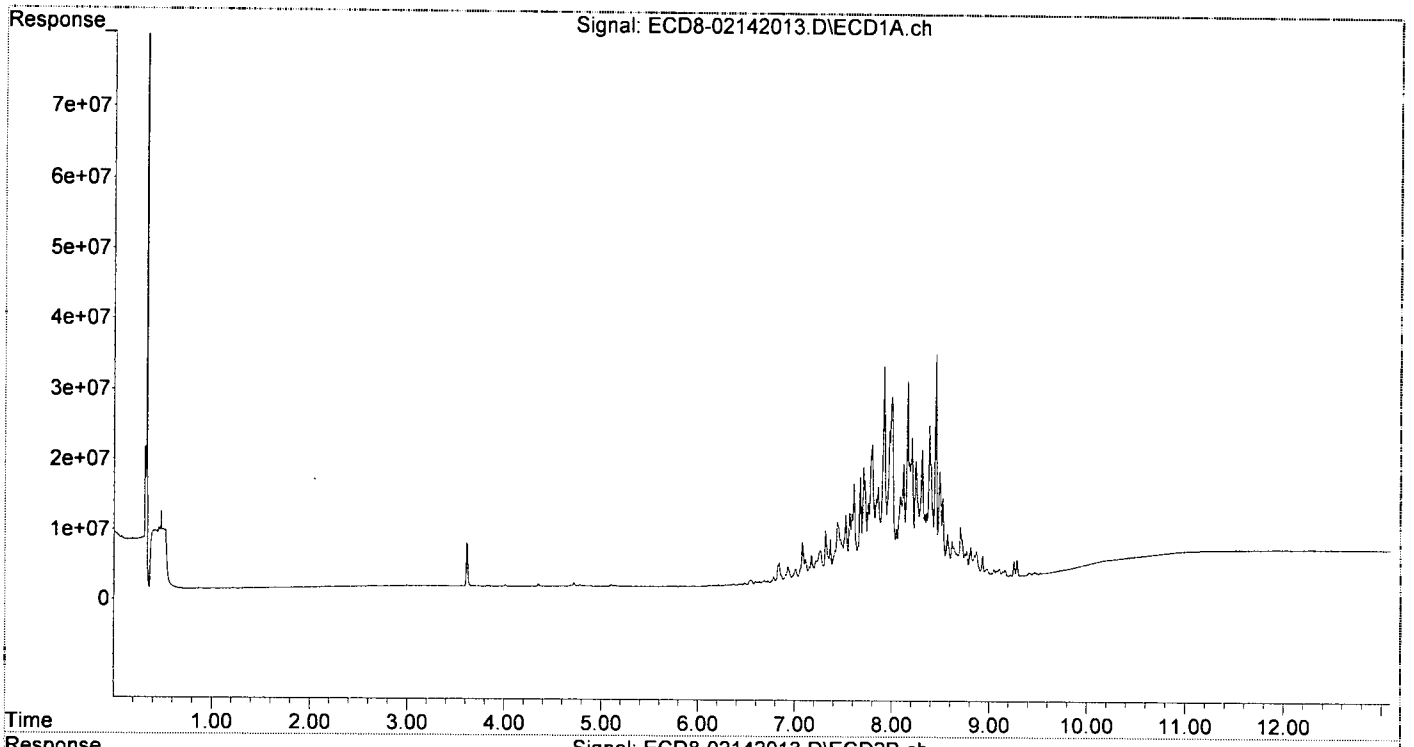
D 448.56

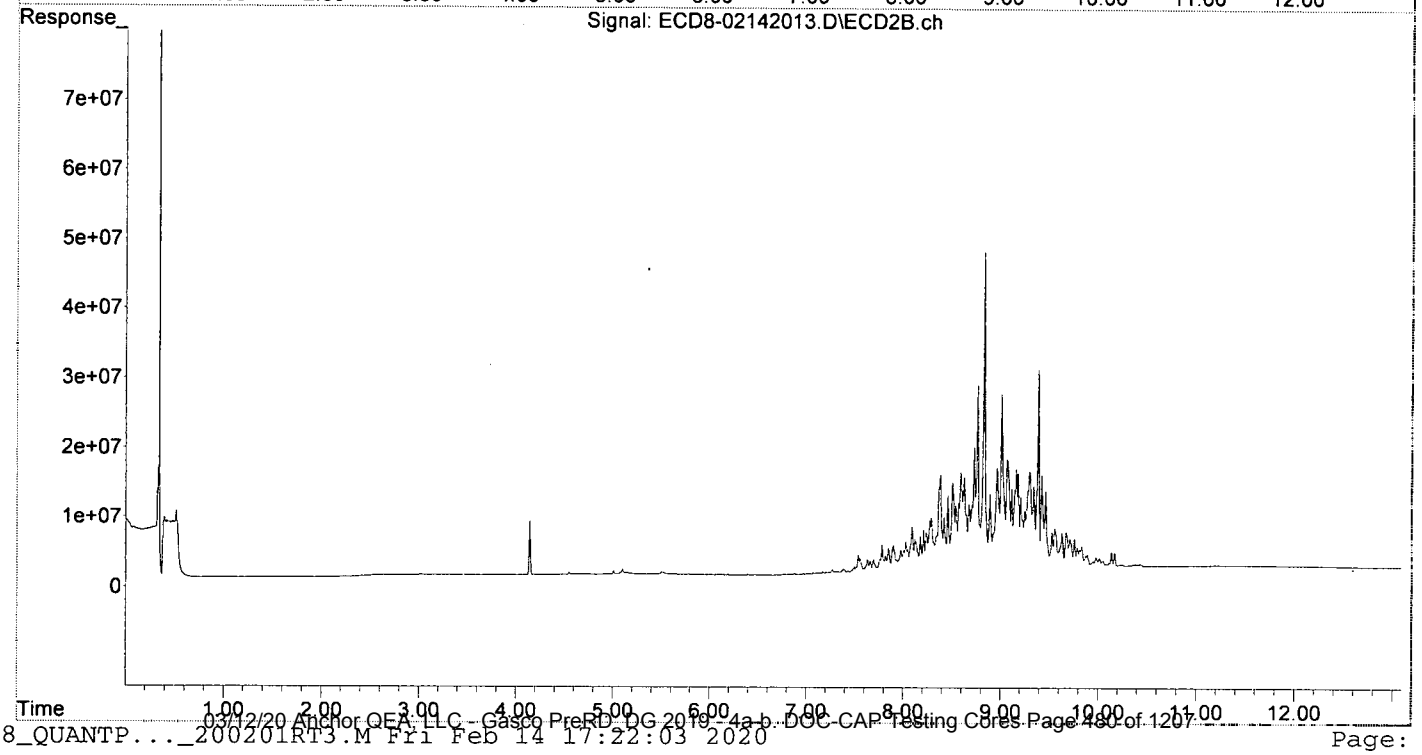
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 14:55
Operator : MJB
Sample : 0B14020-CCV6
Misc : A19J420, TOX 500 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 15:12
Operator : MJB
Sample : 0B14020-CCB1
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

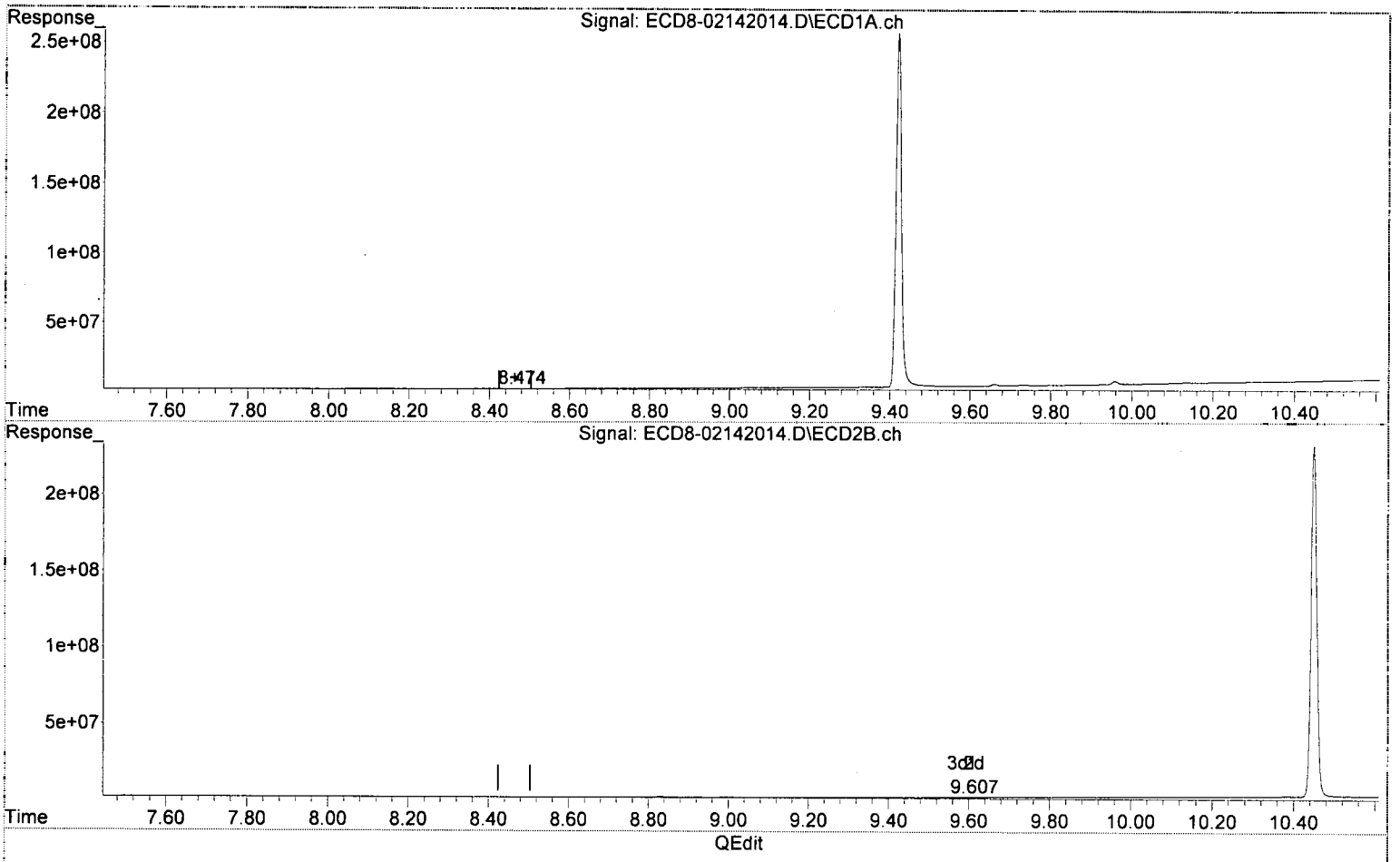
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.216	5.909	311.1E6	354.3E6	88.987	102.696
22) S	DCBP (S)	9.421	10.450	254.1E6	229.7E6	94.967	102.136
	Target Compounds						
2)	a-BHC	5.755	6.483f	48560	38424	0.010	0.085 #
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	b-BHC	6.112	0.000	112748	0	0.065	N.D. #
5)	Heptachlor	6.444	7.204	19003	12981	0.005	0.003 #
6)	d-BHC	6.272	7.141	13937	12207	0.111	0.101
7)	Aldrin	0.000	7.486f	0	110362	N.D.	0.042 #
8)	Heptachlo...	7.183f	7.902	6874	15413	0.002	0.004 #
9)	trans-Chl...	7.237	8.046	61371	57903	0.016	0.016
10)	cis-Chlor...	7.334	8.148	49990	10945	0.014	0.003 #
11)	Endosulfa...	7.431	8.207	11240	16265	0.003	0.005 #
12)	4,4'-DDE	7.408	8.248	18471	11573	0.006	0.092 #
13)	Dieldrin	7.607	8.413	14443	8763	0.004	0.035 #
14)	Endrin	7.765	8.633	6591	14359	0.002	BelowCal #
15)	4,4'-DDD	7.826	8.681	13927	11659	0.005	0.048 #
16)	Endosulfa...	7.927	8.789	160798	13898	0.054	BelowCal #
17)	4,4'-DDT	8.033	8.894	19815	32886	0.007	BelowCal #
18)	Endrin Al...	8.227	9.009	85143	67717	0.032	0.026
19)	Endosulfa...	8.527	9.204	21226	37248	0.007	BelowCal #
20)	Methoxychlor	8.365	9.381	56918	80724	0.047	BelowCal #
21)	Endrin Ke...	8.709	9.607	29418	232479	0.009	BelowCal #
23)	Hexachlor...	2.999	3.628f	106406	47132	0.027	0.010 #
24)	Hexachlor...	5.597	6.370	410433	32170	0.122	BelowCal #
25)	Oxychlordane	7.079	7.834	149680	16808	BelowCal	0.005
26)	2,4'-DDE	7.183f	8.046	6874	57903	0.003	0.025 #
27)	trans-Non...	7.334	8.104	49990	24459	0.014	0.007 #
28)	2,4'-DDD	7.527	8.413	8613	8763	0.004	0.005
29)	2,4'-DDT	7.707	8.633	10288	14359	0.004	BelowCal #
30)	cis-Nonac...	7.800	8.681	8788	11659	0.002 Q-021	0.003 #
31)	Mirex	8.474	9.607	68582	232479 ~~8199.101~~		BelowCal #
32)	Chlordane...	7.237	8.046	61371	57903	0.153	0.133
33)	Chlordane...	7.334	8.148	49990	10945	0.103	0.030 #
34)	Chlordane...	7.884	8.828	8593	405930	0.066	3.418 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.334	8.383	49990	7514	3.054	0.255 #
37)	Toxaphene...	7.607	8.721	14443	5000	0.460 Q-021	0.124 #
38)	Toxaphene...	7.927	8.759	160798	177991 ~~96751.652~~		2.751 #
39)	Toxaphene...	8.143	8.828	269440	405930	BelowCal	0.037
40)	Toxaphene...	8.386	9.009	42873	67717	0.791	1.181 #
41)	Toxaphene...	8.439	9.381	30441	80724	0.400	1.222 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 15:12
Operator : MJB
Sample : 0B14020-CCB1
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.474min 8199.101 ng/mL Q Pc1

response 68582

MJB 2/14/20

(31) Mirex #2

9.607min -0.140 ng/mL

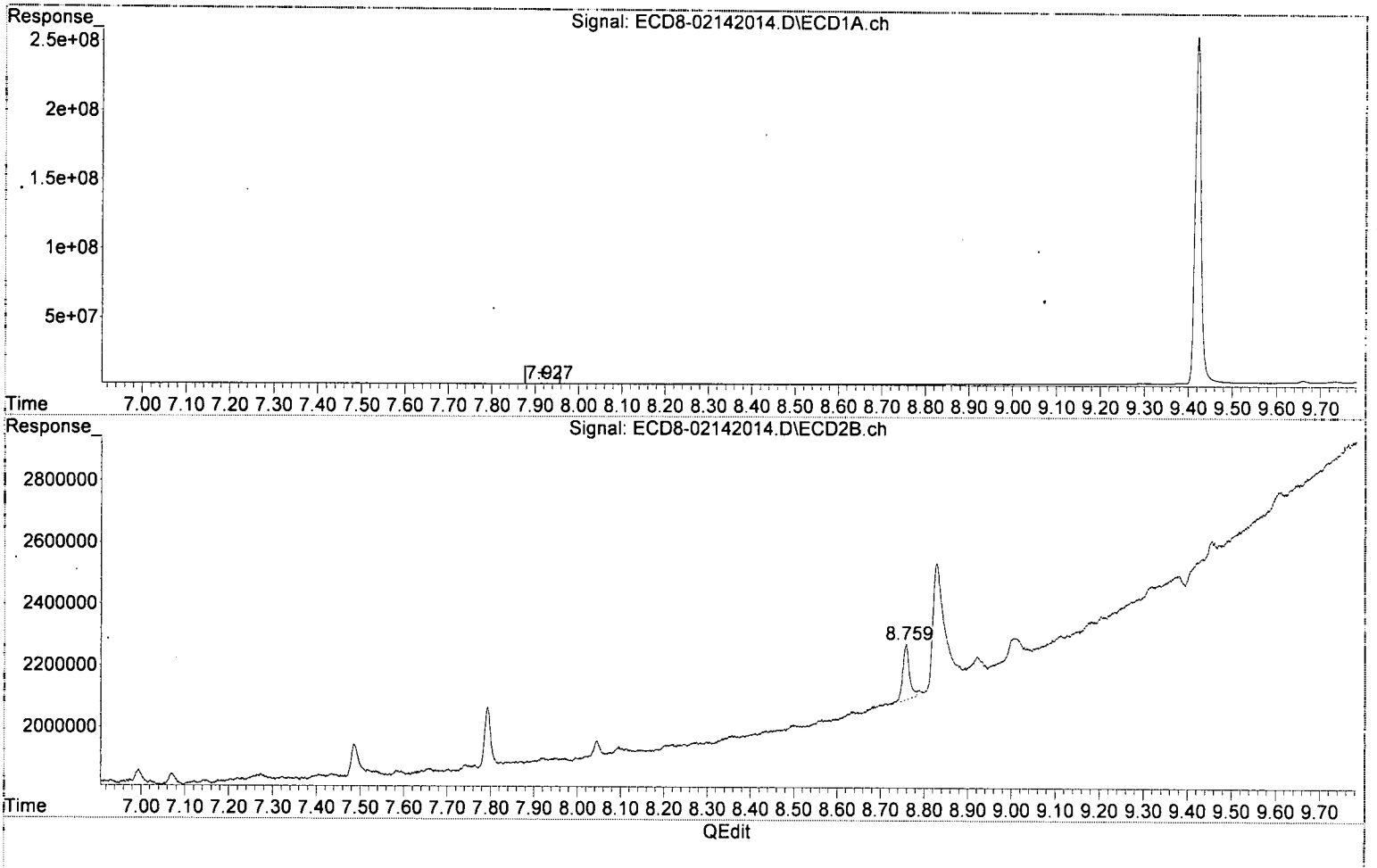
response 232479

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 15:12
Operator : MJB
Sample : 0B14020-CCB1
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(38) Toxaphene (3)

7.927min 96751.852 ng/mL

response 180798

(38) Toxaphene (3) #2

8.759min 2.751 ng/mL

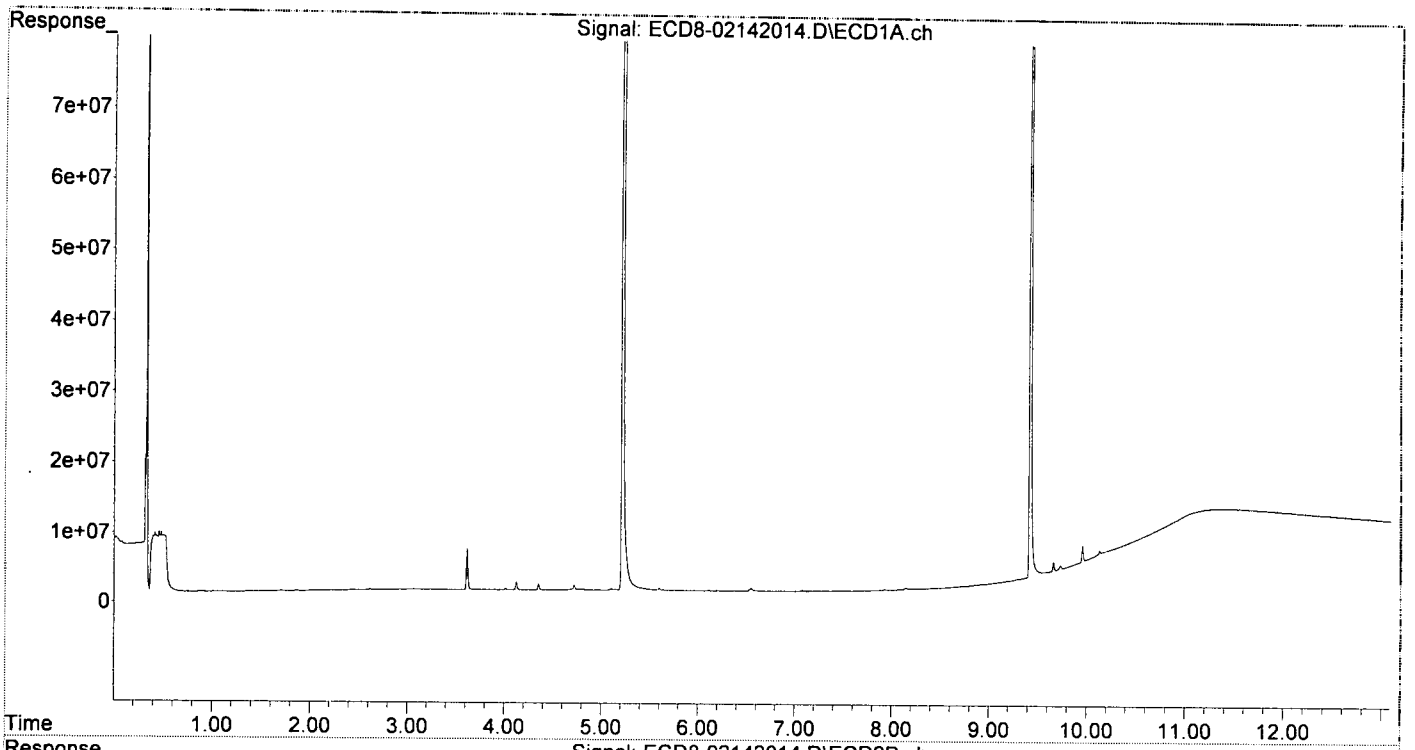
response 177991

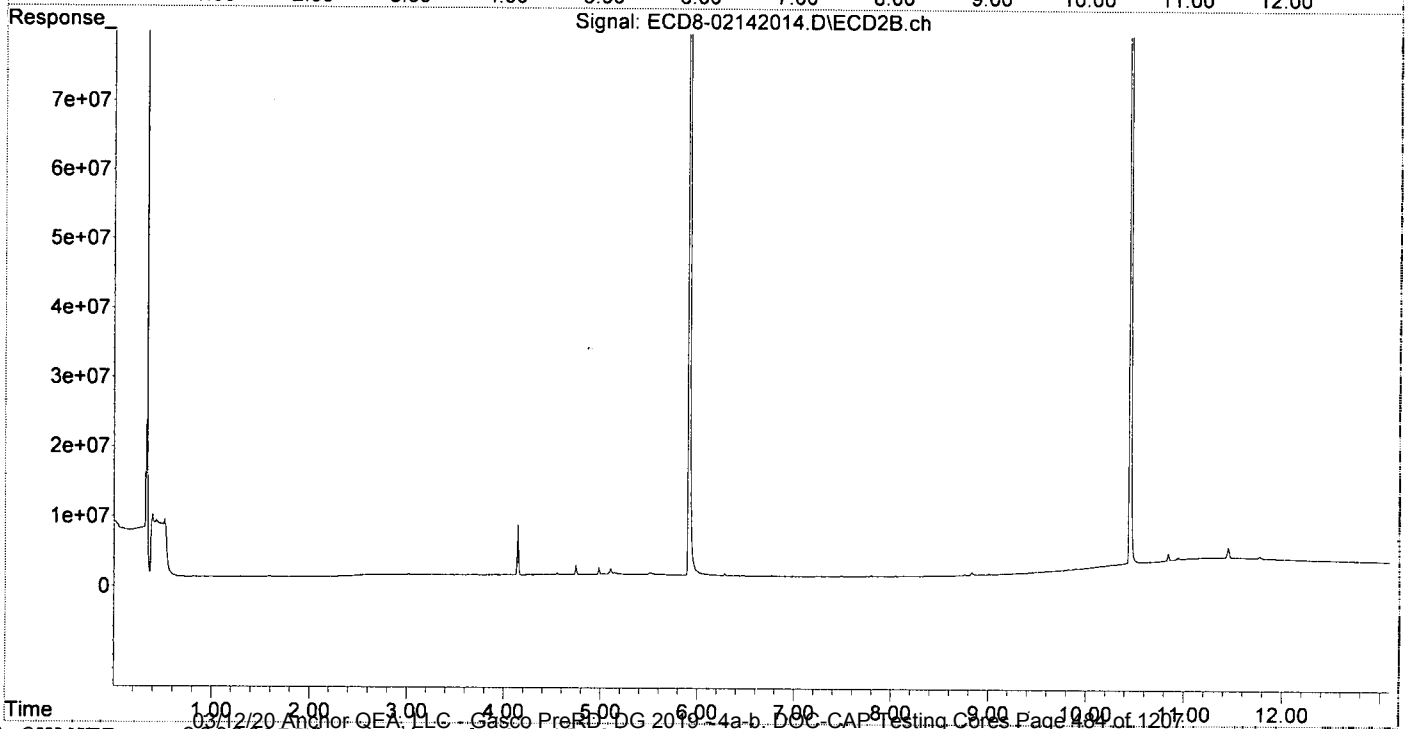
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 15:12
Operator : MJB
Sample : 0B14020-CCB1
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

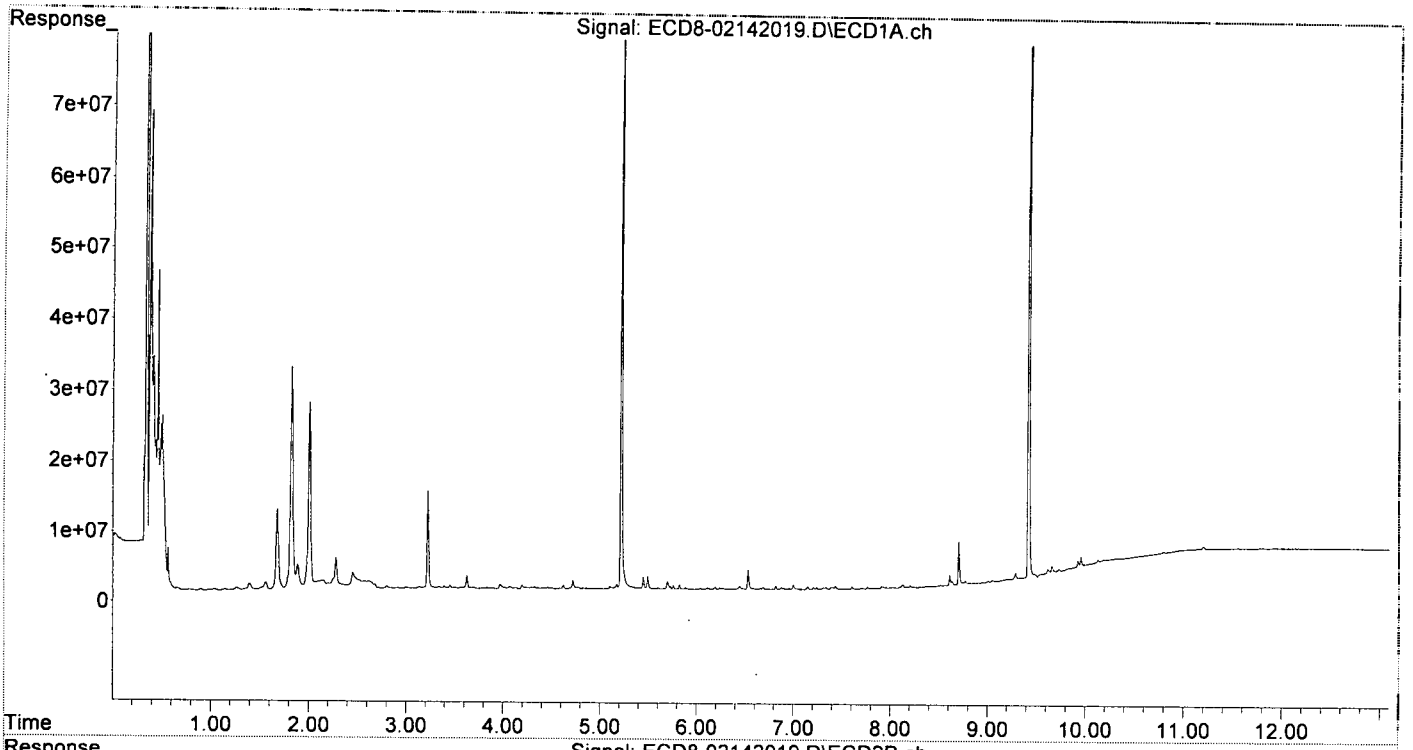
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.216	5.908	98014702	109.7E6	28.035	31.814
22)	S	DCBP (S)	9.418	10.448	135.4E6	118.9E6	51.450	55.169
		Target Compounds						
2)		a-BHC	5.756	6.510	571685	2995866	0.121	0.777 #
3)		g-BHC	6.035	6.829	194490	3158712	0.047	0.851 #
4)		b-BHC	6.109	6.881	248918	3156178	0.143	1.818 #
5)		Heptachlor	6.441	7.200	476675	3359523	0.116	0.798 #
6)		d-BHC	6.262	7.147	213766	3443663	0.168	1.079 #
7)		Aldrin	6.685	7.465	322559	3570643	0.080	0.965 #
8)		Heptachlo...	7.144	7.902	453066	3974886	0.123	1.107 #
9)		trans-Chl...	7.240	8.040	294995	4099115	0.078	1.102 #
10)		cis-Chlor...	7.336	8.149	285041	3979178	0.078	1.130 #
11)		Endosulfa...	7.433	8.199	513899	4154544	0.148	1.257 #
12)		4,4'-DDE	7.405	8.267	317859	467156	0.096	0.238m#
13)		Dieldrin	7.603	8.400	381367	4133765	0.100	1.211 #
14)		Endrin	7.766	8.628	305720	4261052	0.094	1.473 #
15)		4,4'-DDD	7.834	8.671	90610	359440	0.036m	0.197m#
16)		Endosulfa...	7.908	8.761	325904	4206133	0.109	1.561 #
17)		4,4'-DDT	8.026	8.893	147872	650011	0.055	0.240m#
18)		Endrin Al...	8.204	9.010	346220	4385922	0.132	1.659 #
19)		Endosulfa...	8.515	9.203	102423	4528820	0.036	1.719 #
20)		Methoxychlor	8.366	9.377	152588	4900437	0.126	4.214 #
21)		Endrin Ke...	8.702	9.607	6167836	5867783	1.784	1.854
23)		Hexachlor...	2.995	3.583f	210027	24725893	0.054	5.107 #
24)		Hexachlor...	5.596	6.389	269638	3557148	0.080	1.183 #
25)		Oxychlordane	7.099f	7.842	49124	3633103	BelowCal	1.136
26)		2,4'-DDE	7.144	8.039	453066	636184	0.196	0.280m#
27)		trans-Non...	7.336	8.089	285041	3800172	0.078	1.053 #
28)		2,4'-DDD	7.536	8.400	40080	549272	0.021m	0.287m#
29)		2,4'-DDT	7.707	8.628	123451	592503	0.052	0.229m#
30)		cis-Nonac...	7.802	8.672	75369	4065702	0.019	1.020 #
31)		Mirex	8.469	9.607	59753	5867783	8199.104	2.581 #
32)		Chlordane...	7.240	8.040	294995	4099115	0.737	9.435 #
33)		Chlordane...	7.336	8.149	285041	3979178	0.586	10.945 #
34)		Chlordane...	7.882	8.816	24292	4737269	0.187	39.891 #
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)		Toxaphene...	7.306	8.400f	237538	4133765	14.511	140.275 #
37)		Toxaphene...	7.603	8.738	381367	4167784	12.139	103.705 #
38)		Toxaphene...	7.908	8.761	325904	4206133	1.470	65.013 #
39)		Toxaphene...	8.170	8.816	114598	4737269	BelowCal	44.931
40)		Toxaphene...	8.392	9.010	63257	4385922	1.167	76.504 #
41)		Toxaphene...	8.441	9.377	26883	4900437	0.353	74.189 #
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

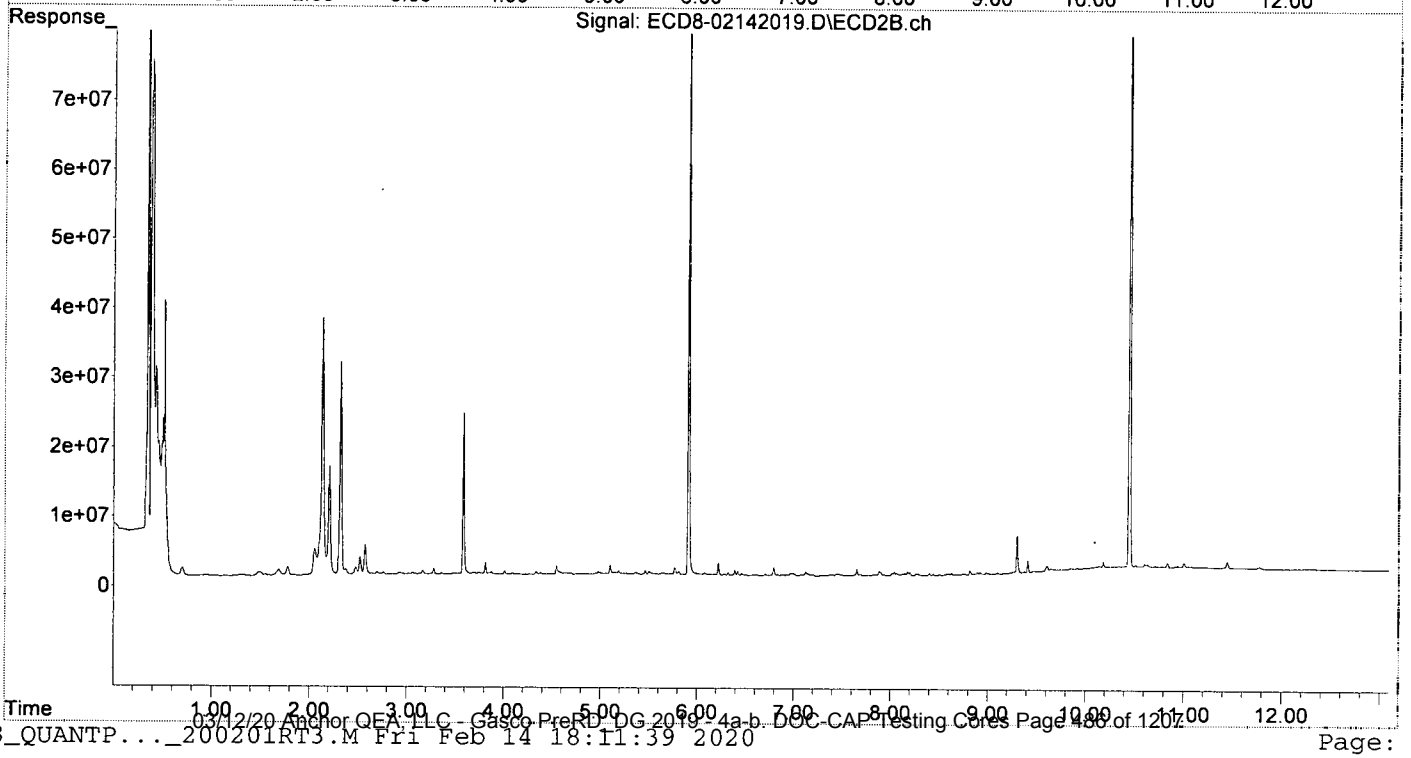
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

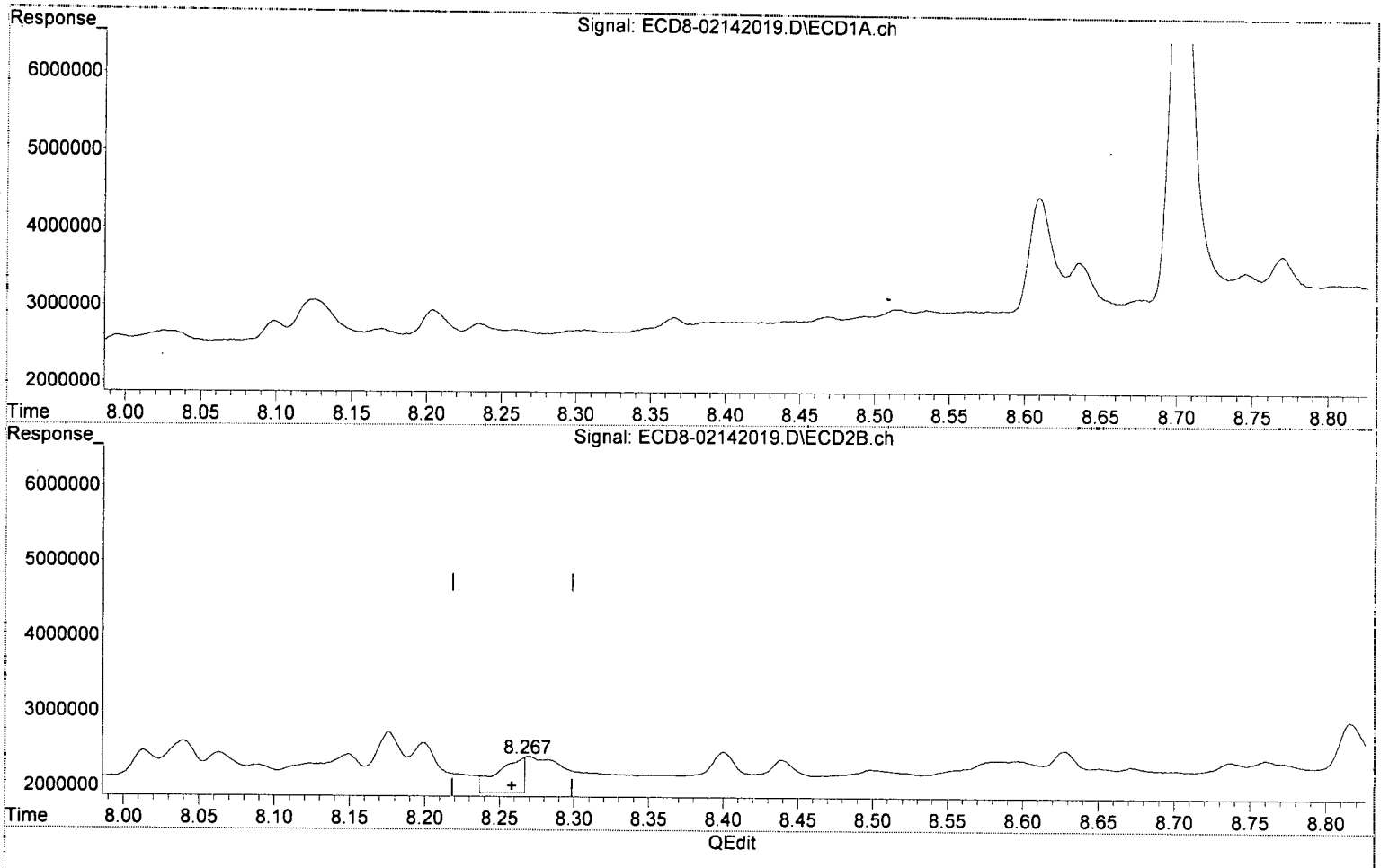




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE

7.405min 0.096 ng/mL

response 317859

MJB 2/14/20

(12) 4,4'-DDE #2

8.267min 0.238 ng/mL m

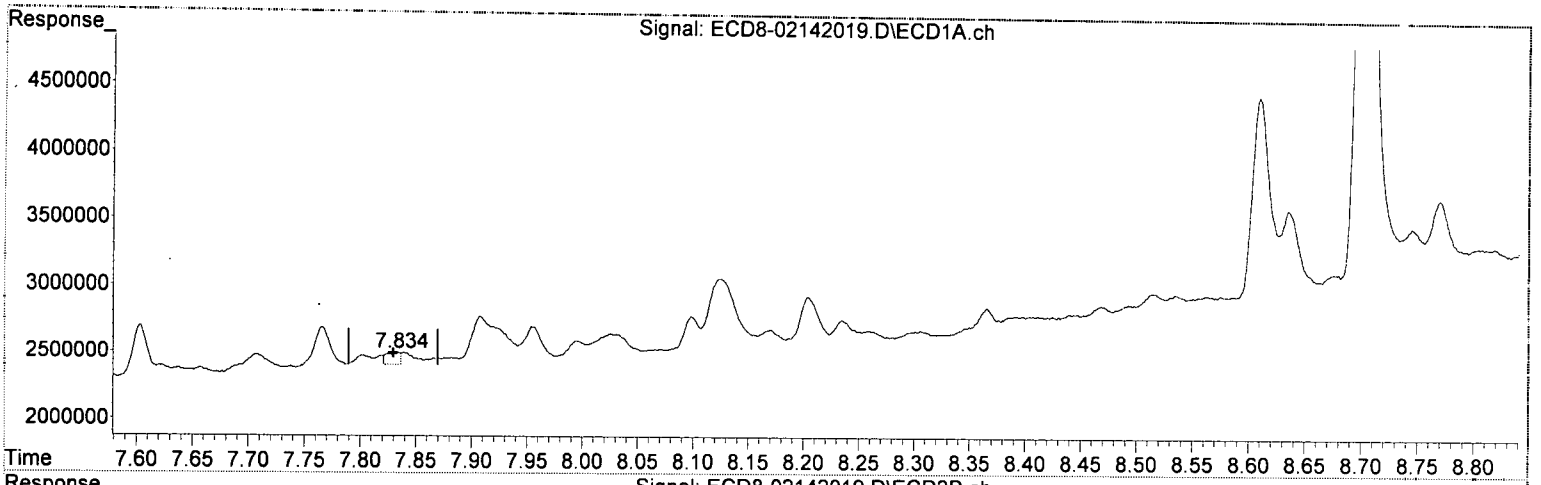
response 467156

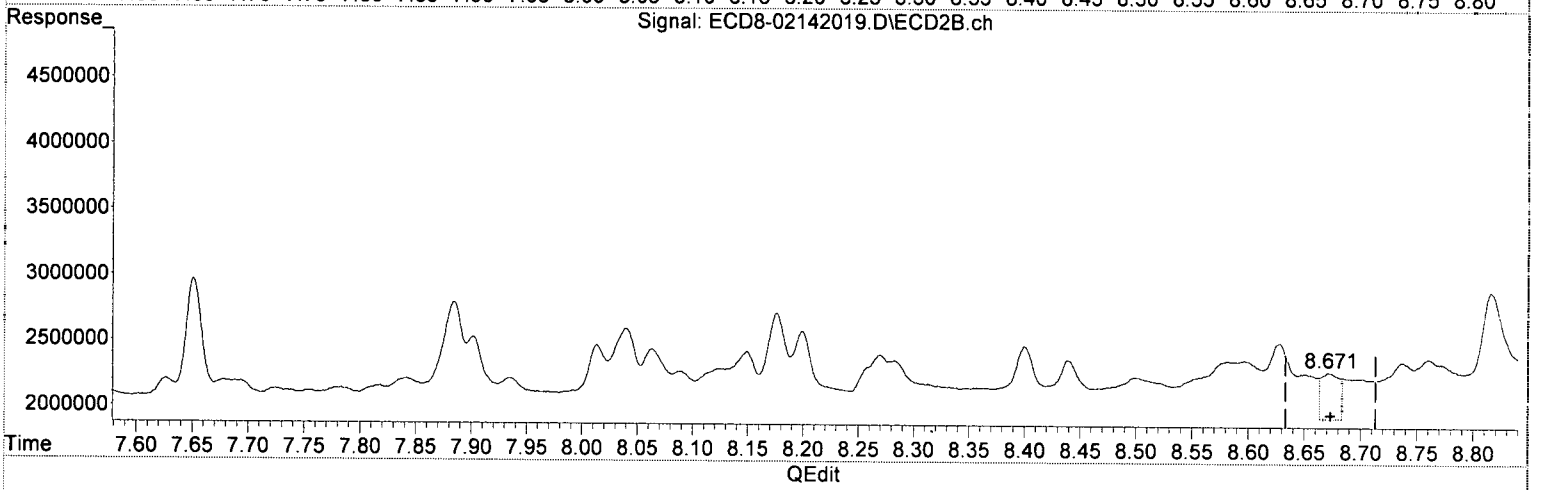
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(15) 4,4'-DDD

7.834min 0.036 ng/mL m

response 90610

MJB 2/14/20

(15) 4,4'-DDD #2

8.671min 0.197 ng/mL m

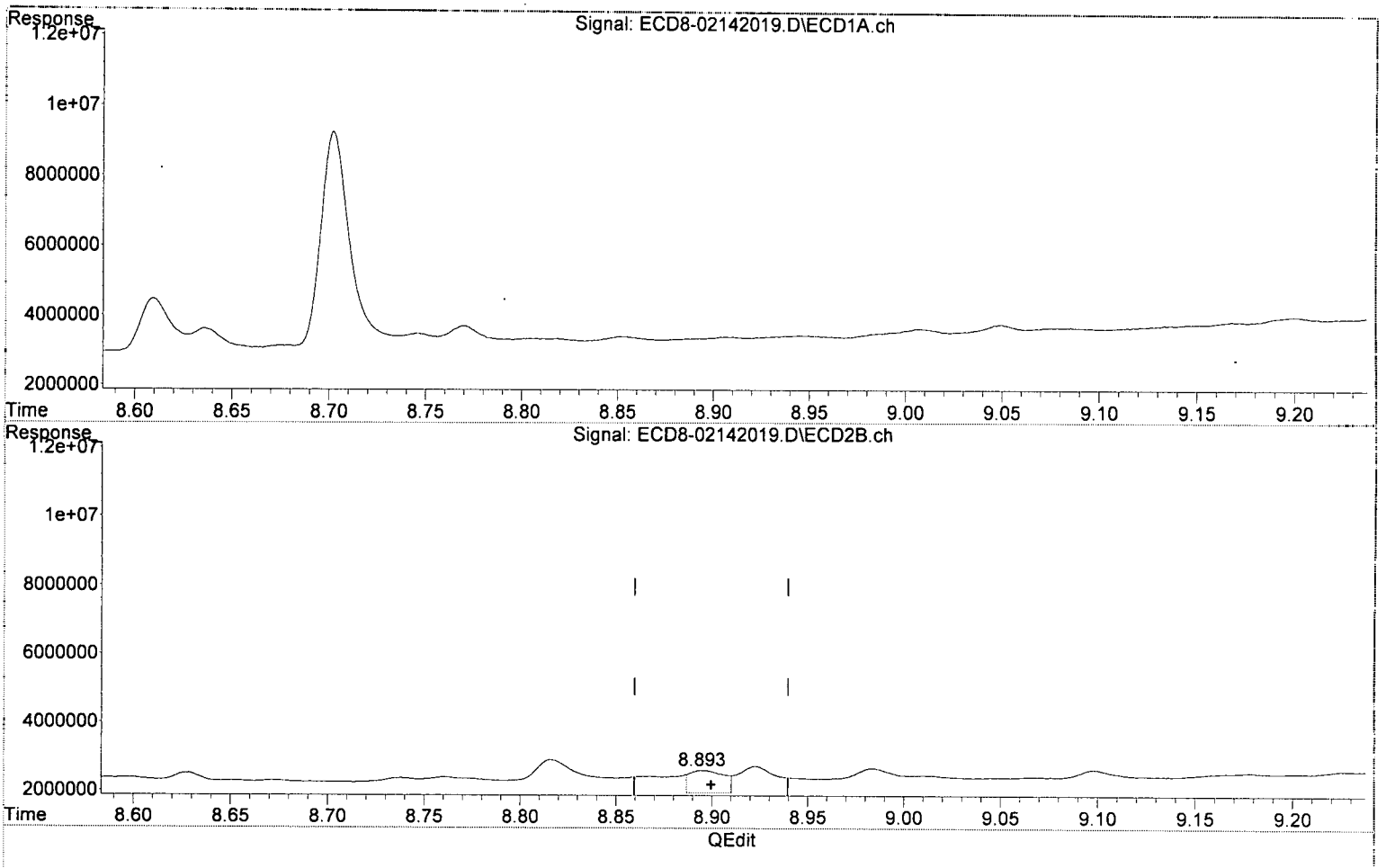
response 359440

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.026min 0.055 ng/mL

response 147872

MJB 2/14/20

(17) 4,4'-DDT #2

8.893min 0.240 ng/mL (m)

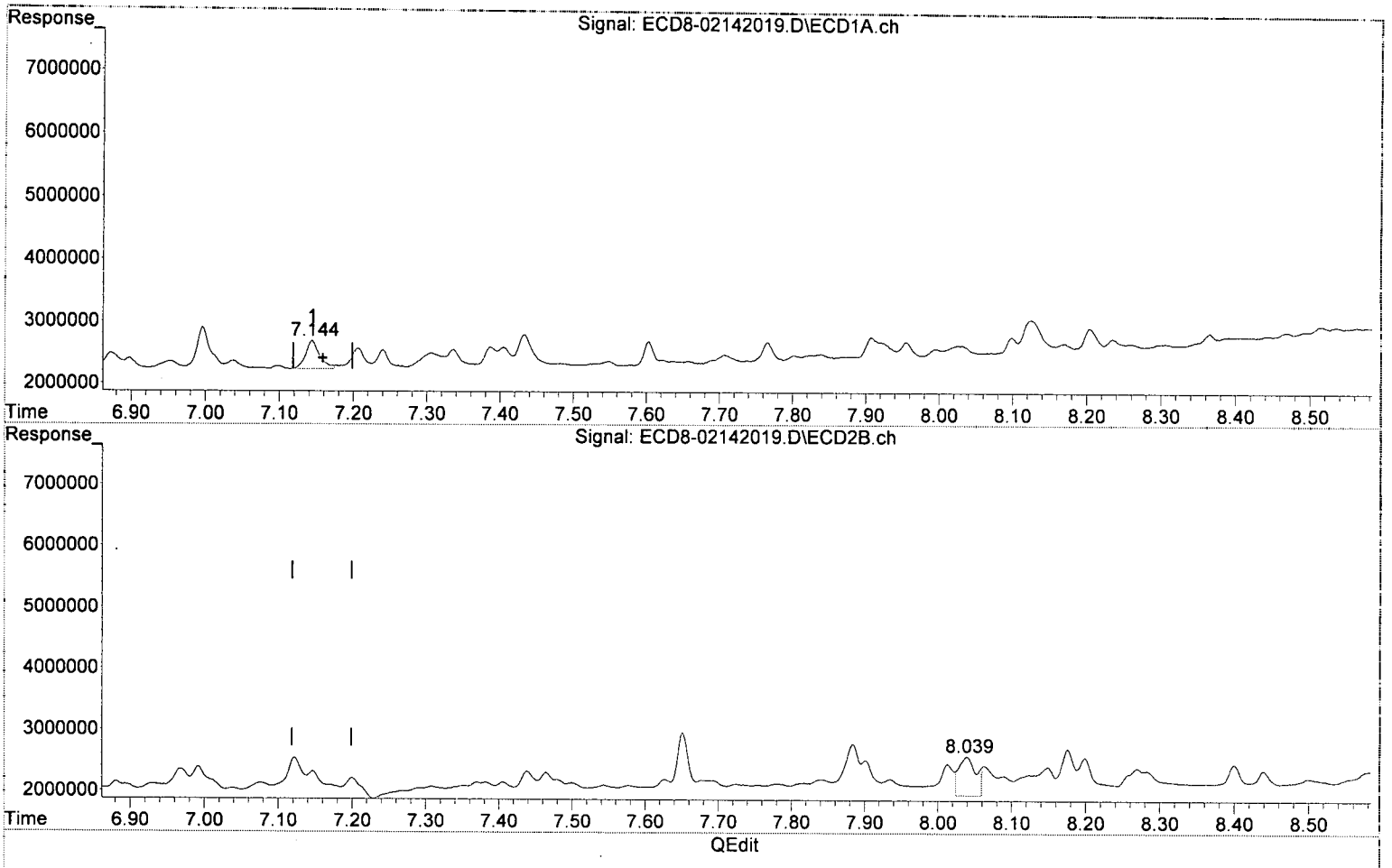
response 650011

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.144min 0.196 ng/mL

response 453066

MJB 2/14/20

(26) 2,4'-DDE #2

8.039min 0.280 ng/mL

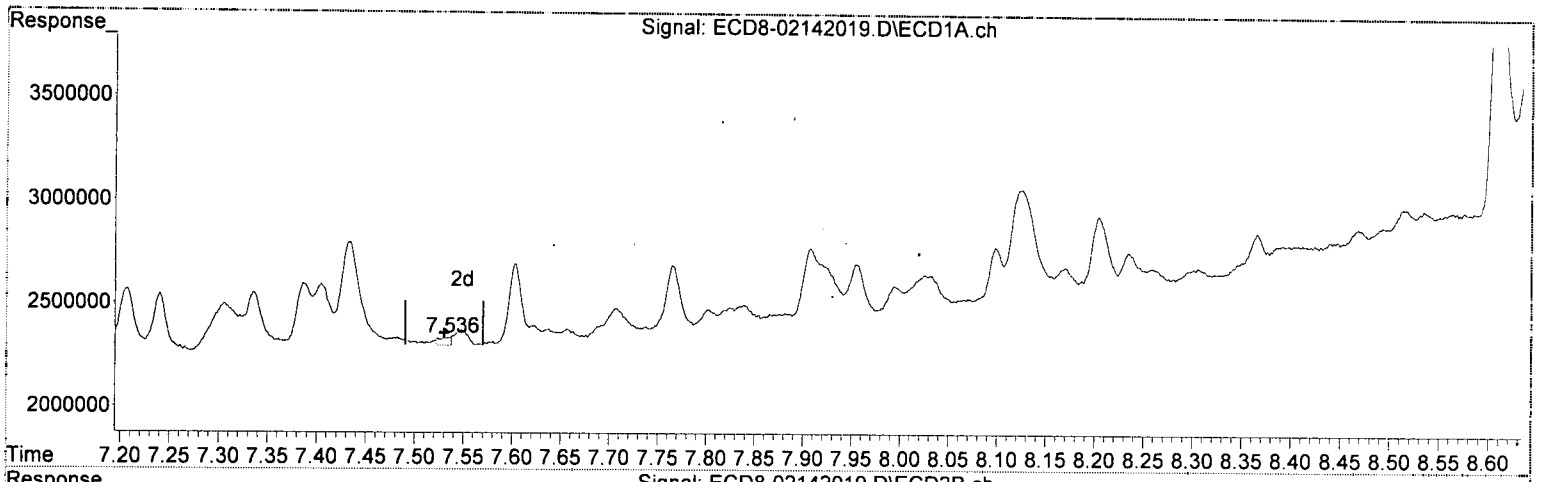
response 636184

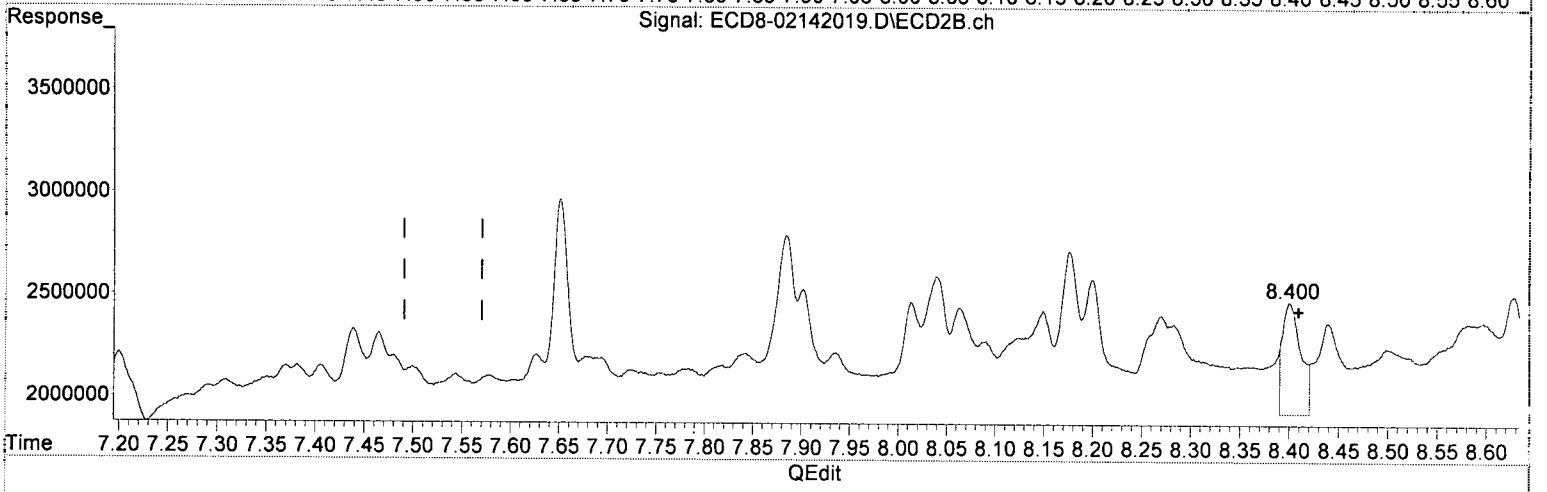
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(28) 2,4'-DDD

7.536min 0.021 ng/mL m

response 40080

MJB 2/14/20

(28) 2,4'-DDD #2

8.400min 0.287 ng/mL m

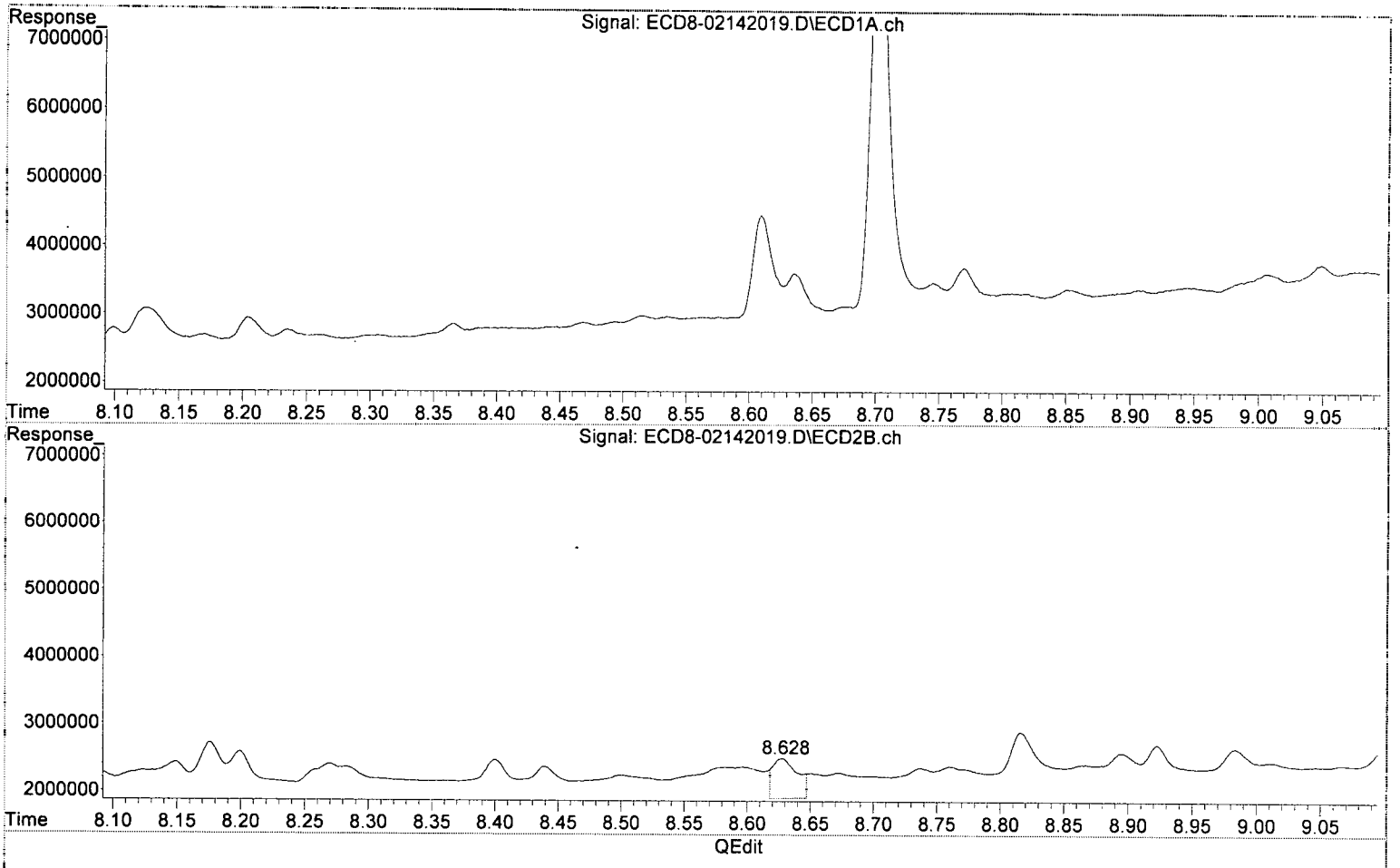
response 549272

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.707min 0.052 ng/mL

response 123451

MJB 2/14/20

(29) 2,4'-DDT #2

8.628min 0.229 ng/mL (m)

response 592503

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

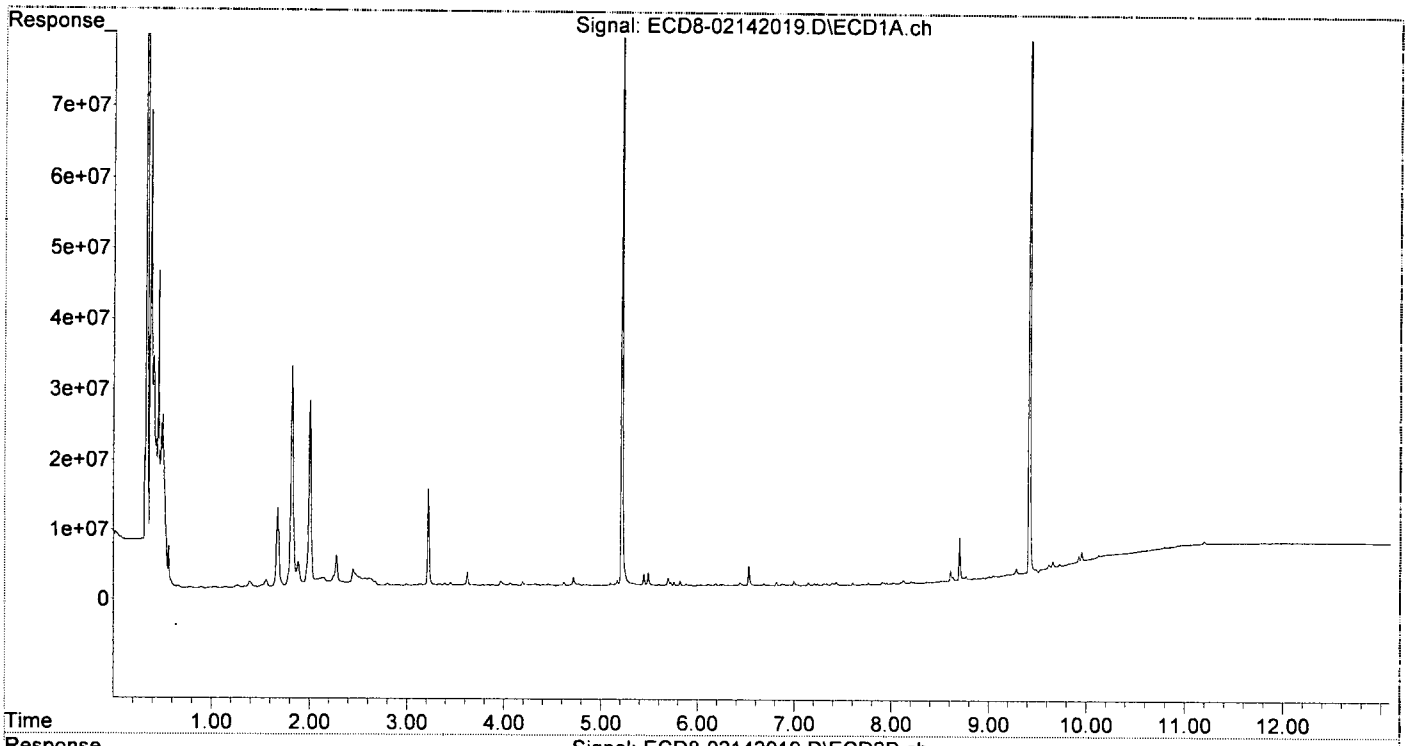
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.216	5.908	98014702	109.7E6	28.035	31.814	
22)	S	DCBP (S)	9.418	10.448	135.4E6	118.9E6	51.450	55.169	
		Target Compounds							
2)		a-BHC	5.756	6.510	571685	2985866	0.121	0.777	#
3)		g-BHC	6.035	6.829	194490	3158712	0.047	0.851	#
4)		b-BHC	6.109	6.881	248918	3156178	0.143	1.818	#
5)		Heptachlor	6.441	7.200	476675	3359523	0.116	0.798	#
6)		d-BHC	6.262	7.147	213766	3443663	0.168	1.079	#
7)		Aldrin	6.685	7.465	322559	3570643	0.080	0.965	#
8)		Heptachlo...	7.144	7.902	453066	3974886	0.123	1.107	#
9)		trans-Chl...	7.240	8.040	294995	4099115	0.078	1.102	#
10)		cis-Chlor...	7.336	8.149	285041	3979178	0.078	1.130	#
11)		Endosulfa...	7.433	8.199	513899	4154544	0.148	1.257	#
12)		4,4'-DDE	7.405	8.270	317859	4008242	0.096	1.373	#
13)		Dieldrin	7.603	8.400	381367	4133765	0.100	1.211	#
14)		Endrin	7.766	8.628	305720	4261052	0.094	1.473	#
15)		4,4'-DDD	7.825	8.672	76651	4065702	0.030	1.777	#
16)		Endosulfa...	7.908	8.761	325904	4206133	0.109	1.561	#
17)		4,4'-DDT	8.026	8.895	147872	4464914	0.055	1.789	#
18)		Endrin Al...	8.204	9.010	346220	4385922	0.132	1.659	#
19)		Endosulfa...	8.515	9.203	102423	4528820	0.036	1.719	#
20)		Methoxychlor	8.366	9.377	152588	4900437	0.126	4.214	#
21)		Endrin Ke...	8.702	9.607	6167836	5867783	1.784	1.854	
23)		Hexachlor...	2.995	3.583f	210027	24725893	0.054	5.107	#
24)		Hexachlor...	5.596	6.389	269638	3557148	0.080	1.183	#
25)		Oxychlordane	7.099f	7.842	49124	3633103	BelowCal	1.136	
26)		2,4'-DDE	7.144	8.040	453066	4099115	0.196	1.803	#
27)		trans-Non...	7.336	8.089	285041	3800172	0.078	1.053	#
28)		2,4'-DDD	7.524	8.400	35980	4133765	0.019	2.159	#
29)		2,4'-DDT	7.707	8.628	123451	4261052	0.052	1.946	#
30)		cis-Nonac...	7.802	8.672	75369	4065702	0.019	1.020	#
31)		Mirex	8.469	9.607	59753	5867783	8199.104	2.581	#
32)		Chlordane...	7.240	8.040	294995	4099115	0.737	9.435	#
33)		Chlordane...	7.336	8.149	285041	3979178	0.586	10.945	#
34)		Chlordane...	7.882	8.816	24292	4737269	0.187	39.891	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.306	8.400f	237538	4133765	14.511	140.275	#
37)		Toxaphene...	7.603	8.738	381367	4167784	12.139	103.705	#
38)		Toxaphene...	7.908	8.761	325904	4206133	1.470	65.013	#
39)		Toxaphene...	8.170	8.816	114598	4737269	BelowCal	44.931	
40)		Toxaphene...	8.392	9.010	63257	4385922	1.167	76.504	#
41)		Toxaphene...	8.441	9.377	26883	4900437	0.353	74.189	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

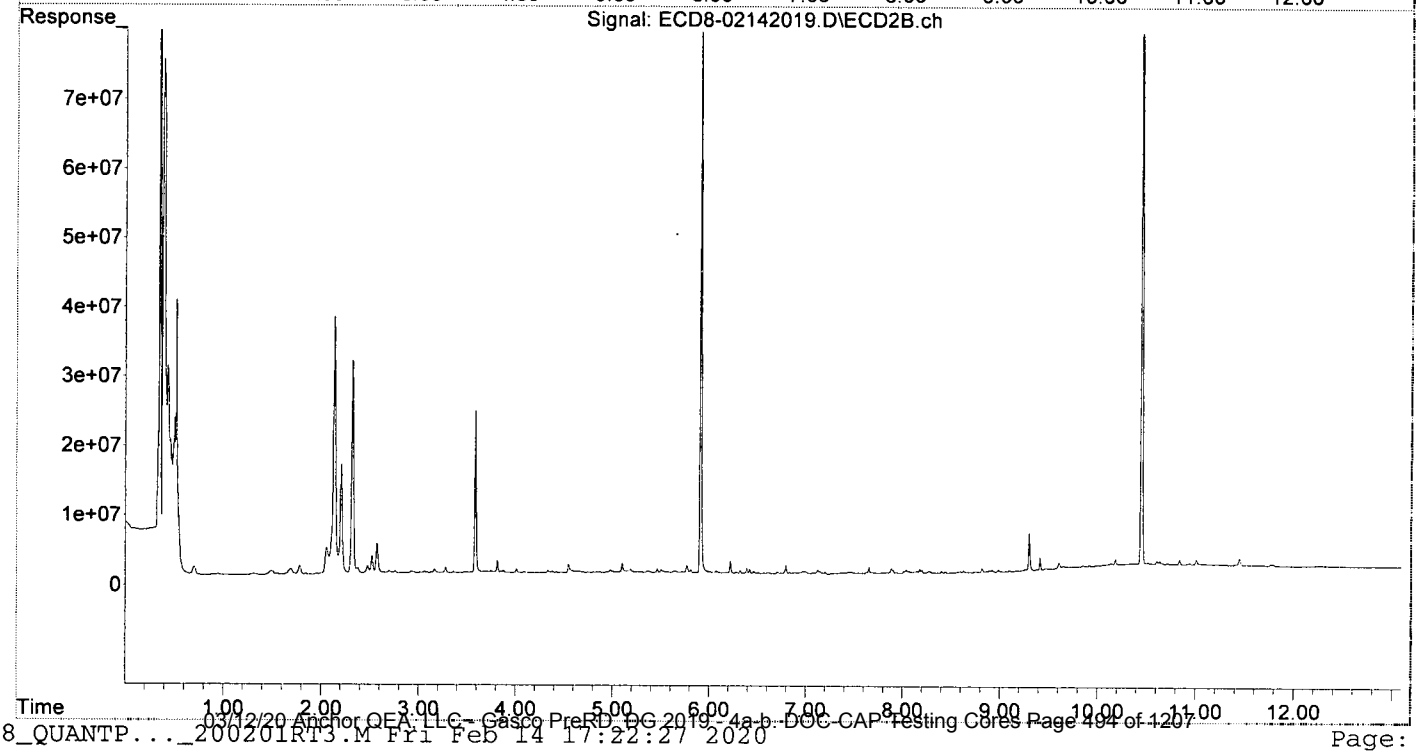
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:37
Operator : MJB
Sample : 0020105-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:53
Operator : MJB
Sample : 0020105-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJP 2/14/20

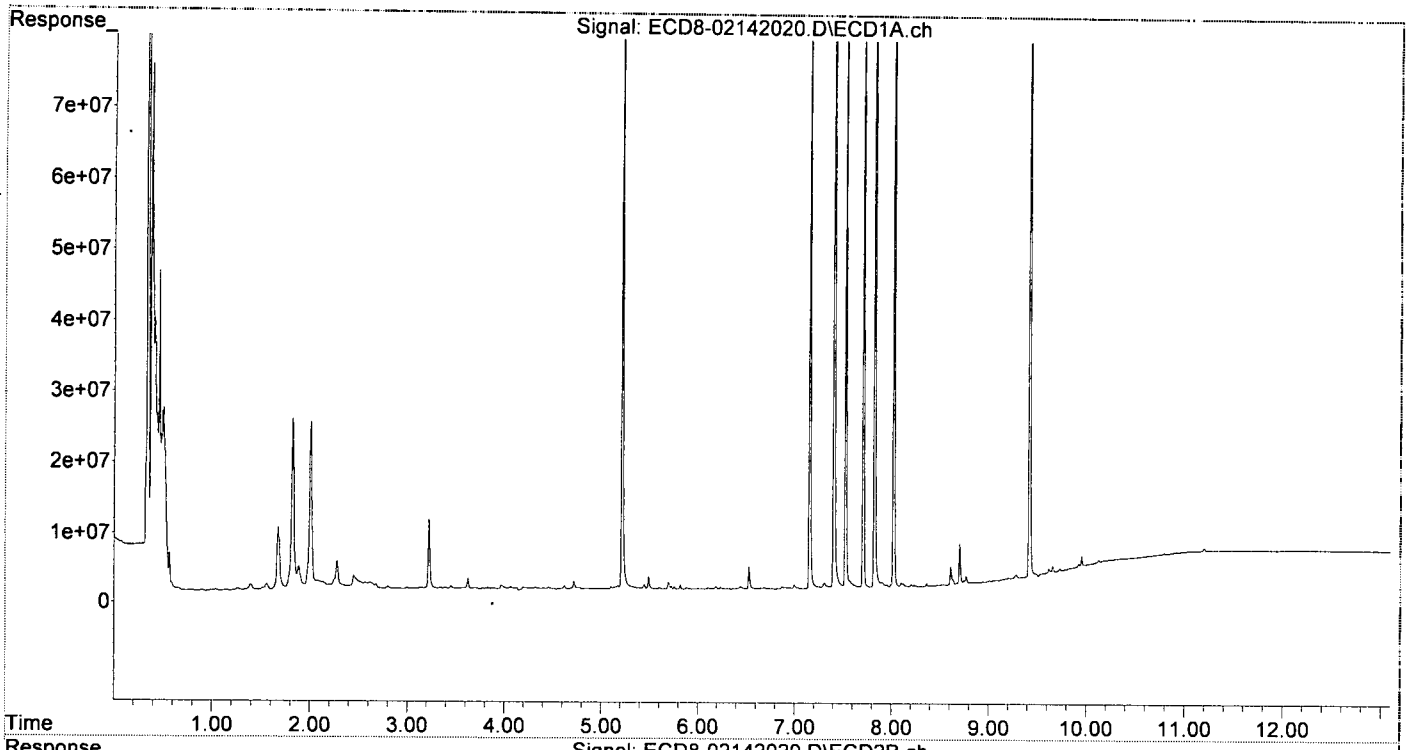
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.215	5.908	96437712	105.6E6	27.584	30.600	
22)	S	DCBP (S)	9.418	10.448	135.1E6	115.7E6	51.347	53.723	
		Target Compounds							
2)		a-BHC	5.757	6.509	494548	160497	0.105	0.113	
3)		g-BHC	6.040	6.838	126143	217110	0.030	0.098	#
4)		b-BHC	6.107	6.881	295796	271464	0.170	0.156	
5)		Heptachlor	6.438	7.199	458942	197579	0.112	0.047	#
6)		d-BHC	6.266	7.122f	128801	656346	0.144	0.285	#
7)		Aldrin	6.688	7.463	258049	252779	0.064	0.080	
8)		Heptachlo...	7.154	7.884	92858771	826225	25.146	0.230	#
9)		trans-Chl...	7.264f	8.035	276764	95468177	0.074	25.675	#
10)		cis-Chlor...	7.308f	8.127f	785492	321385	0.214	0.091	#
11)		Endosulfa...	7.405f	8.174f	155.0E6	900503	44.696	0.272	#
12)		4,4'-DDE	7.405	8.256	155.0E6	158.9E6	46.687	46.735	
13)		Dieldrin	7.569f	8.408	1100671	90177902	0.289	24.895	#
14)		Endrin	0.000	8.632	0	103.7E6	N.D.	34.217	#
15)		4,4'-DDD	7.824	8.672	134.1E6	144.8E6	52.704	54.177	
16)		Endosulfa...	7.905f	8.779	789366	307842	0.264	0.086	#
17)		4,4'-DDT	8.022	8.898	131.8E6	137.2E6	49.033	49.626	
18)		Endrin Al...	8.204	9.021	367081	212020	0.139	0.080	#
19)		Endosulfa...	8.513	9.225f	123484	265291	0.043	0.017	#
20)		Methoxychlor	8.364	9.378	482002	740962	0.399	0.325	
21)		Endrin Ke...	8.702	9.607	5849831	1755793	1.692	0.400	#
23)		Hexachlor...	2.996	3.583f	453027	18704064	0.116	3.863	#
24)		Hexachlor...	5.596	6.388	342495	890747	0.102	0.256	#
25)		Oxychlordane	7.059	7.835	117187	241524	BelowCal	0.076	
26)		2,4'-DDE	7.154	8.035	92858771	95468177	40.162	42.001	
27)		trans-Non...	7.308f	8.127f	785492	321385	0.214	0.089	#
28)		2,4'-DDD	7.525	8.408	90560821	90177902	46.758	47.108	
29)		2,4'-DDT	7.707	8.632	102.0E6	103.7E6	42.612	44.860	
30)		cis-Nonac...	7.824f	8.672	134.1E6	144.8E6	32.960	36.336	
31)		Mirex	8.470	9.607	62261	1755793	8199.103	0.596	#
32)		Chlordane...	7.264f	8.035	276764	95468177	0.691	219.732	#
33)		Chlordane...	7.308f	8.174f	785492	900503	1.615	2.477	#
34)		Chlordane...	7.905f	8.816	789366	702746	6.063	5.918	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.408f	785492	90177902	47.985	3060.098	#
37)		Toxaphene...	7.569f	8.735	1100671	346473	35.036	8.621	#
38)		Toxaphene...	7.905	8.760	789366	453170	8.054	7.005	
39)		Toxaphene...	8.169	8.816	104585	702746	BelowCal	3.123	
40)		Toxaphene...	8.364	9.021	482002	212020	8.893	3.698	#
41)		Toxaphene...	8.470	9.378	62261	740962	0.819	11.218	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

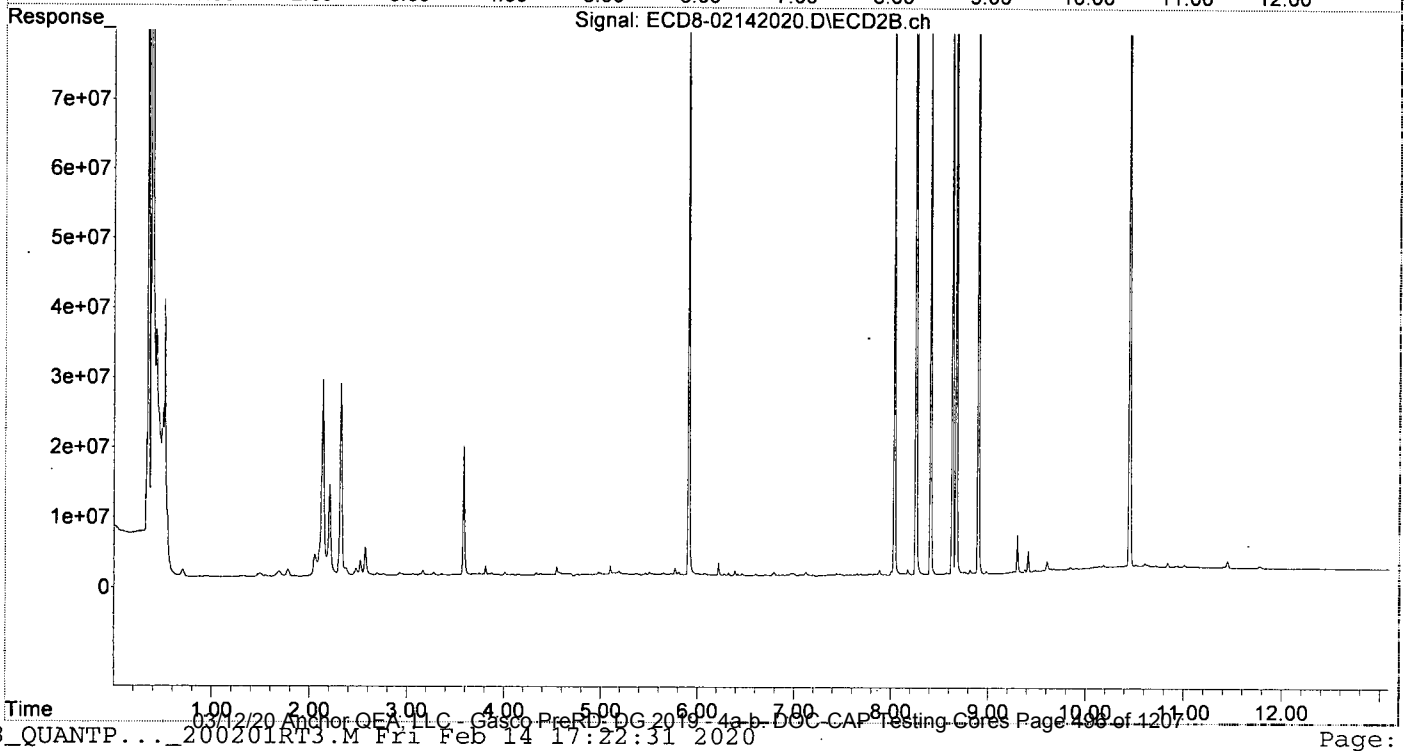
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 16:53
Operator : MJB
Sample : 0020105-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 17:22:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

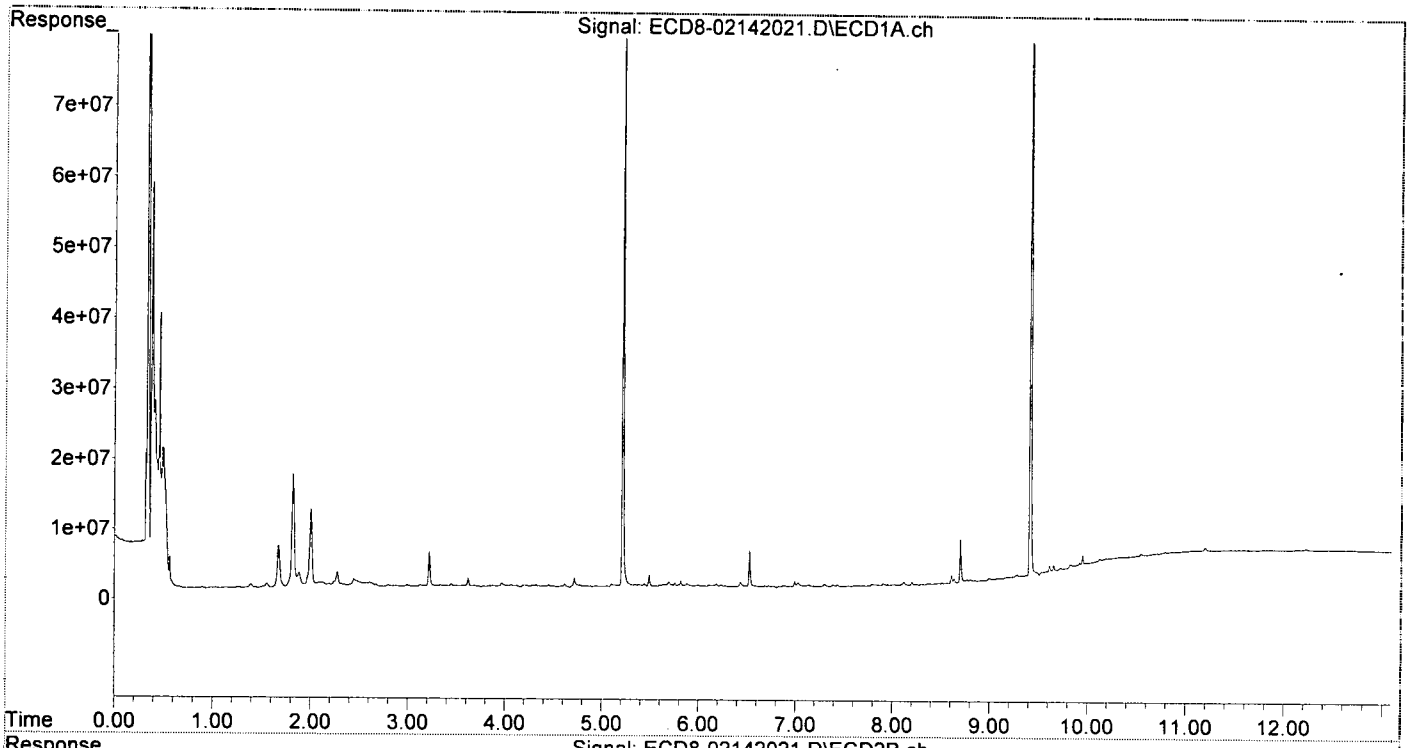
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.214	5.907	83264687	90714837	23.816	26.298	
22)	S	DCBP (S)	9.417	10.448	124.1E6	112.7E6	47.235	52.388	
		Target Compounds							
2)		a-BHC	5.756	6.515	600952	3063125	0.127	0.793	#
3)		g-BHC	6.064f	6.820	167769	3154596	0.040	0.849	#
4)		b-BHC	6.108	6.907	322818	3096879	0.185	1.784	#
5)		Heptachlor	6.434	7.195	779093	3296880	0.190	0.783	#
6)		d-BHC	6.267	7.173f	159780	3316491	0.153	1.043	#
7)		Aldrin	6.687	7.481	210395	3491297	0.052	0.944	#
8)		Heptachlo...	7.150	7.884	233557	4445062	0.063	1.238	#
9)		trans-Chl...	7.252	8.032	85197	4083999	0.023	1.098	#
10)		cis-Chlor...	7.361f	8.175f	56142	4291883	0.015	1.218	#
11)		Endosulfa...	7.438	8.175f	261627	4291883	0.075	1.299	#
12)		4,4'-DDE	7.388f	8.268	215250	616600	0.065	0.286m	#
13)		Dieldrin	7.625	8.405	103506	4069481	0.027	1.193	#
14)		Endrin	7.757	8.630	89091	4080198	0.027	1.410	#
15)		4,4'-DDD	7.832	8.668	174200	348630	0.068m	0.192m	#
16)		Endosulfa...	7.905	8.788	363687	4128796	0.122	1.532	#
17)		4,4'-DDT	8.030	8.919	144051	635594	0.054	0.234m	#
18)		Endrin Al...	8.203	9.016	468173	4318468	0.178	1.633	#
19)		Endosulfa...	8.514	9.224f	181594	4605268	0.063	1.749	#
20)		Methoxychlor	8.365	9.376	210320	4867452	0.174	4.184	#
21)		Endrin Ke...	8.702	9.606	6099364	5585330	1.765	1.754	
23)		Hexachlor...	2.995	3.625	417759	1790804	0.107	0.370	#
24)		Hexachlor...	5.595	6.388	265405	3762942	0.079	1.255	#
25)		Oxychlordane	7.090	7.841	194230	4298589	BelowCal	1.344	
26)		2,4'-DDE	7.150	8.031	233557	664478	0.101	0.292m	#
27)		trans-Non...	7.302f	8.122	346609	3956754	0.095	1.096	#
28)		2,4'-DDD	7.544	8.404	99370	485706	0.051	0.254m	#
29)		2,4'-DDT	7.705	8.588f	80486	437864	0.034	0.157m	#
30)		cis-Nonac...	7.795	8.669	266160	4038727	0.065	1.013	#
31)		Mirex	8.467	9.606	88129	5585330	8199.093	2.444	#
32)		Chlordane...	7.252	8.032	85197	4083999	0.213	9.400	#
33)		Chlordane...	7.361f	8.175f	56142	4291883	0.115	11.805	#
34)		Chlordane...	7.880	8.815	56537	4762295	0.434	40.102	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.302	8.405f	346609	4069481	21.174	138.094	#
37)		Toxaphene...	7.625	8.737	103506	4186514	3.295	104.171	#
38)		Toxaphene...	7.905	8.763	363687	4220268	2.007	65.232	#
39)		Toxaphene...	8.163	8.815	66284	4762295	BelowCal	45.189	
40)		Toxaphene...	8.386	9.016	132578	4318468	2.446	75.328	#
41)		Toxaphene...	8.439	9.376	49475	4867452	0.651	73.689	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

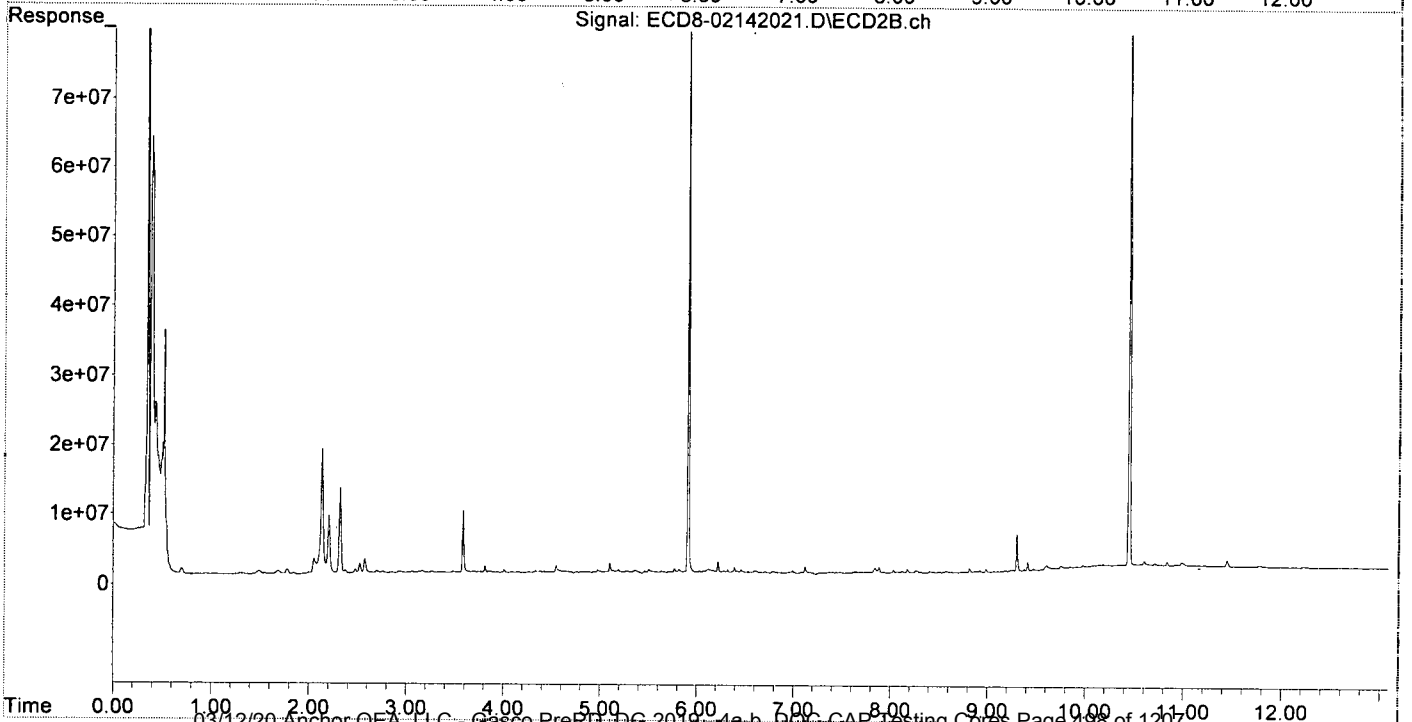
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

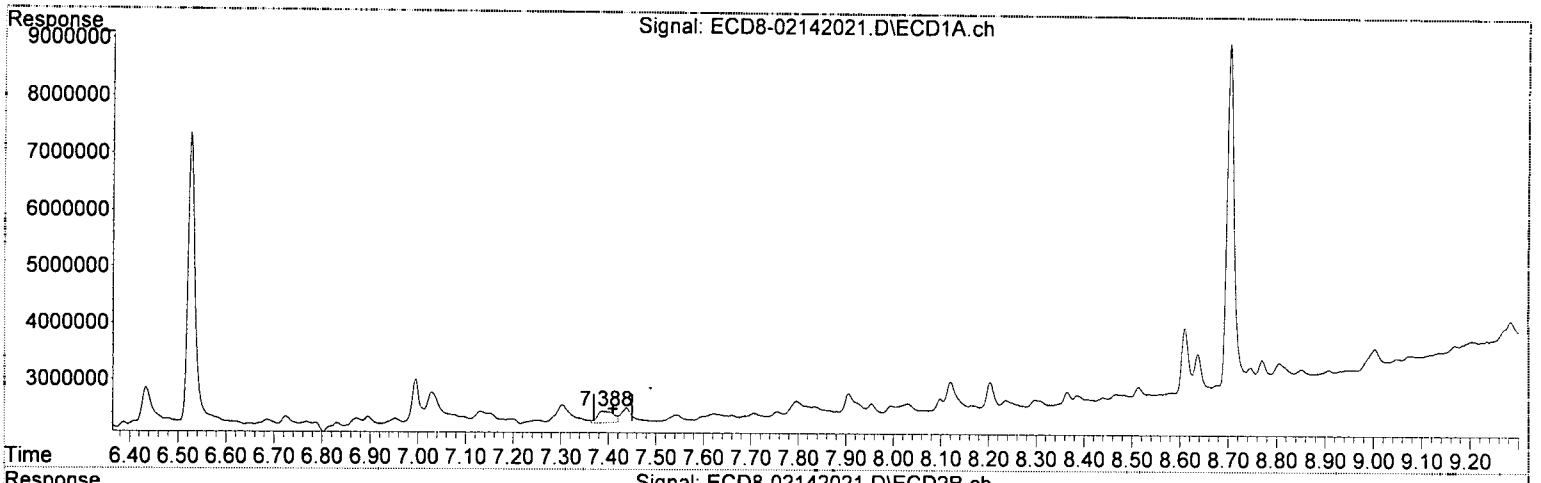


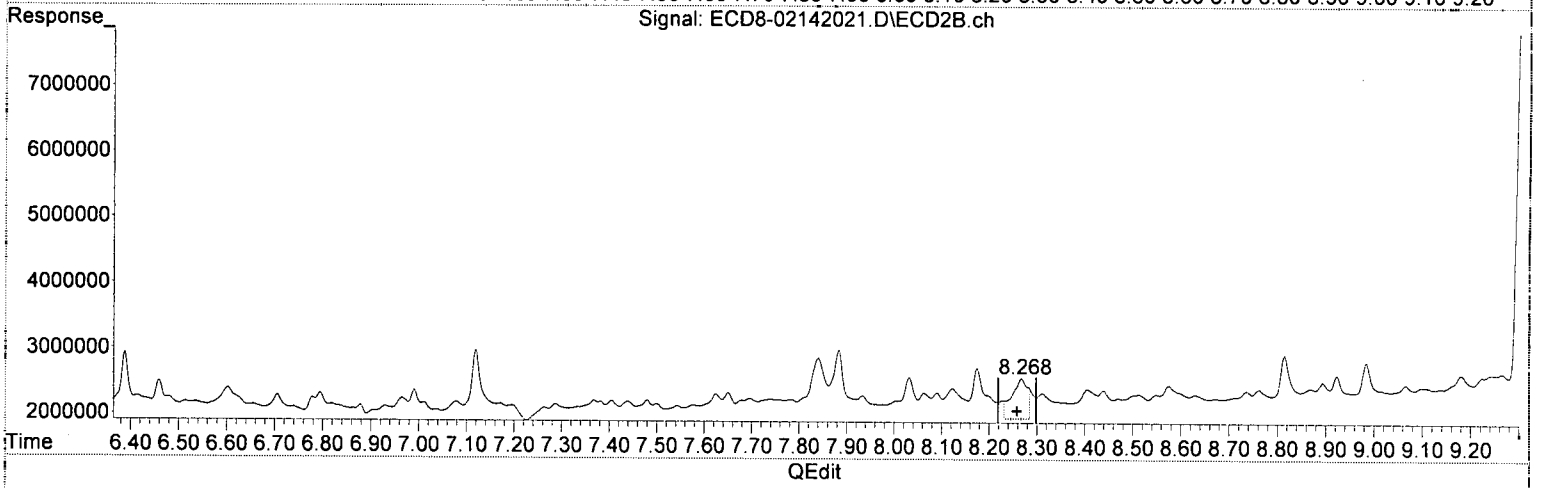


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(12) 4,4'-DDE

7.388min 0.065 ng/mL

response 215250

MJB 2/14/20

(12) 4,4'-DDE #2

8.268min 0.286 ng/mL (m)

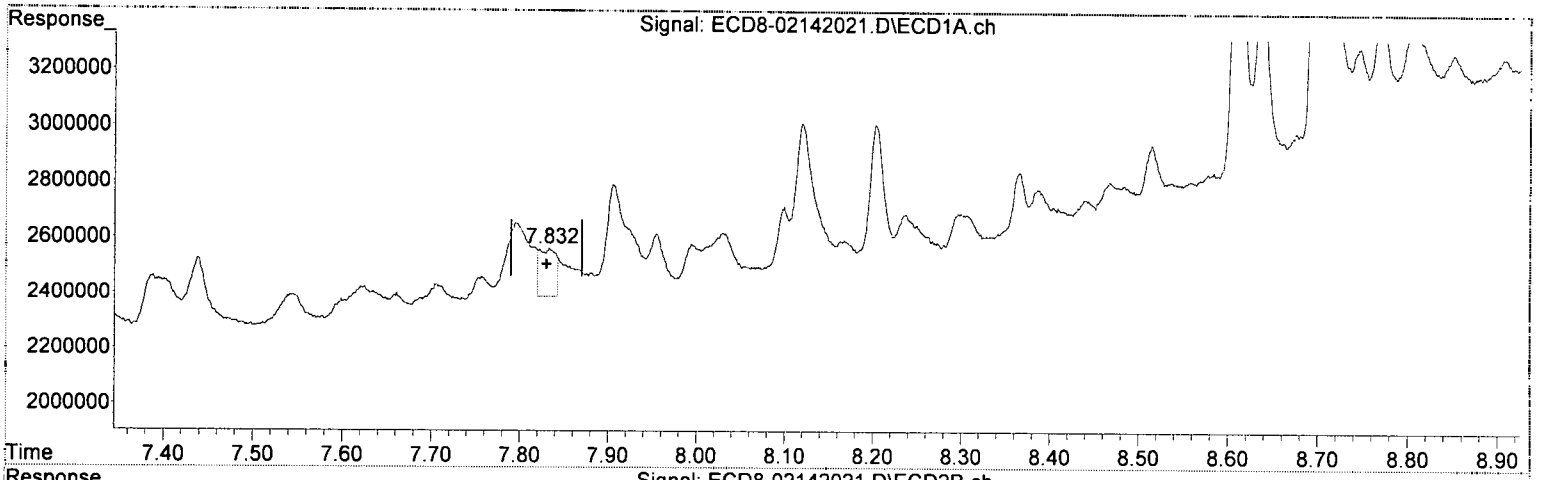
response 616600

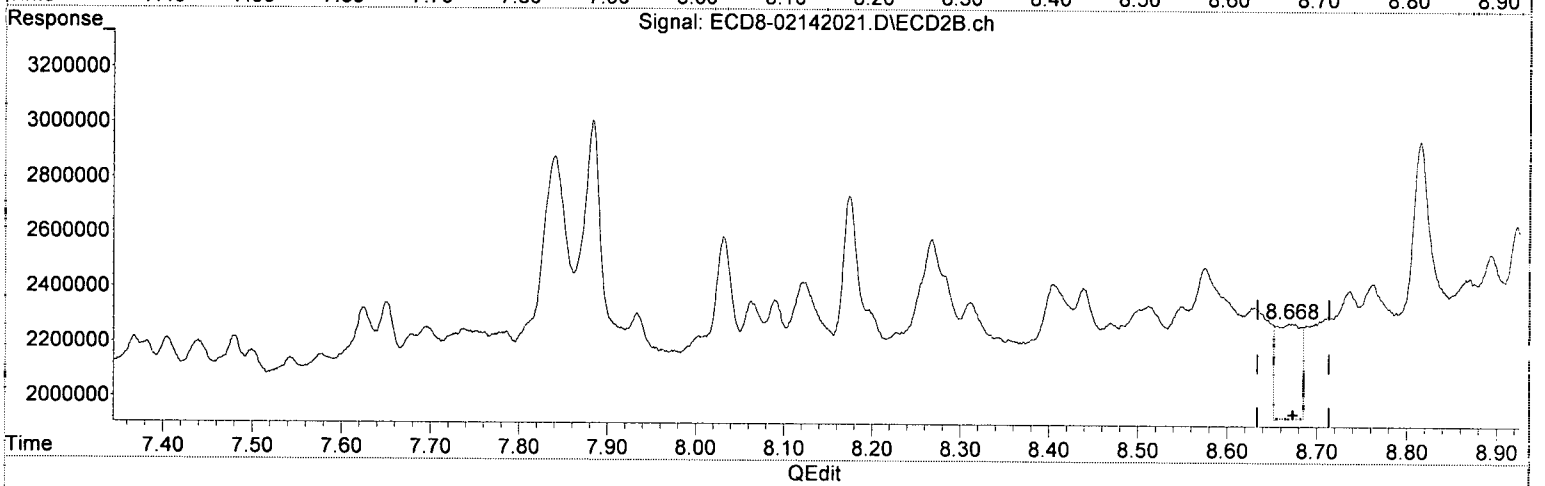
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(15) 4,4'-DDD

7.832min 0.068 ng/mL (m)

response 174200

MJB 2/14/20

(15) 4,4'-DDD #2

8.668min 0.192 ng/mL (m)

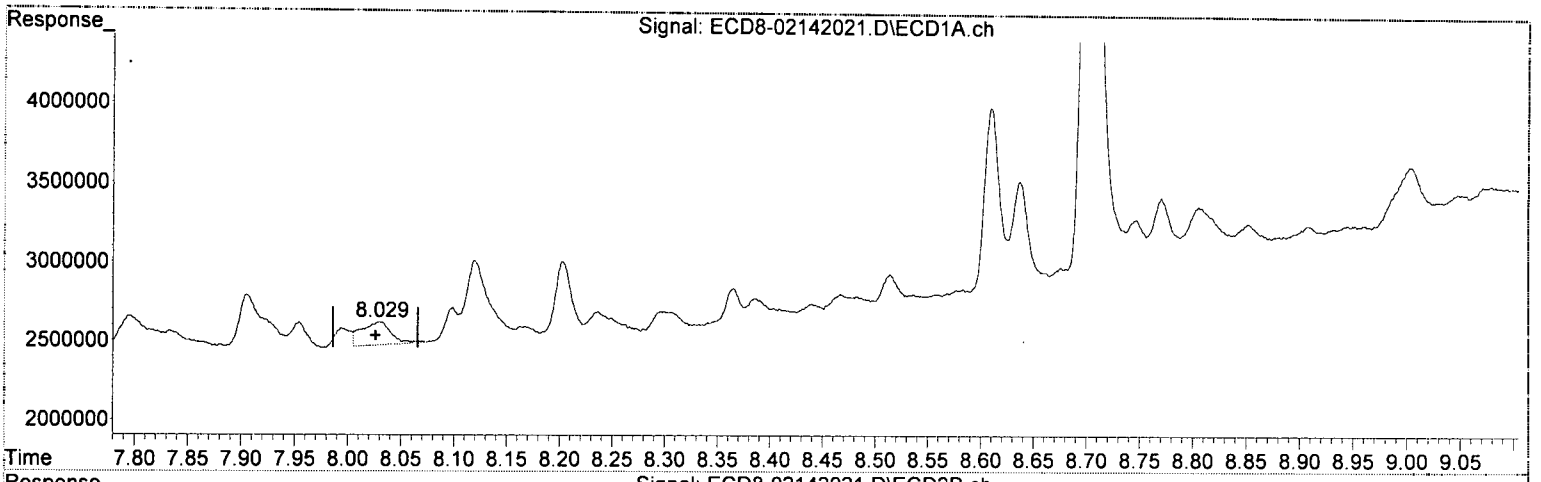
response 348630

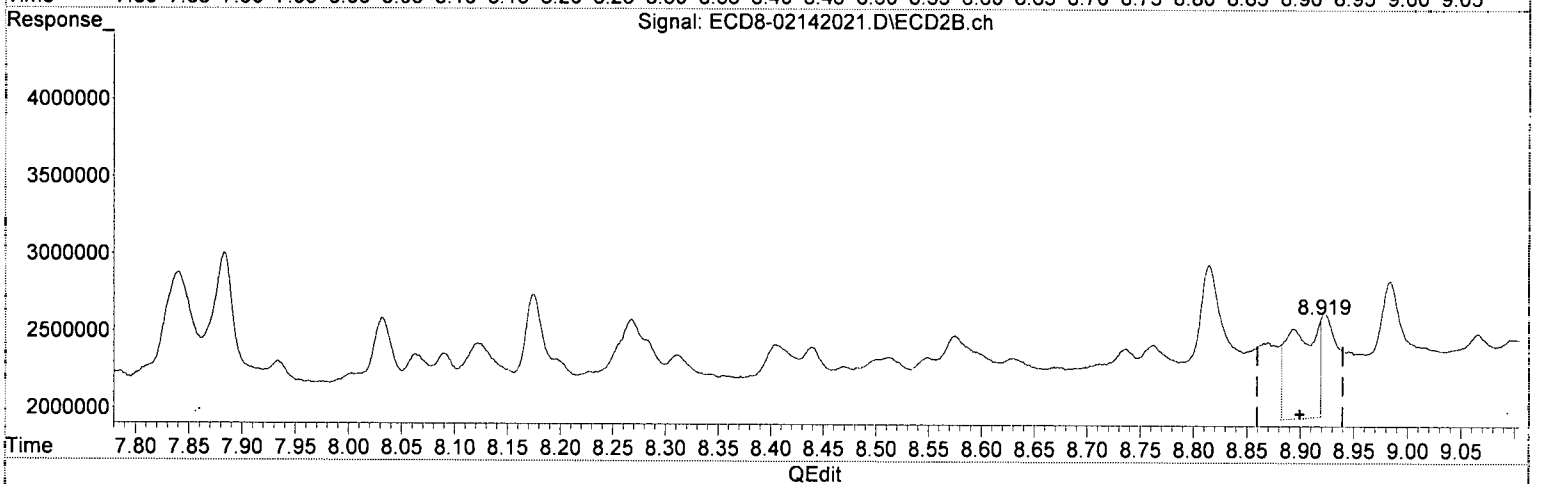
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(17) 4,4'-DDT

8.030min 0.054 ng/mL

response 144051

MJB 2/14/20

(17) 4,4'-DDT #2

8.919min 0.234 ng/mL (m)

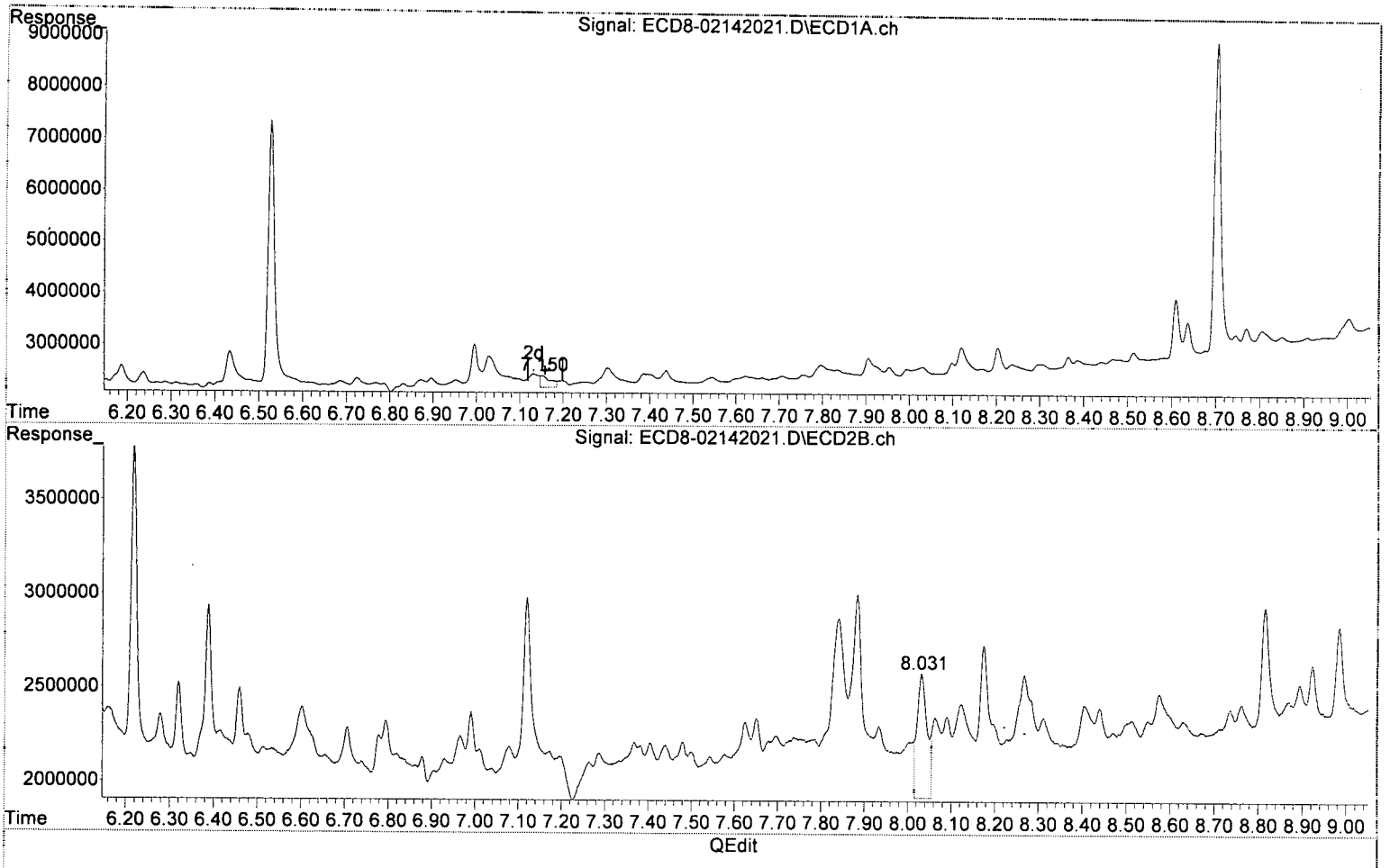
response 635594

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.150min 0.101 ng/mL

response 233557

MJB 2/14/20

(26) 2,4'-DDE #2

8.031min 0.292 ng/mL (m)

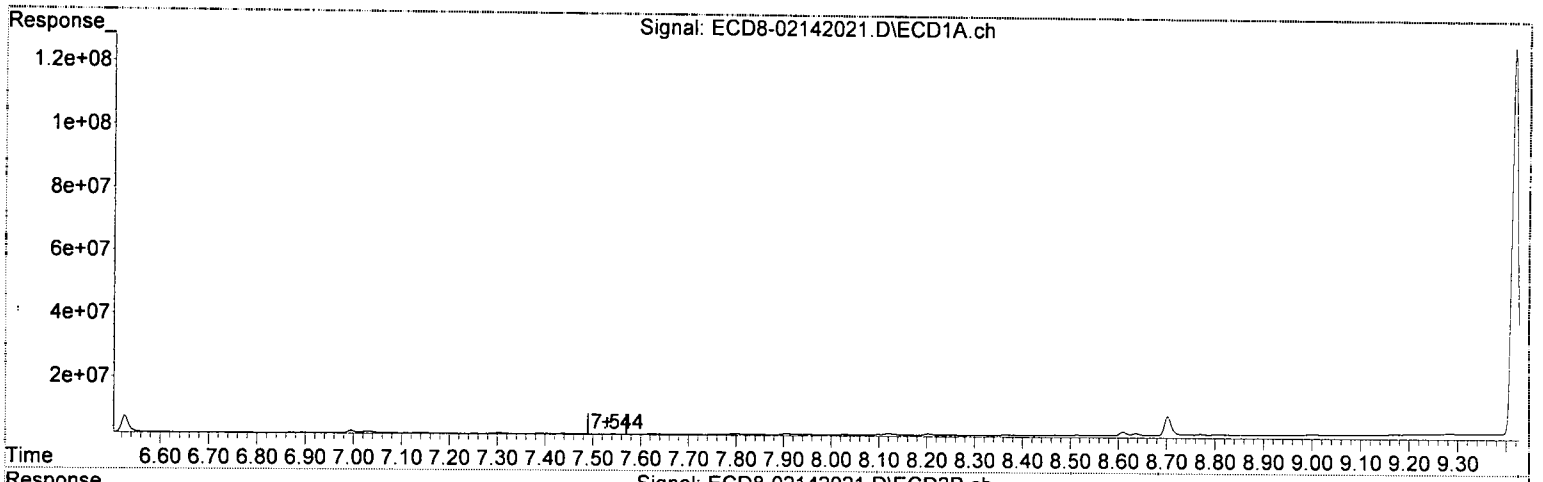
response 664478

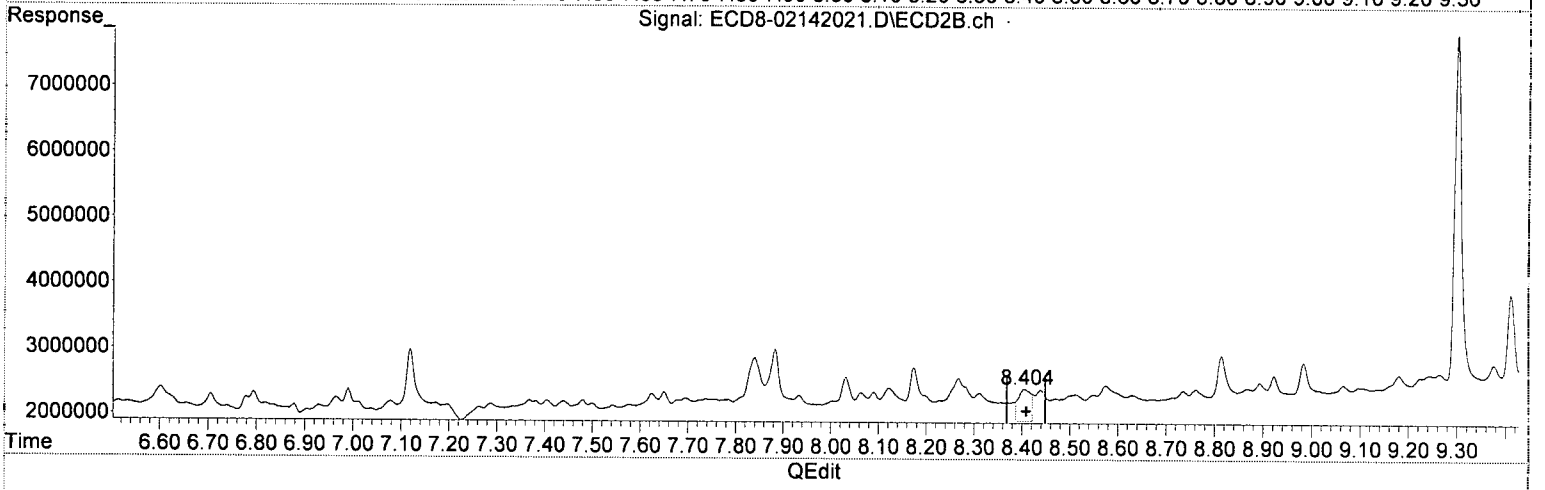
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(28) 2,4'-DDD

7.544min 0.051 ng/mL

response 99370

MJB 2/14/20

(28) 2,4'-DDD #2

8.404min 0.254 ng/mL m

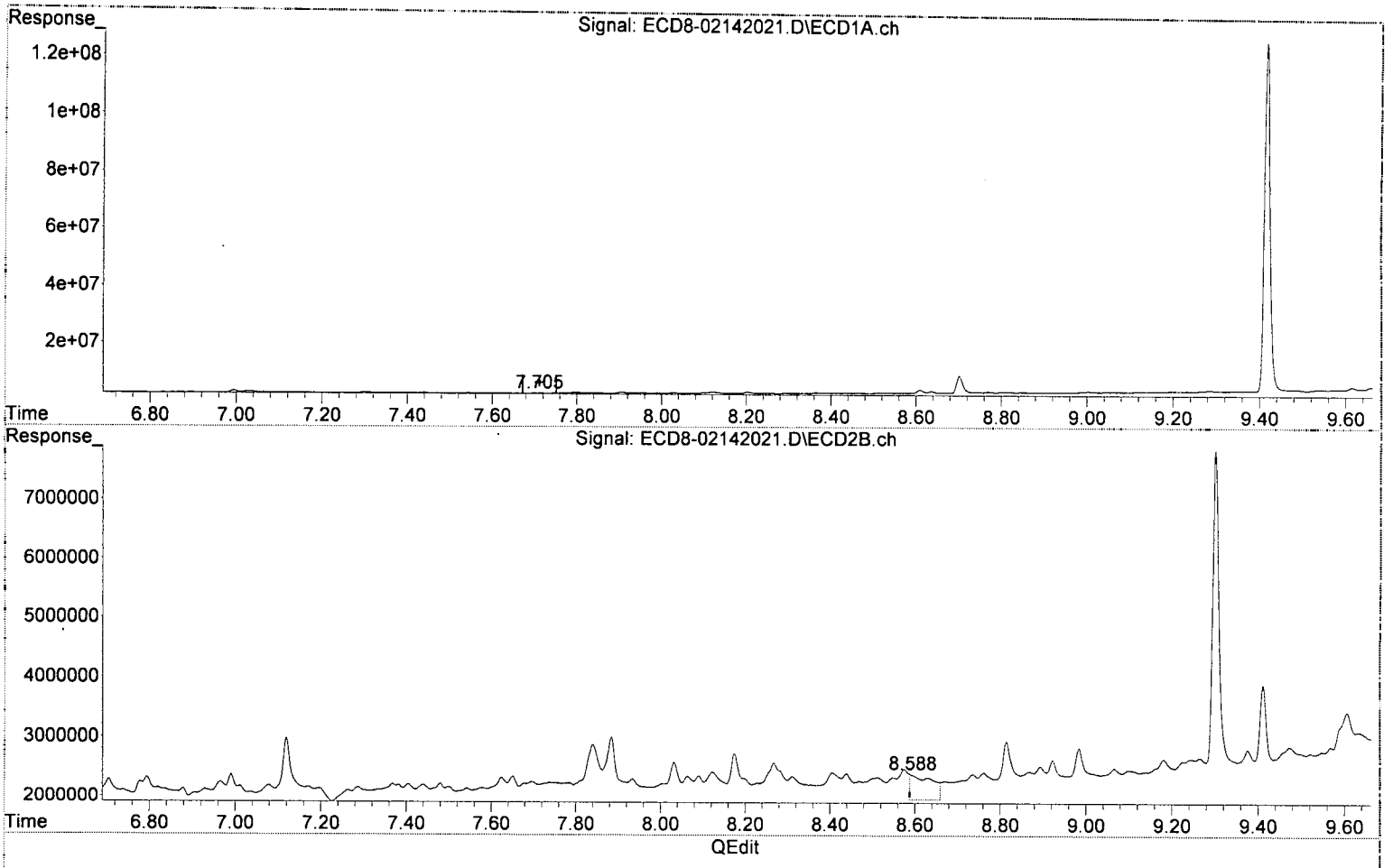
response 485706

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.705min 0.034 ng/mL

response 80486

MJB 2/14/20

(29) 2,4'-DDT #2

8.588min 0.157 ng/mL m

response 437864

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2.14.20

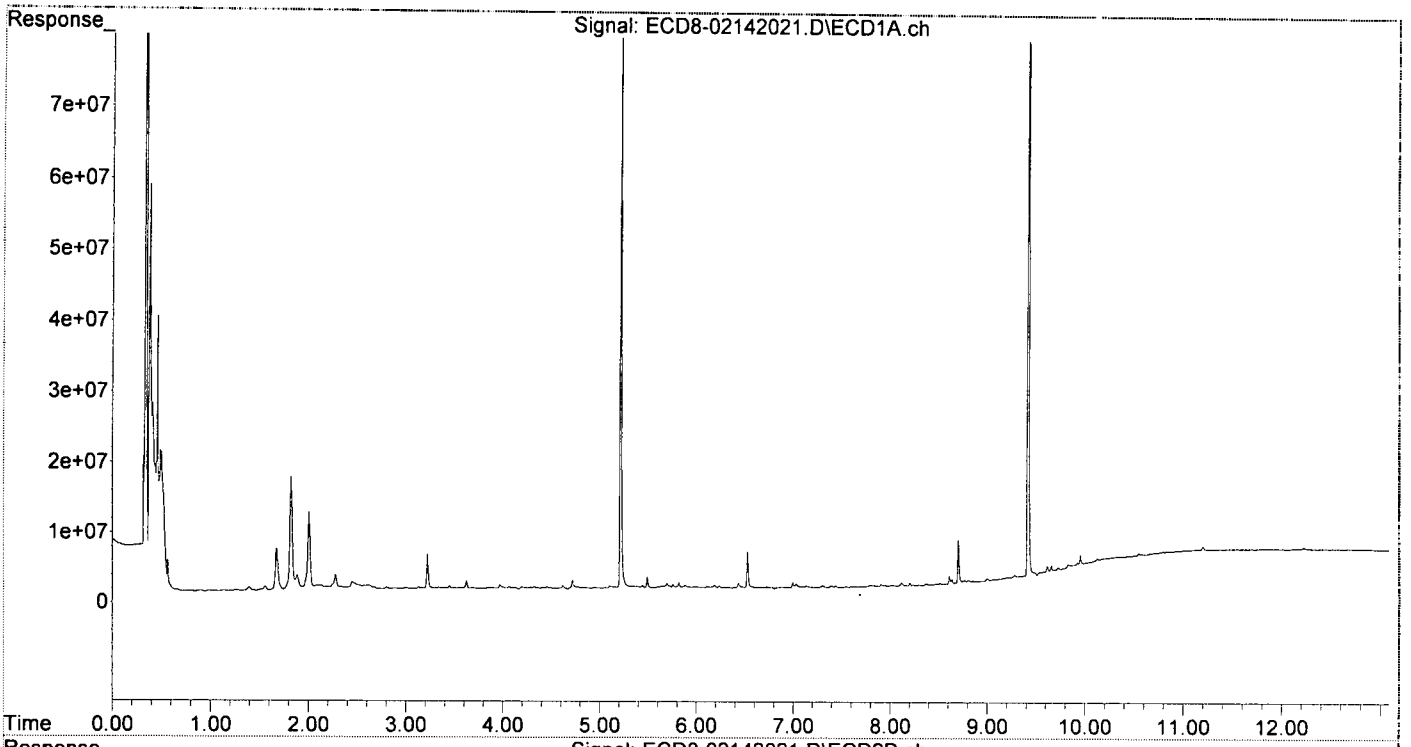
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.214	5.907	83264687	90714887	23.816	26.298	
22)	S	DCBP (S)	9.417	10.448	124.1E6	112.7E6	47.235	52.388	
		Target Compounds							
2)		a-BHC	5.756	6.515	600952	3063125	0.127	0.793	#
3)		g-BHC	6.064f	6.820	167769	3154596	0.040	0.849	#
4)		b-BHC	6.108	6.907	322818	3096879	0.185	1.784	#
5)		Heptachlor	6.434	7.195	779093	3296880	0.190	0.783	#
6)		d-BHC	6.267	7.173f	159780	3316491	0.153	1.043	#
7)		Aldrin	6.687	7.481	210395	3491297	0.052	0.944	#
8)		Heptachlo...	7.150	7.884	233557	4445062	0.063	1.238	#
9)		trans-Chl...	7.252	8.032	85197	4083999	0.023	1.098	#
10)		cis-Chlor...	7.361f	8.175f	56142	4291883	0.015	1.218	#
11)		Endosulfa...	7.438	8.175f	261627	4291883	0.075	1.299	#
12)		4,4'-DDE	7.388f	8.268	215250	4173603	0.065	1.426	#
13)		Dieldrin	7.625	8.405	103506	4069481	0.027	1.193	#
14)		Endrin	7.757	8.630	89091	4080198	0.027	1.410	#
15)		4,4'-DDD	7.833	8.669	160599	4038727	0.063	1.766	#
16)		Endosulfa...	7.905	8.788	363687	4128796	0.122	1.532	#
17)		4,4'-DDT	8.030	8.894	144051	4381752	0.054	1.756	#
18)		Endrin Al...	8.203	9.016	468173	4318468	0.178	1.633	#
19)		Endosulfa...	8.514	9.224f	181594	4605268	0.063	1.749	#
20)		Methoxychlor	8.365	9.376	210320	4867452	0.174	4.184	#
21)		Endrin Ke...	8.702	9.606	6099364	5585330	1.765	1.754	
23)		Hexachlor...	2.995	3.625	417759	1790804	0.107	0.370	#
24)		Hexachlor...	5.595	6.388	265405	3762942	0.079	1.255	#
25)		Oxychlordane	7.090	7.841	194230	4298589	BelowCal	1.344	
26)		2,4'-DDE	7.150	8.032	233557	4083999	0.101	1.797	#
27)		trans-Non...	7.302f	8.122	346609	3956754	0.095	1.096	#
28)		2,4'-DDD	7.544	8.405	99370	4069481	0.051	2.126	#
29)		2,4'-DDT	7.705	8.630	80486	4080198	0.034	1.861	#
30)		cis-Nonac...	7.795	8.669	266160	4038727	0.065	1.013	#
31)		Mirex	8.467	9.606	88129	5585330	8199.093	2.444	#
32)		Chlordane...	7.252	8.032	85197	4083999	0.213	9.400	#
33)		Chlordane...	7.361f	8.175f	56142	4291883	0.115	11.805	#
34)		Chlordane...	7.880	8.815	56537	4762295	0.434	40.102	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.302	8.405f	346609	4069481	21.174	138.094	#
37)		Toxaphene...	7.625	8.737	103506	4186514	3.295	104.171	#
38)		Toxaphene...	7.905	8.763	363687	4220268	2.007	65.232	#
39)		Toxaphene...	8.163	8.815	66284	4762295	BelowCal	45.189	
40)		Toxaphene...	8.386	9.016	132578	4318468	2.446	75.328	#
41)		Toxaphene...	8.439	9.376	49475	4867452	0.651	73.689	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

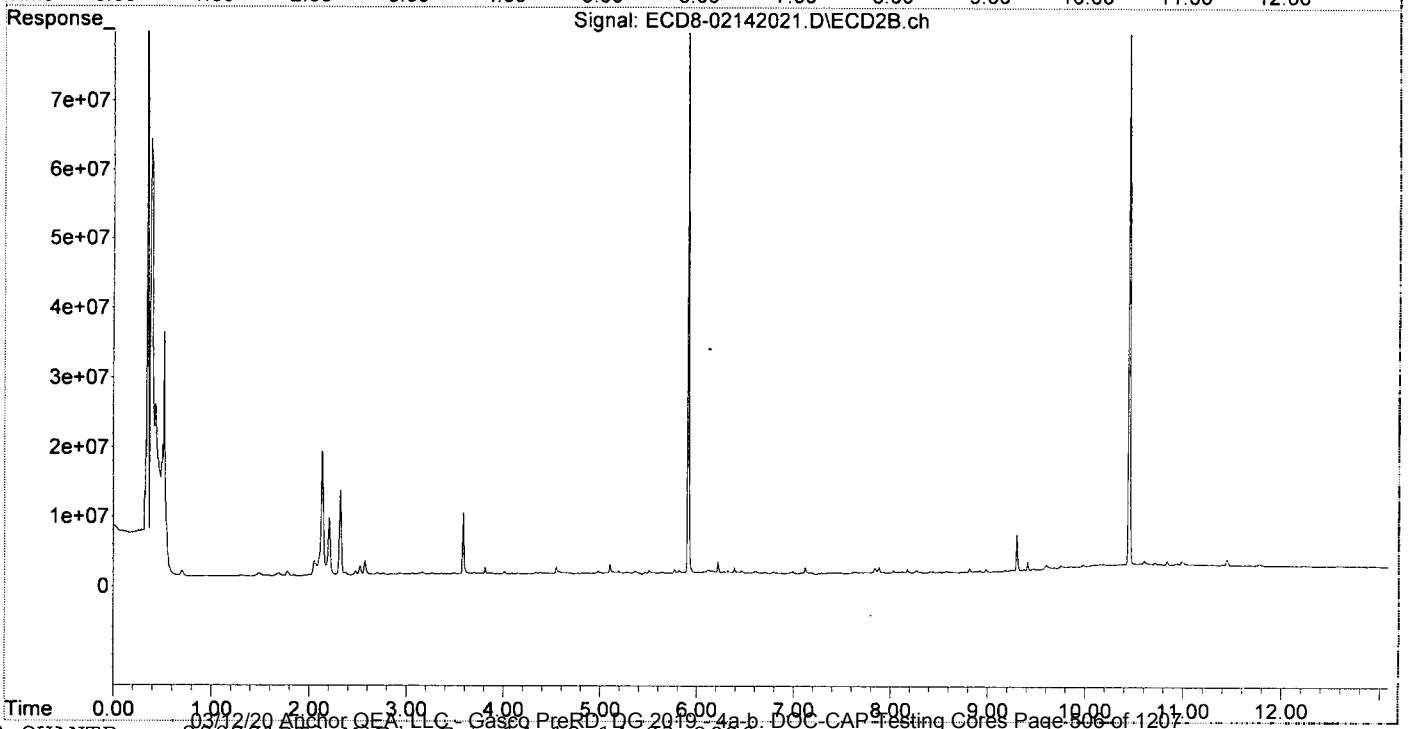
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:10
Operator : MJB
Sample : A0A1011-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:14:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:27
Operator : MJB
Sample : 0020105-MS1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:17:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

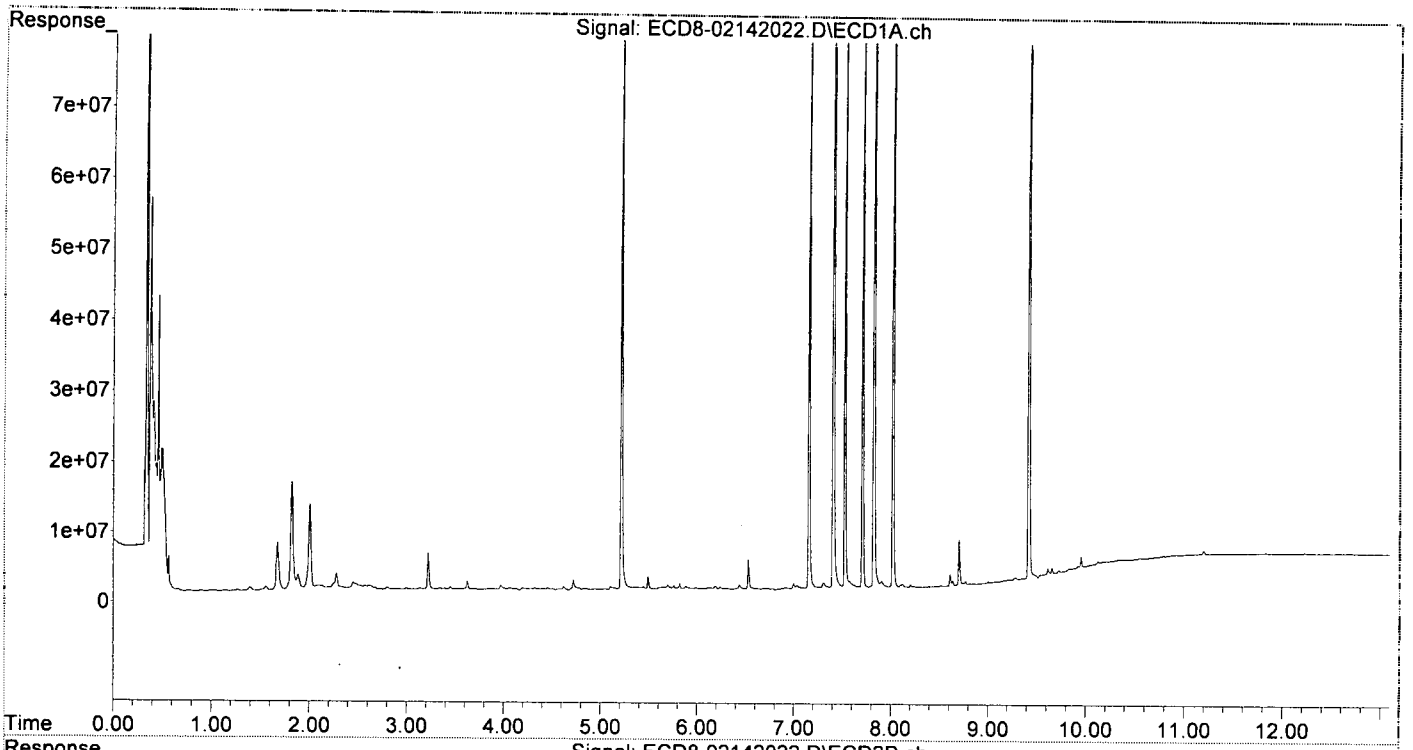
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.214	5.908	97699703	107.7E6	27.945	31.236	
22)	S	DCBP (S)	9.418	10.448	142.8E6	115.8E6	54.217	53.777	
		Target Compounds							
2)		a-BHC	5.755	6.514	705206	343153	0.149	0.156	
3)		g-BHC	0.000	6.796f	0	485098	N.D.	0.166	#
4)		b-BHC	6.107	6.879	396493	254215	0.228	0.146	#
5)		Heptachlor	6.434	7.190	775400	244900	0.189	0.058	#
6)		d-BHC	6.267	7.119f	231018	973278	0.173	0.375	#
7)		Aldrin	6.689	7.480	236952	263722	0.059	0.083	#
8)		Heptachlo...	7.154	7.884	96135862	993974	26.033	0.277	#
9)		trans-Chl...	7.266f	8.035	344071	97322029	0.091	26.173	#
10)		cis-Chlor...	7.354	8.173f	323105	1132399	0.088	0.321	#
11)		Endosulfa...	7.405f	8.197	158.4E6	335361	45.664	0.101	#
12)		4,4'-DDE	7.405	8.256	158.4E6	163.9E6	47.699	48.081	
13)		Dieldrin	0.000	8.407	0	94899607	N.D.	26.150	#
14)		Endrin	0.000	8.632	0	109.2E6	N.D.	35.920	#
15)		4,4'-DDD	7.824	8.672	132.8E6	142.8E6	52.185	53.522	
16)		Endosulfa...	7.905f	8.778	1004391	278611	0.336	0.075	#
17)		4,4'-DDT	8.021	8.898	132.3E6	141.5E6	49.224	51.026	
18)		Endrin Al...	8.203	9.022	456426	128972	0.173	0.049	#
19)		Endosulfa...	8.513	9.178f	154794	99841	0.054	BelowCal	#
20)		Methoxychlor	8.364	9.378	85379	166972	0.071	BelowCal	#
21)		Endrin Ke...	8.702	9.606	6531801	1035124	1.890	0.144	#
23)		Hexachlor...	2.994	3.583f	446572	9628360	0.115	1.989	#
24)		Hexachlor...	5.595	6.388	415757	1099903	0.124	0.329	#
25)		Oxychlordane	7.056	7.841	355626	751785	BelowCal	0.235	
26)		2,4'-DDE	7.154	8.035	96135862	97322029	41.580	42.816	
27)		trans-Non...	7.354f	8.120	323105	330063	0.088	0.091	
28)		2,4'-DDD	7.525	8.407	93394548	94899607	48.221	49.575	
29)		2,4'-DDT	7.708	8.632	106.4E6	109.2E6	44.440	47.038	
30)		cis-Nonac...	7.824f	8.672	132.8E6	142.8E6	32.636	35.841	
31)		Mirex	8.468	9.606	98573	1035124	8199.088	0.248	#
32)		Chlordane...	7.266f	8.035	344071	97322029	0.859	223.999	#
33)		Chlordane...	7.354	8.173f	323105	1132399	0.664	3.115	#
34)		Chlordane...	7.905f	8.815	1004391	681366	7.714	5.738	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.304	8.407f	938426	94899607	57.328	3220.324	#
37)		Toxaphene...	0.000	8.734	0	301068	N.D.	7.491	#
38)		Toxaphene...	7.905	8.760	1004391	291890	11.109	4.512	#
39)		Toxaphene...	8.167	8.815	115938	681366	BelowCal	2.900	
40)		Toxaphene...	8.384	9.022	54953	128972	1.014	2.250	#
41)		Toxaphene...	8.441	9.378	15850	166972	0.208	2.528	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

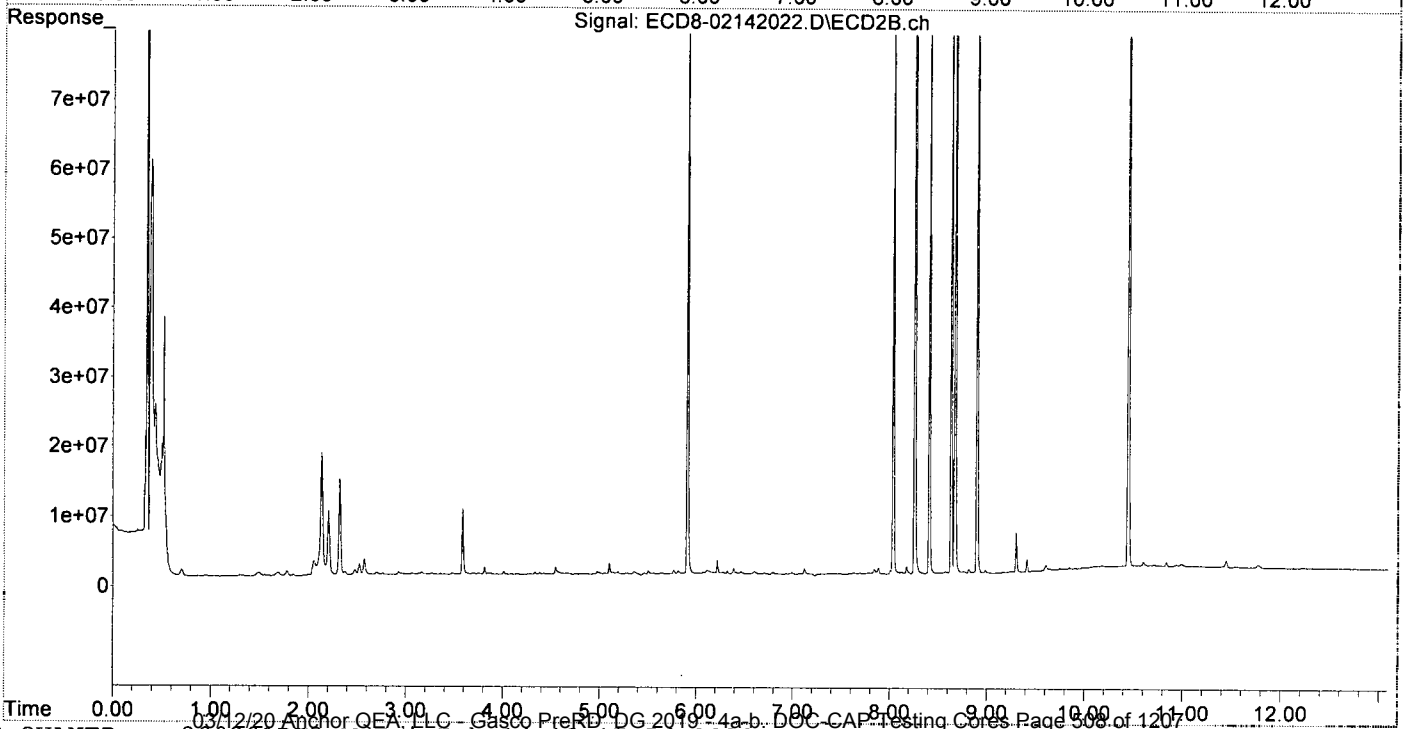
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:27
Operator : MJB
Sample : 0020105-MS1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:17:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:44
Operator : MJB
Sample : 0020105-MSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:18:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

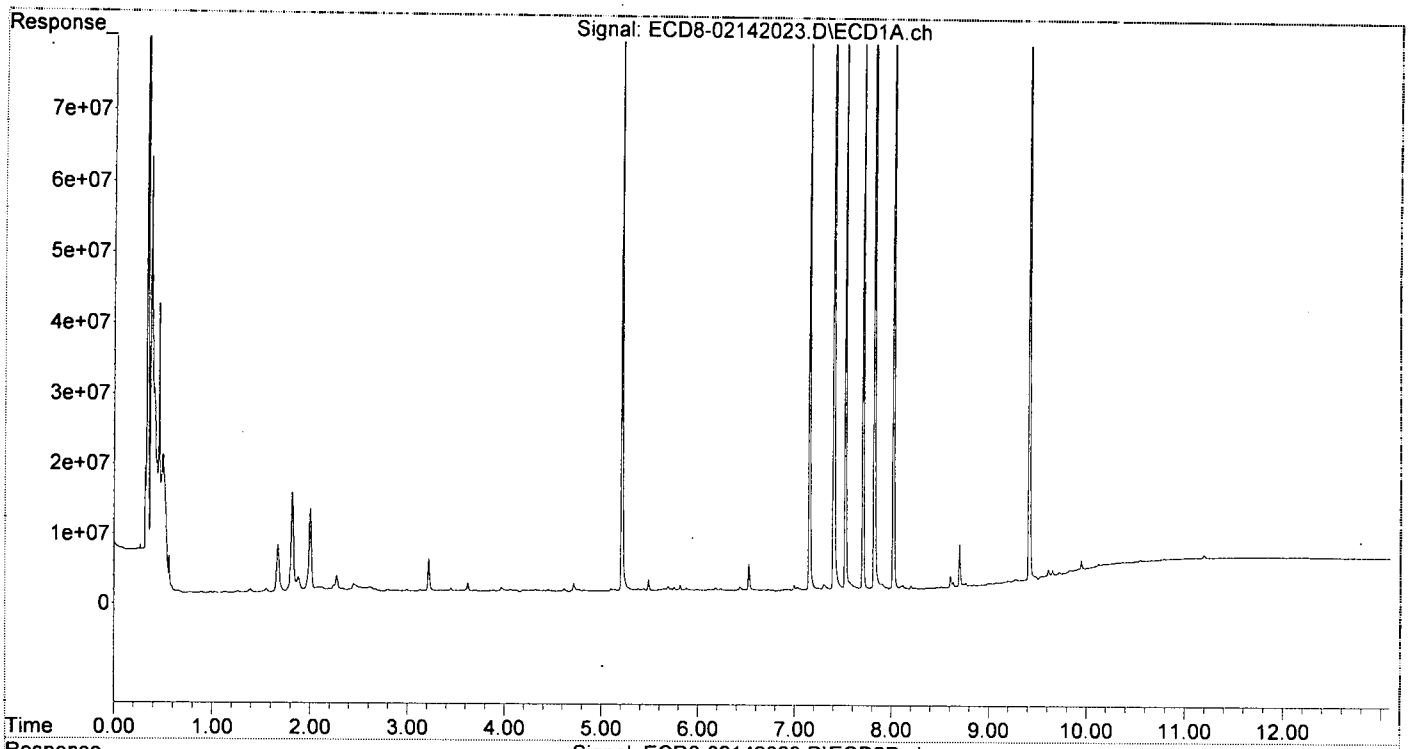
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.214	5.907	85152493	93125504	24.356	26.996	
22)	S	DCBP (S)	9.417	10.447	131.7E6	115.2E6	50.073	53.507	
		Target Compounds							
2)		a-BHC	5.755	6.512	1545666	2988263	0.327	0.775	#
3)		g-BHC	6.062f	6.833	1152525	3085011	0.277	0.832	#
4)		b-BHC	6.106	6.879	1317870	3110660	0.757	1.792	#
5)		Heptachlor	6.433	7.195	1704591	3284461	0.415	0.780	#
6)		d-BHC	6.272	7.168f	1202433	3298811	0.454	1.038	#
7)		Aldrin	6.688	7.480	1296086	3458378	0.321	0.935	#
8)		Heptachlo...	7.153	7.883f	93488462	4374409	25.316	1.219	#
9)		trans-Chl...	7.264f	8.034	1595434	97969265	0.424	26.347	#
10)		cis-Chlor...	7.305f	8.172f	2171900	4526559	0.591	1.285	#
11)		Endosulfa...	7.404f	8.197	155.4E6	4060417	44.790	1.229	#
12)		4,4'-DDE	7.404	8.255	155.4E6	164.8E6	46.785	48.342	
13)		Dieldrin	0.000	8.407	0	95753481	N.D.	26.377	#
14)		Endrin	0.000	8.631	0	111.3E6	N.D.	36.573	#
15)		4,4'-DDD	7.823	8.671	134.7E6	143.4E6	52.920	53.717	
16)		Endosulfa...	7.903f	8.778	2342647	4349340	0.783	1.615	#
17)		4,4'-DDT	8.021	8.897	130.8E6	141.3E6	48.639	50.969	
18)		Endrin Al...	8.202	9.020	2111103	4382943	0.802	1.658	#
19)		Endosulfa...	8.512	9.178f	2030359	4451576	0.709	1.688	#
20)		Methoxychlor	8.364	9.376	1843247	4672115	1.528	4.003	#
21)		Endrin Ke...	8.701	9.606	8079759	5622652	2.338	1.767	
23)		Hexachlor...	2.993	3.581f	797811	10693329	0.205	2.208	#
24)		Hexachlor...	5.595	6.388	1214641	3666335	0.361	1.221	#
25)		Oxychlordane	7.058	7.840	1491479	4079874	0.306	1.276	#
26)		2,4'-DDE	7.153	8.034	93488462	97969265	40.435	43.101	
27)		trans-Non...	7.305f	8.121	2171900	3977443	0.592	1.102	#
28)		2,4'-DDD	7.524	8.407	91120335	95753481	47.047	50.021	
29)		2,4'-DDT	7.706	8.631	106.1E6	111.3E6	44.341	47.873	
30)		cis-Nonac...	7.823f	8.671	134.7E6	143.4E6	33.095	35.989	
31)		Mirex	8.468	9.606	1892005	5622652	0.575	2.462	#
32)		Chlordane...	7.264f	8.034	1595434	97969265	3.984	225.488	#
33)		Chlordane...	7.305f	8.172f	2171900	4526559	4.466	12.451	#
34)		Chlordane...	7.887	8.814	2277951	4756408	17.496	40.052	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.305	8.407f	2171900	95753481	132.680	3249.300	#
37)		Toxaphene...	0.000	8.759f	0	4351262	N.D.	108.270	#
38)		Toxaphene...	7.903	8.759	2342647	4351262	30.128	67.257	#
39)		Toxaphene...	0.000	8.814	0	4756408	N.D.	45.128	#
40)		Toxaphene...	8.385	9.020	1791994	4382943	33.061	76.452	#
41)		Toxaphene...	8.438	9.376	1800775	4672115	23.678	70.732	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

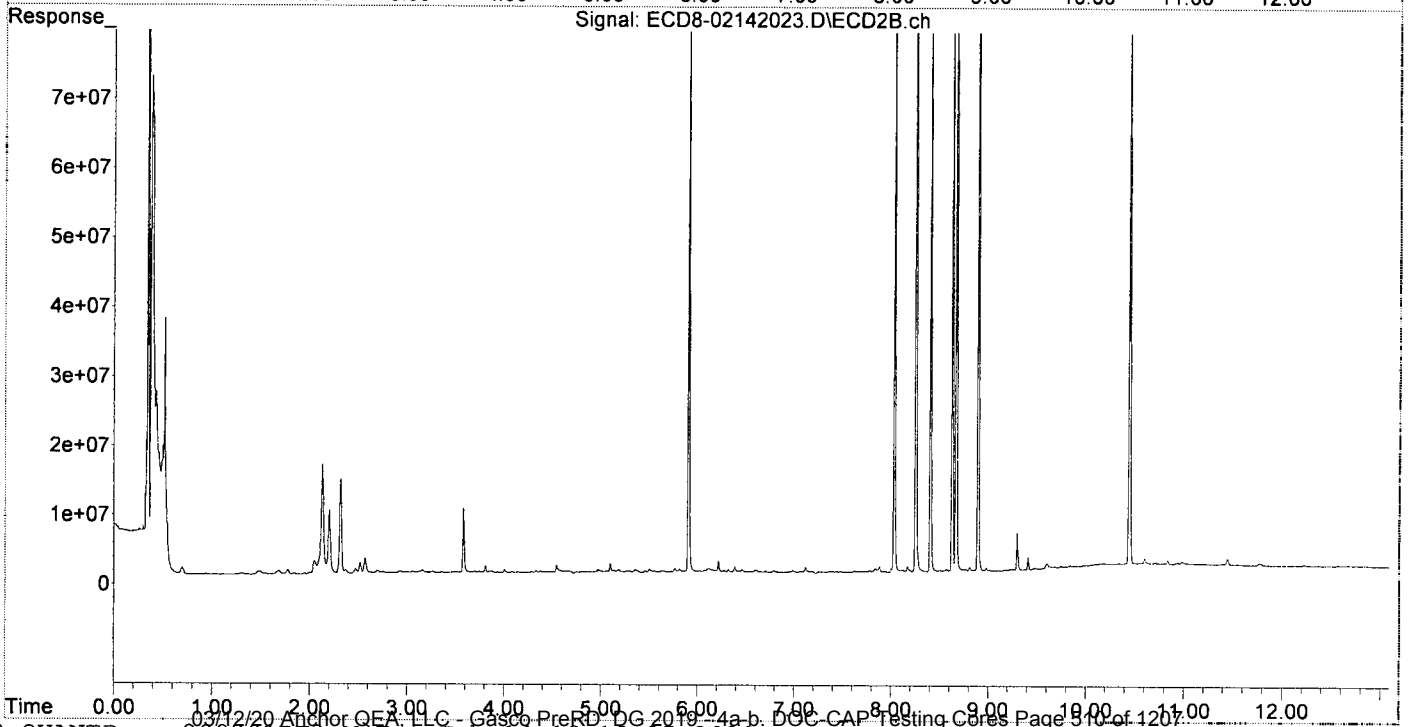
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 17:44
Operator : MJB
Sample : 0020105-MSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:18:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:06
Operator : MJB
Sample : 0B14020-CCV7
Misc : A19K134, AB 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:22:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/14/20

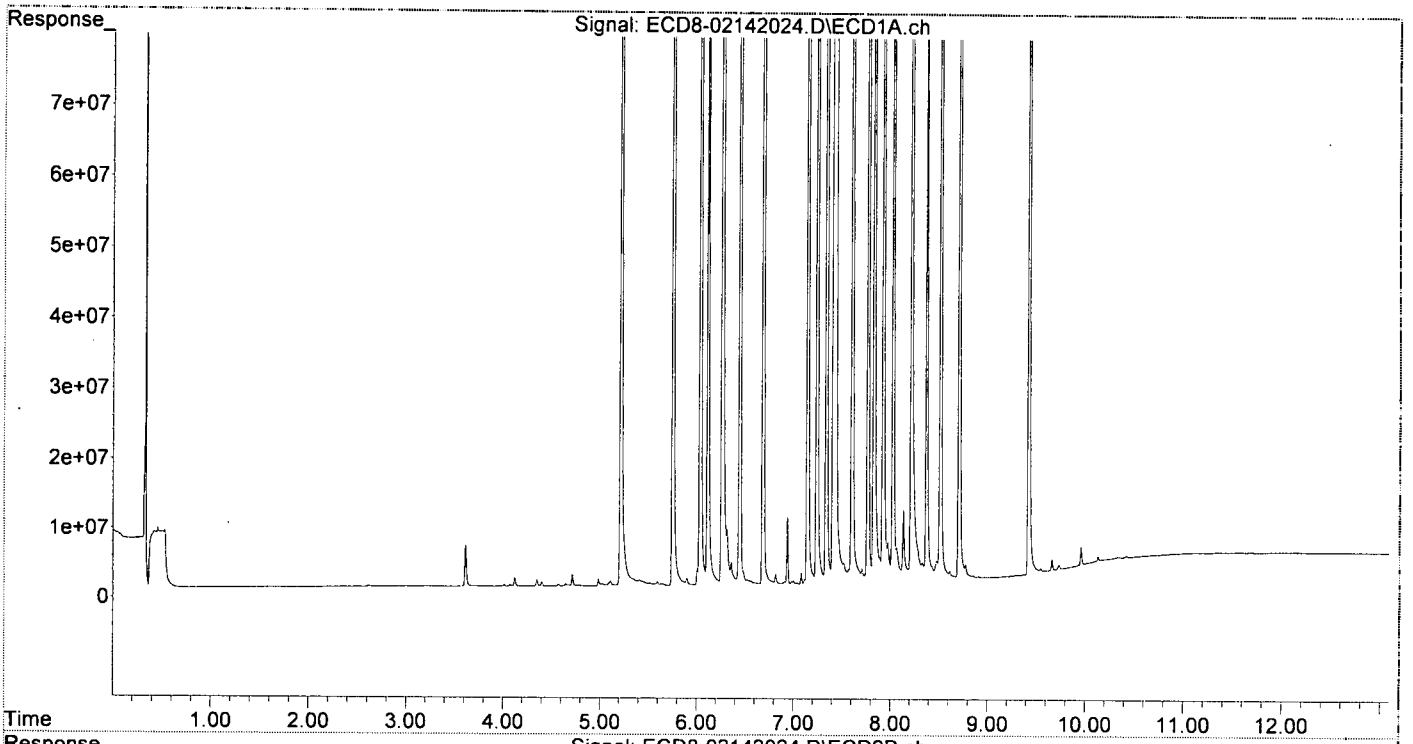
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.215	5.906	330.7E6	369.1E6	94.578	107.002	
22)	S	DCBP (S)	9.423	10.450	259.8E6	244.7E6	97.010	108.226	
		Target Compounds							
2)		a-BHC	5.753	6.509	473.4E6	514.4E6	100.197	100.902	
3)		g-BHC	6.035	6.827	394.3E6	433.2E6	94.698	96.419	
4)		b-BHC	6.113	6.891	153.0E6	173.9E6	87.871	100.166	
5)		Heptachlor	6.444	7.198	360.7E6	407.0E6	87.774	96.664	
6)		d-BHC	6.261	7.146	336.1E6	411.7E6	87.866	97.621	
7)		Aldrin	6.684	7.465	389.3E6	425.4E6	96.341	99.129	
8)		Heptachlo...	7.144	7.902	353.6E6	378.7E6	95.762	105.496	
9)		trans-Chl...	7.241	8.042	346.0E6	390.5E6	92.003	105.008	
10)		cis-Chlor...	7.339	8.149	353.1E6	359.0E6	96.165	101.918	
11)		Endosulfa...	7.432	8.199	338.4E6	349.2E6	97.565	105.654	
12)		4,4'-DDE	7.409	8.257	334.1E6	385.4E6	100.622	102.625	
13)		Dieldrin	7.605	8.400	361.5E6	402.6E6	94.809	100.393	
14)		Endrin	7.768	8.628	296.1E6	308.3E6	90.716	93.212	
15)		4,4'-DDD	7.829	8.673	244.6E6	294.4E6	96.115	99.470	
16)		Endosulfa...	7.925	8.776	273.5E6	315.9E6	91.414	101.163	
17)		4,4'-DDT	8.026	8.899	247.4E6	283.8E6	92.045	93.352	
18)		Endrin Al...	8.215	9.012	232.5E6	277.1E6	88.298	104.816	
19)		Endosulfa...	8.515	9.203	248.7E6	288.8E6	86.890	97.990	
20)		Methoxychlor	8.371	9.379	95302141	124.7E6	78.981	94.510	
21)		Endrin Ke...	8.708	9.604	306.8E6	320.3E6	88.774	96.318	
23)		Hexachlor...	2.997	3.597	51196	19073	0.013	0.004	#
24)		Hexachlor...	5.596	6.389	576771	59360	0.172	BelowCal	#
25)		Oxychlordane	7.082	7.815	1643353	251817	0.355	0.079	#
26)		2,4'-DDE	7.144	8.042	353.6E6	390.5E6	152.948	171.782	
27)		trans-Non...	7.339	8.103	353.1E6	1206626	96.325	0.334	#
28)		2,4'-DDD	7.522	8.400	2822901	402.6E6	1.458	210.333	#
29)		2,4'-DDT	7.710	8.628	1905639	308.3E6	0.796	118.180	#
30)		cis-Nonac...	7.829f	8.673	244.6E6	294.4E6	60.109	73.864	
31)		Mirex	8.480	9.604	2622989	320.3E6	0.877	143.479	#
32)		Chlordane...	7.241	8.042	346.0E6	390.5E6	863.921	898.698	
33)		Chlordane...	7.339	8.149	353.1E6	359.0E6	726.144	987.534	#
34)		Chlordane...	7.892	8.823	3374021	1809763	25.915	15.239	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.339f	8.400	353.1E6	402.6E6	21573.401	13663.048	#
37)		Toxaphene...	7.605	0.000	361.5E6	0	11508.478	N.D.	#
38)		Toxaphene...	7.925	8.776	273.5E6	315.9E6	4051.297	4882.309	
39)		Toxaphene...	8.135f	8.823	10146129	1809763	149.251	14.620	#
40)		Toxaphene...	8.371	9.012	95302141	277.1E6	1758.266	4833.570	#
41)		Toxaphene...	8.429f	9.379	1872714	124.7E6	24.623	1888.199	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

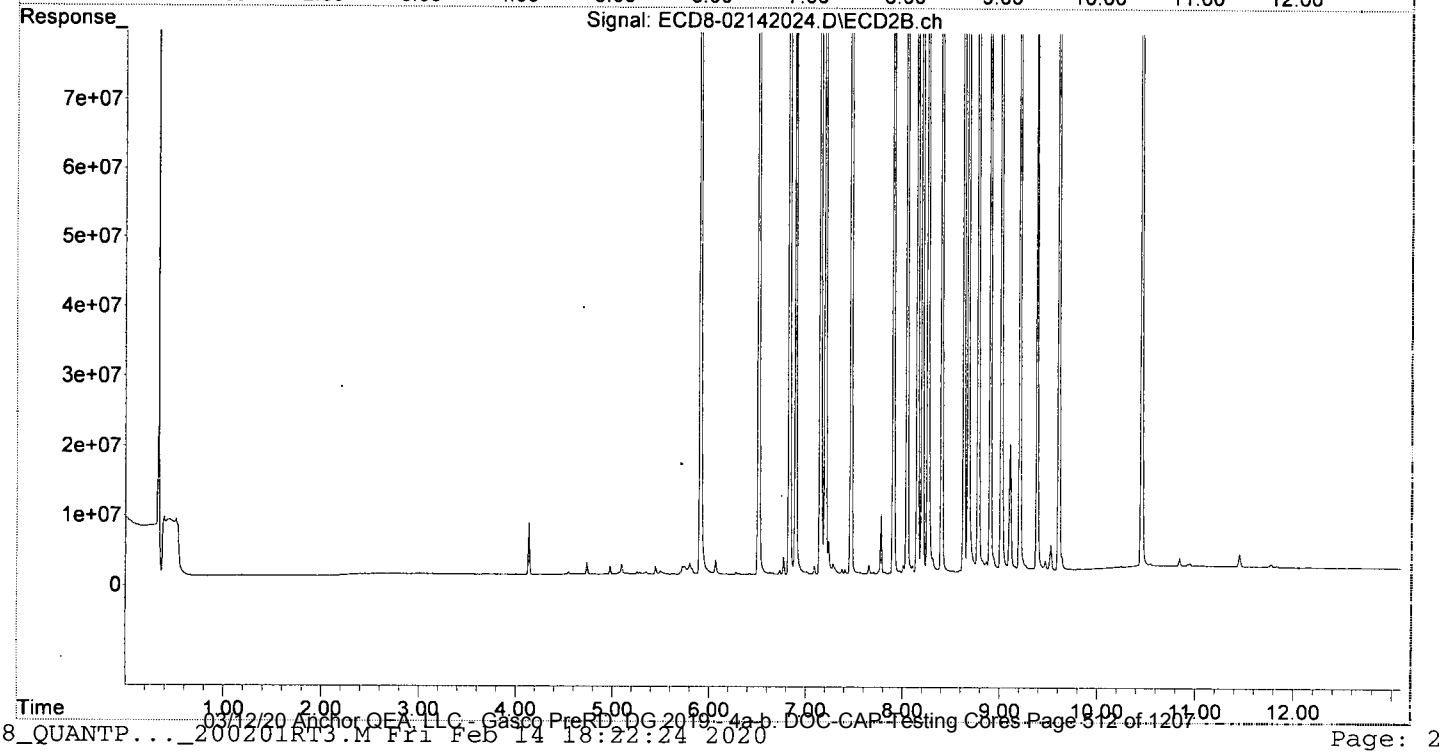
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:06
Operator : MJB
Sample : 0B14020-CCV7
Misc : A19K134, AB 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 14 18:22:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:23
Operator : MJB
Sample : 0B14020-CCV8
Misc : A19J409, 9-42 100 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/17/20

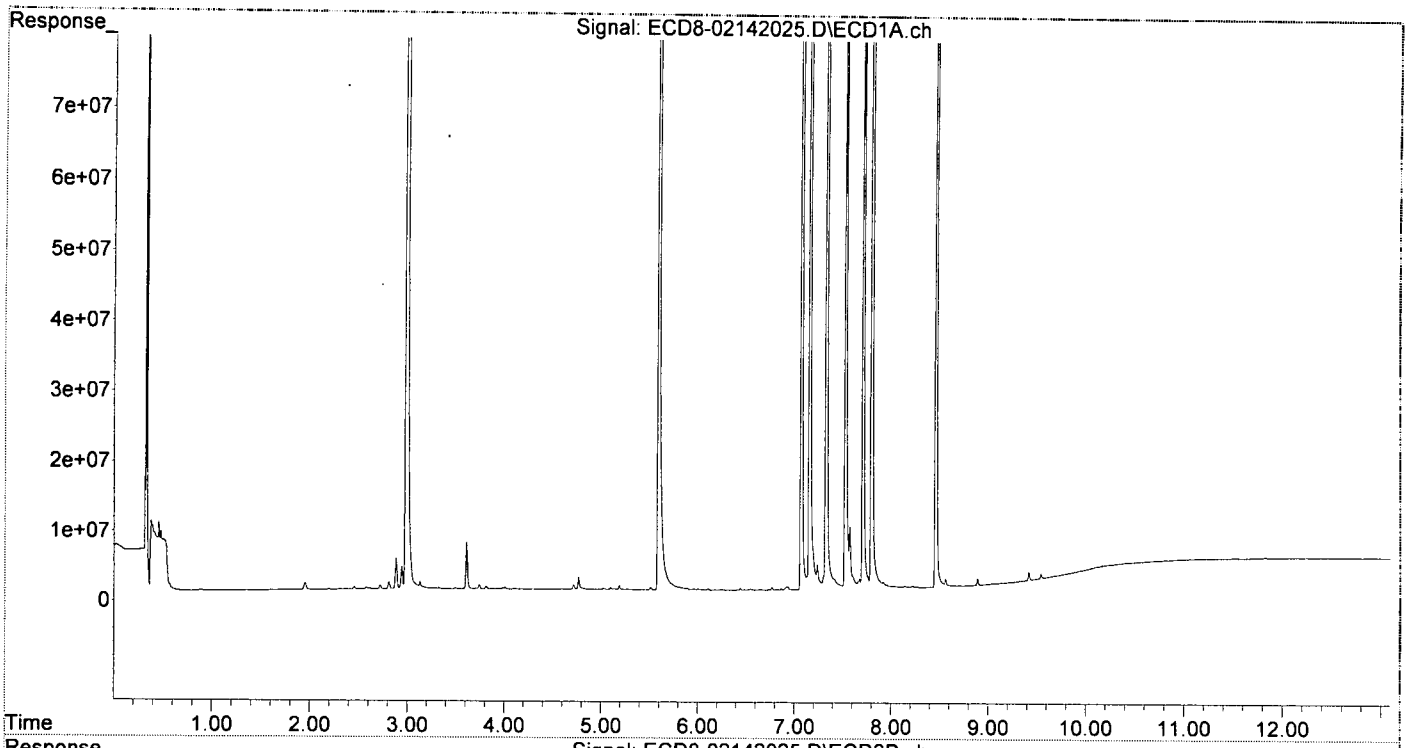
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.189f	5.913	663083	222384	0.190	0.064	#
22)	S	DCBP (S)	9.419	10.447	1399152	1315945	0.213	0.144	#
		Target Compounds							
2)		a-BHC	5.779f	6.480f	540086	700019	0.114	0.240	#
3)		g-BHC	6.006f	6.835	208890	73530	0.050	0.061	
4)		b-BHC	6.109	6.894	194700	140502	0.112	0.081	#
5)		Heptachlor	6.442	7.198	345428	316329	0.084	0.075	
6)		d-BHC	6.264	7.149	81188	76580	0.130	0.119	
7)		Aldrin	6.683	7.460	56310	76453	0.014	0.033	#
8)		Heptachlo...	7.156	7.899	210.5E6	925450	57.002	0.258	#
9)		trans-Chl...	7.239	8.036	3556967	243.9E6	0.946	65.583	#
10)		cis-Chlor...	7.329	0.000	344.6E6	0	93.832	N.D.	#
11)		Endosulfa...	7.411f	8.198	1464357	540326	0.422	0.163	#
12)		4,4'-DDE	7.411	8.238f	1464357	362067	0.441	0.205	#
13)		Dieldrin	7.574f	8.408	8902577	208.4E6	2.335	55.144	#
14)		Endrin	7.798f	8.632	391.3E6	241.4E6	119.891	74.916	#
15)		4,4'-DDD	7.798f	8.671	391.3E6	422.3E6	153.746	133.135	
16)		Endosulfa...	7.920	8.775	899350	434061	0.301	0.134	#
17)		4,4'-DDT	8.024	8.899	329263	196996	0.122	0.055	#
18)		Endrin Al...	8.224	9.011	311624	125045	0.118	0.047	#
19)		Endosulfa...	0.000	9.204	0	40984	N.D.	BelowCal	
20)		Methoxychlor	8.379	9.382	15835	73094	0.013	BelowCal	#
21)		Endrin Ke...	8.708	9.592	108557	238.3E6	0.031	74.206	#
23)		Hexachlor...	2.993	3.606	367.2E6	498.5E6	94.190	102.959	
24)		Hexachlor...	5.594	6.373	322.6E6	369.1E6	95.962	107.742	
25)		Oxychlordane	7.072	7.830	311.8E6	329.8E6	99.884	103.110	
26)		2,4'-DDE	7.156	8.036	210.5E6	243.9E6	91.041	107.287	
27)		trans-Non...	7.329	8.105	344.6E6	381.0E6	93.988	105.549	
28)		2,4'-DDD	7.527	8.408	186.3E6	208.4E6	96.204	108.863	
29)		2,4'-DDT	7.709	8.632	217.6E6	241.4E6	90.935	95.848	
30)		cis-Nonac...	7.798	8.671	391.3E6	422.3E6	96.151	105.962	
31)		Mirex	8.460	9.592	242.9E6	238.3E6	101.346	108.609	
32)		Chlordane...	7.239	8.036	3556967	243.9E6	8.882	561.283	#
33)		Chlordane...	7.329	0.000	344.6E6	0	708.527	N.D.	#
34)		Chlordane...	7.920f	8.828	899350	430051	6.908	3.621	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.329	8.408f	344.6E6	208.4E6	21050.032	7071.636	#
37)		Toxaphene...	7.574f	8.753f	8902577	616980	283.382	15.352	#
38)		Toxaphene...	7.920	8.753	899350	616980	9.617	9.537	
39)		Toxaphene...	8.144	8.828	250771	430051	BelowCal	0.287	
40)		Toxaphene...	8.379	9.011	15835	125045	0.292	2.181	#
41)		Toxaphene...	8.460	9.382	242.9E6	73094	3194.085	1.107	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

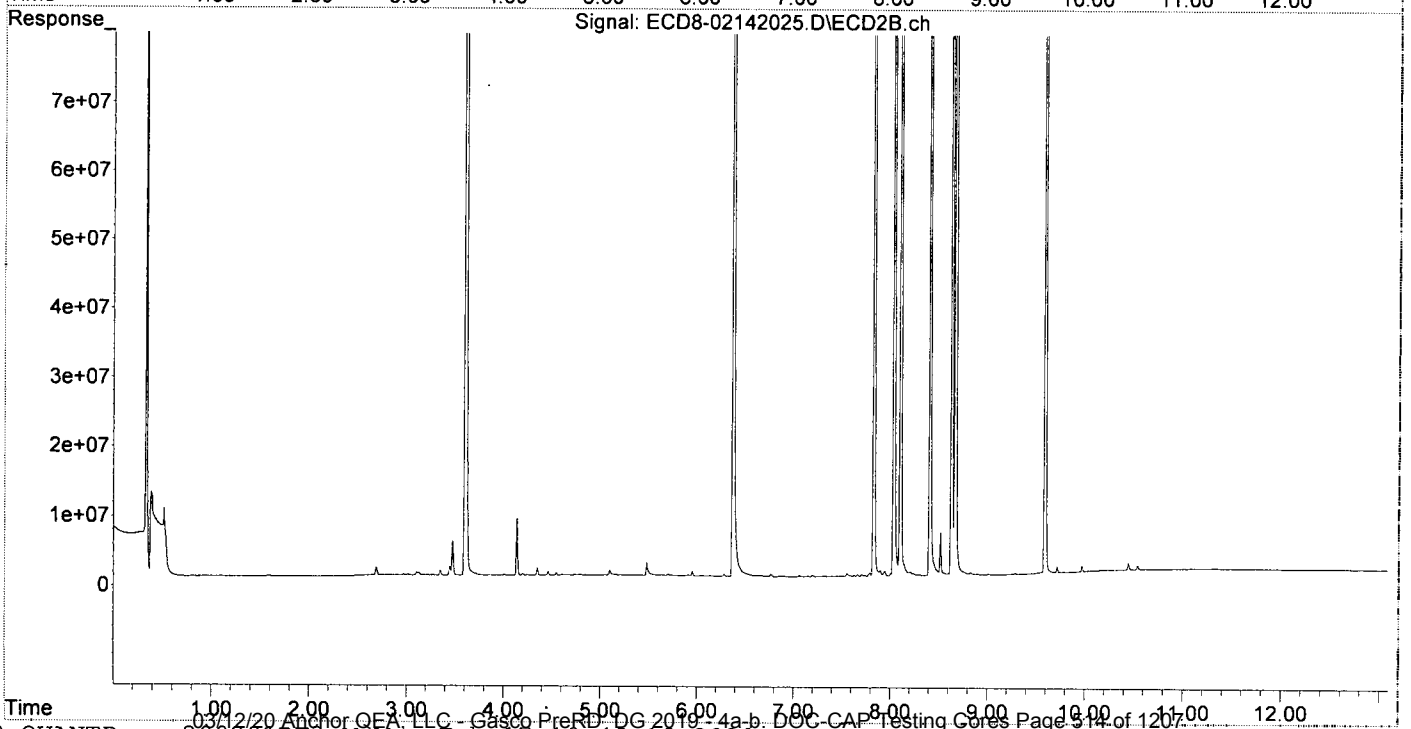
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:23
Operator : MJB
Sample : 0B14020-CCV8
Misc : A19J409, 9-42 100 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:40
Operator : MJB
Sample : 0B14020-CCV9
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.213	5.916	249324	118387	0.071	0.034	#
22)	S	DCBP (S)	9.420	10.460	576412	349452	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.756	6.537f	59317	7184396	0.013	1.754	#
3)		g-BHC	6.050	6.835	457747	3794382	0.110	1.013	#
4)		b-BHC	6.106	6.902	953410	361744	0.547	0.208	#
5)		Heptachlor	6.443	7.199	175.9E6	187.8E6	42.791	44.598	
6)		d-BHC	6.252	7.134	2300217	1069850	0.772	0.403	#
7)		Aldrin	6.684	7.469	2534252	1677906	0.627	0.460	#
8)		Heptachlo...	7.153	7.921	29824072	9670364	8.076	2.694	#
9)		trans-Chl...	7.240	8.041	381.3E6	467.5E6	101.399	125.724	
10)		cis-Chlor...	7.334	8.149	502.6E6	390.7E6	136.860	110.909	
11)		Endosulfa...	7.452	8.219	10718613	6026760	3.090	1.824	#
12)		4,4'-DDE	7.410	8.270	7316542	9464881	2.203	3.112	#
13)		Dieldrin	7.618	8.400	12592948	34667850	3.302	9.797	#
14)		Endrin	7.757	8.623	7241523	8715007	2.219	3.013	#
15)		4,4'-DDD	7.852f	8.670	11361186	67261597	4.464	26.914	#
16)		Endosulfa...	7.931	8.786	7857803	7388920	2.627	2.760	
17)		4,4'-DDT	8.052f	8.909	23500096	2688713	8.742	1.069	#
18)		Endrin Al...	8.237f	9.041f	2264543	19624915	0.860	7.423	#
19)		Endosulfa...	8.518	9.204	4851255	260855	1.695	0.015	#
20)		Methoxychlor	8.363	9.381	2164587	358606	1.794	BelowCal	#
21)		Endrin Ke...	8.706	9.603	619917	3340092	0.179	0.961	#
23)		Hexachlor...	2.996	3.627f	60880	33081	0.016	0.007	#
24)		Hexachlor...	5.586	6.392	184762	62641	0.055	BelowCal	#
25)		Oxychlordane	7.064	7.845	3888833	5059478	1.087	1.582	#
26)		2,4'-DDE	7.153	8.041	29824072	467.5E6	12.899	205.670	#
27)		trans-Non...	7.334	8.105	502.6E6	337.2E6	137.087	93.415	#
28)		2,4'-DDD	7.556f	8.400	40030129	34667850	20.668	18.110	
29)		2,4'-DDT	7.726	8.642	10143237	4477134	4.238	2.047	#
30)		cis-Nonac...	7.798	8.670	63165775	67261597	15.522	16.878	
31)		Mirex	8.461	9.603	654182	3340092	0.064	1.361	#
32)		Chlordane...	7.240	8.041	381.3E6	467.5E6	952.148	1075.987	
33)		Chlordane...	7.334	8.149	502.6E6	390.7E6	1033.434	1074.657	
34)		Chlordane...	7.878	8.810	120.2E6	123.5E6	923.519	1040.304	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.304	8.400f	56439710	34667850	3447.877	1176.419	#
37)		Toxaphene...	7.618	8.728	12592948	10148813	400.852	252.527	#
38)		Toxaphene...	7.909	8.762	6322988	9515905	86.740	147.085	#
39)		Toxaphene...	8.157	8.810	4683191	123.5E6	65.215	1177.264	#
40)		Toxaphene...	8.363f	8.982f	2164587	2043594	39.935	35.647	
41)		Toxaphene...	8.461	9.381	654182	358606	8.602	5.429	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

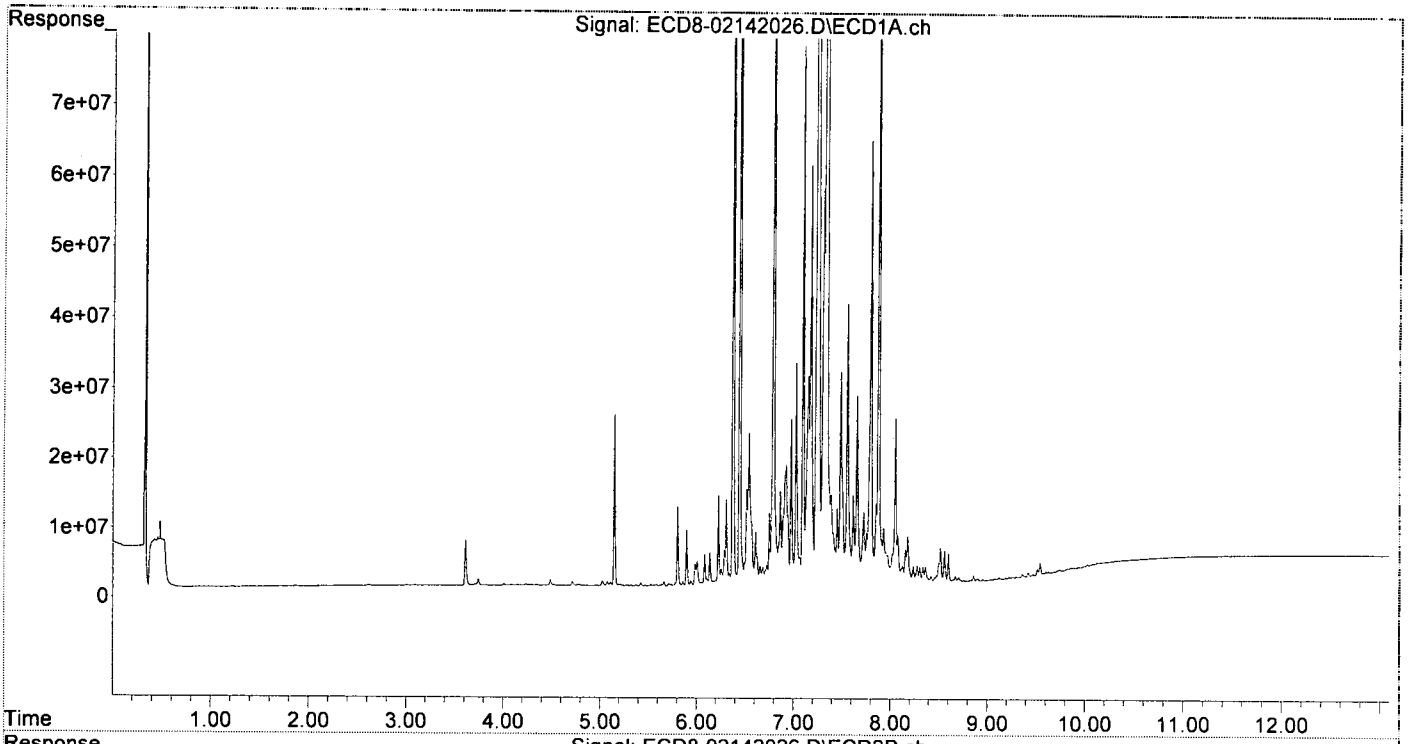
A B
969.70 1063.65

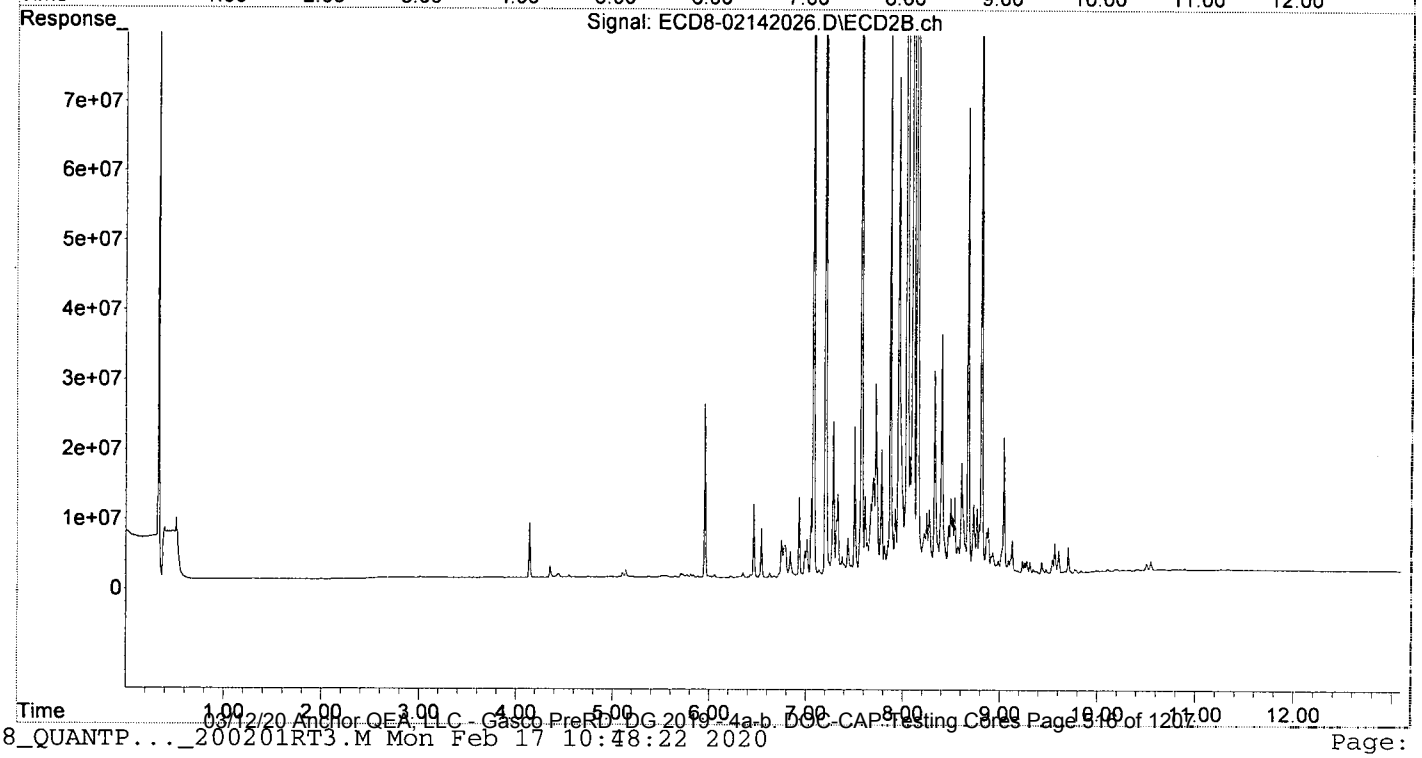
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:40
Operator : MJB
Sample : 0B14020-CCV9
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:57
Operator : MJB
Sample : 0B14020-CCVA
Misc : A19J421, TOX 1000 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.221	5.908	40957	76195	0.012	0.022	#
22)	S	DCBP (S)	9.409	10.427f	910551	1347548	0.022	0.159	#
		Target Compounds							
2)		a-BHC	5.751	6.511	159196	136714	0.034	0.108	#
3)		g-BHC	6.029	6.819	33704	288946	0.008	0.116	#
4)		b-BHC	6.107	6.902	291314	210780	0.167	0.121	#
5)		Heptachlor	6.441	7.201	647577	711721	0.158	0.169	
6)		d-BHC	6.280	7.145	370777	562514	0.214	0.258	
7)		Aldrin	6.682	7.461	1452766	1053081	0.360	0.293	
8)		Heptachlo...	7.144	7.896	5191036	7816559	1.406	2.177	#
9)		trans-Chl...	7.258	8.044	9587482	6574464	2.549	1.768	#
10)		cis-Chlor...	7.361f	8.131	12257727	8891900	3.338	2.524	
11)		Endosulfa...	7.435	8.207	17801198	12108621	5.132	3.664	#
12)		4,4'-DDE	7.409	8.270	9671278	14689876	2.912	4.765	#
13)		Dieldrin	7.604	8.417	27132583	15337582	7.115	4.386	#
14)		Endrin	7.753	8.623	22101865	27195433	6.772	9.323	#
15)		4,4'-DDD	7.836	8.674	24034558	19797142	9.444	8.340	
16)		Endosulfa...	7.914	8.784	61724033	13998321	20.633	5.232	#
17)		4,4'-DDT	8.043	8.889	15554970	22439230	5.786	8.932	#
18)		Endrin Al...	8.203	9.005	42440158	51496484	16.121	19.479	
19)		Endosulfa...	8.518	9.204	24453101	22102122	8.544	8.623	
20)		Methoxychlor	8.382	9.385	45453133	61673615	37.669	51.188	#
21)		Endrin Ke...	8.701	9.628f	15886781	11395777	4.596	3.796	
23)		Hexachlor...	2.996	3.605	117841	80168	0.030	0.017	#
24)		Hexachlor...	5.601	6.366	21072	98495	0.006	BelowCal	#
25)		Oxychlordane	7.073	7.847	11424947	6735658	3.540	2.106	#
26)		2,4'-DDE	7.167	8.044	8331928	6574464	3.604	2.892	
27)		trans-Non...	7.312	8.117	14865762	9117942	4.055	2.526	#
28)		2,4'-DDD	7.521	8.417	19394730	15337582	10.014	8.012	
29)		2,4'-DDT	7.719	8.623	28504338	27195433	11.911	12.434	
30)		cis-Nonac...	7.792	8.674	39607827	19797142	9.733	4.968	#
31)		Mirex	8.448	9.628f	67325094	11395777	27.685	5.242	#
32)		Chlordane...	7.258	8.044	9587482	6574464	23.940	15.132	#
33)		Chlordane...	7.312f	8.131	14865762	8891900	30.567	24.458	
34)		Chlordane...	7.852f	8.828	27494353	94754834	211.174	797.899	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.312	8.377	14865762	27009687	908.143	916.547	
37)		Toxaphene...	7.604	8.726	27132583	37293523	863.670	927.955	
38)		Toxaphene...	7.914	8.760	61724033	56635413	881.702	875.403	
39)		Toxaphene...	8.156	8.828	57514748	94754834	871.855	918.349	
40)		Toxaphene...	8.382	9.005	45453133	51496484	838.582	898.260	
41)		Toxaphene...	8.448	9.385	67325094	61673615	885.226	933.687	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

A B

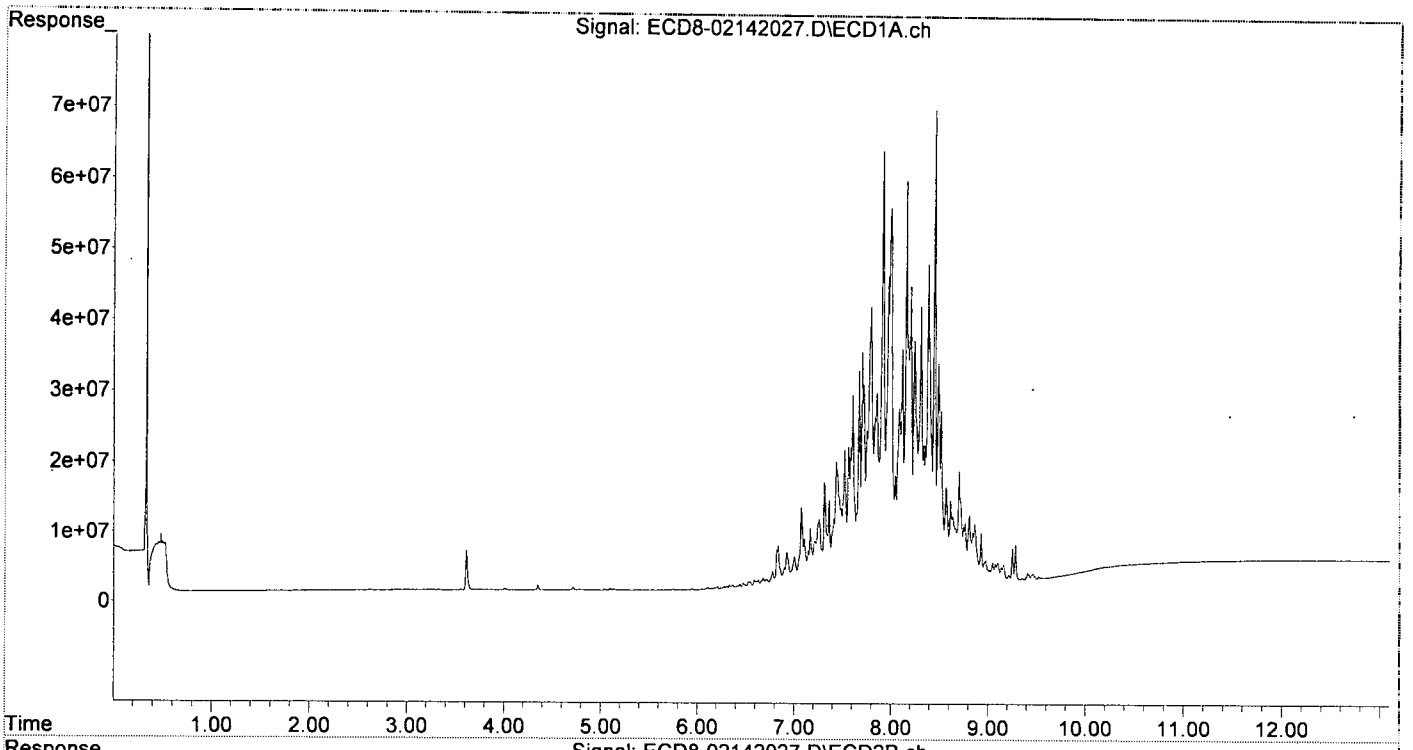
874.86 911.70

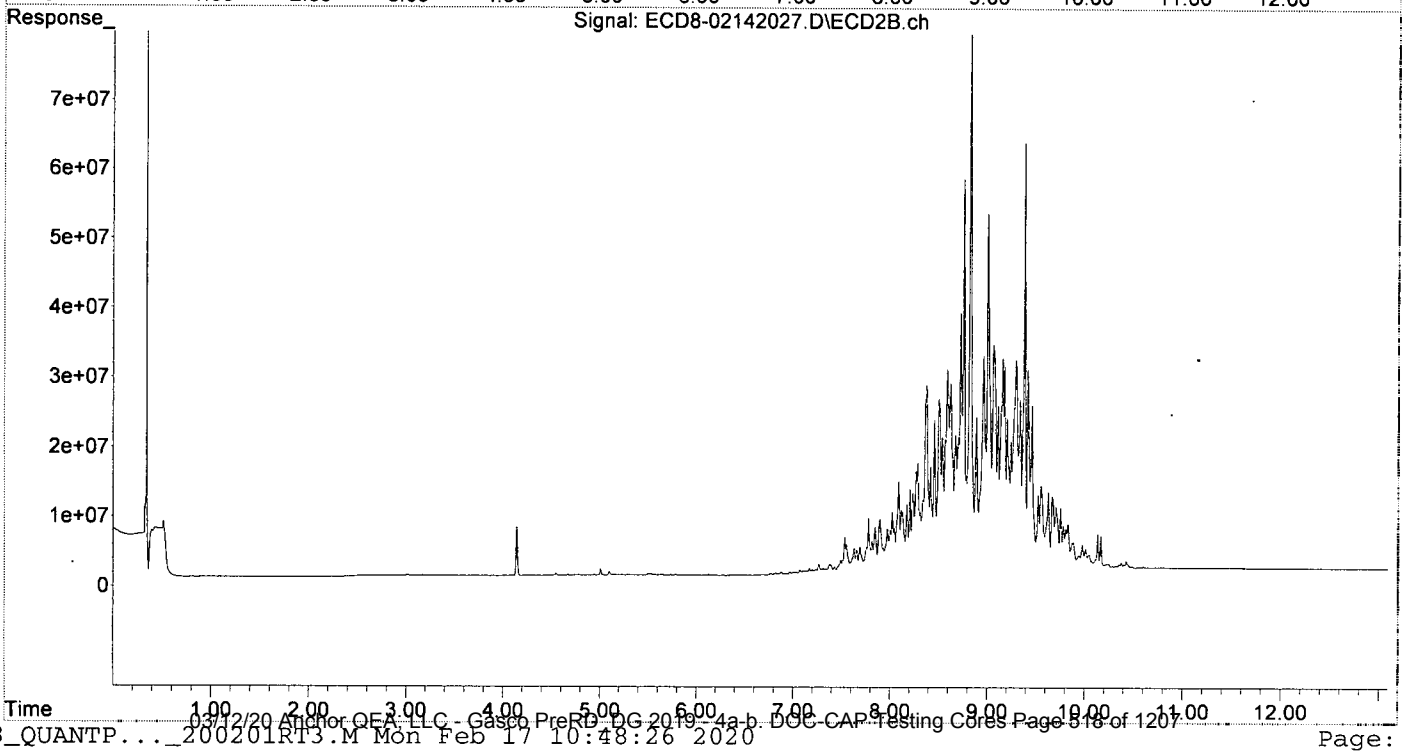
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 18:57
Operator : MJB
Sample : 0B14020-CCVA
Misc : A19J421, TOX 1000 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 19:14
Operator : MJB
Sample : 0B14020-CCB2
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

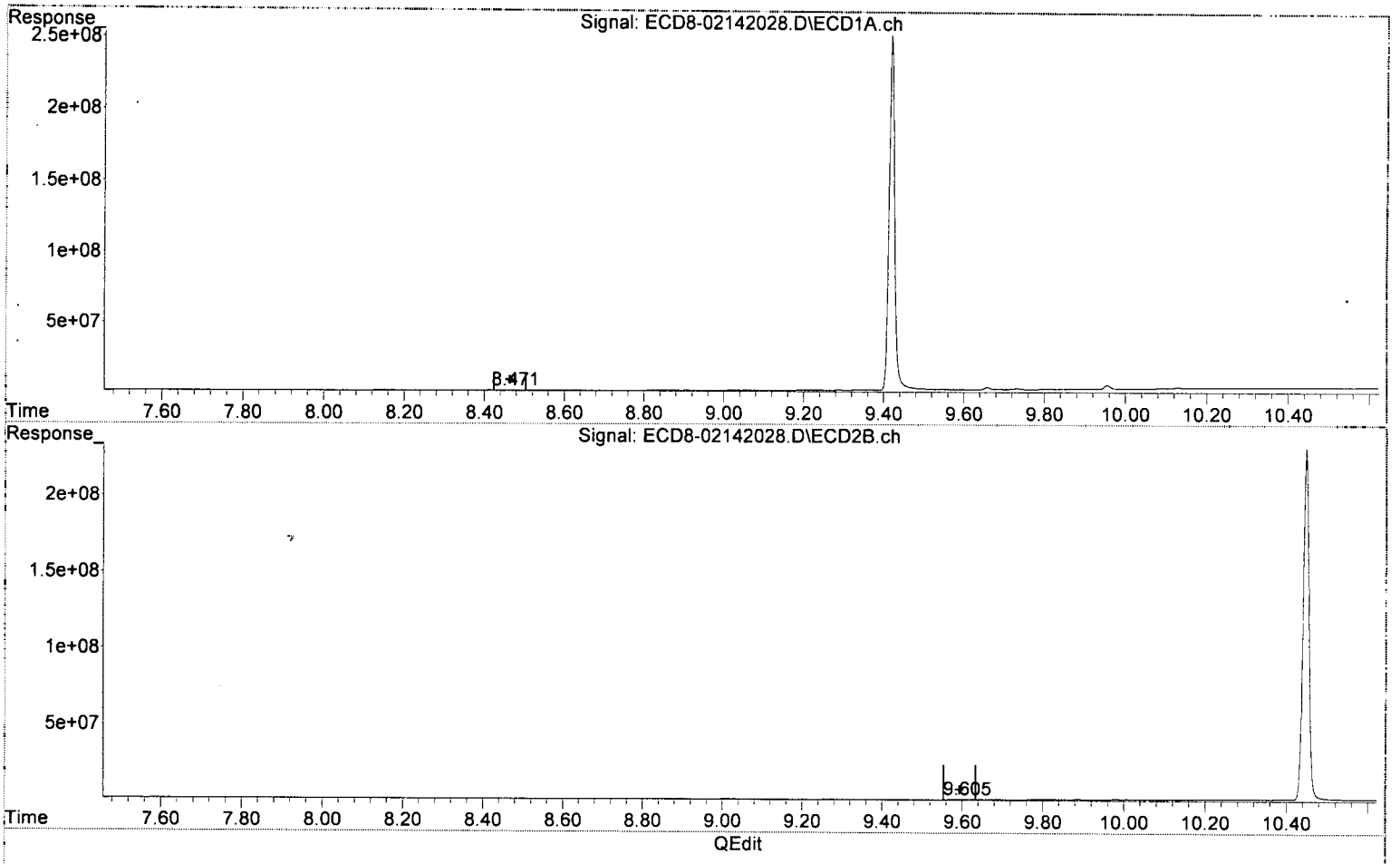
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.212	5.907	298.0E6	345.4E6	85.241	100.117	
22)	S DCBP (S)	9.418	10.447	250.6E6	229.2E6	93.719	101.953	
	Target Compounds							
2)	a-BHC	5.745	0.000	44713	0	0.009	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.113	6.903	103029	14499	0.059	0.008	#
5)	Heptachlor	6.447	7.198	8388	10445	0.002	0.002	
6)	d-BHC	0.000	7.148	0	16017	N.D.	0.102	#
7)	Aldrin	6.673	7.458	17751	10371	0.004	0.015	#
8)	Heptachlo...	7.143	7.923	7255	17574	0.002	0.005	#
9)	trans-Chl...	7.238	8.046	82418	66178	0.022	0.018	
10)	cis-Chlor...	7.333	8.149	54087	14020	0.015	0.004	#
11)	Endosulfa...	7.430	8.215	8825	18519	0.003	0.006	#
12)	4,4'-DDE	7.419	8.272	8107	12540	0.002	0.092	#
13)	Dieldrin	7.609	8.435f	14136	22208	0.004	0.039	#
14)	Endrin	7.777	8.634	8913	24110	0.003	0.001	#
15)	4,4'-DDD	7.835	8.701f	11188	18817	0.004	0.051	#
16)	Endosulfa...	7.926	8.758	165595	204543	0.055	0.047	
17)	4,4'-DDT	8.001f	8.919	14563	70026	0.005	0.003	#
18)	Endrin Al...	8.213	9.008	87595	477544	0.033	0.181	#
19)	Endosulfa...	8.516	9.202	34664	65972	0.012	BelowCal	#
20)	Methoxychlor	8.365	9.378	53340	74851	0.044	BelowCal	#
21)	Endrin Ke...	8.708	9.605	23373	229147	0.007	BelowCal	#
23)	Hexachlor...	2.998	3.625	59839	55262	0.015	0.011	#
24)	Hexachlor...	5.594	6.365	406089	77031	0.121	BelowCal	#
25)	Oxychlordane	7.080	7.830	156378	19205	BelowCal	0.006	
26)	2,4'-DDE	7.143	8.046	7255	66178	0.003	0.029	#
27)	trans-Non...	7.333	8.108	54087	28772	0.015	0.008	#
28)	2,4'-DDD	7.531	8.435f	11371	22208	0.006	0.012	#
29)	2,4'-DDT	7.701	8.634	21587	24110	0.009	BelowCal	#
30)	cis-Nonac...	7.811	8.701f	11946	18817	0.003	0.005	#
31)	Mirex	8.471	9.605	93001	229147	~~8199.090~~ Q-D01	BelowCal	#
32)	Chlordane...	7.238	8.046	82418	66178	0.206	0.152	#
33)	Chlordane...	7.333	8.149	54087	14020	0.111	0.039	#
34)	Chlordane...	7.876	8.831	9830	346575	0.076	2.918	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.333	8.350f	54087	12895	3.304	0.438	#
37)	Toxaphene...	7.609	8.701f	14136	18817	0.450 Q-D01	0.468	
38)	Toxaphene...	7.926	8.758	165595	204543	~~96751.584~~	3.162	#
39)	Toxaphene...	8.152	8.831	208215	346575	BelowCal	BelowCal	
40)	Toxaphene...	8.365	9.008	53340	477544	0.984	8.330	#
41)	Toxaphene...	8.471	9.378	93001	74851	1.223	1.133	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 19:14
Operator : MJB
Sample : 0B14020-CCB2
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.471min 8199.090 ng/mL Q-DCI

response 93001

MJB 2/17/20.

(31) Mirex #2

9.605min -0.142 ng/mL

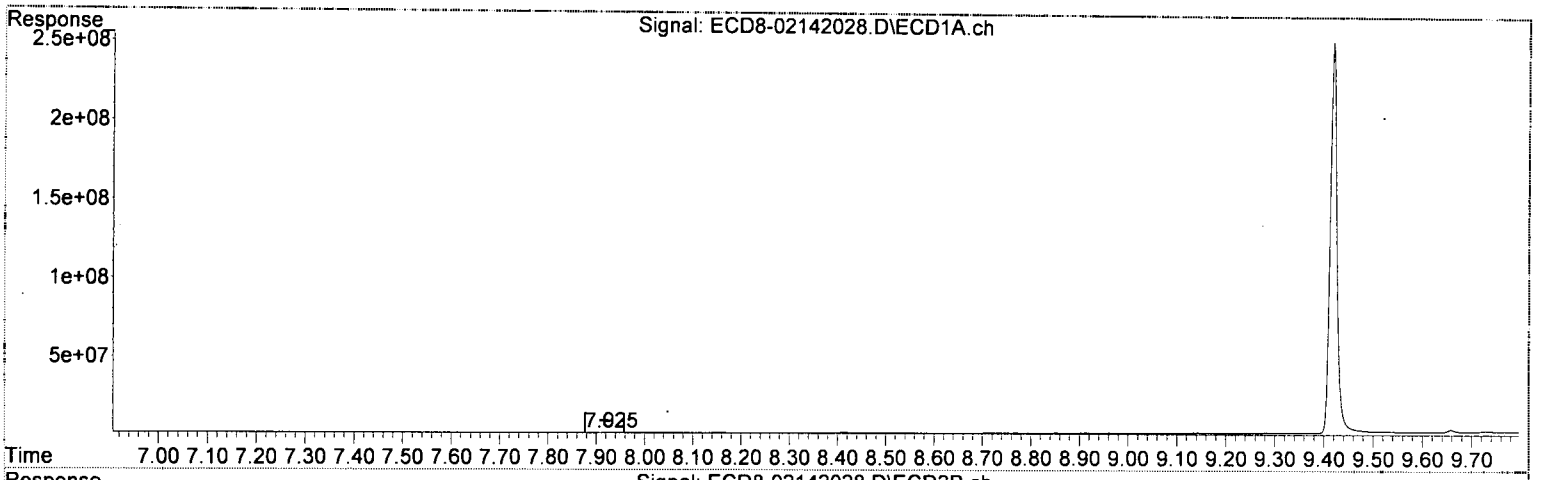
response 229147

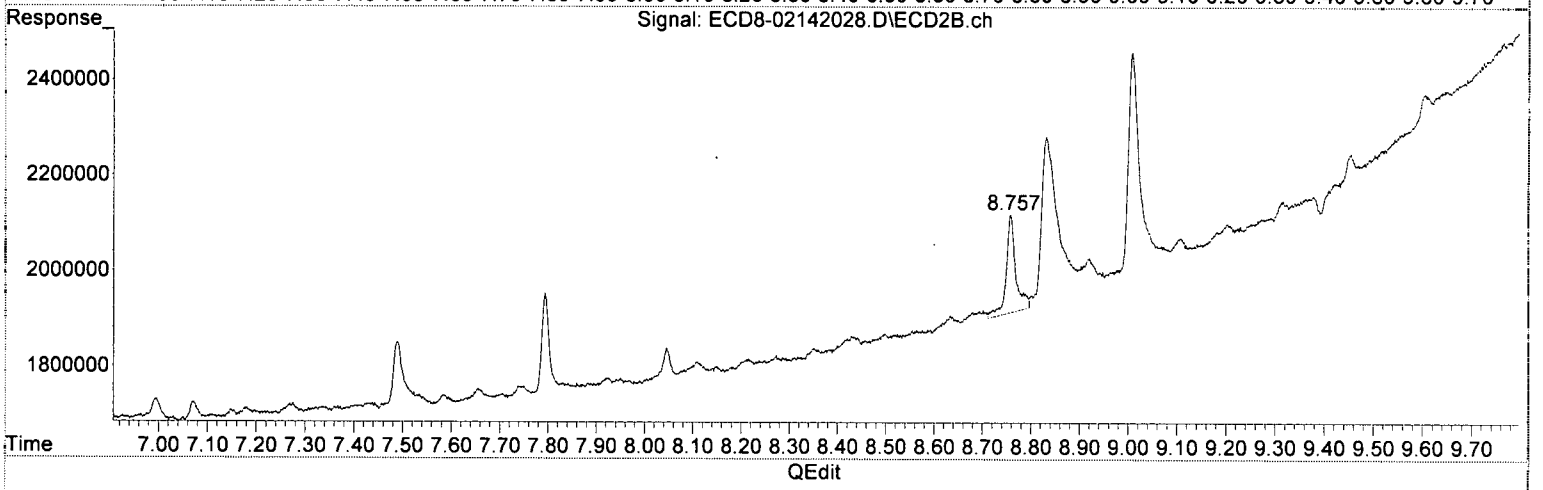
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 19:14
Operator : MJB
Sample : 0B14020-CCB2
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(38) Toxaphene (3)

7.926min 96751.584 ng/mL

response 165895

(38) Toxaphene (3) #2

8.758min 3.162 ng/mL

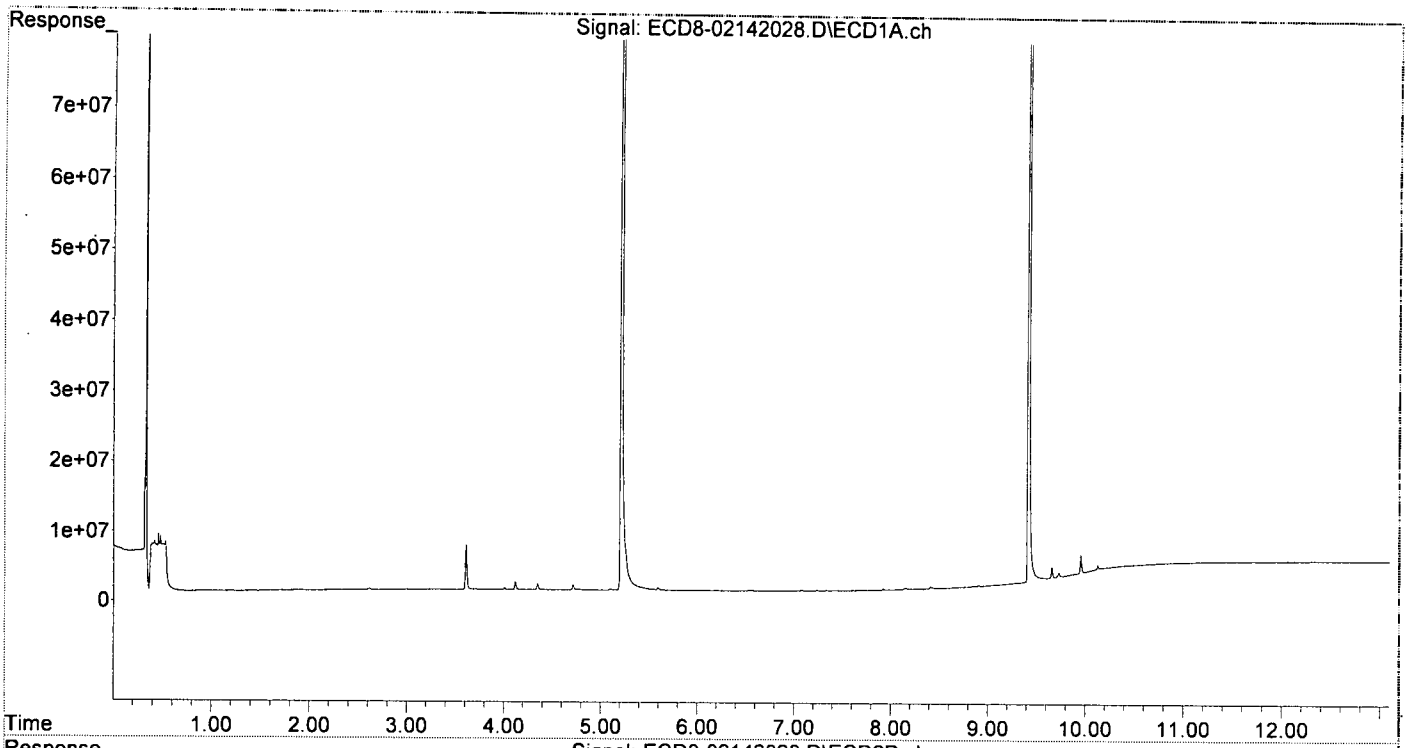
response 204543

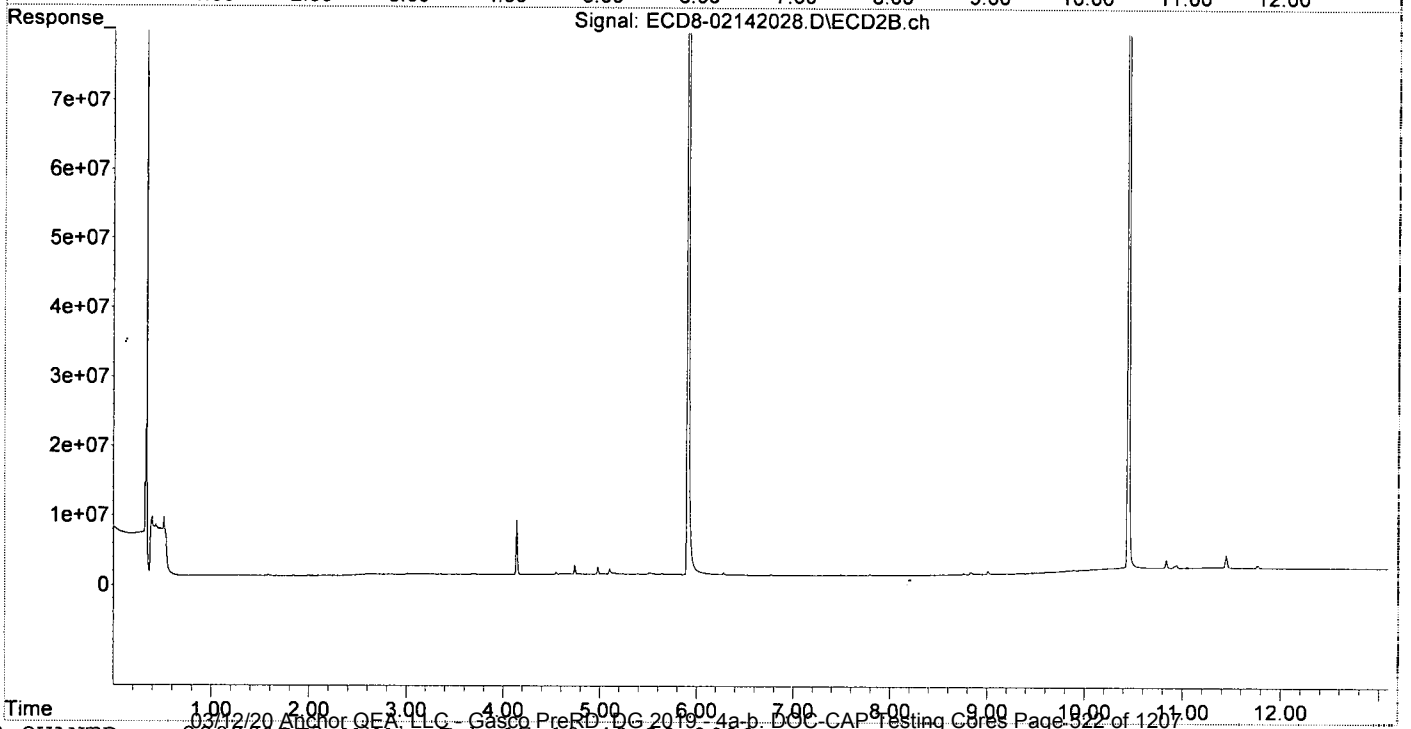
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 19:14
Operator : MJB
Sample : 0B14020-CCB2
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:11
Operator : MJB
Sample : 0B14020-CCVB
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

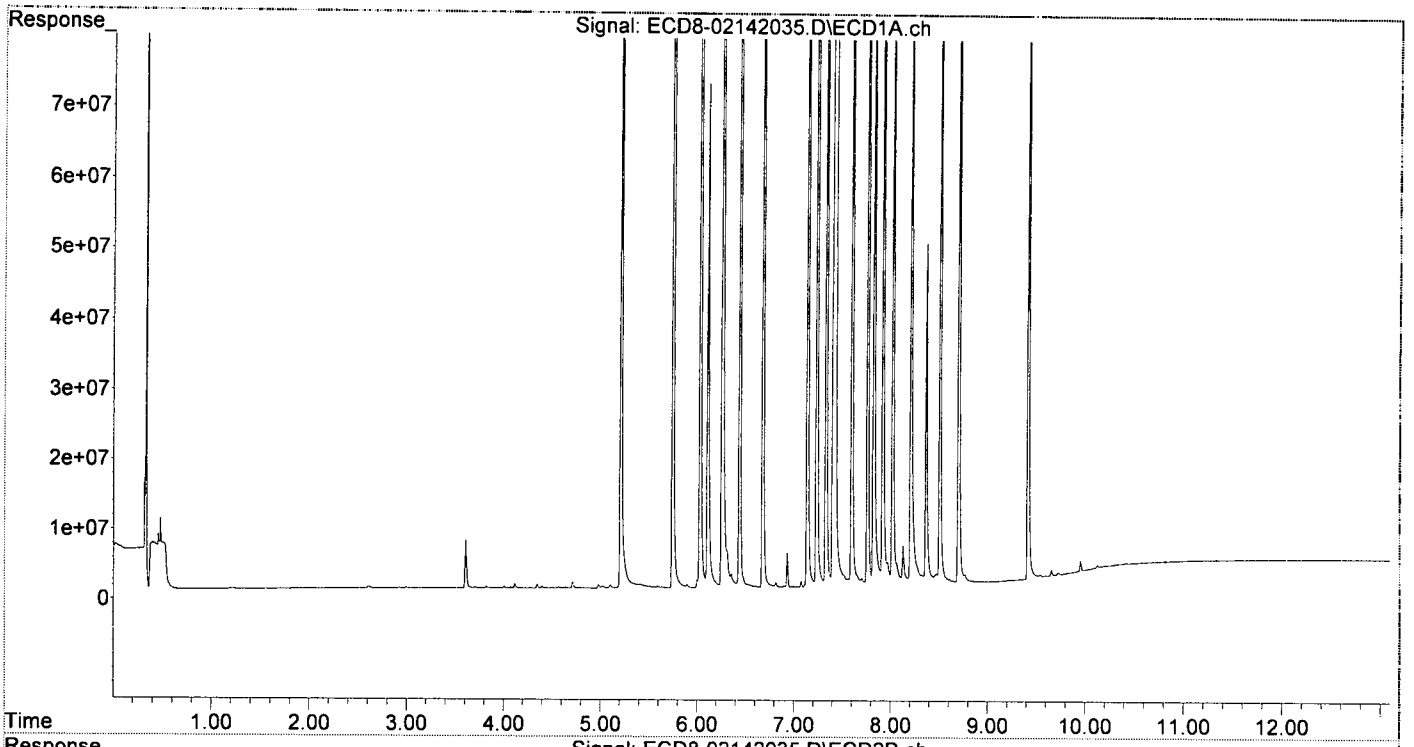
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.212	5.905	161.5E6	182.8E6	46.191	53.004	
22)	S	DCBP (S)	9.415	10.445	133.5E6	124.6E6	50.749	57.668	
		Target Compounds							
2)		a-BHC	5.748	6.508	233.9E6	255.5E6	49.517	54.261	
3)		g-BHC	6.031	6.826	202.2E6	220.0E6	48.565	52.142	
4)		b-BHC	6.110	6.891	71872682	88627726	41.267	51.051	
5)		Heptachlor	6.441	7.197	197.5E6	207.8E6	48.064 Q-3	49.357	
6)		d-BHC	6.258	7.146	143.5E6	190.0E6	39.713	49.257	
7)		Aldrin	6.680	7.463	200.2E6	199.7E6	49.545	49.725	
8)		Heptachlo...	7.141	7.900	173.7E6	189.8E6	47.040	52.865	
9)		trans-Chl...	7.238	8.041	177.7E6	188.6E6	47.250	50.718	
10)		cis-Chlor...	7.334	8.148	174.2E6	184.0E6	47.431	52.237	
11)		Endosulfa...	7.428	8.198	178.0E6	173.6E6	51.327	52.529	
12)		4,4'-DDE	7.406	8.256	150.6E6	176.0E6	45.356	51.334	
13)		Dieldrin	7.600	8.397	184.8E6	197.6E6	48.473	52.485	
14)		Endrin	7.763	8.625	152.4E6	155.9E6	46.707	50.184	
15)		4,4'-DDD	7.826	8.672	117.5E6	145.3E6	46.178	54.339	
16)		Endosulfa...	7.920	8.773	134.0E6	146.4E6	44.792	50.812	
17)		4,4'-DDT	8.022	8.897	119.0E6	142.3E6	44.276	51.305	
18)		Endrin Al...	8.210	9.010	111.0E6	130.6E6	42.181	49.411	
19)		Endosulfa...	8.510	9.201	126.8E6	133.1E6	44.314	48.839	
20)		Methoxychlor	8.368	9.377	48541224	66373473	40.228	54.678	#
21)		Endrin Ke...	8.702	9.601	159.5E6	159.1E6	46.159	51.385	
23)		Hexachlor...	2.996	3.602	86164	17641	0.022	0.004	#
24)		Hexachlor...	5.593	6.363	313608	17897	0.093	BelowCal	#
25)		Oxychlordane	7.078	7.831	888012	165512	0.109	0.052	#
26)		2,4'-DDE	7.141	8.041	173.7E6	188.6E6	75.131	82.970	
27)		trans-Non...	7.334	8.101	174.2E6	733595	47.510	0.203	#
28)		2,4'-DDD	7.516	8.397	1630478	197.6E6	0.842	103.239	#
29)		2,4'-DDT	7.706	8.625	1042796	155.9E6	0.436	65.115	#
30)		cis-Nonac...	7.826f	8.672	117.5E6	145.3E6	28.879	36.459	#
31)		Mirex	8.475	9.601	1362597	159.1E6	0.356	73.742	#
32)		Chlordane...	7.238	8.041	177.7E6	188.6E6	443.680	434.066	
33)		Chlordane...	7.334	8.148	174.2E6	184.0E6	358.154	506.149	#
34)		Chlordane...	7.920f	8.773f	134.0E6	146.4E6	1029.196	1232.693	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.334	8.397	174.2E6	197.6E6	10640.602	6706.331	#
37)		Toxaphene...	7.600	0.000	184.8E6	0	5883.881	N.D.	#
38)		Toxaphene...	7.920	8.773	134.0E6	146.4E6	1939.241	2262.705	
39)		Toxaphene...	8.131f	8.859f	5478294	1024288	77.455	6.464	#
40)		Toxaphene...	8.368	9.010	48541224	130.6E6	895.556	2278.593	#
41)		Toxaphene...	8.475f	9.377	1362597	66373473	17.916	1004.839	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

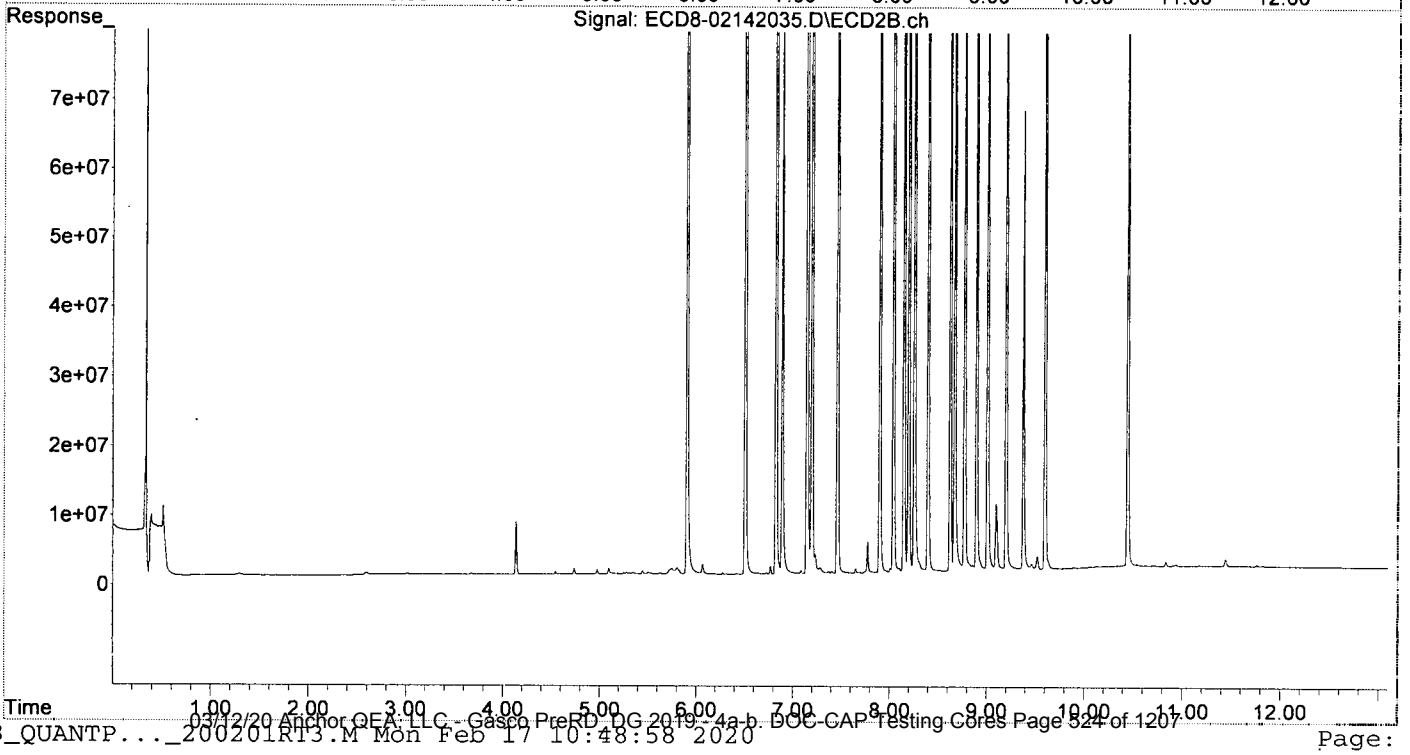
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:11
Operator : MJB
Sample : 0B14020-CCVB
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:48:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:28
Operator : MJB
Sample : 0B14020-CCVC
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

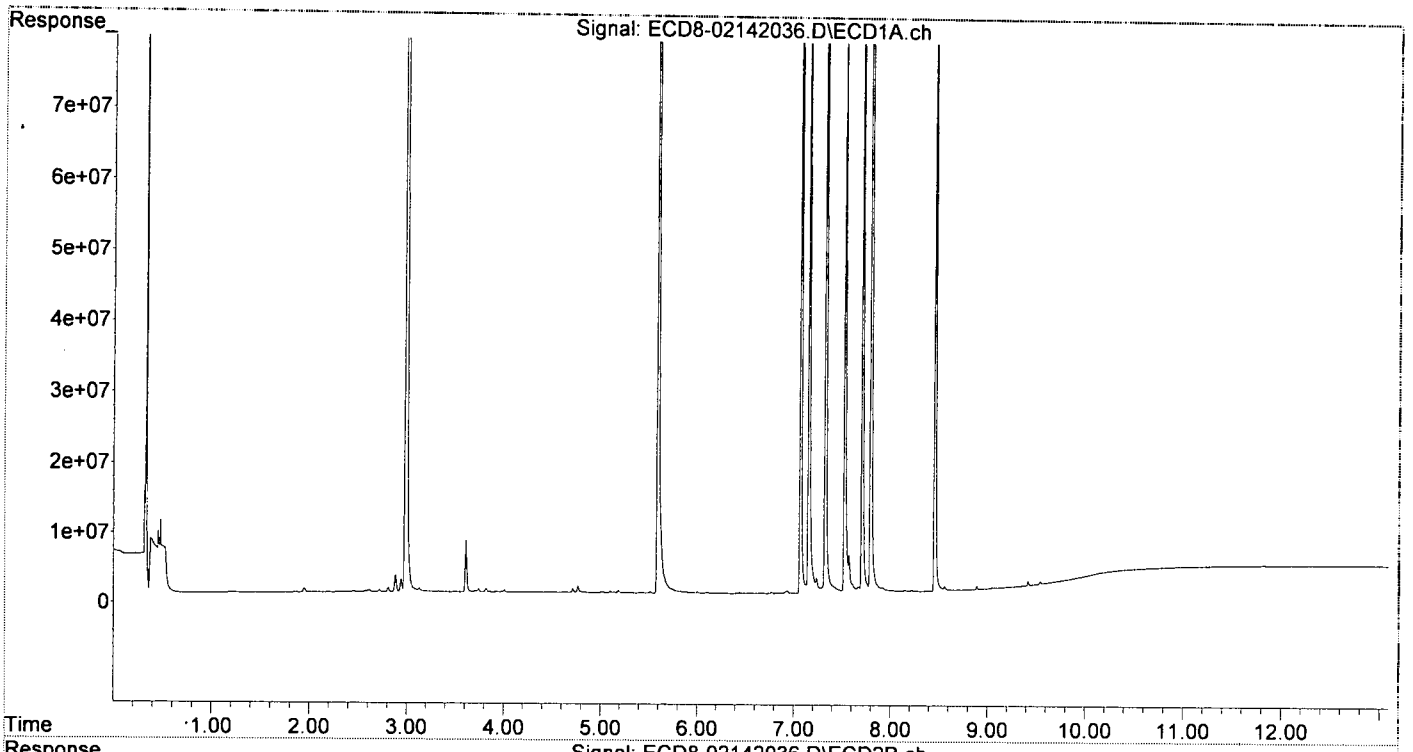
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.186f	5.918	369662	96716	0.106	0.028	#
22)	S	DCBP (S)	9.417	10.446	799489	1020398	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.003f	6.832	188073	25304	0.045	0.049	
4)		b-BHC	6.107	6.896	149467	65956	0.086	0.038	#
5)		Heptachlor	6.441	7.198	195050	187539	0.047	0.045	
6)		d-BHC	6.264	7.151	32396	51114	0.116	0.112	
7)		Aldrin	6.675	7.460	51341	34023	0.013	0.021	#
8)		Heptachlo...	7.155	7.898	105.4E6	623612	28.533	0.174	#
9)		trans-Chl...	7.237	8.035	2148195	124.3E6	0.571	33.426	#
10)		cis-Chlor...	7.327	0.000	179.0E6	0	48.731	N.D.	#
11)		Endosulfa...	0.000	8.194	0	379407	N.D.	0.115	#
12)		4,4'-DDE	0.000	8.297f	0	113288	N.D.	0.125	#
13)		Dieldrin	7.572f	8.408	5379913	103.4E6	1.411	28.390	#
14)		Endrin	7.797f	8.631	202.7E6	122.8E6	62.100	40.141	#
15)		4,4'-DDD	7.797f	8.669	202.7E6	221.9E6	79.636	78.505	
16)		Endosulfa...	7.923	8.754f	609319	468158	0.204	0.147	#
17)		4,4'-DDT	8.025	8.898	204896	109062	0.076	0.019	#
18)		Endrin Al...	8.221	9.013	218544	73839	0.083	0.028	#
19)		Endosulfa...	0.000	9.201	0	36976	N.D.	BelowCal	
20)		Methoxychlor	8.376	9.383	12134	71974	0.010	BelowCal	#
21)		Endrin Ke...	8.705	9.590	77004	119.9E6	0.022	39.466	#
23)		Hexachlor...	2.991	3.604	188.5E6	245.7E6	48.352	50.742	
24)		Hexachlor...	5.593	6.372	155.7E6	178.4E6	46.315	56.426	
25)		Oxychlordane	7.070	7.829	163.5E6	168.2E6	52.658	52.598	
26)		2,4'-DDE	7.155	8.035	105.4E6	124.3E6	45.572	54.681	
27)		trans-Non...	7.327	8.104	179.0E6	182.1E6	48.812	50.447	
28)		2,4'-DDD	7.526	8.408	84675772	103.4E6	43.719	53.995	
29)		2,4'-DDT	7.707	8.631	104.4E6	122.8E6	43.628	52.418	
30)		cis-Nonac...	7.797	8.669	202.7E6	221.9E6	49.803	55.685	
31)		Mirex	8.458	9.590	124.0E6	119.9E6	51.306	56.024	
32)		Chlordane...	7.237	8.035	2148195	124.3E6	5.364	286.070	#
33)		Chlordane...	7.327	0.000	179.0E6	0	367.968	N.D.	#
34)		Chlordane...	0.000	8.827	0	335967	N.D.	2.829	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.327	8.408f	179.0E6	103.4E6	10932.172	3507.454	#
37)		Toxaphene...	7.572f	8.754f	5379913	468158	171.251	11.649	#
38)		Toxaphene...	7.923	8.754	609319	468158	5.496	7.236	#
39)		Toxaphene...	8.150	8.827	201859	335967	BelowCal	BelowCal	
40)		Toxaphene...	8.376	9.013	12134	73839	0.224	1.288	#
41)		Toxaphene...	8.458	9.383	124.0E6	71974	1630.214	1.090	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

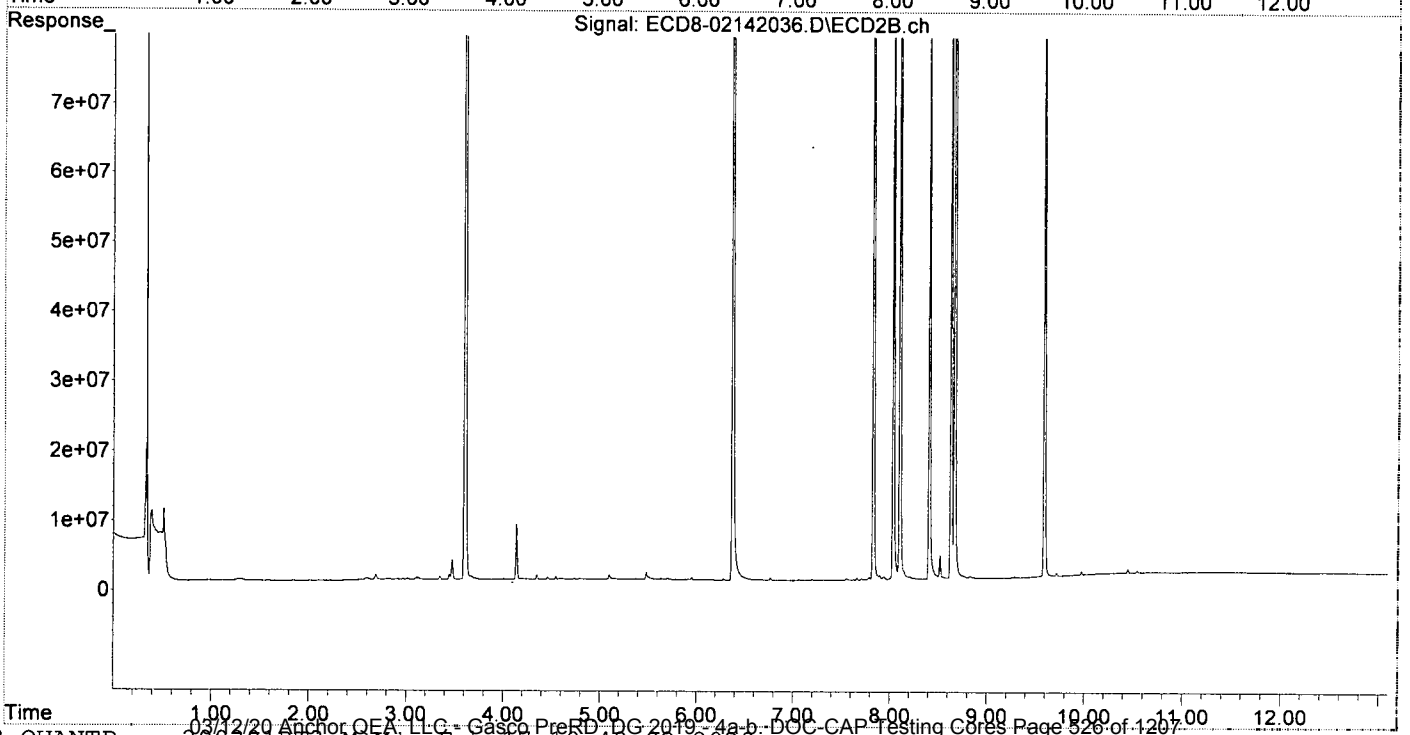
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:28
Operator : MJB
Sample : 0B14020-CCVC
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:45
Operator : MJB
Sample : 0B14020-CCB3
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

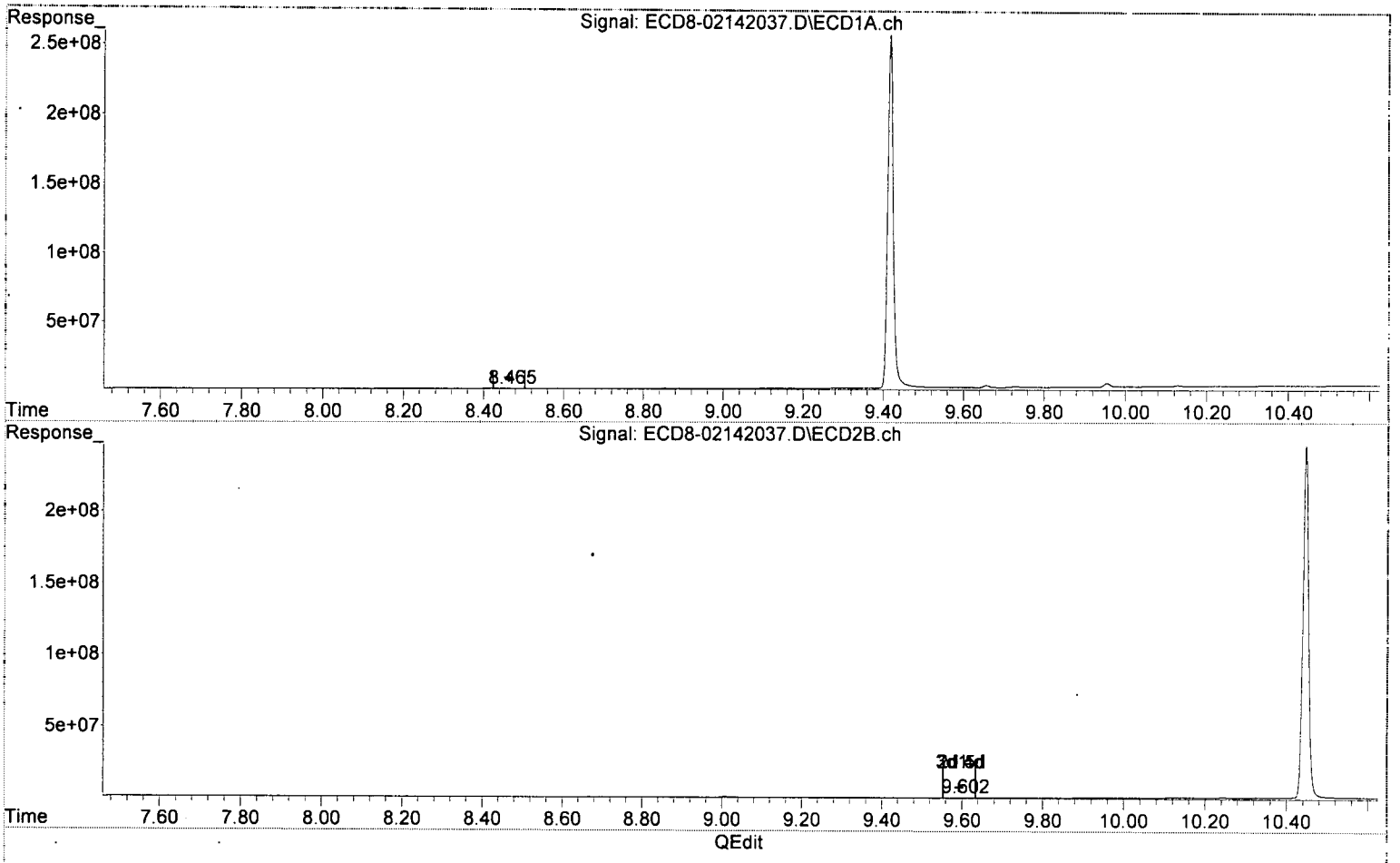
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.211	5.905	303.6E6	347.3E6	86.853	100.673	
22)	S	DCBP (S)	9.417	10.445	256.6E6	243.6E6	95.855	107.757	
		Target Compounds							
2)		a-BHC	5.764	6.471f	12302	44095	0.003	0.086	#
3)		g-BHC	0.000	6.790f	0	31607	N.D.	0.050	#
4)		b-BHC	6.111	6.900	103929	15035	0.060	0.009	#
5)		Heptachlor	6.447	7.213	10516	13700	0.003	0.003	#
6)		d-BHC	0.000	7.150	0	18395	N.D.	0.103	#
7)		Aldrin	6.673	7.488f	23394	130239	0.006	0.047	#
8)		Heptachlo...	7.145	7.902	10677	30602	0.003	0.009	#
9)		trans-Chl...	7.240	8.046	87679	61477	0.023	0.017	#
10)		cis-Chlor...	7.335	8.152	57057	10433	0.016	0.003	#
11)		Endosulfa...	7.429	8.205	15012	13838	0.004	0.004	
12)		4,4'-DDE	7.399	8.267	22320	12886	0.007	0.092	#
13)		Dieldrin	7.605	8.416	14522	16529	0.004	0.037	#
14)		Endrin	0.000	8.635	0	20701	N.D.	BelowCal	
15)		4,4'-DDD	7.846	8.669	9207	19913	0.004	0.051	#
16)		Endosulfa...	7.926	8.794	151371	17451	0.051	BelowCal	#
17)		4,4'-DDT	0.000	8.897	0	29914	N.D.	BelowCal	
18)		Endrin Al...	8.217	9.007	83470	518644	0.032	0.196	#
19)		Endosulfa...	8.518	9.204	48145	51964	0.017	BelowCal	#
20)		Methoxychlor	0.000	9.376	0	46789	N.D.	BelowCal	
21)		Endrin Ke...	8.707	9.602	30363	144451	0.009	BelowCal	#
23)		Hexachlor...	2.995	3.622	60651	65153	0.016	0.013	
24)		Hexachlor...	5.593	6.364	398483	40231	0.119	BelowCal	#
25)		Oxychlordane	7.080	7.833	150618	43536	BelowCal	0.014	
26)		2,4'-DDE	7.145	8.046	10677	61477	0.005	0.027	#
27)		trans-Non...	7.335	8.107	57057	31688	0.016	0.009	#
28)		2,4'-DDD	7.532	8.416	8048	16529	0.004	0.009	#
29)		2,4'-DDT	7.715	8.635	14961	20701	0.006	BelowCal	#
30)		cis-Nonac...	0.000	8.669	0	19913	N.D.	0.005	#
31)		Mirex	8.466	9.602	110369	144451	~~8199.083~~ Q-PCI	BelowCal	#
32)		Chlordane...	7.240	8.046	87679	61477	0.219	0.141	#
33)		Chlordane...	7.335	8.152	57057	10433	0.117	0.029	#
34)		Chlordane...	7.878	8.830	18157	300856	0.139	2.533	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.335	8.378	57057	7053	3.486	0.239	#
37)		Toxaphene...	7.605	8.713	14522	11395	0.462 Q-PCI	0.284	#
38)		Toxaphene...	7.926	8.756	151371	178219	~~6751.786~~	2.755	#
39)		Toxaphene...	8.155	8.830	192796	300856	BelowCal	BelowCal	
40)		Toxaphene...	8.413f	9.007	387906	518644	7.157	9.047	#
41)		Toxaphene...	8.466	9.376	110369	46789	1.451	0.708	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:45
Operator : MJB
Sample : 0B14020-CCB3
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.466min 8199.083 ng/mL Q-2e1

response 110369

WP 2/17/20

(31) Mirex #2

9.602min -0.183 ng/mL

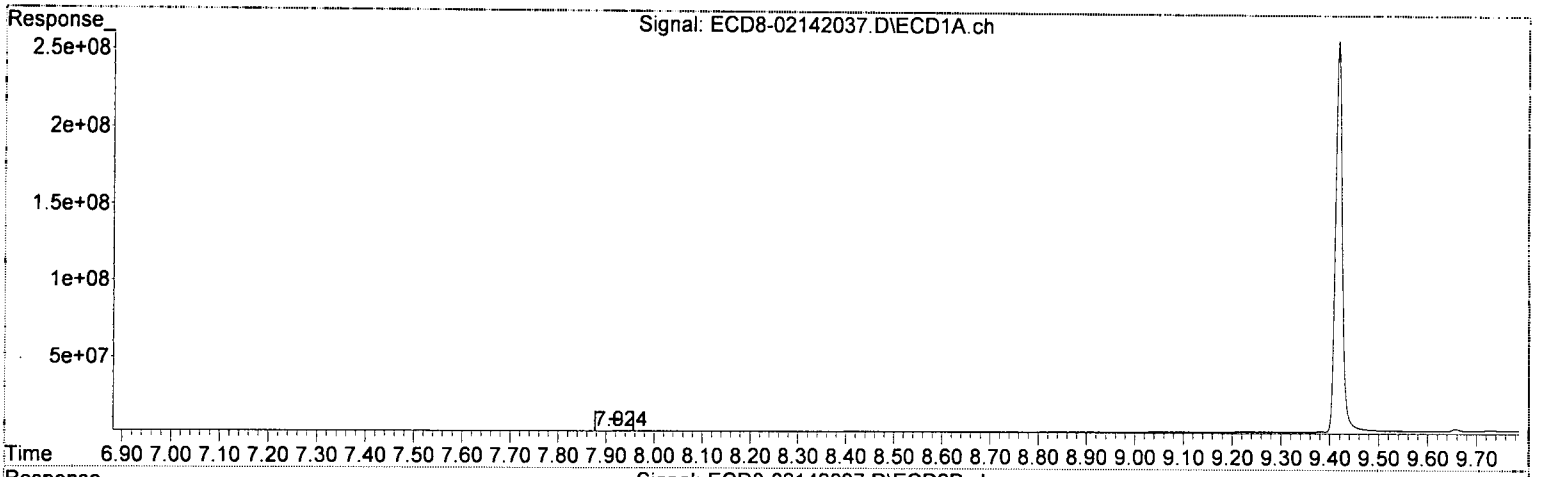
response 144451

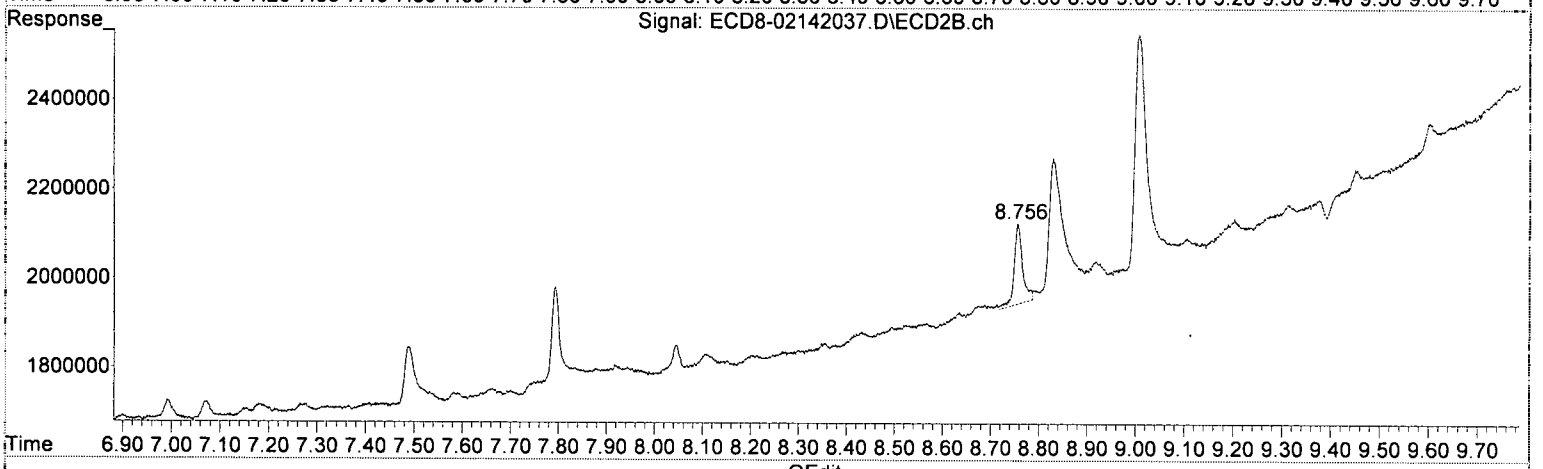
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:45
Operator : MJB
Sample : 0B14020-CCB3
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.926min 96751.786 ng/mL Q-Del

response 151371

MJB 2/17/20

MJB 2/17/20

(38) Toxaphene (3) #2

8.756min 2.755 ng/mL

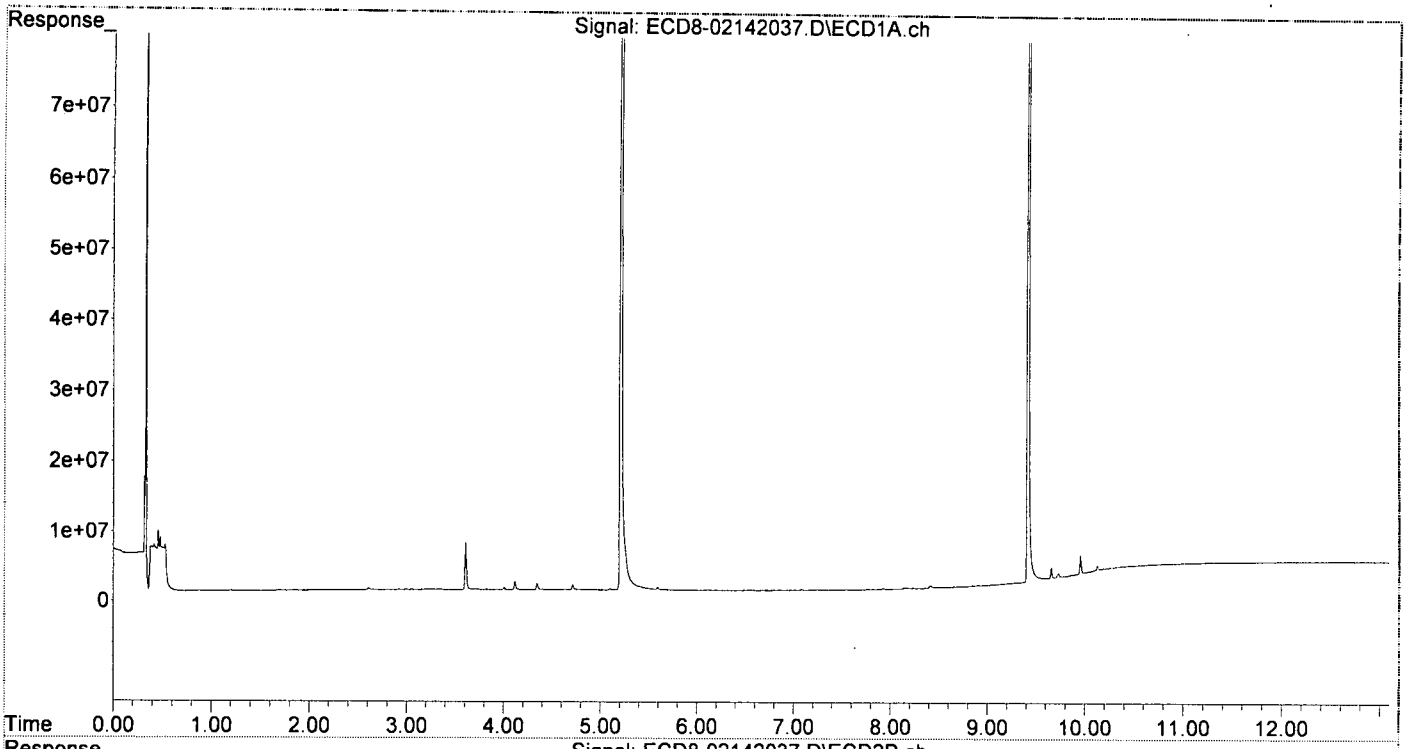
response 178219

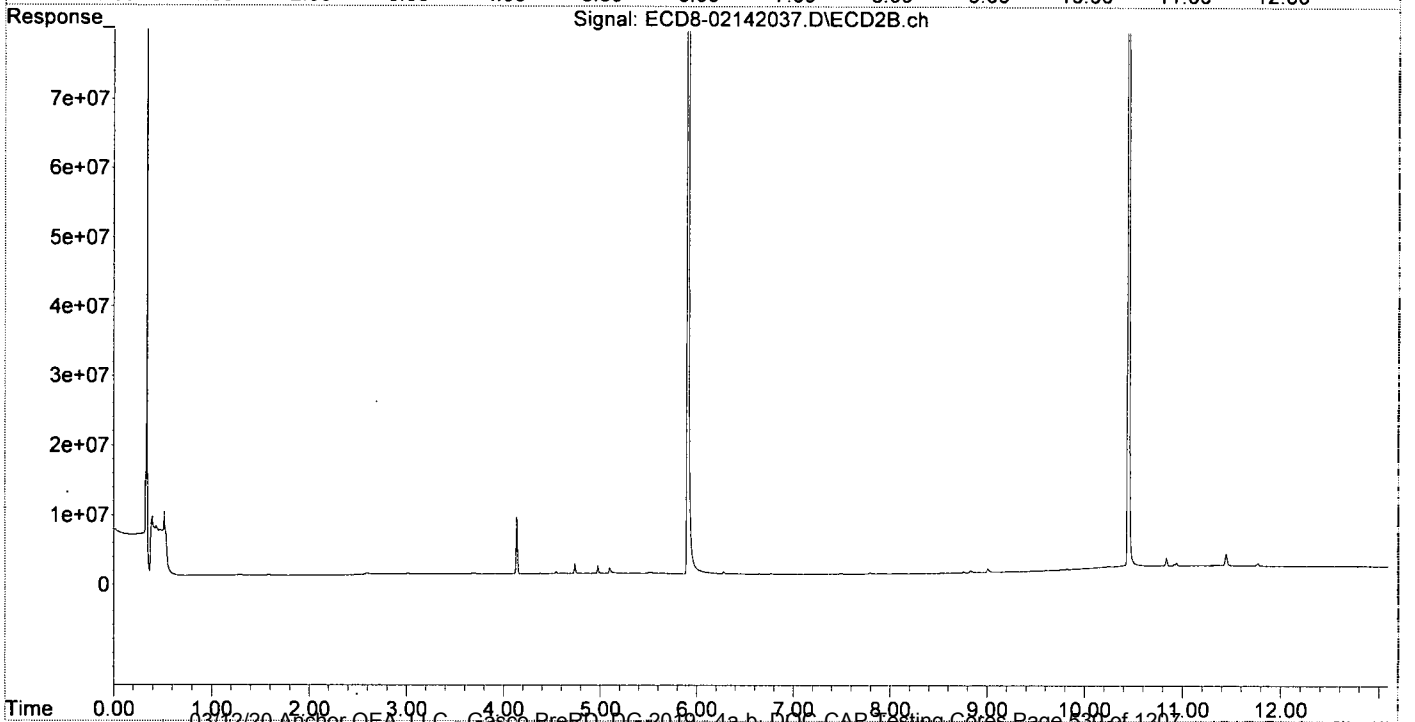
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 21:45
Operator : MJB
Sample : 0B14020-CCB3
Misc : A20A395
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Do not Report

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04

MJB 2/17/20

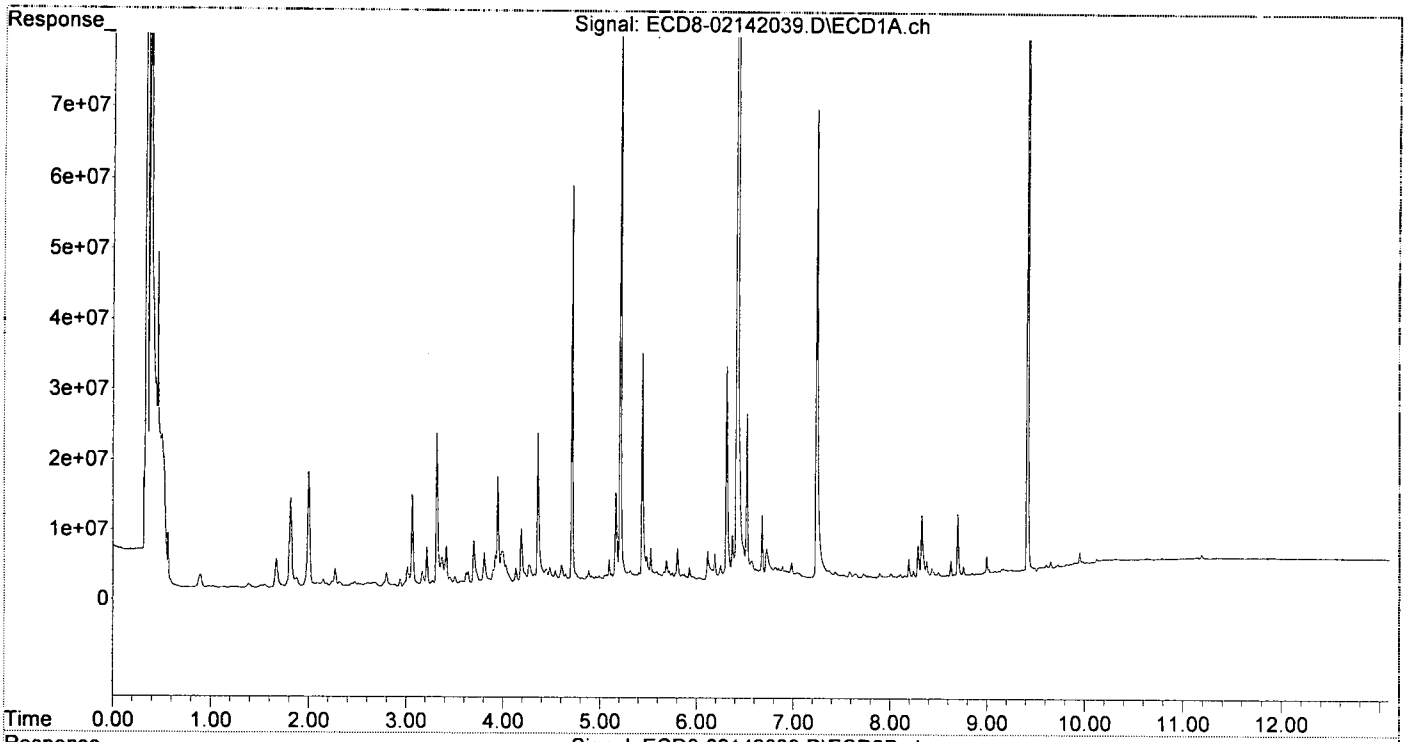
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.210	5.904	99073132	104.7E6	28.338	30.358	
22)	S	DCBP (S)	9.413	10.443	146.6E6	123.6E6	55.634	57.248	
		Target Compounds							
2)		a-BHC	5.748	6.477f	2858434	2351419	0.605	0.626	
3)		g-BHC	6.046	6.824	2056715	3384238	0.494	0.908	#
4)		b-BHC	6.115	6.919f	5920317	1325098	3.399	0.763	#
5)		Heptachlor	6.417f	7.199	346.6E6	2613961	84.342	0.621	#
6)		d-BHC	6.247	7.168f	3870167	3621903	1.225	1.130	
7)		Aldrin	6.678	7.449	11189807	4534105	2.769	1.222	#
8)		Heptachlo...	7.157	7.912	2399333	743174	0.650	0.207	#
9)		trans-Chl...	7.240	8.020f	68848406	767823	18.308	0.206	#
10)		cis-Chlor...	7.355	8.174f	3333520	105.3E6	0.908	29.901	#
11)		Endosulfa...	7.432	8.174f	3216465	105.3E6	0.927	31.871	#
12)		4,4'-DDE	7.432f	8.263	3216465	1697600	0.969	0.633	#
13)		Dieldrin	7.581f	8.396	3318465	1532978	0.870	0.470	#
14)		Endrin	7.775	8.633	2695810	778399	0.826	0.263	#
15)		4,4'-DDD	7.831	8.658	2509971	1332411	0.986	0.613	#
16)		Endosulfa...	7.917	8.762	2707054	761177	0.905	0.258	#
17)		4,4'-DDT	8.011	8.915	1134065	1852483	0.422m	0.729	#
18)		Endrin Al...	8.194f	9.002	5199370	6559951	1.975	2.481	#
19)		Endosulfa...	8.499	9.214	3322823	965912	1.161	0.297	#
20)		Methoxychlor	8.378	9.374	4899582	999996	4.061	0.570	#
21)		Endrin Ke...	8.697	9.610	11676939	2813624	3.378	0.775	#
23)		Hexachlor...	3.013	3.630f	3296355	423717	0.846	0.088	#
24)		Hexachlor...	5.591	6.383	2942796	1543928	0.875	0.483	#
25)		Oxychlordane	7.065	7.812	2954648	1142194	0.783	0.357	#
26)		2,4'-DDE	7.138f	8.020	509893	767823	0.221m	0.338	#
27)		trans-Non...	7.355f	8.086f	3333520	1188632	0.909	0.329	#
28)		2,4'-DDD	7.516	8.396	721803	1532978	0.373m RT	0.801	#
29)		2,4'-DDT	7.724	8.633	870957	778399	0.364m	0.316	
30)		cis-Nonac...	7.804	8.658	2580548	1332411	0.634	0.334	#
31)		Mirex	8.432f	9.582	3906707	4127347	1.407	1.741	
32)		Chlordane...	7.240	8.020f	68848406	767823	171.915	1.767	#
33)		Chlordane...	7.355	8.174f	3333520	105.3E6	6.854	289.730	#
34)		Chlordane...	7.894	8.808	3146581	1318591	24.168	11.103	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.355f	8.396	3333520	1532978	203.643	52.020	#
37)		Toxaphene...	7.581f	8.728	3318465	1076754	105.632	26.792	#
38)		Toxaphene...	7.917	8.762	2707054	761177	35.308	11.765	#
39)		Toxaphene...	8.152	8.808f	2818857	1318591	36.503	9.521	#
40)		Toxaphene...	8.378	9.002	4899582	6559951	90.394	114.426	#
41)		Toxaphene...	8.432	9.374	3906707	999996	51.367	15.139	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

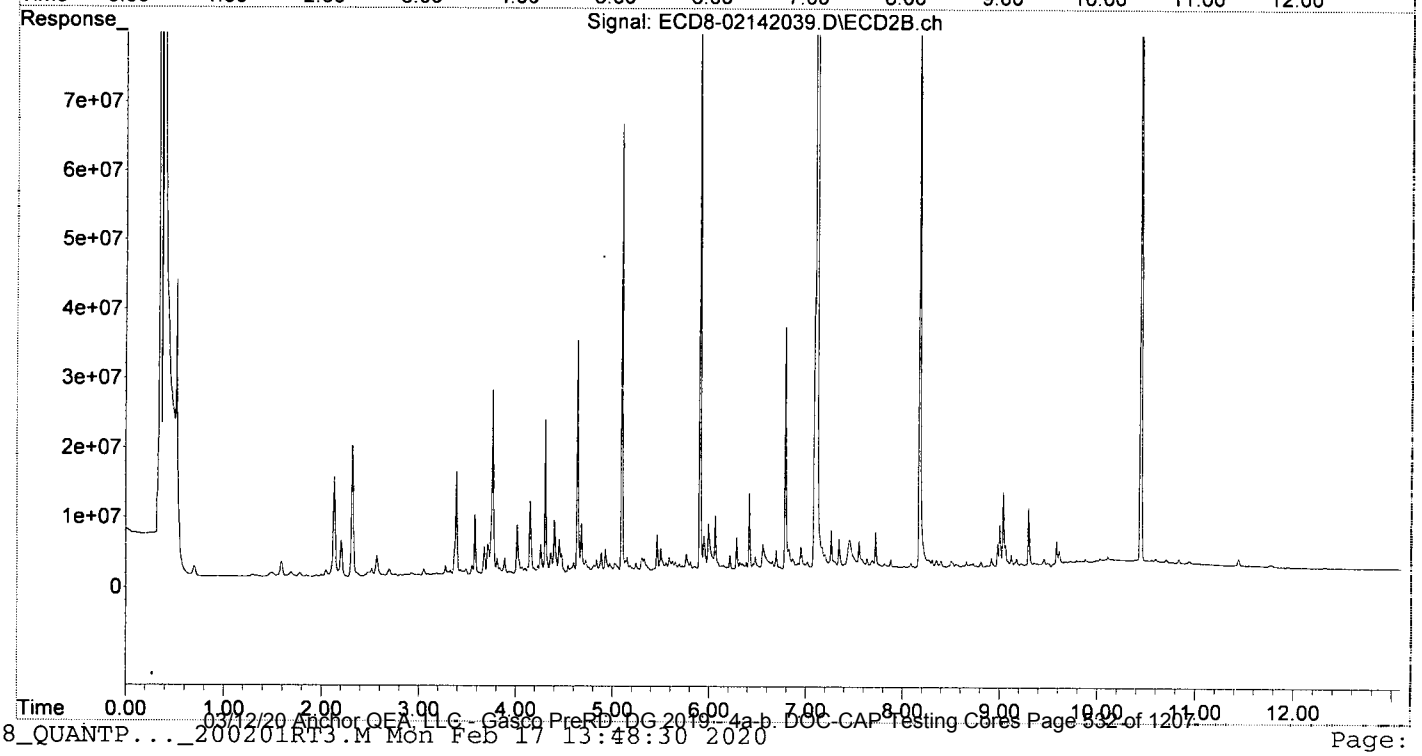
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

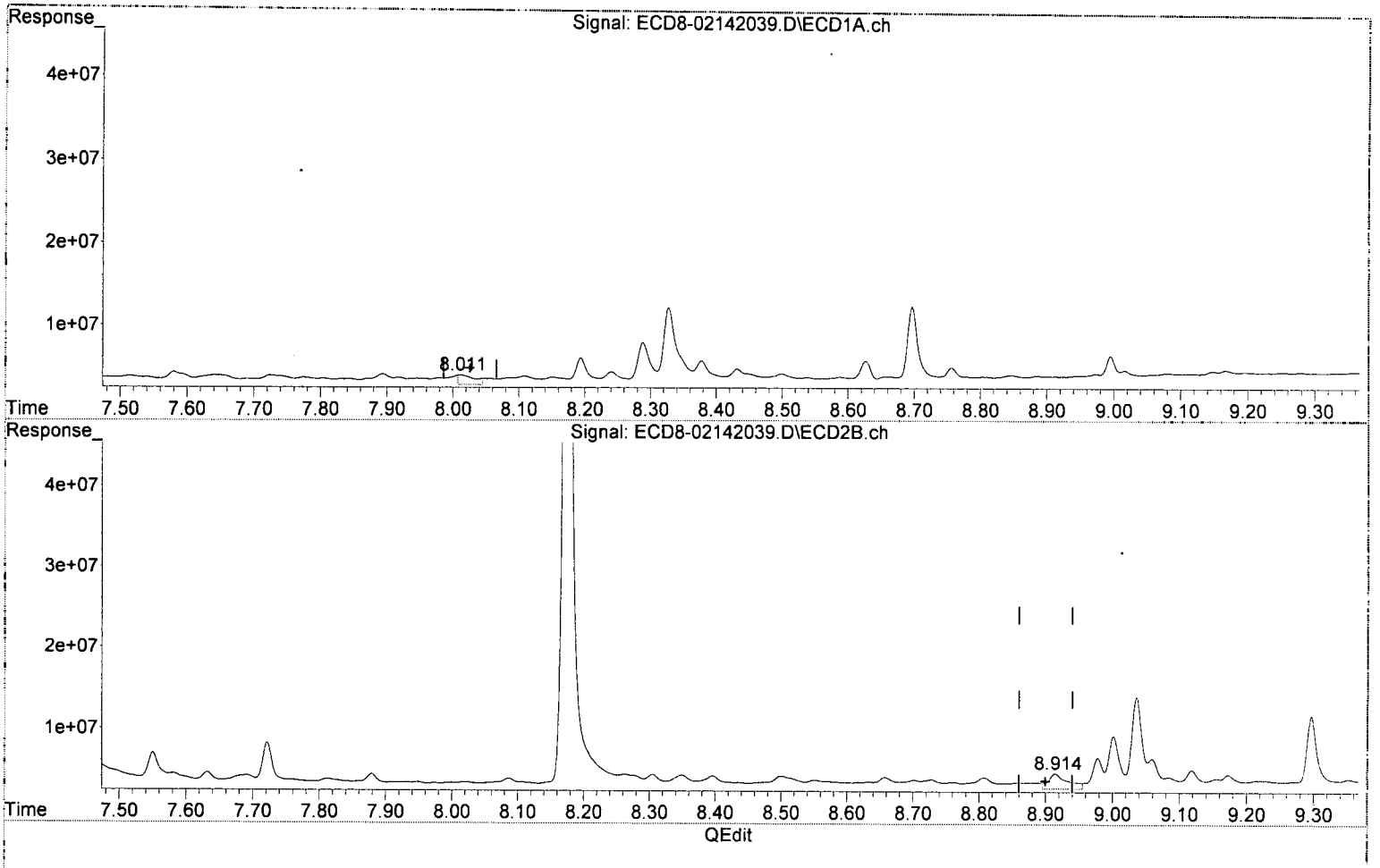




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.011min 0.422 ng/mL

response 1134065

MJB 4/17/20

(17) 4,4'-DDT #2

8.915min 0.729 ng/mL

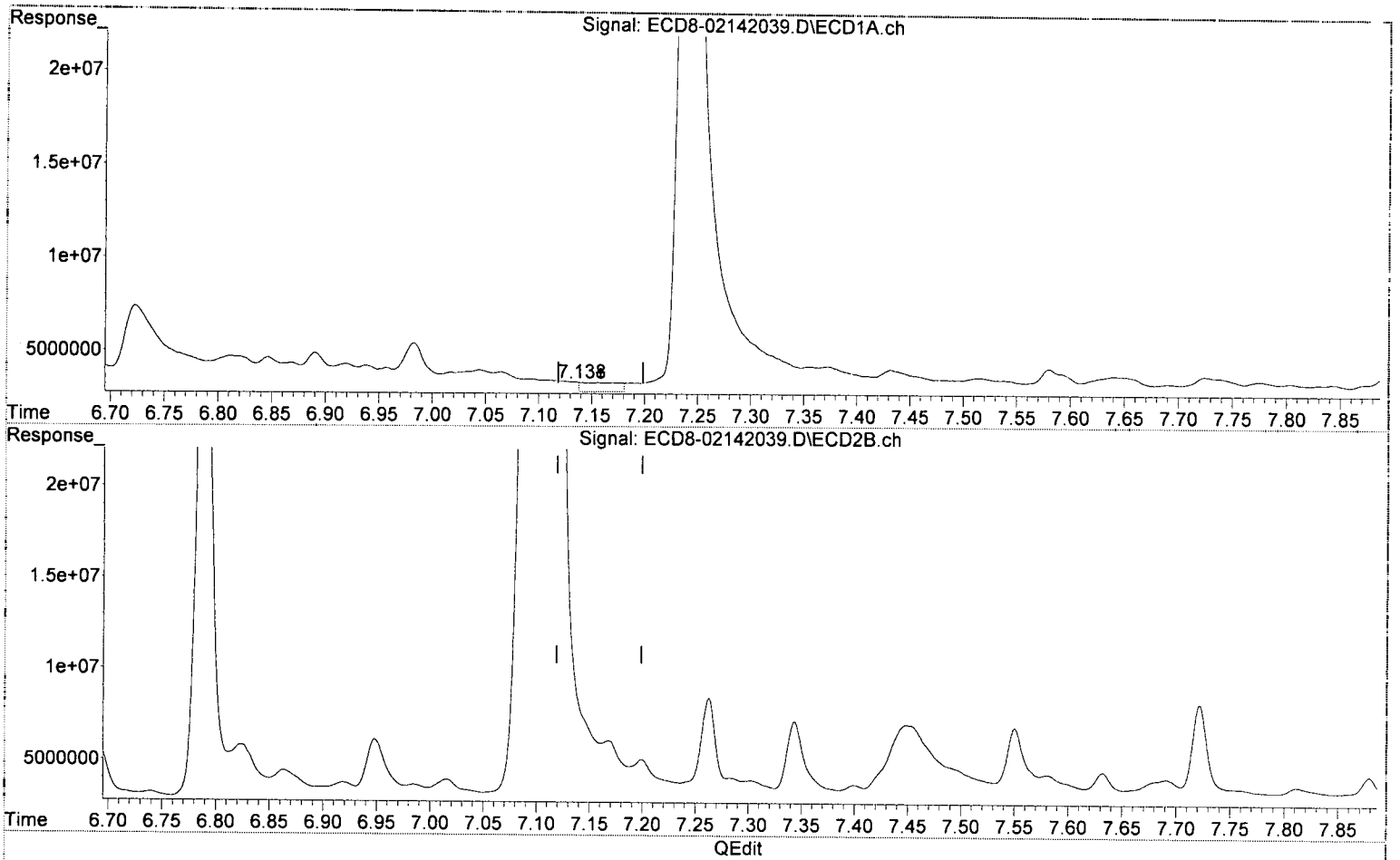
response 1852483

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.138min 0.221 ng/mL (m)

response 509893

MJB 2/17/20

(26) 2,4'-DDE #2

8.020min 0.338 ng/mL

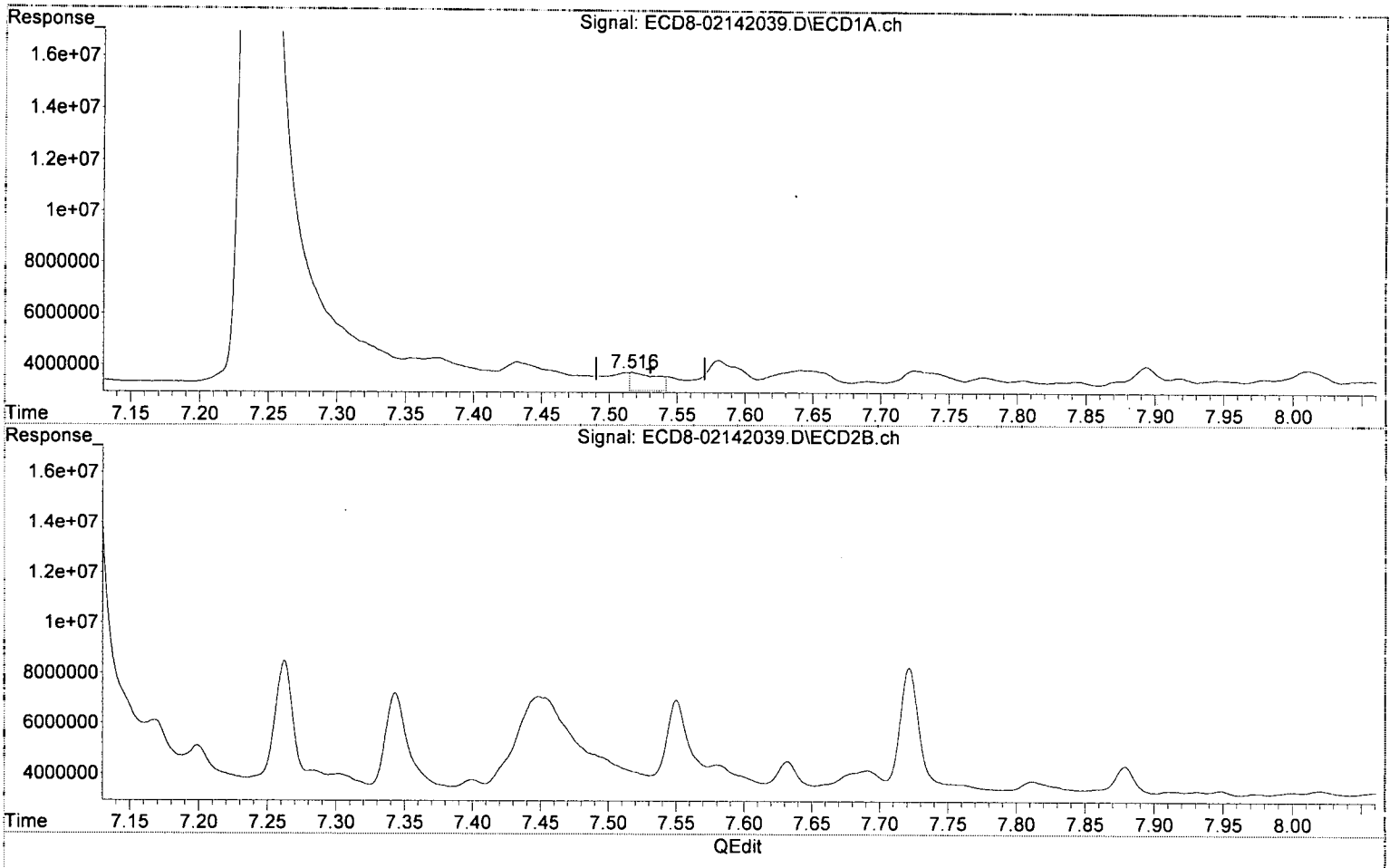
response 767823

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.516min 0.373 ng/mL (m)

response 721803

MJB 2/17/12.

(28) 2,4'-DDD #2

8.396min 0.801 ng/mL

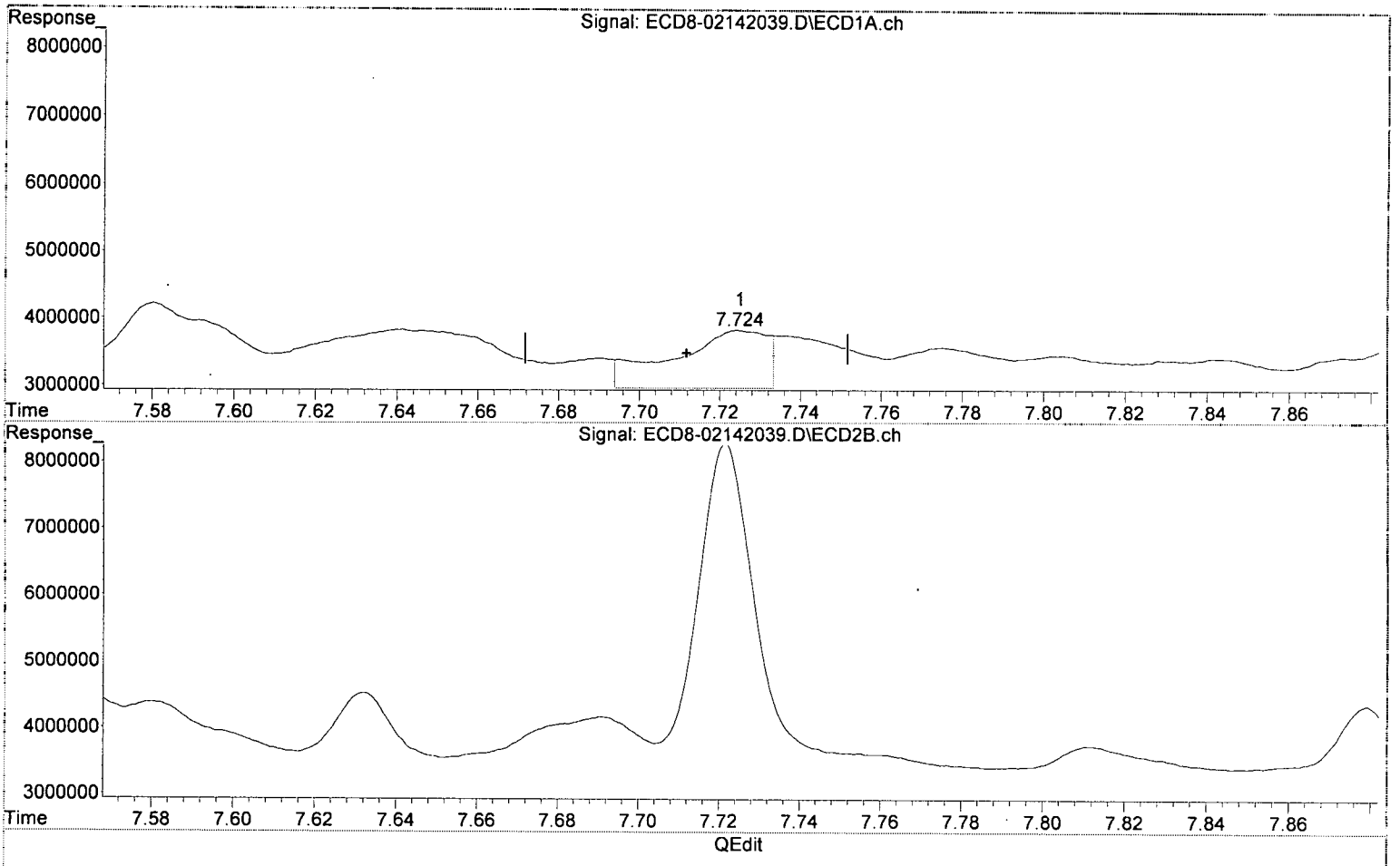
response 1532978

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.724min 0.364 ng/mL m

response 870957

MJB 2/17/20

(29) 2,4'-DDT #2

8.633min 0.316 ng/mL

response 778399

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

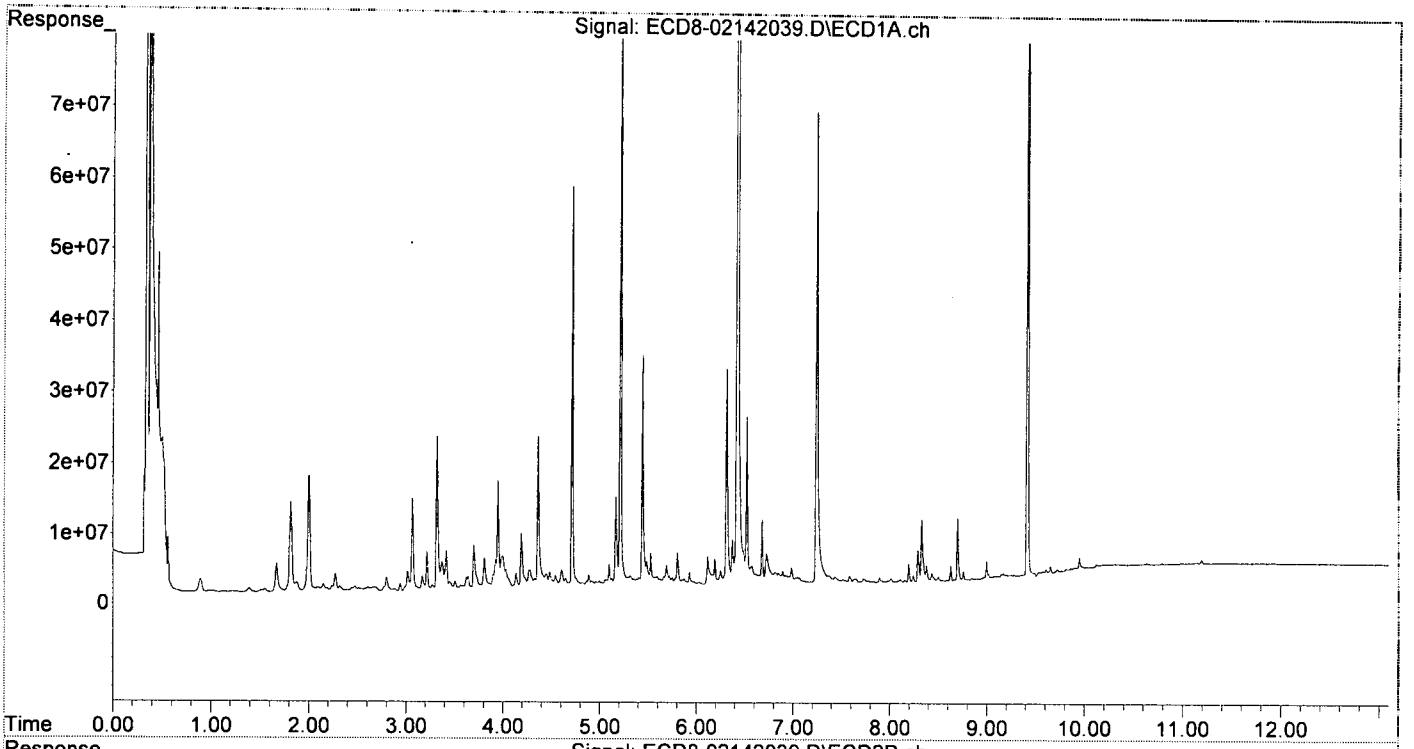
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.210	5.904	99073132	104.7E6	28.338	30.358	
22)	S	DCBP (S)	9.413	10.443	146.6E6	123.6E6	55.634	57.248	
		Target Compounds							
2)		a-BHC	5.748	6.477f	2858434	2351419	0.605	0.626	
3)		g-BHC	6.046	6.824	2056715	3384238	0.494	0.908	#
4)		b-BHC	6.115	6.919f	5920317	1325098	3.399	0.763	#
5)		Heptachlor	6.417f	7.199	346.6E6	2613961	84.342	0.621	#
6)		d-BHC	6.247	7.168f	3870167	3621903	1.225	1.130	
7)		Aldrin	6.678	7.449	11180807	4534105	2.769	1.222	#
8)		Heptachlo...	7.157	7.912	2399333	743174	0.650	0.207	#
9)		trans-Chl...	7.240	8.020f	68848406	767823	18.308	0.206	#
10)		cis-Chlor...	7.355	8.174f	3333520	105.3E6	0.908	29.901	#
11)		Endosulfa...	7.432	8.174f	3216465	105.3E6	0.927	31.871	#
12)		4,4'-DDE	7.432f	8.263	3216465	1697600	0.969	0.633	#
13)		Dieldrin	7.581f	8.396	3318465	1532978	0.870	0.470	#
14)		Endrin	7.775	8.633	2695810	778399	0.826	0.263	#
15)		4,4'-DDD	7.831	8.658	2509971	1332411	0.986	0.613	#
16)		Endosulfa...	7.917	8.762	2707054	761177	0.905	0.258	#
17)		4,4'-DDT	8.011	8.815	3022932	1852483	1.124	0.729	#
18)		Endrin Al...	8.194f	9.002	5199370	6559951	1.975	2.481	#
19)		Endosulfa...	8.499	9.214	3322823	965912	1.161	0.297	#
20)		Methoxychlor	8.378	9.374	4899582	999996	4.061	0.570	#
21)		Endrin Ke...	8.697	9.610	11676939	2813624	3.378	0.775	#
23)		Hexachlor...	3.013	3.630f	3296355	423717	0.846	0.088	#
24)		Hexachlor...	5.591	6.383	2942796	1543928	0.875	0.483	#
25)		Oxychlordane	7.065	7.812	2954648	1142194	0.783	0.357	#
26)		2,4'-DDE	7.157	8.020	2399333	767823	1.038	0.338	#
27)		trans-Non...	7.355f	8.086f	3333520	1188632	0.909	0.329	#
28)		2,4'-DDD	7.516	8.396	2813061	1532978	1.452	0.801	#
29)		2,4'-DDT	7.725	8.633	2946271	778399	1.231	0.316	#
30)		cis-Nonac...	7.804	8.658	2580548	1332411	0.634	0.334	#
31)		Mirex	8.432f	9.582	3906707	4127347	1.407	1.741	
32)		Chlordane...	7.240	8.020f	68848406	767823	171.915	1.767	#
33)		Chlordane...	7.355	8.174f	3333520	105.3E6	6.854	289.730	#
34)		Chlordane...	7.894	8.808	3146581	1318591	24.168	11.103	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.355f	8.396	3333520	1532978	203.643	52.020	#
37)		Toxaphene...	7.581f	8.728	3318465	1076754	105.632	26.792	#
38)		Toxaphene...	7.917	8.762	2707054	761177	35.308	11.765	#
39)		Toxaphene...	8.152	8.808f	2818857	1318591	36.503	9.521	#
40)		Toxaphene...	8.378	9.002	4899582	6559951	90.394	114.426	#
41)		Toxaphene...	8.432	9.374	3906707	999996	51.367	15.139	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

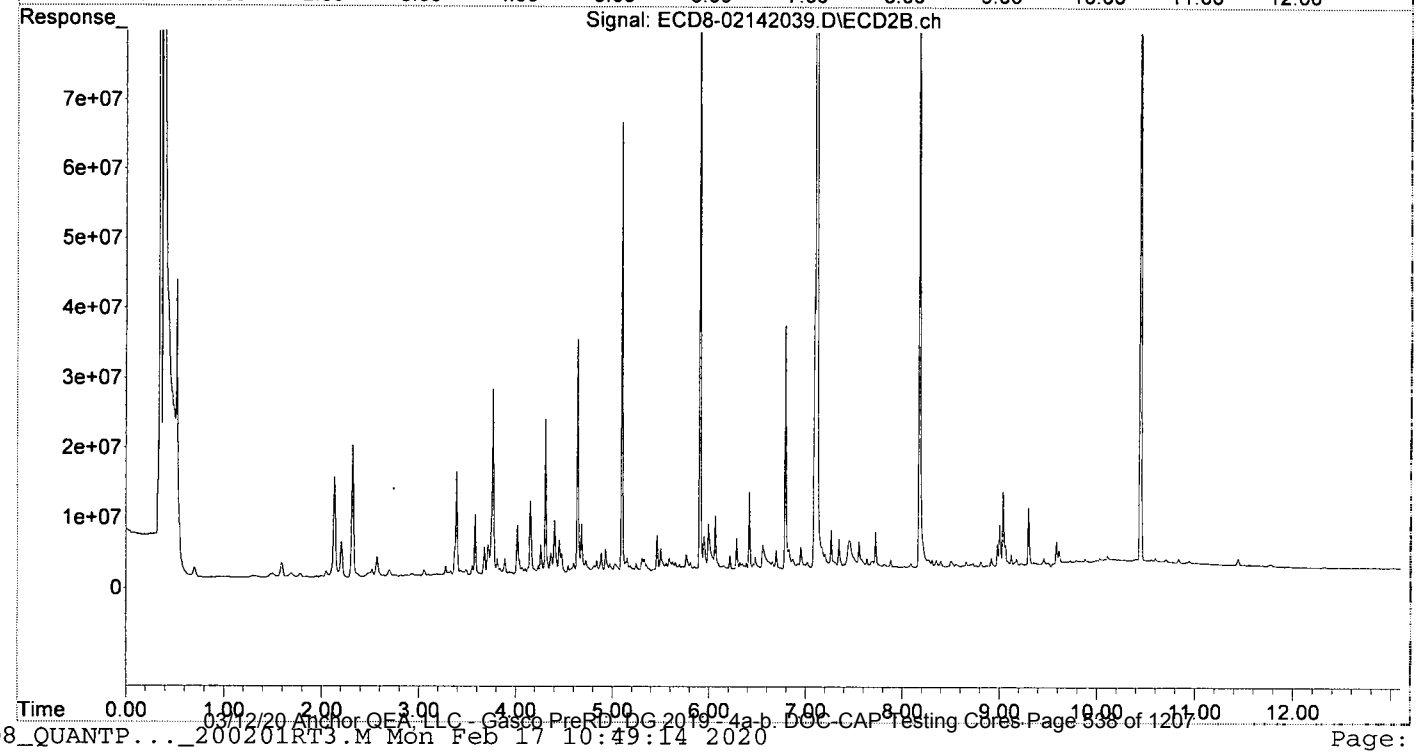
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:18
Operator : MJB
Sample : A0A1011-03RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R_04

MB 2/17/20

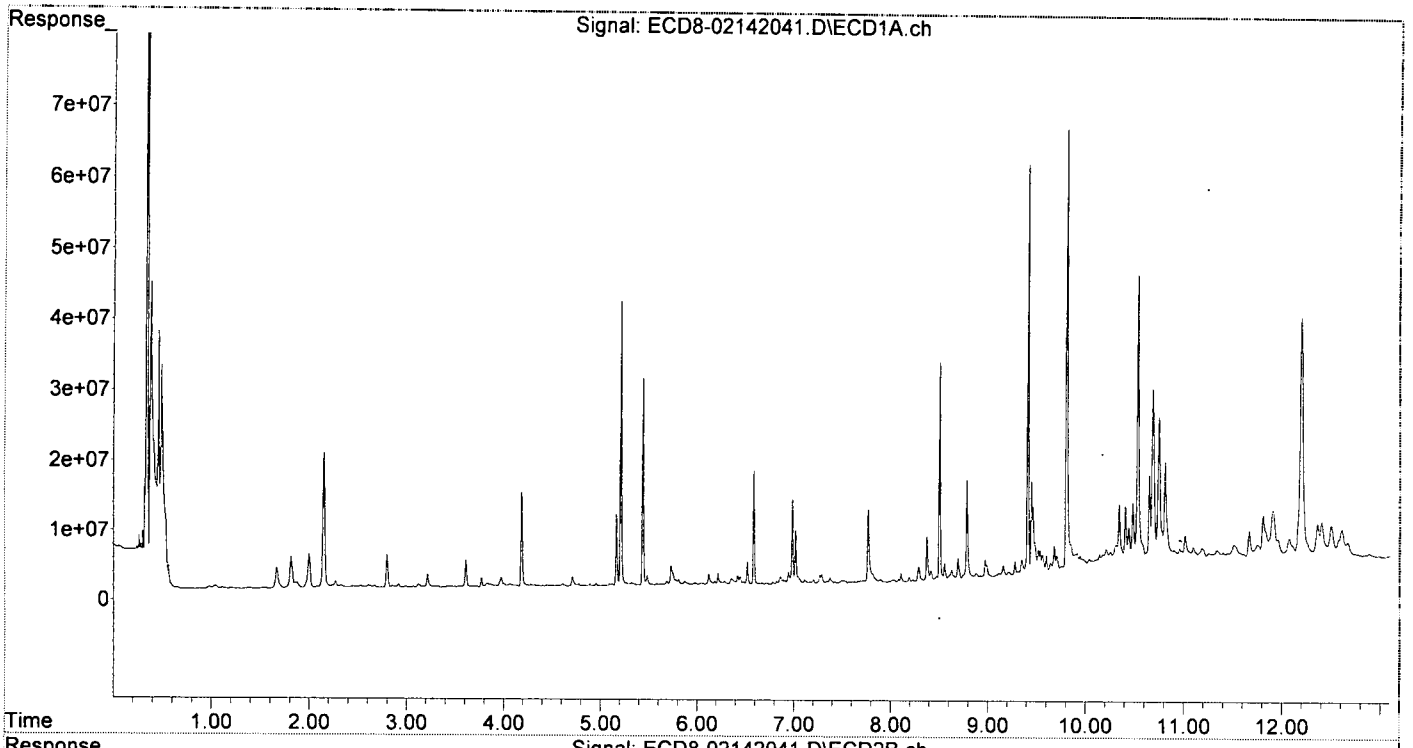
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.209	5.905	40619059	43242190	11.618	12.536
22) S	DCBP (S)	9.410	10.442	58667891	49723410	22.408	23.542
	Target Compounds						
2)	a-BHC	5.730f	6.504	2797987	441367	0.592	0.179 #
3)	g-BHC	6.047	6.814	272209	1054012	0.065	0.312 #
4)	b-BHC	6.120	6.903	1557022	854911	0.894	0.492 #
5)	Heptachlor	6.444	7.202	1168225	277380	0.284	0.066 #
6)	d-BHC	6.252	7.167	319376	659692	0.199	0.286 #
7)	Aldrin	6.673	7.473	219660	230937	0.054	0.074 #
8)	Heptachlo...	7.170f	7.925f	262674	398025	0.071	0.111 #
9)	trans-Chl...	7.269f	8.042	1177666	708720	0.313	0.191 #
10)	cis-Chlor...	7.347	8.170	295742	1382142	0.081	0.392 #
11)	Endosulfa...	7.429	8.202	221720	291819	0.064	0.088 #
12)	4,4'-DDE	7.394	8.264	352880	366526	0.106m	0.206 #
13)	Dieldrin	7.608	8.382	159306	15031842	0.042	4.300 #
14)	Endrin	7.768	8.632	10540065	644908	3.230	0.217 #
15)	4,4'-DDD	7.813	8.684	1265675	510707	0.497	0.262m#
16)	Endosulfa...	7.940	8.807f	113778	1573802	0.038	0.566 #
17)	4,4'-DDT	8.030	8.895	334045	422236	0.124	0.147
18)	Endrin Al...	8.231	9.003	268053	520835	0.102	0.197 #
19)	Endosulfa...	8.504	9.214	31170106	3262992	10.890	1.215 #
20)	Methoxychlor	8.374	9.400f	6337155	3806084	5.252	3.198 #
21)	Endrin Ke...	8.694	9.594	3052609	2308163	0.883	0.596 #
23)	Hexachlor...	2.990	3.580f	208677	2603376	0.054	0.538 #
24)	Hexachlor...	5.589	6.384	290745	669723	0.086	0.179 #
25)	Oxychlordane	7.044f	7.820	1054876	2197247	0.164	0.687 #
26)	2,4'-DDE	7.169	8.022	264564	1367238	0.114m	0.602m#
27)	trans-Non...	7.347	8.102	295742	1108016	0.081	0.307 #
28)	2,4'-DDD	7.521	8.382f	381190	15031842	0.197m	7.852 # P-01
29)	2,4'-DDT	7.711	8.632	275698	644908	0.115	0.254 #
30)	cis-Nonac...	7.813	8.666	1265675	335142	0.311	0.084 #
31)	Mirex	8.475	9.594	589613	2308163	0.037	0.863 #
32)	Chlordane...	7.269f	8.042	1177666	708720	2.941	1.631 #
33)	Chlordane...	7.347	8.170	295742	1382142	0.608	3.802 #
34)	Chlordane...	7.893	8.807	401019	1573802	3.080	13.252 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.288f	8.382	1293567	15031842	79.023	510.091 #
37)	Toxaphene...	7.608	8.742	159306	868210	5.071	21.603 #
38)	Toxaphene...	7.940f	8.742f	113778	868210	96752.320	13.420 #
39)	Toxaphene...	8.151	8.807f	61134	1573802	BelowCal	12.171
40)	Toxaphene...	8.374	9.003	6337155	520835	116.917	9.085 #
41)	Toxaphene...	8.475f	9.400	589613	3806084	7.753	57.621 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

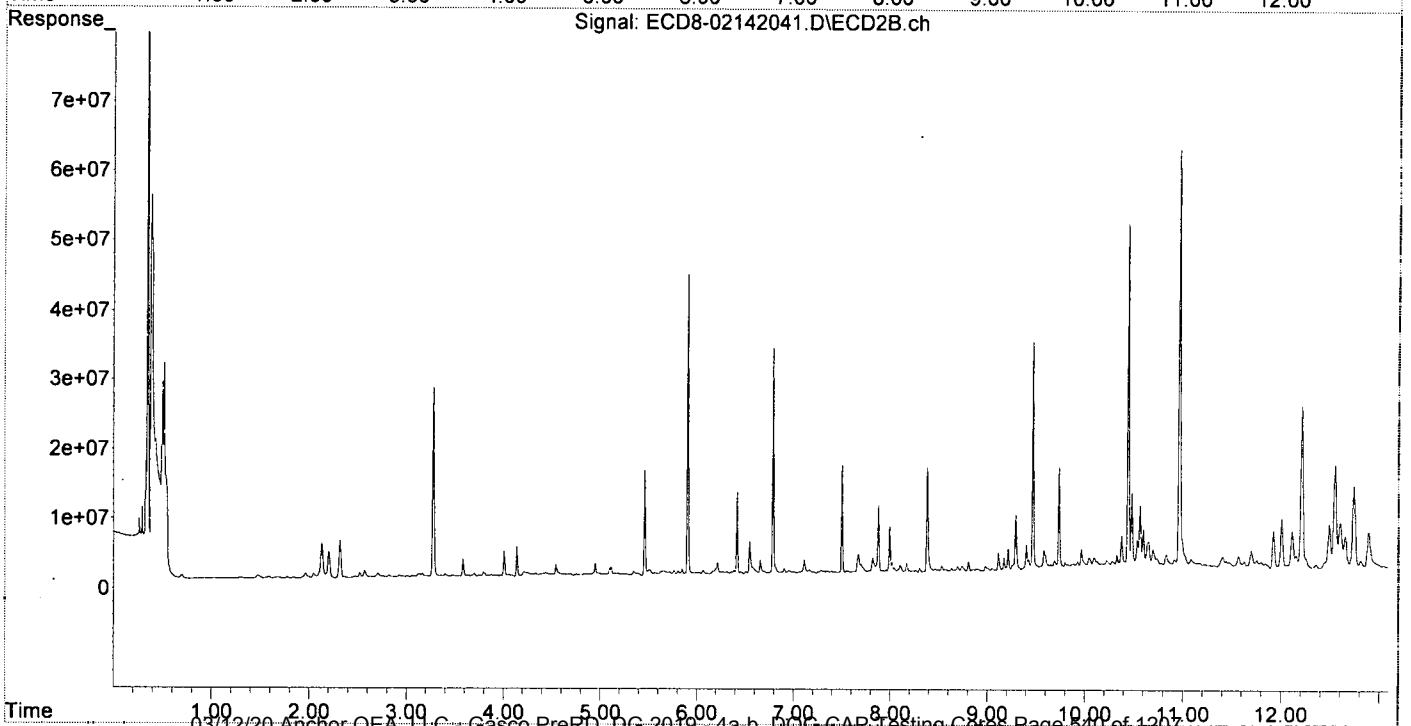
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

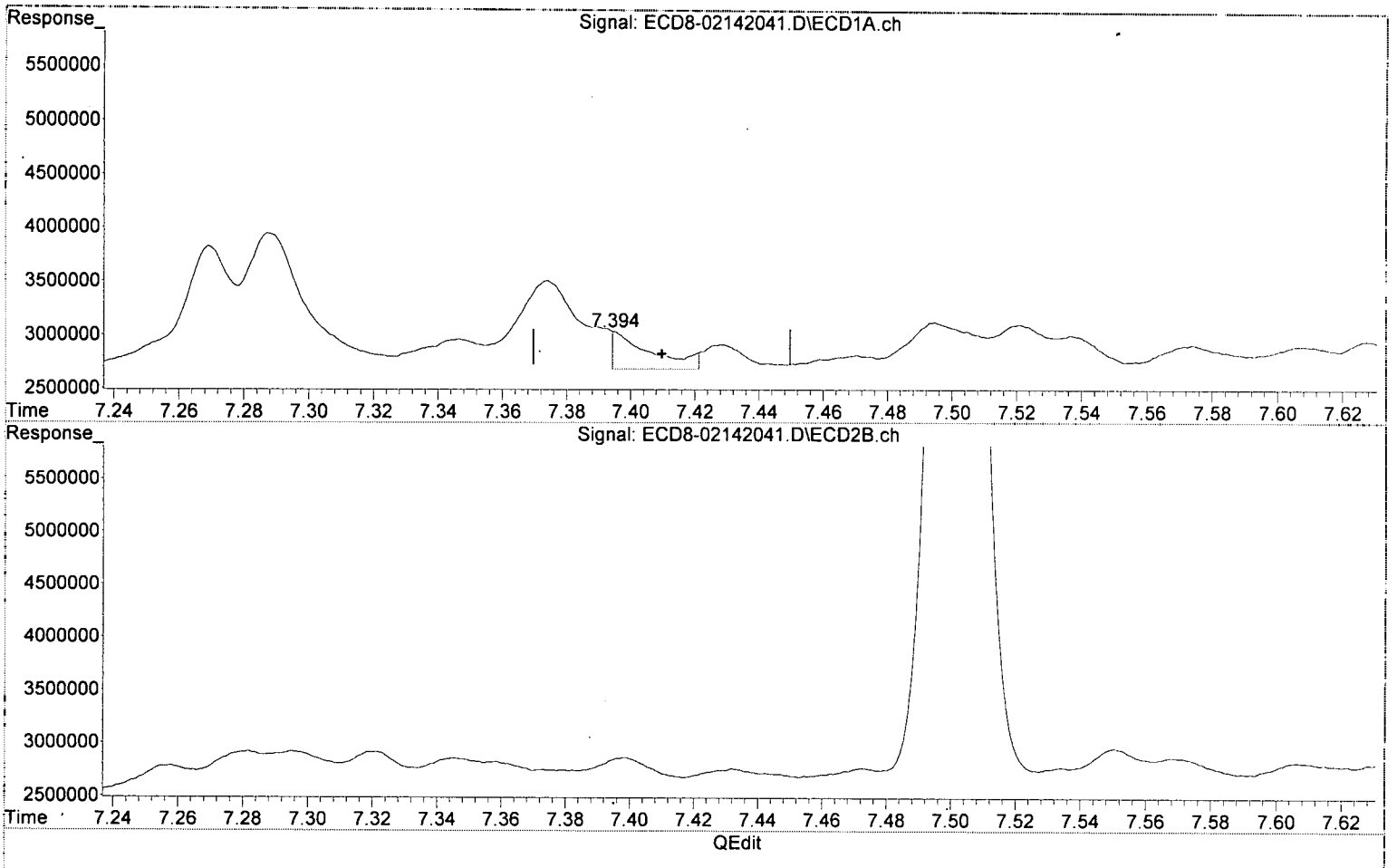




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE

7.394min 0.106 ng/mL (m)

response 352880

MJB 2/17/20

(12) 4,4'-DDE #2

8.264min 0.206 ng/mL

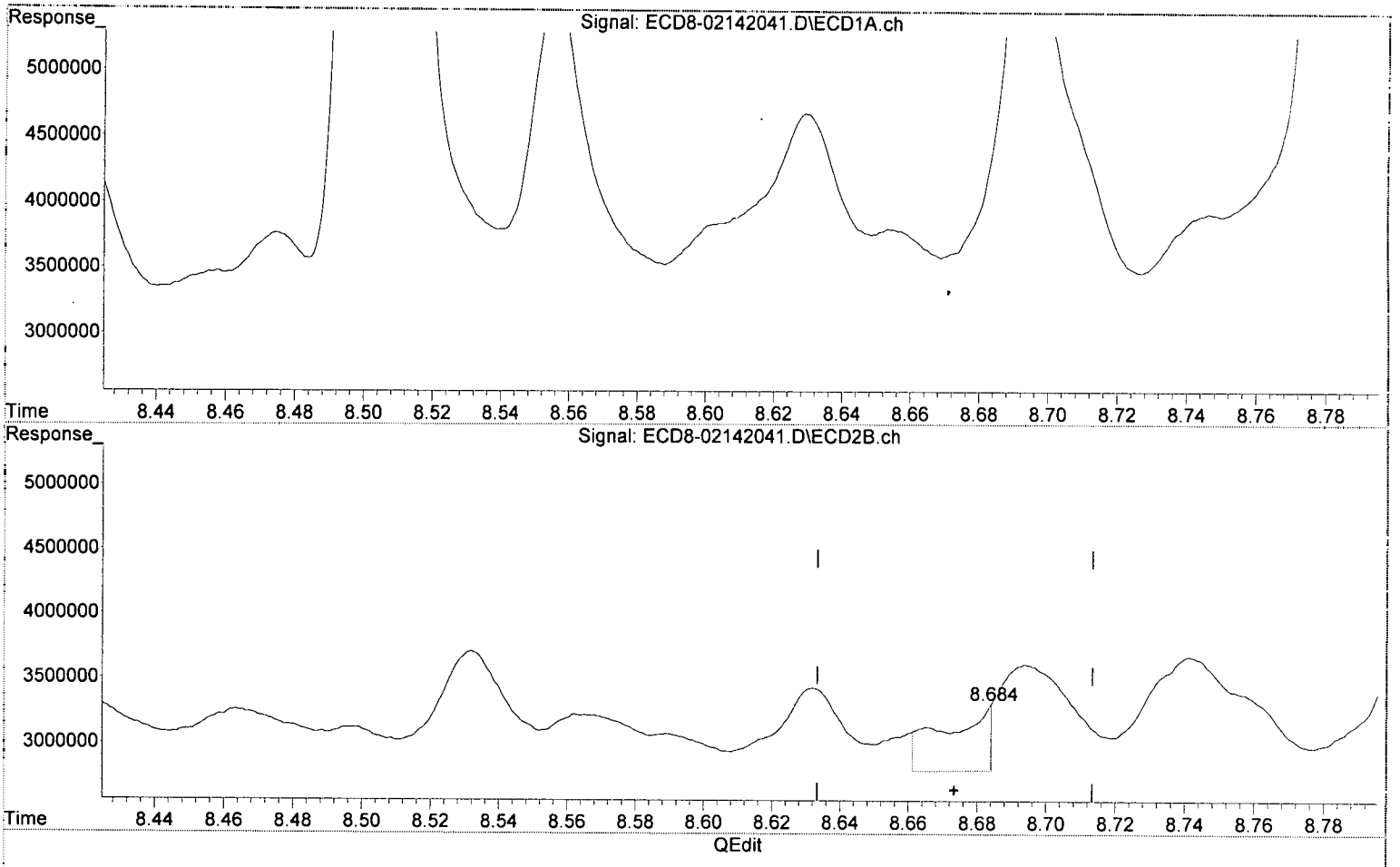
response 366526

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD

7.813min 0.497 ng/mL

response 1265675

MP 2/17/20

(15) 4,4'-DDD #2

8.684min 0.262 ng/mL (m)

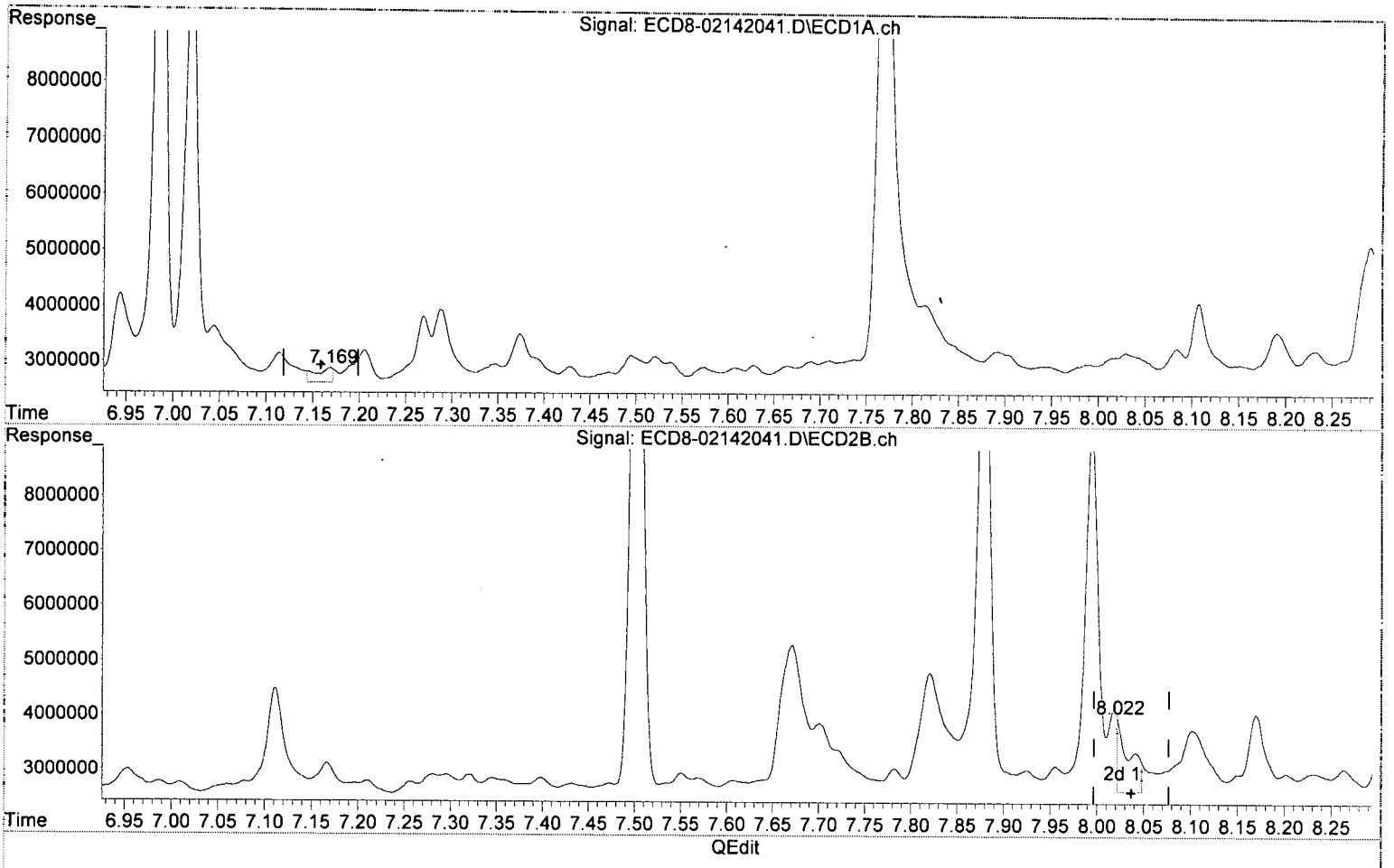
response 510707

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.169min 0.114 ng/mL (m)

response 264564

MR 2/17/20

(26) 2,4'-DDE #2

8.022min 0.602 ng/mL (m)

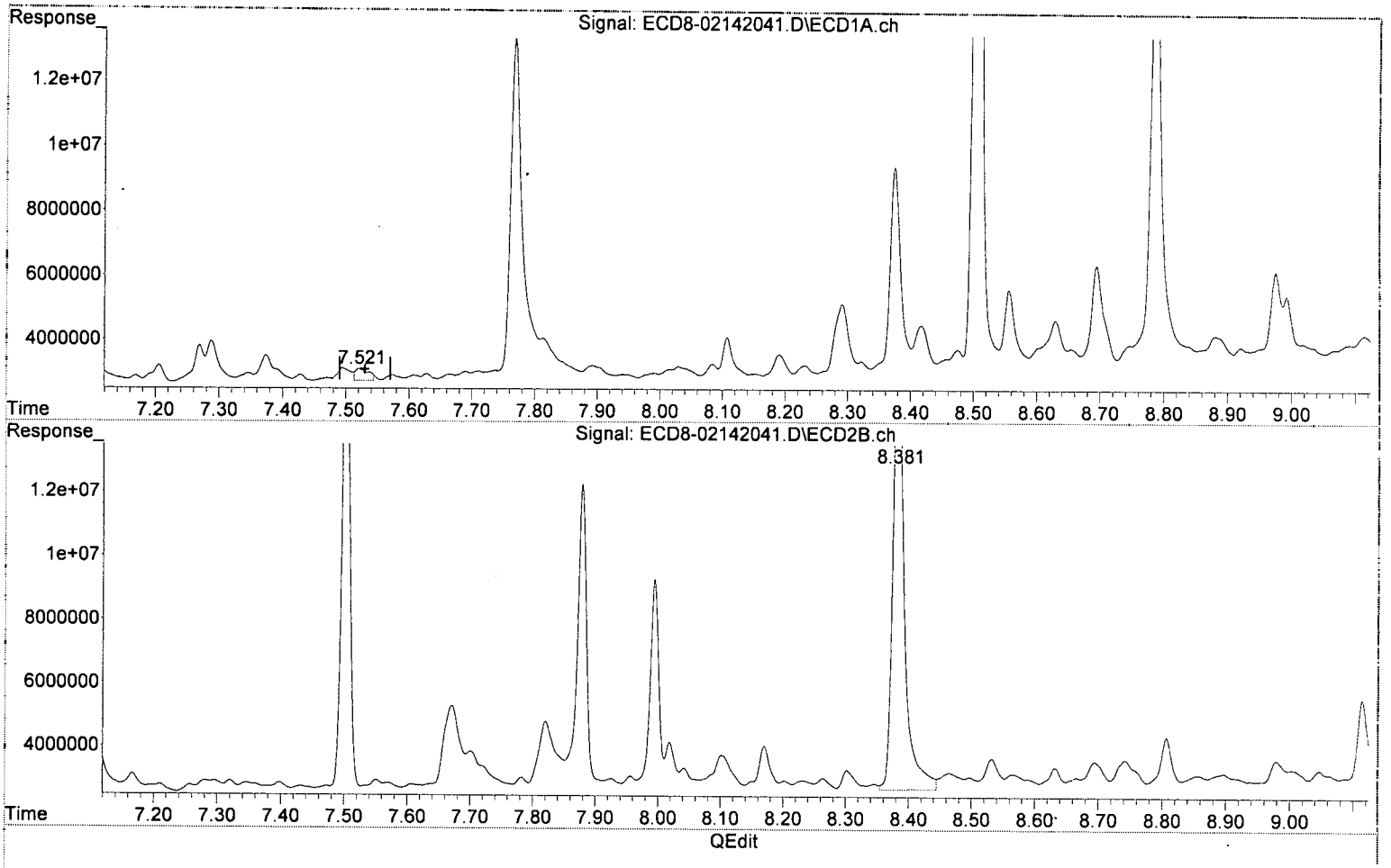
response 1367238

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.521min 0.197 ng/mL (m)

response 381190

MJB 2/17/20

(28) 2,4'-DDD #2

8.382min 7.852 ng/mL P01

response 15031842

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

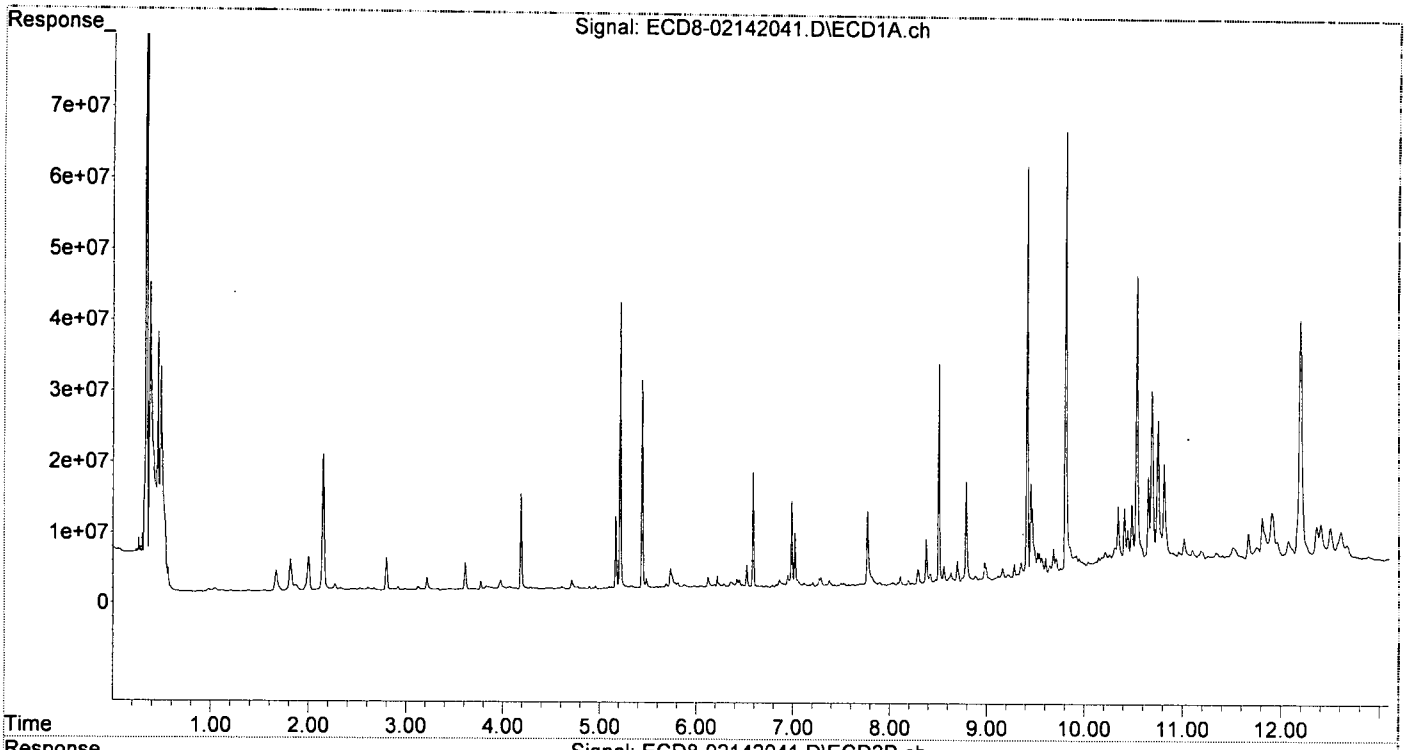
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.209	5.905	40619059	43242190	11.618	12.536	
22)	S	DCBP (S)	9.410	10.442	58667891	49723410	22.408	23.542	
		Target Compounds							
2)		a-BHC	5.730f	6.504	2797987	441367	0.592	0.179	#
3)		g-BHC	6.047	6.814	272209	1054012	0.065	0.312	#
4)		b-BHC	6.120	6.903	1557022	854911	0.894	0.492	#
5)		Heptachlor	6.444	7.202	1168225	277380	0.284	0.066	#
6)		d-BHC	6.252	7.167	319376	659692	0.199	0.286	#
7)		Aldrin	6.673	7.473	219660	230937	0.054	0.074	#
8)		Heptachlo...	7.170f	7.925f	262674	398025	0.071	0.111	#
9)		trans-Chl...	7.269f	8.042	1177666	708720	0.313	0.191	#
10)		cis-Chlor...	7.347	8.170	295742	1382142	0.081	0.392	#
11)		Endosulfa...	7.429	8.202	221720	291819	0.064	0.088	#
12)		4,4'-DDE	7.429	8.264	221720	366526	0.067	0.206	#
13)		Dieldrin	7.608	8.382	159306	15031842	0.042	4.300	#
14)		Endrin	7.768	8.632	10540065	644908	3.230	0.217	#
15)		4,4'-DDD	7.813	8.666	1265675	335142	0.497	0.186	#
16)		Endosulfa...	7.940	8.807f	113778	1573802	0.038	0.566	#
17)		4,4'-DDT	8.030	8.895	334045	422236	0.124	0.147	
18)		Endrin Al...	8.231	9.003	268053	520835	0.102	0.197	#
19)		Endosulfa...	8.504	9.214	31170106	3262992	10.890	1.215	#
20)		Methoxychlor	8.374	9.400f	6337155	3806084	5.252	3.198	#
21)		Endrin Ke...	8.694	9.594	3052609	2308163	0.883	0.596	#
23)		Hexachlor...	2.990	3.580f	208677	2603376	0.054	0.538	#
24)		Hexachlor...	5.589	6.384	290745	669723	0.086	0.179	#
25)		Oxychlordane	7.044f	7.820	1054876	2197247	0.164	0.687	#
26)		2,4'-DDE	7.170	8.042	262674	708720	0.114	0.312	#
27)		trans-Non...	7.347	8.102	295742	1108016	0.081	0.307	#
28)		2,4'-DDD	7.537	8.382f	280472	15031842	0.145	7.852	#
29)		2,4'-DDT	7.711	8.632	275698	644908	0.115	0.254	#
30)		cis-Nonac...	7.813	8.666	1265675	335142	0.311	0.084	#
31)		Mirex	8.475	9.594	589613	2308163	0.037	0.863	#
32)		Chlordane...	7.269f	8.042	1177666	708720	2.941	1.631	#
33)		Chlordane...	7.347	8.170	295742	1382142	0.608	3.802	#
34)		Chlordane...	7.893	8.807	401019	1573802	3.080	13.252	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.288f	8.382	1293567	15031842	79.023	510.091	#
37)		Toxaphene...	7.608	8.742	159306	868210	5.071	21.603	#
38)		Toxaphene...	7.940f	8.742f	113778	868210	96752.320	13.420	#
39)		Toxaphene...	8.151	8.807f	61134	1573802	BelowCal	12.171	
40)		Toxaphene...	8.374	9.003	6337155	520835	116.917	9.085	#
41)		Toxaphene...	8.475f	9.400	589613	3806084	7.753	57.621	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

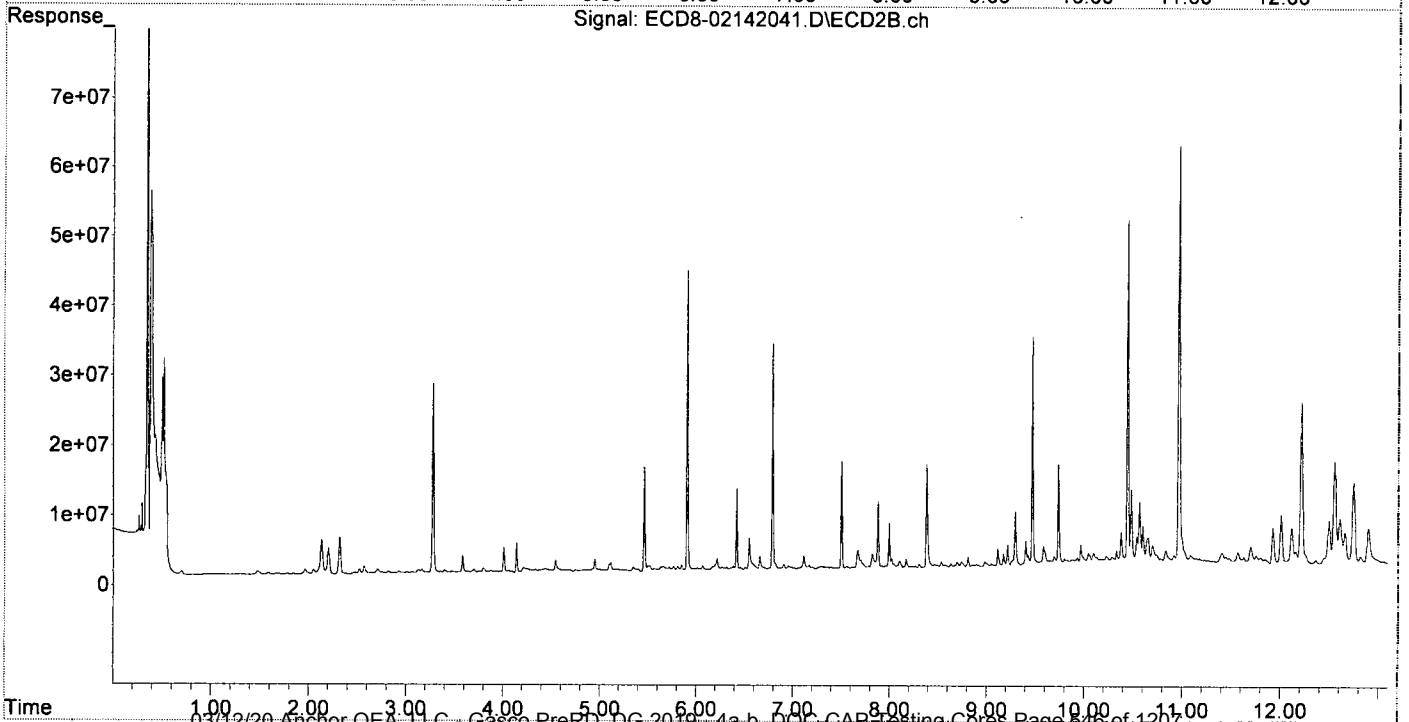
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 22:56
Operator : MJB
Sample : 0020105-DUP1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 23:33
Operator : MJB
Sample : A0A1011-04RE1(5)
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04

MJB 2/17/20

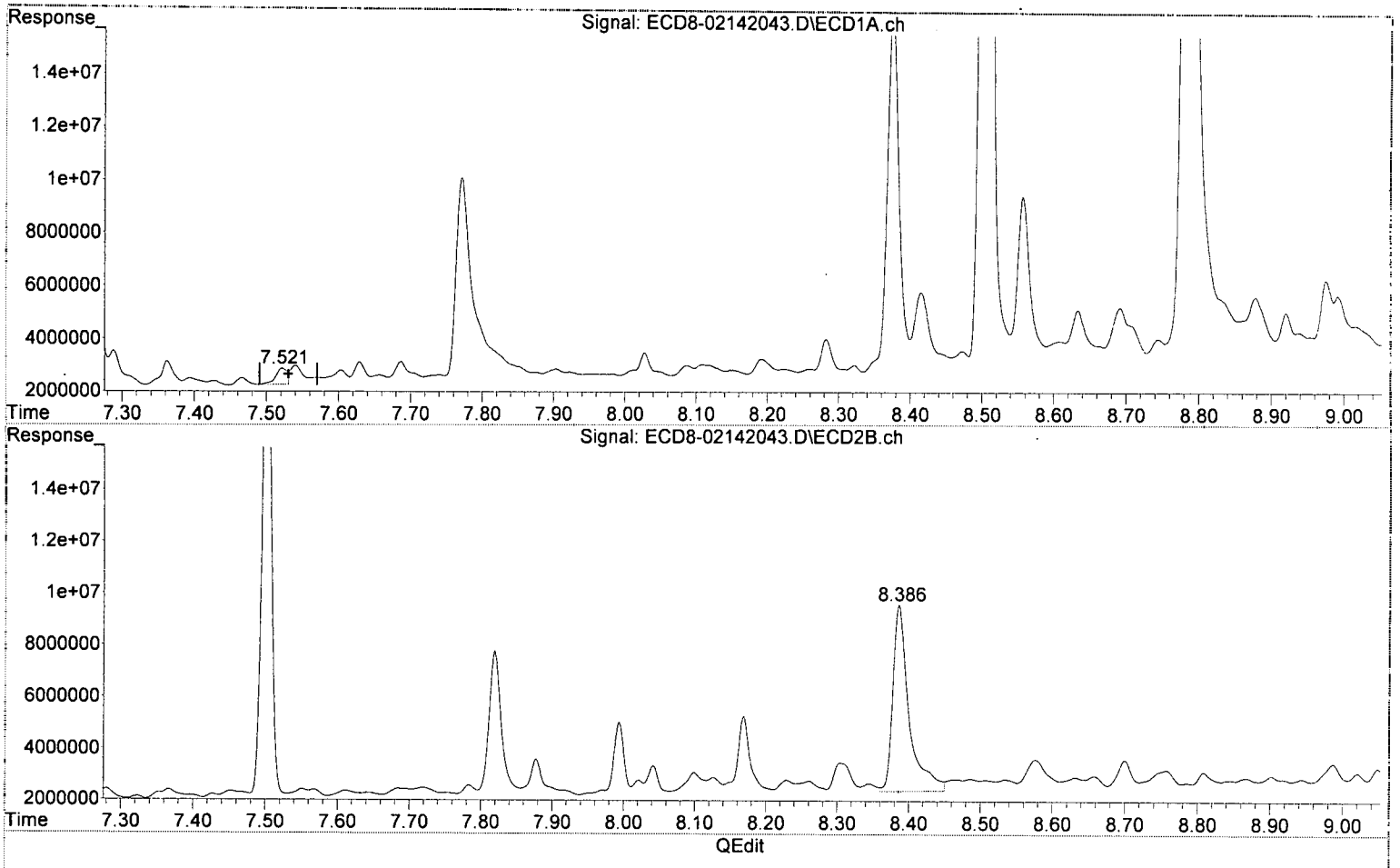
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.207	5.904	14397829	15249666	4.118	4.421	
22)	S	DCBP (S)	9.410	10.442	16696914	15098624	6.187	6.924	R-04
		Target Compounds							
2)		a-BHC	5.748	6.504	186594	444277	0.039	0.180	#
3)		g-BHC	6.036	0.000	191310	0	0.046	N.D.	#
4)		b-BHC	6.123	6.901	472795	1317032	0.271	0.759	#
5)		Heptachlor	6.444	7.205	422528	121822	0.103	0.029	#
6)		d-BHC	6.276	7.143	206459	201732	0.166	0.155	
7)		Aldrin	6.671	7.453	127808	266185	0.032	0.083	#
8)		Heptachlo...	7.143	7.918	472301	179338	0.128	0.050	#
9)		trans-Chl...	7.268f	8.042	2941979	1111869	0.782	0.299	#
10)		cis-Chlor...	7.363f	8.169	954002	2985986	0.260	0.848	#
11)		Endosulfa...	7.428	8.229f	175035	481453	0.050	0.146	#
12)		4,4'-DDE	7.394	8.261	298893	431154	0.090	0.227	#
13)		Dieldrin	7.604	8.386	492458	7196782	0.129	2.082	#
14)		Endrin	7.771	8.631	7717693	453790	2.365	0.150	#
15)		4,4'-DDD	0.000	8.659	0	500630	N.D.	0.257	#
16)		Endosulfa...	7.923	8.785	232915	175258	0.078	0.036	#
17)		4,4'-DDT	8.028	8.903	912966	416266	0.340	0.144	#
18)		Endrin Al...	8.225	9.021	163328	483925	0.062	0.183	#
19)		Endosulfa...	8.504	9.214	80087183	7976255	27.981	3.087	#
20)		Methoxychlor	8.375	9.362	13601853	523629	11.272	0.120	#
21)		Endrin Ke...	8.692	9.596	2125675	3334451	0.615	0.959	#
23)		Hexachlor...	2.991	3.625	242277	296333	0.062	0.061	
24)		Hexachlor...	5.588	6.384	167240	430038	0.050	0.095	#
25)		Oxychlordane	7.052f	7.819	698247	5592402	0.048	1.749	#
26)		2,4'-DDE	7.143	8.042	472301	1111869	0.204	0.489	#
27)		trans-Non...	7.363f	8.100	954002	821664	0.260	0.228	
28)		2,4'-DDD	7.522	8.386f	613981	7196782	0.317	3.760	# I-01
29)		2,4'-DDT	7.687f	8.631	772212	453790	0.323	0.164	#
30)		cis-Nonac...	7.771f	8.659	7717693	500630	1.896	0.126	#
31)		Mirex	8.473	9.596	672481	3334451	0.071	1.358	#
32)		Chlordane...	7.268f	8.042	2941979	1111869	7.346	2.559	#
33)		Chlordane...	7.363f	8.169	954002	2985986	1.962	8.213	#
34)		Chlordane...	7.904f	8.809	359311	594590	2.760	5.007	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.288f	8.386	1383445	7196782	84.514	244.216	#
37)		Toxaphene...	7.604	8.700f	492458	1109525	15.676	27.608	#
38)		Toxaphene...	7.923	8.758	232915	699223	0.149	10.808	#
39)		Toxaphene...	8.151	8.846	169947	272789	BelowCal	BelowCal	
40)		Toxaphene...	8.375	9.021	13601853	483925	250.946	8.441	#
41)		Toxaphene...	8.473f	9.401	672481	7993778	8.842	121.019	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 23:33
Operator : MJB
Sample : A0A1011-04RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.522min 0.317 ng/mL

response 613981

MJB 2/17/20

(28) 2,4'-DDD #2

8.386min 3.760 ng/mL P-01

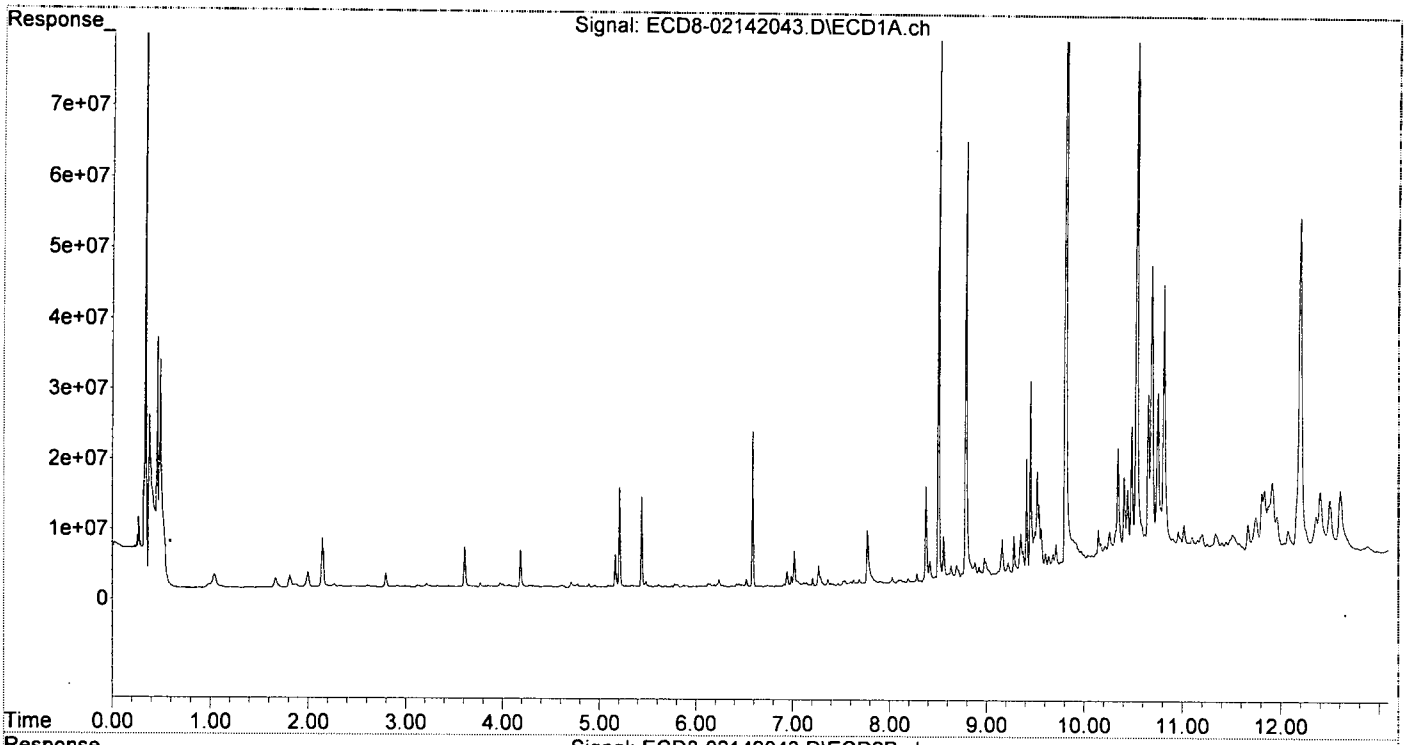
response 7196782

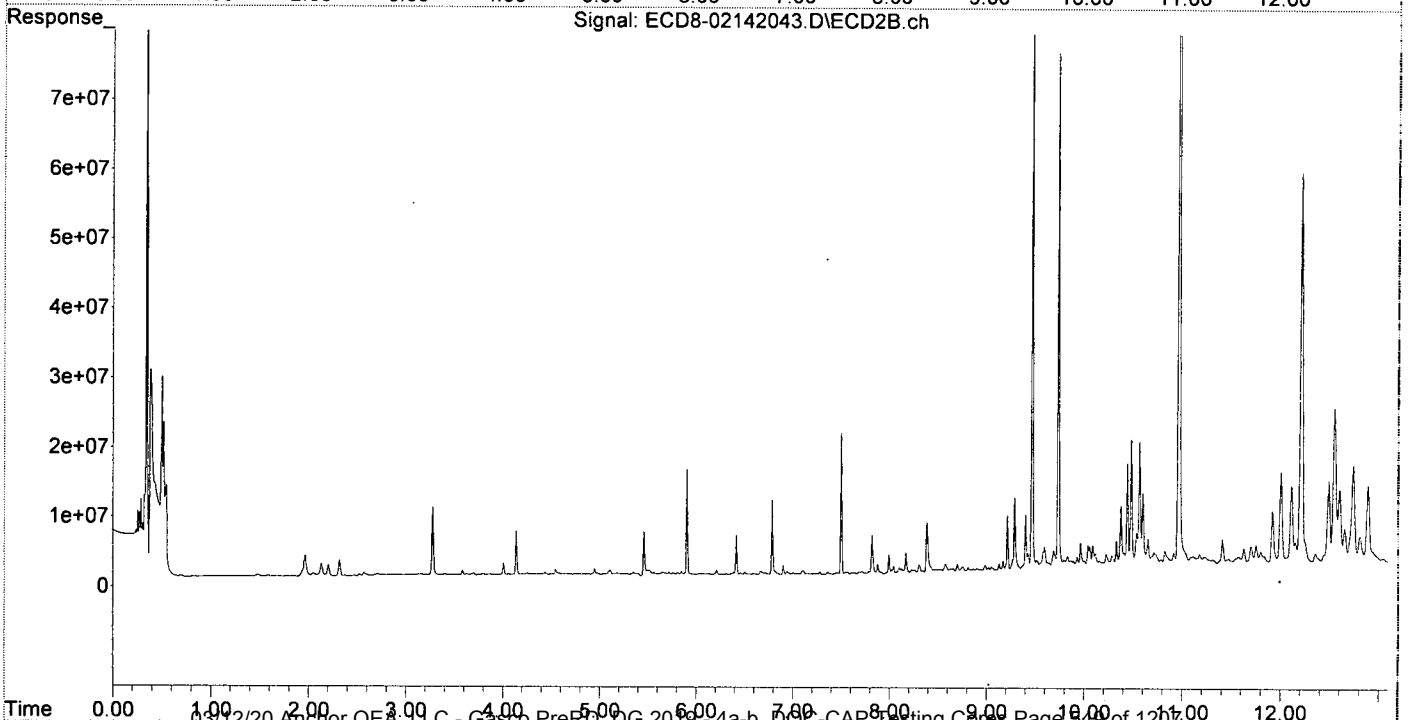
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2020 23:33
Operator : MJB
Sample : A0A1011-04RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.207	5.904	99617810	110.5E6	28.494	32.032	
22)	S DCBP (S)	9.409	10.442	136.6E6	123.0E6	51.885	56.991	
	Target Compounds							
2)	a-BHC	5.747	6.503	568686	1011984	0.120	0.313	#
3)	g-BHC	6.052	6.810	245871	823362	0.059	0.253	#
4)	b-BHC	6.120	6.901	852351	437134	0.489	0.252	#
5)	Heptachlor	6.445	7.232f	358840	142188	0.087	0.034	#
6)	d-BHC	6.276	7.156	184898	304363	0.160	0.184	
7)	Aldrin	6.711f	7.474	419395	319560	0.104	0.097	
8)	Heptachlo...	7.144	7.900	507474	251545	0.137	0.070	#
9)	trans-Chl...	7.239	8.039	81750	545798	0.022	0.147	#
10)	cis-Chlor...	7.374f	8.169	659824	1020643	0.180	0.290	#
11)	Endosulfa...	7.425	8.202	414294	417373	0.119	0.126	
12)	4,4'-DDE	7.395	8.237f	502239	952995	0.151	0.394	#
13)	Dieldrin	7.591	8.384	687916	11947524	0.180	3.429	#
14)	Endrin	7.768	8.628	11815953	602009	3.620	0.202	#
15)	4,4'-DDD	0.000	8.663	0	361628	N.D.	0.198	#
16)	Endosulfa...	7.949f	8.747f	219201	786720	0.073	0.268	#
17)	4,4'-DDT	8.026	8.901	755619	394938	0.281	0.136m	#
18)	Endrin Al...	8.223	9.020	375780	466214	0.143	0.176	
19)	Endosulfa...	8.503	9.214	19579031	3196228	6.841	1.188	#
20)	Methoxychlor	8.374	9.373	4820181	884693	3.995	0.461	#
21)	Endrin Ke...	8.693	9.597	6361976	1912555	1.841	0.455	#
23)	Hexachlor...	2.988	3.580f	290164	9108435	0.074	1.881	#
24)	Hexachlor...	5.588	6.384	635272	1253140	0.189	0.382	#
25)	Oxychlordane	7.043f	7.823	1336533	4134044	0.256	1.293	#
26)	2,4'-DDE	7.144	8.024	507474	787534	0.219	0.346m	#
27)	trans-Non...	0.000	8.101	0	1295718	N.D.	0.359	#
28)	2,4'-DDD	7.521	8.397	822495	4290208	0.425	2.241m	#
29)	2,4'-DDT	7.689f	8.628	680606	602009	0.284	0.234	
30)	cis-Nonac...	7.768f	8.663	11815953	361628	2.904	0.091	#
31)	Mirex	8.476	9.597	495798	1912555	8198.924	0.672	#
32)	Chlordane...	7.239	8.039	81750	545798	0.204	1.256	#
33)	Chlordane...	7.374f	8.169	659824	1020643	1.357	2.807	#
34)	Chlordane...	7.874	8.807	509951	772518	3.917	6.505	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.287f	8.384	1167859	11947524	71.344	405.427	#
37)	Toxaphene...	7.591	8.747	687916	786720	21.897	19.576	
38)	Toxaphene...	7.893f	8.747	628360	786720	5.767	12.160	#
39)	Toxaphene...	8.191f	8.807f	1095449	772518	9.945	3.848	#
40)	Toxaphene...	8.374	9.020	4820181	466214	88.929	8.132	#
41)	Toxaphene...	8.476f	9.373	495798	884693	6.519	13.394	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

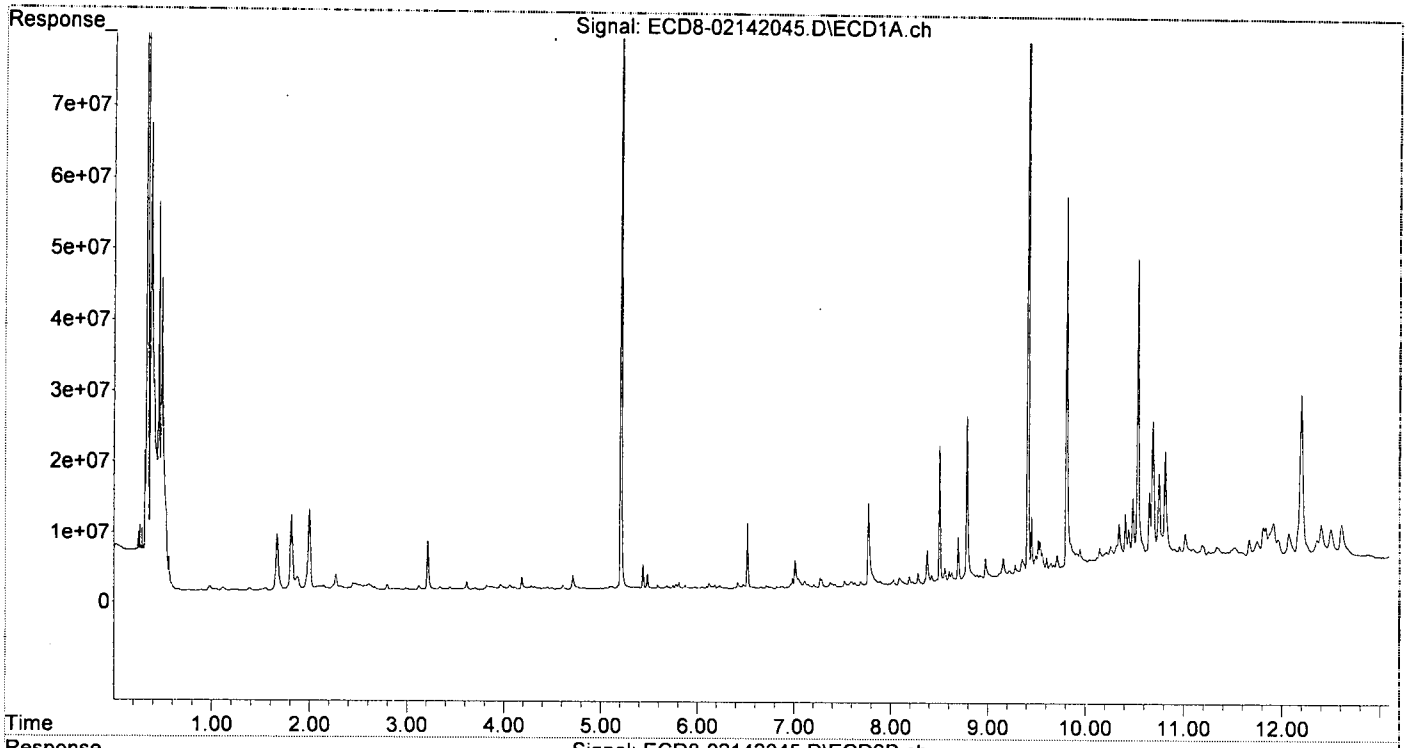
2-01

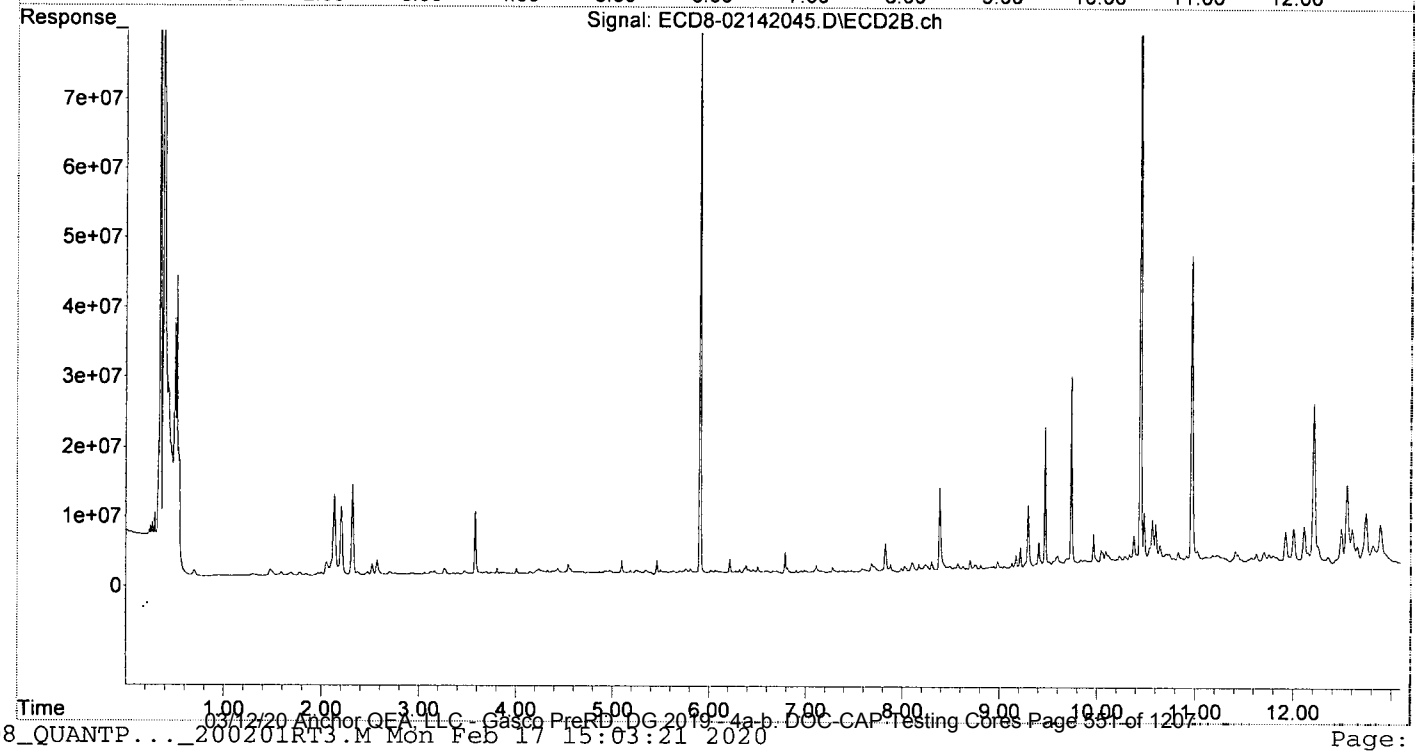
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

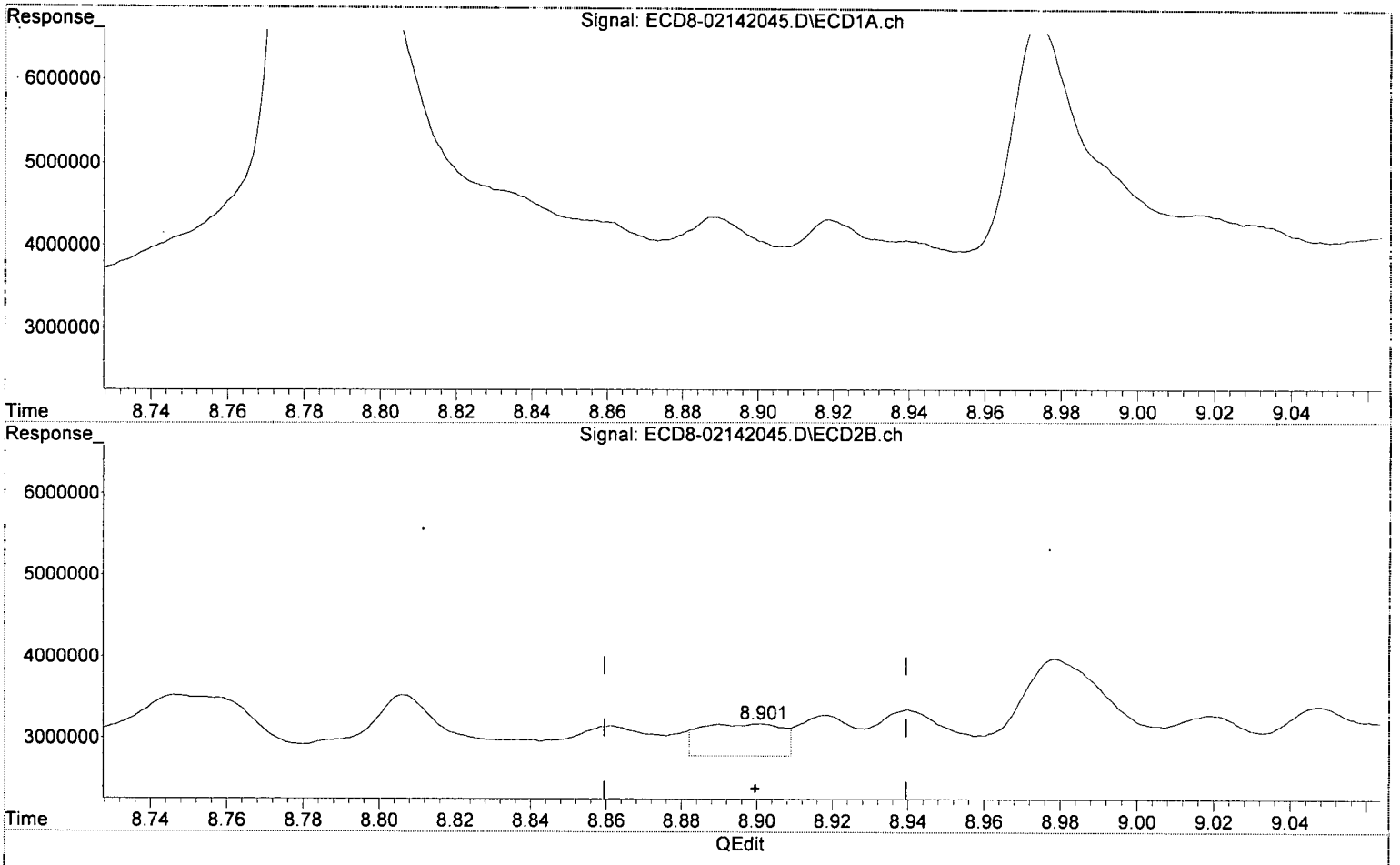




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.026min 0.281 ng/mL

response 755619

MJB 2/17/20

(17) 4,4'-DDT #2

8.901min 0.136 ng/mL m

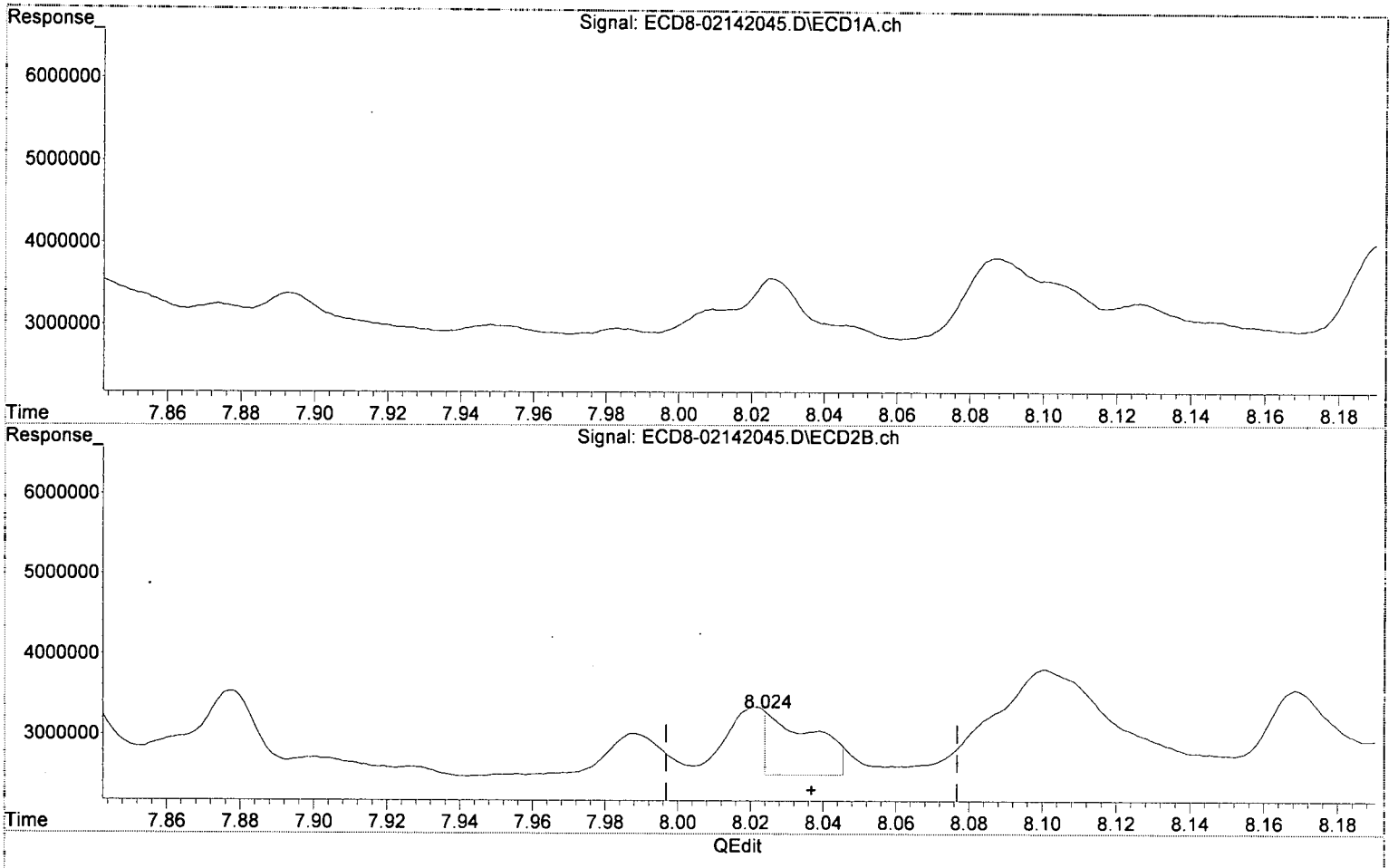
response 394938

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.144min 0.219 ng/mL

response 507474

MJB 2/17/20

(26) 2,4'-DDE #2

8.024min 0.346 ng/mL (m)

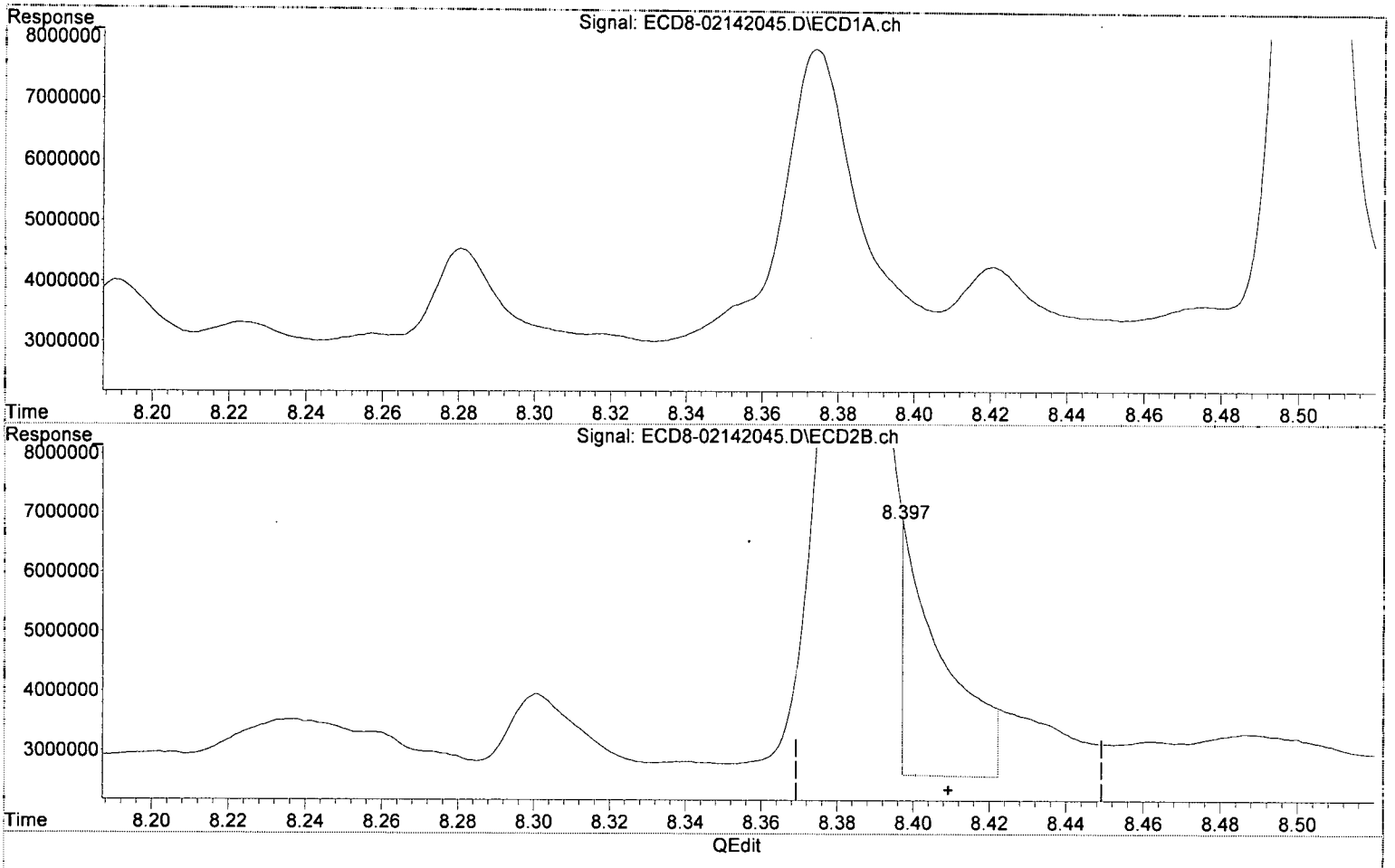
response 787534

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.521min 0.425 ng/mL

response 822495

MJB 2/17/20

(28) 2,4'-DDD #2

8.397min 2.241 ng/mL

response 4290208

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2.17.20.

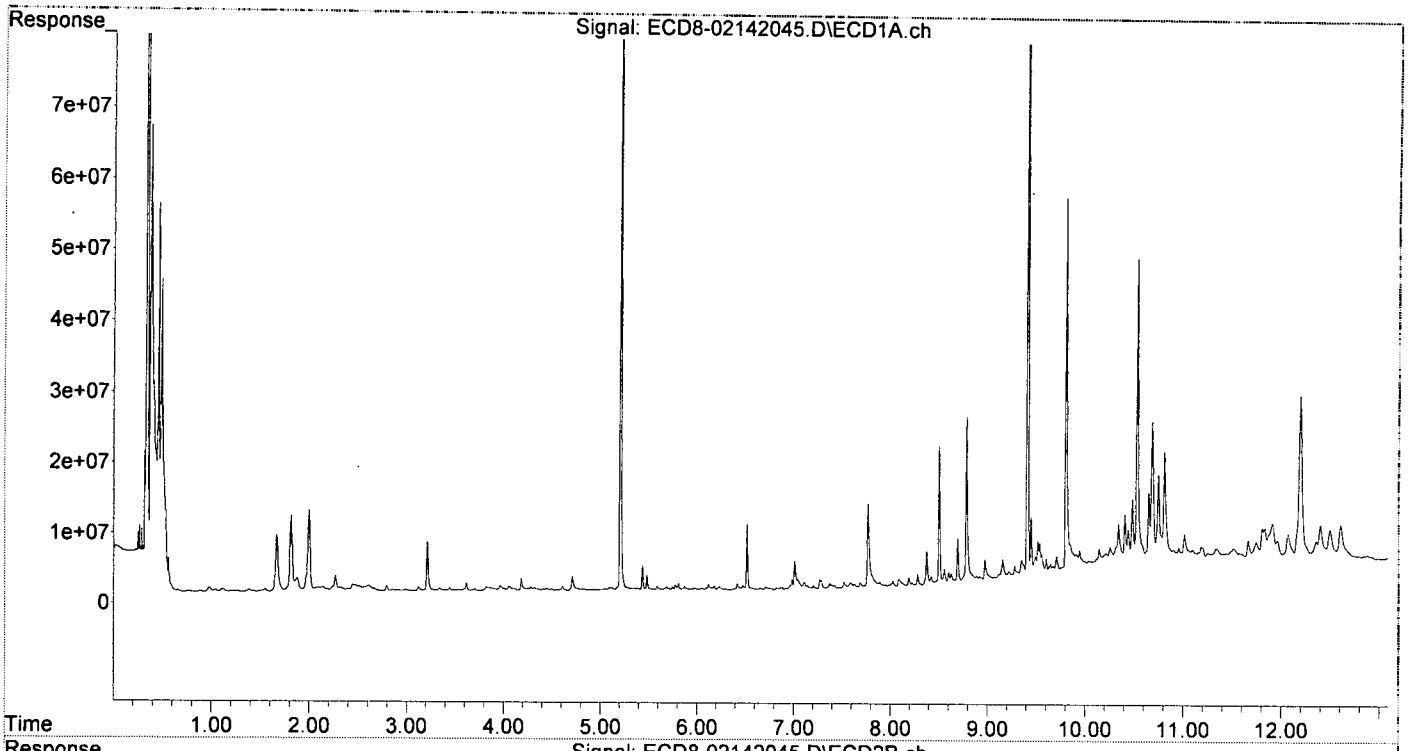
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.207	5.904	99617810	110.5E6	28.494	32.032	
22)	S	DCBP (S)	9.409	10.442	136.6E6	123.0E6	51.885	56.991	
		Target Compounds							
2)		a-BHC	5.747	6.503	568686	1011984	0.120	0.313	#
3)		g-BHC	6.052	6.810	245871	823362	0.059	0.253	#
4)		b-BHC	6.120	6.901	852351	437134	0.489	0.252	#
5)		Heptachlor	6.445	7.232f	358840	142188	0.087	0.034	#
6)		d-BHC	6.276	7.156	184898	304363	0.160	0.184	
7)		Aldrin	6.711f	7.474	419385	319560	0.104	0.097	
8)		Heptachlo...	7.144	7.900	507474	251545	0.137	0.070	#
9)		trans-Chl...	7.239	8.039	81750	545798	0.022	0.147	#
10)		cis-Chlor...	7.374f	8.169	659824	1020643	0.180	0.290	#
11)		Endosulfa...	7.425	8.202	414294	417373	0.119	0.126	
12)		4,4'-DDE	7.395	8.237f	502239	952995	0.151	0.394	#
13)		Dieldrin	7.591	8.384	687916	11947524	0.180	3.429	#
14)		Endrin	7.768	8.628	11815953	602009	3.620	0.202	#
15)		4,4'-DDD	0.000	8.663	0	361628	N.D.	0.198	#
16)		Endosulfa...	7.949f	8.747f	219201	786720	0.073	0.268	#
17)		4,4'-DDT	8.026	8.901	755619	397040	0.281	0.136	#
18)		Endrin Al...	8.223	9.020	375780	466214	0.143	0.176	
19)		Endosulfa...	8.503	9.214	19579031	3196228	6.841	1.188	#
20)		Methoxychlor	8.374	9.373	4820181	884693	3.995	0.461	#
21)		Endrin Ke...	8.693	9.597	6361976	1912555	1.841	0.455	#
23)		Hexachlor...	2.988	3.580f	290164	9108435	0.074	1.881	#
24)		Hexachlor...	5.588	6.384	635272	1253140	0.189	0.382	#
25)		Oxychlordane	7.043f	7.823	1336533	4134044	0.256	1.293	#
26)		2,4'-DDE	7.144	8.039	507474	545798	0.219	0.240	
27)		trans-Non...	0.000	8.101	0	1295718	N.D.	0.359	#
28)		2,4'-DDD	7.521	8.384f	822495	11947524	0.425	6.241	#
29)		2,4'-DDT	7.689f	8.628	680606	602009	0.284	0.234	
30)		cis-Nonac...	7.768f	8.663	11815953	361628	2.904	0.091	#
31)		Mirex	8.476	9.597	495798	1912555	8198.924	0.672	#
32)		Chlordane...	7.239	8.039	81750	545798	0.204	1.256	#
33)		Chlordane...	7.374f	8.169	659824	1020643	1.357	2.807	#
34)		Chlordane...	7.874	8.807	509951	772518	3.917	6.505	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.287f	8.384	1167859	11947524	71.344	405.427	#
37)		Toxaphene...	7.591	8.747	687916	786720	21.897	19.576	
38)		Toxaphene...	7.893f	8.747	628360	786720	5.767	12.160	#
39)		Toxaphene...	8.191f	8.807f	1095449	772518	9.945	3.848	#
40)		Toxaphene...	8.374	9.020	4820181	466214	88.929	8.132	#
41)		Toxaphene...	8.476f	9.373	495798	884693	6.519	13.394	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

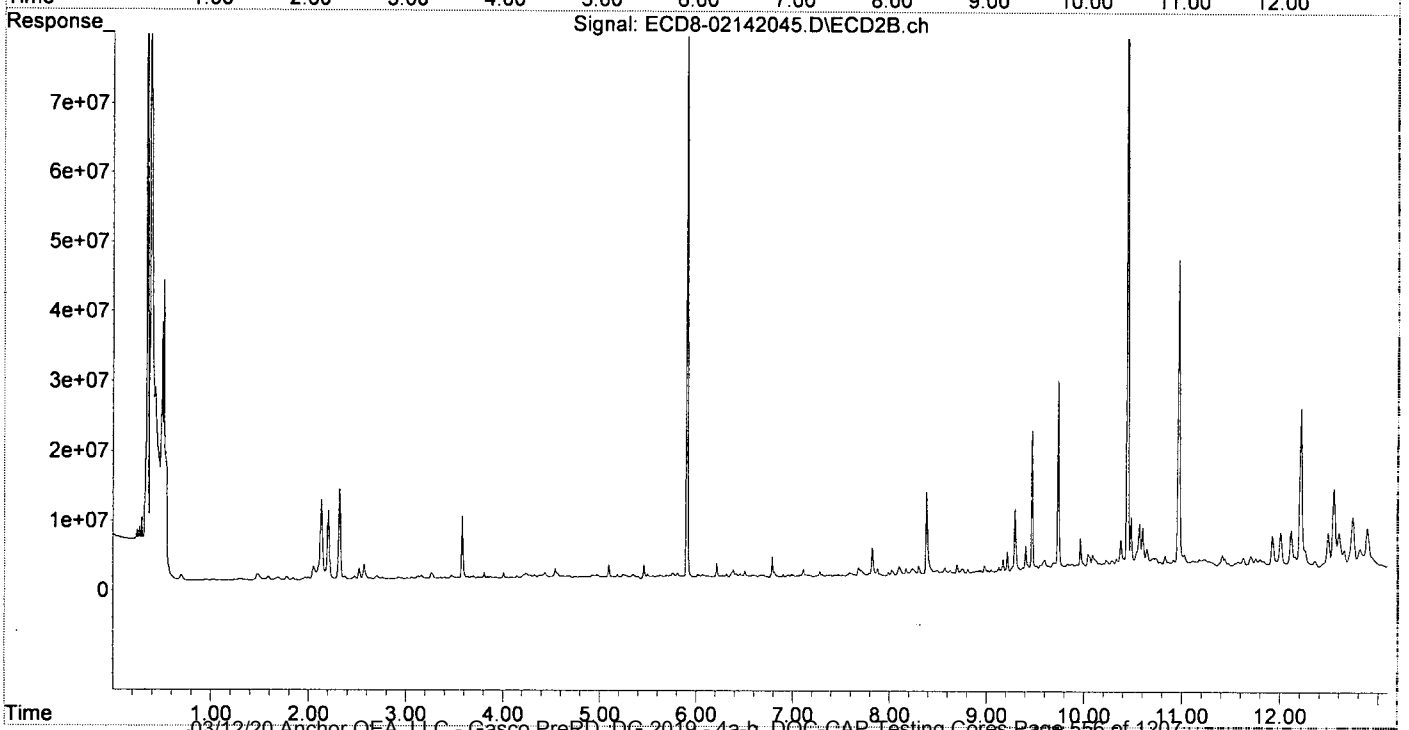
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:11
Operator : MJB
Sample : A0A1011-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:48
Operator : MJB
Sample : 0B14020-CCVD
Misc : A19K134, AB 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

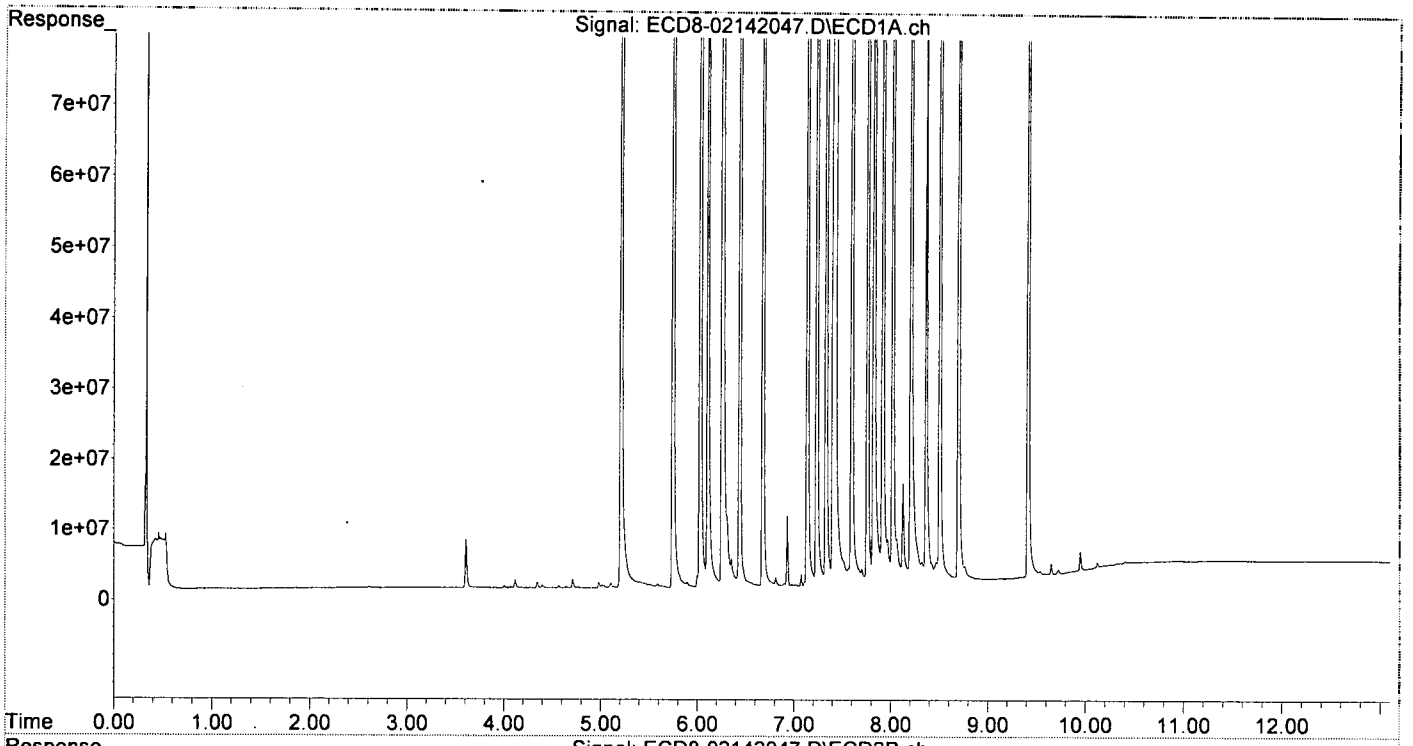
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.208	5.905	314.3E6	353.9E6	89.898	102.595	
22)	S	DCBP (S)	9.412	10.442	257.3E6	243.8E6	96.112	107.841	
		Target Compounds							
2)		a-BHC	5.745	6.507	470.1E6	528.2E6	99.491	103.218	
3)		g-BHC	6.028	6.825	411.7E6	448.7E6	98.876	99.447	
4)		b-BHC	6.105	6.889	148.5E6	181.2E6	85.249	104.394	
5)		Heptachlor	6.437	7.196	401.6E6	438.5E6	97.714	104.139	
6)		d-BHC	6.254	7.144	309.3E6	395.8E6	81.457	94.387	
7)		Aldrin	6.676	7.461	408.4E6	425.2E6	101.078	99.073	
8)		Heptachlo...	7.137	7.899	350.7E6	389.0E6	94.964	108.377	
9)		trans-Chl...	7.233	8.038	359.3E6	397.0E6	95.550	106.771	
10)		cis-Chlor...	7.330	8.146	366.9E6	373.2E6	99.918	105.933	
11)		Endosulfa...	7.424	8.196	349.8E6	349.6E6	100.847	105.771	
12)		4,4'-DDE	7.402	8.254	319.0E6	357.1E6	96.070	96.144	
13)		Dieldrin	7.596	8.396	379.2E6	413.8E6	99.444	102.862	
14)		Endrin	7.759	8.623	317.2E6	320.7E6	97.200	96.503	
15)		4,4'-DDD	7.822	8.671	242.8E6	298.1E6	95.388	100.501	
16)		Endosulfa...	7.916	8.771	273.0E6	313.0E6	91.271	100.355	
17)		4,4'-DDT	8.018	8.895	251.6E6	281.5E6	93.605	92.716	
18)		Endrin Al...	8.206	9.007	227.9E6	269.7E6	86.560	101.998	
19)		Endosulfa...	8.505	9.198	259.4E6	291.3E6	90.639	98.712	
20)		Methoxychlor	8.364	9.376	98276828	127.6E6	81.447	96.361	
21)		Endrin Ke...	8.698	9.598	329.4E6	323.3E6	95.293	97.114	
23)		Hexachlor...	2.991	0.000	56458	0	0.014	N.D.	#
24)		Hexachlor...	5.589	0.000	558656	0	0.166	N.D.	#
25)		Oxychlordane	7.074	7.807f	1679779	235711	0.367	0.074	#
26)		2,4'-DDE	7.137f	8.038	350.7E6	397.0E6	151.674	174.666	
27)		trans-Non...	7.330	8.100	366.9E6	1327711	100.083	0.368	#
28)		2,4'-DDD	7.565f	8.396	2255329	413.8E6	1.164	216.183	#
29)		2,4'-DDT	7.702	8.623	2134227	320.7E6	0.892	122.166	#
30)		cis-Nonac...	7.822f	8.671	242.8E6	298.1E6	59.655	74.793	#
31)		Mirex	8.472	9.598	2696135	323.3E6	0.907	144.754	#
32)		Chlordane...	7.233	8.038	359.3E6	397.0E6	897.222	913.785	
33)		Chlordane...	7.330	8.146	366.9E6	373.2E6	754.478	1026.441	#
34)		Chlordane...	7.916f	0.000	273.0E6	0	2097.145	N.D.	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.330	8.396	366.9E6	413.8E6	22415.192	14043.091	#
37)		Toxaphene...	7.596	0.000	379.2E6	0	12071.132	N.D.	#
38)		Toxaphene...	7.916	8.771	273.0E6	313.0E6	4044.667	4837.305	
39)		Toxaphene...	8.125f	8.860f	14327210	2269202	213.469	19.386	#
40)		Toxaphene...	8.364f	9.007	98276828	269.7E6	1813.147	4703.608	#
41)		Toxaphene...	8.472f	9.376	2696135	127.6E6	35.450	1932.430	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

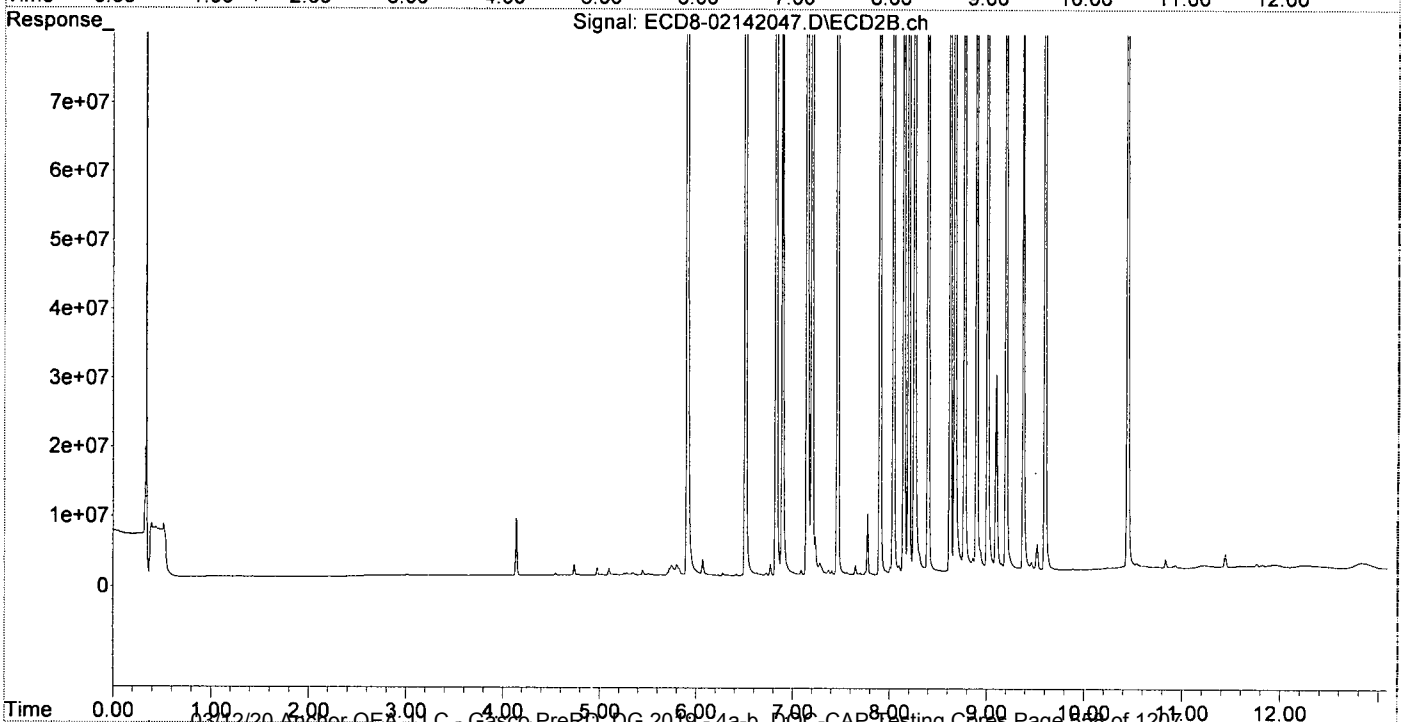
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 00:48
Operator : MJB
Sample : 0B14020-CCVD
Misc : A19K134, AB 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 1:05
Operator : MJB
Sample : 0B14020-CCVE
Misc : A19J409, 9-42 100 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJR 2/17/20

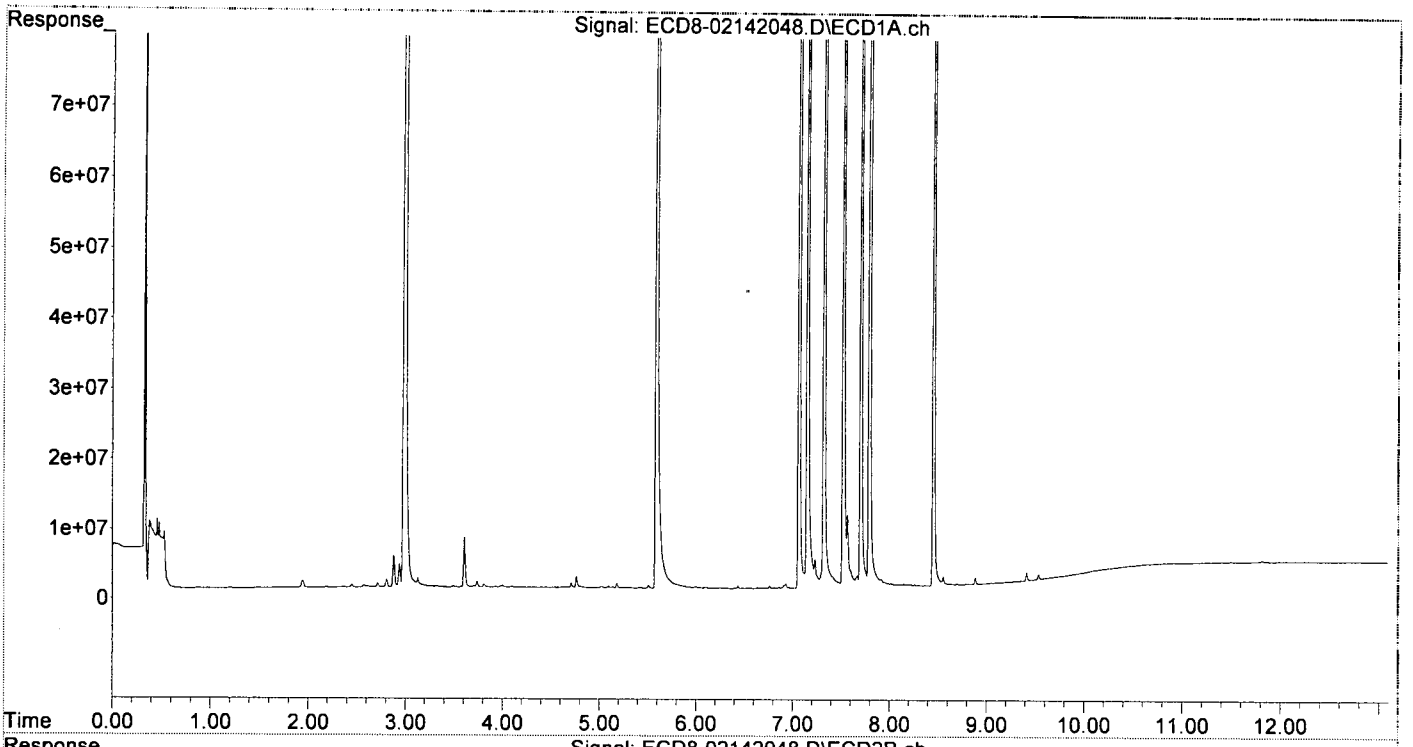
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.183f	5.913	683987	159932	0.196	0.046	#
22)	S	DCBP (S)	9.414	10.443	1193914	1311030	0.133	0.141	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	5.999f	6.829	301824	56592	0.072	0.057	
4)		b-BHC	6.104	6.893	209427	120401	0.120	0.069	#
5)		Heptachlor	6.435	7.195	395438	359958	0.096	0.085	
6)		d-BHC	6.260	7.149	86141	95324	0.131	0.125	
7)		Aldrin	6.674	7.457	62913	56336	0.016	0.027	#
8)		Heptachlo...	7.151	7.896	208.3E6	1056731	56.418	0.294	#
9)		trans-Chl...	7.232	8.033	4093722	241.2E6	1.089	64.862	#
10)		cis-Chlor...	7.323	8.189f	352.5E6	640219	95.985	0.182	#
11)		Endosulfa...	0.000	8.195	0	646805	N.D.	0.196	#
12)		4,4'-DDE	0.000	8.236f	0	405568	N.D.	0.218	#
13)		Dieldrin	7.568f	8.406	10376504	207.9E6	2.721	55.018	#
14)		Endrin	7.792f	8.629	404.5E6	248.6E6	123.934	76.929	#
15)		4,4'-DDD	7.792f	8.667	404.5E6	441.7E6	158.930	137.934	
16)		Endosulfa...	7.918	8.750f	1019493	682602	0.341	0.228	#
17)		4,4'-DDT	8.020	8.896	427560	229820	0.159	0.068	#
18)		Endrin Al...	8.215	9.009	276618	192488	0.105	0.073	#
19)		Endosulfa...	0.000	9.201	0	110708	N.D.	BelowCal	
20)		Methoxychlor	8.371	9.381	22447	25058	0.019	BelowCal	#
21)		Endrin Ke...	8.700	9.588	123148	248.2E6	0.036	76.938	#
23)		Hexachlor...	2.988	3.602	364.4E6	492.2E6	93.481	101.657	
24)		Hexachlor...	5.588	6.369	311.2E6	348.4E6	92.579	102.496	
25)		Oxychlordane	7.065	7.827	315.5E6	343.1E6	101.056	107.268	
26)		2,4'-DDE	7.151	8.033	208.3E6	241.2E6	90.109	106.106	
27)		trans-Non...	7.323	8.101	352.5E6	383.0E6	96.144	106.122	
28)		2,4'-DDD	7.522	8.406	172.5E6	207.9E6	89.079	108.594	
29)		2,4'-DDT	7.703	8.629	223.0E6	248.6E6	93.191	98.321	
30)		cis-Nonac...	7.792	8.667	404.5E6	441.7E6	99.393	110.829	
31)		Mirex	8.454	9.588	247.1E6	248.2E6	103.119	112.862	
32)		Chlordane...	7.232	8.033	4093722	241.2E6	10.222	555.108	#
33)		Chlordane...	7.323	8.189f	352.5E6	640219	724.783	1.761	#
34)		Chlordane...	7.918f	8.829	1019493	433837	7.830	3.653	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.323	8.367	352.5E6	111745	21532.969	3.792	#
37)		Toxaphene...	0.000	8.750f	0	682602	N.D.	16.985	#
38)		Toxaphene...	7.918	8.750	1019493	682602	11.324	10.551	
39)		Toxaphene...	8.152	8.829	280056	433837	BelowCal	0.327	
40)		Toxaphene...	8.384	9.009	16051	192488	0.296	3.358	#
41)		Toxaphene...	8.454	9.381	247.1E6	25058	3249.132	0.379	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

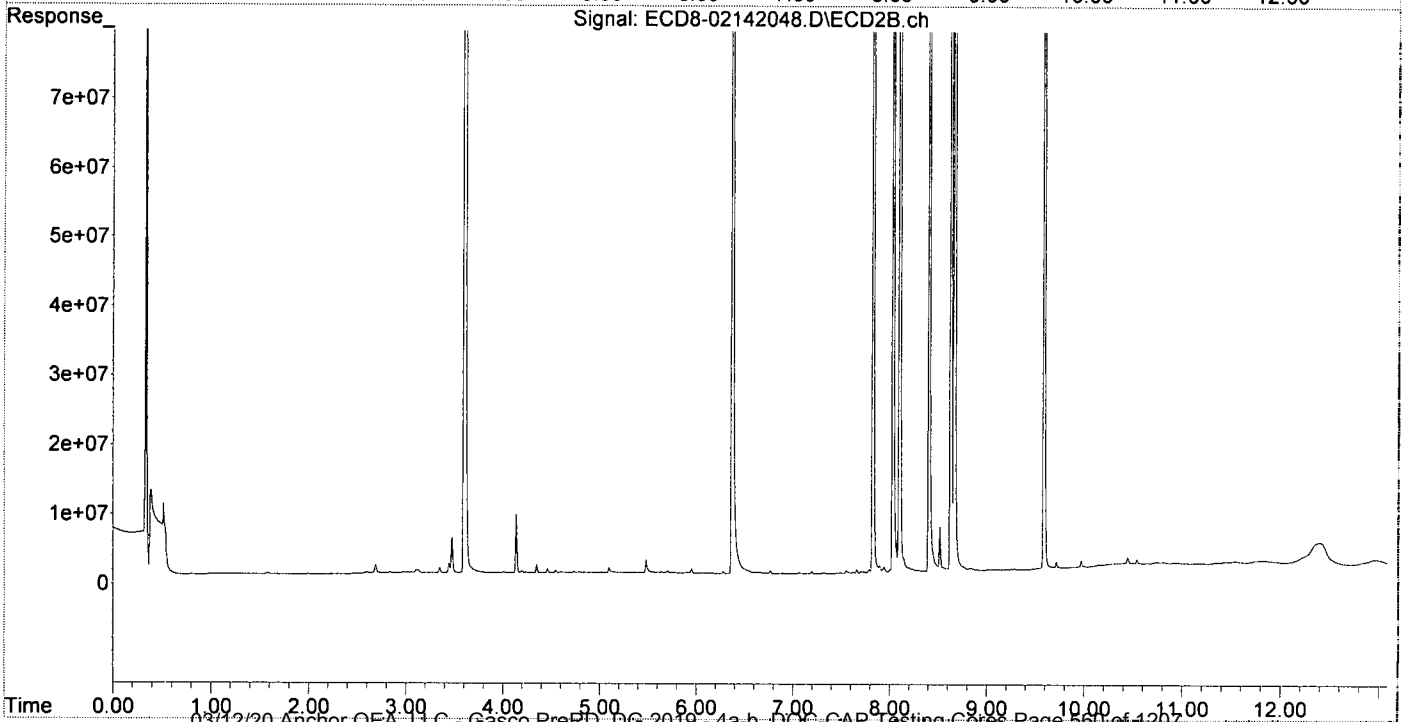
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 1:05
Operator : MJB
Sample : 0B14020-CCVE
Misc : A19J409, 9-42 100 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 1:22
Operator : MJB
Sample : 0B14020-CCB3
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/17/20

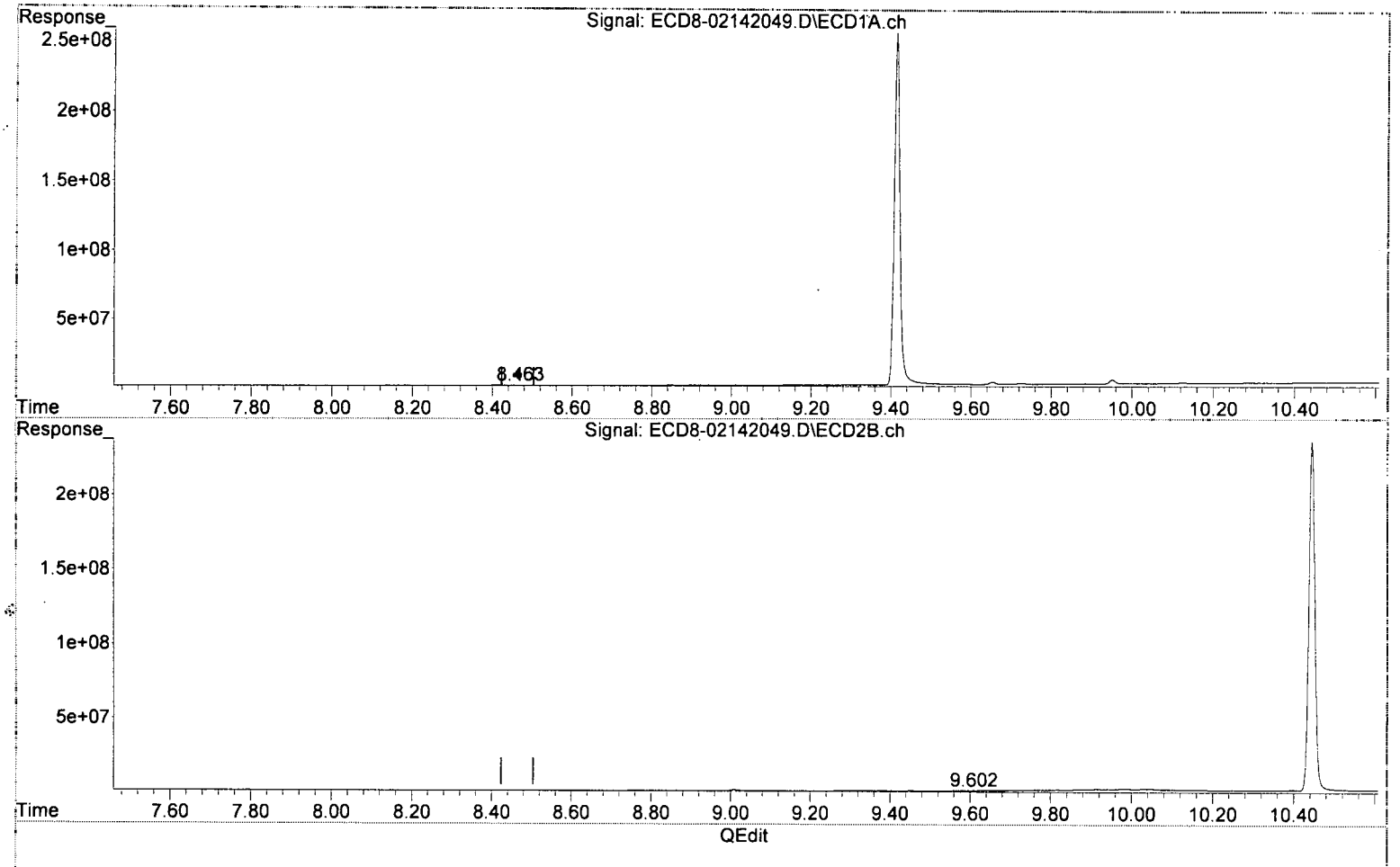
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.208	5.904	303.7E6	343.9E6	86.877	99.696	
22)	S	DCBP (S)	9.414	10.444	255.0E6	233.2E6	95.277	103.574	
		Target Compounds							
2)		a-BHC	5.760	6.473f	45920	38211	0.010	0.085	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.109	6.892	108270	14463	0.062	0.008	#
5)		Heptachlor	0.000	7.197	0	27985	N.D.	0.007	#
6)		d-BHC	0.000	7.150	0	23649	N.D.	0.104	#
7)		Aldrin	6.683	7.492f	17028	104388	0.004	0.040	#
8)		Heptachlo...	7.142	7.901	11796	33492	0.003	0.009	#
9)		trans-Chl...	7.236	8.046	85227	72282	0.023	0.019	
10)		cis-Chlor...	7.333	8.152	58467	29000	0.016	0.008	#
11)		Endosulfa...	7.429	8.204	18690	29800	0.005	0.009	#
12)		4,4'-DDE	7.410	8.270	18045	22959	0.005	0.096	#
13)		Dieldrin	7.608	8.385	13818	7941	0.004	0.034	#
14)		Endrin	7.768	8.629	7377	37432	0.002	0.005	#
15)		4,4'-DDD	7.839	8.647f	16187	30350	0.006	0.056	#
16)		Endosulfa...	7.923	8.757	153430	231584	0.051	0.057	
17)		4,4'-DDT	8.029	8.902	13467	28731	0.005	BelowCal	#
18)		Endrin Al...	8.211	9.008	100908	610897	0.038	0.231	#
19)		Endosulfa...	8.511	9.204	63269	104037	0.022	BelowCal	#
20)		Methoxychlor	8.371	9.376	40735	116770	0.034	BelowCal	#
21)		Endrin Ke...	8.704	9.603	56043	318437	0.016	BelowCal	#
23)		Hexachlor...	2.993	3.623	72630	91837	0.019	0.019	
24)		Hexachlor...	5.590	6.364	438928	49547	0.131	BelowCal	#
25)		Oxychlordane	7.079	7.828	145196	44827	BelowCal	0.014	
26)		2,4'-DDE	7.163	8.046	13477	72282	0.006	0.032	#
27)		trans-Non...	7.333	8.105	58467	56159	0.016	0.016	
28)		2,4'-DDD	7.497f	8.431f	9800	35501	0.005	0.019	#
29)		2,4'-DDT	7.712	8.629	20278	37432	0.008	BelowCal	#
30)		cis-Nonac...	7.794	8.647f	16391	30350	0.004	0.008	#
31)		Mirex	8.464	9.603	134799	318437	~~8199.073~~ Q-V01	BelowCal	#
32)		Chlordane...	7.236	8.046	85227	72282	0.213	0.166	
33)		Chlordane...	7.333	8.152	58467	29000	0.120	0.080	#
34)		Chlordane...	7.892	8.808	13152	69938	0.101	0.589	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.333	8.385	58467	7941	3.572	0.269	#
37)		Toxaphene...	7.608	8.705f	13818	59730	0.440 Q-D01	1.486	#
38)		Toxaphene...	7.923	8.757	153430	231584	~~96751.757~~	3.580	#
39)		Toxaphene...	8.155	8.834	145882	242034	BelowCal	BelowCal	
40)		Toxaphene...	8.376	9.008	36440	610897	0.672	10.656	#
41)		Toxaphene...	8.451	9.376	149860	116770	1.970	1.768	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 1:22
Operator : MJB
Sample : 0B14020-CCB3
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.464min 8199.078 ng/mL Q-DEL

response 134799

MJB 2/17/20

(31) Mirex #2

9.603min -0.099 ng/mL

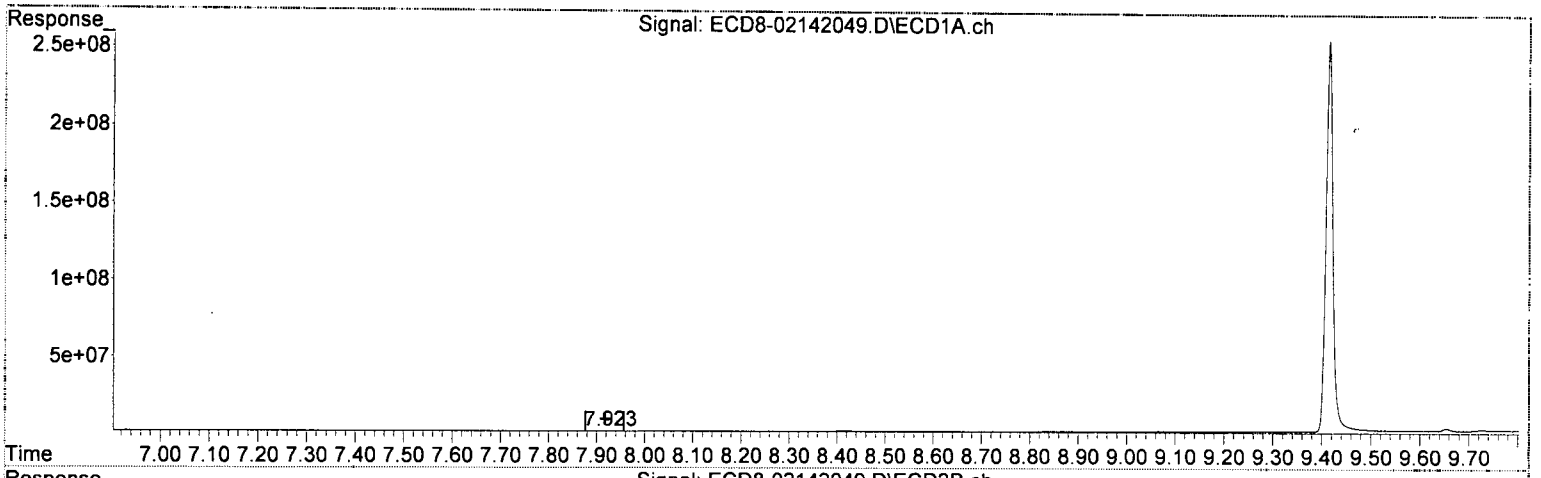
response 318437

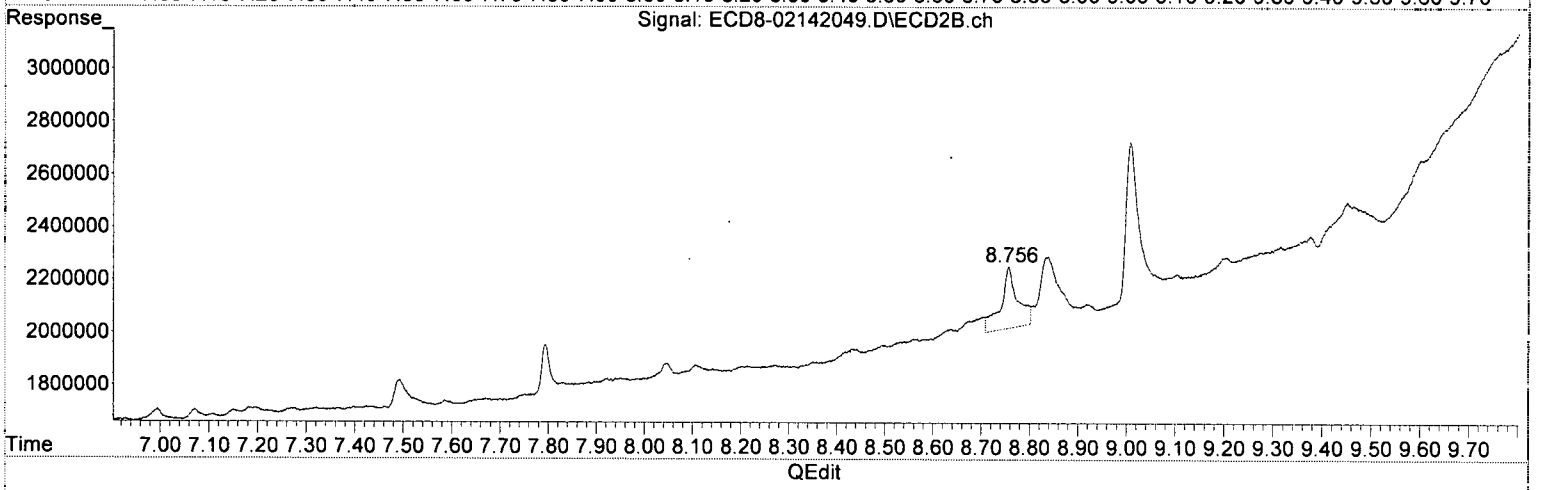
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 1:22
Operator : MJB
Sample : 0B14020-CCB3
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.923min 96751.757 ng/mL Q-pe1

response 153430

MJB 2/17/20

(38) Toxaphene (3) #2

8.757min 3.580 ng/mL

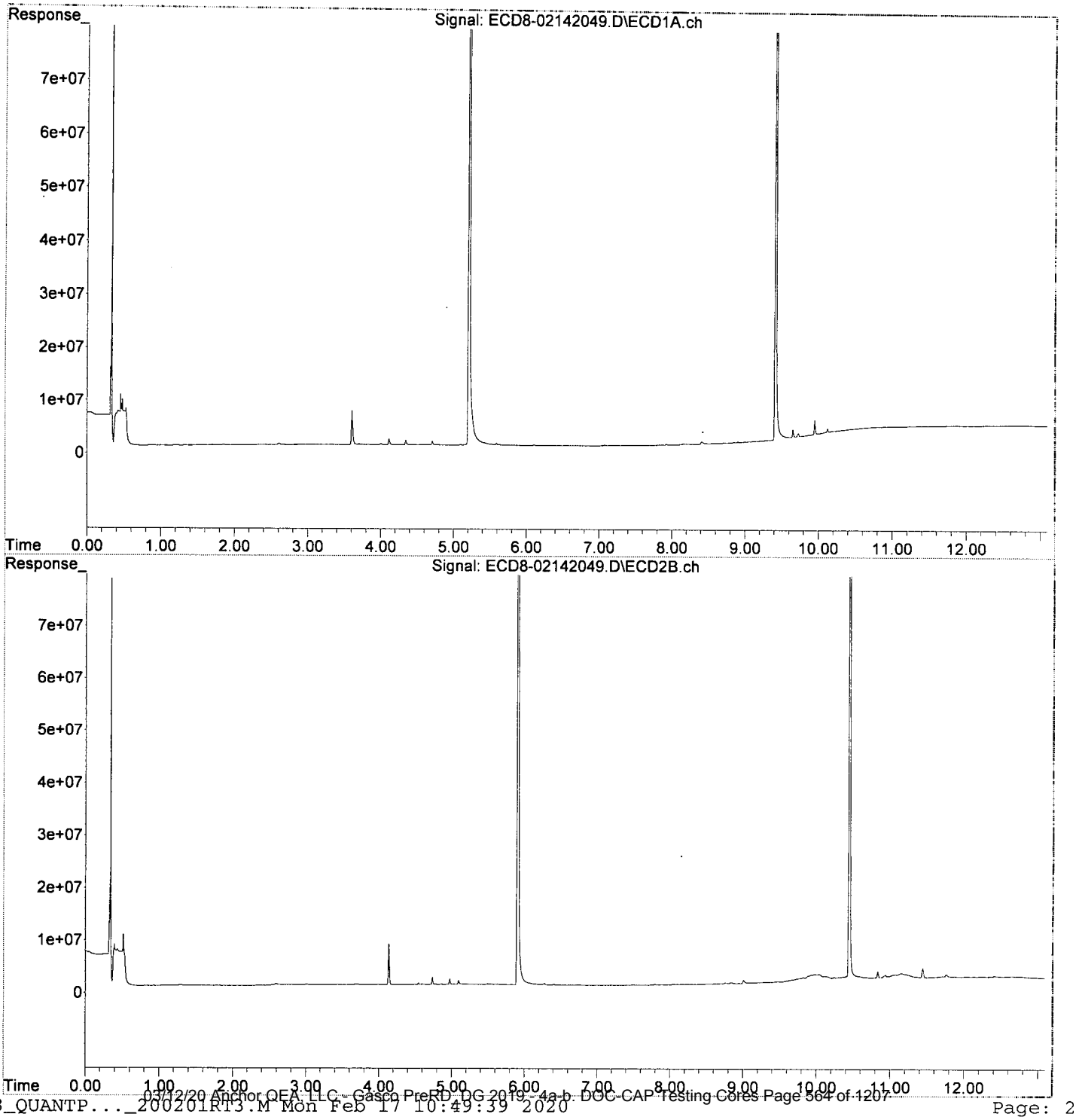
response 231584

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B14020\
Data File : ECD8-02142049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2020 1:22
Operator : MJB
Sample : 0B14020-CCB3
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 10:49:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT3.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Sequence 0B20033 (A0A1011-02RE1,03RE2)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B20033** Instrument: **DUALECD8**

Date: **02/20/20 10:49** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B20033-BKD1	Water	QC	QC				A20A019
2	0B20033-CCV1	Water	QC	QC				A19K133
3	0B20033-BKD2	Water	QC	QC				A20A019
4	0B20033-CCV2	Water	QC	QC				A19K133
5	0B20033-CCV3	Water	QC	QC				A19J408
6	0B20033-CCV4	Water	QC	QC				A19K310
7	0B20033-CCB1	Water	QC	QC				A20A395
8	A0B0063-01RE2	Water	608 Pesticides (TTO)		02/17/20	0020287		
9	A0A1011-03RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020105		
10	0B20033-IBL1	Water	QC	QC				
11	A0B0130-04RE2	Sediment	8081B Pesticides		02/18/20	0020382		
12	A0B0130-06RE2	Sediment	8081B Pesticides		02/18/20	0020382		
13	A0B0130-08RE2	Sediment	8081B Pesticides		02/18/20	0020382		
14	0B20033-IBL2	Water	QC	QC				
15	A0B0130-10RE2	Sediment	8081B Pesticides		02/18/20	0020382		
16	0B20033-CCV5	Water	QC	QC				A19K134
17	0B20033-CCV6	Water	QC	QC				A19J409
18	0B20033-CCV7	Water	QC	QC				A19K311
19	0B20033-CCB2	Water	QC	QC				A20A395
20	0020315-BLK1	Sediment	QC	QC		0020315		
21	0020315-BS1	Sediment	QC	QC		0020315		
22	0020315-BS2	Sediment	QC	QC		0020315		
23	A0B0203-01RE1	Sediment	8081B RSET Sediment Marine (2016)		02/20/20	0020315		
24	0020315-DUP1	Sediment	QC	QC		0020315		
25	A0B0203-02RE1	Sediment	8081B RSET Sediment Marine (2016)		02/20/20	0020315		
26	A0B0203-03RE1	Sediment	8081B RSET Sediment Marine (2016)		02/20/20	0020315		
27	A0B0203-04RE1	Sediment	8081B RSET Sediment Marine (2016)		02/20/20	0020315		
28	A0B0203-05RE1	Sediment	8081B RSET Sediment Marine (2016)		02/20/20	0020315		
29	0B20033-CCV8	Water	QC	QC				A19K133
30	0B20033-CCV9	Water	QC	QC				A19J408
31	0B20033-CCB3	Water	QC	QC				A20A395
32	A0B0203-06RE1	Sediment	8081B RSET Sediment Marine (2016)		02/20/20	0020315		
33	0020315-MS1	Sediment	QC	QC		0020315		
34	0020315-MS2	Sediment	QC	QC		0020315		
35	A0A0991-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
36	0B20033-IBL3	Water	QC	QC				
37	0020205-DUP1	Sediment	QC	QC		0020205		
38	0B20033-IBL4	Water	QC	QC				
39	A0A1011-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
40	0B20033-IBL5	Water	QC	QC				
41	0020205-MS1 MB 2/12/20	Sediment	QC	QC		0020205		
42	0B20033-IBL6	Water	QC	QC				
43	0020205-MSD1	Sediment	QC	QC		0020205		
44	0B20033-IBL7	Water	QC	QC				
45	0B20033-CCVA	Water	QC	QC				A19K134
46	0B20033-CCVB	Water	QC	QC				A19J409
47	0B20033-CCB4	Water	QC	QC				A20A395

Sequence:	0B20033	Instrument:	DUALECD8
Date:	02/20/20 10:49	Calibration:	A0B0404

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID

Data Entered By: MJB 2/24/20

Comments: Complete

Data Reviewed By: [illegible] 2/25/20

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B20033** Instrument: **DUALECD8**

Date: **02/20/20 10:49** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B20033-BKD1	Water	QC	QC				A20A019
2	0B20033-CCV1	Water	QC	QC				A19K133
3	0B20033-BKD2	Water	QC	QC				A20A019
4	0B20033-CCV2	Water	QC	QC				A19K133
5	0B20033-CCV3	Water	QC	QC				A19J408
6	0B20033-CCV4	Water	QC	QC				A19K310
7	0B20033-CCB1	Water	QC	QC				A20A395
8	A0B0063-01RE2	Water	608 Pesticides (TTO)		02/17/20	0020287		
9	A0A1011-03RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020105		
10	0B20033-IBL1	Water	QC	QC				
11	A0B0130-04RE2	Sediment	8081B Pesticides		02/18/20	0020382		
12	A0B0130-06RE2	Sediment	8081B Pesticides		02/18/20	0020382		
13	A0B0130-08RE2	Sediment	8081B Pesticides		02/18/20	0020382		
14	0B20033-IBL2	Water	QC	QC				
15	A0B0130-10RE2	Sediment	8081B Pesticides		02/18/20	0020382		
16	0B20033-CCV5	Water	QC	QC				A19K134
17	0B20033-CCV6	Water	QC	QC				A19J409
18	0B20033-CCV7	Water	QC	QC				A19K311
19	0B20033-CCB2	Water	QC	QC				A20A395

Comments: Partial

Data Entered By: MB 2/20/20

Data Reviewed By: MK 2/21/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 11:37
Operator : MJB
Sample : 0B20033-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 11:55:59 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT4.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	7.386	37780079	NoCal	ng/mL
2)	Endrin	7.736	1396807181	NoCal	ng/mL
3)	4,4'-DDD	7.804	133981806	NoCal	ng/mL
4)	4,4'-DDT	7.995	2007615435	NoCal	ng/mL
5)	Endrin Aldehyde	8.184	104354377	NoCal	ng/mL
6)	Endrin Ketone	8.674	97498696	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.237	45645268	NoCal	ng/mL
9)	Endrin [2C]	8.602	1252262321	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.651	135473179	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	8.988	79135864	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.876	2044421905	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.577	96580833	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

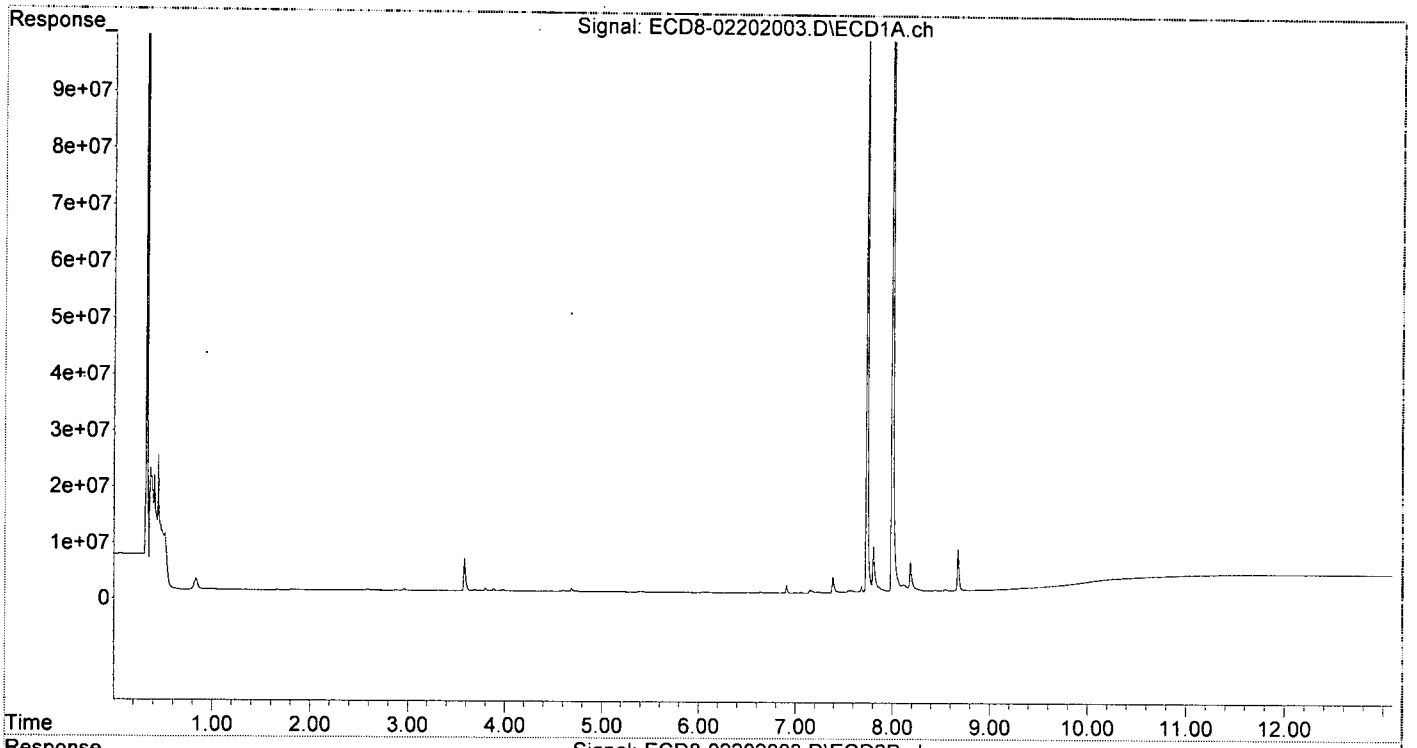
CCV failed. maintenance performed.

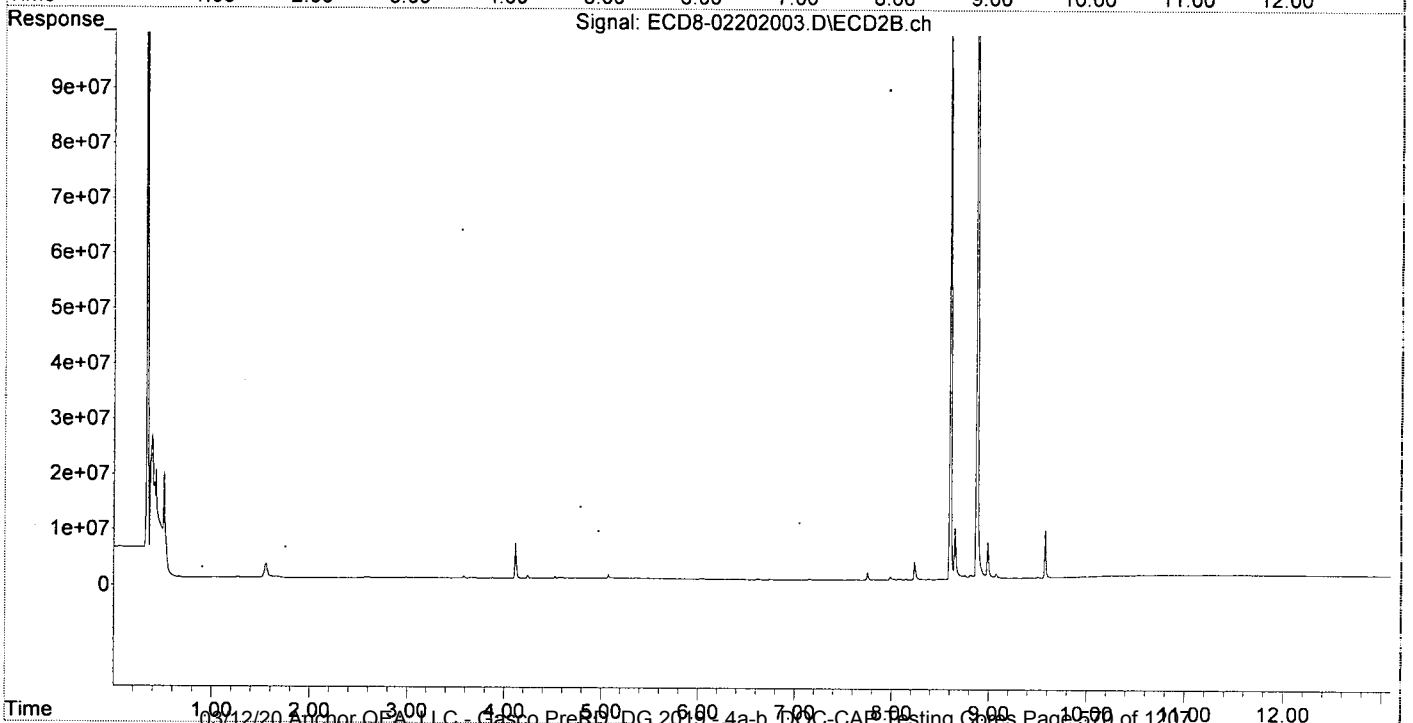
MJB 2/20/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 11:37
Operator : MJB
Sample : 0B20033-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 11:55:59 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT4.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 11:53
Operator : MJB
Sample : 0B20033-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 12:08:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Q-1-1

MJB 2/20/20

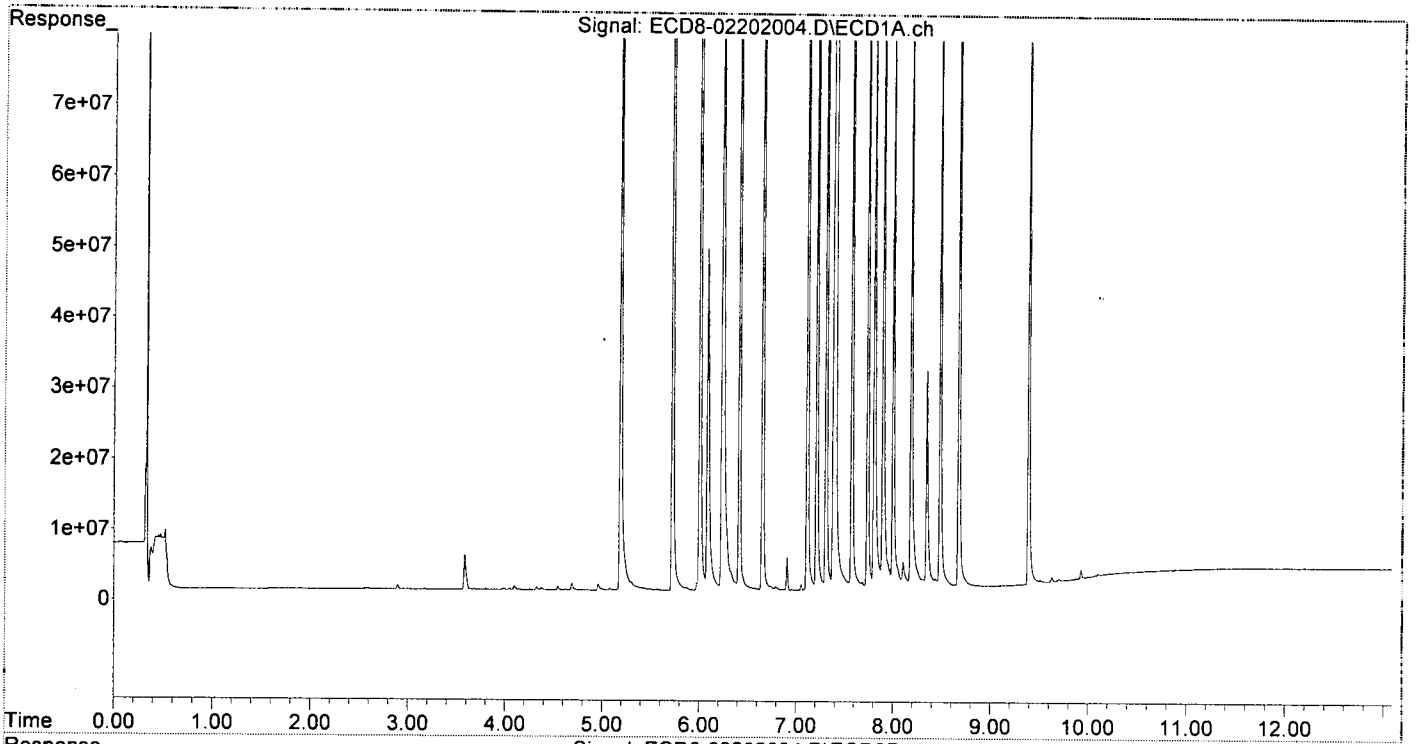
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.186	5.884	137.5E6	147.2E6	39.339	42.666	
22)	S	DCBP (S)	9.390	10.419	104.6E6	93593532	39.882	43.820	
		Target Compounds							
2)		a-BHC	5.722	6.486	209.4E6	221.3E6	44.312	47.568	
3)		g-BHC	6.004	6.804	171.2E6	191.9E6	41.127	45.904	
4)		b-BHC	6.085	6.871	48564980	61983436	27.885	35.704	#
5)		Heptachlor	6.414	7.175	172.6E6	163.8E6	42.004	38.908	
6)		d-BHC	6.237	7.126	91656067	138.3E6	25.821	36.761	#
7)		Aldrin	6.653	7.441	187.0E6	180.5E6	46.290	45.212	
8)		Heptachlo...	7.114	7.878	159.4E6	158.9E6	43.176	44.277	
9)		trans-Chl...	7.212	8.019	161.7E6	160.3E6	42.999	43.100	
10)		cis-Chlor...	7.308	8.125	159.5E6	158.4E6	43.429	44.964	
11)		Endosulfa...	7.401	8.176	167.4E6	140.4E6	48.260	42.470	
12)		4,4'-DDE	7.401	8.237	167.4E6	134.0E6	50.410	39.928	
13)		Dieldrin	7.573	8.375	170.2E6	168.9E6	44.626	45.311	
14)		Endrin	7.736	8.603	135.2E6	126.6E6	41.434	41.311	
15)		4,4'-DDD	7.803	8.652	85661355	97730531	33.659	38.024	
16)		Endosulfa...	7.894	8.751	104.3E6	118.8E6	34.881	41.842	
17)		4,4'-DDT	7.997	8.876	89062574	99712894	33.130	37.132	
18)		Endrin Al...	8.183	8.988	92419605	103.5E6	35.105	39.146	
19)		Endosulfa...	8.482	9.178	92780827	110.1E6	32.416	40.930	#
20)		Methoxychlor	8.345	9.357	30871728	41495109	25.585	35.599	#
21)		Endrin Ke...	8.674	9.577	132.9E6	135.8E6	38.451	44.361	
23)		Hexachlor...	2.964	3.576	31143	16789	0.008	0.003	#
24)		Hexachlor...	5.569	6.342	222392	28142	0.066	BelowCal	#
25)		Oxychlordane	7.053	7.814	854334	16947	0.098	0.005	#
26)		2,4'-DDE	7.114f	8.019	159.4E6	160.3E6	68.959	70.506	
27)		trans-Non...	7.308	8.079	159.5E6	876601	43.501	0.243	#
28)		2,4'-DDD	7.544f	8.375f	1002636	168.9E6	0.518	88.253	#
29)		2,4'-DDT	7.682	8.603	957513	126.6E6	0.400	53.904	#
30)		cis-Nonac...	7.803	8.652	85661355	97730531	21.050	24.523	
31)		Mirex	8.447	9.577	963750	135.8E6	0.191	63.258	#
32)		Chlordane...	7.212f	8.019	161.7E6	160.3E6	403.765	368.863	
33)		Chlordane...	7.308	8.125	159.5E6	158.4E6	327.933	435.683	#
34)		Chlordane...	7.894f	0.000	104.3E6	0	801.471	N.D.	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.375	159.5E6	168.9E6	9742.742	5732.864	#
37)		Toxaphene...	7.573f	8.751f	170.2E6	118.8E6	5416.907	2954.958	#
38)		Toxaphene...	7.894	8.751	104.3E6	118.8E6	1502.522	1835.598	
39)		Toxaphene...	8.183f	8.844f	92419605	1330852	1397.560	9.648	#
40)		Toxaphene...	8.345f	8.988	30871728	103.5E6	569.564	1805.212	#
41)		Toxaphene...	8.447	9.357	963750	41495109	12.672	628.201	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

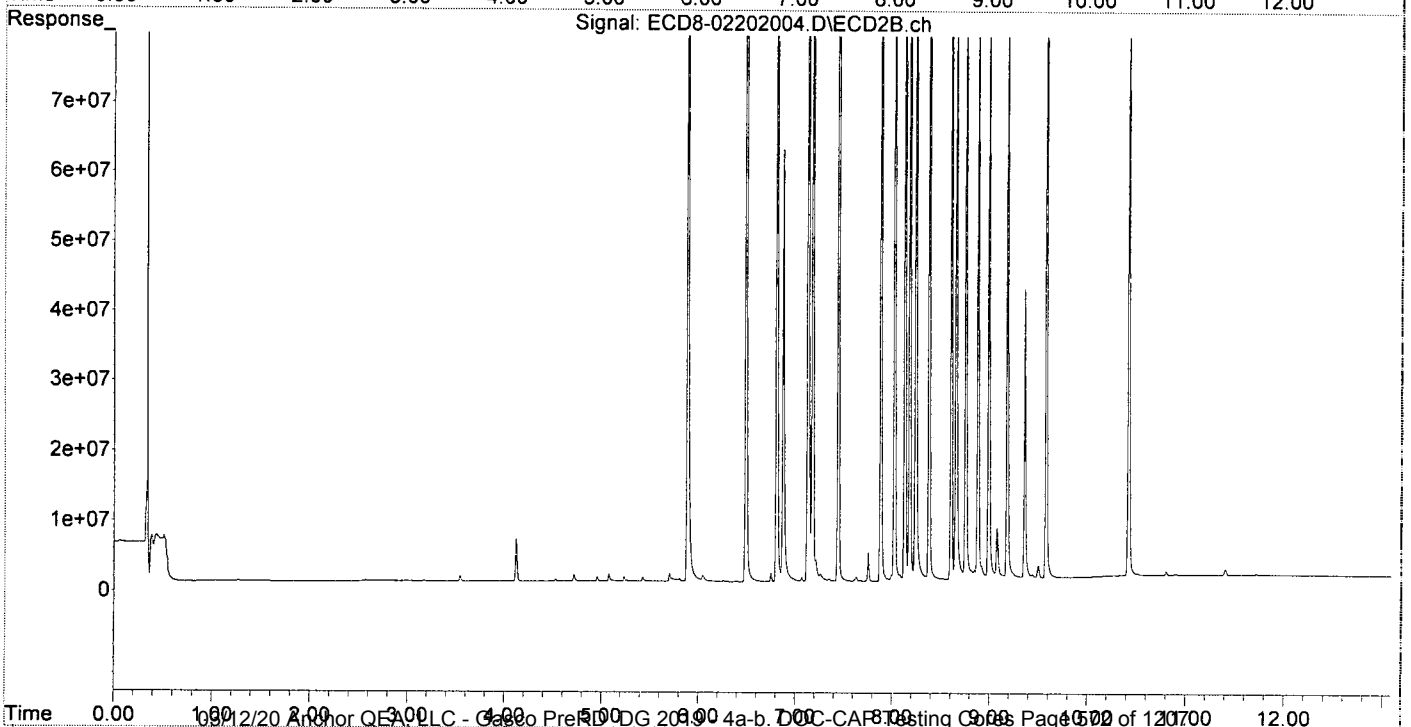
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 11:53
Operator : MJB
Sample : 0B20033-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 12:08:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B20033 BKD2
Data File: ECD8-02202006.D

First Column Area Counts		Percent Breakdown	
DDE	12499913		
DDD	63495821		
DDT	2599629311	**2.84**	**PASS**
Endrin	1687422908	**5.44**	**PASS**
Endrin Aldehyde	47496106		
Endrin Ketone	49579687		

Second Column Area Counts		Percent Breakdown	
DDE	13841383		
DDD	63280765		
DDT	2468828389	**3.03**	**PASS**
Endrin	1465300187	**5.91**	**PASS**
Endrin Aldehyde	41069919		
Endrin Ketone	50998543		

Breakdown must be less than 15% to accept sample data.

MJB 2/22/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 12:42
Operator : MJB
Sample : 0B20033-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 12:57:32 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT4.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	7.368	12499913	NoCal	ng/mL
2)	Endrin	7.724	1687422908	NoCal	ng/mL
3)	4,4'-DDD	7.786	63495821	NoCal	ng/mL
4)	4,4'-DDT	7.982	2599629311	NoCal	ng/mL
5)	Endrin Aldehyde	8.171	47496106	NoCal	ng/mL
6)	Endrin Ketone	8.662	49579687	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.223	13841383	NoCal	ng/mL
9)	Endrin [2C]	8.590	1465300187	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.638	63280765	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	8.976	41069919	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.863	2468828389	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.565	50998543	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

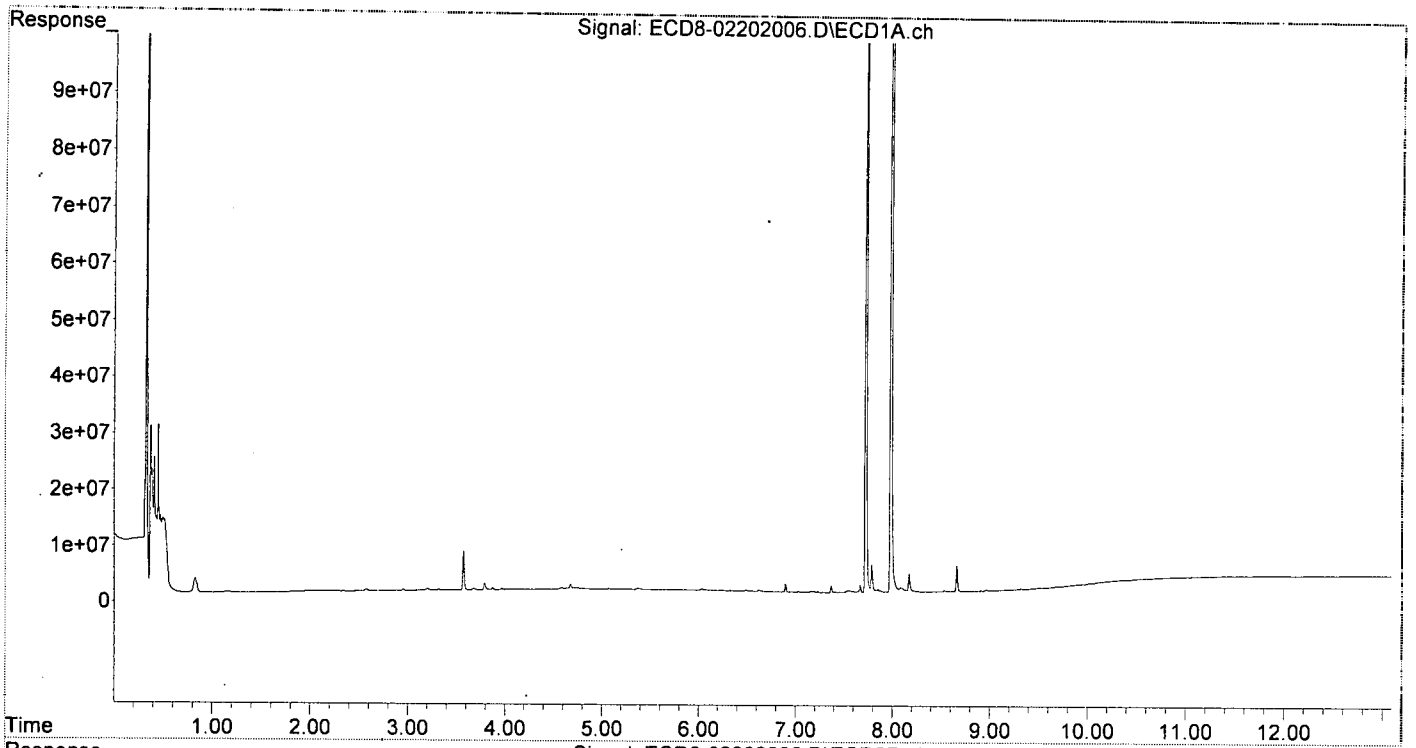
Replaced inlet liner & cut ~ 6" off guard column.

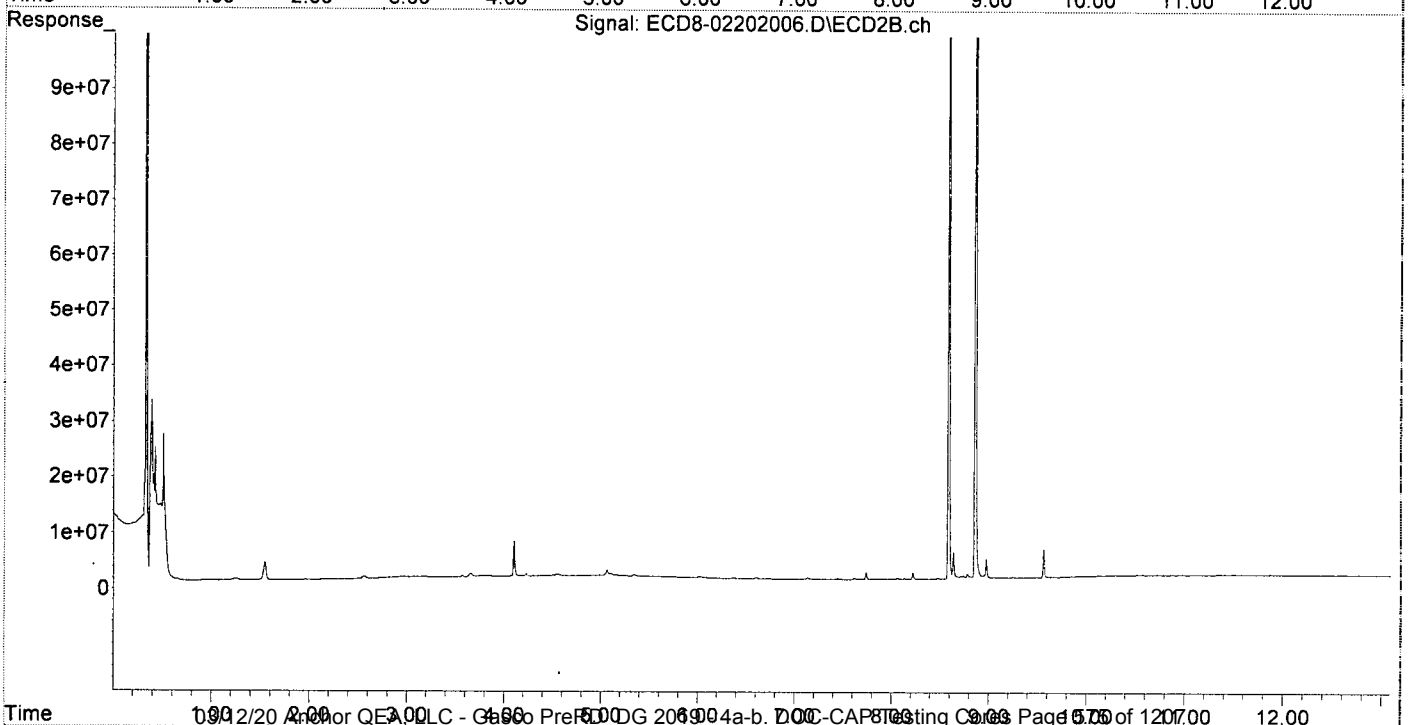
MJB 2/20/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 12:42
Operator : MJB
Sample : 0B20033-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 12:57:32 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT4.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 12:59
Operator : MJB
Sample : 0B20033-CCV2
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:25:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/12/20

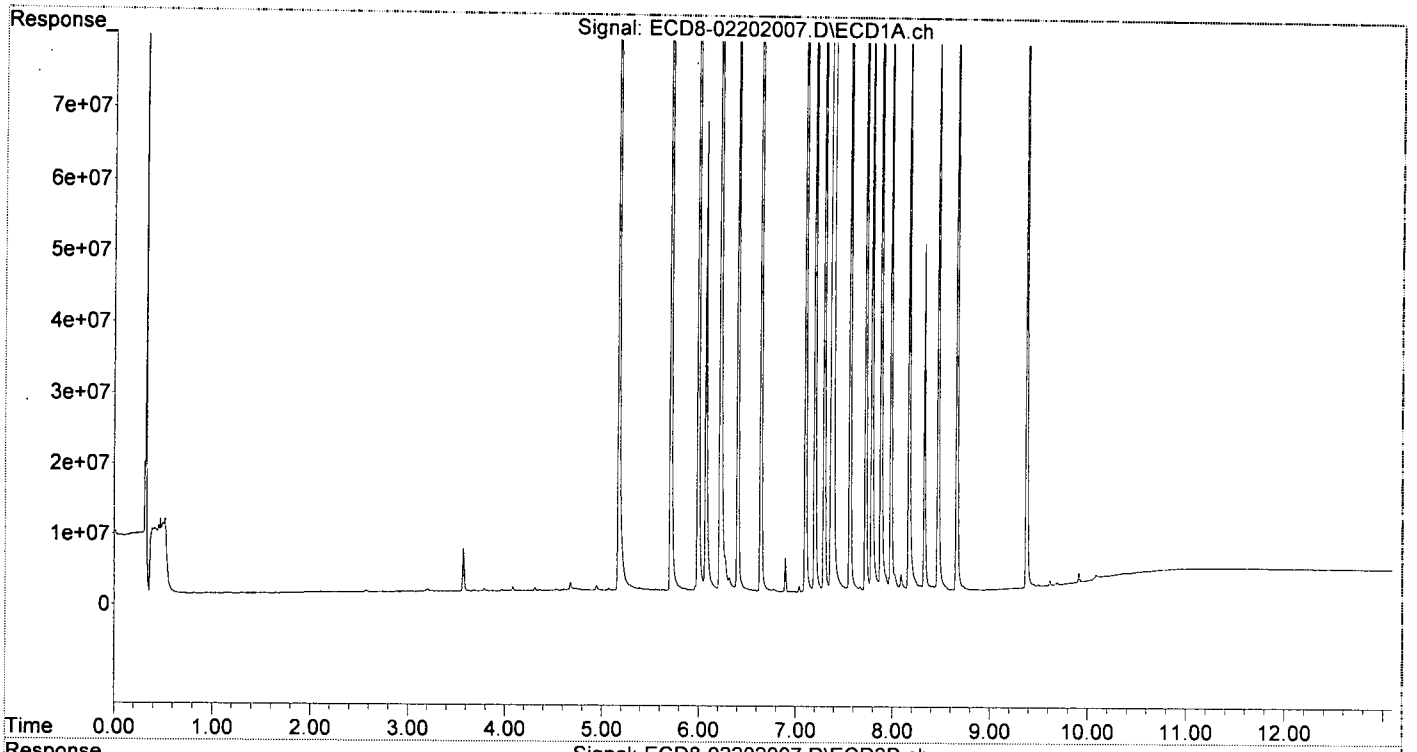
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.174	5.872	149.3E6	153.0E6	42.704	44.347	
22)	S	DCBP (S)	9.377	10.406	123.3E6	102.8E6	46.921	47.963	
		Target Compounds							
2)		a-BHC	5.711	6.475	223.4E6	229.4E6	47.276	49.156	
3)		g-BHC	5.993	6.793	189.9E6	198.3E6	45.620 Q-31	47.342	
4)		b-BHC	6.073	6.859	66616464	73243293	38.249	42.190	
5)		Heptachlor	6.403	7.164	186.1E6	168.9E6	45.276	40.099	
6)		d-BHC	6.222	7.113	139.6E6	165.7E6	38.673 Q-31	43.467	
7)		Aldrin	6.642	7.429	198.7E6	191.1E6	49.183	47.722	
8)		Heptachlo...	7.102	7.866	177.7E6	177.3E6	48.132	49.383	
9)		trans-Chl...	7.198	8.007	175.2E6	169.9E6	46.586	45.681	
10)		cis-Chlor...	7.295	8.114	175.5E6	164.9E6	47.795	46.808	
11)		Endosulfa...	7.388	8.164	168.5E6	155.4E6	48.566	47.015	
12)		4,4'-DDE	7.368	8.223	154.8E6	158.8E6	46.604	46.727	
13)		Dieldrin	7.561	8.364	186.5E6	177.4E6	48.905	47.430	
14)		Endrin	7.724	8.590	153.2E6	135.7E6	46.943	44.091	
15)		4,4'-DDD	7.787	8.638	108.0E6	116.4E6	42.427	44.576	
16)		Endosulfa...	7.880	8.739	123.2E6	128.7E6	41.197	45.108	
17)		4,4'-DDT	7.983	8.864	115.3E6	115.5E6	42.906	42.486	
18)		Endrin Al...	8.169	8.975	109.7E6	113.9E6	41.652	43.086	
19)		Endosulfa...	8.469	9.166	116.2E6	125.2E6	40.600	46.152	
20)		Methoxychlor	8.328	9.344	49356159	54738436	40.904	45.945	
21)		Endrin Ke...	8.662	9.565	151.5E6	138.9E6	43.828	45.307	
23)		Hexachlor...	2.952	3.570	117618	29280	0.030	0.006	#
24)		Hexachlor...	5.557	6.332	408640	15494	0.122	BelowCal	#
25)		Oxychlordane	7.040	7.823f	852521	18086	0.098	0.006	#
26)		2,4'-DDE	7.102	8.007	177.7E6	169.9E6	76.875	74.730	
27)		trans-Non...	7.295	8.068	175.5E6	542611	47.874	0.150	#
28)		2,4'-DDD	0.000	8.364	0	177.4E6	N.D.	92.651	#
29)		2,4'-DDT	7.668	8.590	712508	135.7E6	0.298	57.429	#
30)		cis-Nonac...	7.787f	8.638	108.0E6	116.4E6	26.533	29.215	
31)		Mirex	8.416	9.565	662303	138.9E6	0.067	64.661	#
32)		Chlordane...	7.198	8.007	175.2E6	169.9E6	437.451	390.957	
33)		Chlordane...	7.295	8.114	175.5E6	164.9E6	360.898	453.549	#
34)		Chlordane...	0.000	8.783	0	1131761	N.D.	9.530	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.295	8.364	175.5E6	177.4E6	10722.110	6018.542	#
37)		Toxaphene...	7.561f	8.739f	186.5E6	128.7E6	5936.424	3203.058	#
38)		Toxaphene...	7.880f	8.739	123.2E6	128.7E6	1780.359	1989.716	
39)		Toxaphene...	8.169	8.828	109.7E6	560363	1655.102	1.642	#
40)		Toxaphene...	8.389	8.975f	723826	113.9E6	13.354	1986.900	#
41)		Toxaphene...	8.438	9.344f	565051	54738436	7.430	828.694	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

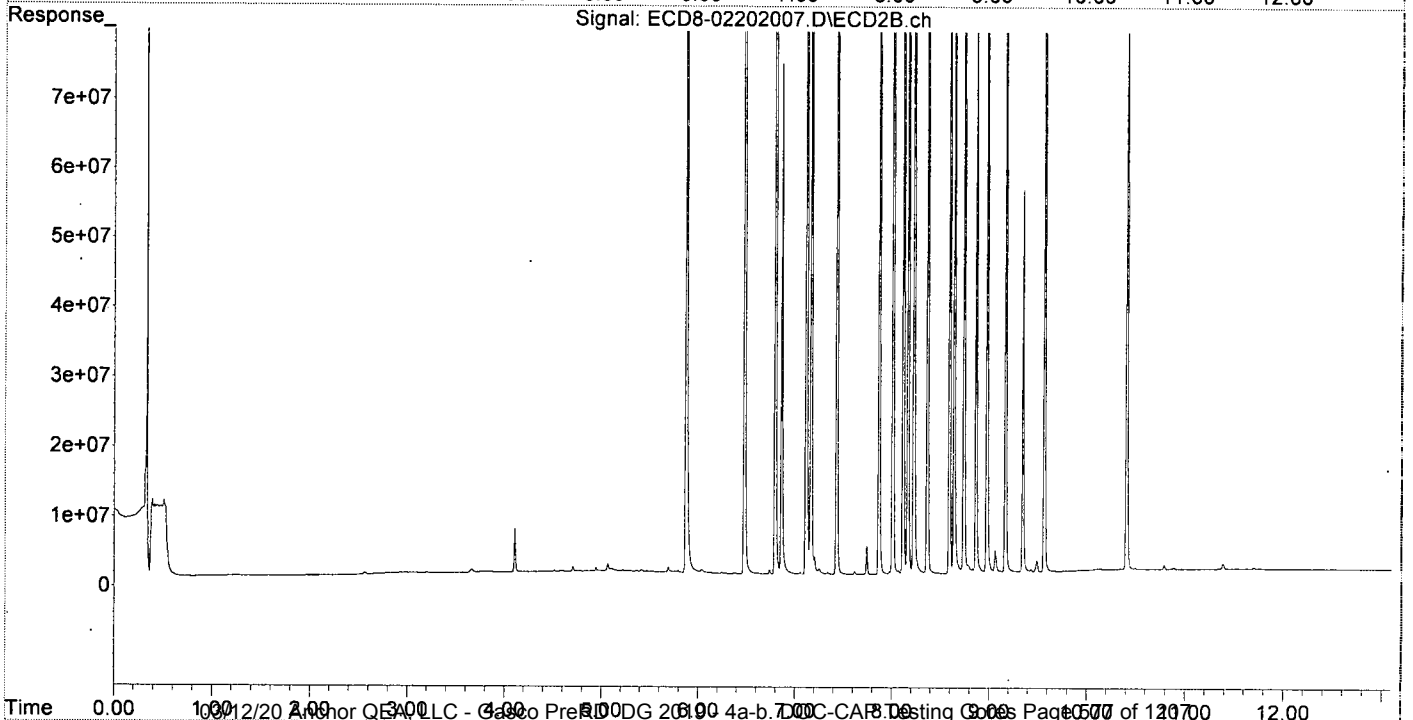
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 12:59
Operator : MJB
Sample : 0B20033-CCV2
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:25:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:15
Operator : MJB
Sample : 0B20033-CCV3
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/20/20

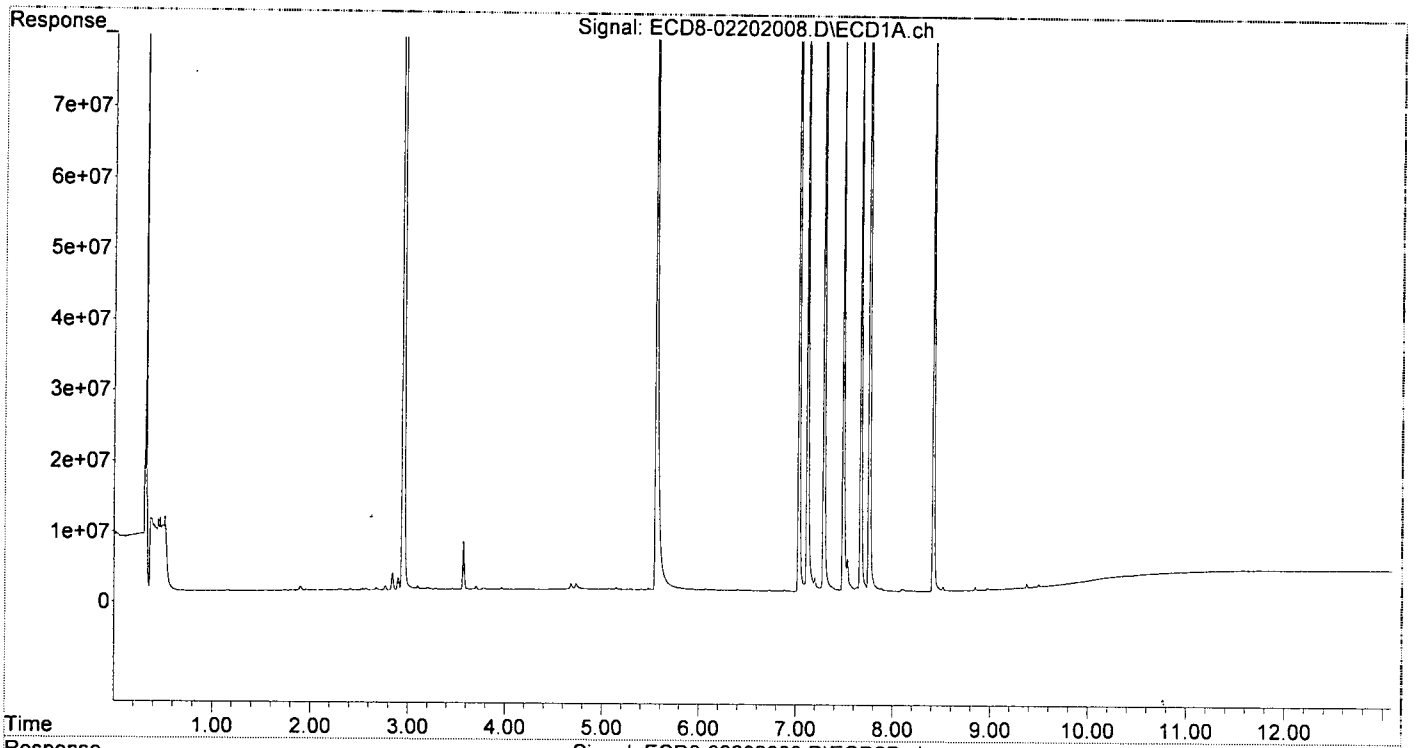
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.150f	5.880	310053	84465	0.089	0.024	#
22)	S	DCBP (S)	9.377	10.407	660250	722651	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	5.997	6.802	126630	25428	0.030	0.049	#
4)		b-BHC	6.074	6.865	207426	47728	0.119	0.027	#
5)		Heptachlor	6.403	7.164	195925	145365	0.048	0.035	#
6)		d-BHC	6.232	7.116	84272	37998	0.131	0.108	
7)		Aldrin	6.643	7.427	53196	18401	0.013	0.017	#
8)		Heptachlo...	7.117	7.865	106.2E6	542810	28.758	0.151	#
9)		trans-Chl...	7.198	8.002	1947073	111.8E6	0.518	30.077	#
10)		cis-Chlor...	7.289	0.000	176.3E6	0	48.010	N.D.	#
11)		Endosulfa...	0.000	8.162	0	271139	N.D.	0.082	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	7.566	8.374	968140	84176593	0.254	23.292	#
14)		Endrin	7.757f	8.597	196.7E6	99077092	60.274	32.751	#
15)		4,4'-DDD	7.757f	8.634	196.7E6	191.8E6	77.295	69.268	
16)		Endosulfa...	7.883	8.721	454941	371633	0.152	0.111	#
17)		4,4'-DDT	7.986	8.864	119580	95316	0.044	0.013	#
18)		Endrin Al...	8.173	8.975	99091	95704	0.038	0.036	
19)		Endosulfa...	0.000	9.168	0	43431	N.D.	BelowCal	
20)		Methoxychlor	8.334	9.348	12524	38417	0.010	BelowCal	#
21)		Endrin Ke...	8.663	9.554	65080	108.4E6	0.019	35.883	#
23)		Hexachlor...	2.951	3.571	195.6E6	244.6E6	50.172	50.513	
24)		Hexachlor...	5.556	6.339	135.7E6	141.0E6	40.364	45.405	
25)		Oxychlordane	7.031	7.796	157.9E6	149.6E6	50.862	46.778	
26)		2,4'-DDE	7.117	8.002	106.2E6	111.8E6	45.931	49.203	
27)		trans-Non...	7.289	8.070	176.3E6	170.7E6	48.089	47.291	
28)		2,4'-DDD	7.488	8.374	84227977	84176593	43.488	43.973	
29)		2,4'-DDT	7.668	8.597	103.1E6	99077092	43.089	42.980	
30)		cis-Nonac...	7.757	8.634	196.7E6	191.8E6	48.339	48.118	
31)		Mirex	8.418	9.554	123.3E6	108.4E6	51.013	50.766	
32)		Chlordane...	7.198	8.002	1947073	111.8E6	4.862	257.413	#
33)		Chlordane...	7.289	0.000	176.3E6	0	362.522	N.D.	#
34)		Chlordane...	0.000	8.790	0	552749	N.D.	4.655	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.289	8.374	176.3E6	84176593	10770.372	2856.449	#
37)		Toxaphene...	7.566f	8.721	968140	371633	30.817	9.247	#
38)		Toxaphene...	7.883f	8.721f	454941	371633	3.303	5.744	#
39)		Toxaphene...	8.157	8.790f	71514	552749	BelowCal	1.563	
40)		Toxaphene...	8.378	8.975f	10728	95704	0.198	1.669	#
41)		Toxaphene...	8.418f	9.348f	123.3E6	38417	1621.010	0.582	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

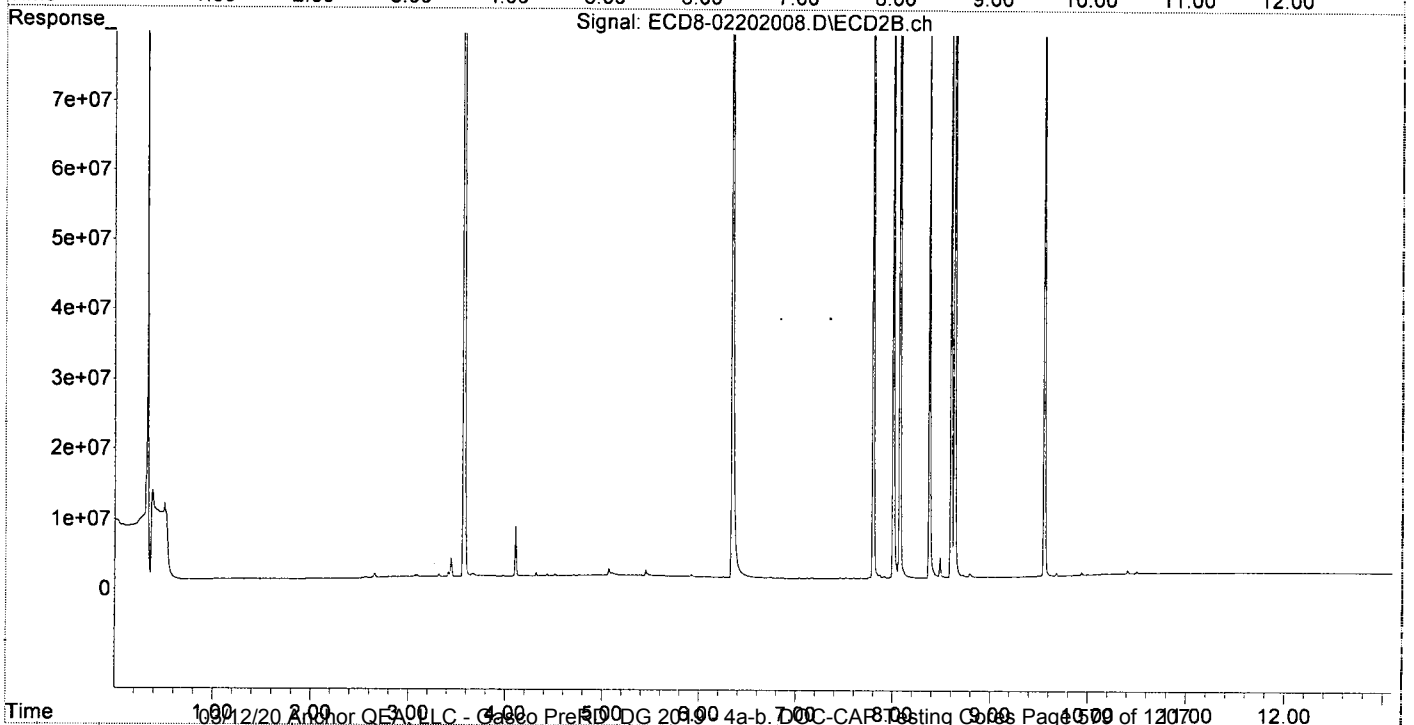
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:15
Operator : MJB
Sample : 0B20033-CCV3
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:32
Operator : MJB
Sample : 0B20033-CCV4
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/20/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.172	5.884	99086	182840	0.028	0.053	#
22)	S	DCBP (S)	9.379	10.419	310828	149706	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.698	6.502f	97685	3296480	0.021	0.847	#
3)		g-BHC	6.010	6.801	255462	1575663	0.061	0.446	#
4)		b-BHC	6.072	6.894f	548205	4796154	0.315	2.763	#
5)		Heptachlor	6.403	7.164	80280076	72594240	19.533	17.240	
6)		d-BHC	6.216	7.099	944662	523960	0.380	0.247	#
7)		Aldrin	6.645	7.435	1155829	784167	0.286	0.222	
8)		Heptachlo...	7.115	7.886f	14274829	4172270	3.866	1.162	#
9)		trans-Chl...	7.199	8.007	178.4E6	191.1E6	47.427	51.400	
10)		cis-Chlor...	7.294	8.114	234.4E6	166.9E6	63.836	47.375	#
11)		Endosulfa...	7.370	8.183f	3581688	2669295	1.033	0.808	
12)		4,4'-DDE	7.370	8.210	3581688	3767787	1.079	1.296	
13)		Dieldrin	7.578	8.365	5660031	14712005	1.484	4.210	#
14)		Endrin	7.717	8.608	3374762	2126710	1.034	0.732	#
15)		4,4'-DDD	7.813f	8.636	5107425	29025404	2.007	12.089	#
16)		Endosulfa...	7.890	8.726	3829552	4284811	1.280	1.591	
17)		4,4'-DDT	7.982	8.875	1904046	1245053	0.708	0.482	#
18)		Endrin Al...	8.196f	8.947f	1061470	888711	0.403	0.336	
19)		Endosulfa...	8.477	9.148	2358007	254846	0.824	0.013	#
20)		Methoxychlor	8.321	9.345	1007528	155304	0.835	BelowCal	#
21)		Endrin Ke...	8.663	9.566	317219	1850973	0.092	0.433	#
23)		Hexachlor...	2.951	3.567	62742	24219	0.016	0.005	#
24)		Hexachlor...	5.551	6.311f	61299	325752	0.018	0.059	#
25)		Oxychlordane	7.025	7.810	1880601	2264335	0.433	0.708	#
26)		2,4'-DDE	7.115	8.007	14274829	191.1E6	6.174	84.085	#
27)		trans-Non...	7.294	8.070	234.4E6	138.1E6	63.942	38.272	#
28)		2,4'-DDD	7.516f	8.365	19368421	14712005	10.000	7.685	
29)		2,4'-DDT	7.685	8.608	4819067	2126710	2.014	0.948	#
30)		cis-Nonac...	7.758	8.636	30698254	29025404	7.544	7.283	
31)		Mirex	8.420	9.566	293028	1850973	8199.008	0.642	#
32)		Chlordane...	7.199	8.007	178.4E6	191.1E6	445.345	439.903	
33)		Chlordane...	7.294	8.114	234.4E6	166.9E6	482.023	459.038	
34)		Chlordane...	7.837	8.774	56225213	48715775	431.846	410.219	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.294	8.365	234.4E6	14712005	14320.696	499.237	#
37)		Toxaphene...	7.617	8.726	13075516	4284811	416.213	106.617	#
38)		Toxaphene...	7.914	8.751	2115703	3295712	26.903	50.941	#
39)		Toxaphene...	8.139	8.827	3295985	2749593	43.852	24.366	#
40)		Toxaphene...	8.383	9.005	332063	8639660	6.126	150.703	#
41)		Toxaphene...	8.437	9.391	422618	793933	5.557	12.019	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

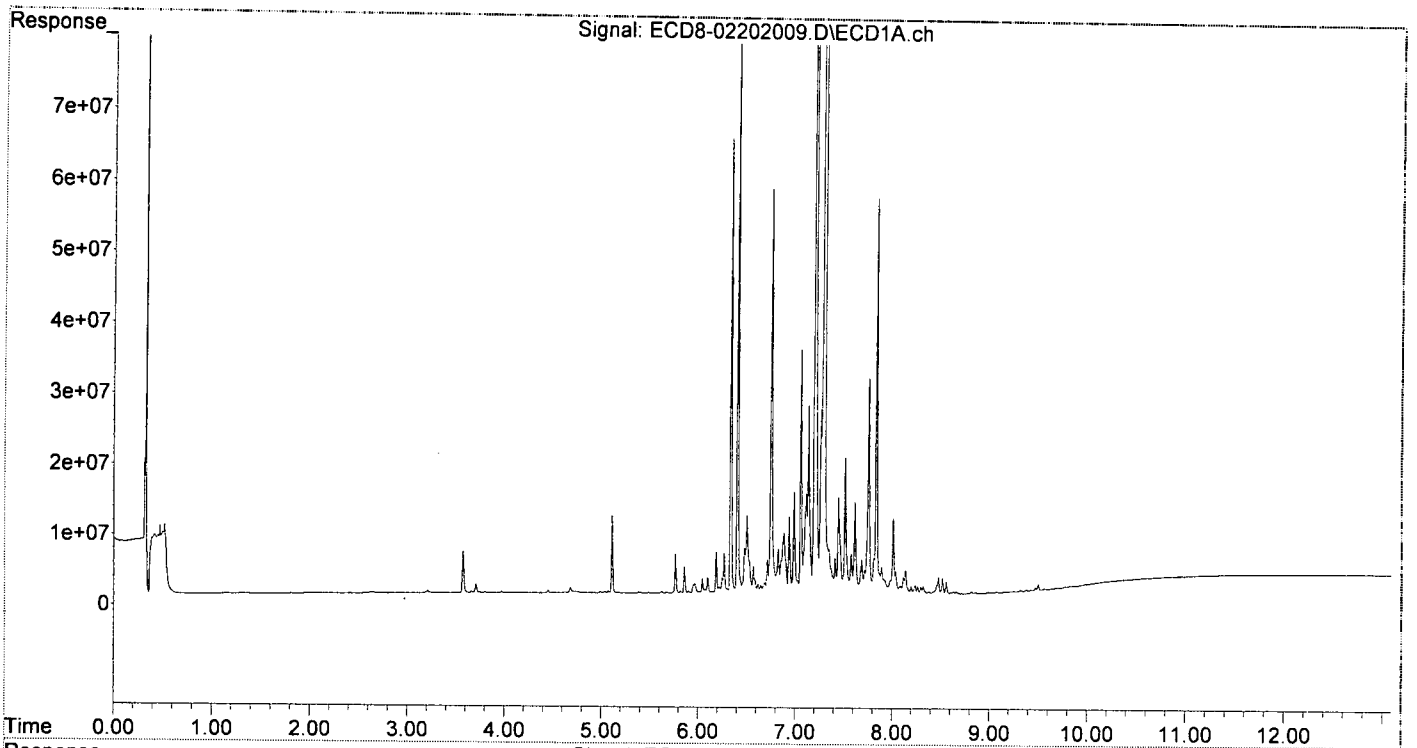
A B
452.07 436.39

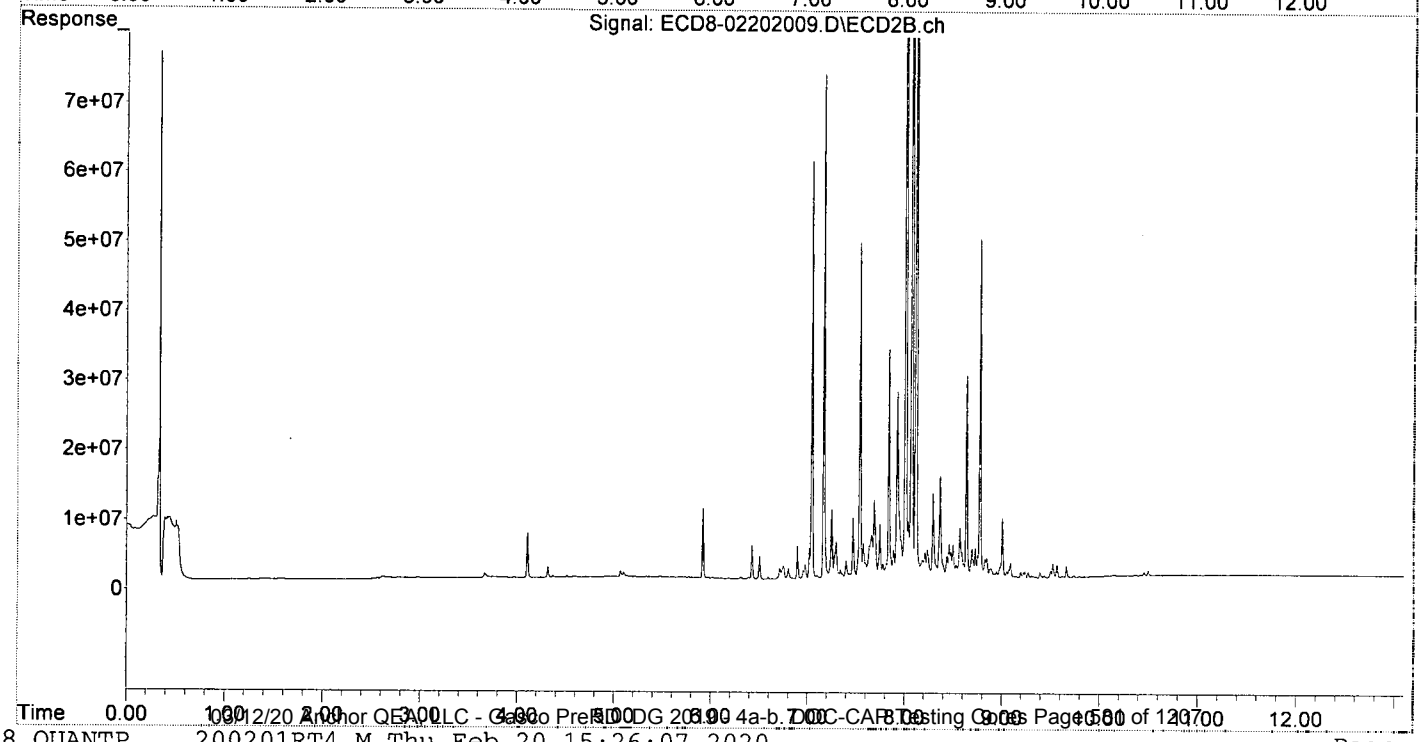
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:32
Operator : MJB
Sample : 0B20033-CCV4
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:49
Operator : MJB
Sample : 0B20033-CCB1
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/20/20

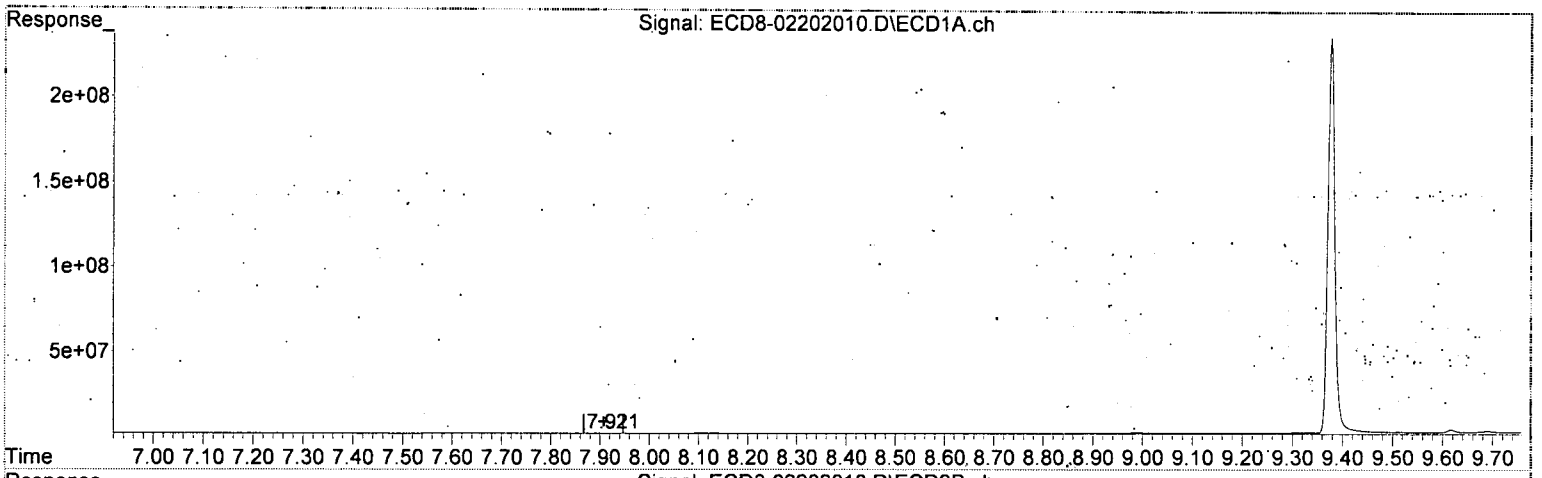
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.175	5.873	276.3E6	288.7E6	79.023	83.688	
22)	S	DCBP (S)	9.378	10.407	233.7E6	206.2E6	87.603	92.516	
		Target Compounds							
2)		a-BHC	0.000	6.445f	0	31649	N.D.	0.083	#
3)		g-BHC	0.000	6.762f	0	11822	N.D.	0.045	#
4)		b-BHC	6.080	0.000	103397	0	0.059	N.D.	#
5)		Heptachlor	0.000	7.173	0	19313	N.D.	0.005	#
6)		d-BHC	6.239	7.116	18518	21634	0.112	0.104	
7)		Aldrin	0.000	7.456f	0	134780	N.D.	0.048	#
8)		Heptachlo...	7.070f	7.893f	7950	15903	0.002	0.004	#
9)		trans-Chl...	7.200	8.015	123213	47851	0.033	0.013	#
10)		cis-Chlor...	7.296	8.114	35277	13329	0.010	0.004	#
11)		Endosulfa...	0.000	8.166	0	7343	N.D.	0.002	#
12)		4,4'-DDE	0.000	8.197f	0	9297	N.D.	0.091	#
13)		Dieldrin	7.564	8.367	8831	8218	0.002	0.035	#
14)		Endrin	0.000	8.592	0	48856	N.D.	0.009	#
15)		4,4'-DDD	0.000	8.625	0	20629	N.D.	0.052	#
16)		Endosulfa...	7.888	8.723	154458	168381	0.052	0.033	#
17)		4,4'-DDT	0.000	8.869	0	48714	N.D.	BelowCal	
18)		Endrin Al...	8.170	8.976	106301	71907	0.040	0.027	#
19)		Endosulfa...	8.476	9.170	32631	43128	0.011	BelowCal	#
20)		Methoxychlor	8.327	9.343	37469	42927	0.031	BelowCal	#
21)		Endrin Ke...	8.665	9.568	29177	664805	0.008	0.013	#
23)		Hexachlor...	2.952	3.594f	44804	41734	0.011	0.009	#
24)		Hexachlor...	5.559	6.330	376084	50922	0.112	BelowCal	#
25)		Oxychlordane	7.044	7.815	112440	16739	BelowCal	0.005	
26)		2,4'-DDE	0.000	8.015	0	47851	N.D.	0.021	#
27)		trans-Non...	7.292	8.075	27615	12743	0.008	0.004	#
28)		2,4'-DDD	0.000	8.367	0	8218	N.D.	0.004	#
29)		2,4'-DDT	0.000	8.592	0	48856	N.D.	BelowCal	
30)		cis-Nonac...	0.000	8.625	0	20629	N.D.	0.005	#
31)		Mirex	8.417	9.568	22154	664805	8199.120	0.069	#
32)		Chlordane...	7.200	8.015	123213	47851	0.308	0.110	#
33)		Chlordane...	7.292	8.114	27615	13329	0.057	0.037	#
34)		Chlordane...	7.866f	8.796f	31602	423740	0.243	3.568	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.296	8.367	35277	8218	2.155	0.279	#
37)		Toxaphene...	7.564f	8.723	8831	168381	0.281 Q-DI	4.190	#
38)		Toxaphene...	7.921	8.723f	22822	168381	~~96753.612~~	2.603	#
39)		Toxaphene...	8.162	8.796f	105452	423740	BelowCal	0.222	
40)		Toxaphene...	8.375	9.014	29698	27599	0.548	0.481	
41)		Toxaphene...	8.443	9.385	19379	40845	0.255	0.618	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

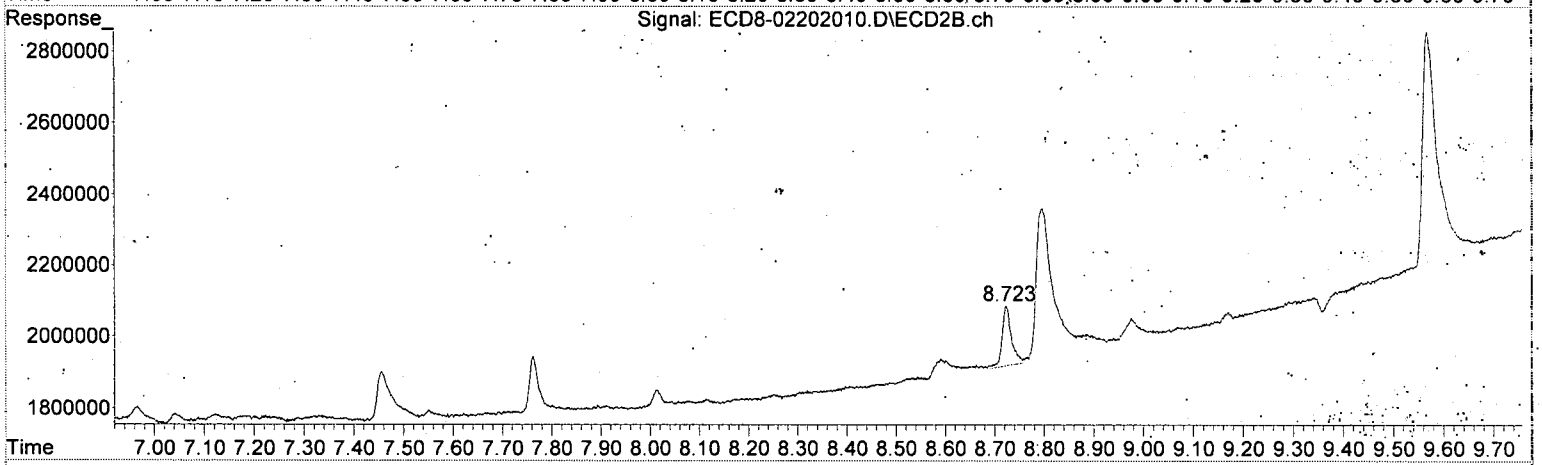
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:49
Operator : MJB
Sample : 0B20033-CCB1
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.921min 96753.612 ng/mL Q-QC1

response 22822

WP 2/20/20

(38) Toxaphene (3) #2

8.723min 2.603 ng/mL

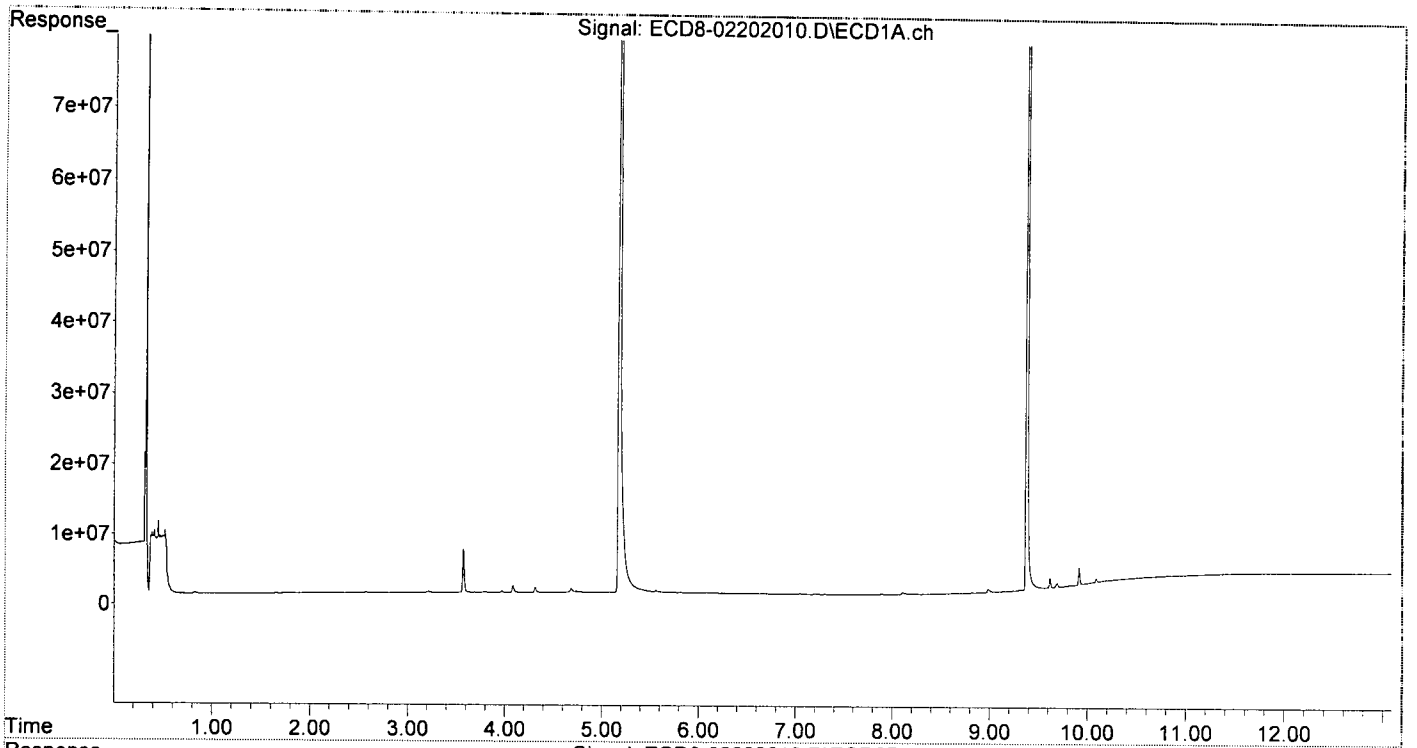
response 168381

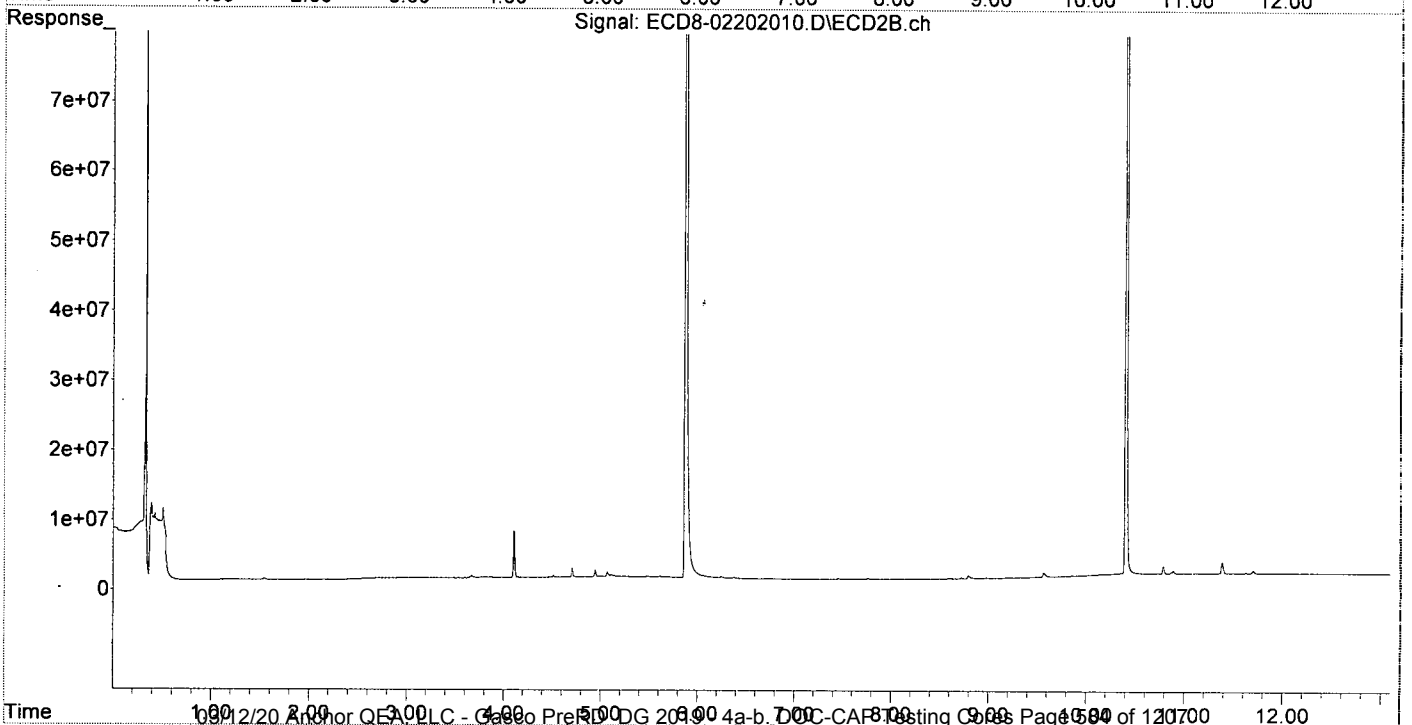
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 13:49
Operator : MJB
Sample : 0B20033-CCB1
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04

MJB 2/20/20

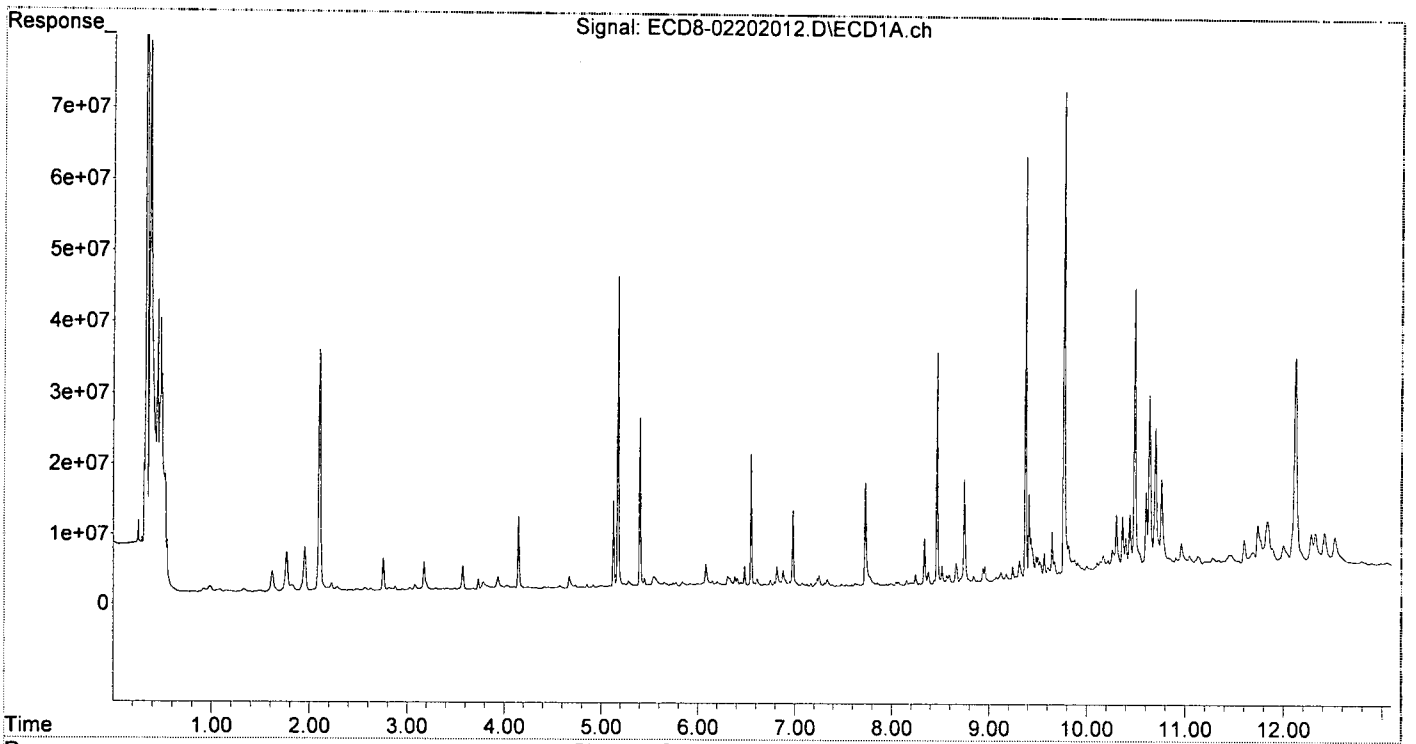
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.173	5.872	44287995	44785984	12.668	12.983	
22)	S	DCBP (S)	9.374	10.405	60205586	51492451	22.997	24.376	
		Target Compounds							
2)		a-BHC	5.715	6.468	596503	450225	0.126	0.181	#
3)		g-BHC	5.993	6.782	589569	1545343	0.142	0.438	#
4)		b-BHC	6.082	6.868	3410480	966702	1.958	0.557	#
5)		Heptachlor	6.406	7.181	1312328	1051779	0.319	0.250	
6)		d-BHC	6.198f	7.130	886407	470610	0.363	0.232	#
7)		Aldrin	6.612f	7.430	1190826	168019	0.295	0.057	#
8)		Heptachlo...	7.077f	7.845f	543901	743784	0.147	0.207	#
9)		trans-Chl...	7.167f	8.007	475368	756968	0.126	0.204	#
10)		cis-Chlor...	7.308	8.138f	552332	1483051	0.150	0.421	#
11)		Endosulfa...	7.393	8.169	236033	309757	0.068	0.094	#
12)		4,4'-DDE	7.354	8.233	454212	599421	0.137m	0.281	#
13)		Dieldrin	7.567	8.348	57489	19034295	0.015	5.428	#
14)		Endrin	7.728	8.597	14885289	614775	4.561	0.206	#
15)		4,4'-DDD	0.000	8.619	0	379056	N.D.	0.205	#
16)		Endosulfa...	7.854f	8.709f	432244	840586	0.144	0.288	#
17)		4,4'-DDT	7.993	8.861	311047	370084	0.116m	0.125	
18)		Endrin Al...	8.154	8.972	758697	564011	0.288	0.213	#
19)		Endosulfa...	8.466	9.180	32989131	3229598	11.526	1.201	#
20)		Methoxychlor	8.337	9.325	6685474	430907	5.541	0.032	#
21)		Endrin Ke...	8.661	9.550	2914733	3597635	0.843	1.052	
23)		Hexachlor...	2.951	3.546f	149089	4532774	0.038	0.936	#
24)		Hexachlor...	5.551	6.328	1632286	462213	0.486	0.106	#
25)		Oxychlordane	0.000	7.787	0	2136906	N.D.	0.668	#
26)		2,4'-DDE	7.129	7.986	370682	1473897	0.160m	0.648m	#
27)		trans-Non...	7.308	8.068	552332	982324	0.151	0.272	#
28)		2,4'-DDD	7.484	8.348f	322102	19034295	0.166	9.943	# R01
29)		2,4'-DDT	7.651	8.597	302433	614775	0.126	0.240	#
30)		cis-Nonac...	7.728f	8.619	14885289	379056	3.658	0.095	#
31)		Mirex	8.437	9.550	640147	3597635	0.058	1.486	#
32)		Chlordane...	7.167f	8.007	475368	756968	1.187	1.742	#
33)		Chlordane...	7.308	8.138f	552332	1483051	1.136	4.079	#
34)		Chlordane...	7.854	8.774	432244	877578	3.320	7.390	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.348f	552332	19034295	33.742	645.910	#
37)		Toxaphene...	7.590	8.709	212444	840586	6.762	20.916	#
38)		Toxaphene...	7.916	8.774f	111316	877578	96752.355	13.565	#
39)		Toxaphene...	8.154	8.833	758697	320944	4.754	BelowCal	#
40)		Toxaphene...	8.378	8.972f	1838946	564011	33.927	9.838	#
41)		Toxaphene...	8.437	9.367	640147	3798338	8.417	57.504	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

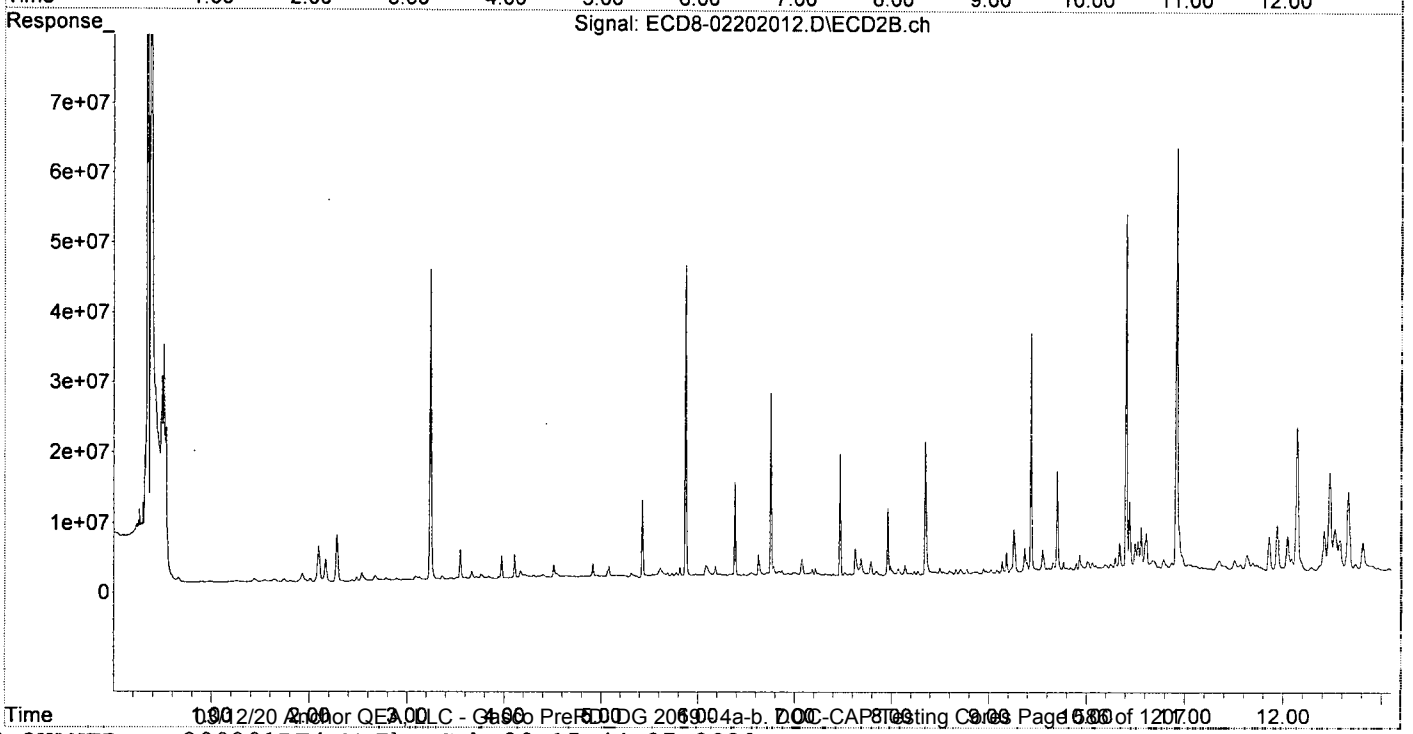
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

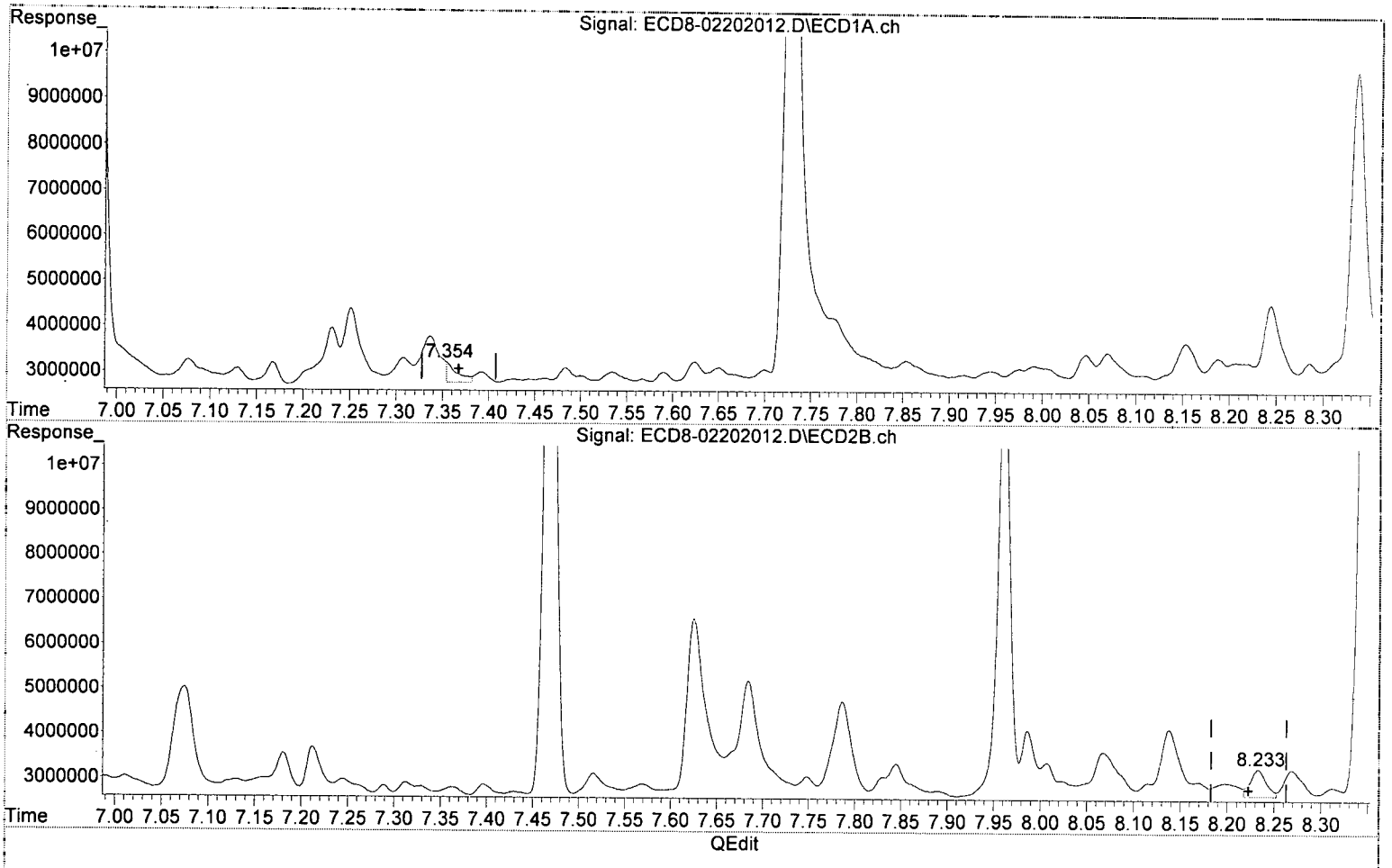




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE

7.354min 0.137 ng/mL (m)

response 454212

MJB 4/2012

(12) 4,4'-DDE #2

8.233min 0.281 ng/mL

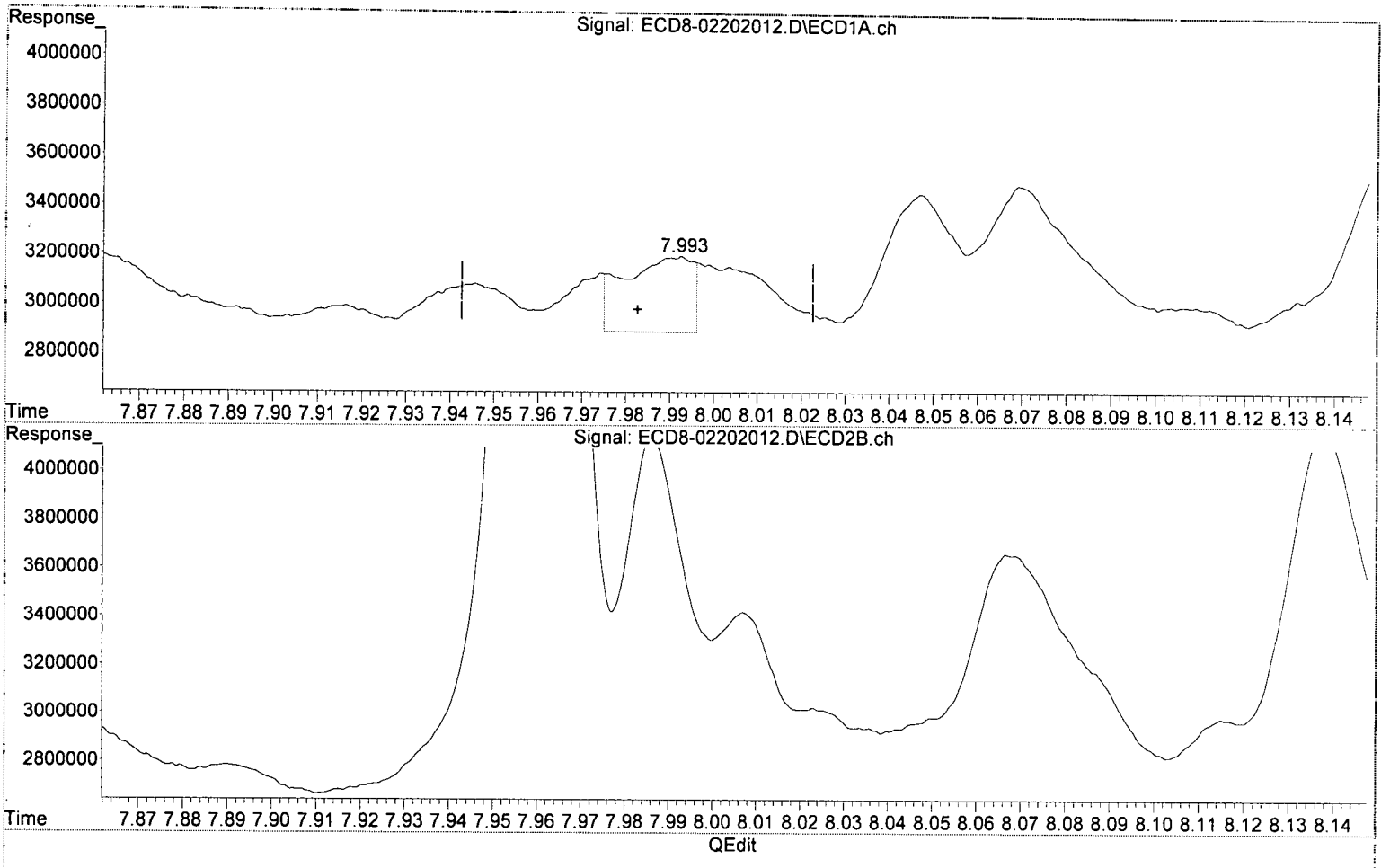
response 599421

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

7.993min 0.116 ng/mL (m)

response 311047

MB 2/20/20

(17) 4,4'-DDT #2

8.861min 0.125 ng/mL

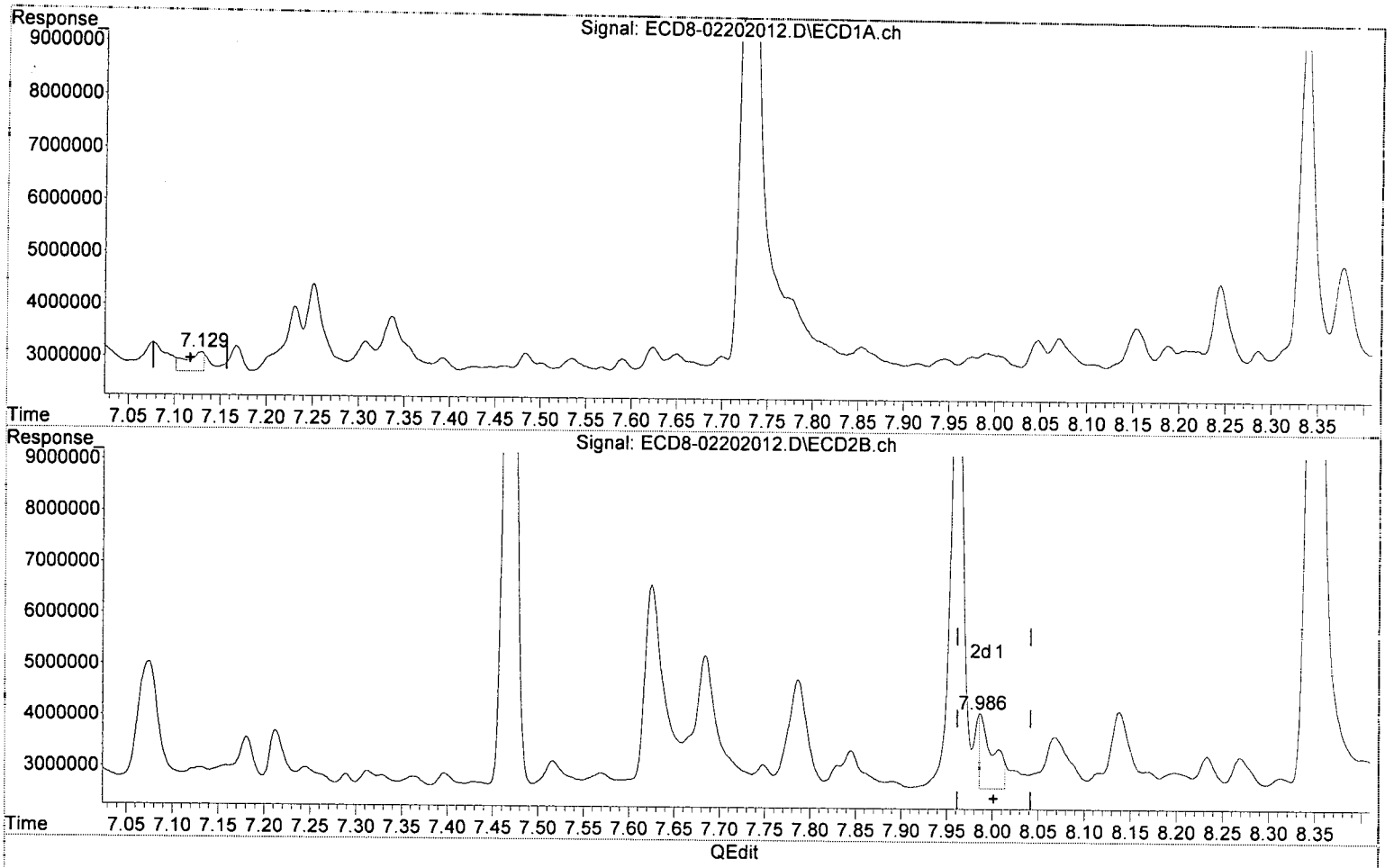
response 370084

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.129min 0.160 ng/mL (m)

response 370682

MJB 2/20/20

(26) 2,4'-DDE #2

7.986min 0.648 ng/mL (m)

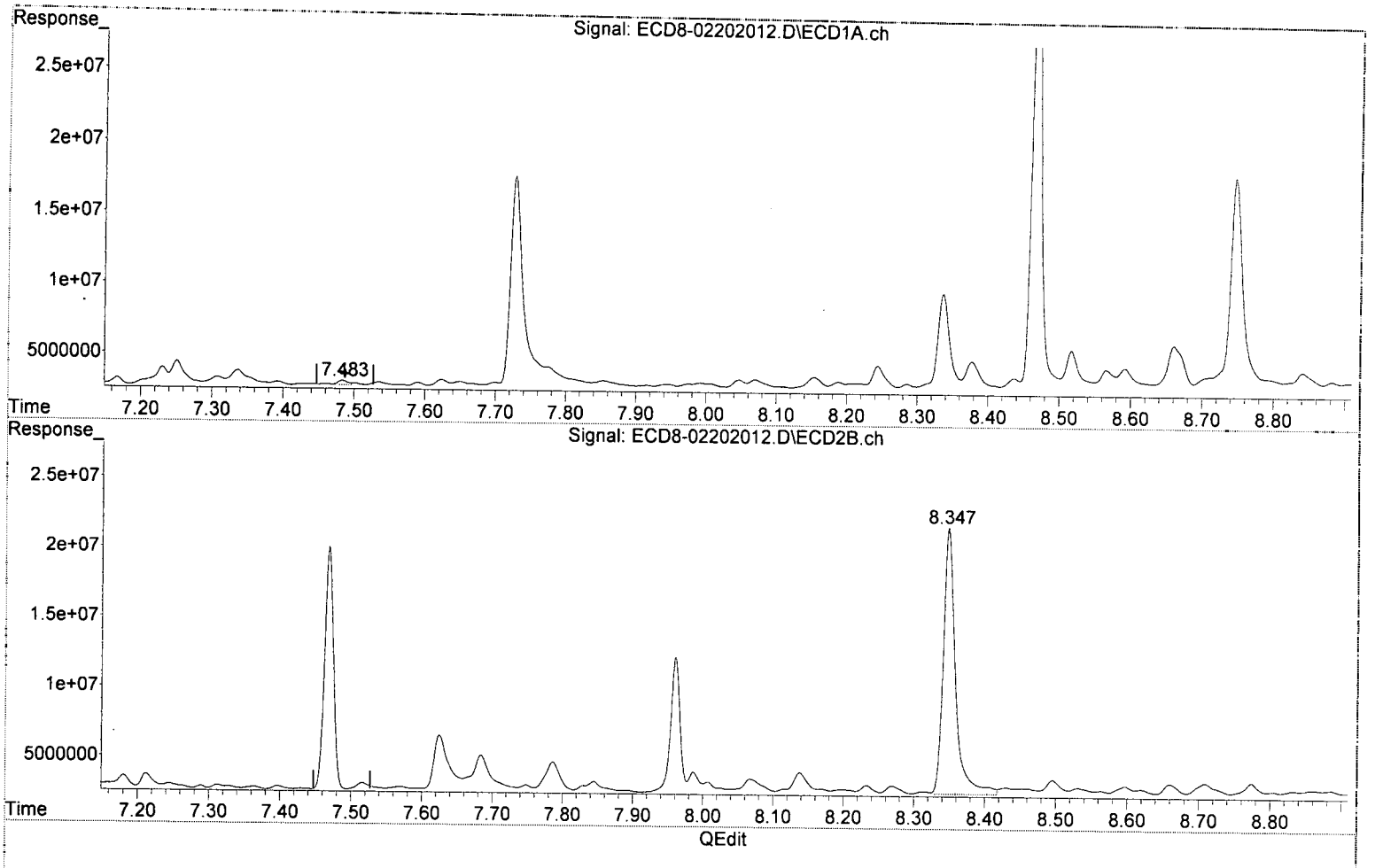
response 1473897

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.484min 0.166 ng/mL

response 322102

MJB 2/20/20

(28) 2,4'-DDD #2

8.348min 9.943 ng/mL R01

response 19034295

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MF MJB 2/20/20

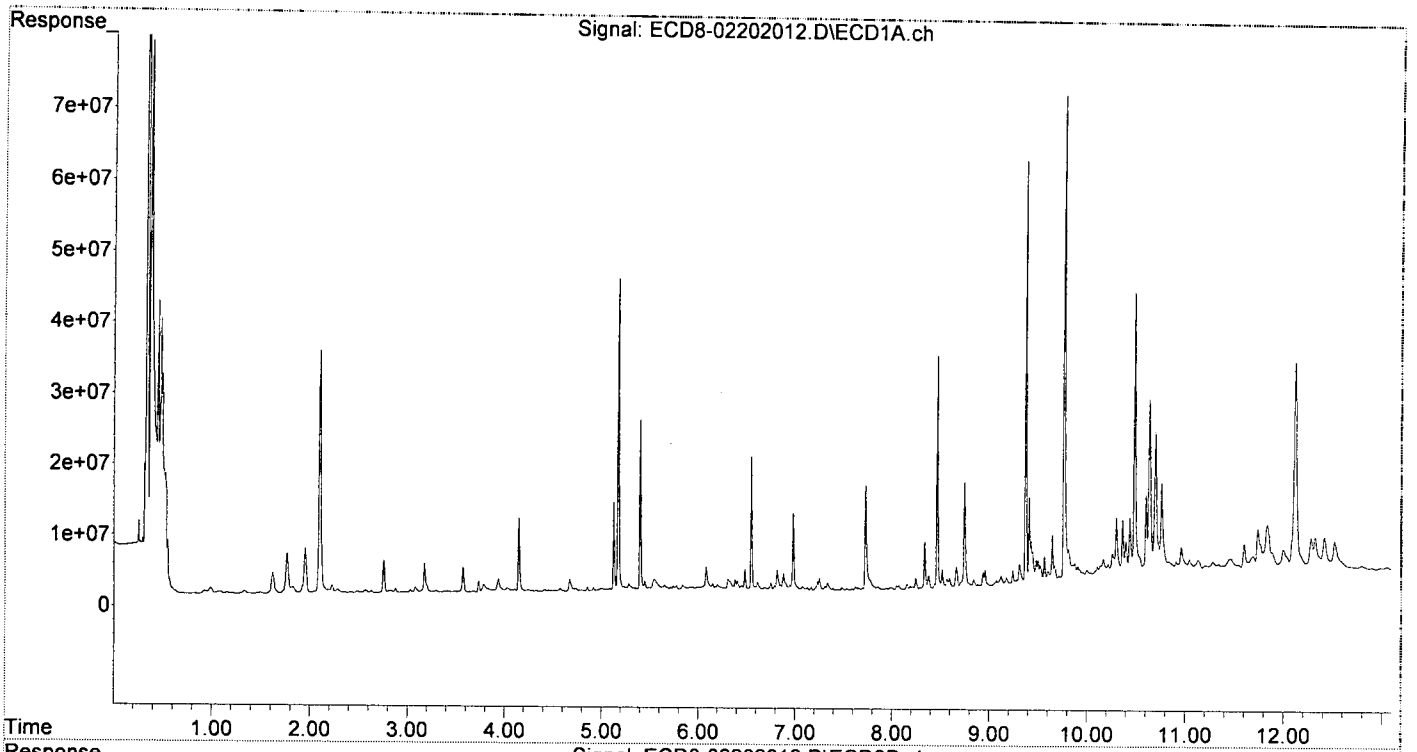
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.173	5.872	44287995	44785984	12.668	12.983	
22)	S	DCBP (S)	9.374	10.405	60205586	51492451	22.997	24.376	
		Target Compounds							
2)		a-BHC	5.715	6.468	596503	450225	0.126	0.181	#
3)		g-BHC	5.993	6.782	589569	1545343	0.142	0.438	#
4)		b-BHC	6.082	6.868	3410480	966702	1.958	0.557	#
5)		Heptachlor	6.406	7.181	1312328	1051779	0.319	0.250	
6)		d-BHC	6.198f	7.130	886407	470610	0.363	0.232	#
7)		Aldrin	6.612f	7.430	1190826	168019	0.295	0.057	#
8)		Heptachlo...	7.077f	7.845f	543901	743784	0.147	0.207	#
9)		trans-Chl...	7.167f	8.007	475368	756968	0.126	0.204	#
10)		cis-Chlor...	7.308	8.138f	552332	1483051	0.150	0.421	#
11)		Endosulfa...	7.393	8.169	236033	309757	0.068	0.094	#
12)		4,4'-DDE	7.393f	8.233	236033	599421	0.071	0.281	#
13)		Dieldrin	7.567	8.348	57489	19034295	0.015	5.428	#
14)		Endrin	7.728	8.597	14885289	614775	4.561	0.206	#
15)		4,4'-DDD	0.000	8.619	0	379056	N.D.	0.205	#
16)		Endosulfa...	7.854f	8.709f	432244	840586	0.144	0.288	#
17)		4,4'-DDT	7.976	8.861	233653	370084	0.087	0.125	#
18)		Endrin Al...	8.154	8.972	758697	564011	0.288	0.213	#
19)		Endosulfa...	8.466	9.180	32989131	3229598	11.526	1.201	#
20)		Methoxychlor	8.337	9.325	6685474	430907	5.541	0.032	#
21)		Endrin Ke...	8.661	9.550	2914733	3597635	0.843	1.052	
23)		Hexachlor...	2.951	3.546f	149089	4532774	0.038	0.936	#
24)		Hexachlor...	5.551	6.328	1632286	462213	0.486	0.106	#
25)		Oxychlordane	0.000	7.787	0	2136906	N.D.	0.668	#
26)		2,4'-DDE	7.130	8.007	357405	756968	0.155	0.333	#
27)		trans-Non...	7.308	8.068	552332	982324	0.151	0.272	#
28)		2,4'-DDD	7.484	8.348f	322102	19034295	0.166	9.943	#
29)		2,4'-DDT	7.651	8.597	302433	614775	0.126	0.240	#
30)		cis-Nonac...	7.728f	8.619	14885289	379056	3.658	0.095	#
31)		Mirex	8.437	9.550	640147	3597635	0.058	1.486	#
32)		Chlordane...	7.167f	8.007	475368	756968	1.187	1.742	#
33)		Chlordane...	7.308	8.138f	552332	1483051	1.136	4.079	#
34)		Chlordane...	7.854	8.774	432244	877578	3.320	7.390	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.348f	552332	19034295	33.742	645.910	#
37)		Toxaphene...	7.590	8.709	212444	840586	6.762	20.916	#
38)		Toxaphene...	7.916	8.774f	111316	877578	96752.355	13.565	#
39)		Toxaphene...	8.154	8.833	758697	320944	4.754	BelowCal	#
40)		Toxaphene...	8.378	8.972f	1838946	564011	33.927	9.838	#
41)		Toxaphene...	8.437	9.367	640147	3798338	8.417	57.504	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

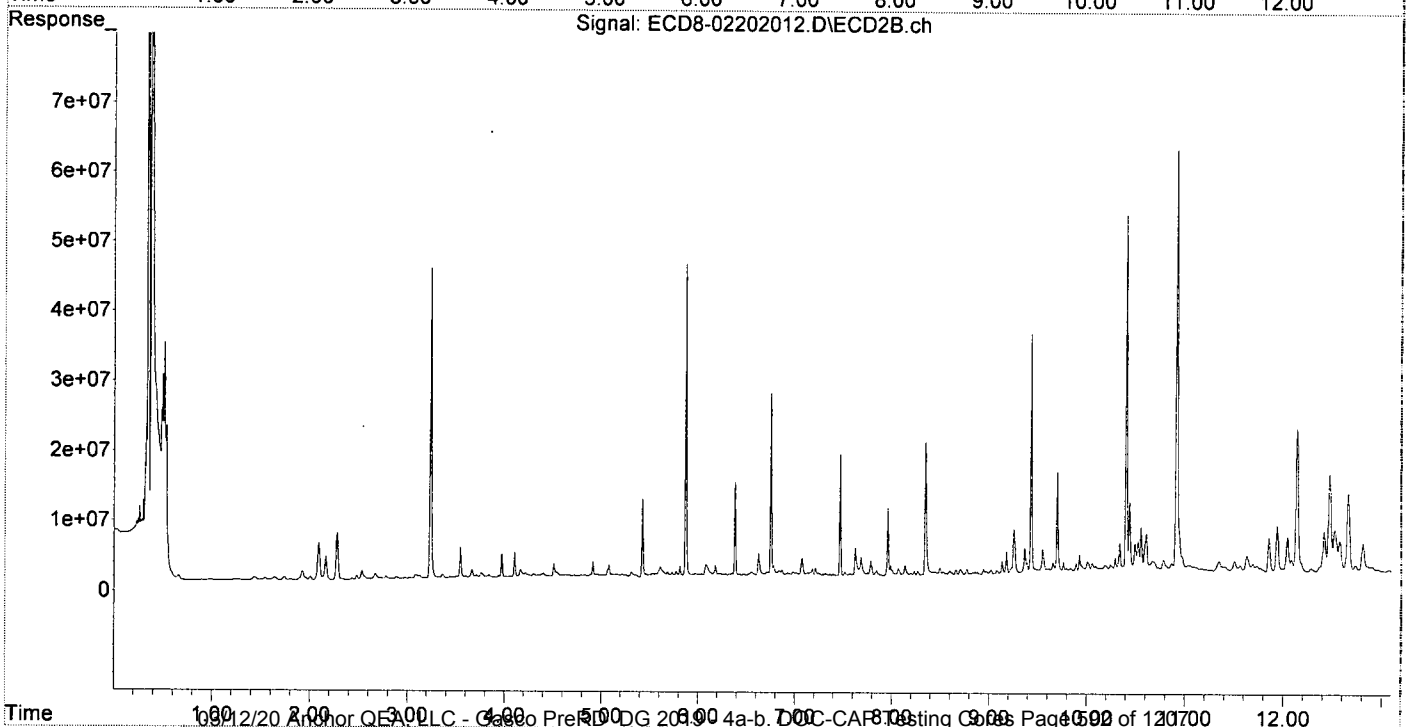
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 14:23
Operator : MJB
Sample : A0A1011-03RE2@2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 15:26:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 16:28
Operator : MJB
Sample : 0B20033-CCV5
Misc : A19K134, AB 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 16:43:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 4/20/20

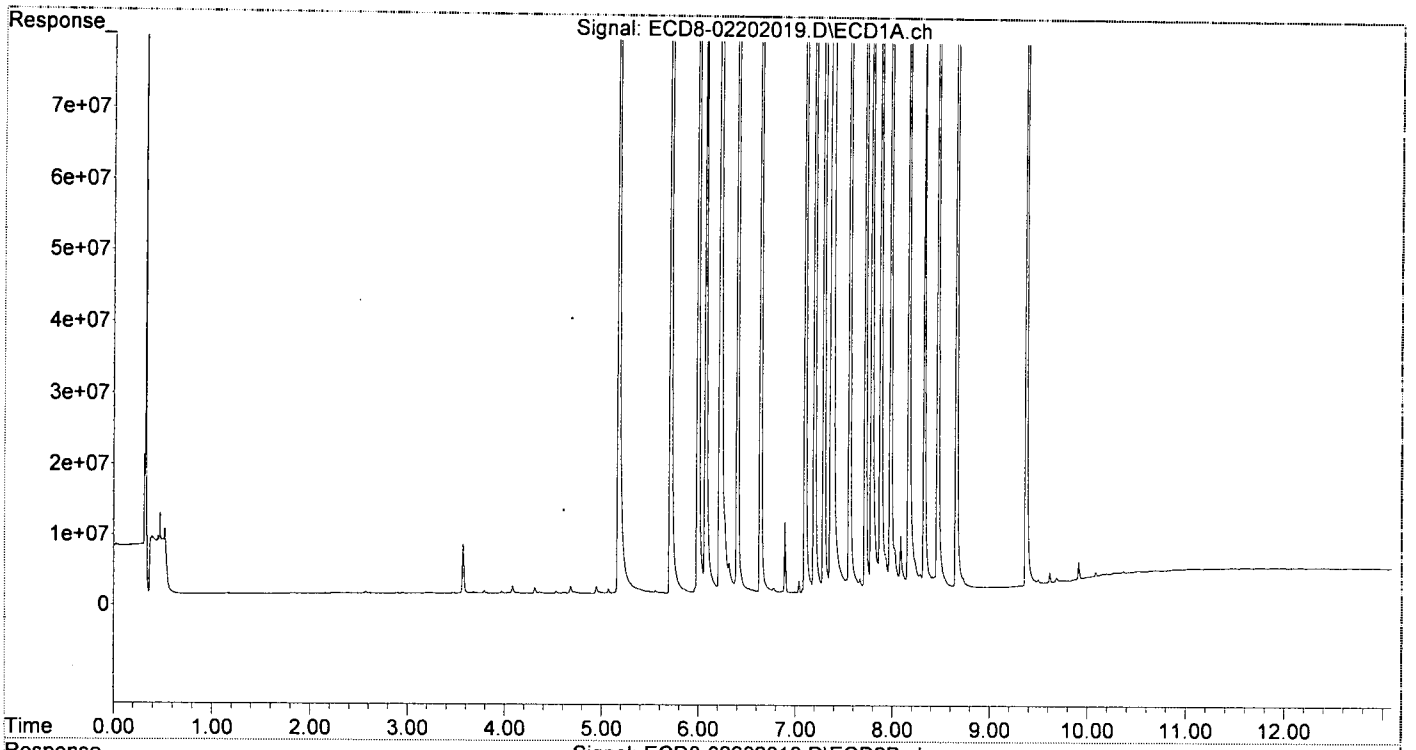
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.173	5.873	307.8E6	317.9E6	88.030	92.144	
22)	S	DCBP (S)	9.374	10.405	245.9E6	226.3E6	92.011	100.760	
		Target Compounds							
2)		a-BHC	5.710	6.475	465.8E6	489.7E6	98.589	96.719	
3)		g-BHC	5.992	6.793	406.6E6	426.7E6	97.669	95.141	
4)		b-BHC	6.071	6.859	138.5E6	160.2E6	79.506	92.274	
5)		Heptachlor	6.401	7.163	412.8E6	414.3E6	100.451	98.399	Q-31
6)		d-BHC	6.220	7.113	290.8E6	369.0E6	76.982	88.878	
7)		Aldrin	6.640	7.428	409.9E6	422.7E6	101.446	98.556	
8)		Heptachlo...	7.100	7.866	358.7E6	365.1E6	97.147	101.716	
9)		trans-Chl...	7.197	8.006	366.4E6	390.6E6	97.421	105.054	
10)		cis-Chlor...	7.293	8.113	365.3E6	363.0E6	99.473	103.057	
11)		Endosulfa...	7.386	8.163	358.5E6	332.9E6	103.345	100.734	
12)		4,4'-DDE	7.367	8.223	317.3E6	333.4E6	95.536	90.609	
13)		Dieldrin	7.559	8.363	385.9E6	401.6E6	101.208	100.168	
14)		Endrin	7.721	8.589	324.6E6	304.5E6	99.446	92.187	
15)		4,4'-DDD	7.786	8.638	224.7E6	252.6E6	88.290	87.579	
16)		Endosulfa...	7.878	8.738	272.9E6	295.6E6	91.234	95.491	
17)		4,4'-DDT	7.982	8.863	242.2E6	263.9E6	90.084	87.812	
18)		Endrin Al...	8.168	8.974	236.0E6	250.8E6	89.646	94.866	
19)		Endosulfa...	8.467	9.166	247.7E6	274.6E6	86.553	93.773	
20)		Methoxychlor	8.328	9.344	94210998	118.4E6	78.077	90.449	Q-31
21)		Endrin Ke...	8.659	9.563	315.9E6	313.1E6	91.400	94.447	
23)		Hexachlor...	2.952	3.564	54744	72386	0.014	0.015	
24)		Hexachlor...	5.556	6.334	414322	30247	0.123	BelowCal	#
25)		Oxychlordane	7.038	7.799	1735855	27752	0.386	0.009	#
26)		2,4'-DDE	7.100	8.006	358.7E6	390.6E6	155.161	171.856	
27)		trans-Non...	7.293	8.067	365.3E6	1272035	99.638	0.352	#
28)		2,4'-DDD	0.000	8.363	0	401.6E6	N.D.	209.803	#
29)		2,4'-DDT	7.667	8.589	1730153	304.5E6	0.723	116.937	#
30)		cis-Nonac...	7.786f	8.638	224.7E6	252.6E6	55.215	63.382	
31)		Mirex	8.415	9.563	1599296	313.1E6	0.454	140.490	#
32)		Chlordane...	7.197	8.006	366.4E6	390.6E6	914.792	899.088	
33)		Chlordane...	7.293	8.113	365.3E6	363.0E6	751.120	998.576	#
34)		Chlordane...	0.000	8.738f	0	295.6E6	N.D.	2488.801	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.293	8.363	365.3E6	401.6E6	22315.427	13628.609	#
37)		Toxaphene...	7.559f	8.738f	385.9E6	295.6E6	12285.181	7354.228	#
38)		Toxaphene...	7.927f	8.738	5120030	295.6E6	69.623	4568.393	#
39)		Toxaphene...	8.168	8.829	236.0E6	1794739	3503.726	14.464	#
40)		Toxaphene...	0.000	8.974f	0	250.8E6	N.D.	4374.725	#
41)		Toxaphene...	8.433	9.344f	1583794	118.4E6	20.825	1792.128	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

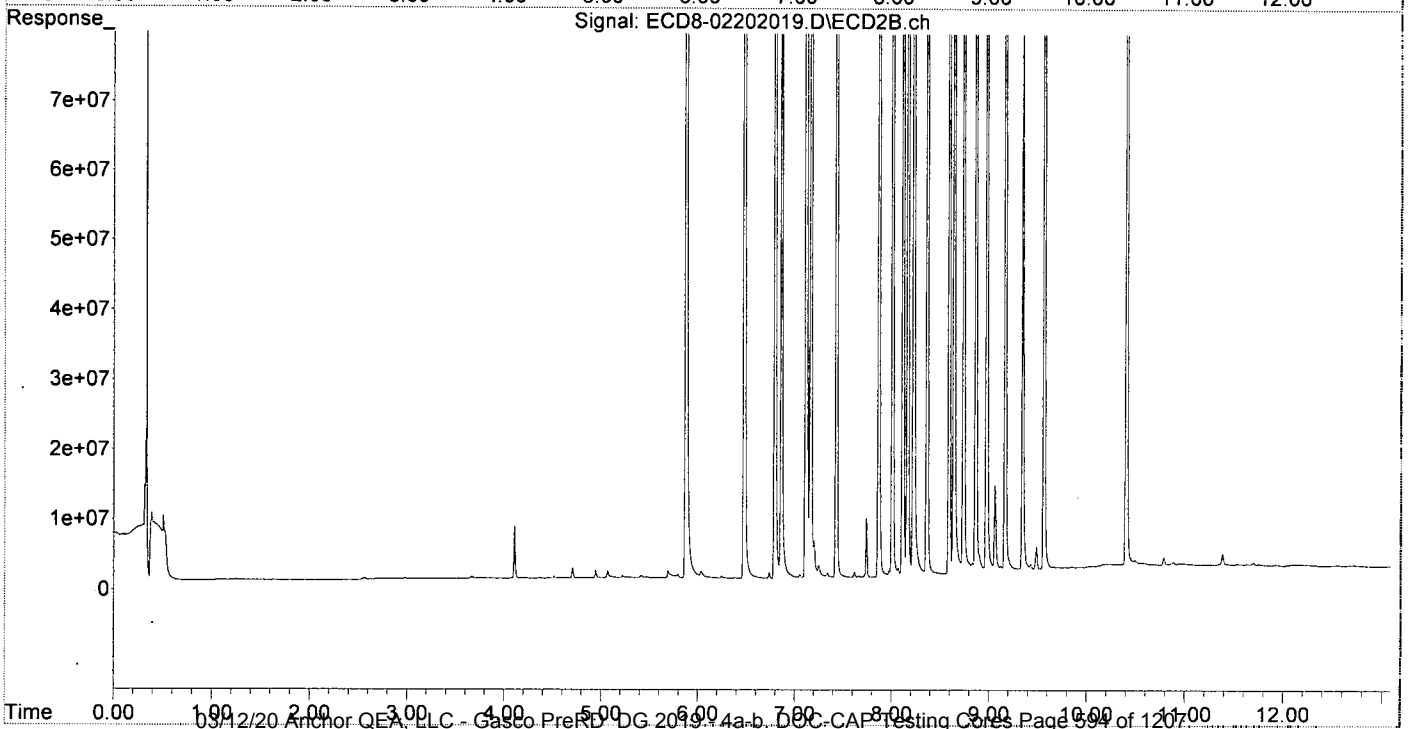
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 16:28
Operator : MJB
Sample : 0B20033-CCV5
Misc : A19K134, AB 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 16:43:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 16:45
Operator : MJB
Sample : 0B20033-CCV6
Misc : A19J409, 9-42 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:00:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/20/20

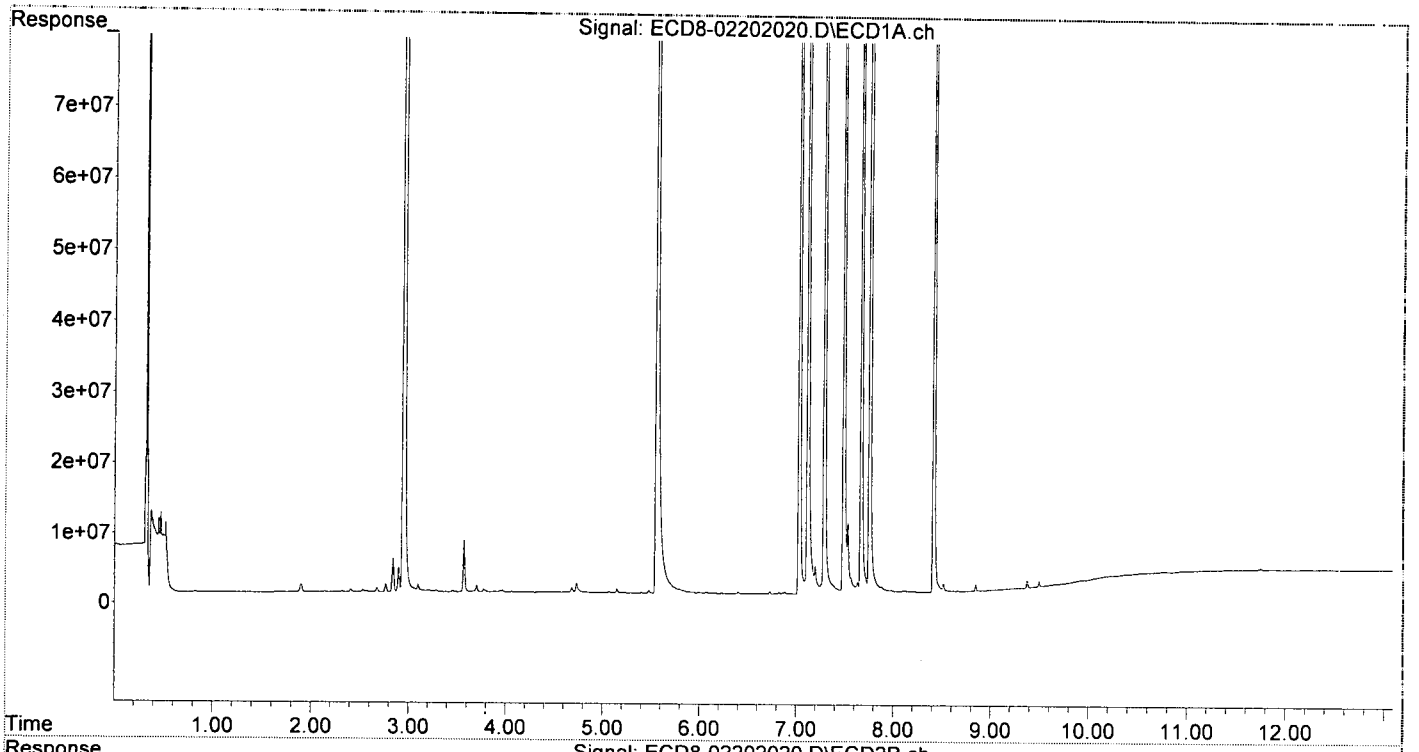
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.148f	5.878	640994	109449	0.183	0.032	#
22)	S	DCBP (S)	9.376	10.405	1226985	1848242	0.146	0.407	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	5.993	6.799	187280	55016	0.045	0.056	
4)		b-BHC	6.072	6.862	257400	110135	0.148	0.063	#
5)		Heptachlor	6.400	7.162	343508	264304	0.084	0.063	
6)		d-BHC	6.230	7.116	111923	65811	0.139	0.116	
7)		Aldrin	6.639	7.427	66638	45420	0.016	0.024	#
8)		Heptachlo...	7.115	7.863	214.9E6	1014276	58.193	0.283	#
9)		trans-Chl...	7.196	8.001	3958966	232.4E6	1.053	62.513	#
10)		cis-Chlor...	7.287	0.000	375.5E6	0	102.266	N.D.	#
11)		Endosulfa...	0.000	8.159	0	649265	N.D.	0.196	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	7.532f	8.373	10043102	191.9E6	2.634	51.057	#
14)		Endrin	7.755f	8.596	411.6E6	225.9E6	126.104	70.554	#
15)		4,4'-DDD	7.755f	8.634	411.6E6	418.1E6	161.713	132.103	
16)		Endosulfa...	7.881	8.738	893113	602208	0.299	0.198	#
17)		4,4'-DDT	7.983	8.863	342981	365744	0.128	0.124	
18)		Endrin Al...	8.173	8.977	180141	254221	0.068	0.096	#
19)		Endosulfa...	0.000	9.168	0	234419	N.D.	0.005	#
20)		Methoxychlor	8.339	9.347	16814	336729	0.014	BelowCal	#
21)		Endrin Ke...	8.663	9.553	103322	252.3E6	0.030	78.076	#
23)		Hexachlor...	2.949	3.570	392.8E6	496.8E6	100.761	102.603	
24)		Hexachlor...	5.554	6.338	285.7E6	314.5E6	84.981	93.773	
25)		Oxychlordane	7.029	7.794	323.6E6	330.2E6	103.601	103.240	
26)		2,4'-DDE	7.115	8.001	214.9E6	232.4E6	92.945	102.264	
27)		trans-Non...	7.287	8.068	375.5E6	358.7E6	102.435	99.378	
28)		2,4'-DDD	7.486	8.373	175.4E6	191.9E6	90.571	100.233	
29)		2,4'-DDT	7.667	8.596	229.3E6	225.9E6	95.820	90.478	
30)		cis-Nonac...	7.755	8.634	411.6E6	418.1E6	101.133	104.924	
31)		Mirex	8.416	9.553	250.5E6	252.3E6	104.569	114.638	
32)		Chlordane...	7.196	8.001	3958966	232.4E6	9.886	535.006	#
33)		Chlordane...	7.287	0.000	375.5E6	0	772.209	N.D.	#
34)		Chlordane...	0.000	8.795f	0	597218	N.D.	5.029	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.287	8.373	375.5E6	191.9E6	22941.989	6511.061	#
37)		Toxaphene...	7.634f	8.718	1594458	727665	50.754	18.106	#
38)		Toxaphene...	7.881f	8.738	893113	602208	9.528	9.308	
39)		Toxaphene...	8.173f	8.795f	180141	597218	BelowCal	2.026	
40)		Toxaphene...	8.377	8.977f	8064	254221	0.149	4.434	#
41)		Toxaphene...	8.416f	9.367	250.5E6	341847	3294.159	5.175	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

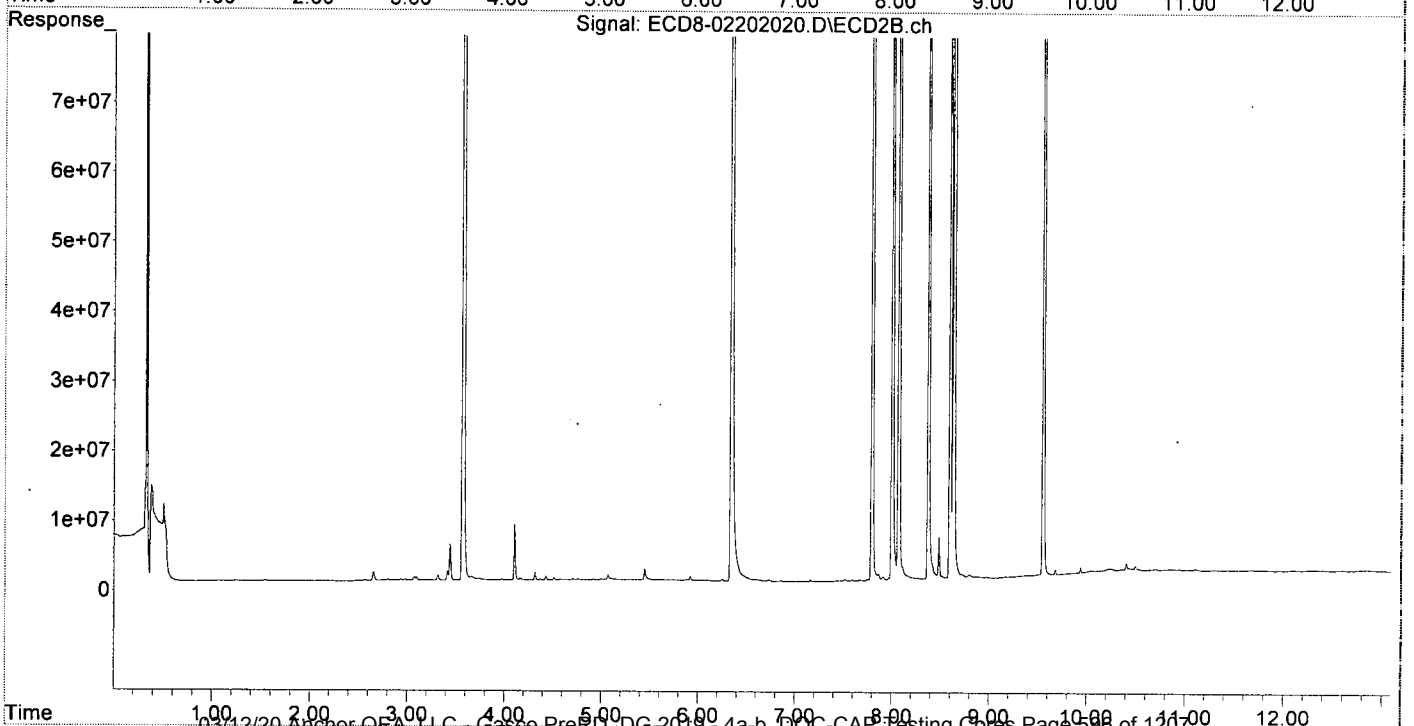
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 16:45
Operator : MJB
Sample : 0B20033-CCV6
Misc : A19J409, 9-42 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:00:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:02
Operator : MJB
Sample : 0B20033-CCV7
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:17:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 3/20/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.170	5.880	243001	154970	0.070	0.045	#
22)	S	DCBP (S)	9.377	10.418	584979	908683	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.697	6.501f	171607	6802776	0.036	1.665	#
3)		g-BHC	6.011	6.800	491503	3573226	0.118	0.956	#
4)		b-BHC	6.070	6.863	963360	311714	0.553	0.180	#
5)		Heptachlor	6.402	7.163	186.0E6	171.9E6	45.251	40.828	
6)		d-BHC	6.215	7.098	1897901	1148928	0.656	0.425	#
7)		Aldrin	6.642	7.433	2451620	1746391	0.607	0.479	
8)		Heptachlo...	7.112	7.885	31547662	8897444	8.543	2.479	#
9)		trans-Chl...	7.197	8.006	389.4E6	436.8E6	103.540	117.476	
10)		cis-Chlor...	7.291	8.113	528.8E6	376.1E6	143.987	106.759	#
11)		Endosulfa...	7.368	8.182	7491888	6368087	2.160	1.927	
12)		4,4'-DDE	7.368	8.233	7491888	9172215	2.256	3.019	#
13)		Dieldrin	7.576	8.363	12734810	38224197	3.340	10.784	#
14)		Endrin	7.715	8.586	7407024	8358215	2.270	2.890	#
15)		4,4'-DDD	7.811f	8.634	11703918	67989809	4.599	27.187	#
16)		Endosulfa...	7.889	8.749	8456046	7636850	2.827	2.853	
17)		4,4'-DDT	8.009f	8.873	24827920	3087733	9.236	1.231	#
18)		Endrin Al...	8.194f	9.003f	2482485	19914032	0.943	7.533	#
19)		Endosulfa...	8.476	9.146	5154435	951467	1.801	0.292	#
20)		Methoxychlor	8.320	9.343	2431331	704382	2.015	0.291	#
21)		Endrin Ke...	8.662	9.565	742651	4215841	0.215	1.270	#
23)		Hexachlor...	2.951	3.592f	52571	25731	0.013	0.005	#
24)		Hexachlor...	5.546	6.309f	95070	619394	0.028	0.161	#
25)		Oxychlordane	7.022	7.810	4142931	4983156	1.170	1.558	#
26)		2,4'-DDE	7.112	8.006	31547662	436.8E6	13.645	192.178	#
27)		trans-Non...	7.291	8.070	528.8E6	324.5E6	144.226	89.892	#
28)		2,4'-DDD	7.513f	8.363	45929802	38224197	23.714	19.968	
29)		2,4'-DDT	7.683	8.586	10811477	8358215	4.518	3.850	
30)		cis-Nonac...	7.756	8.634	65920235	67989809	16.199	17.060	
31)		Mirex	8.419	9.565	888412	4215841	0.160	1.784	#
32)		Chlordane...	7.197	8.006	389.4E6	436.8E6	972.254	1005.401	
33)		Chlordane...	7.291	8.113	528.8E6	376.1E6	1087.247	1034.443	
34)		Chlordane...	7.836	8.773	127.2E6	118.2E6	976.703	995.019	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.291	8.363	528.8E6	38224197	32301.610	1297.100	#
37)		Toxaphene...	7.615	8.724	30354758	9629950	966.237	239.617	#
38)		Toxaphene...	7.912	8.749	4836815	7636850	65.595	118.041	#
39)		Toxaphene...	8.138	8.826	7185700	6373303	103.729	61.811	#
40)		Toxaphene...	8.380	9.003	902434	19914032	16.649	347.363	#
41)		Toxaphene...	8.435	9.390	1078261	2016480	14.178	30.528	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

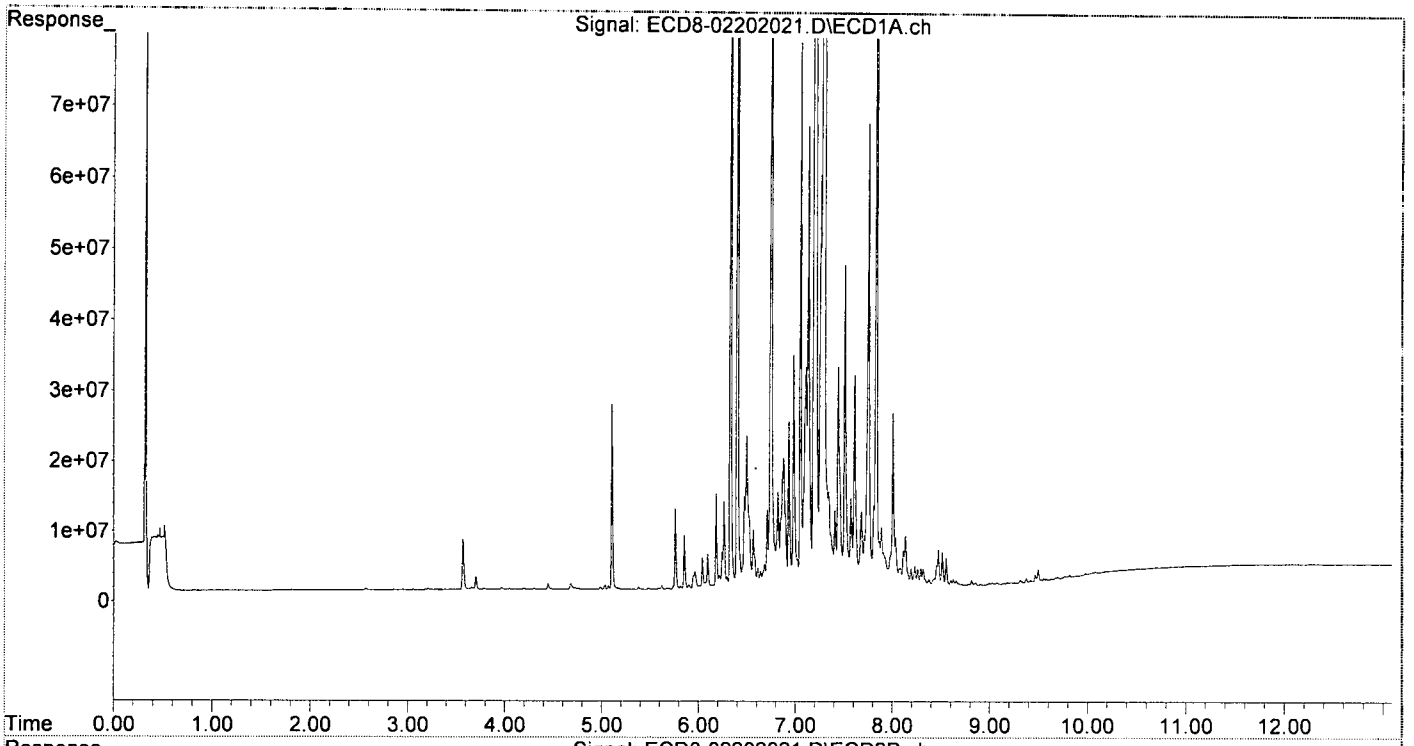
A B
1012.07 1011.62

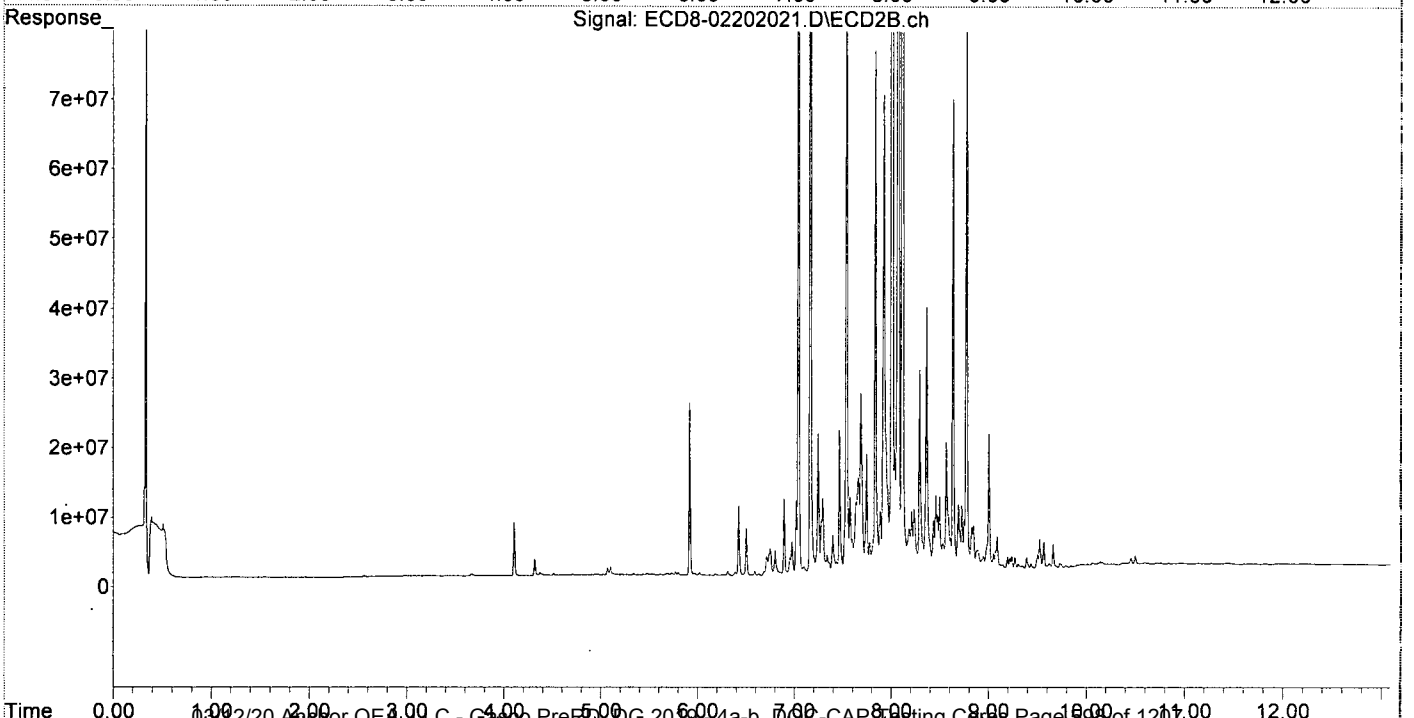
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:02
Operator : MJB
Sample : 0B20033-CCV7
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:17:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:19
Operator : MJB
Sample : 0B20033-CCB2
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:36:37 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 4/20/20

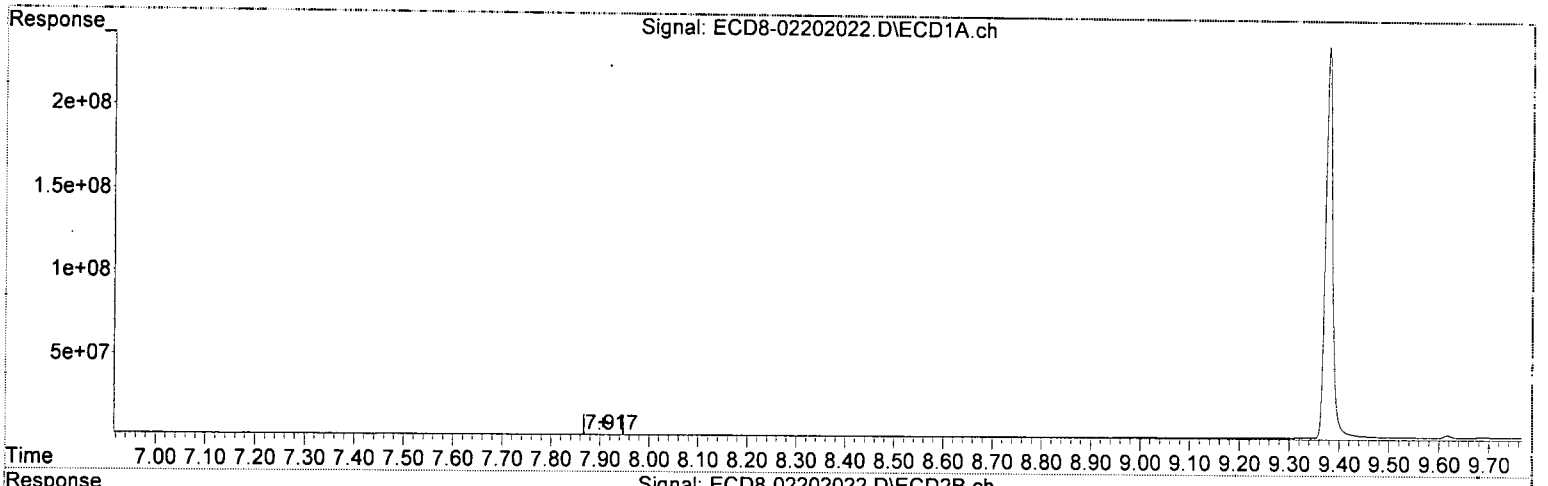
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.173	5.872	285.3E6	304.1E6	81.597	88.167	
22)	S	DCBP (S)	9.378	10.407	238.5E6	223.0E6	89.340	99.419	
		Target Compounds							
2)		a-BHC	5.742f	6.450f	16027	53513	0.003	0.088	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.082	6.864	98863	10565	0.057	0.006	#
5)		Heptachlor	0.000	7.181	0	17872	N.D.	0.004	#
6)		d-BHC	0.000	7.127	0	24237	N.D.	0.104	#
7)		Aldrin	6.660	7.460f	14353	143908	0.004	0.051	#
8)		Heptachlo...	0.000	7.871	0	19701	N.D.	0.005	#
9)		trans-Chl...	7.201	8.014	143518	58573	0.038	0.016	#
10)		cis-Chlor...	7.299	8.114	44809	19875	0.012	0.006	#
11)		Endosulfa...	0.000	8.166	0	9168	N.D.	0.003	#
12)		4,4'-DDE	0.000	8.214	0	4551	N.D.	0.090	#
13)		Dieldrin	7.562	8.370	14885	17072	0.004	0.037	#
14)		Endrin	7.689f	8.599	9372	79219	0.003	0.020	#
15)		4,4'-DDD	0.000	8.640	0	58239	N.D.	0.068	#
16)		Endosulfa...	7.889	8.724	155724	193053	0.052	0.043	
17)		4,4'-DDT	7.999	8.862	16286	57994	0.006	BelowCal	#
18)		Endrin Al...	8.168	8.982	131827	119992	0.050	0.045	
19)		Endosulfa...	8.471	9.172	38572	212048	0.013	BelowCal	#
20)		Methoxychlor	8.334	0.000	38164	0	0.032	N.D.	#
21)		Endrin Ke...	8.672	9.574	25951	581997	0.008	BelowCal	#
23)		Hexachlor...	2.951	3.592f	53172	51040	0.014	0.011	
24)		Hexachlor...	5.557	6.332	250571	85187	0.075	BelowCal	#
25)		Oxychlordane	7.047	7.801	128376	35028	BelowCal	0.011	
26)		2,4'-DDE	0.000	8.014	0	58573	N.D.	0.026	#
27)		trans-Non...	7.299	8.071	44809	18359	0.012	0.005	#
28)		2,4'-DDD	7.462f	8.370	8222	17072	0.004	0.009	#
29)		2,4'-DDT	7.689f	8.599	9372	79219	0.004	BelowCal	#
30)		cis-Nonac...	0.000	8.635	0	62812	N.D.	0.016	#
31)		Mirex	8.419	9.542	27330	255319	8199.118	BelowCal	#
32)		Chlordane...	7.201	8.014	143518	58573	0.358	0.135	#
33)		Chlordane...	7.299	8.114	44809	19875	0.092	0.055	#
34)		Chlordane...	7.851	8.801f	9818	339182	0.075	2.856	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.299	8.370	44809	17072	2.737	0.579	#
37)		Toxaphene...	7.562f	8.724	14885	193053	0.474	4.804	#
38)		Toxaphene...	7.918	8.724f	34204	193053	~~96753.451~~ QDel	2.984	#
39)		Toxaphene...	8.147	8.801	155759	339182	BelowCal	BelowCal	
40)		Toxaphene...	8.375	9.003	32913	102817	0.607	1.793	#
41)		Toxaphene...	8.441	0.000	23884	0	0.314	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

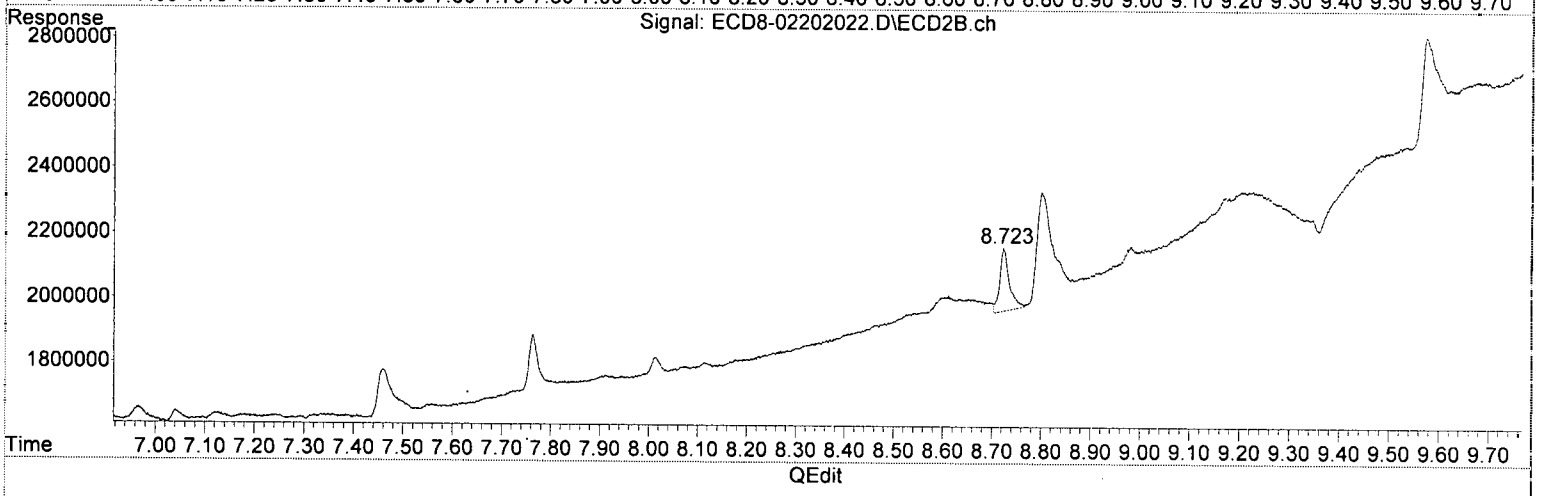
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:19
Operator : MJB
Sample : 0B20033-CCB2
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:36:37 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.918min 96753.451 ng/mL

response 34204

NB 2/20/20

(38) Toxaphene (3) #2

8.724min 2.984 ng/mL

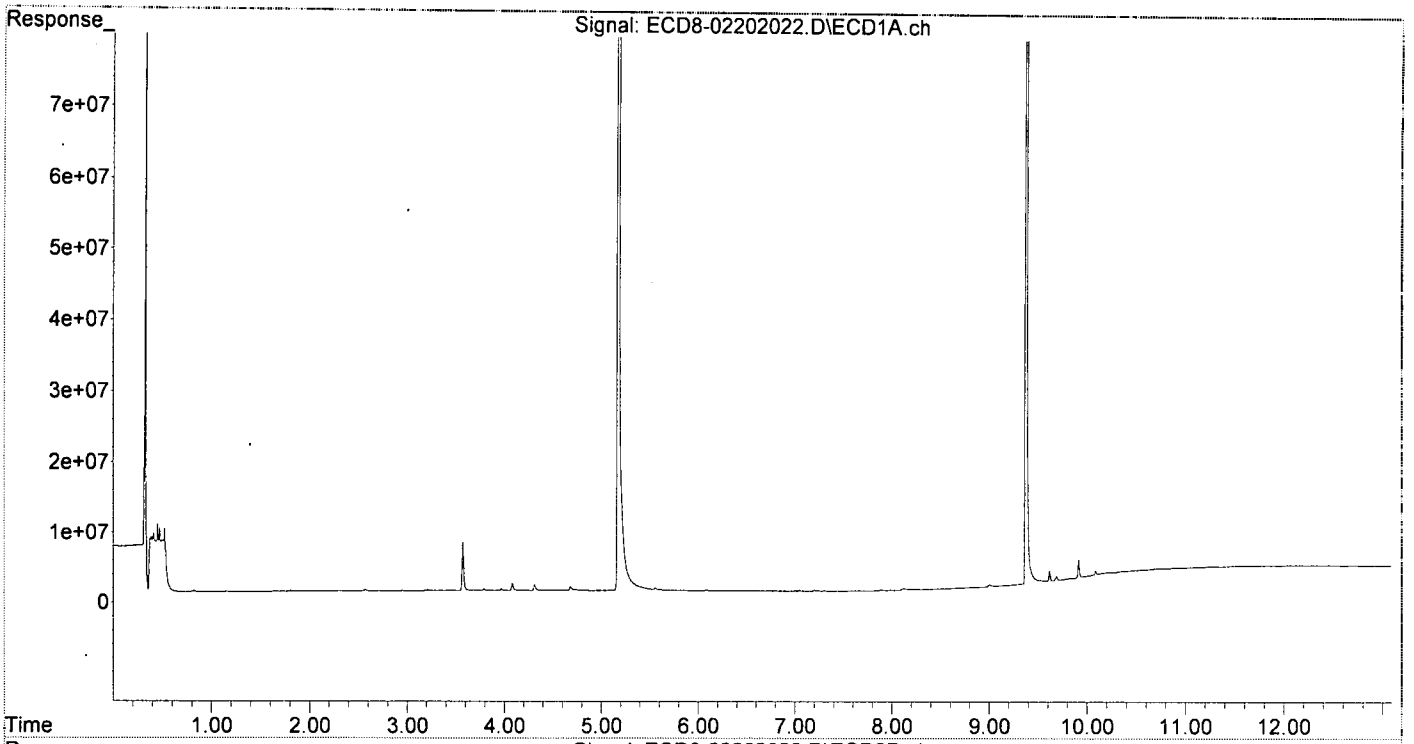
response 193053

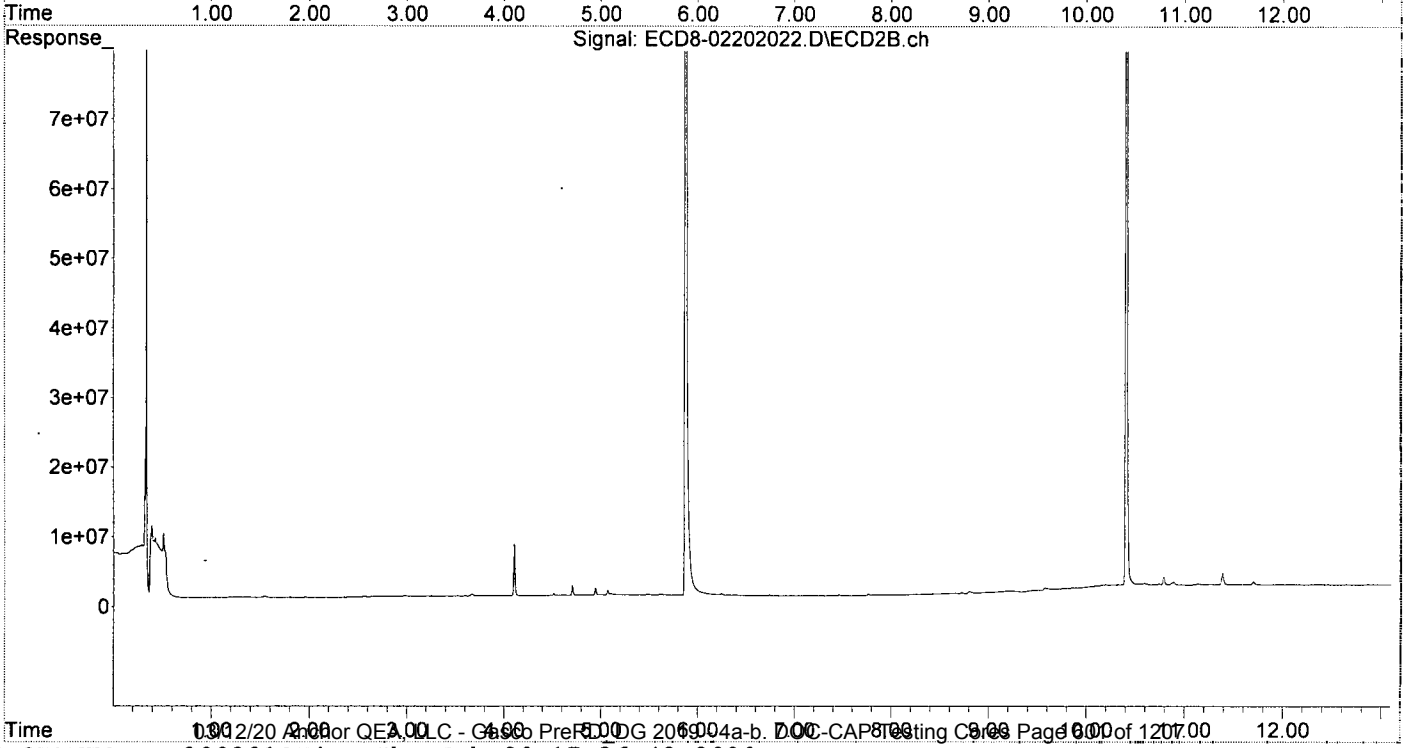
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:19
Operator : MJB
Sample : 0B20033-CCB2
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 20 17:36:37 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/12.

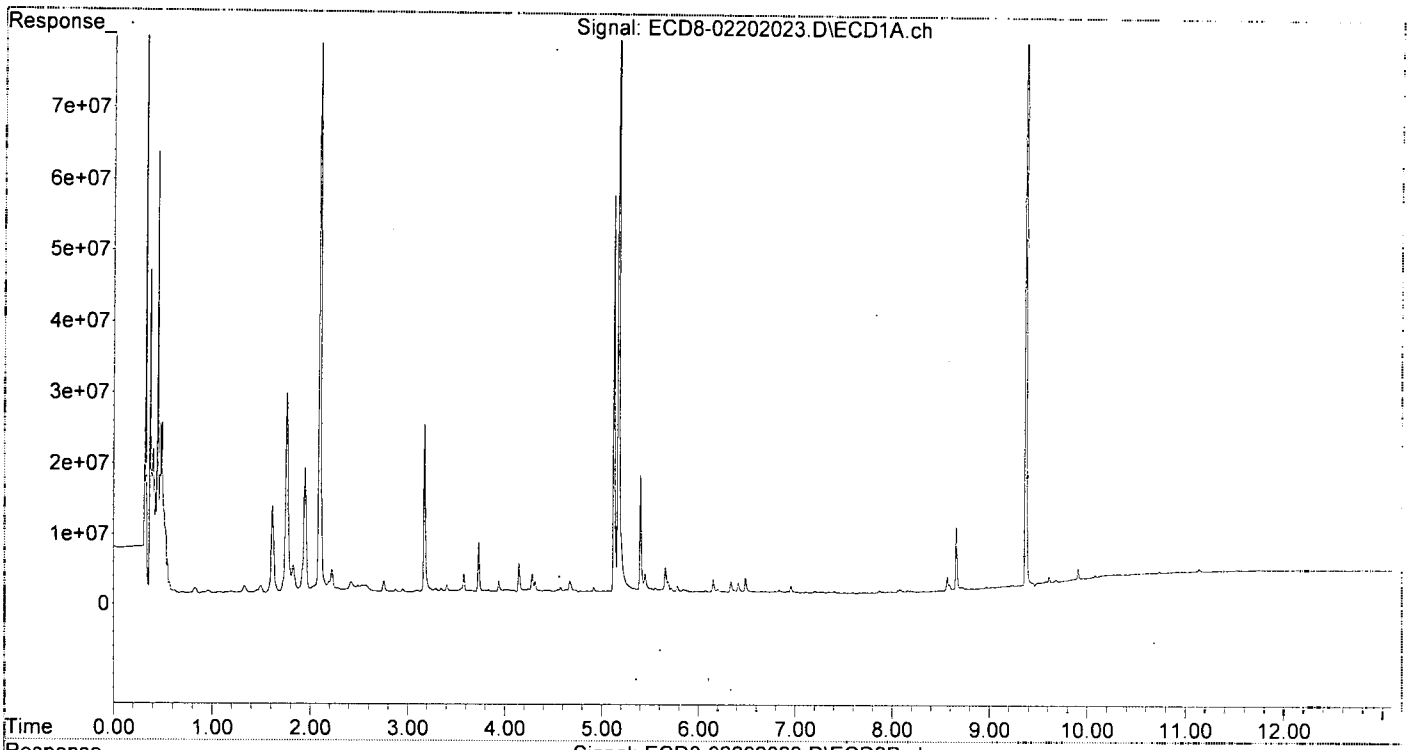
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.174	5.872	120.9E6	119.2E6	34.579	34.553
22)	S	DCBP (S)	9.373	10.404	133.5E6	110.7E6	50.728	51.518
		Target Compounds						
2)		a-BHC	5.720	0.000	2066392	0	0.437	N.D. #
3)		g-BHC	5.993	6.784	1616104	1025858	0.388	0.305m
4)		b-BHC	6.074	6.846	1741456	402421	1.000	0.232 #
5)		Heptachlor	6.412	7.165	2955914	53624	0.719	0.013 #
6)		d-BHC	6.200f	7.137f	1959563	102178	0.673	0.127 #
7)		Aldrin	6.656	7.415	1804034	67391	0.446	0.030m#
8)		Heptachlo...	7.113	7.849	1779177	865393	0.482	0.241 #
9)		trans-Chl...	7.205	8.004	2012946	110502	0.535	0.030 #
10)		cis-Chlor...	7.287	8.114	1872987	120060	0.510	0.034 #
11)		Endosulfa...	7.403	8.143f	2001227	445430	0.577	0.135 #
12)		4,4'-DDE	7.343f	8.236	1845357	315684	0.556	0.190 #
13)		Dieldrin	7.558	8.363	1820921	31300	0.478	0.041 #
14)		Endrin	7.706	8.596	1891315	50414	0.580	0.010 #
15)		4,4'-DDD	7.797	8.634	1885858	50904	0.741	0.065 #
16)		Endosulfa...	7.867	8.728	2195635	165642	0.734	0.032 #
17)		4,4'-DDT	7.993	8.858	2113681	268088	0.786	0.084 #
18)		Endrin Al...	8.162	8.973	2389435	86555	0.908	0.033 #
19)		Endosulfa...	8.472	9.162	2348105	182243	0.820	BelowCal #
20)		Methoxychlor	8.324	9.343	2233739	361605	1.851	BelowCal #
21)		Endrin Ke...	8.661	9.571	11602851	1165826	3.357	0.191 #
23)		Hexachlor...	2.949	3.563	1172265	2385854	0.301	0.493m#
24)		Hexachlor...	5.557	6.357	1960079	914957	0.583	0.264 #
25)		Oxychlordane	7.027	7.795	1790622	90745	0.403	0.028 #
26)		2,4'-DDE	7.113	8.004	1779177	110502	0.770	0.049 #
27)		trans-Non...	7.287	8.071	1872987	83113	0.511	0.023 #
28)		2,4'-DDD	7.511f	8.363	1824042	31300	0.942	0.016 #
29)		2,4'-DDT	7.668	8.596	1861789	50414	0.778	BelowCal #
30)		cis-Nonac...	7.748	8.634	1854986	50904	0.456	0.013 #
31)		Mirex	8.430	9.571	2321097	1165826	0.752	0.311 #
32)		Chlordane...	7.205	8.004	2012946	110502	5.026	0.254 #
33)		Chlordane...	7.287	8.114	1872987	120060	3.851	0.330 #
34)		Chlordane...	7.867f	8.783	2195635	631435	16.864	5.317 #
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)		Toxaphene...	7.287	8.363	1872987	31300	114.420	1.062 #
37)		Toxaphene...	7.586	8.728	1822762	165642	58.021	4.122 #
38)		Toxaphene...	7.915	8.752	2038961	47121	25.812	0.728 #
39)		Toxaphene...	8.162	8.823	2389435	123440	29.887	BelowCal #
40)		Toxaphene...	8.369	9.017f	2222438	60280	41.003	1.051 #
41)		Toxaphene...	8.430	9.376	2321097	2480686	30.519	37.556
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

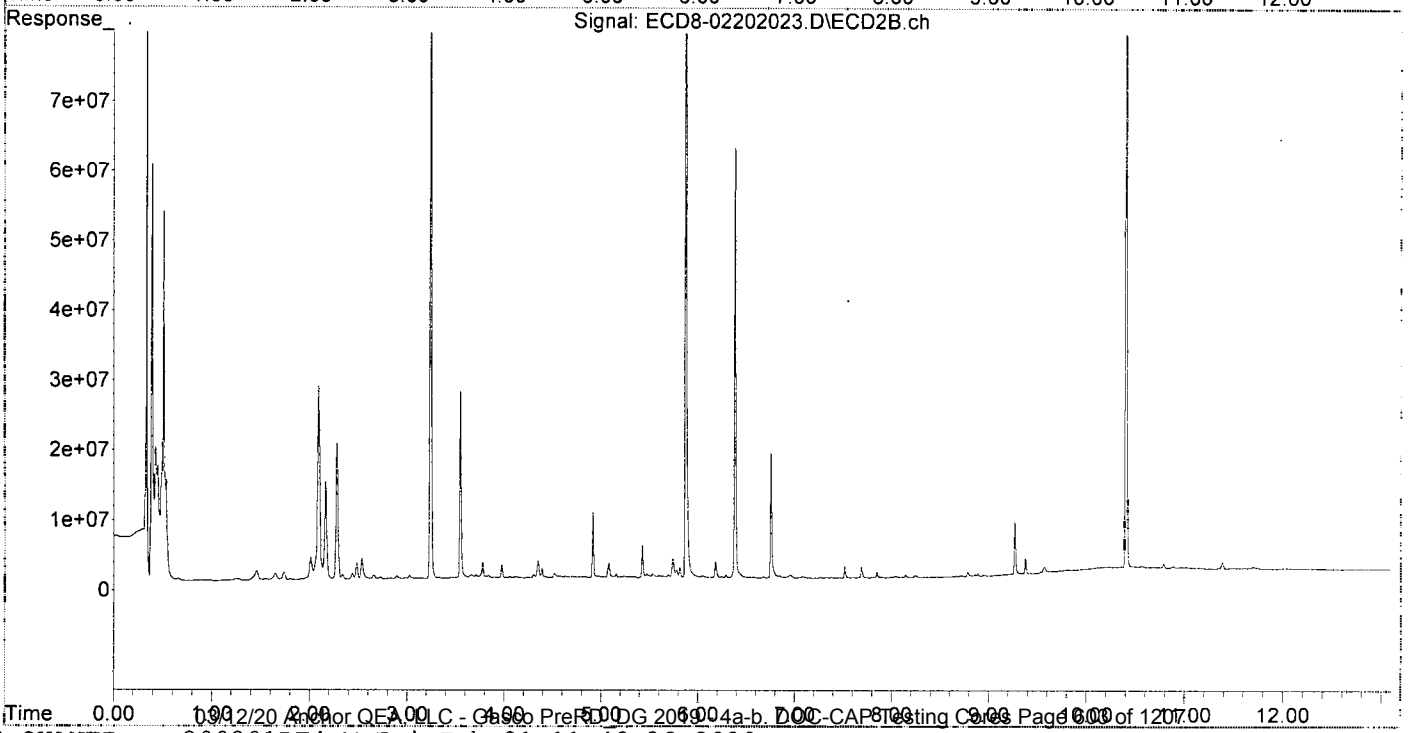
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

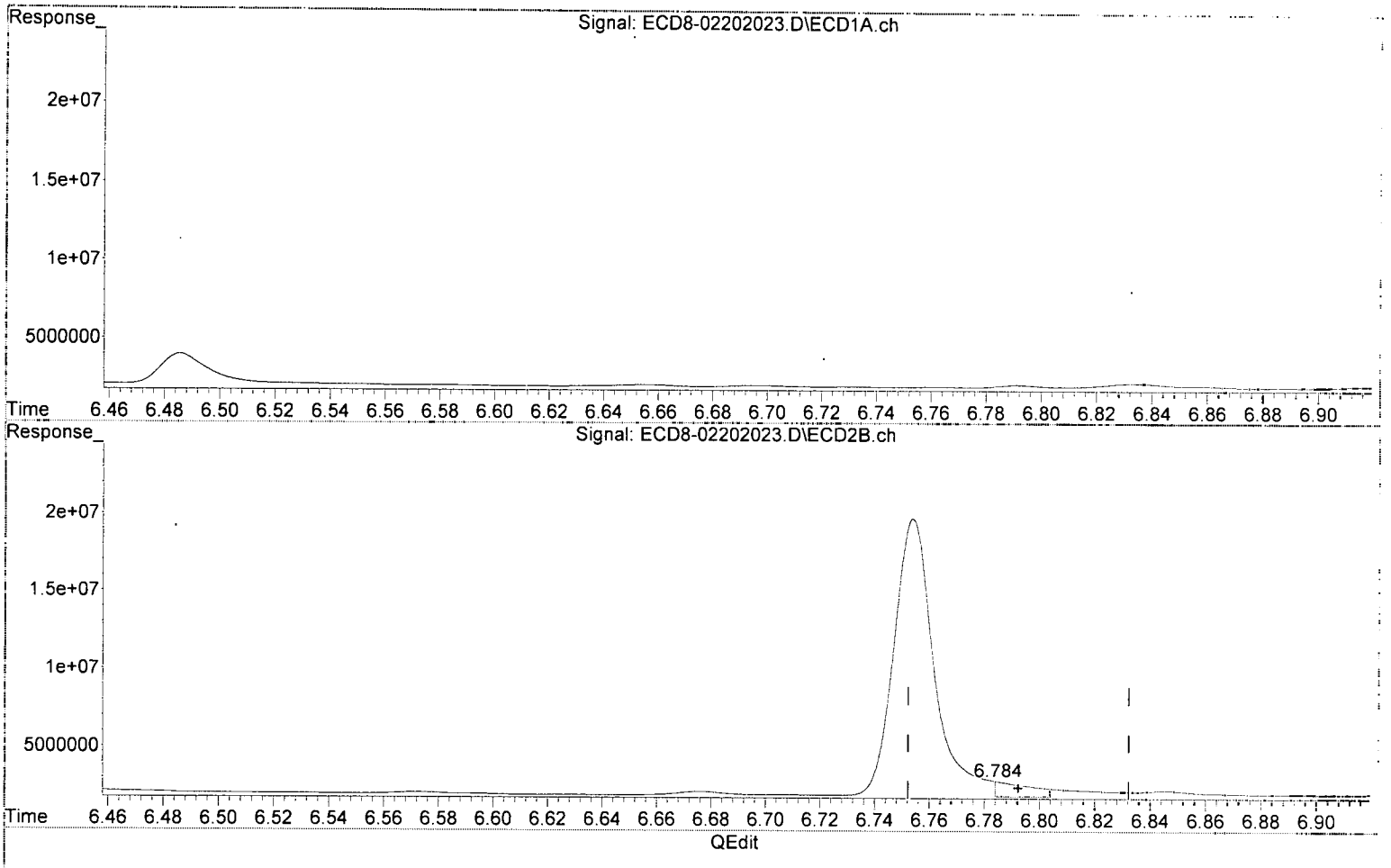




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(3) g-BHC

5.993min 0.388 ng/mL

response 1616104

MJB 2/21/20

(3) g-BHC #2

6.784min 0.305 ng/mL

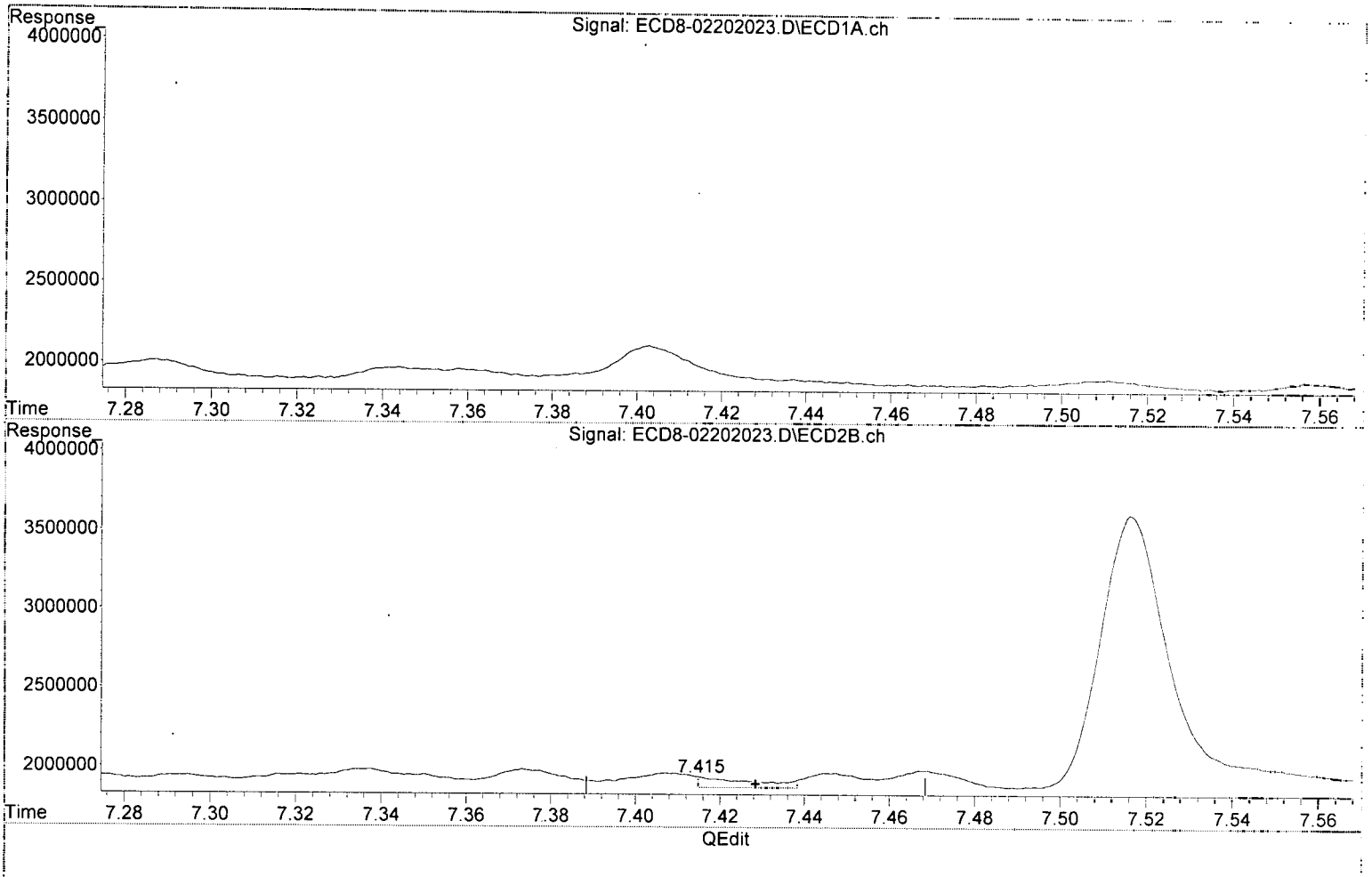
response 1025858

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(7) Aldrin

6.656min 0.446 ng/mL

response 1804034

MJB 2/21/20

(7) Aldrin #2

7.415min 0.030 ng/mL (m)

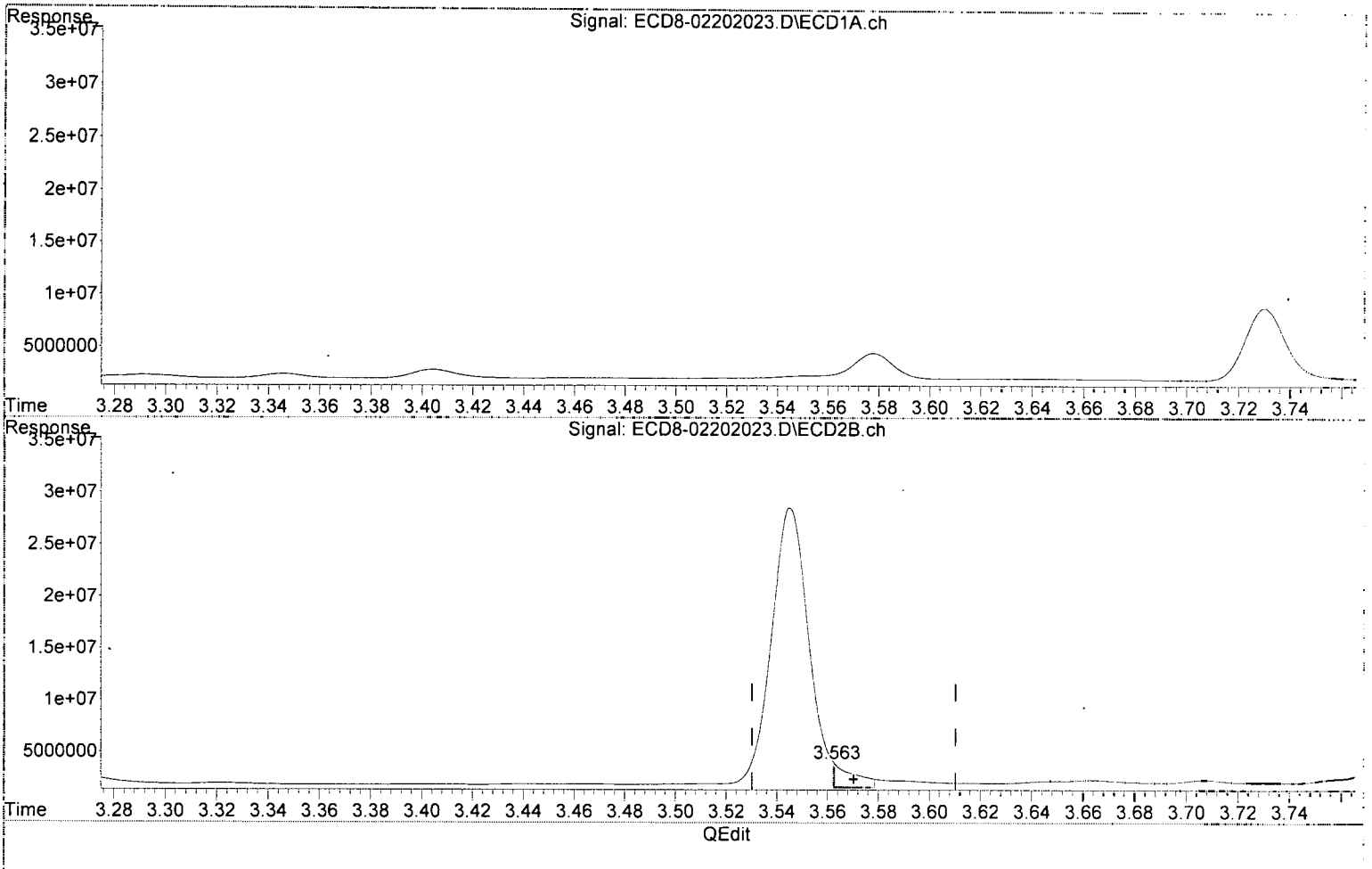
response 67391

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(23) Hexachlorobutadiene

2.949min 0.301 ng/mL

response 1172265

MJB 2/21/20

(23) Hexachlorobutadiene #2

3.563min 0.493 ng/mL m

response 2385854

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJP 2/21/20

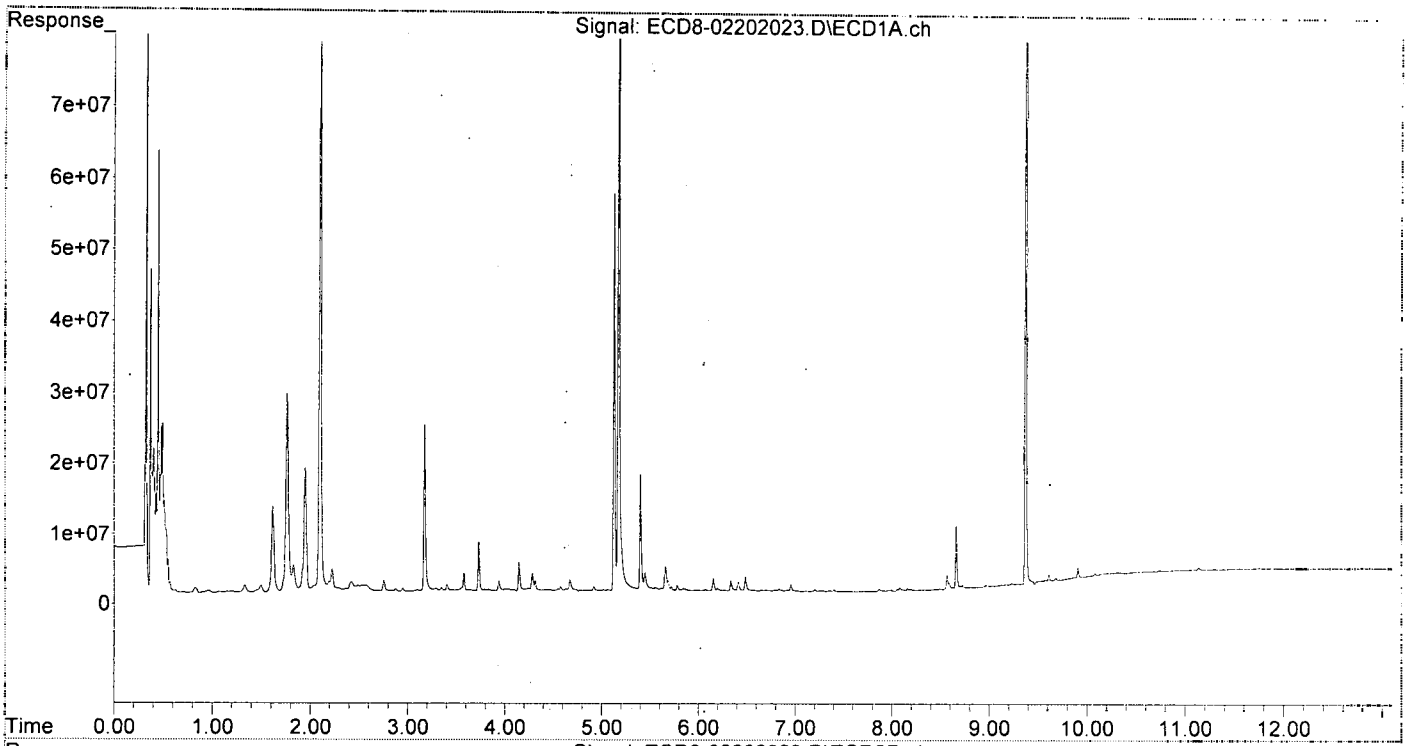
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.174	5.872	120.9E6	119.2E6	34.579	34.553	
22)	S	DCBP (S)	9.373	10.404	133.5E6	110.7E6	50.728	51.518	
		Target Compounds							
2)		a-BHC	5.720	0.000	2066392	0	0.437	N.D.	#
3)		g-BHC	5.993	6.754f	1616104	17921108	0.388	4.602	#
4)		b-BHC	6.074	6.846	1741456	402421	1.000	0.232	#
5)		Heptachlor	6.412	7.165	2955914	53624	0.719	0.013	#
6)		d-BHC	6.200f	7.137f	1959563	102178	0.673	0.127	#
7)		Aldrin	6.656	7.445	1804034	93294	0.446	0.037	#
8)		Heptachlo...	7.113	7.849	1779177	865393	0.482	0.241	#
9)		trans-Chl...	7.205	8.004	2012946	110502	0.535	0.030	#
10)		cis-Chlor...	7.287	8.114	1872987	120060	0.510	0.034	#
11)		Endosulfa...	7.403	8.143f	2001227	445430	0.577	0.135	#
12)		4,4'-DDE	7.343f	8.236	1845357	315684	0.556	0.190	#
13)		Dieldrin	7.558	8.363	1820921	31300	0.478	0.041	#
14)		Endrin	7.706	8.596	1891315	50414	0.580	0.010	#
15)		4,4'-DDD	7.797	8.634	1885858	50904	0.741	0.065	#
16)		Endosulfa...	7.867	8.728	2195635	165642	0.734	0.032	#
17)		4,4'-DDT	7.993	8.858	2113681	268088	0.786	0.084	#
18)		Endrin Al...	8.162	8.973	2389435	86555	0.908	0.033	#
19)		Endosulfa...	8.472	9.162	2348105	182243	0.820	BelowCal	#
20)		Methoxychlor	8.324	9.343	2233739	361605	1.851	BelowCal	#
21)		Endrin Ke...	8.661	9.571	11602851	1165826	3.357	0.191	#
23)		Hexachlor...	2.949	3.545f	1172265	27023920	0.301	5.581	#
24)		Hexachlor...	5.557	6.357	1960079	914957	0.583	0.264	#
25)		Oxychlordane	7.027	7.795	1790622	90745	0.403	0.028	#
26)		2,4'-DDE	7.113	8.004	1779177	110502	0.770	0.049	#
27)		trans-Non...	7.287	8.071	1872987	83113	0.511	0.023	#
28)		2,4'-DDD	7.511f	8.363	1824042	31300	0.942	0.016	#
29)		2,4'-DDT	7.668	8.596	1861789	50414	0.778	BelowCal	#
30)		cis-Nonac...	7.748	8.634	1854986	50904	0.456	0.013	#
31)		Mirex	8.430	9.571	2321097	1165826	0.752	0.311	#
32)		Chlordane...	7.205	8.004	2012946	110502	5.026	0.254	#
33)		Chlordane...	7.287	8.114	1872987	120060	3.851	0.330	#
34)		Chlordane...	7.867f	8.783	2195635	631435	16.864	5.317	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.287	8.363	1872987	31300	114.420	1.062	#
37)		Toxaphene...	7.586	8.728	1822762	165642	58.021	4.122	#
38)		Toxaphene...	7.915	8.752	2038961	47121	25.812	0.728	#
39)		Toxaphene...	8.162	8.823	2389435	123440	29.887	BelowCal	#
40)		Toxaphene...	8.369	9.017f	2222438	60280	41.003	1.051	#
41)		Toxaphene...	8.430	9.376	2321097	2480686	30.519	37.556	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

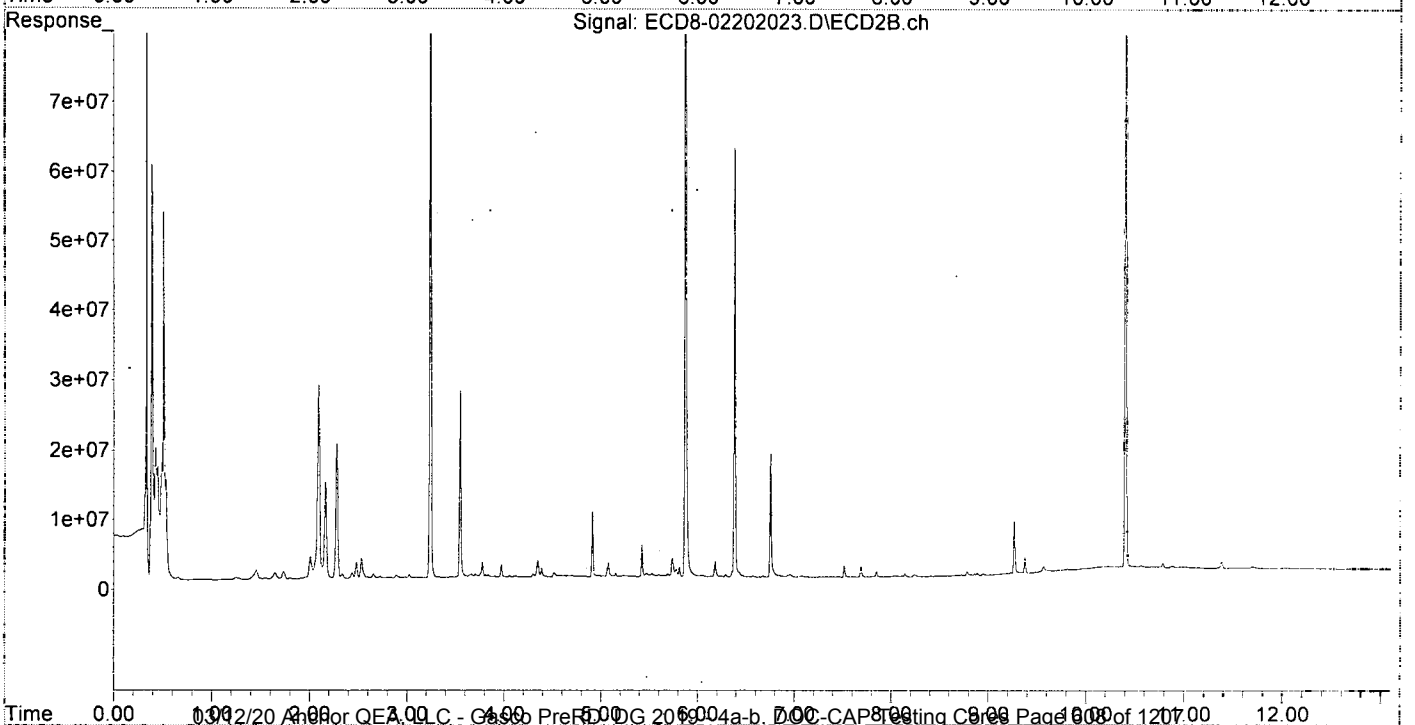
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:36
Operator : MJB
Sample : 0020315-BLK1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:55
Operator : MJB
Sample : 0020315-BS1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

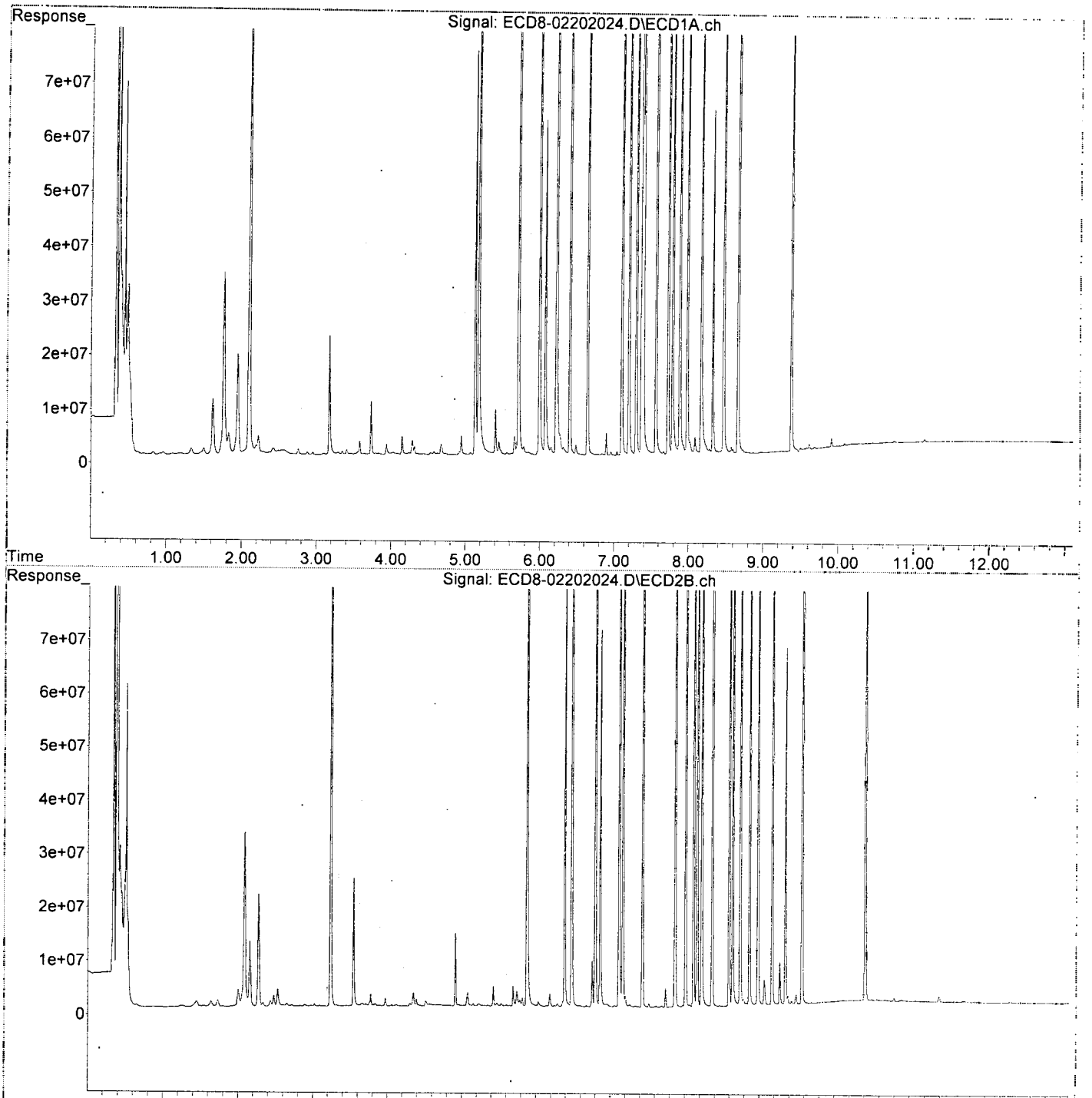
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.173	5.871	122.1E6	123.8E6	34.916	35.879	
22)	S	DCBP (S)	9.375	10.405	138.6E6	118.1E6	52.641	54.799	
		Target Compounds							
2)		a-BHC	5.710	6.473	187.6E6	196.1E6	39.705	42.531	
3)		g-BHC	5.992	6.791	164.4E6	174.7E6	39.498	42.040	
4)		b-BHC	6.071	6.856	62166583	70640902	35.694	40.691	
5)		Heptachlor	6.401	7.162	163.4E6	159.6E6	39.753	37.913	
6)		d-BHC	6.219	7.110	140.2E6	162.6E6	38.845	42.719	
7)		Aldrin	6.640	7.427	171.0E6	159.2E6	42.328	40.160	
8)		Heptachlo...	7.100	7.864	164.0E6	164.0E6	44.417	45.693	
9)		trans-Chl...	7.196	8.005	165.1E6	165.8E6	43.912	44.589	
10)		cis-Chlor...	7.293	8.112	163.8E6	156.3E6	44.597	44.379	
11)		Endosulfa...	7.387	8.162	164.2E6	158.2E6	47.344	47.879	
12)		4,4'-DDE	7.364	8.221	145.9E6	156.6E6	43.938	46.113	
13)		Dieldrin	7.559	8.362	187.6E6	181.3E6	49.200	48.424	
14)		Endrin	7.722	8.588	160.2E6	148.3E6	49.084	47.889	
15)		4,4'-DDD	7.783	8.636	125.0E6	131.6E6	49.133	49.757	
16)		Endosulfa...	7.878	8.737	135.1E6	145.7E6	45.161	50.599	
17)		4,4'-DDT	7.980	8.862	138.3E6	133.9E6	51.456	48.578	
18)		Endrin Al...	8.168	8.974	117.6E6	122.2E6	44.664	46.240	
19)		Endosulfa...	8.468	9.165	129.1E6	135.8E6	45.123	49.743	
20)		Methoxychlor	8.324	9.341	63796574	67074059	52.871	55.194	
21)		Endrin Ke...	8.661	9.564	190.9E6	156.3E6	55.225	50.553	
23)		Hexachlor...	2.950	3.540f	436038	24112482	0.112	4.980	#
24)		Hexachlor...	5.557	6.355	526076	1157101	0.156	0.348	#
25)		Oxychlordane	7.038	7.794	761217	121056	0.068	0.038	#
26)		2,4'-DDE	7.100	8.005	164.0E6	165.8E6	70.941	72.942	
27)		trans-Non...	7.293	8.068	163.8E6	517327	44.671	0.143	#
28)		2,4'-DDD	0.000	8.362	0	181.3E6	N.D.	94.723	#
29)		2,4'-DDT	7.665	8.588	660205	148.3E6	0.276	62.226	#
30)		cis-Nonac...	7.783f	8.636	125.0E6	131.6E6	30.727	33.022	
31)		Mirex	8.408	9.564	438416	156.3E6	8198.948	72.492	#
32)		Chlordane...	7.196	8.005	165.1E6	165.8E6	412.340	381.607	
33)		Chlordane...	7.293	8.112	163.8E6	156.3E6	336.752	430.011	#
34)		Chlordane...	7.846	8.781	1215758	1480518	9.338	12.467	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.293	8.362	163.8E6	181.3E6	10004.741	6153.102	#
37)		Toxaphene...	7.559f	8.737f	187.6E6	145.7E6	5972.157	3626.001	#
38)		Toxaphene...	7.878f	8.737	135.1E6	145.7E6	1955.548	2252.446	
39)		Toxaphene...	8.168	8.824	117.6E6	705925	1773.142	3.156	#
40)		Toxaphene...	8.385	8.974f	592569	122.2E6	10.933	2132.358	#
41)		Toxaphene...	8.468f	9.376	129.1E6	1915780	1698.123	29.003	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 17:55
Operator : MJB
Sample : 0020315-BS1
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 18:12
Operator : MJB
Sample : 0020315-BS2
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

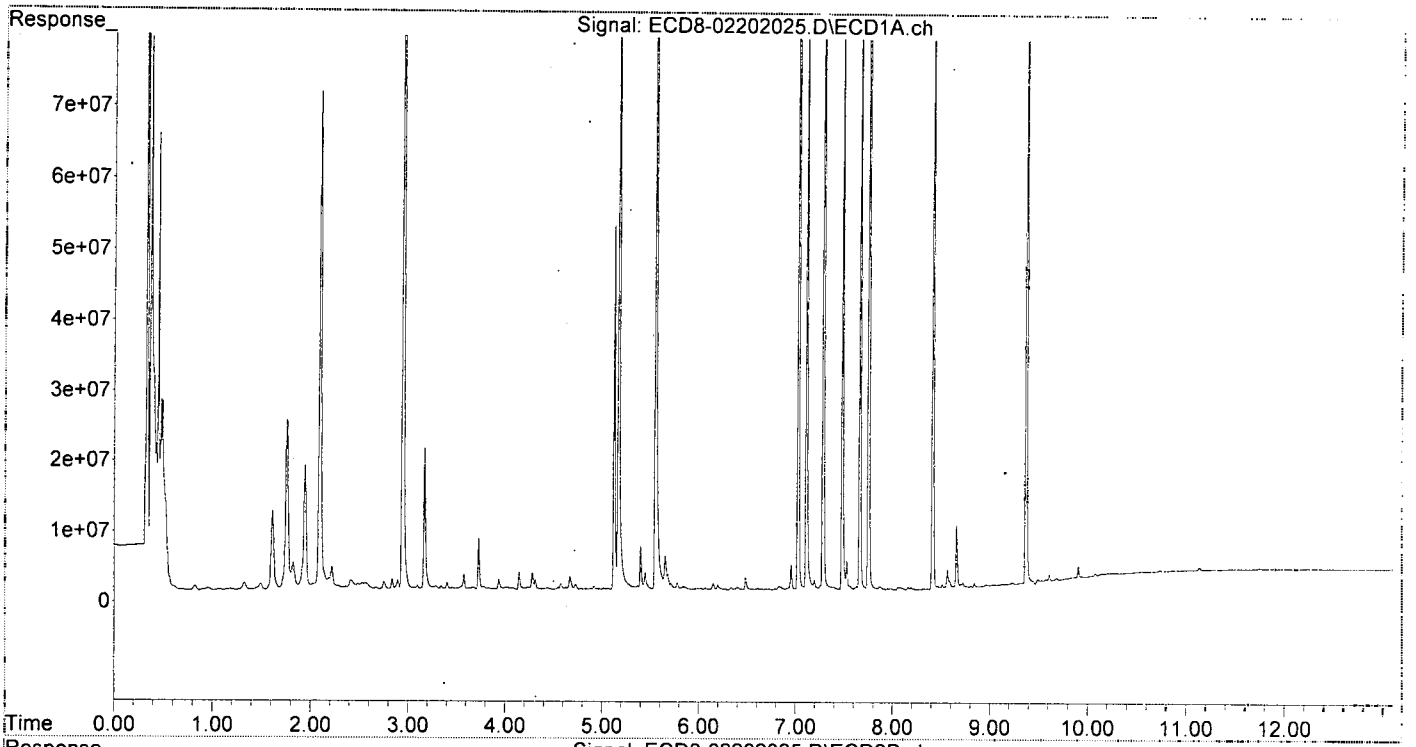
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.172	5.871	121.4E6	122.6E6	34.737	35.535	
22)	S	DCBP (S)	9.373	10.405	130.1E6	113.1E6	49.457	52.598	
		Target Compounds							
2)		a-BHC	5.716	0.000	936278	0	0.198	N.D.	#
3)		g-BHC	5.993	6.752f	163481	6394269	0.039	1.676	#
4)		b-BHC	6.071	6.846	290362	273658	0.167	0.158	
5)		Heptachlor	6.400	7.162	382367	184618	0.093	0.044	#
6)		d-BHC	6.199f	7.111	660774	167451	0.298	0.145	#
7)		Aldrin	6.652	7.426	168633	93079	0.042	0.037	
8)		Heptachlo...	7.112	7.848	102.2E6	3089835	27.689	0.861	#
9)		trans-Chl...	7.195	7.999	1442273	101.4E6	0.384	27.278	#
10)		cis-Chlor...	7.285	8.110	160.8E6	518194	43.781	0.147	#
11)		Endosulfa...	7.385	8.141f	369078	569938	0.106	0.172	#
12)		4,4'-DDE	7.385	8.234	369078	341636	0.111	0.198	#
13)		Dieldrin	7.562	8.372	566152	91597635	0.148	25.273	#
14)		Endrin	7.713	8.594	445539	104.6E6	0.137	34.493	#
15)		4,4'-DDD	7.753f	8.633	190.5E6	183.1E6	74.857	66.545	
16)		Endosulfa...	7.870	8.729	434936	270371	0.145	0.072	#
17)		4,4'-DDT	7.980	8.859	195141	526920	0.073	0.189	#
18)		Endrin Al...	8.163	8.973	349200	235975	0.133	0.089	#
19)		Endosulfa...	8.468	9.165	384796	226971	0.134	0.002	#
20)		Methoxychlor	8.323	9.342	115894	455473	0.096	0.056	#
21)		Endrin Ke...	8.660	9.552	8955944	106.9E6	2.591	35.396	#
23)		Hexachlor...	2.949	3.569	129.5E6	157.2E6	33.232	32.467	
24)		Hexachlor...	5.554	6.337	113.0E6	117.0E6	33.605	38.141	
25)		Oxychlordane	7.027	7.793	139.0E6	135.4E6	44.782	42.331	
26)		2,4'-DDE	7.112	7.999	102.2E6	101.4E6	44.224	44.624	
27)		trans-Non...	7.285	8.068	160.8E6	153.9E6	43.854	42.625	
28)		2,4'-DDD	7.482	8.372	87264931	91597635	45.056	47.850	
29)		2,4'-DDT	7.664	8.594	108.3E6	104.6E6	45.261	45.213	
30)		cis-Nonac...	7.753	8.633	190.5E6	183.1E6	46.815	45.939	
31)		Mirex	8.415	9.552	115.7E6	106.9E6	47.856	50.055	
32)		Chlordane...	7.195	7.999	1442273	101.4E6	3.601	233.456	#
33)		Chlordane...	7.285	8.110	160.8E6	518194	330.590	1.425	#
34)		Chlordane...	7.870f	8.782	434936	588942	3.341	4.959	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.285f	8.372	160.8E6	91597635	9821.672	3108.275	#
37)		Toxaphene...	7.632f	8.729	523330	270371	16.658	6.728	#
38)		Toxaphene...	7.914	8.729f	159750	270371	96751.667	4.179	#
39)		Toxaphene...	8.163	8.827	349200	145188	BelowCal	BelowCal	
40)		Toxaphene...	8.365	9.012	22652	119005	0.418	2.076	#
41)		Toxaphene...	8.468f	9.375	384796	3161552	5.060	47.863	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

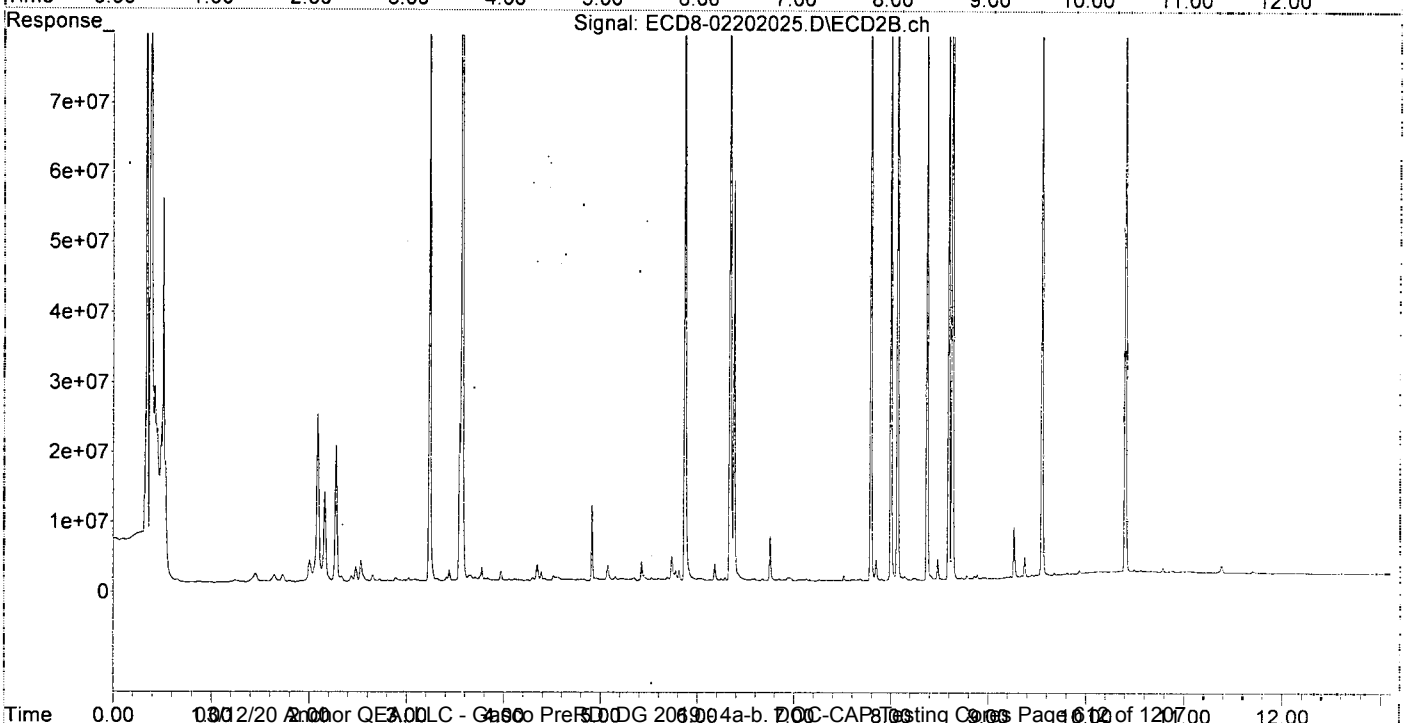
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 18:12
Operator : MJB
Sample : 0020315-BS2
Misc : 1x, 8081B RSET Sediment Marine (2016) (+Add), GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:33:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:10
Operator : MJB
Sample : 0B20033-CCV8
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

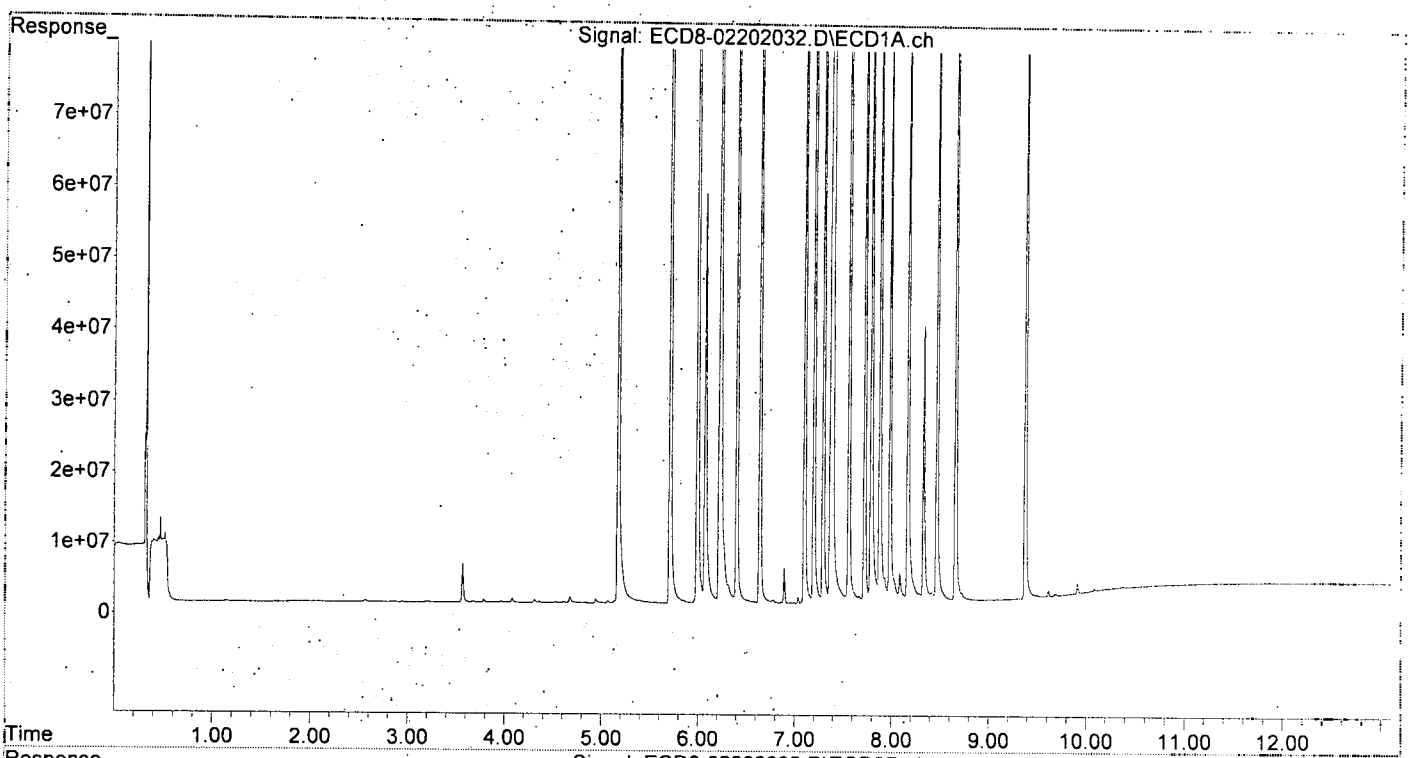
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.172	5.870	145.1E6	156.9E6	41.490	45.487	
22)	S	DCBP (S)	9.375	10.406	120.0E6	111.2E6	45.673	51.730	
		Target Compounds							
2)		a-BHC	5.708	6.473	229.9E6	239.4E6	48.657	51.116	
3)		g-BHC	5.991	6.791	191.6E6	210.0E6	46.020	49.940	
4)		b-BHC	6.071	6.858	57951955	72506367	33.274	41.765	#
5)		Heptachlor	6.400	7.162	182.8E6	188.4E6	44.486	44.731	
6)		d-BHC	6.222	7.112	118.4E6	165.7E6	33.039	43.459	#
7)		Aldrin	6.639	7.427	210.1E6	201.5E6	52.002	50.138	
8)		Heptachlo...	7.099	7.865	180.8E6	190.4E6	48.960	53.041	
9)		trans-Chl...	7.197	8.005	178.8E6	180.2E6	47.540	48.468	
10)		cis-Chlor...	7.294	8.112	182.1E6	180.0E6	49.576	51.111	
11)		Endosulfa...	7.386	8.162	190.9E6	168.6E6	55.045	51.011	
12)		4,4'-DDE	7.369	8.223	141.0E6	156.8E6	42.453	46.173	
13)		Dieldrin	7.558	8.362	192.7E6	198.7E6	50.542	52.744	
14)		Endrin	7.721	8.588	153.9E6	150.5E6	47.161	48.563	
15)		4,4'-DDD	7.787	8.638	105.0E6	133.9E6	41.258	50.524	
16)		Endosulfa...	7.879	8.737	129.2E6	140.1E6	~~43.192~~	48.779	
17)		4,4'-DDT	7.982	8.862	103.1E6	111.9E6	38.343 Q-51	41.279	
18)		Endrin Al...	8.167	8.974	115.3E6	123.0E6	43.786	46.531	
19)		Endosulfa...	8.467	9.165	126.9E6	134.0E6	44.340	49.146	
20)		Methoxychlor	8.330	9.343	38905980	52070697	32.243	43.897	#
21)		Endrin Ke...	8.659	9.563	158.9E6	164.3E6	45.961	52.917	
23)		Hexachlor...	2.947	3.566	59949	29884	0.015	0.006	#
24)		Hexachlor...	5.555	6.329	215057	40694	0.064	BelowCal	#
25)		Oxychlordane	7.038	7.800	924898	31821	0.121	0.010	#
26)		2,4'-DDE	7.099	8.005	180.8E6	180.2E6	78.197	79.289	
27)		trans-Non...	7.294	8.067	182.1E6	785569	49.658	0.218	#
28)		2,4'-DDD	0.000	8.362	0	198.7E6	N.D.	103.784	#
29)		2,4'-DDT	7.668	8.588	943497	150.5E6	0.394	63.075	#
30)		cis-Nonac...	7.787f	8.638	105.0E6	133.9E6	25.803	33.592	#
31)		Mirex	8.414	9.563	1245886	164.3E6	0.308	76.044	#
32)		Chlordane...	7.197	8.005	178.8E6	180.2E6	446.404	414.808	
33)		Chlordane...	7.294	8.112	182.1E6	180.0E6	374.348	495.243	#
34)		Chlordane...	0.000	8.737f	0	140.1E6	N.D.	1179.397	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.294	8.362	182.1E6	198.7E6	11121.718	6741.696	#
37)		Toxaphene...	7.558f	8.737	192.7E6	140.1E6	6135.079	3485.032	#
38)		Toxaphene...	7.926	8.737	3484458	140.1E6	46.361	2164.876	#
39)		Toxaphene...	8.167	8.830	115.3E6	1026125	1738.744	6.483	#
40)		Toxaphene...	8.414f	8.974f	1245886	123.0E6	22.986	2145.772	#
41)		Toxaphene...	8.467f	9.343f	126.9E6	52070697	1668.680	788.307	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

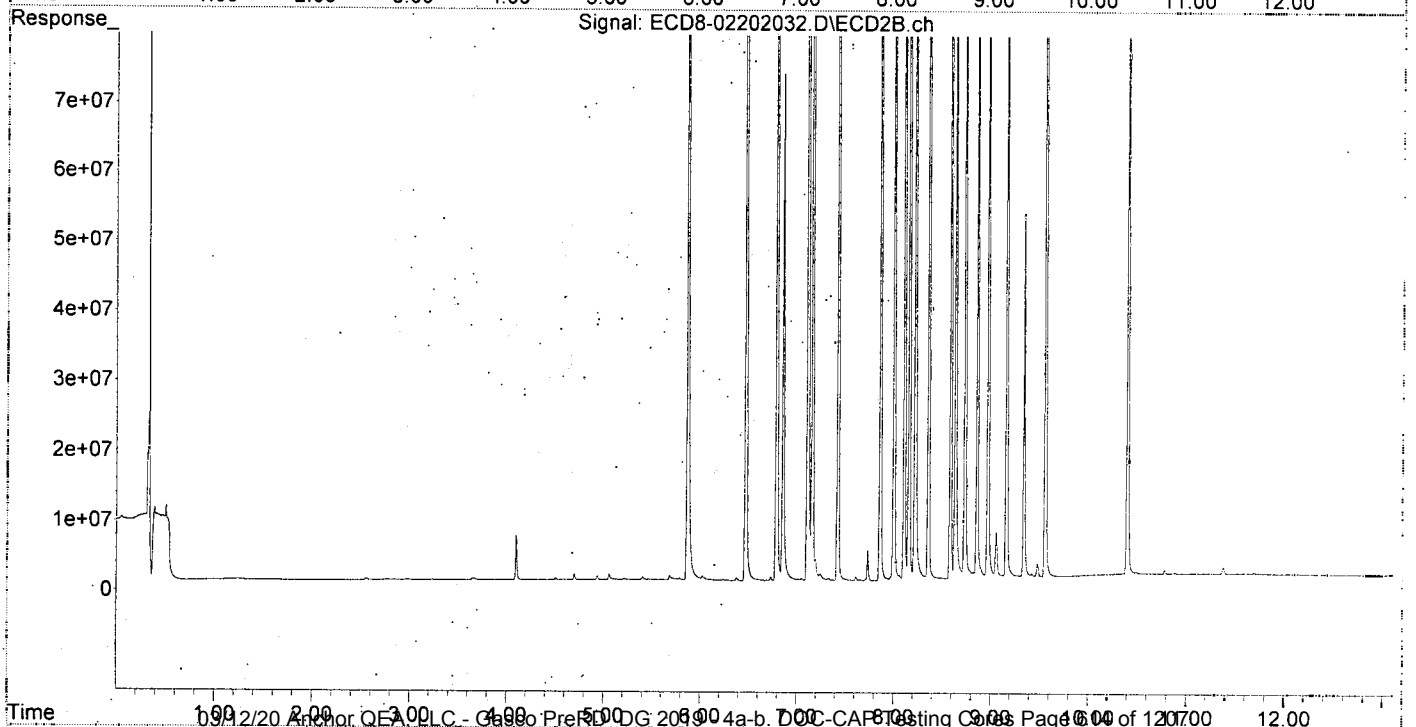
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:10
Operator : MJB
Sample : 0B20033-CCV8
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:27
Operator : MJB
Sample : 0B20033-CCV9
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

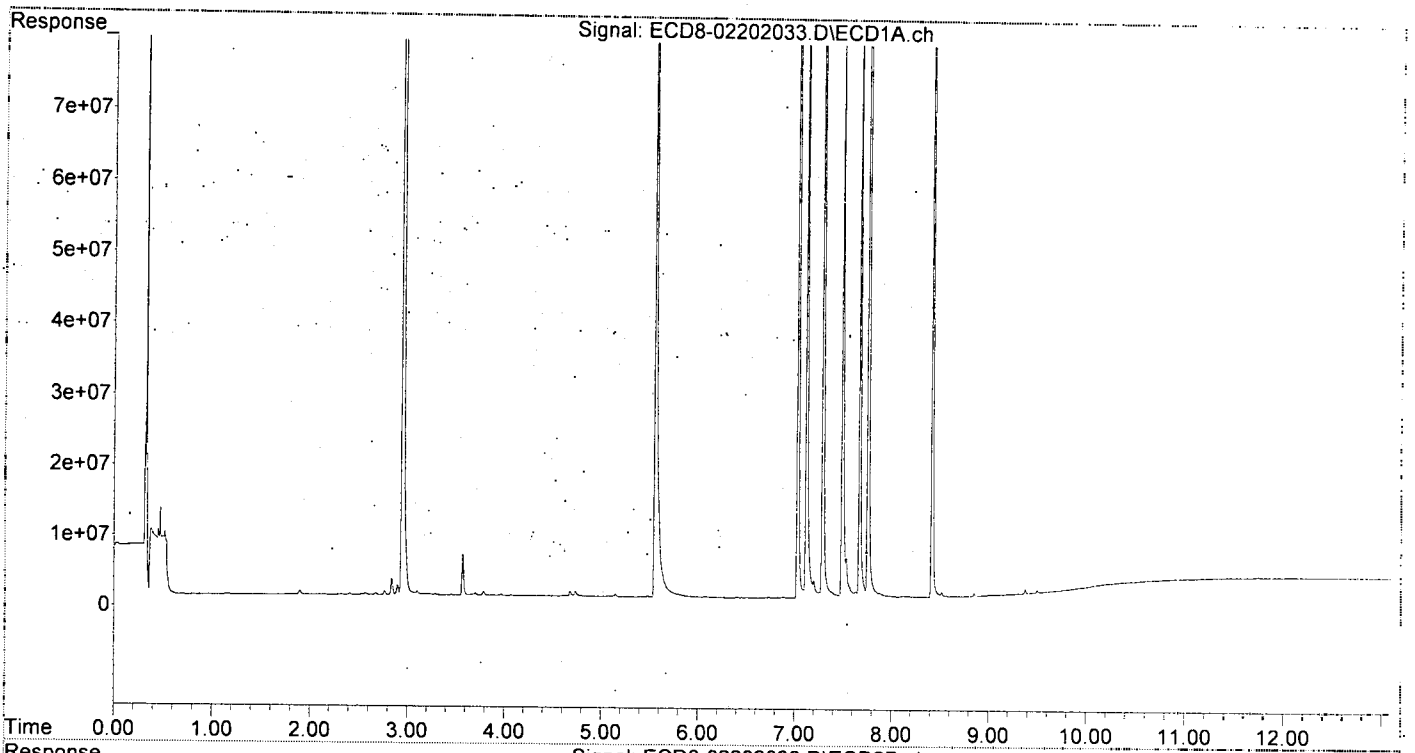
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.147f	5.880	363330	71419	0.104	0.021	#
22)	S	DCBP (S)	9.376	10.404	654323	714269	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	5.999	6.799	107479	16403	0.026	0.046	#
4)		b-BHC	6.075	6.865	183669	45844	0.105	0.026	#
5)		Heptachlor	6.401	7.162	189772	188841	0.046	0.045	
6)		d-BHC	6.232	7.119	44170	39630	0.119	0.109	
7)		Aldrin	6.648	7.423	39035	21749	0.010	0.018	#
8)		Heptachlo...	7.118	7.863	96992058	657268	26.265	0.183	#
9)		trans-Chl...	7.196	8.001	2437573	105.1E6	0.648	28.266	#
10)		cis-Chlor...	7.287	0.000	176.4E6	0	48.029	N.D.	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	7.533f	8.374	5663003	92212762	1.485	25.436	#
14)		Endrin	7.755f	8.596	195.6E6	102.3E6	59.935	33.773	#
15)		4,4'-DDD	7.755f	8.633	195.6E6	203.8E6	76.859	72.991	
16)		Endosulfa...	7.880	8.719	603264	486637	0.202	0.154	
17)		4,4'-DDT	7.985	8.862	210306	139113	0.078	0.031	#
18)		Endrin Al...	8.170	8.976	147173	93850	0.056	0.035	#
19)		Endosulfa...	0.000	9.166	0	48233	N.D.	BelowCal	
20)		Methoxychlor	8.337	9.351	17022	45149	0.014	BelowCal	#
21)		Endrin Ke...	8.663	9.552	78968	120.1E6	0.023	39.539	#
23)		Hexachlor...	2.948	3.569	188.1E6	239.6E6	48.246 Q-31	49.494	
24)		Hexachlor...	5.554	6.337	132.3E6	139.0E6	39.349	44.813	
25)		Oxychlordane	7.029	7.794	157.8E6	156.5E6	50.824	48.945	
26)		2,4'-DDE	7.118	8.001	96992058	105.1E6	41.950	46.240	
27)		trans-Non...	7.287	8.069	176.4E6	176.3E6	48.109	48.850	
28)		2,4'-DDD	7.488	8.374	78673167	92212762	40.620 Q-31	48.171	
29)		2,4'-DDT	7.668	8.596	93081329	102.3E6	38.895	44.291	
30)		cis-Nonac...	7.755	8.633	195.6E6	203.8E6	48.067	51.136	
31)		Mirex	8.416	9.552	125.7E6	120.1E6	52.007	56.130	
32)		Chlordane...	7.196	8.001	2437573	105.1E6	6.087	241.912	#
33)		Chlordane...	7.287	0.000	176.4E6	0	362.669	N.D.	#
34)		Chlordane...	0.000	8.798f	0	392958	N.D.	3.309	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.287	8.374	176.4E6	92212762	10774.724	3129.149	#
37)		Toxaphene...	7.635f	8.719	919868	486637	29.281	12.109	#
38)		Toxaphene...	7.880f	8.719f	603264	486637	5.410	7.522	#
39)		Toxaphene...	8.170f	8.798f	147173	392958	BelowCal	BelowCal	
40)		Toxaphene...	8.337f	9.003	17022	28740	0.314	0.501	#
41)		Toxaphene...	8.416f	9.390	125.7E6	54310	1652.248	0.822	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

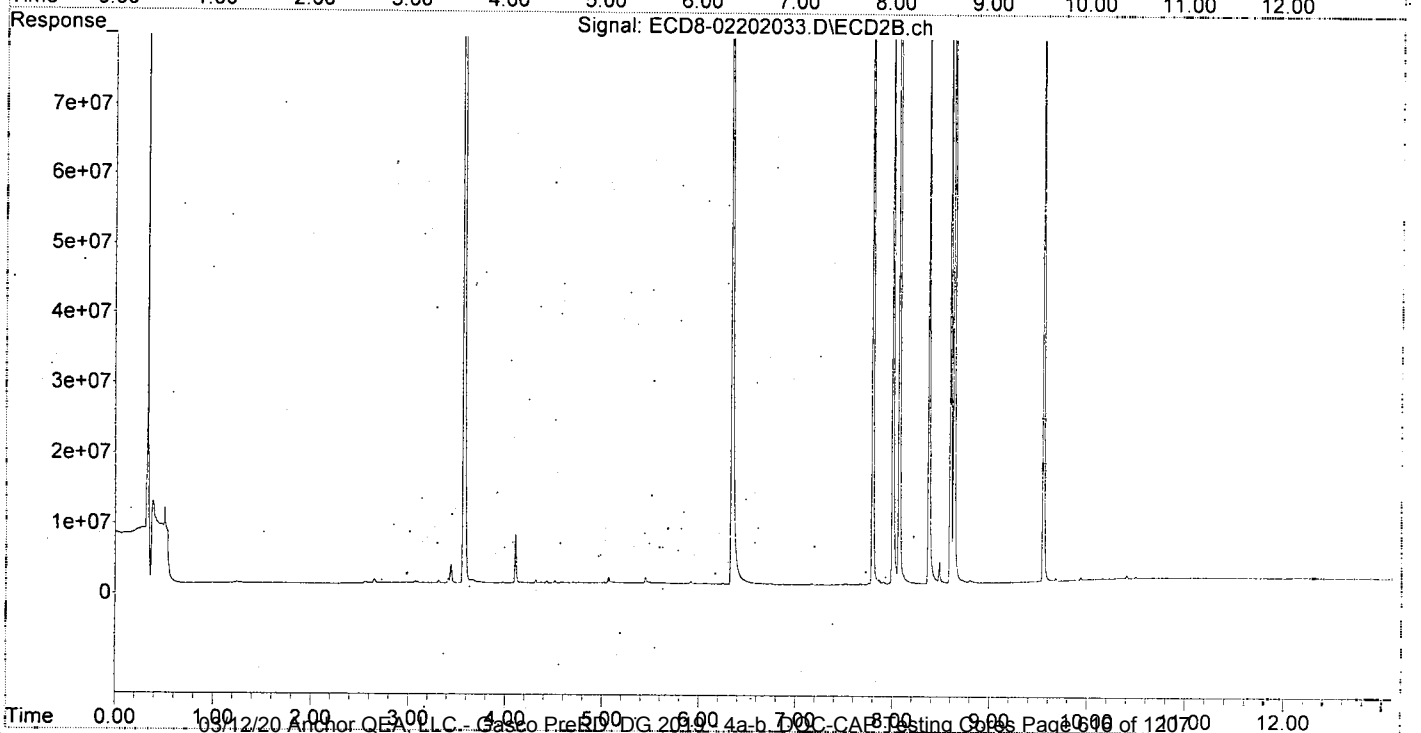
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:27
Operator : MJB
Sample : 0B20033-CCV9
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:44
Operator : MJB
Sample : 0B20033-CCB3
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

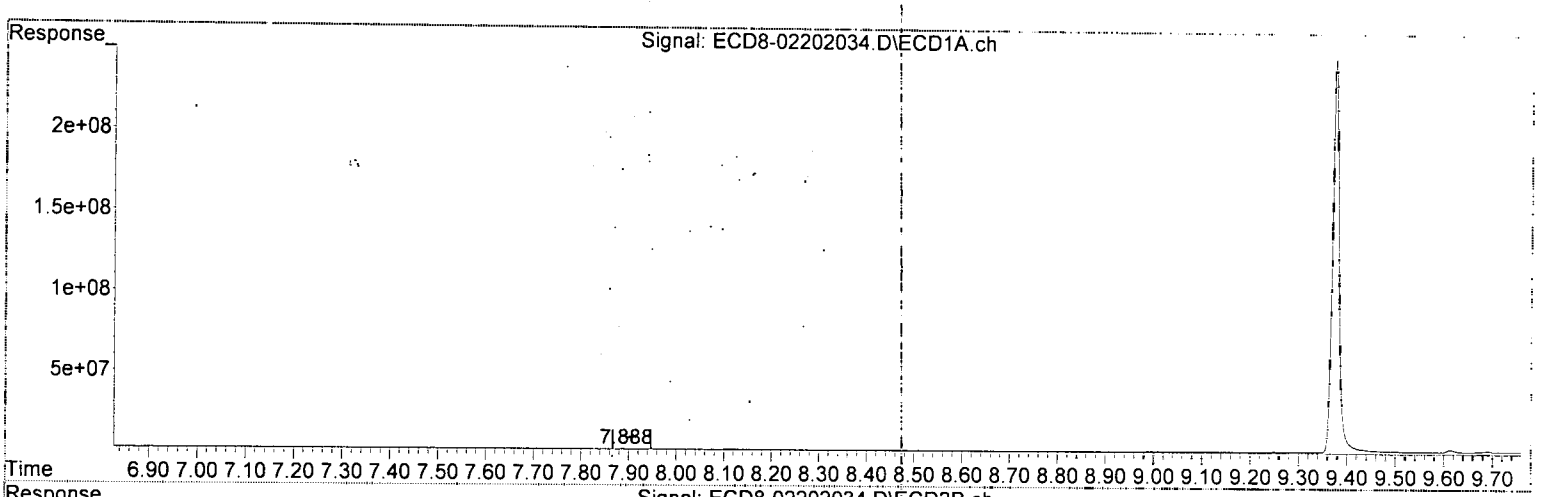
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.172	5.871	277.4E6	300.9E6	79.349	87.226	
22)	S DCBP (S)	9.375	10.404	245.9E6	218.3E6	92.020	97.479	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.083	6.872	86688	9724	0.050	0.006	#
5)	Heptachlor	0.000	7.161	0	21489	N.D.	0.005	#
6)	d-BHC	0.000	7.120	0	29819	N.D.	0.106	#
7)	Aldrin	6.657	7.455f	21784	140066	0.005	0.050	#
8)	Heptachlo...	7.075f	7.890f	18807	10362	0.005	0.003	#
9)	trans-Chl...	7.200	8.013	149488	46001	0.040	0.012	#
10)	cis-Chlor...	7.298	8.113	32623	14929	0.009	0.004	#
11)	Endosulfa...	0.000	8.165	0	7846	N.D.	0.002	#
12)	4,4'-DDE	0.000	8.235	0	7753	N.D.	0.091	#
13)	Dieldrin	7.556	8.363	21141	9999	0.006	0.035	#
14)	Endrin	7.722	8.596	12255	43506	0.004	0.008	#
15)	4,4'-DDD	7.781	8.635	10937	27542	0.004	0.055	#
16)	Endosulfa...	7.889	8.723	140428	165761	0.047	0.032	#
17)	4,4'-DDT	7.965	8.866	14130	68636	0.005	0.002	#
18)	Endrin Al...	8.168	8.976	128447	68083	0.049	0.026	#
19)	Endosulfa...	8.471	9.170	37637	44472	0.013	BelowCal	#
20)	Methoxychlor	8.340	9.342	34998	45030	0.029	BelowCal	#
21)	Endrin Ke...	8.667	9.580	29362	375440	0.008	BelowCal	#
23)	Hexachlor...	2.948	3.592f	44390	66343	0.011	0.014	
24)	Hexachlor...	5.556	6.329	415278	79407	0.124	BelowCal	#
25)	Oxychlordane	7.046	7.814	123491	15710	BelowCal	0.005	
26)	2,4'-DDE	0.000	8.013	0	46001	N.D.	0.020	#
27)	trans-Non...	7.298	8.073	32623	13395	0.009	0.004	#
28)	2,4'-DDD	0.000	8.383	0	11874	N.D.	0.006	#
29)	2,4'-DDT	7.649	8.596	9386	43506	0.004	BelowCal	#
30)	cis-Nonac...	7.759	8.635	16003	27542	0.004	0.007	#
31)	Mirex	8.416	9.580f	34989	375440	8199.114	BelowCal	#
32)	Chlordane...	7.200	8.013	149488	46001	0.373	0.106	#
33)	Chlordane...	7.298	8.113	32623	14929	0.067	0.041	#
34)	Chlordane...	0.000	8.800f	0	344232	N.D.	2.899	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.303	8.363	29643	9999	1.811	0.339	#
37)	Toxaphene...	0.000	8.723	0	165761	N.D. Q20	4.125	#
38)	Toxaphene...	7.889	8.723f	140428	165761	~~96751.942~~	2.562	#
39)	Toxaphene...	8.162	8.800	133563	344232	BelowCal	BelowCal	
40)	Toxaphene...	8.366	9.005	31246	41838	0.576	0.730	#
41)	Toxaphene...	8.440	9.342f	23165	45030	0.305	0.682	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

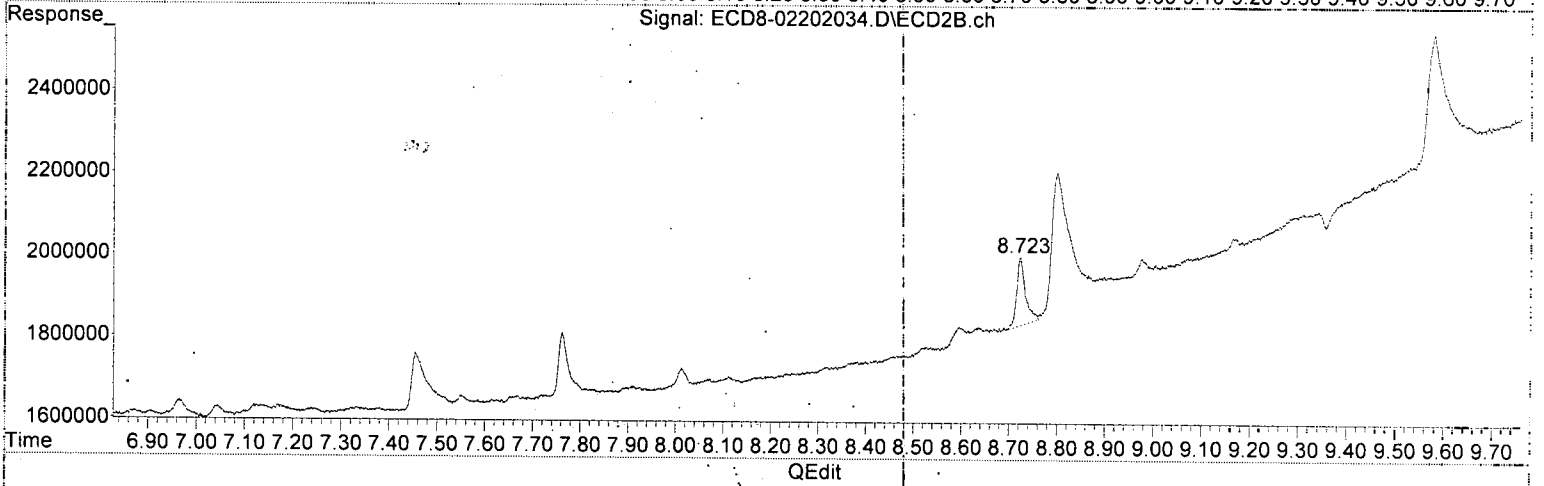
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:44
Operator : MJB
Sample : 0B20033-CCB3
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.889min 96751.942 ng/mL Q-Yes

response 140428

MJB 2/24/20

(38) Toxaphene (3) #2

8.723min 2.562 ng/mL

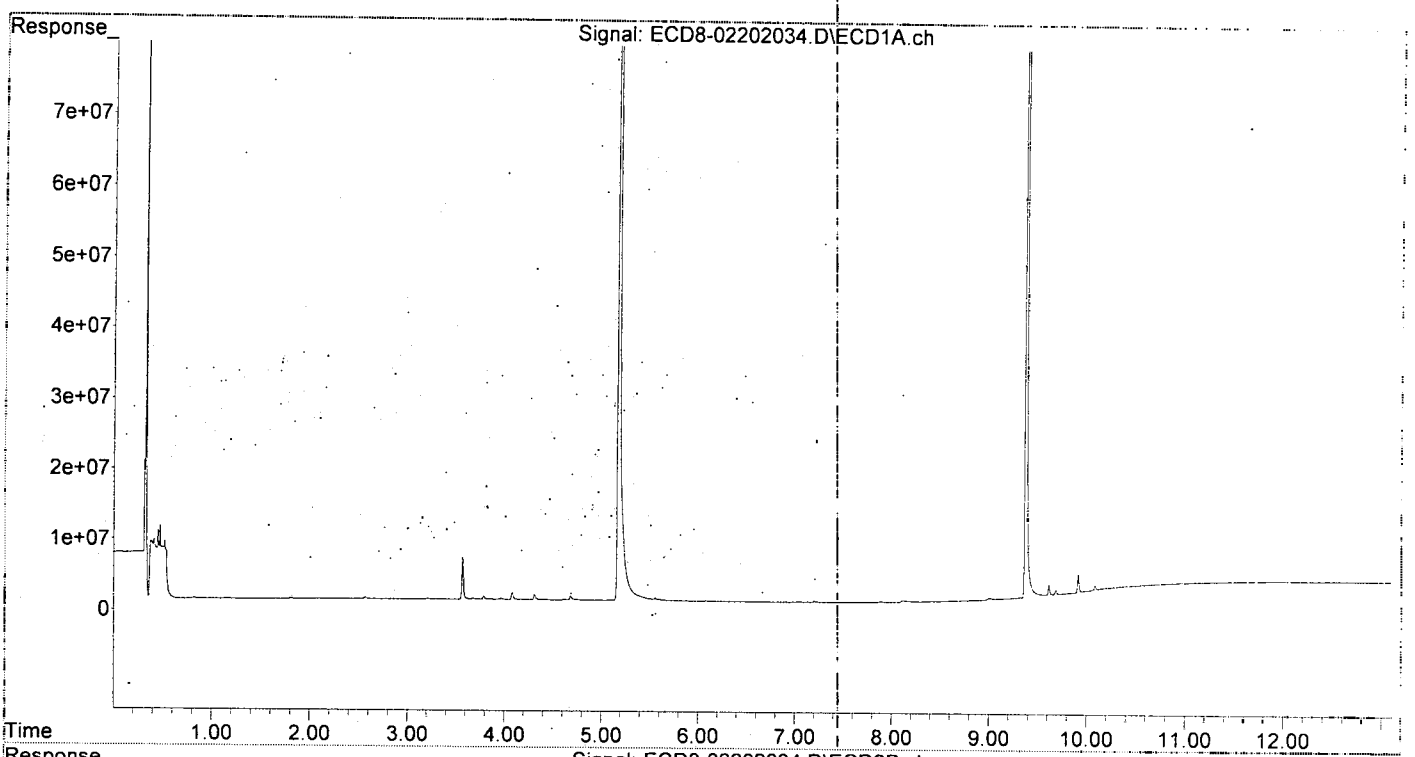
response 165761

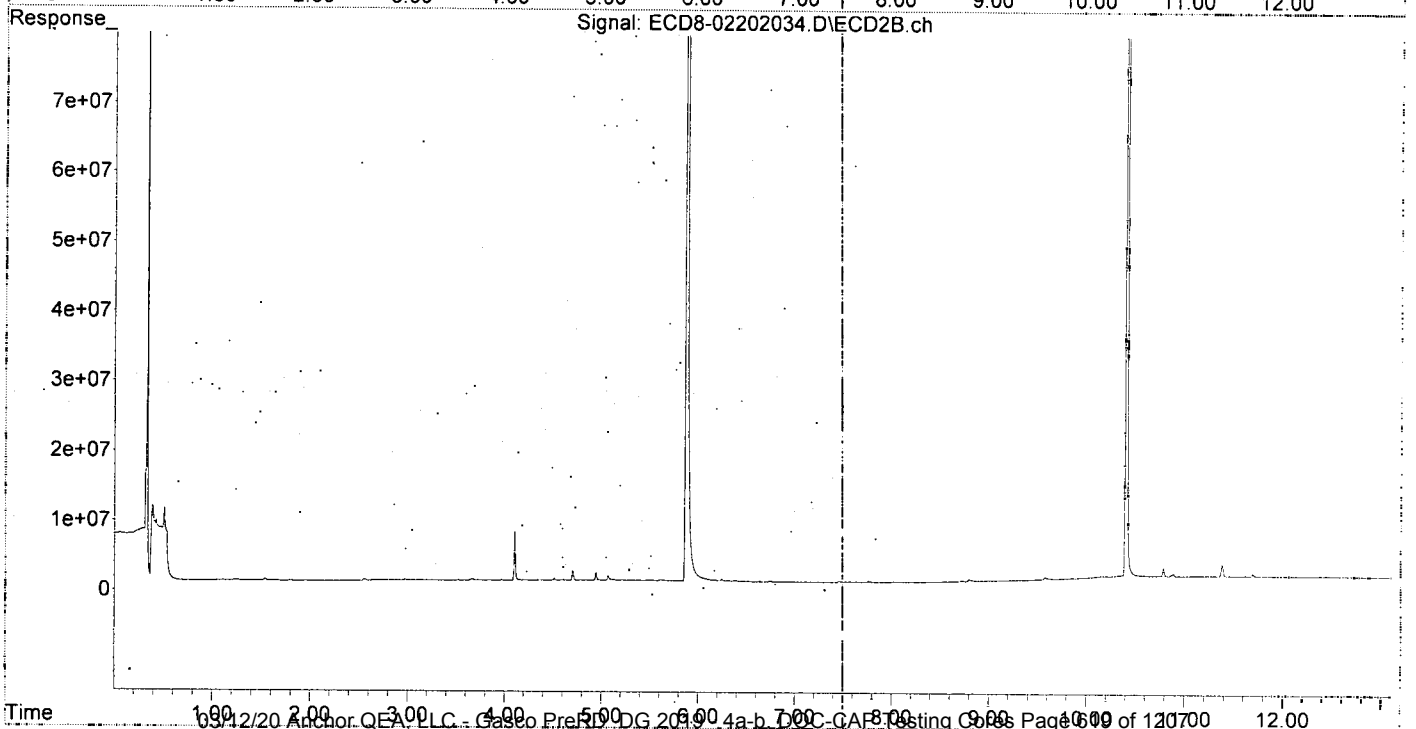
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 20:44
Operator : MJB
Sample : 0B20033-CCB3
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:34:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1(2)
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R.04 MJB 212420

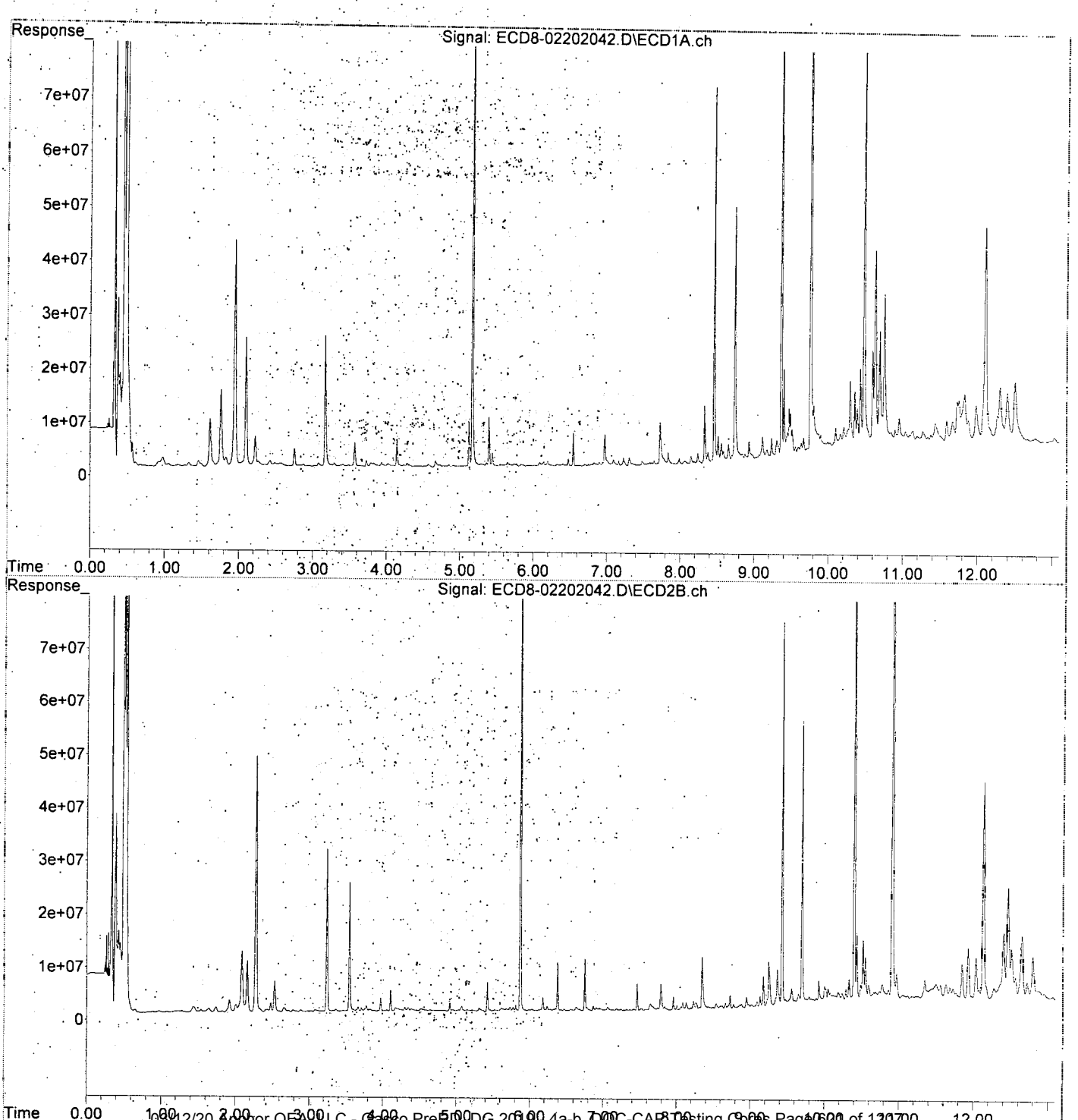
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.167	5.869	119.0E6	129.9E6	34.042	37.661
22)	S DCBP (S)	9.366	10.398	125.4E6	112.2E6	47.700	52.196
	Target Compounds						
2)	a-BHC	5.709	6.467	379066	2659743	0.080	0.698 #
3)	g-BHC	6.017f	6.779	197668	3028008	0.047	0.817 #
4)	b-BHC	6.085	6.865	761057	3396464	0.437	1.956 #
5)	Heptachlor	6.403	7.185f	477707	2944728	0.116	0.699 #
6)	d-BHC	6.235	7.122	248300	2735537	0.178	0.878 #
7)	Aldrin	6.633	7.415	102043	2950235	0.025	0.800 #
8)	Heptachlo...	7.091	7.862	1174221	3222654	0.318	0.898 #
9)	trans-Chl...	7.226f	8.003	1529907	3833599	0.407	1.031 #
10)	cis-Chlor...	7.304	8.130	1544344	4497946	0.421	1.277 #
11)	Endosulfa...	7.387	8.165	176460	3321380	0.051	1.005 #
12)	4,4'-DDE	7.348	8.230	368830	2250945	0.111	0.811m#
13)	Dieldrin	7.562	8.346	333481	13248950	0.087	3.797 #
14)	Endrin	7.725	8.594	7945086	3953726	2.434	1.366 #
15)	4,4'-DDD	0.000	8.620	0	1050467	N.D.	0.492m#
16)	Endosulfa...	7.912f	8.726	154372	6024385	0.052	2.247 #
17)	4,4'-DDT	7.985	8.880	1089467	1436650	0.405	0.560m#
18)	Endrin Al...	8.183	8.978	436046	4379102	0.166	1.656 #
19)	Endosulfa...	8.460	9.175	69887463	9857544	24.418	3.830 #
20)	Methoxychlor	8.331	9.341	10726478	5859023	8.890	5.100 #
21)	Endrin Ke...	8.654	9.558	3282487	7611499	0.950	2.468 #
23)	Hexachlor...	2.946	3.543f	241258	25480249	0.062	5.262 #
24)	Hexachlor...	5.548	6.349	413157	2763802	0.123	0.908 #
25)	Oxychlordane	7.002f	7.785	1099938	7801919	0.178	2.440 #
26)	2,4'-DDE	7.091f	8.003	1174221	1367696	0.508	0.602m
27)	trans-Non...	7.304	8.061	1544344	3648842	0.421	1.011 #
28)	2,4'-DDD	7.479	8.359	829689	4309157	0.428	2.251m#
29)	2,4'-DDT	7.645f	8.617f	783871	1086428	0.328	0.461m#
30)	cis-Nonac...	7.725f	8.617	7945086	4000898	1.952	1.004 #
31)	Mirex	8.429	9.558	585558	7611499	0.035	3.421 #
32)	Chlordane...	7.226f	8.003	1529907	3833599	3.820	8.824 #
33)	Chlordane...	7.304	8.130	1544344	4497946	3.176	12.372 #
34)	Chlordane...	7.834	8.771	2195985	4361406	16.867	36.726 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.304	8.346f	1544344	13248950	94.343	449.590 #
37)	Toxaphene...	7.587	8.726	513342	6024385	16.340	149.902 #
38)	Toxaphene...	7.912	8.771	154372	4361406	96751.744	67.413 #
39)	Toxaphene...	8.146	8.830	1397560	3906124	14.602	36.339 #
40)	Toxaphene...	8.374	9.011	1970961	4411136	36.363	76.944 #
41)	Toxaphene...	8.429	9.385	585558	6569649	7.699	99.459 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

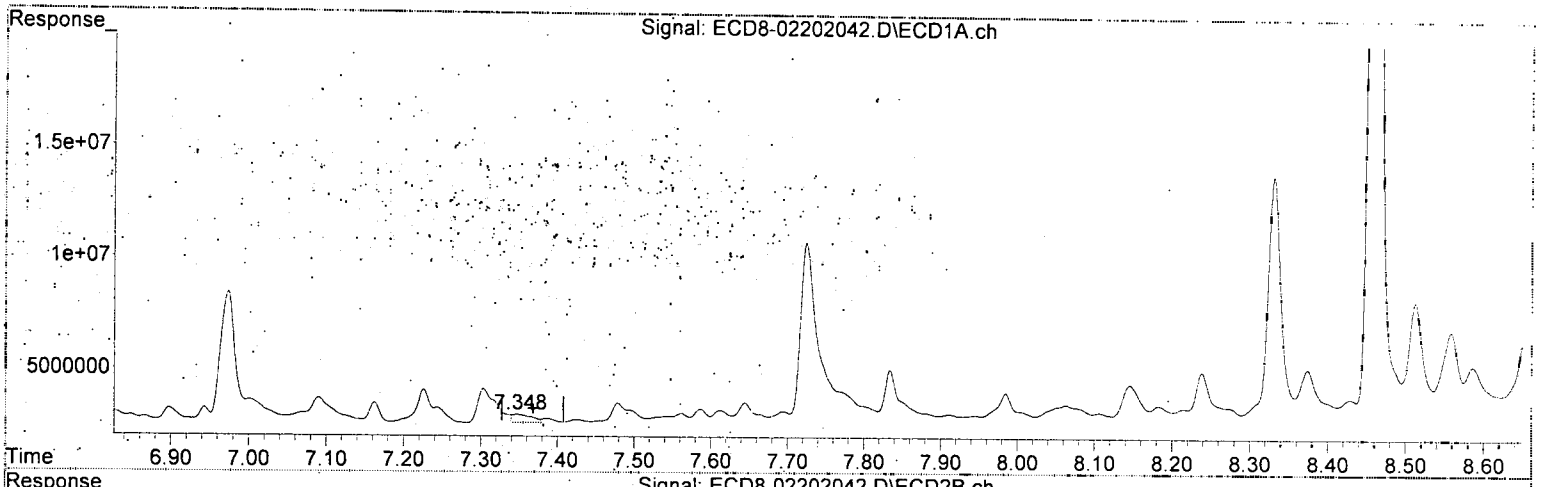
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

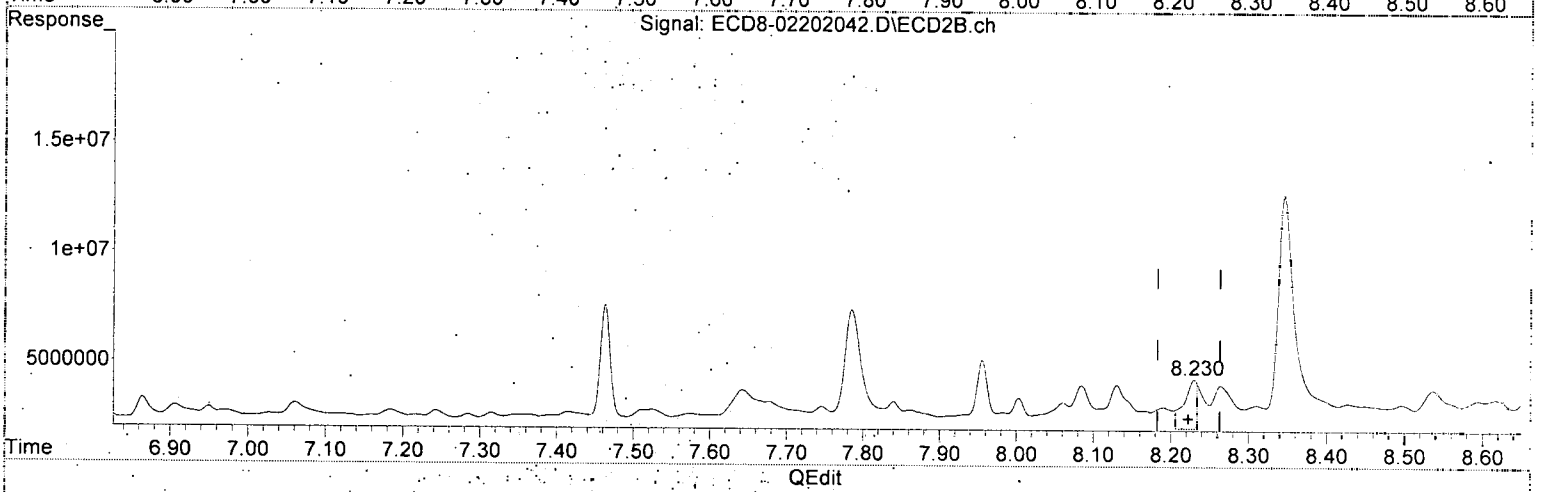


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(12) 4,4'-DDE

7.348min 0.111 ng/mL

response 368830

MJB 2/24/20

(12) 4,4'-DDE #2

8.230min 0.811 ng/mL (m)

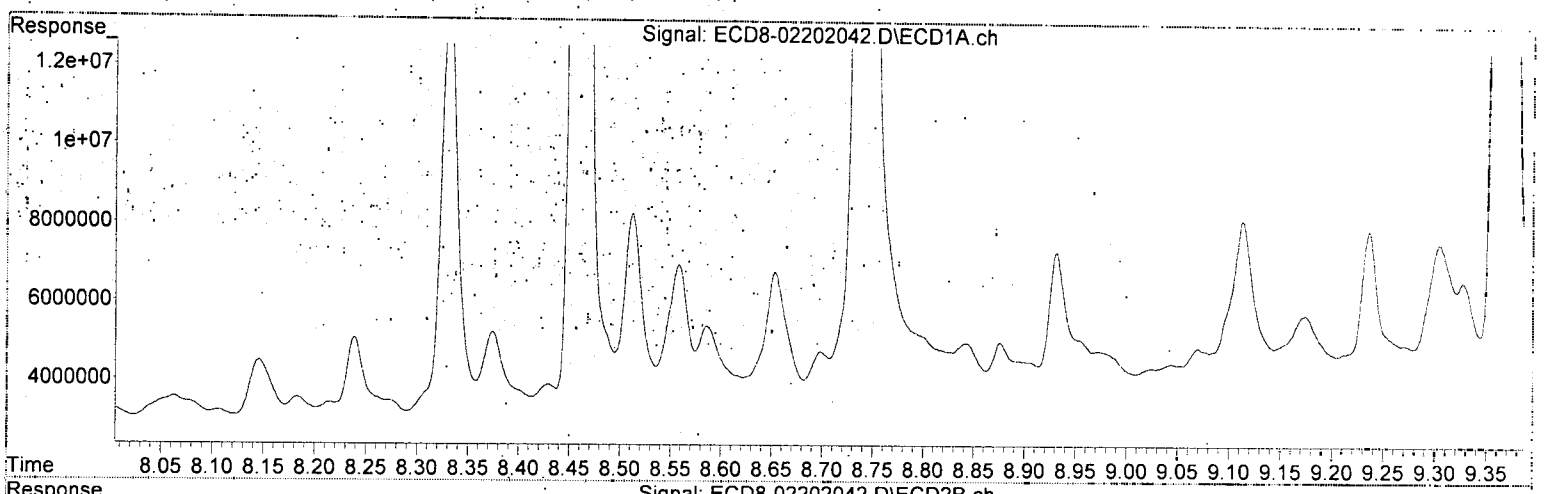
response 2250945

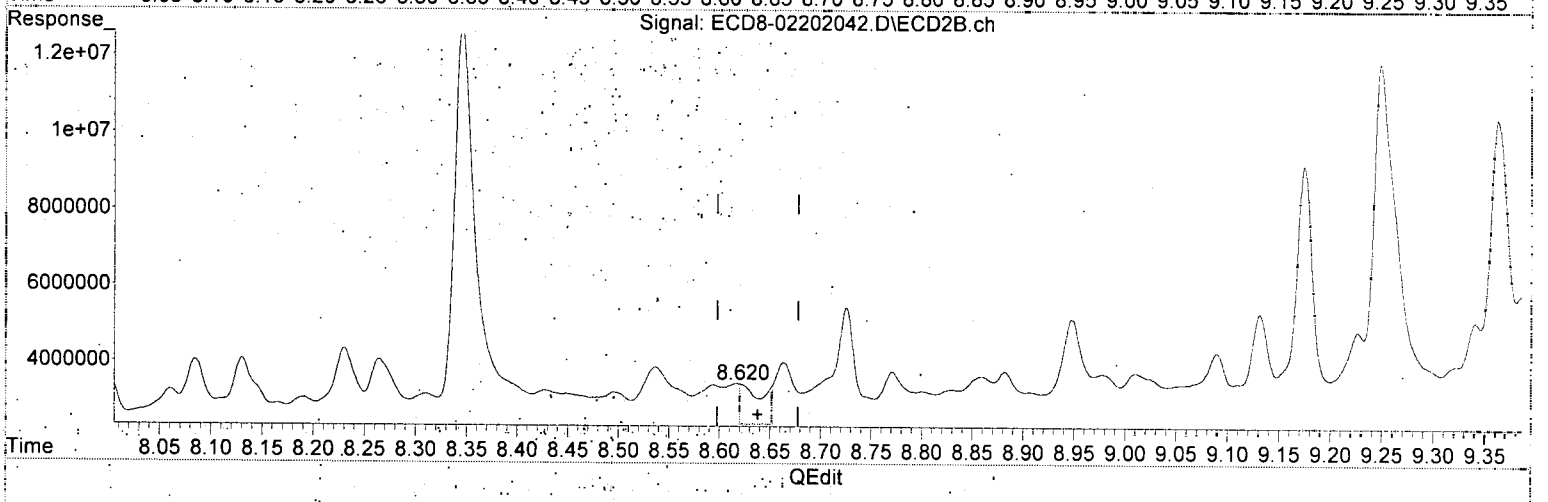
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(15) 4,4'-DDD

0.000min 0.000 ng/mL

response 0

MJB 2/24/20

(15) 4,4'-DDD #2

8.620min 0.492 ng/mL (m)

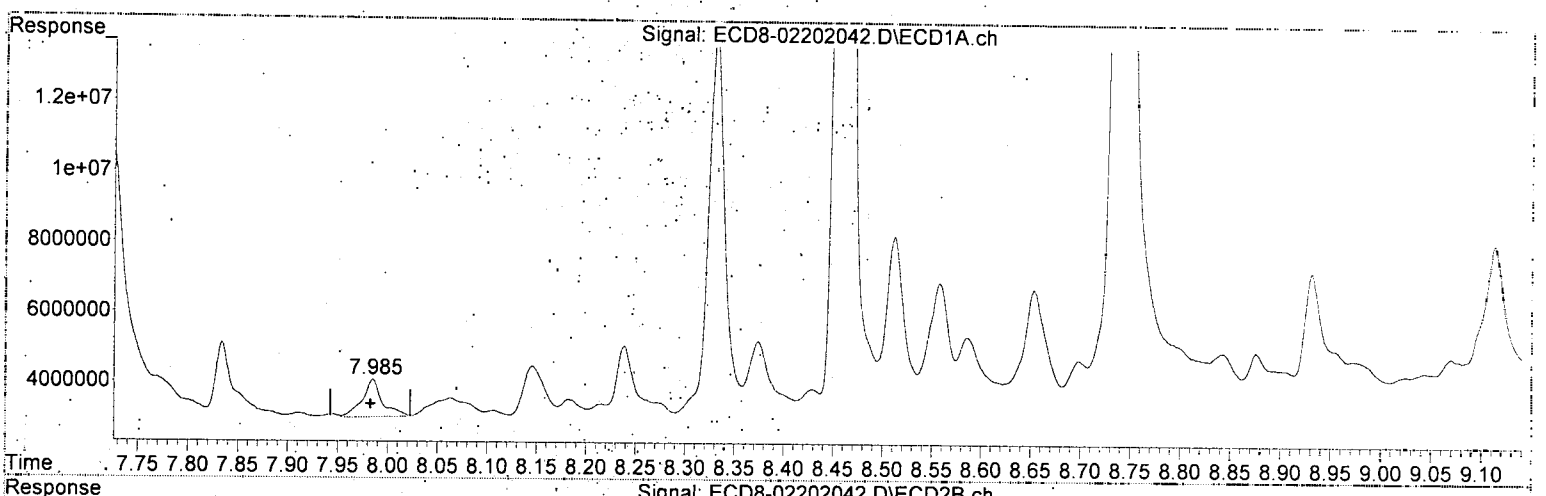
response 1050467

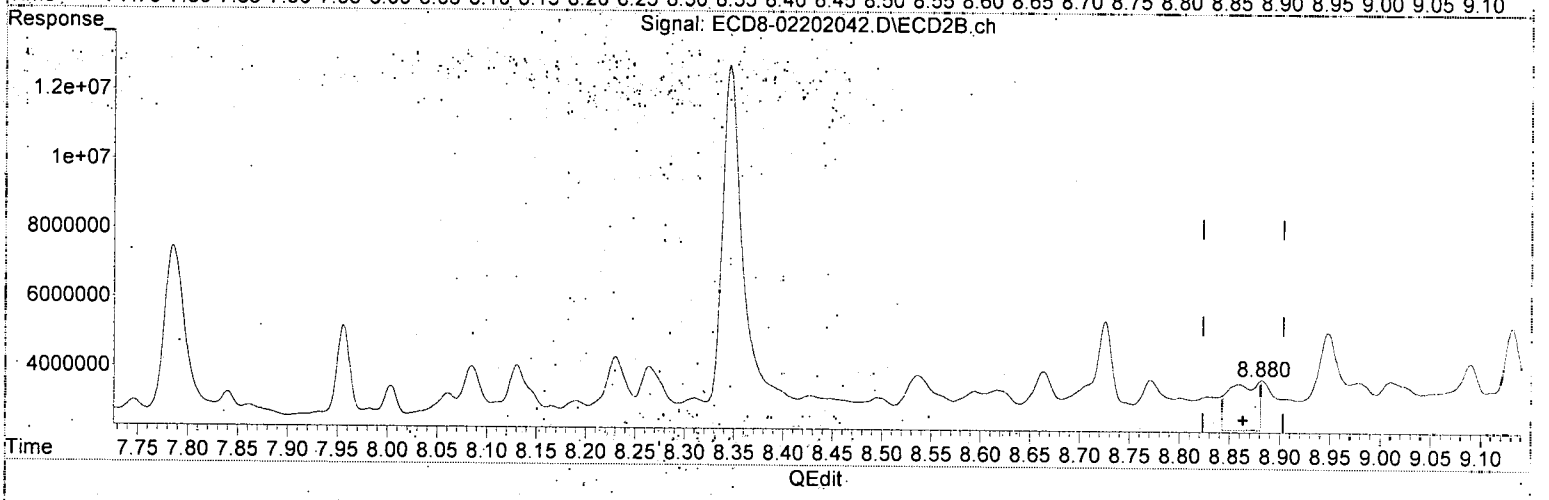
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(17) 4,4'-DDT

7.985min 0.405 ng/mL

response 1089467

MJB 2/24/20

(17) 4,4'-DDT #2

8.880min 0.560 ng/mL m

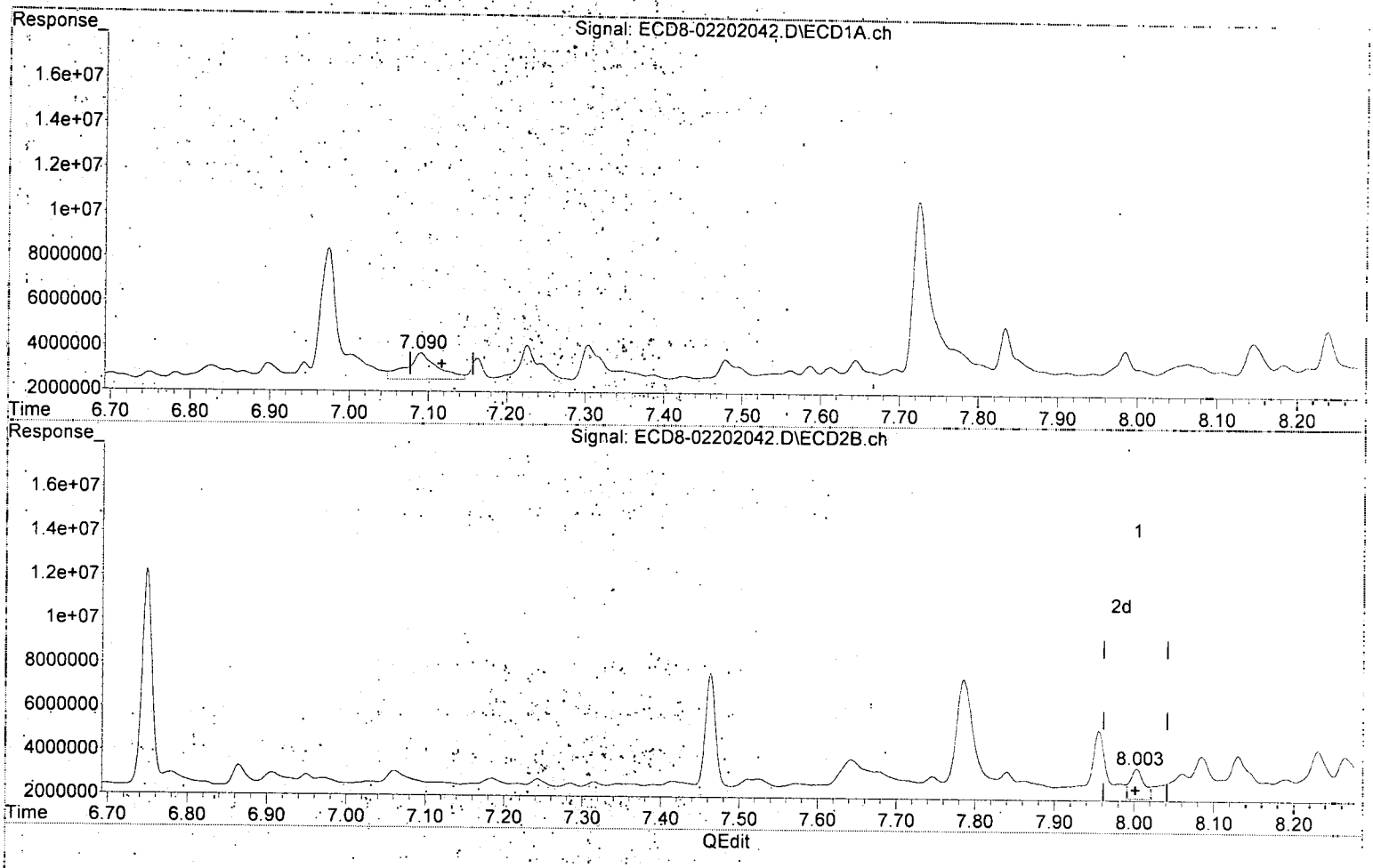
response 1436650

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.091min 0.508 ng/mL

response 1174221

MJB 2/24/20

(26) 2,4'-DDE #2

8.003min 0.602 ng/mL (m)

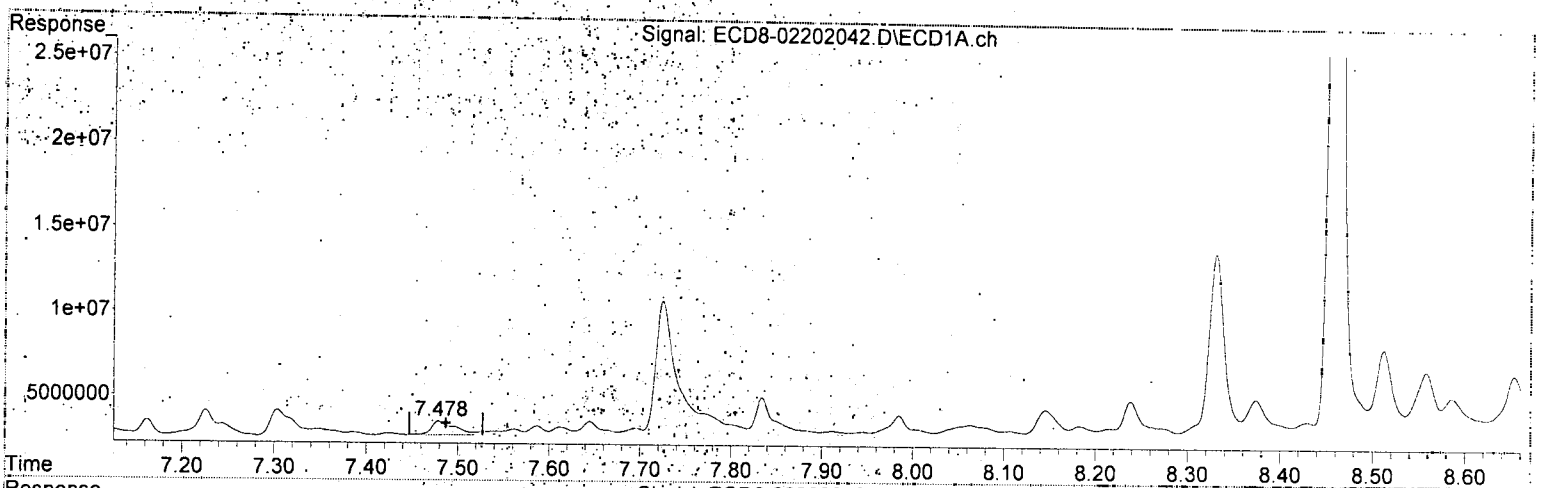
response 1367696

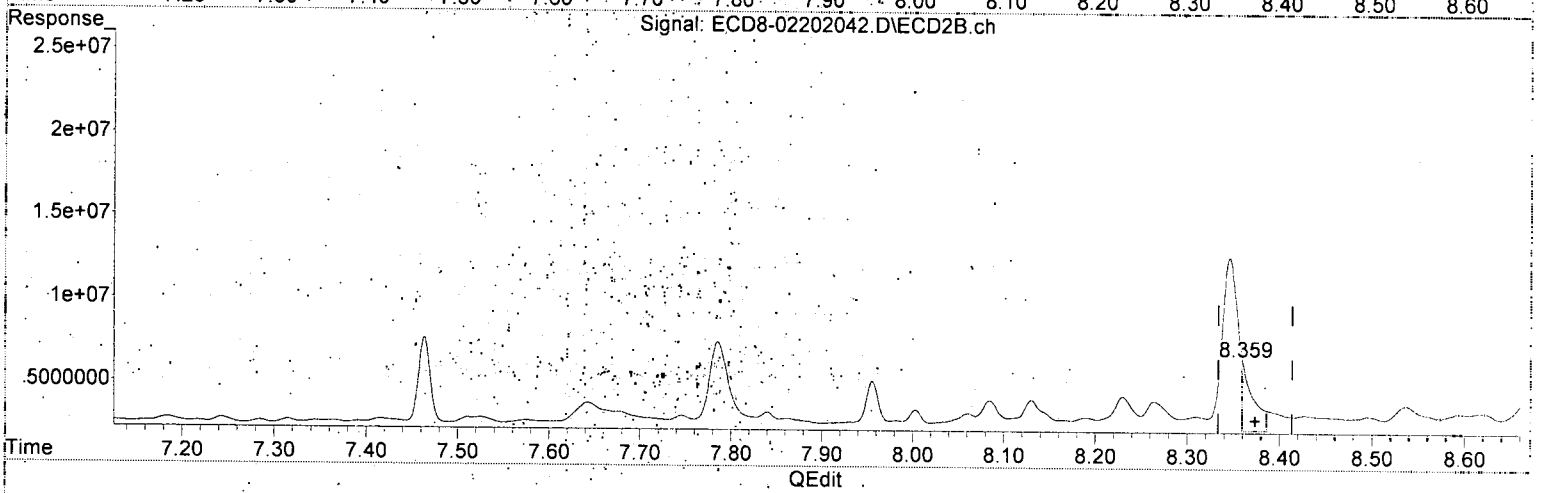
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(28) 2,4'-DDD

7.479min 0.428 ng/mL

response 829689

MJB 2/24/20

(28) 2,4'-DDD #2

8.359min 2.251 ng/mL (m) 8-01

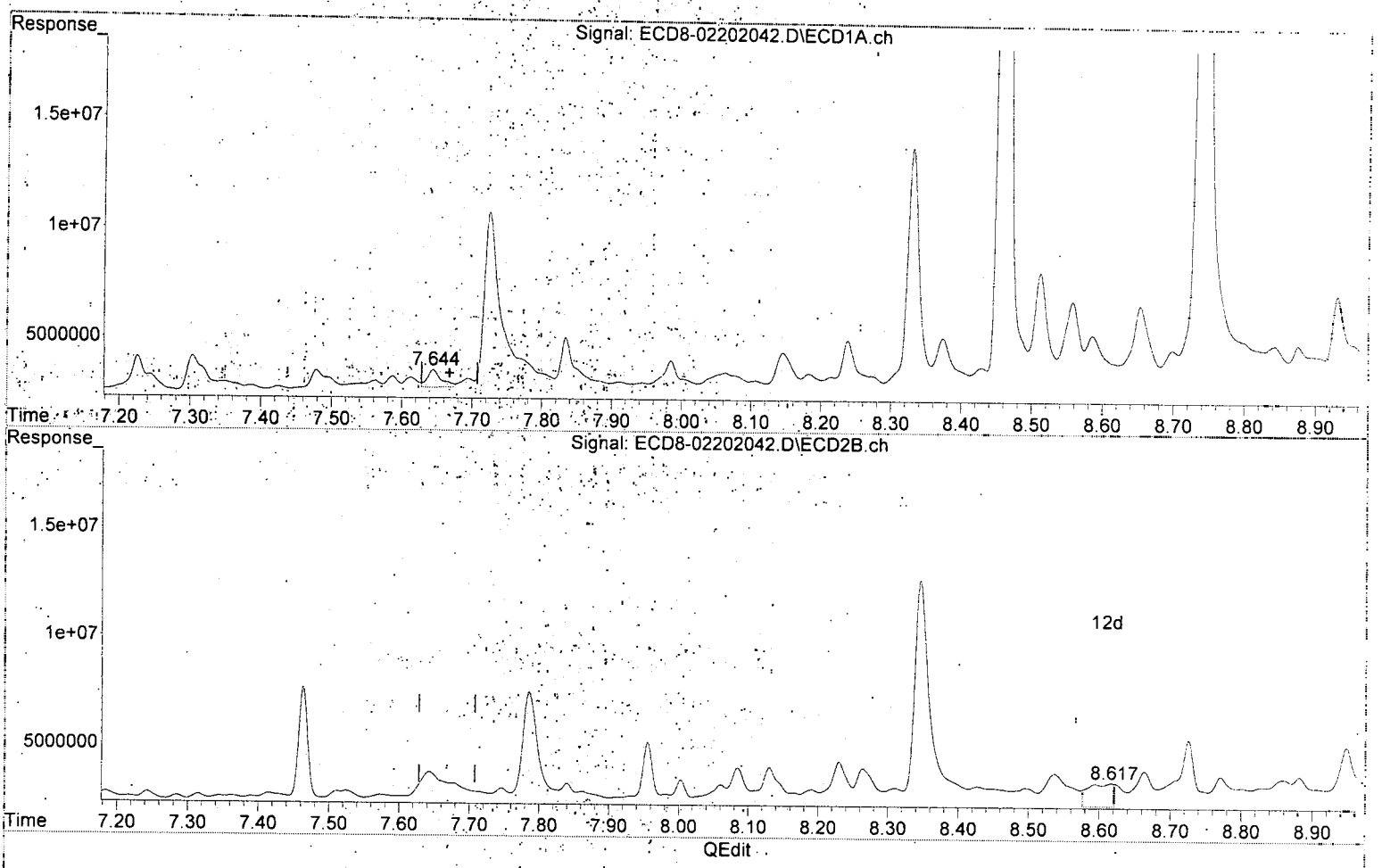
response 4309157

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.645min 0.328 ng/mL

response 783871

MJB 2/24/20

(29) 2,4'-DDT #2

8.617min 0.461 ng/mL (m)

response 1086428

(+) = Expected Retention Time

ECD8_QUANTP..._200201RT4.M Mon Feb 24 14:30:06 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

WF MJB 2/24/20

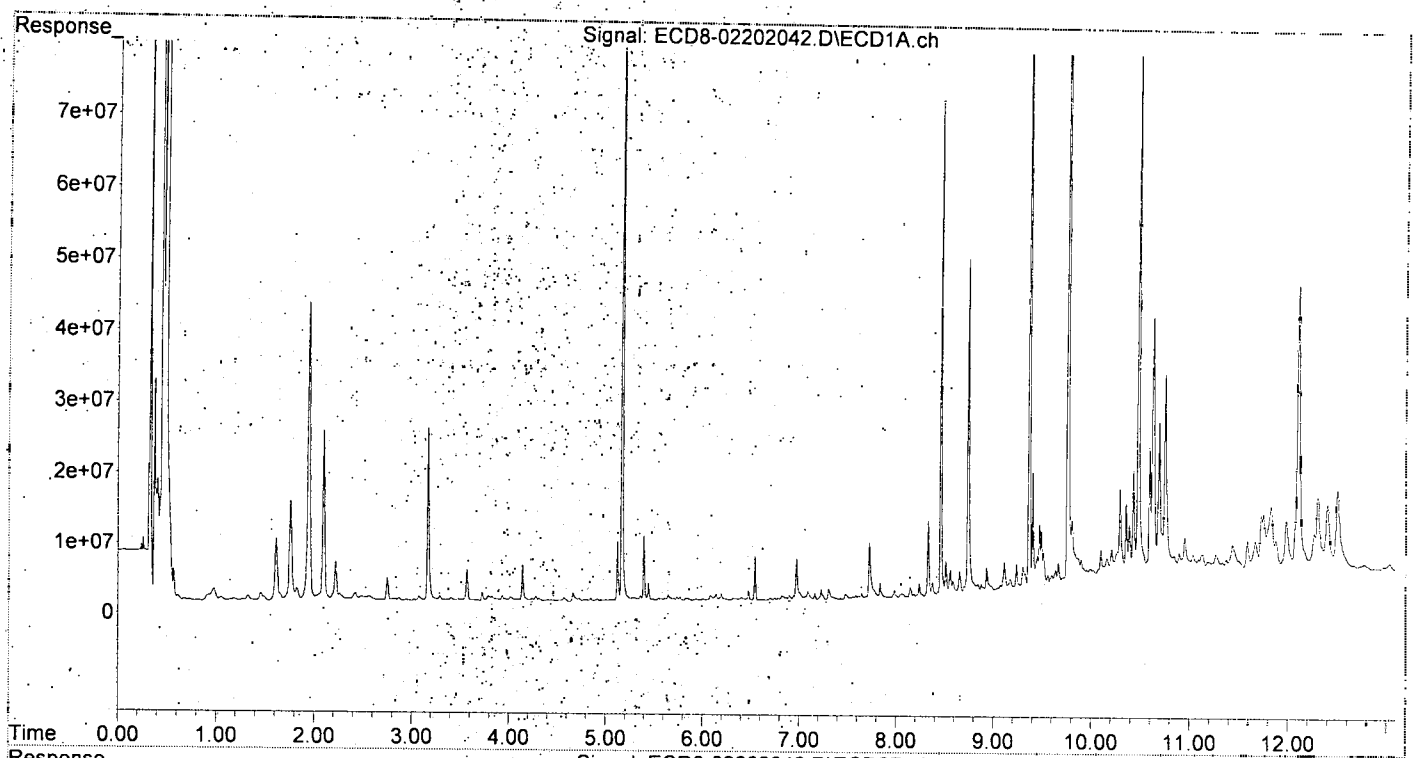
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.167	5.869	119.0E6	129.9E6	34.042	37.661	
22)	S DCBP (S)	9.366	10.398	125.4E6	112.2E6	47.700	52.196	
	Target Compounds							
2)	a-BHC	5.709	6.467	379066	2659743	0.080	0.698	#
3)	g-BHC	6.017f	6.779	197668	3028008	0.047	0.817	#
4)	b-BHC	6.085	6.865	761057	3396464	0.437	1.956	#
5)	Heptachlor	6.403	7.185f	477707	2944728	0.116	0.699	#
6)	d-BHC	6.235	7.122	248300	2735537	0.178	0.878	#
7)	Aldrin	6.633	7.415	102043	2950235	0.025	0.800	#
8)	Heptachlo...	7.091	7.862	1174221	3222654	0.318	0.898	#
9)	trans-Chl...	7.226f	8.003	1529907	3833599	0.407	1.031	#
10)	cis-Chlor...	7.304	8.130	1544344	4497946	0.421	1.277	#
11)	Endosulfa...	7.387	8.165	176460	3321380	0.051	1.005	#
12)	4,4'-DDE	7.348	8.230	368830	4783947	0.111	1.621	#
13)	Dieldrin	7.562	8.346	333481	13248950	0.087	3.797	#
14)	Endrin	7.725	8.594	7945086	3953726	2.434	1.366	#
15)	4,4'-DDD	0.000	8.617f	0	4000898	N.D.	1.749	#
16)	Endosulfa...	7.912f	8.726	154372	6024385	0.052	2.247	#
17)	4,4'-DDT	7.985	8.859	1089467	4275512	0.405	1.713	#
18)	Endrin Al...	8.183	8.978	436046	4379102	0.166	1.656	#
19)	Endosulfa...	8.460	9.175	69887463	9857544	24.418	3.830	#
20)	Methoxychlor	8.331	9.341	10726478	5859023	8.890	5.100	#
21)	Endrin Ke...	8.654	9.558	3282487	7611499	0.950	2.468	#
23)	Hexachlor...	2.946	3.543f	241258	25480249	0.062	5.262	#
24)	Hexachlor...	5.548	6.349	413157	2763802	0.123	0.908	#
25)	Oxychlordane	7.002f	7.785	1099938	7801919	0.178	2.440	#
26)	2,4'-DDE	7.091f	8.003	1174221	3833599	0.508	1.687	#
27)	trans-Non...	7.304	8.061	1544344	3648842	0.421	1.011	#
28)	2,4'-DDD	7.479	8.346f	829689	13248950	0.428	6.921	#
29)	2,4'-DDT	7.645f	8.594	783871	3953726	0.328	1.802	#
30)	cis-Nonac...	7.725f	8.617	7945086	4000898	1.952	1.004	#
31)	Mirex	8.429	9.558	585558	7611499	0.035	3.421	#
32)	Chlordane...	7.226f	8.003	1529907	3833599	3.820	8.824	#
33)	Chlordane...	7.304	8.130	1544344	4497946	3.176	12.372	#
34)	Chlordane...	7.834	8.771	2195985	4361406	16.867	36.726	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.304	8.346f	1544344	13248950	94.343	449.590	#
37)	Toxaphene...	7.587	8.726	513342	6024385	16.340	149.902	#
38)	Toxaphene...	7.912	8.771	154372	4361406	96751.744	67.413	#
39)	Toxaphene...	8.146	8.830	1397560	3906124	14.602	36.339	#
40)	Toxaphene...	8.374	9.011	1970961	4411136	36.363	76.944	#
41)	Toxaphene...	8.429	9.385	585558	6569649	7.699	99.459	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

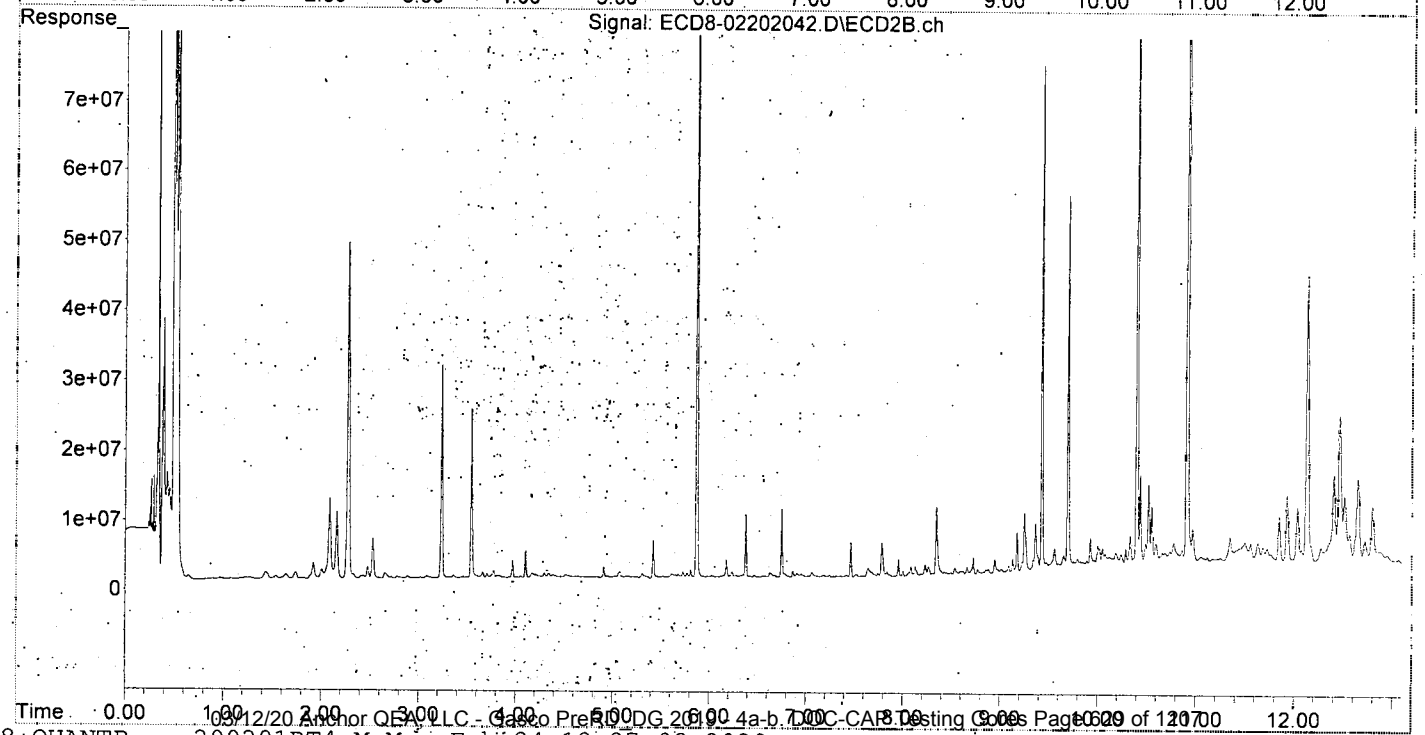
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:06
Operator : MJB
Sample : A0A1011-02RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 12:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:43
Operator : MJB
Sample : 0020205-MS1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04
MJB 2/24/20

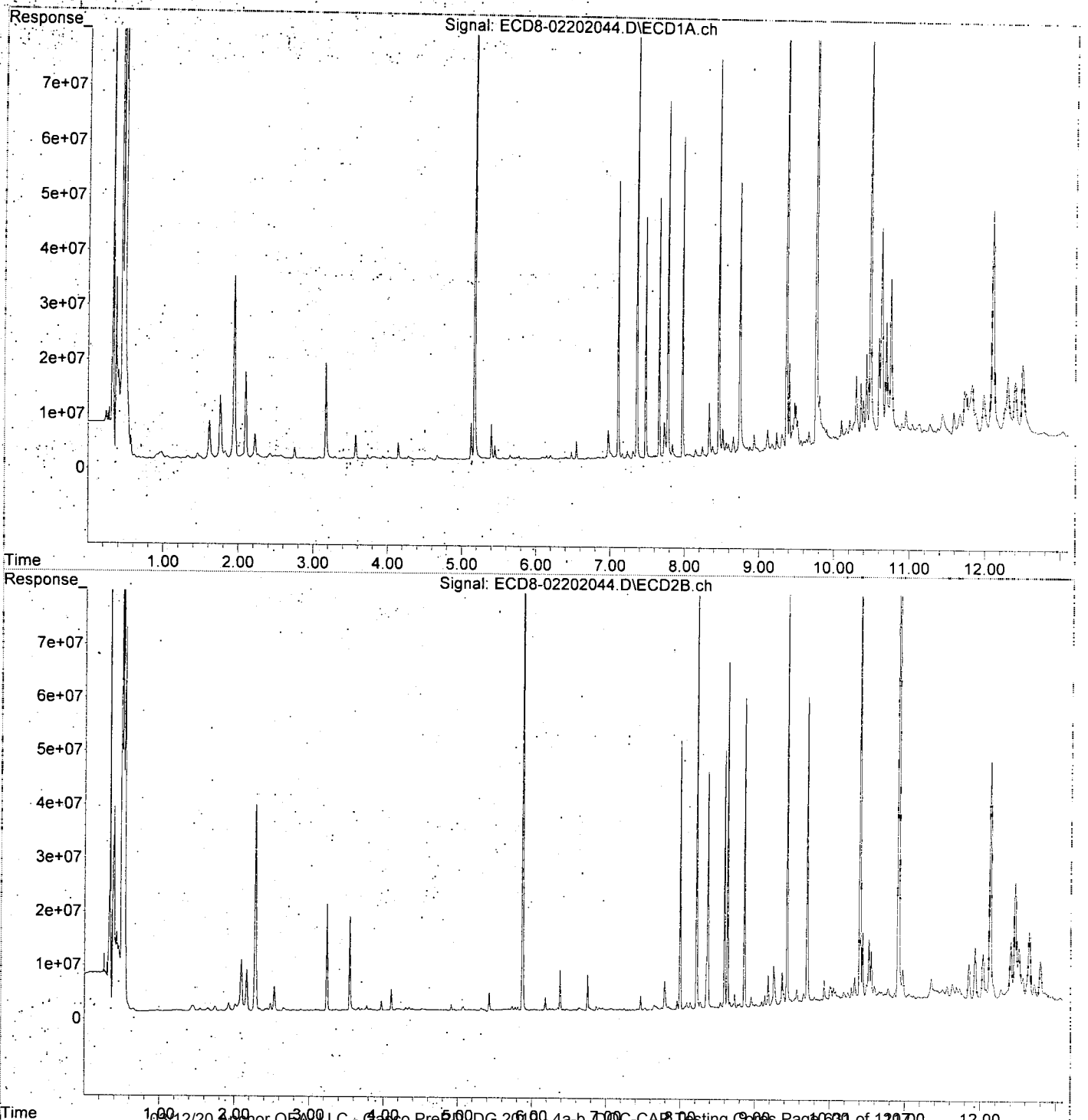
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.168	5.869	111.0E6	117.9E6	31.748	34.173	
22)	S	DCBP (S)	9.366	10.398	129.9E6	120.6E6	49.392	55.918	
		Target Compounds							
2)		a-BHC	5.710	6.467	399840	2496241	0.085	0.660	#
3)		g-BHC	6.010	6.777	168328	2765419	0.040	0.750	#
4)		b-BHC	6.086	6.865	468494	3131774	0.269	1.804	#
5)		Heptachlor	6.403	7.185f	411762	2701899	0.100	0.642	#
6)		d-BHC	6.235	7.108	215368	2591681	0.169	0.837	#
7)		Aldrin	6.635	7.416	93471	2836408	0.023	0.769	#
8)		Heptachlo...	7.104	7.861	51143947	3135101	13.850	0.873	#
9)		trans-Chl...	7.227f	7.994	1469039	53183414	0.391	14.303	#
10)		cis-Chlor...	7.305	8.131	1383947	4366031	0.377	1.239	#
11)		Endosulfa...	7.355f	8.131f	79620081	4366031	22.954	1.321	#
12)		4,4'-DDE	7.355	8.215	79620081	84405782	23.976	25.869	
13)		Dieldrin	7.562	8.366	307301	47423551	0.081	13.323	#
14)		Endrin	7.726	8.589	6587671	51488119	2.019	17.430	#
15)		4,4'-DDD	7.773	8.630	65764919	68074234	25.841	27.218	
16)		Endosulfa...	7.912f	8.726	142888	6133966	0.048	2.288	#
17)		4,4'-DDT	7.971	8.856	59100317	61227687	21.985	23.546	
18)		Endrin Al...	8.184	8.982	281080	4247654	0.107	1.607	#
19)		Endosulfa...	8.459	9.175	73047112	9946085	25.522	3.865	#
20)		Methoxychlor	8.331	9.363	9882352	10489061	8.190	9.322	
21)		Endrin Ke...	8.653	9.558	3450485	7267400	0.998	2.347	#
23)		Hexachlor...	2.944	3.543f	237622	18778838	0.061	3.878	#
24)		Hexachlor...	5.548	6.349	434230	2712504	0.129	0.890	#
25)		Oxychlordane	0.000	7.788	0	8151187	N.D.	2.549	#
26)		2,4'-DDE	7.104	7.994	51143947	53183414	22.120	23.398	
27)		trans-Non...	7.305	8.062	1383947	3551129	0.377	0.984	#
28)		2,4'-DDD	7.475	8.366	44558695	47423551	23.006	24.774	
29)		2,4'-DDT	7.657	8.589	47971933	51488119	20.046	23.124	
30)		cis-Nonac...	7.773	8.630	65764919	68074234	16.161	17.082	
31)		Mirex	8.429	9.558	609518	7267400	0.045	3.255	#
32)		Chlordane...	7.227f	7.994	1469039	53183414	3.668	122.408	#
33)		Chlordane...	7.305	8.131	1383947	4366031	2.846	12.009	#
34)		Chlordane...	7.834	8.771	2490665	4263518	19.130	35.902	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.305	8.366	1383947	47423551	84.545	1609.271	#
37)		Toxaphene...	7.587	8.726	498081	6133966	15.855	152.628	#
38)		Toxaphene...	7.912	8.771	142888	4263518	96751.907	65.900	#
39)		Toxaphene...	8.146	8.797f	1417955	4460971	14.916	42.076	#
40)		Toxaphene...	8.376	9.012	1893720	4330717	34.938	75.541	#
41)		Toxaphene...	8.429	9.386	609518	6525343	8.014	98.788	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2020 23:43
Operator : MJB
Sample : 0020205-MS1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 00:21
Operator : MJB
Sample : 0020205-MSD(2) MJB 2/24/20
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

R-04 MJB 2/24/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.167	5.868	128.8E6	138.1E6	36.847	40.038	
22)	S	DCBP (S)	9.365	10.398	120.5E6	117.4E6	45.877	54.513	
		Target Compounds							
2)		a-BHC	5.708	6.465	460384	3627029	0.097	0.924	#
3)		g-BHC	5.982	6.776	768424	5670297	0.185	1.492	#
4)		b-BHC	6.072	6.863	6061976	5945721	3.481	3.425	
5)		Heptachlor	6.399	7.176	1008137	6786412	0.245	1.612	#
6)		d-BHC	6.234	7.120	450928	3914344	0.237	1.213	#
7)		Aldrin	6.605f	7.410	1008528	4114471	0.250	1.110	#
8)		Heptachlo...	7.104	7.857	51493865	5046278	13.944	1.406	#
9)		trans-Chl...	7.223f	7.994	3536372	51958188	0.940	13.973	#
10)		cis-Chlor...	7.297	8.129	8437446	7843724	2.298	2.227	
11)		Endosulfa...	7.354f	8.165	81227773	5208530	23.417	1.576	#
12)		4,4'-DDE	7.354	8.214	81227773	84973421	24.460	26.034	
13)		Dieldrin	7.559	8.365	1473450	51854428	0.386	14.540	#
14)		Endrin	7.719	8.589	27641344	44909960	8.469	15.255	#
15)		4,4'-DDD	7.773	8.630	70357849	73808558	27.646	29.350	
16)		Endosulfa...	7.889	8.725	510194	10021638	0.171	3.747	#
17)		4,4'-DDT	7.971	8.855	48263679	55646931	17.954	21.504	
18)		Endrin Al...	8.170	8.964	1174552	5943068	0.446	2.248	#
19)		Endosulfa...	8.460	9.173	112.6E6	14199911	39.336	5.539	#
20)		Methoxychlor	8.329	9.361	19323980	14610766	16.015	13.008	
21)		Endrin Ke...	8.663	9.554	6581481	9801204	1.904	3.237	#
23)		Hexachlor...	2.943	3.542f	569613	32670146	0.146	6.747	#
24)		Hexachlor...	5.566	6.349	1857192	3609058	0.552	1.201	#
25)		Oxychlordane	0.000	7.784	0	21670369	N.D.	6.776	#
26)		2,4'-DDE	7.104	7.994	51493865	51958188	22.272	22.859	
27)		trans-Non...	7.297	8.059	8437446	5473380	2.301	1.516	#
28)		2,4'-DDD	7.474	8.365	46785128	51854428	24.156 RPT	27.088	
29)		2,4'-DDT	7.656	8.589	41838269	44909960	17.483	20.269	
30)		cis-Nonac...	7.773	8.630	70357849	73808558	17.289	18.521	
31)		Mirex	0.000	9.554	0	9801204	N.D.	4.475	#
32)		Chlordane...	7.223f	7.994	3536372	51958188	8.830	119.588	#
33)		Chlordane...	7.297	8.129	8437446	7843724	17.349	21.575	
34)		Chlordane...	7.832	8.769	5130001	6171582	39.402	51.969	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.297	8.365	8437446	51854428	515.440	1759.629	#
37)		Toxaphene...	7.583	8.725	1685728	10021638	53.659	249.363	#
38)		Toxaphene...	7.913	8.769	674901	6171582	6.428	95.393	#
39)		Toxaphene...	8.140	8.795f	1822370	7393258	21.149	72.313	#
40)		Toxaphene...	8.370	9.013	5220809	6114901	96.321	106.663	
41)		Toxaphene...	8.460	9.361	112.6E6	14610766	1480.330	221.195	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

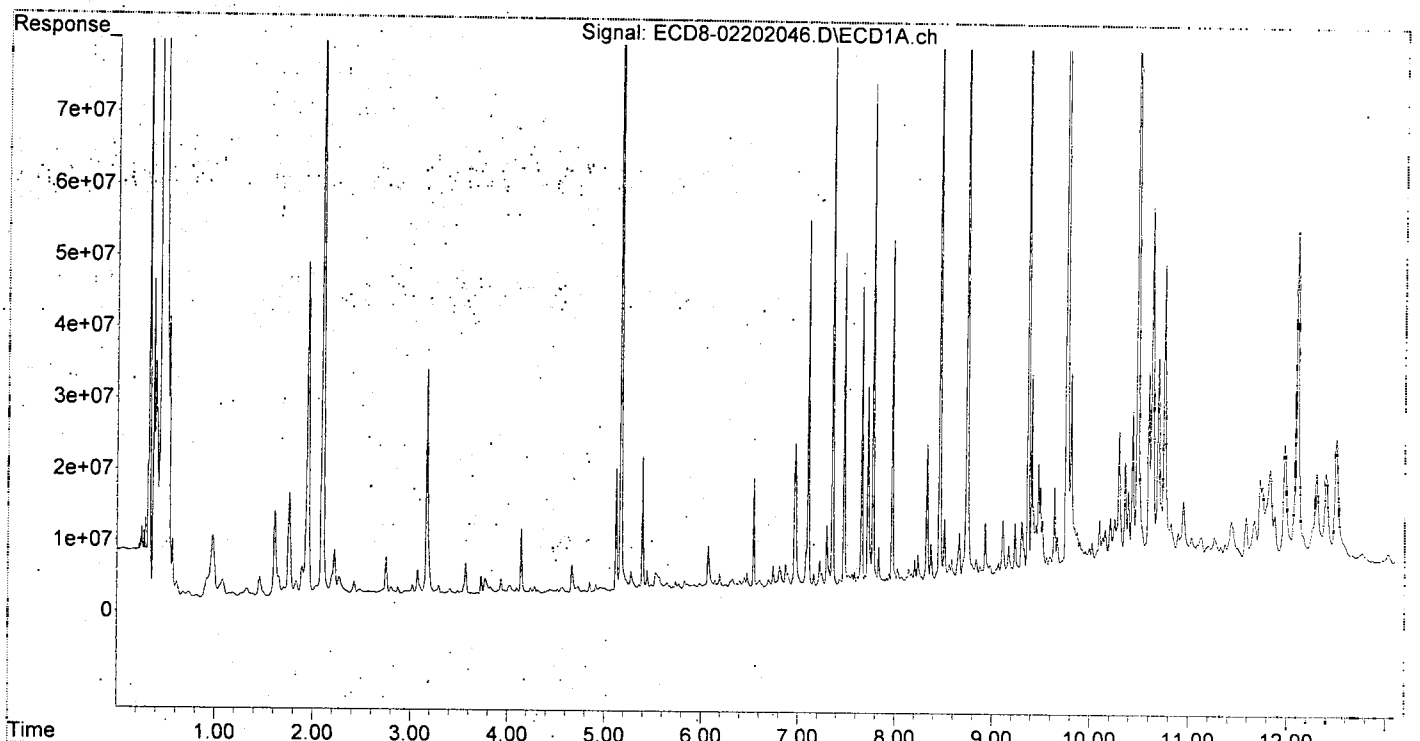
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

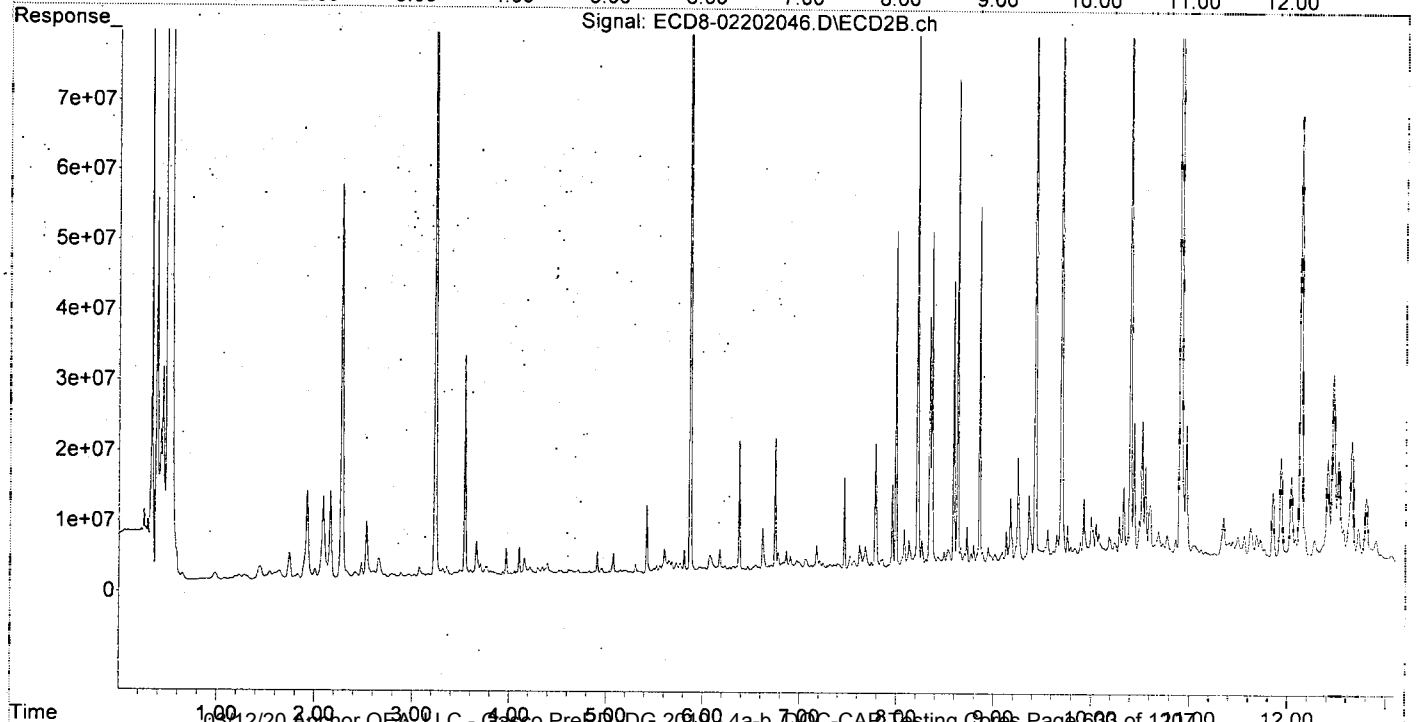
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 00:21
Operator : MJB
Sample : 0020205-MSD1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 32 Sample Multiplier: 1

MJB 2/24/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 00:58
Operator : MJB
Sample : 0B20033-CCV5A MJB 2/24/20
Misc : A19K134, AB 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/24/20

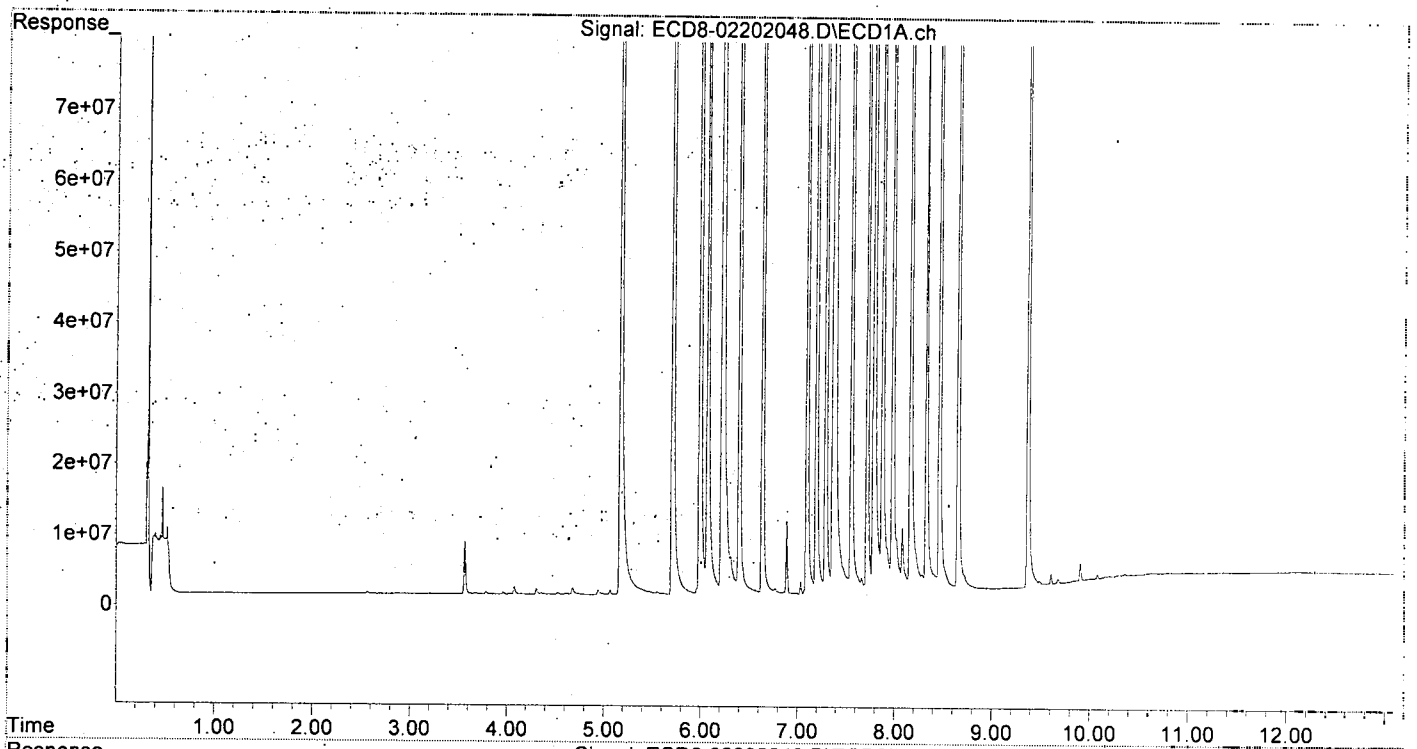
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.168	5.868	291.1E6	322.3E6	83.260	93.431	
22)	S	DCBP (S)	9.369	10.399	257.1E6	240.2E6	96.058	106.399	
		Target Compounds							
2)		a-BHC	5.704	6.471	466.8E6	516.2E6	98.799	101.211	
3)		g-BHC	5.986	6.788	402.5E6	451.0E6	96.675	99.899	
4)		b-BHC	6.066	6.854	129.6E6	158.3E6	74.433	91.184	
5)		Heptachlor	6.396	7.158	433.5E6	436.4E6	105.465	103.636	
6)		d-BHC	6.216	7.109	250.8E6	361.9E6	67.153	87.399	#
7)		Aldrin	6.634	7.423	442.1E6	451.8E6	109.406	104.539	
8)		Heptachlo...	7.094	7.861	379.9E6	402.8E6	102.870	112.210	
9)		trans-Chl...	7.191	8.001	373.7E6	405.1E6	99.380	108.942	
10)		cis-Chlor...	7.287	8.108	383.8E6	385.3E6	104.526	109.372	
11)		Endosulfa...	7.380	8.158	405.5E6	356.4E6	116.902	107.845	
12)		4,4'-DDE	7.363	8.219	288.7E6	340.2E6	86.932	92.213	
13)		Dieldrin	7.553	8.357	406.8E6	423.0E6	106.690	104.866	
14)		Endrin	7.715	8.584	354.8E6	336.3E6	108.723	100.616	
15)		4,4'-DDD	7.781	8.634	207.3E6	269.9E6	81.458	92.560	
16)		Endosulfa...	7.872	8.733	288.9E6	315.6E6	96.557	101.101	
17)		4,4'-DDT	7.977	8.858	235.7E6	274.1E6	87.691	90.668	
18)		Endrin Al...	8.160	8.969	242.9E6	273.7E6	92.268	103.535	
19)		Endosulfa...	8.460	9.159	274.5E6	298.9E6	95.918	100.950	
20)		Methoxychlor	8.324	9.339	88510981	115.4E6	73.353	88.554	
21)		Endrin Ke...	8.652	9.558	328.0E6	351.8E6	94.901	104.486	
23)		Hexachlor...	2.945	3.567	55281	28877	0.014	0.006	#
24)		Hexachlor...	5.551	6.325	417888	47121	0.124	BelowCal	#
25)		Oxychlordane	7.032	7.795	1780457	35236	0.400	0.011	#
26)		2,4'-DDE	7.094f	8.001	379.9E6	405.1E6	164.301	178.217	
27)		trans-Non...	7.287	8.062	383.8E6	1435176	104.699	0.398	#
28)		2,4'-DDD	0.000	8.357	0	423.0E6	N.D.	220.957	#
29)		2,4'-DDT	7.661	8.584	2064216	336.3E6	0.863	127.135	#
30)		cis-Nonac...	7.781f	8.634	207.3E6	269.9E6	50.943	67.719	#
31)		Mirex	8.404	9.558	2369015	351.8E6	0.772	156.609	#
32)		Chlordane...	7.191	8.001	373.7E6	405.1E6	933.186	932.362	
33)		Chlordane...	7.287	8.108	383.8E6	385.3E6	789.276	1059.761	#
34)		Chlordane...	7.872f	0.000	288.9E6	0	2218.600	N.D.	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.287	8.357	383.8E6	423.0E6	23449.032	14353.174	#
37)		Toxaphene...	0.000	8.733	0	315.6E6	N.D.	7854.085	#
38)		Toxaphene...	7.872f	8.733	288.9E6	315.6E6	4290.478	4878.900	
39)		Toxaphene...	8.160	8.826	242.9E6	2247821	3602.786	19.164	#
40)		Toxaphene...	8.404f	8.969f	2369015	273.7E6	43.707	4774.489	#
41)		Toxaphene...	8.460	9.339f	274.5E6	115.4E6	3609.713	1747.768	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

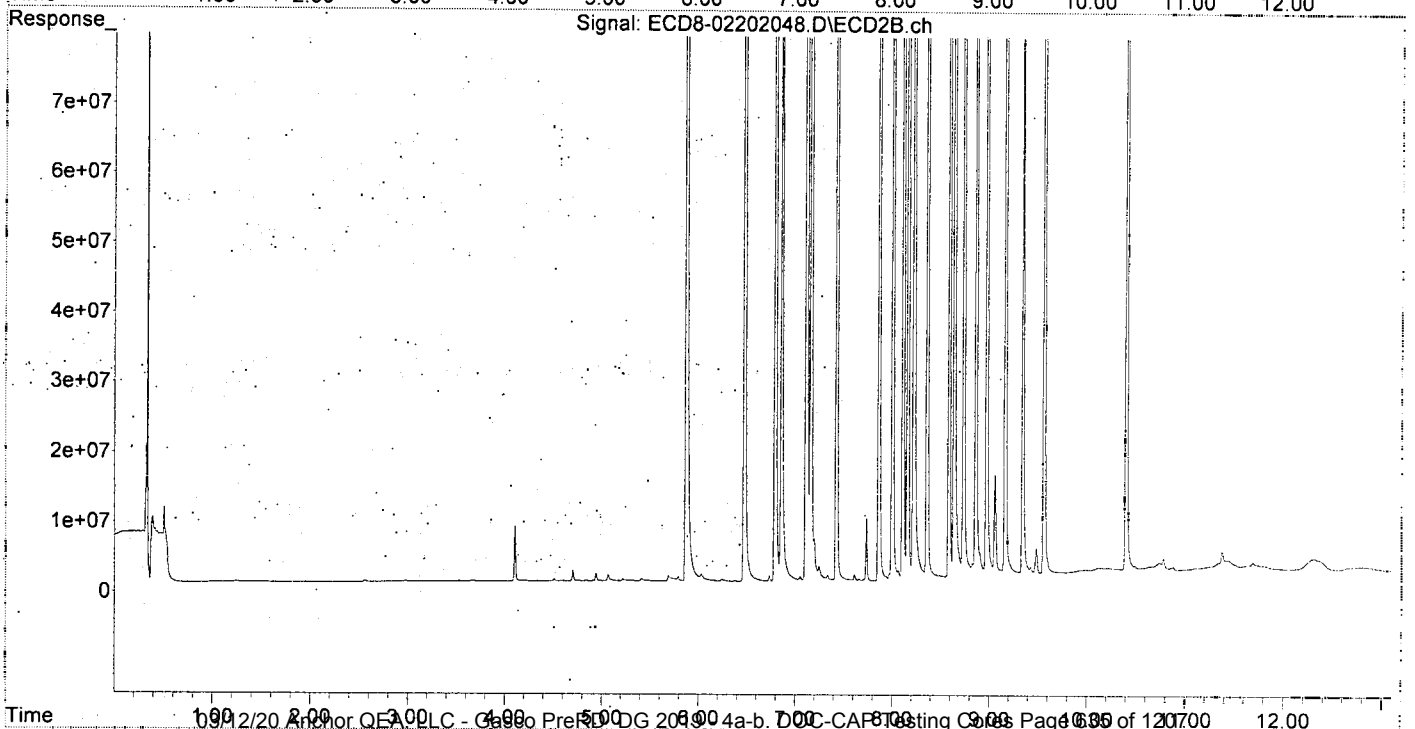
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 00:58
Operator : MJB
Sample : 0B20033-CCV5A MJB 2/24/20
Misc : A19K134, AB 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 1:15
Operator : MJB
Sample : 0B20033-CCV
Misc : A19J409, 9-42 100 ppb
ALS Vial : 7 Sample Multiplier: 1

MJB 2/24/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/24/20

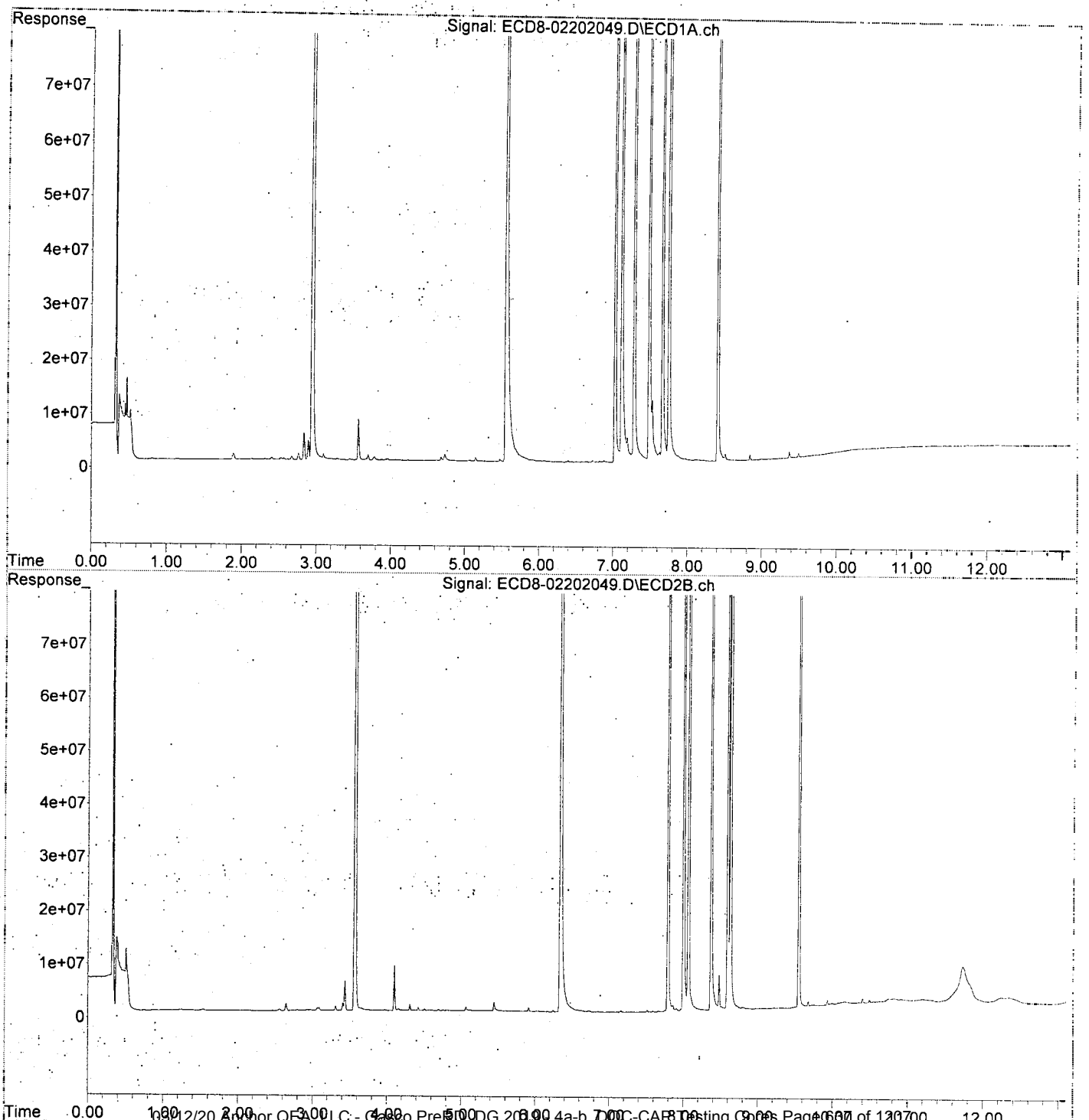
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.144f	5.874	626087	122663	0.179	0.036	#
22)	S DCBP (S)	9.371	10.400	1261005	1706445	0.159	0.337	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	5.986	6.796	239917	60296	0.058	0.058	
4)	b-BHC	6.070	6.860	288390	107554	0.166	0.062	#
5)	Heptachlor	6.395	7.158	341900	293047	0.083	0.070	
6)	d-BHC	6.228	7.113	108100	75602	0.138	0.119	
7)	Aldrin	6.637	7.422	67379	45057	0.017	0.024	#
8)	Heptachlo...	7.112	7.859	208.4E6	1206080	56.427	0.336	#
9)	trans-Chl...	7.191	7.997	4579387	237.5E6	1.218	63.869	#
10)	cis-Chlor...	7.282	0.000	383.3E6	0	104.370	N.D.	#
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.000	8.262f	0	334702	N.D.	0.196	#
13)	Dieldrin	7.527f	8.369	11436951	198.7E6	2.999	52.757	#
14)	Endrin	7.750f	8.592	428.4E6	239.9E6	131.253	74.503	#
15)	4,4'-DDD	7.750f	8.629	428.4E6	449.8E6	168.316	139.915	
16)	Endosulfa...	7.876	8.714f	1051558	884181	0.352	0.305	
17)	4,4'-DDT	7.978	8.860	397799	347559	0.148	0.116	
18)	Endrin Al...	8.167	8.970	171470	266102	0.065	0.101	#
19)	Endosulfa...	0.000	9.162	0	247407	N.D.	0.010	#
20)	Methoxychlor	8.331	9.337	12909	228621	0.011	BelowCal	#
21)	Endrin Ke...	8.657	9.547	125200	258.4E6	0.036	79.757	#
23)	Hexachlor...	2.944	3.566	409.0E6	535.8E6	104.910	110.665	
24)	Hexachlor...	5.550	6.335	266.4E6	298.8E6	79.235 R-31	89.658	
25)	Oxychlordane	7.024	7.790	327.9E6	352.7E6	104.960	110.295	
26)	2,4'-DDE	7.112	7.997	208.4E6	237.5E6	90.124	104.483	
27)	trans-Non...	7.282	8.065	383.3E6	386.9E6	104.544	107.199	
28)	2,4'-DDD	7.482	8.369	168.5E6	198.7E6	87.008	103.813	
29)	2,4'-DDT	7.663	8.592	231.9E6	239.9E6	96.893	95.341	
30)	cis-Nonac...	7.750	8.629	428.4E6	449.8E6	105.263	112.860	
31)	Mirex	8.410	9.547	263.4E6	258.4E6	110.045	117.267	
32)	Chlordane...	7.191	7.997	4579387	237.5E6	11.435	546.617	#
33)	Chlordane...	7.282	0.000	383.3E6	0	788.102	N.D.	#
34)	Chlordane...	7.876f	8.797f	1051558	547679	8.077	4.612	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.282f	8.369	383.3E6	198.7E6	23414.159	6743.593	#
37)	Toxaphene...	7.628f	8.714	1807443	884181	57.534	22.001	#
38)	Toxaphene...	7.876f	8.714f	1051558	884181	11.780	13.667	
39)	Toxaphene...	8.167	8.797f	171470	547679	BelowCal	1.510	
40)	Toxaphene...	8.410f	9.003	263.4E6	185981	4860.453	3.244	#
41)	Toxaphene...	8.410f	9.386	263.4E6	198478	3463.955	3.005	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 1:15
Operator : MJB MJB 2/24/20
Sample : 0B20033-CCV@B
Misc : A19J409, 9-42 100 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202050.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 1:32
Operator : MJB
Sample : 0B20033-CCB4
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/24/20

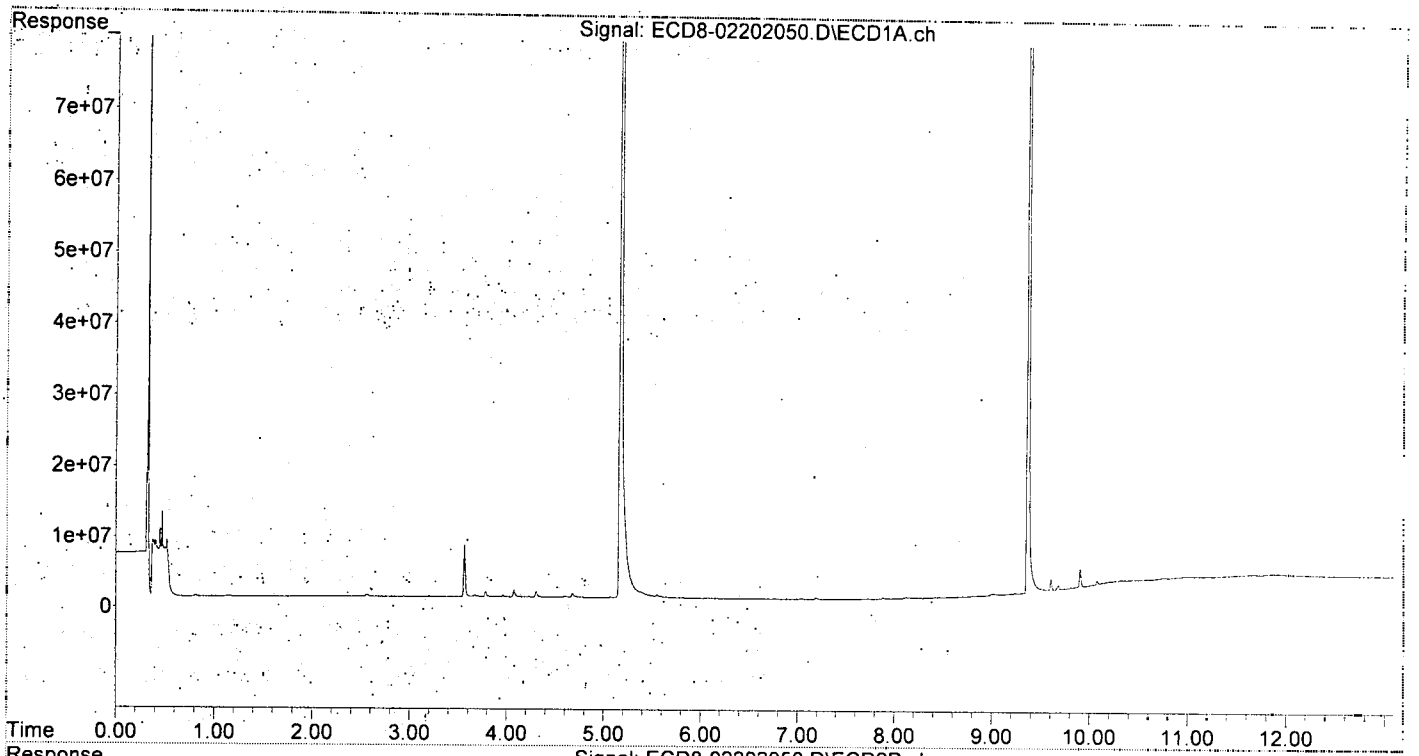
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.168	5.867	279.7E6	308.3E6	80.013	89.369	
22)	S	DCBP (S)	9.370	10.400	254.3E6	244.3E6	95.023	108.034	
		Target Compounds							
2)		a-BHC	0.000	6.452f	0	47524	N.D.	0.087	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.082	6.870	90301	15193	0.052	0.009	#
5)		Heptachlor	0.000	7.163	0	83389	N.D.	0.020	#
6)		d-BHC	0.000	7.130	0	58877	N.D.	0.114	#
7)		Aldrin	6.644	7.454f	51056	128782	0.013	0.046	#
8)		Heptachlo...	0.000	7.828f	0	81412	N.D.	0.023	#
9)		trans-Chl...	7.194	8.015	188112	232750	0.050	0.063	#
10)		cis-Chlor...	7.295	8.117	42901	254539	0.012	0.072	#
11)		Endosulfa...	0.000	8.164	0	232610	N.D.	0.070	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	7.563	0.000	19136	0	0.005	N.D.	#
14)		Endrin	7.716	0.000	14595	0	0.004	N.D.	#
15)		4,4'-DDD	7.796	0.000	12709	0	0.005	N.D.	#
16)		Endosulfa...	7.885	8.721	154576	733769	0.052	0.248	#
17)		4,4'-DDT	7.979	0.000	16858	0	0.006	N.D.	#
18)		Endrin Al...	8.170	8.976	128903	280373	0.049	0.106	#
19)		Endosulfa...	8.467	9.163	62038	201456	0.022	BelowCal	#
20)		Methoxychlor	8.323	9.338	41370	205552	0.034	BelowCal	#
21)		Endrin Ke...	8.658	9.582	44778	542115	0.013	BelowCal	#
23)		Hexachlor...	2.944	3.587	51745	51117	0.013	0.011	
24)		Hexachlor...	5.552	6.329	262392	93971	0.078	BelowCal	#
25)		Oxychlordane	7.045	7.793	126793	83575	BelowCal	0.026	
26)		2,4'-DDE	0.000	8.015	0	232750	N.D.	0.102	#
27)		trans-Non...	7.291	8.094f	38873	269647	0.011	0.075	#
28)		2,4'-DDD	7.490	0.000	7006	0	0.004	N.D.	#
29)		2,4'-DDT	7.672	0.000	32516	0	0.014	N.D.	#
30)		cis-Nonac...	7.756	0.000	22582	0	0.006	N.D.	#
31)		Mirex	8.414	9.582f	60904	542115	8199.104	0.010	#
32)		Chlordane...	7.194	8.015	188112	232750	0.470	0.536	
33)		Chlordane...	7.295	8.117	42901	254539	0.088	0.700	#
34)		Chlordane...	7.842	8.799f	7911	633727	0.061	5.336	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.295	0.000	42901	0	2.621	N.D.	#
37)		Toxaphene...	7.601	8.721	7884	733769	0.251	18.258	#
38)		Toxaphene...	7.919	8.721f	33055	733769	96753.467	11.342	#
39)		Toxaphene...	8.170f	8.799f	128903	633727	BelowCal	2.405	
40)		Toxaphene...	8.376	8.976f	45295	280373	0.836	4.891	#
41)		Toxaphene...	8.443	9.338f	34474	205552	0.453	3.112	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

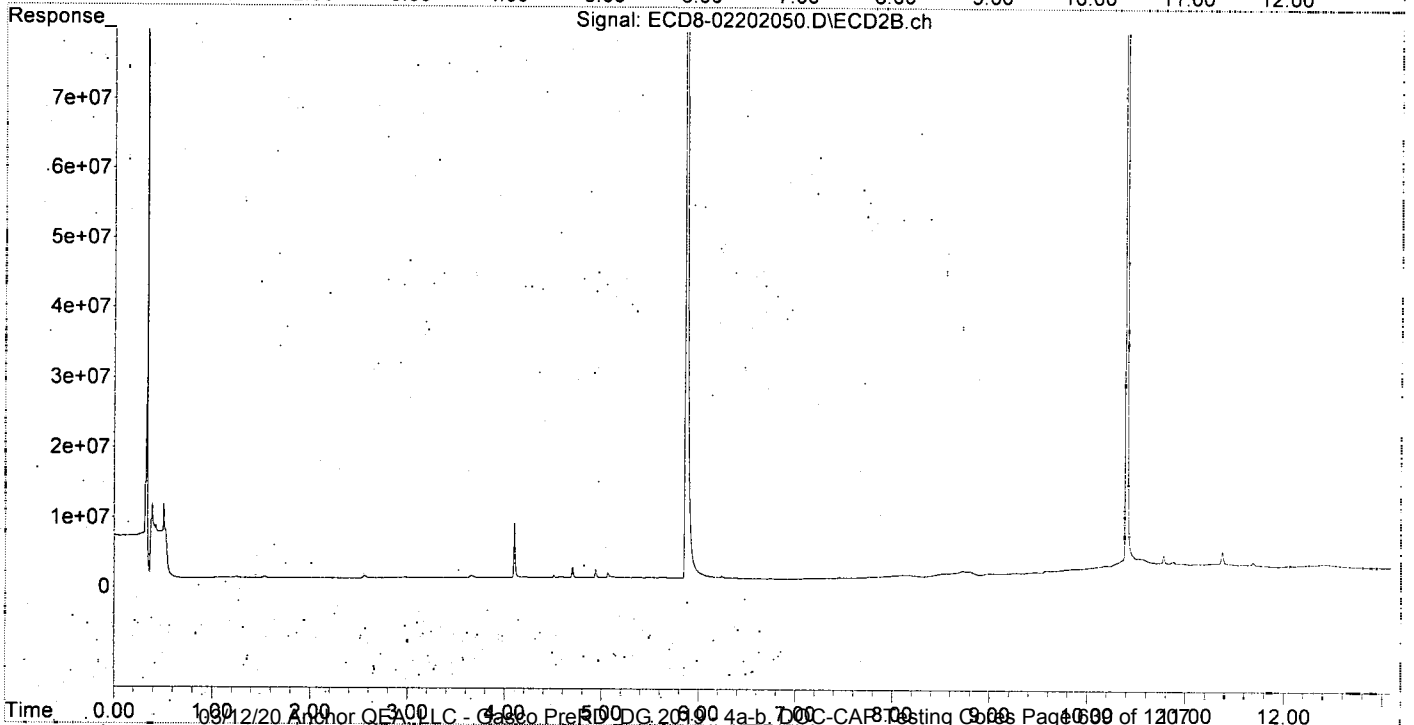
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B20033\
Data File : ECD8-02202050.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 1:32
Operator : MJB
Sample : 0B20033-CCB4
Misc : A20A395
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 10:35:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Sequence 0B21033 (A0A1011-01RE1)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B21033** Instrument: **DUALECD8**

Date: **02/21/20 11:16** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B21033-BKD1	Soil	QC	QC				A20A019
2	0B21033-CCV1	Soil	QC	QC				A19K133
3	0B21033-CCB1	Soil	QC	QC				A20A395
4	0020632-BLK1	Soil	QC	QC		0020632		
5	0020632-BS1	Soil	QC	QC		0020632		
6	A0B0252-01RE3	Soil	8081B Pesticides		02/21/20	0020632		
7	A0B0520-01RE2	Soil	8081B Pesticides		02/21/20	0020632		
8	0020632-DUP1	Soil	QC	QC		0020632		
9	A0B0520-02RE2	Soil	8081B Pesticides		02/21/20	0020632		
10	0020632-MS1	Soil	QC	QC		0020632		
11	0B21033-CCV2	Soil	QC	QC				A19K134
12	0B21033-CCB2	Soil	QC	QC				A20A395
13	0020634-BLK1	Soil	QC	QC		0020634		
14	0020634-BS1	Soil	QC	QC		0020634		
15	A0B0268-01RE3	Soil	8081B Pesticides		02/21/20	0020634		
16	0020634-DUP1	Soil	QC	QC		0020634		
17	A0B0268-02RE3	Soil	8081B Pesticides		02/21/20	0020634		
18	0020634-MS1	Soil	QC	QC		0020634		
19	0B21033-CCV3	Soil	QC	QC				A19K133
20	0B21033-CCV4	Soil	QC	QC				A19J408
21	0B21033-CCB3	Soil	QC	QC				A20A395
22	A0A0991-01RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
23	0B21033-IBL1	Soil	QC	QC				
24	0020205-DUP2	Sediment	QC	QC		0020205		
25	0B21033-IBL2	Soil	QC	QC				
26	A0A0991-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
27	0B21033-IBL3	Soil	QC	QC				
28	A0A0994-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
29	0B21033-IBL4	Soil	QC	QC				
30	A0A0994-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
31	0B21033-IBL5	Soil	QC	QC				
32	A0A0996-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
33	0B21033-IBL6	Soil	QC	QC				
34	A0A0996-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
35	0B21033-IBL7	Soil	QC	QC				
36	A0A0996-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
37	0B21033-IBL8	Soil	QC	QC				
38	A0A0996-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
39	0B21033-IBL9	Soil	QC	QC				
40	A0A1011-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
41	0B21033-IBLA	Soil	QC	QC				
42	0B21033-CCV5	Soil	QC	QC				A19K134
43	0B21033-CCV6	Soil	QC	QC				A19J409
44	0B21033-CCB4	Soil	QC	QC				A20A395
45	0B21033-IBLB	Soil	QC	QC				

Data Entered By: MB 2/25/20

Comments: Complete

Data Reviewed By: MM 2/26/20

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B21033** Instrument: **DUALECD8**

Date: **02/21/20 11:16** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B21033-BKD1	Soil	QC	QC				A20A019
2	0B21033-CCV1	Soil	QC	QC				A19K133
3	0B21033-CCB1	Soil	QC	QC				A20A395
4	0020632-BLK1	Soil	QC	QC		0020632		
5	0020632-BS1	Soil	QC	QC		0020632		
6	A0B0252-01RE3	Soil	8081B Pesticides		02/21/20	0020632		
7	A0B0520-01RE2	Soil	8081B Pesticides		02/21/20	0020632		
8	0020632-DUP1	Soil	QC	QC		0020632		
9	A0B0520-02RE2	Soil	8081B Pesticides		02/21/20	0020632		
10	0020632-MS1	Soil	QC	QC		0020632		
11	0B21033-CCV2	Soil	QC	QC				A19K134
12	0B21033-CCB2	Soil	QC	QC				A20A395
13	0020634-BLK1	Soil	QC	QC		0020634		
14	0020634-BS1	Soil	QC	QC		0020634		
15	A0B0268-01RE3	Soil	8081B Pesticides		02/21/20	0020634		
16	0020634-DUP1	Soil	QC	QC		0020634		
17	A0B0268-02RE3	Soil	8081B Pesticides		02/21/20	0020634		
18	0020634-MS1	Soil	QC	QC		0020634		
19	0B21033-CCV3	Soil	QC	QC				A19K133
20	0B21033-CCV4	Soil	QC	QC				A19J408
21	0B21033-CCB3	Soil	QC	QC				A20A395

Data Entered By: MJB 2/21/20 Comments: Partial

Data Reviewed By: [signature] 2/24/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:00
Operator : MJB
Sample : 0B21033-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 12:17:26 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT5.M RT update
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	7.574	12800250	NoCal	ng/mL
2)	Endrin	7.941	1540869483	NoCal	ng/mL
3)	4,4'-DDD	7.992	39704423	NoCal	ng/mL
4)	4,4'-DDT	8.191	2363539415	NoCal	ng/mL
5)	Endrin Aldehyde	8.384	55047757	NoCal	ng/mL
6)	Endrin Ketone	8.878	44425806	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.437	16838726	NoCal	ng/mL
9)	Endrin [2C]	8.817	1337269917	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.852	33472106	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.199	26955959	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.080	2315113045	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.792	46357381	NoCal	ng/mL

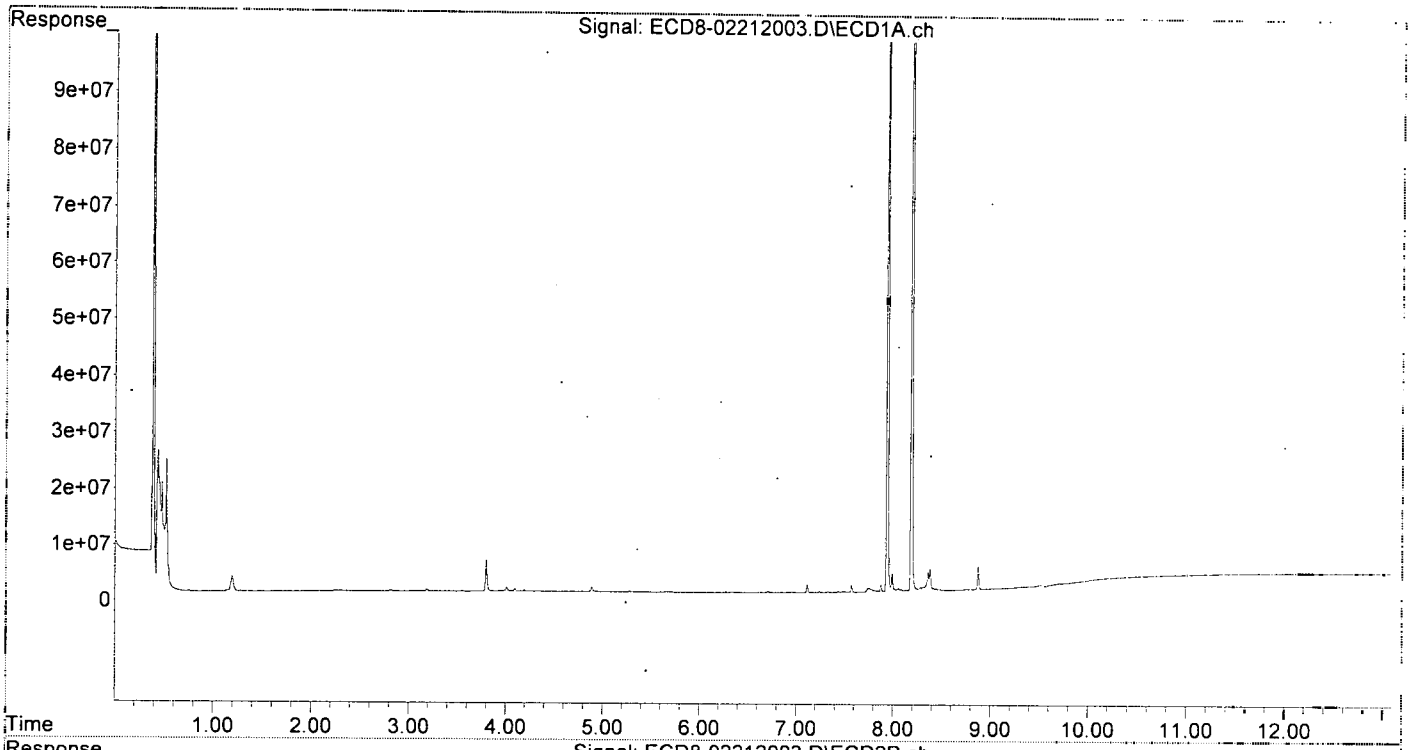
(f)=RT Delta > 1/2 Window (m)=manual int.

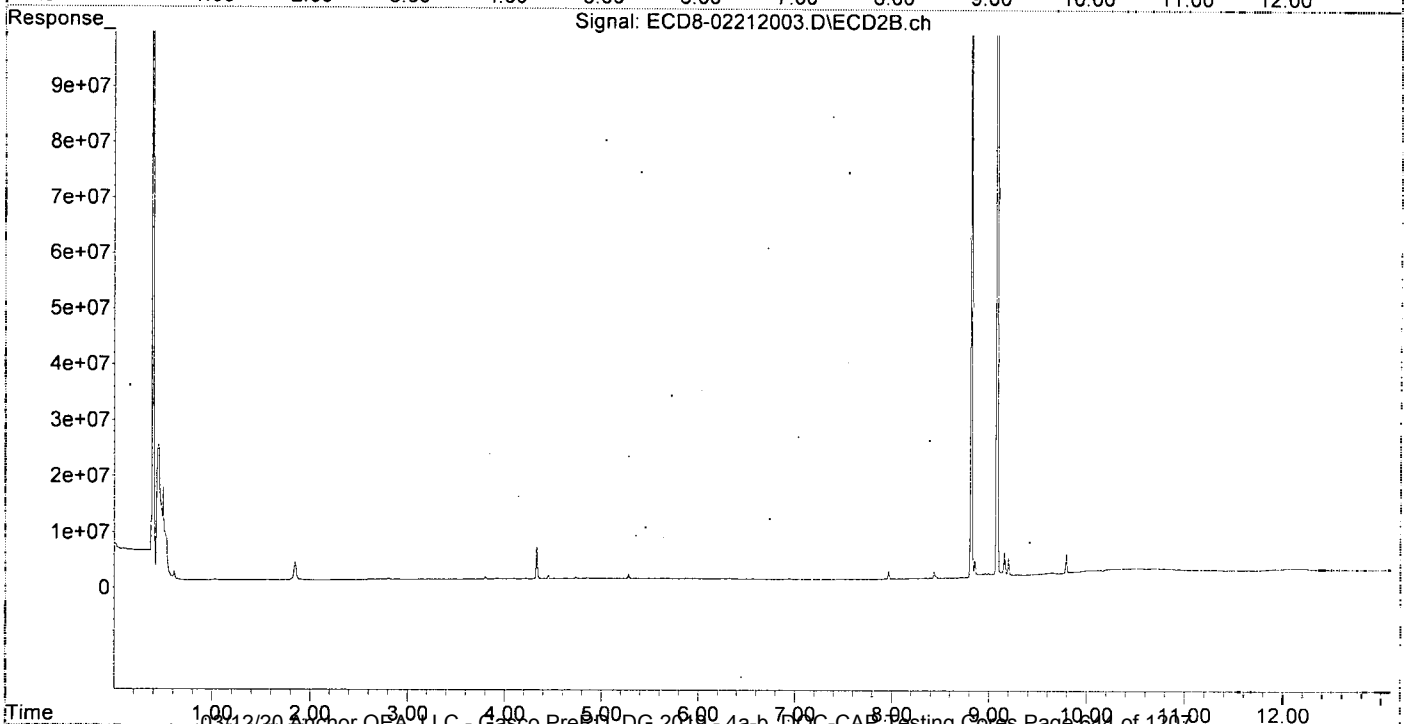
MP 2/21/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:00
Operator : MJB
Sample : 0B21033-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 12:17:26 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT5.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:16
Operator : MJB
Sample : 0B21033-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M RT update
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

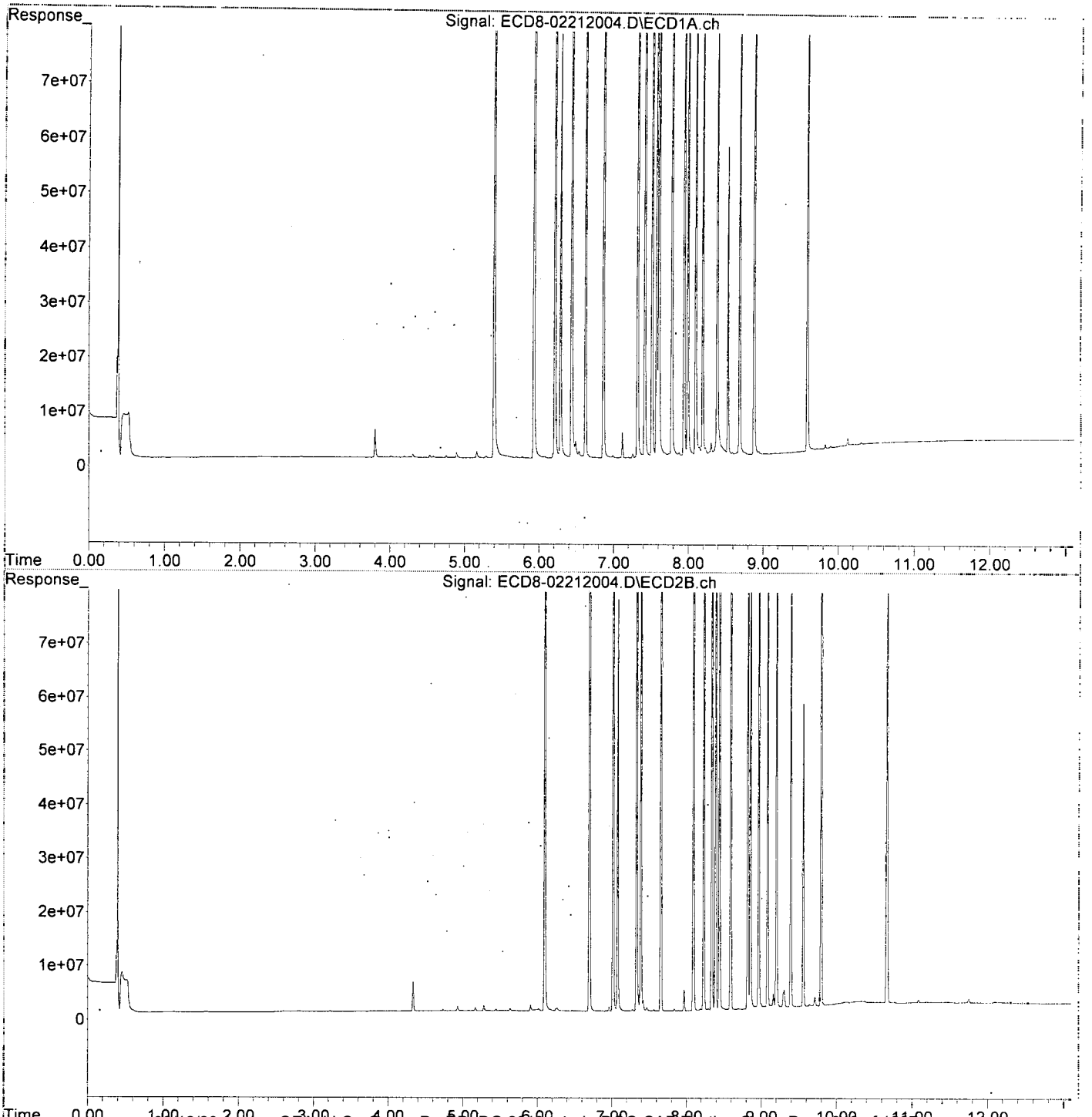
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.394	6.096	152.4E6	162.5E6	43.579	47.110	
22)	S DCBP (S)	9.587	10.663	120.6E6	96862219	45.900	45.299	
	Target Compounds							
2)	a-BHC	5.928	6.696	224.1E6	218.9E6	47.425	47.087	
3)	g-BHC	6.209	7.013	191.8E6	183.8E6	46.064	44.085	
4)	b-BHC	6.285	7.075	77783855	76806678	44.661	44.242	
5)	Heptachlor	6.621	7.387	168.3E6	155.8E6	40.941	36.997	Q-3
6)	d-BHC	6.433	7.329	174.0E6	182.4E6	47.662	47.464	
7)	Aldrin	6.862	7.654	191.9E6	174.2E6	47.497	43.743	
8)	Heptachlo...	7.319	8.089	164.8E6	163.1E6	44.639	45.437	
9)	trans-Chl...	7.416	8.229	172.2E6	159.9E6	45.787	42.996	
10)	cis-Chlor...	7.512	8.336	169.7E6	157.2E6	46.199	44.621	
11)	Endosulfa...	7.606	8.388	156.9E6	148.1E6	45.243	44.810	
12)	4,4'-DDE	7.575	8.437	169.2E6	164.0E6	50.962	48.121	
13)	Dieldrin	7.778	8.588	177.6E6	163.6E6	46.574	43.972	
14)	Endrin	7.942	8.816	144.2E6	130.0E6	44.185	42.357	
15)	4,4'-DDD	7.992	8.852	120.2E6	116.0E6	47.230	44.425	
16)	Endosulfa...	8.097	8.963	126.0E6	127.6E6	42.127	44.754	
17)	4,4'-DDT	8.191	9.080	120.5E6	117.7E6	44.826	43.206	
18)	Endrin Al...	8.385	9.199	107.3E6	107.0E6	40.759	40.491	
19)	Endosulfa...	8.685	9.389	117.8E6	116.1E6	41.171	43.001	
20)	Methoxychlor	8.529	9.555	56873132	56567129	47.133	47.338	
21)	Endrin Ke...	8.879	9.792	138.9E6	127.5E6	40.181	41.801	
23)	Hexachlor...	3.193f	3.804	52224	55229	0.013	0.011	
24)	Hexachlor...	5.775	6.569	278376	75944	0.083	BelowCal	#
25)	Oxychlordane	7.256	8.012	804914	35912	0.082	0.011	#
26)	2,4'-DDE	7.319f	8.229	164.8E6	159.9E6	71.296	70.337	
27)	trans-Non...	7.512	8.291	169.7E6	364906	46.275	0.101	#
28)	2,4'-DDD	7.691	8.588	744990	163.6E6	0.385	85.487	#
29)	2,4'-DDT	7.878	8.816	772001	130.0E6	0.323	55.231	#
30)	cis-Nonac...	7.992	8.852	120.2E6	116.0E6	29.537	29.106	
31)	Mirex	8.621	9.792	289586	127.5E6	8199.009	59.466	#
32)	Chlordane...	7.416	8.229	172.2E6	159.9E6	429.944	367.978	
33)	Chlordane...	7.512	8.336	169.7E6	157.2E6	348.847	432.359	
34)	Chlordane...	8.097f	8.993	126.0E6	940049	967.948	7.916	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.512	8.588	169.7E6	163.6E6	10364.090	5553.177	#
37)	Toxaphene...	0.000	8.963f	0	127.6E6	N.D.	3176.062	#
38)	Toxaphene...	8.148	8.963	1656724	127.6E6	20.379	1972.946	#
39)	Toxaphene...	8.385	9.035	107.3E6	404422	1620.035	0.021	#
40)	Toxaphene...	8.592	9.199f	504142	107.0E6	9.301	1867.233	#
41)	Toxaphene...	8.685f	0.000	117.8E6	0	1549.388	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:16
Operator : MJB
Sample : 0B21033-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:33
Operator : MJB
Sample : 0B21033-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

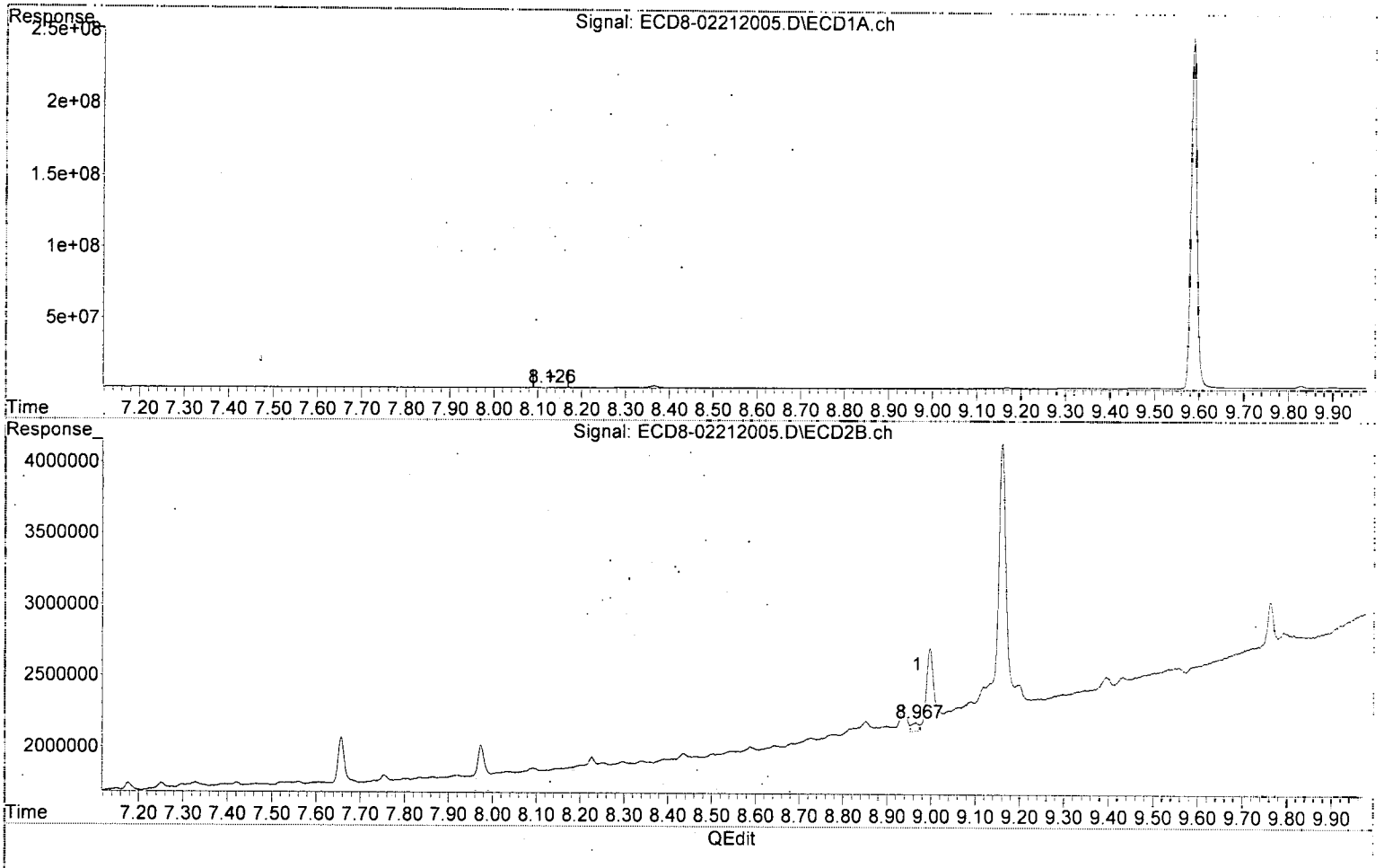
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.394	6.096	300.5E6	341.3E6	85.951	98.955
22) S	DCBP (S)	9.588	10.663	247.0E6	200.7E6	92.421	90.211
	Target Compounds						
2)	a-BHC	5.937	0.000	53942	0	0.011	N.D. #
3)	g-BHC	0.000	6.999	0	14263	N.D.	0.046 #
4)	b-BHC	6.287	7.076	145546	16157	0.084	0.009 #
5)	Heptachlor	6.660f	7.385	32408	19884	0.008	0.005 #
6)	d-BHC	6.434	7.328	27795	41241	0.115	0.109
7)	Aldrin	6.863	7.657	11583	323901	0.003	0.099 #
8)	Heptachlo...	7.319	8.094	23653	28660	0.006	0.008
9)	trans-Chl...	7.394f	8.227	293191	77574	0.078	0.021 #
10)	cis-Chlor...	7.503	8.339	67336	23668	0.018	0.007 #
11)	Endosulfa...	7.609	8.392	20748	22354	0.006	0.007
12)	4,4'-DDE	7.574	8.435	45500	45391	0.014	0.103 #
13)	Dieldrin	7.779	8.588	26019	35930	0.007	0.042 #
14)	Endrin	7.939	8.823	17734	79310	0.005	0.020 #
15)	4,4'-DDD	7.991	8.851	41762	110824	0.016	0.090 #
16)	Endosulfa...	8.092	8.967	237183	58413	0.079	BelowCal #
17)	4,4'-DDT	8.211f	9.091	32984	156882	0.012	0.038 #
18)	Endrin Al...	8.366	9.200	1359884	228331	0.517	0.086 #
19)	Endosulfa...	8.684	9.394	67108	206375	0.023	BelowCal #
20)	Methoxychlor	8.556f	9.548	64987	208725	0.054	BelowCal #
21)	Endrin Ke...	8.879	9.792	58081	361270	0.017	BelowCal #
23)	Hexachlor...	3.189	3.813f	32086	70969	0.008	0.015 #
24)	Hexachlor...	5.775	6.573	418215	97446	0.124	BelowCal #
25)	Oxychlordane	7.248	8.023	214393	12723	BelowCal	0.004
26)	2,4'-DDE	7.334	8.227	8944	77574	0.004	0.034 #
27)	trans-Non...	7.503	8.296	67336	26635	0.018	0.007 #
28)	2,4'-DDD	7.691	8.588	9784	35930	0.005	0.019 #
29)	2,4'-DDT	7.884	8.823	10653	79310	0.004	BelowCal #
30)	cis-Nonac...	7.991	8.851	41762	110824	0.010	0.028 #
31)	Mirex	8.643	9.762	31152	579674	8199.116	0.028 #
32)	Chlordane...	7.394f	8.227	293191	77574	0.732	0.179 #
33)	Chlordane...	7.503	8.339	67336	23668	0.138	0.065 #
34)	Chlordane...	8.048	8.997	104023	563321	0.799	4.744 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.550f	8.588	28492	35930	1.741	1.219 #
37)	Toxaphene...	7.829	8.938	6684	200751	0.213 Q-DEL	4.995 #
38)	Toxaphene...	8.126	8.967	12624	58413	~~26753.757~~	0.903 #
39)	Toxaphene...	8.366	9.039	1359884	112032	14.021	BelowCal #
40)	Toxaphene...	8.585	9.200	42738	228331	0.788	3.983 #
41)	Toxaphene...	8.652	9.589	26208	198667	0.345	3.008 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:33
Operator : MJB
Sample : 0B21033-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(38) Toxaphene (3)

8.126min 96753.757 ng/mL

response 12624

(38) Toxaphene (3) #2

8.967min 0.903 ng/mL

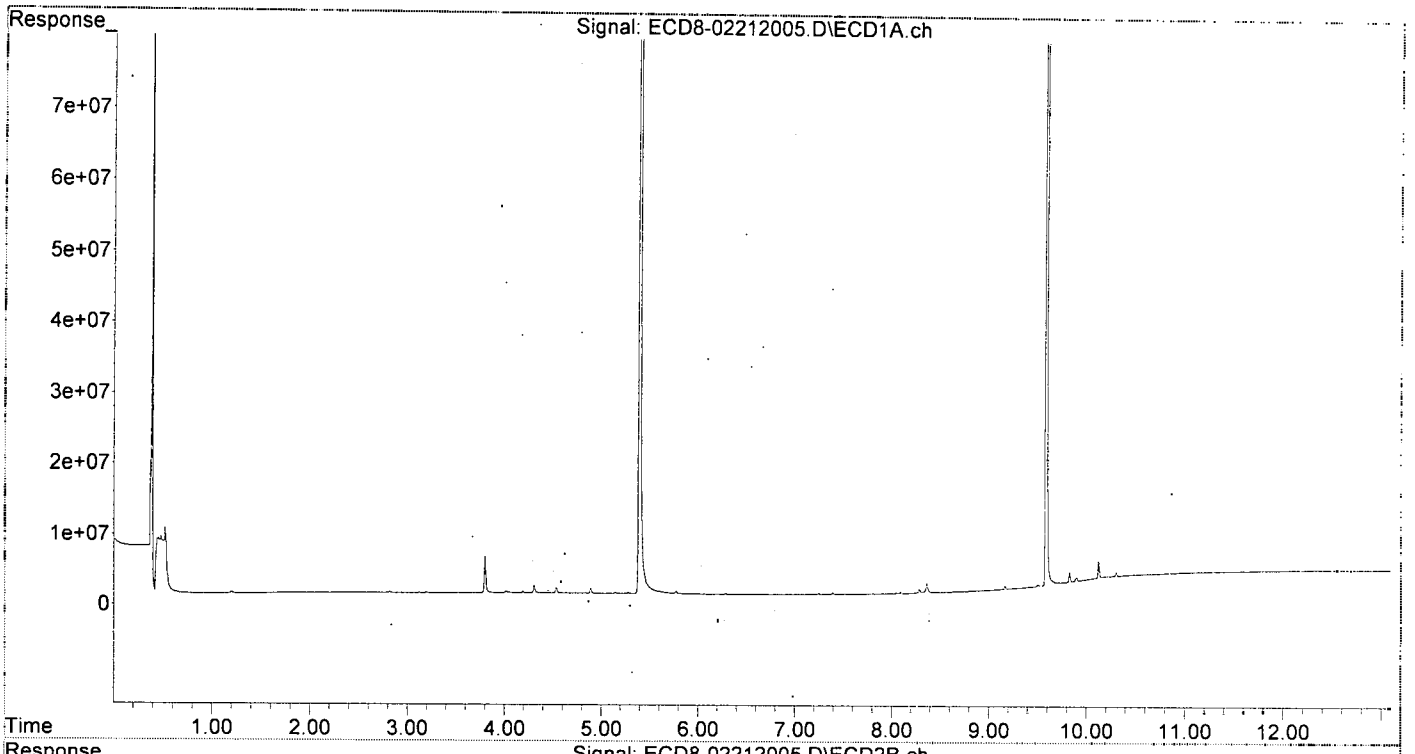
response 58413

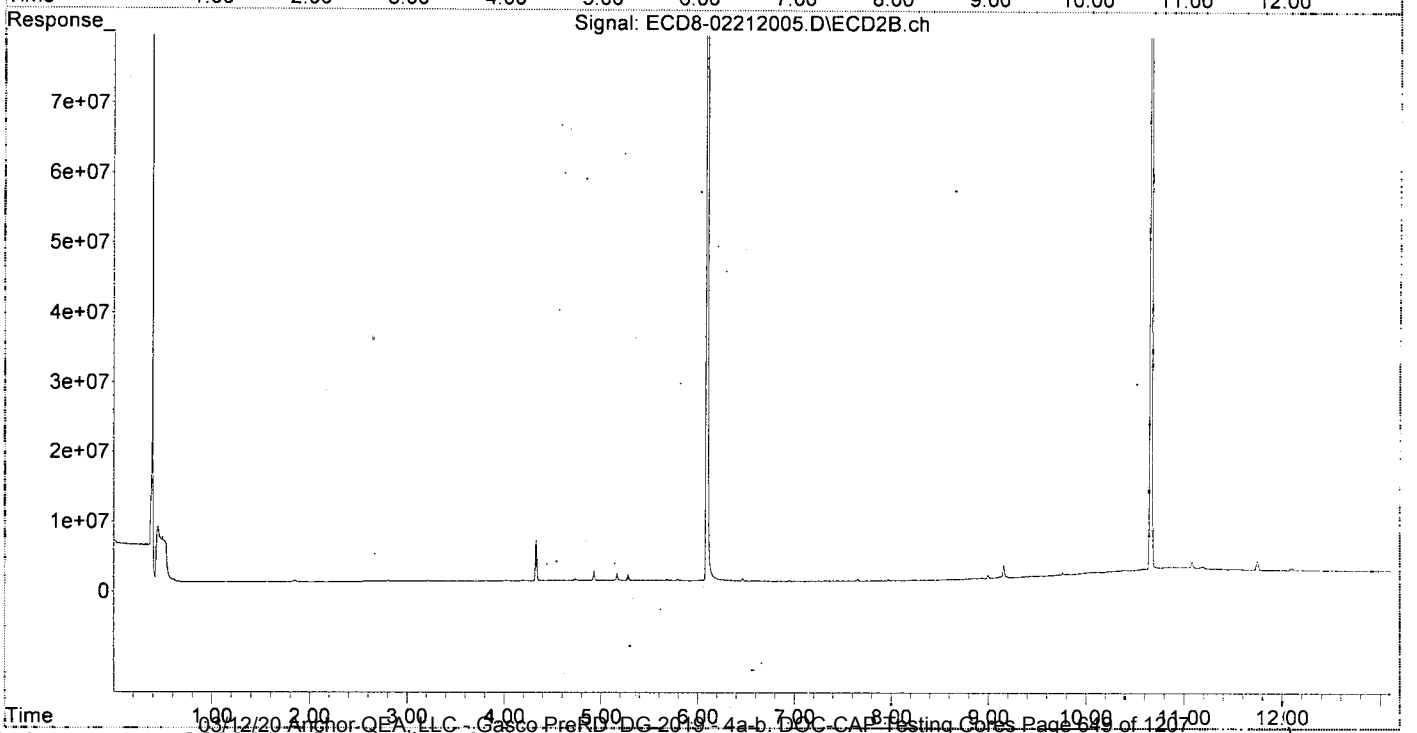
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:33
Operator : MJB
Sample : 0B21033-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/24/20

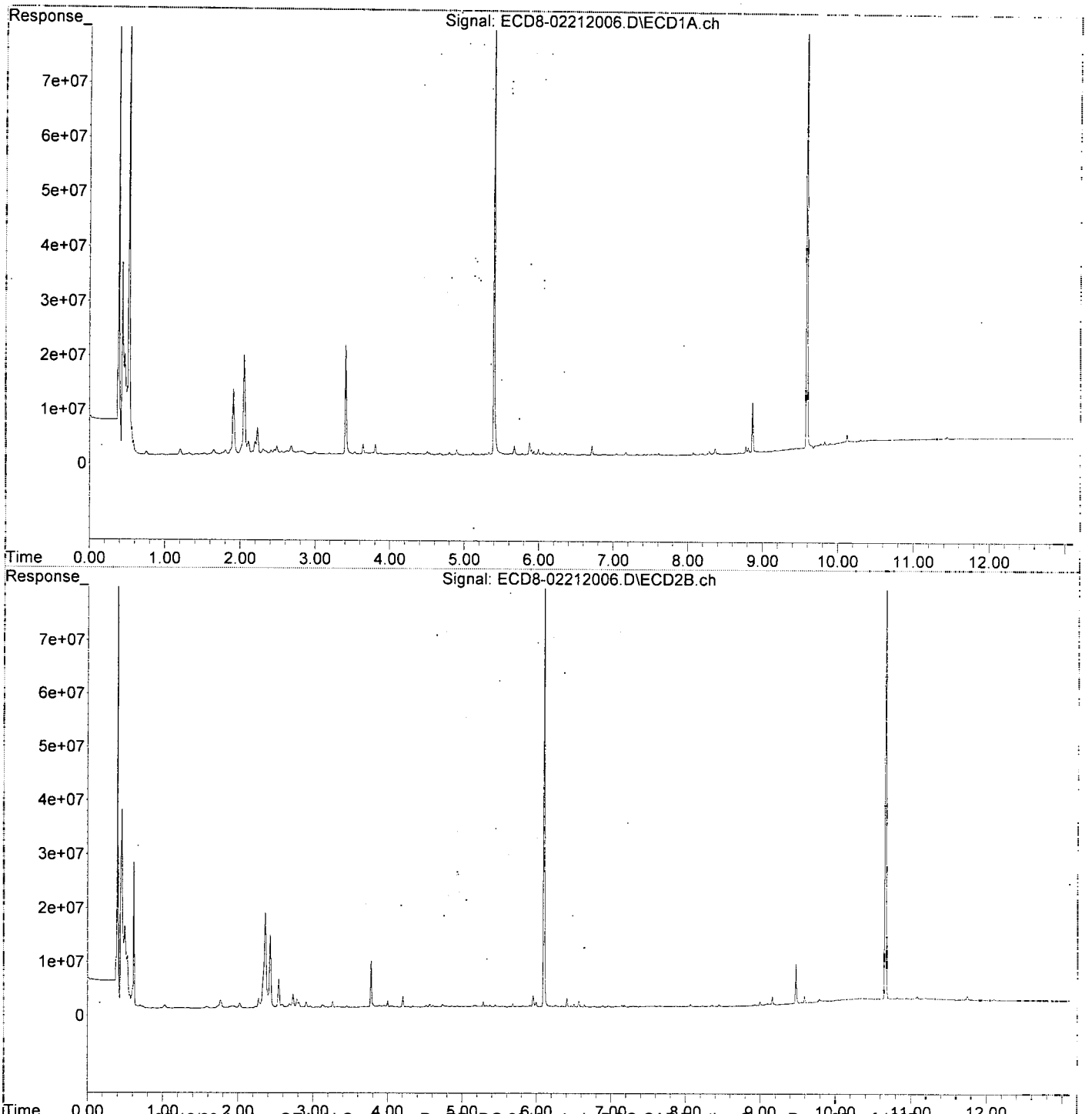
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.394	6.095	85060636	88336002	24.330	25.608	
22)	S	DCBP (S)	9.585	10.662	115.0E6	87831482	43.807	41.203	
		Target Compounds							
2)		a-BHC	5.931	6.694	807571	116203	0.171	0.103	#
3)		g-BHC	6.209	7.013	233225	133237	0.056	0.076	#
4)		b-BHC	6.281	7.062	458430	157049	0.263	0.090	#
5)		Heptachlor	6.618	7.387	162230	134666	0.039	0.032	
6)		d-BHC	6.437	7.330	192257	171810	0.162	0.147	
7)		Aldrin	6.860	7.656	247052	186996	0.061	0.062	
8)		Heptachlo...	7.317	8.088	234343	144207	0.063	0.040	#
9)		trans-Chl...	7.414	8.228	173048	137355	0.046	0.037	
10)		cis-Chlor...	7.510	8.354	152863	277256	0.042	0.079	#
11)		Endosulfa...	7.607	8.387	409191	96629	0.118	0.029	#
12)		4,4'-DDE	7.572	8.448	151377	373907	0.046	0.208	#
13)		Dieldrin	7.777	8.588	80467	63185	0.021	0.050	#
14)		Endrin	7.939	8.816	48129	72361	0.015	0.018	
15)		4,4'-DDD	7.999	8.854	81529	65605	0.032	0.071	#
16)		Endosulfa...	8.070f	8.964	429225	89613	0.143	0.004	#
17)		4,4'-DDT	8.196	9.076	203297	296547	0.076	0.095	#
18)		Endrin Al...	8.370	9.194	732300	204030	0.278m	0.077	#
19)		Endosulfa...	8.677	9.397	140147	304662	0.049	0.033	#
20)		Methoxychlor	8.529	9.552	79042	446556	0.066	0.047	#
21)		Endrin Ke...	8.870	9.785	4505209	967882	1.303m	0.120	#
23)		Hexachlor...	3.188	3.774	429859	8852712	0.110	1.828	#
24)		Hexachlor...	5.775	6.568	339713	1176291	0.101	0.355	#
25)		Oxychlordane	7.241	8.028	53472	90638	BelowCal	0.028	
26)		2,4'-DDE	7.317f	8.228	234343	137355	0.101	0.060	#
27)		trans-Non...	7.510	8.295	152863	66576	0.042	0.018	#
28)		2,4'-DDD	7.716	8.588	74316	63185	0.038	0.033	
29)		2,4'-DDT	7.903	8.816	32433	72361	0.014	BelowCal	#
30)		cis-Nonac...	7.958f	8.854	26921	65605	0.007	0.016	#
31)		Mirex	8.628	9.785	132124	967882	8199.074	0.215	#
32)		Chlordane...	7.414	8.228	173048	137355	0.432	0.316	#
33)		Chlordane...	7.510	8.354	152863	277256	0.314	0.763	#
34)		Chlordane...	8.070	8.995	429225	749083	3.297	6.308	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.510	8.588	152863	63185	9.338	2.144	#
37)		Toxaphene...	7.832	8.935	32918	173135	1.048	4.308	#
38)		Toxaphene...	0.000	8.964	0	89613	N.D. d	1.385	
39)		Toxaphene...	8.363	9.076f	1090845	296547	9.874	BelowCal	#
40)		Toxaphene...	8.590	9.244f	22805	175379	0.421	3.059	#
41)		Toxaphene...	8.677	9.586	140147	1658013	1.843	25.101	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

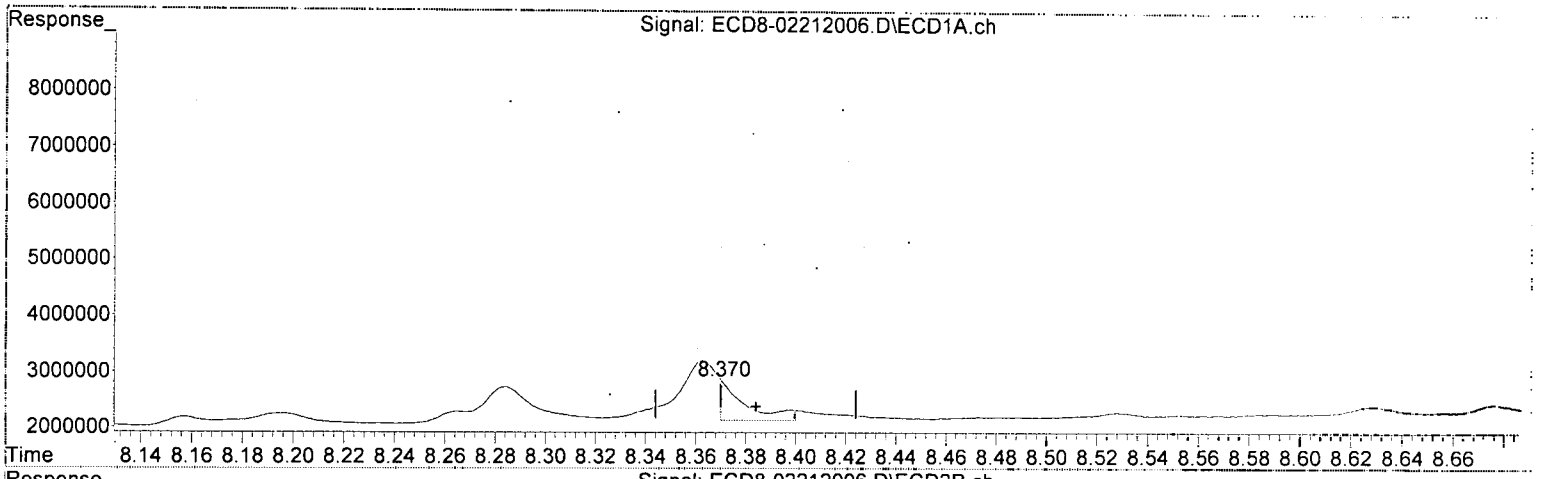
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

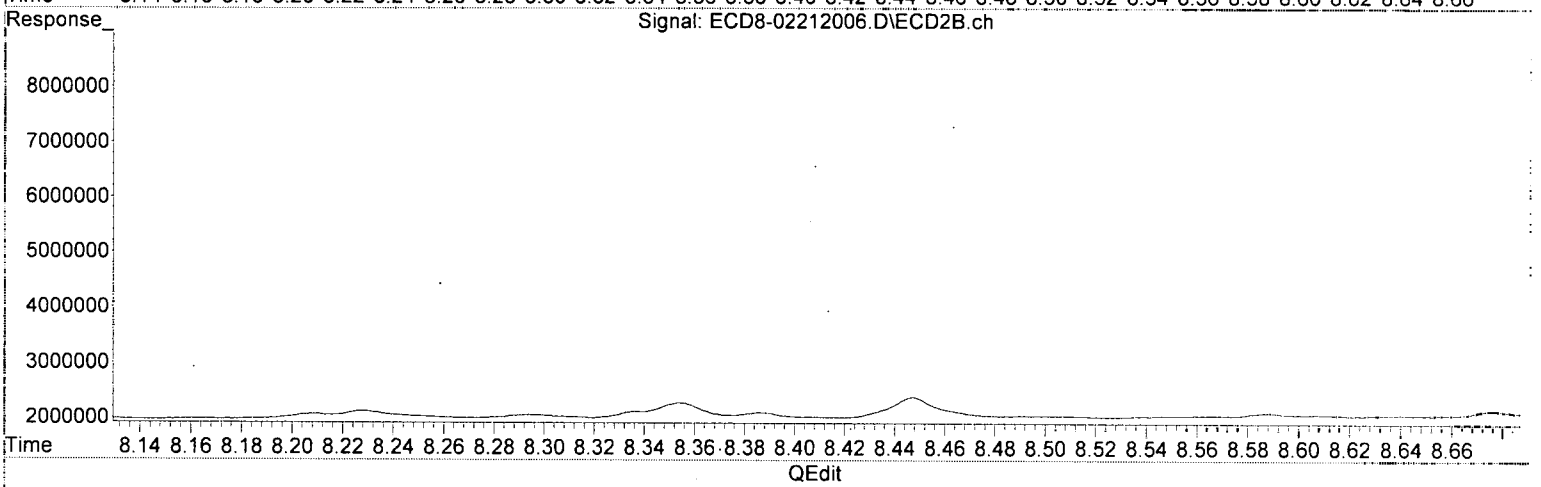


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(18) Endrin Aldehyde

8.370min 0.278 ng/mL (m)

response 732300

MJB 2/21/20

(18) Endrin Aldehyde #2

9.194min 0.077 ng/mL

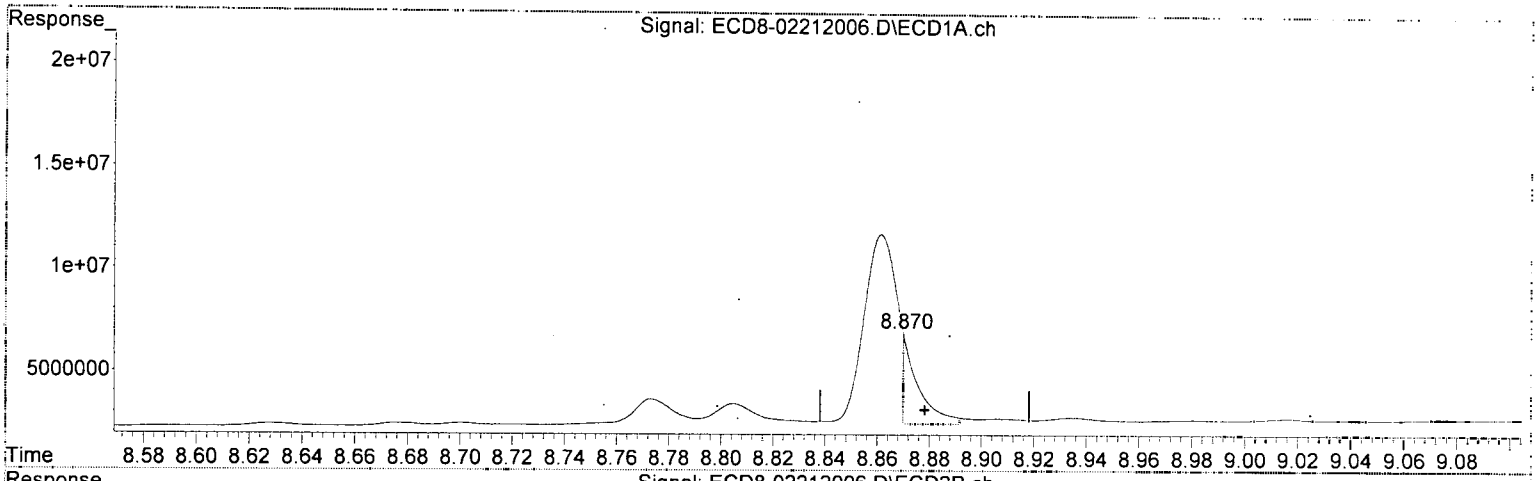
response 204030

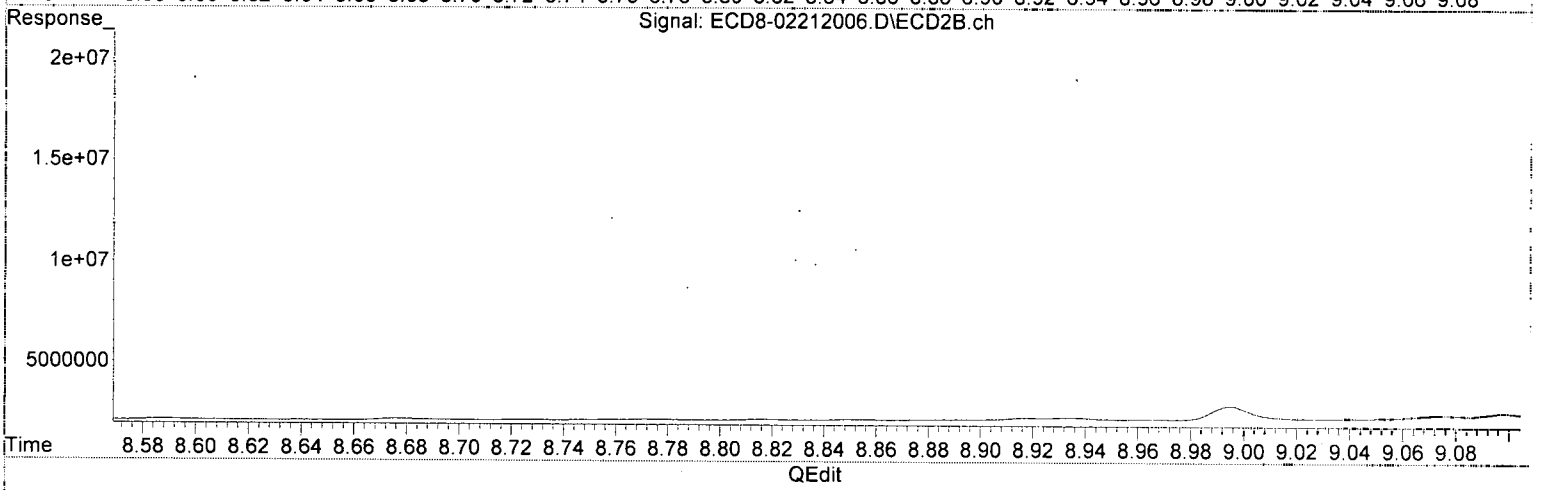
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(21) Endrin Ketone

8.870min 1.303 ng/mL m

response 4505209

MJB 2/21/20

(21) Endrin Ketone #2

9.785min 0.120 ng/mL

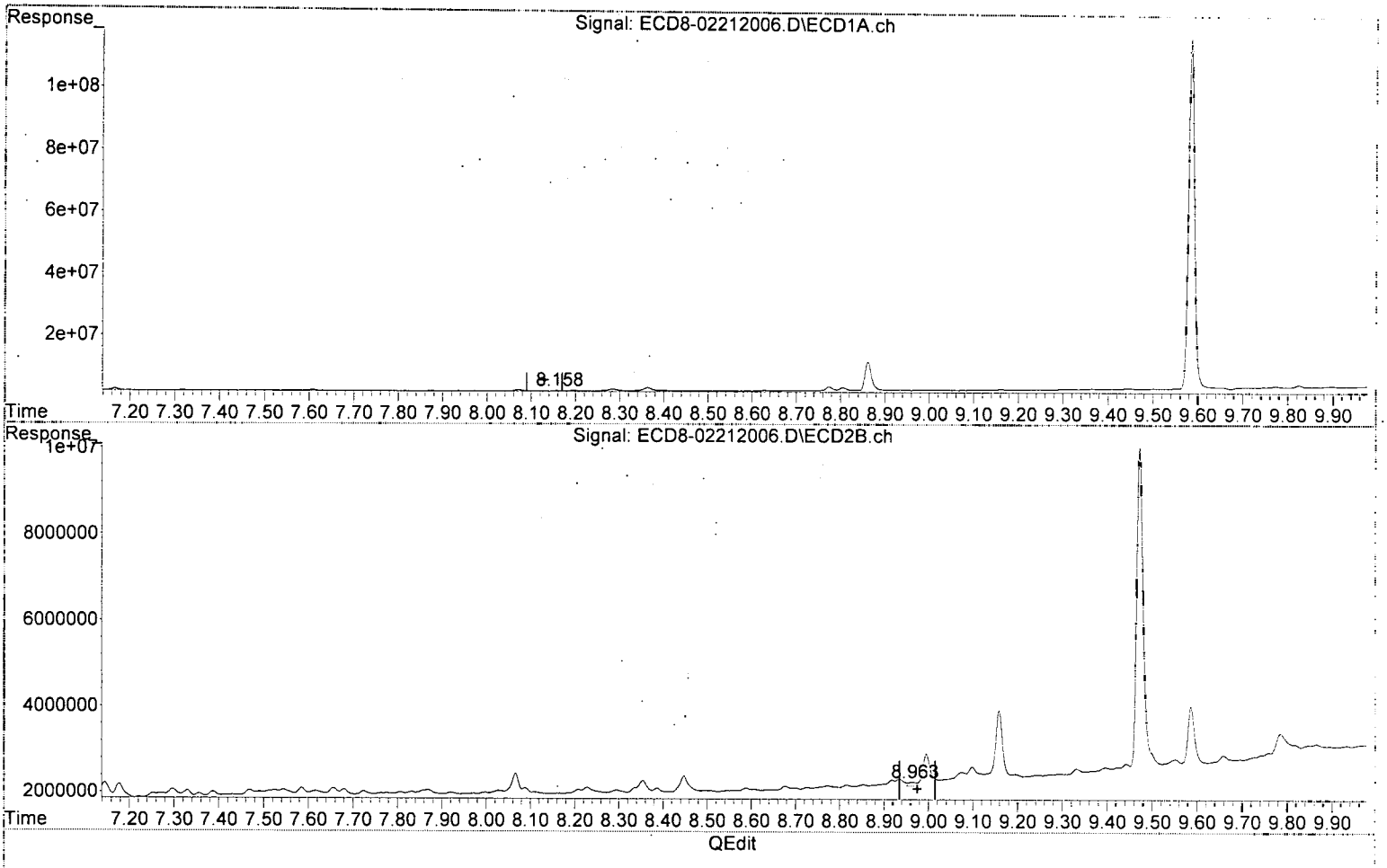
response 967882

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(38) Toxaphene (3)

8.157min 96751.698 ng/mL Q-DCL

response 157617

MJB 2/24/20

(38) Toxaphene (3) #2

8.964min 1.385 ng/mL

response 89613

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MI MJB 2/21/20

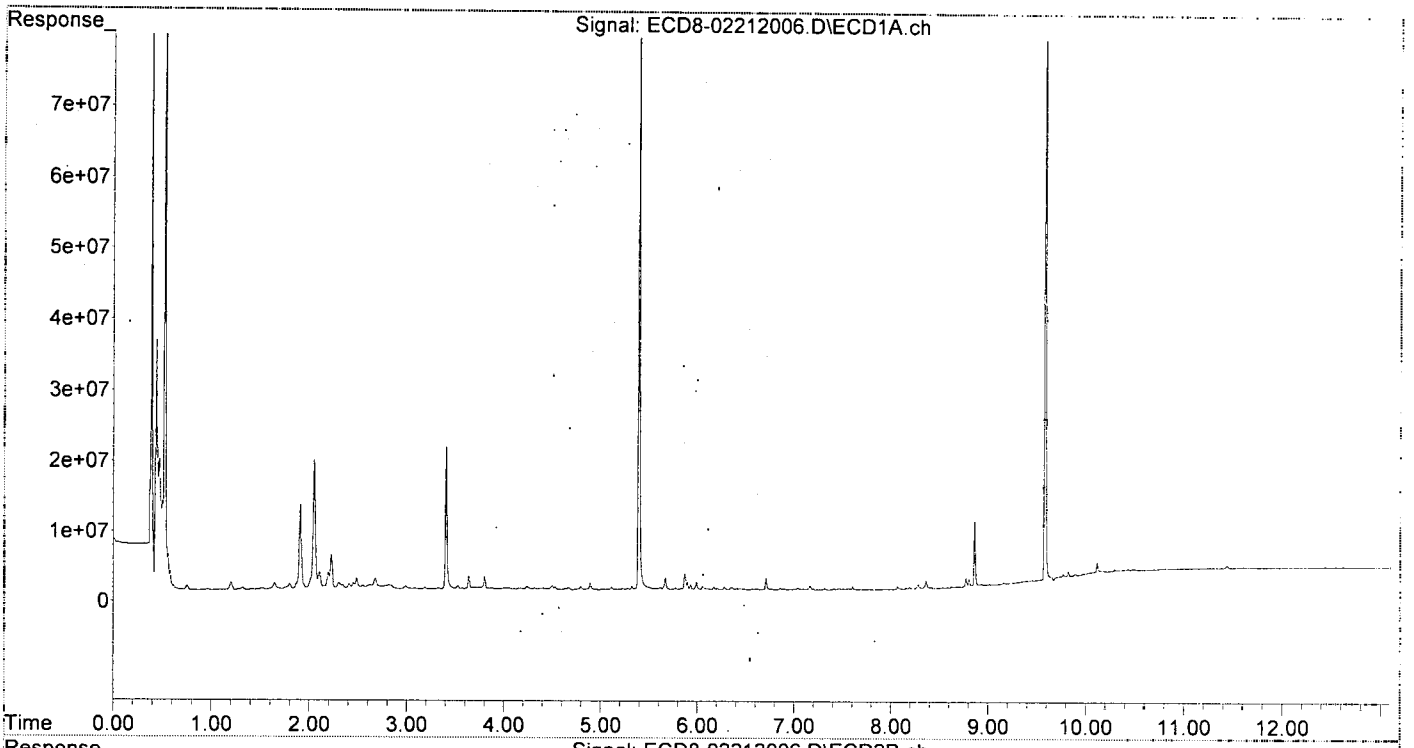
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.394	6.095	85060636	88336002	24.330	25.608	
22)	S	DCBP (S)	9.585	10.662	115.0E6	87831482	43.807	41.203	
		Target Compounds							
2)		a-BHC	5.931	6.694	807571	116203	0.171	0.103	#
3)		g-BHC	6.209	7.013	233225	133237	0.056	0.076	#
4)		b-BHC	6.281	7.062	458430	157049	0.263	0.090	#
5)		Heptachlor	6.618	7.387	162230	134666	0.039	0.032	
6)		d-BHC	6.437	7.330	192257	171810	0.162	0.147	
7)		Aldrin	6.860	7.656	247052	186996	0.061	0.062	
8)		Heptachlo...	7.317	8.088	234343	144207	0.063	0.040	#
9)		trans-Chl...	7.414	8.228	173048	137355	0.046	0.037	
10)		cis-Chlor...	7.510	8.354	152863	277256	0.042	0.079	#
11)		Endosulfa...	7.607	8.387	409191	96629	0.118	0.029	#
12)		4,4'-DDE	7.572	8.448	151377	373907	0.046	0.208	#
13)		Dieldrin	7.777	8.588	80467	63185	0.021	0.050	#
14)		Endrin	7.939	8.816	48129	72361	0.015	0.018	
15)		4,4'-DDD	7.999	8.854	81529	65605	0.032	0.071	#
16)		Endosulfa...	8.070f	8.964	429225	89613	0.143	0.004	#
17)		4,4'-DDT	8.196	9.076	203297	296547	0.076	0.095	#
18)		Endrin Al...	8.398	9.194	186138	204030	0.071	0.077	
19)		Endosulfa...	8.677	9.397	140147	304662	0.049	0.033	#
20)		Methoxychlor	8.529	9.552	79042	446556	0.066	0.047	#
21)		Endrin Ke...	8.862	9.785	9357166	967882	2.707	0.120	#
23)		Hexachlor...	3.188	3.774	429859	8852712	0.110	1.828	#
24)		Hexachlor...	5.775	6.568	339713	1176291	0.101	0.355	#
25)		Oxychlordane	7.241	8.028	53472	90638	BelowCal	0.028	
26)		2,4'-DDE	7.317f	8.228	234343	137355	0.101	0.060	#
27)		trans-Non...	7.510	8.295	152863	66576	0.042	0.018	#
28)		2,4'-DDD	7.716	8.588	74316	63185	0.038	0.033	
29)		2,4'-DDT	7.903	8.816	32433	72361	0.014	BelowCal	#
30)		cis-Nonac...	7.958f	8.854	26921	65605	0.007	0.016	#
31)		Mirex	8.628	9.785	132124	967882	8199.074	0.215	#
32)		Chlordane...	7.414	8.228	173048	137355	0.432	0.316	#
33)		Chlordane...	7.510	8.354	152863	277256	0.314	0.763	#
34)		Chlordane...	8.070	8.995	429225	749083	3.297	6.308	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.510	8.588	152863	63185	9.338	2.144	#
37)		Toxaphene...	7.832	8.935	32918	173135	1.048	4.308	#
38)		Toxaphene...	8.157f	8.964	157617	89613	96751.698	1.385	#
39)		Toxaphene...	8.363	9.076f	1090845	296547	9.874	BelowCal	#
40)		Toxaphene...	8.590	9.244f	22805	175379	0.421	3.059	#
41)		Toxaphene...	8.677	9.586	140147	1658013	1.843	25.101	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

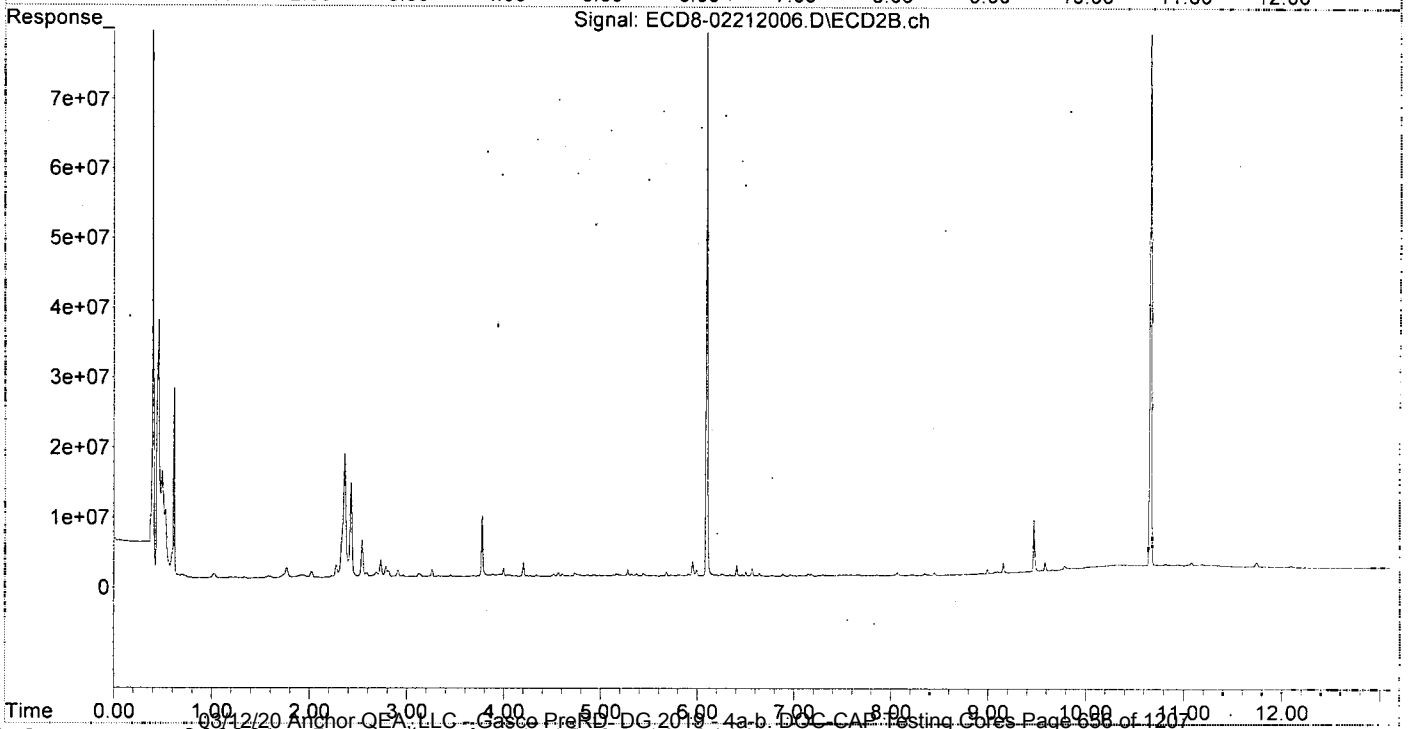
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 12:50
Operator : MJB
Sample : 0020632-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 13:07
Operator : MJB
Sample : 0020632-BS1
Misc : 1x, 8081B, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:15 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MP 2/21/20

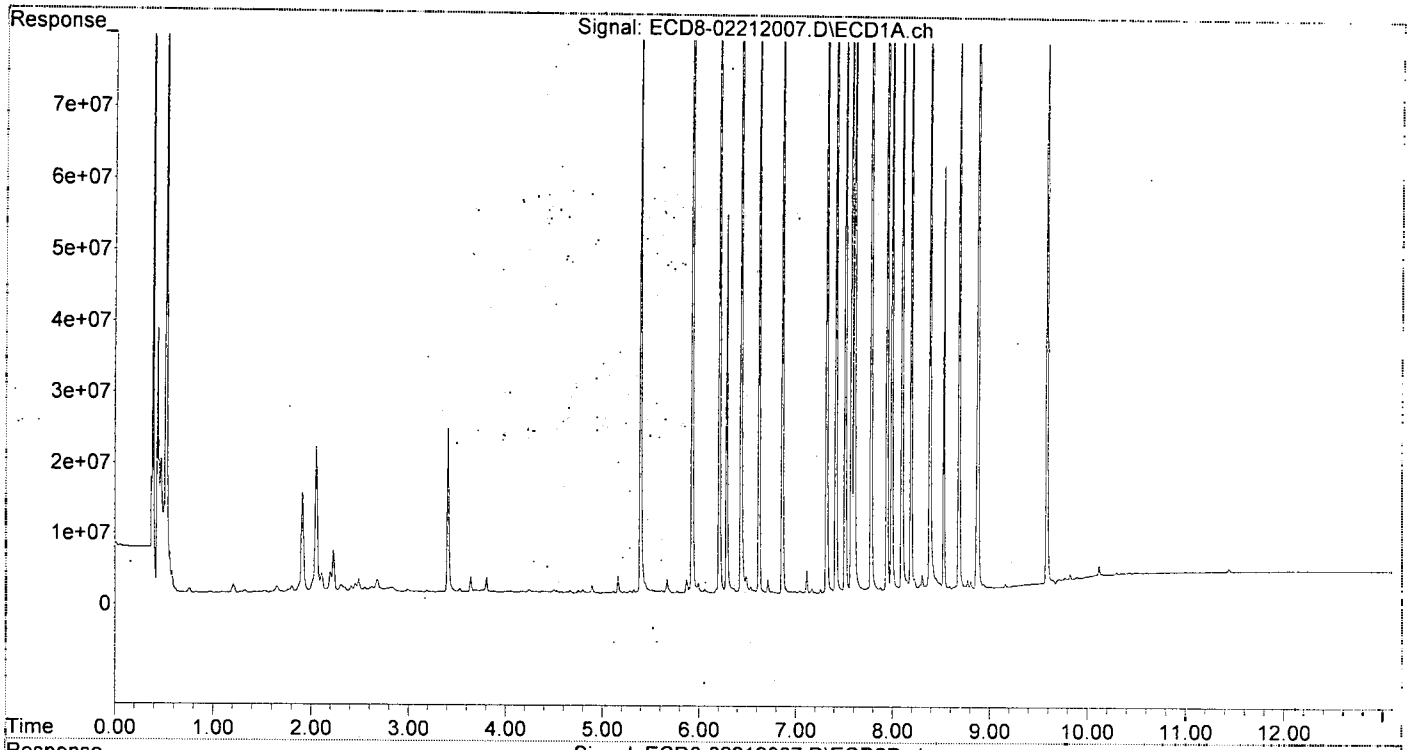
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.393	6.095	97499471	102.6E6	27.888	29.747	
22)	S	DCBP (S)	9.584	10.661	119.4E6	92898192	45.454	43.505	
		Target Compounds							
2)		a-BHC	5.927	6.695	146.9E6	140.5E6	31.094	31.127	
3)		g-BHC	6.209	7.012	133.6E6	123.2E6	32.079	30.178	
4)		b-BHC	6.284	7.075	53748332	52236015	30.861	30.089	
5)		Heptachlor	6.620	7.386	115.6E6	107.7E6	28.136	25.584	
6)		d-BHC	6.433	7.329	137.2E6	129.8E6	38.053	34.653	
7)		Aldrin	6.860	7.653	126.3E6	111.6E6	31.262	28.624	
8)		Heptachlo...	7.317	8.088	136.1E6	125.4E6	36.844	34.941	
9)		trans-Chl...	7.413	8.228	136.0E6	121.8E6	36.168	32.769	
10)		cis-Chlor...	7.510	8.335	130.9E6	119.7E6	35.642	33.970	
11)		Endosulfa...	7.605	8.387	138.0E6	127.2E6	39.788	38.488	
12)		4,4'-DDE	7.573	8.436	142.5E6	137.7E6	42.897	40.969	
13)		Dieldrin	7.777	8.587	165.2E6	153.4E6	43.328	41.377	
14)		Endrin	7.940	8.815	139.8E6	122.2E6	42.829	39.957	
15)		4,4'-DDD	7.990	8.852	116.8E6	112.7E6	45.900	43.267	
16)		Endosulfa...	8.095	8.961	128.5E6	124.9E6	42.963	43.863	
17)		4,4'-DDT	8.189	9.078	118.7E6	119.0E6	44.138	43.641	
18)		Endrin Al...	8.383	9.197	106.7E6	105.0E6	40.547	39.707	
19)		Endosulfa...	8.683	9.388	115.4E6	117.3E6	40.308	43.415	
20)		Methoxychlor	8.527	9.554	59928993	60581225	49.666	50.370	
21)		Endrin Ke...	8.876	9.791	147.9E6	128.3E6	42.792	42.054	
23)		Hexachlor...	3.189	3.775	256657	9988043	0.066	2.063	#
24)		Hexachlor...	5.774	6.568	333398	1154812	0.099	0.348	#
25)		Oxychlordane	7.255	8.028	622345	70000	0.023	0.022	
26)		2,4'-DDE	7.317f	8.228	136.1E6	121.8E6	58.846	53.607	
27)		trans-Non...	7.510	8.291	130.9E6	309067	35.701	0.086	#
28)		2,4'-DDD	7.741f	8.587	537196	153.4E6	0.277	80.153	#
29)		2,4'-DDT	7.876	8.815	613762	122.2E6	0.256	52.183	#
30)		cis-Nonac...	7.990	8.852	116.8E6	112.7E6	28.705	28.267	
31)		Mirex	0.000	9.791	0	128.3E6	N.D.	59.840	#
32)		Chlordane...	7.413	8.228	136.0E6	121.8E6	339.623	280.451	
33)		Chlordane...	7.510	8.335	130.9E6	119.7E6	269.133	329.153	
34)		Chlordane...	8.049	8.993	585736	984450	4.499	8.290	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.510	8.587	130.9E6	153.4E6	7995.805	5206.666	#
37)		Toxaphene...	0.000	8.918f	0	415178	N.D.	10.331	#
38)		Toxaphene...	8.146	8.961	1477730	124.9E6	17.836	1930.784	#
39)		Toxaphene...	8.383	9.035	106.7E6	319767	1611.715	BelowCal	#
40)		Toxaphene...	8.588	9.197f	460689	105.0E6	8.499	1831.088	#
41)		Toxaphene...	8.683	9.586	115.4E6	1180293	1516.931	17.869	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

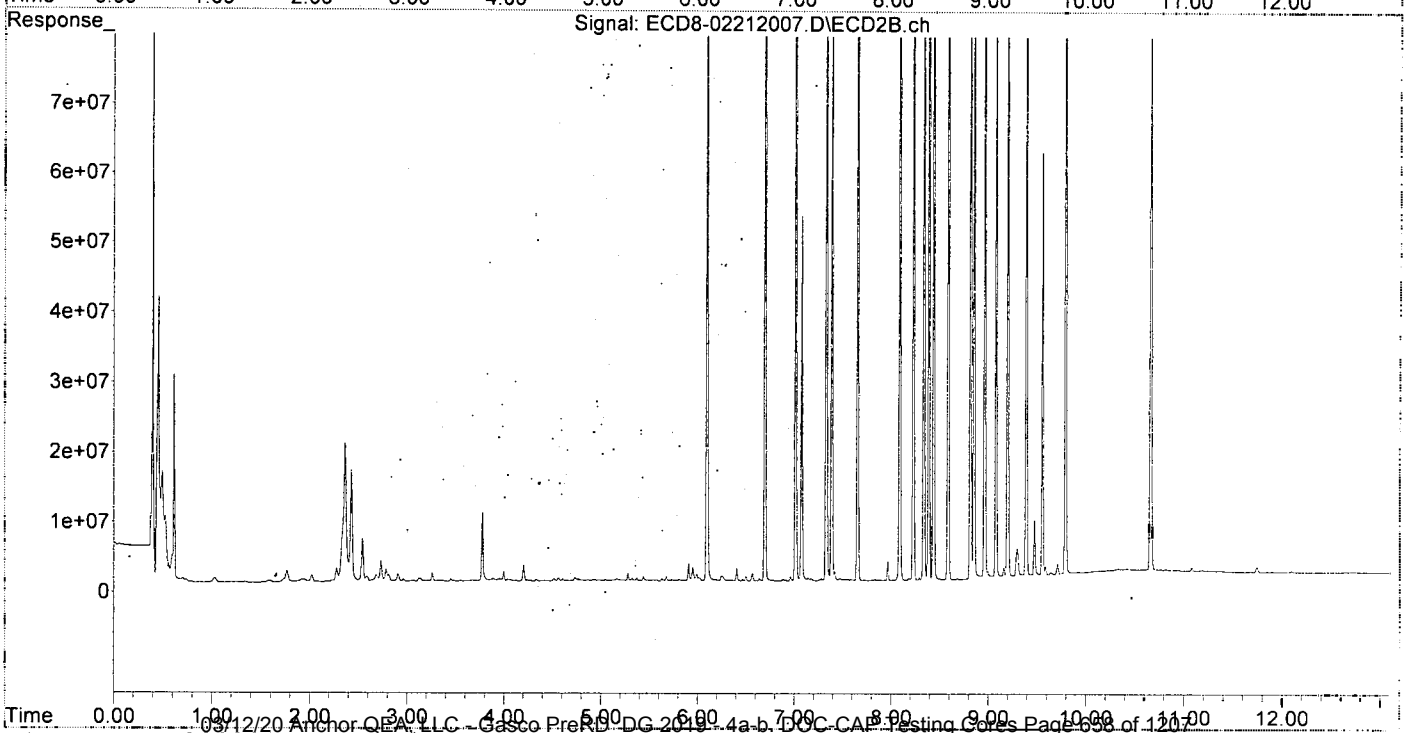
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 13:07
Operator : MJB
Sample : 0020632-BS1
Misc : 1x, 8081B, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:15 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 14:48
Operator : MJB
Sample : 0B21033-CCV2
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

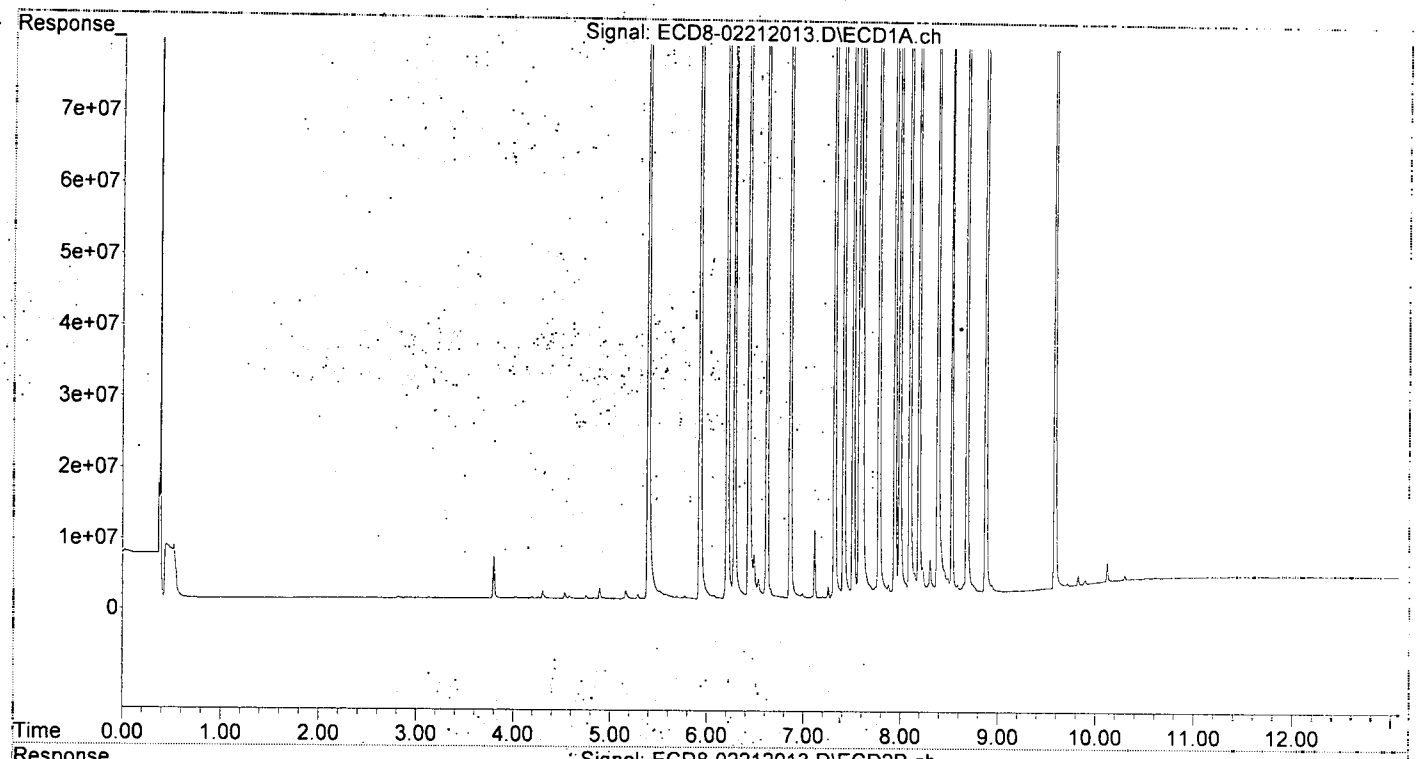
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.392	6.094	312.9E6	362.3E6	89.490	105.031	
22)	S	DCBP (S)	9.586	10.661	262.4E6	207.9E6	97.954	93.222	
		Target Compounds							
2)		a-BHC	5.927	6.693	460.9E6	485.4E6	97.544	95.985	
3)		g-BHC	6.208	7.011	408.5E6	414.1E6	98.123	92.653	
4)		b-BHC	6.283	7.072	167.0E6	169.2E6	95.866	97.460	
5)		Heptachlor	6.619	7.385	378.0E6	376.4E6	91.975	89.398	
6)		d-BHC	6.431	7.328	380.4E6	411.1E6	98.294	97.508	
7)		Aldrin	6.860	7.652	406.8E6	400.2E6	100.688	93.889	
8)		Heptachlo...	7.317	8.088	352.1E6	381.6E6	95.352	106.316	
9)		trans-Chl...	7.413	8.227	374.0E6	364.8E6	99.456	98.111	
10)		cis-Chlor...	7.510	8.333	354.5E6	360.9E6	96.542	102.437	
11)		Endosulfa...	7.604	8.385	330.5E6	322.0E6	95.272	97.428	
12)		4,4'-DDE	7.573	8.435	356.1E6	361.0E6	107.241	97.039	
13)		Dieldrin	7.776	8.586	382.5E6	362.3E6	100.301	91.391	
14)		Endrin	7.940	8.814	311.4E6	287.3E6	95.409	87.565	
15)		4,4'-DDD	7.991	8.850	265.3E6	267.8E6	104.246	91.965	
16)		Endosulfa...	8.095	8.961	273.1E6	289.1E6	91.275	93.681	
17)		4,4'-DDT	8.189	9.078	264.1E6	265.3E6	98.242	88.206	
18)		Endrin Al...	8.383	9.196	230.2E6	259.7E6	87.433	98.214	
19)		Endosulfa...	8.683	9.387	261.0E6	265.2E6	91.177	90.943	
20)		Methoxychlor	8.528	9.554	123.3E6	129.9E6	102.172	97.763	
21)		Endrin Ke...	8.877	9.790	323.2E6	294.4E6	93.521	89.489	
23)		Hexachlor...	3.182	3.788	23499	3596	0.006	0.001	#
24)		Hexachlor...	5.773	6.570	351386	63487	0.105	BelowCal	#
25)		Oxychlordane	7.254	8.011	1594404	48969	0.340	0.015	#
26)		2,4'-DDE	7.317f	8.227	352.1E6	364.8E6	152.293	160.499	
27)		trans-Non...	7.510	8.289	354.5E6	798533	96.702	0.221	#
28)		2,4'-DDD	7.743f	8.586	1289626	362.3E6	0.666	189.276	#
29)		2,4'-DDT	7.876	8.814	1659996	287.3E6	0.694	111.321	#
30)		cis-Nonac...	7.991	8.850	265.3E6	267.8E6	65.194	67.196	
31)		Mirex	8.652	9.790	1299494	294.4E6	0.330	132.603	#
32)		Chlordane...	7.413	8.227	374.0E6	364.8E6	933.900	839.669	
33)		Chlordane...	7.510	8.333	354.5E6	360.9E6	728.990	992.570	#
34)		Chlordane...	8.095f	8.993	273.1E6	1772942	2097.226	14.929	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.510	8.586	354.5E6	362.3E6	21657.957	12295.244	#
37)		Toxaphene...	0.000	8.961f	0	289.1E6	N.D.	7194.564	#
38)		Toxaphene...	8.146	8.961	3139968	289.1E6	41.463	4469.211	#
39)		Toxaphene...	8.383	9.036	230.2E6	1037946	3419.933	6.606	#
40)		Toxaphene...	8.590	9.196f	1272043	259.7E6	23.468	4529.137	#
41)		Toxaphene...	8.652	0.000	1299494	0	17.086	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

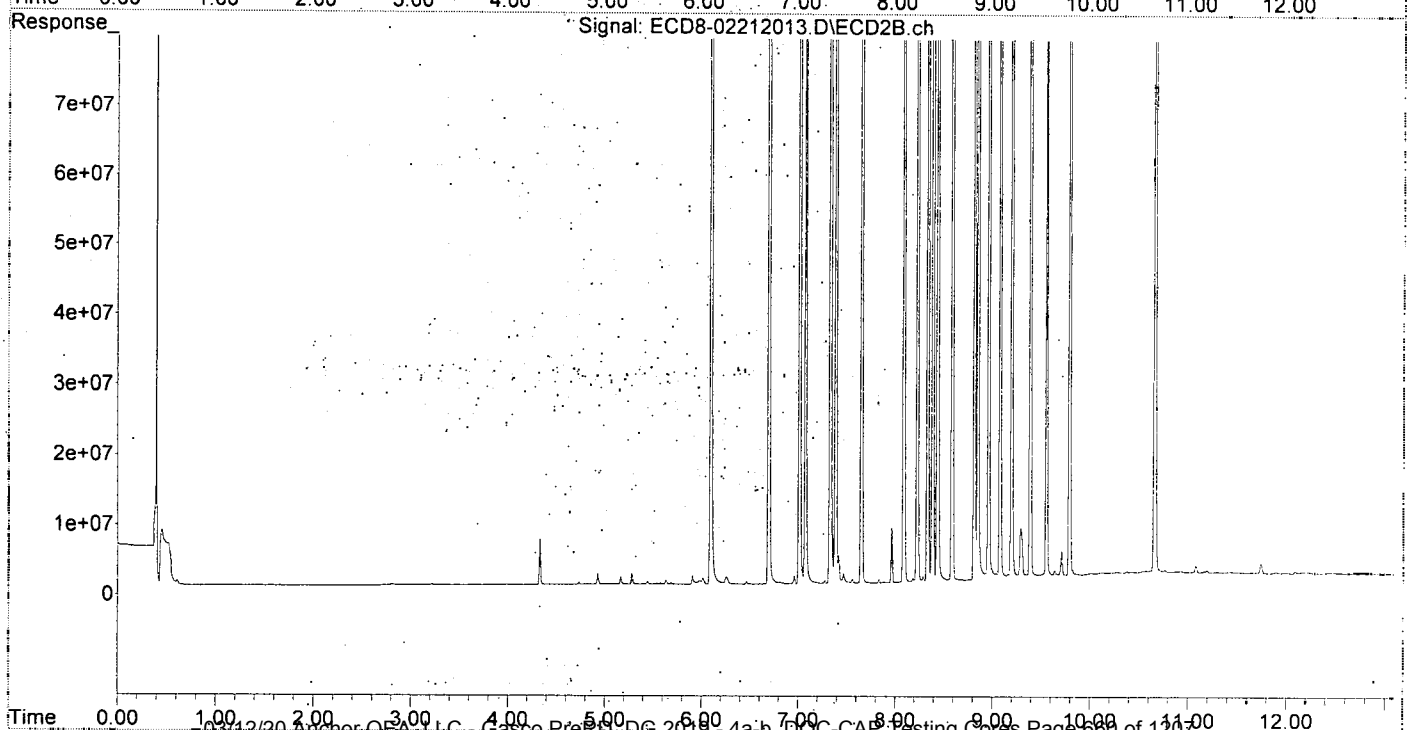
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212013.D
Signal(s) : Signal #1: ECD1A.ch , Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 14:48
Operator : MJB
Sample : 0B21033-CCV2
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:05
Operator : MJB
Sample : 0B21033-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

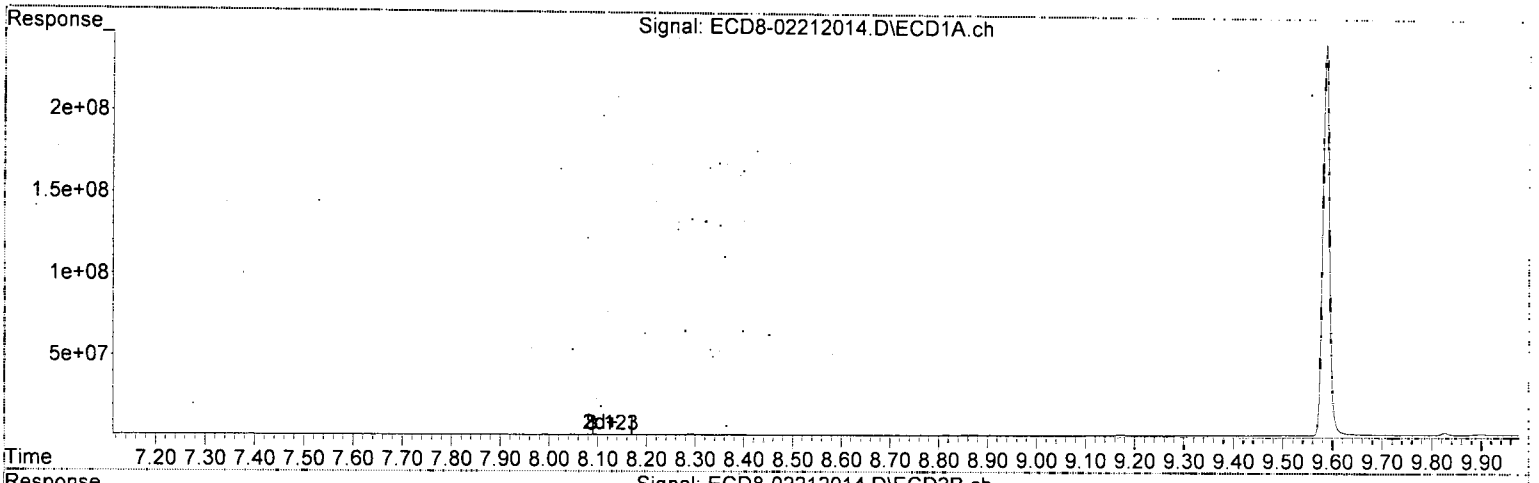
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.392	6.093	299.4E6	344.8E6	85.646	99.957	
22)	S DCBP (S)	9.586	10.660	243.0E6	202.1E6	90.951	90.813	
	Target Compounds							
2)	a-BHC	5.938	6.688	37424	30415	0.008	0.083	#
3)	g-BHC	0.000	7.012	0	19637	N.D.	0.047	#
4)	b-BHC	6.288	7.078	152971	20240	0.088	0.012	#
5)	Heptachlor	0.000	7.392	0	24670	N.D.	0.006	#
6)	d-BHC	6.433	7.328	40256	55362	0.118	0.113	
7)	Aldrin	6.860	7.655	14590	354805	0.004	0.107	#
8)	Heptachlo...	7.316	8.094	19066	29906	0.005	0.008	#
9)	trans-Chl...	7.433	8.226	11162	59951	0.003	0.016	#
10)	cis-Chlor...	7.508	8.334	60274	26412	0.016	0.007	#
11)	Endosulfa...	7.606	8.387	27752	35410	0.008	0.011	#
12)	4,4'-DDE	7.573	8.438	50961	55156	0.015	0.106	#
13)	Dieldrin	7.777	8.589	22822	59236	0.006	0.049	#
14)	Endrin	7.937	8.827	22077	76504	0.007	0.019	#
15)	4,4'-DDD	7.991	8.851	54385	118553	0.021	0.094	#
16)	Endosulfa...	8.092	8.962	261885	145711	0.088	0.025	#
17)	4,4'-DDT	8.189	9.084	22826	177215	0.008	0.047	#
18)	Endrin Al...	8.381	9.197	302658	277427	0.115	0.105	
19)	Endosulfa...	8.685	9.391	99501	287923	0.035	0.026	
20)	Methoxychlor	8.533	9.553	67143	347295	0.056	BelowCal	#
21)	Endrin Ke...	8.877	9.791	70377	468083	0.020	BelowCal	#
23)	Hexachlor...	3.196f	3.815f	46971	83698	0.012	0.017	#
24)	Hexachlor...	5.773	6.572	363533	94751	0.108	BelowCal	#
25)	Oxychlordane	7.249	8.011	223516	27107	BelowCal	0.008	
26)	2,4'-DDE	7.324	8.226	18342	59951	0.008	0.026	#
27)	trans-Non...	7.508	8.292	60274	14637	0.016	0.004	#
28)	2,4'-DDD	0.000	8.589	0	59236	N.D.	0.031	#
29)	2,4'-DDT	7.896	8.827	8182	76504	0.003	BelowCal	#
30)	cis-Nonac...	7.976	8.851	31039	118553	0.008	0.030	#
31)	Mirex	8.638	9.791	50610	468083	8199.108	BelowCal	#
32)	Chlordane...	7.433	8.226	11162	59951	0.028	0.138	#
33)	Chlordane...	7.508	8.334	60274	26412	0.124	0.073	#
34)	Chlordane...	8.054	8.998	79961	677498	0.614	5.705	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.543	8.589	18060	59236	1.103	2.010	#
37)	Toxaphene...	7.804	8.937	11048	262826	0.352	6.540	#
38)	Toxaphene...	8.123	8.962	27941	145711	~~96753.540~~ QDel	2.252	#
39)	Toxaphene...	8.370	9.032	337286	205187	BelowCal	BelowCal	
40)	Toxaphene...	8.586	9.220	49125	166858	0.906	2.911	#
41)	Toxaphene...	8.666	9.601	38085	358919	0.501	5.434	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

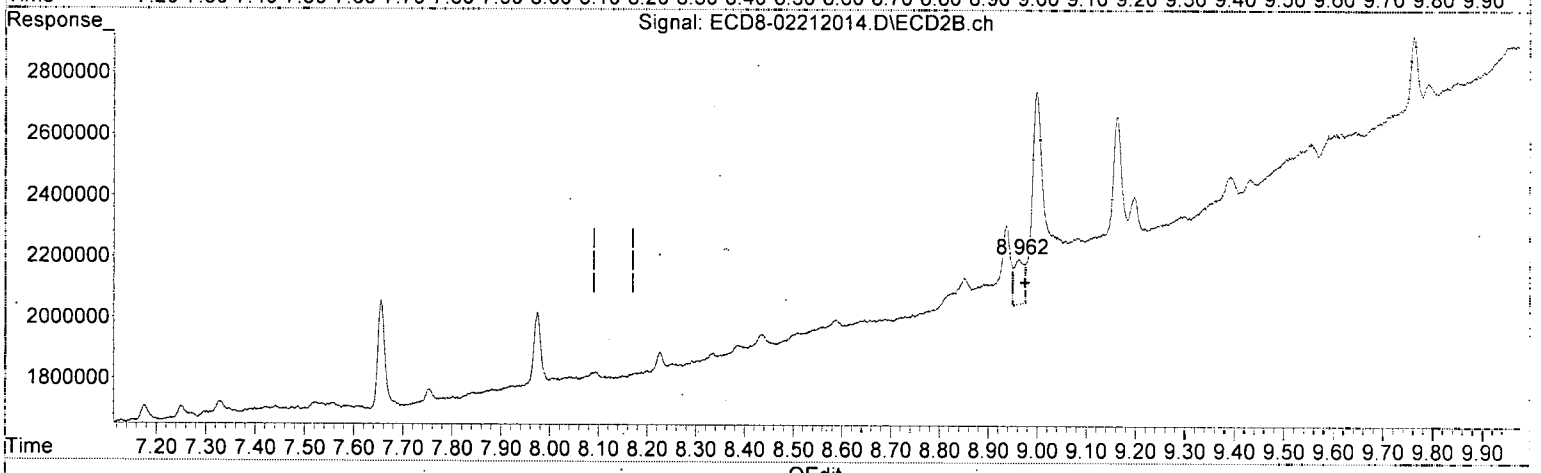
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:05
Operator : MJB
Sample : 0B21033-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

8.123min 96753.540 ng/mL Q-PQL

response 27941

MJB 2/21/20

(38) Toxaphene (3) #2

8.962min 2.252 ng/mL

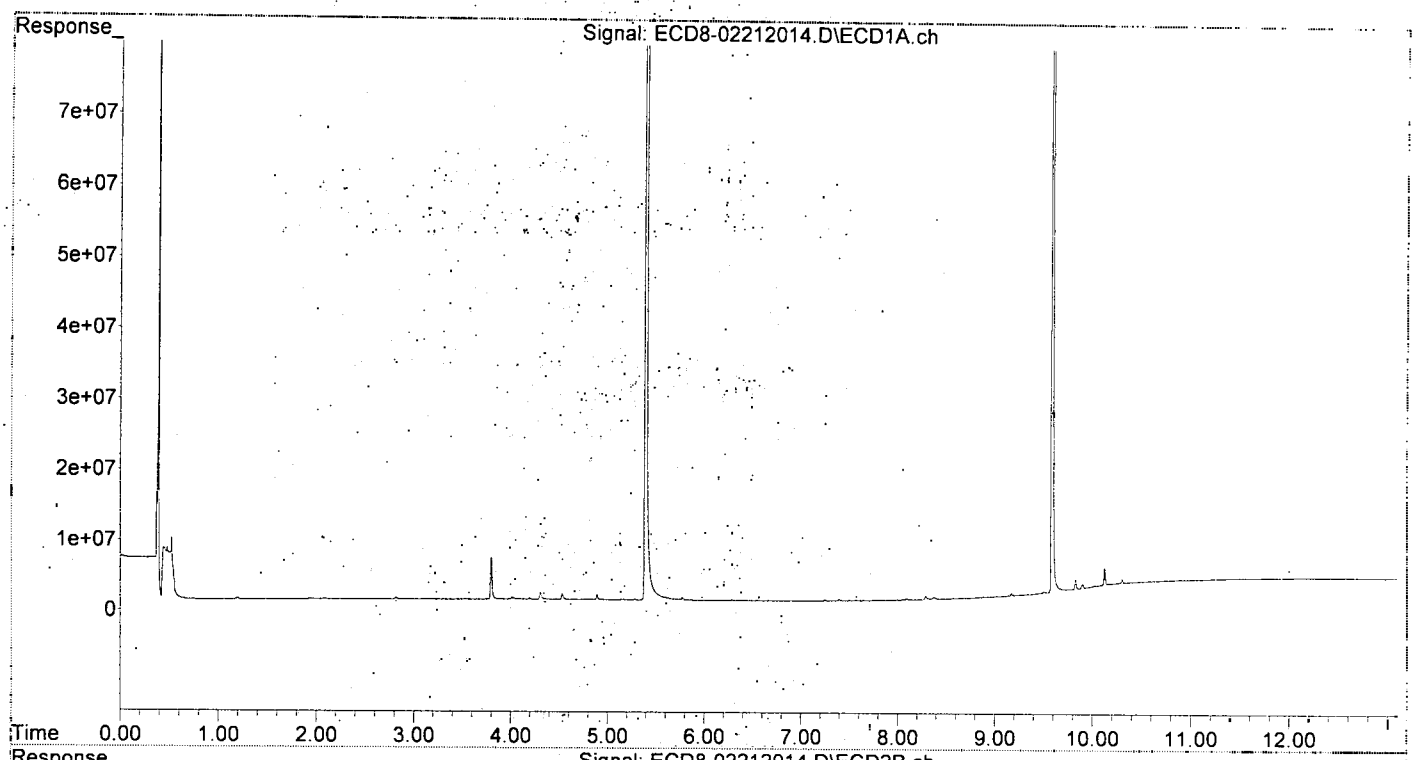
response 145711

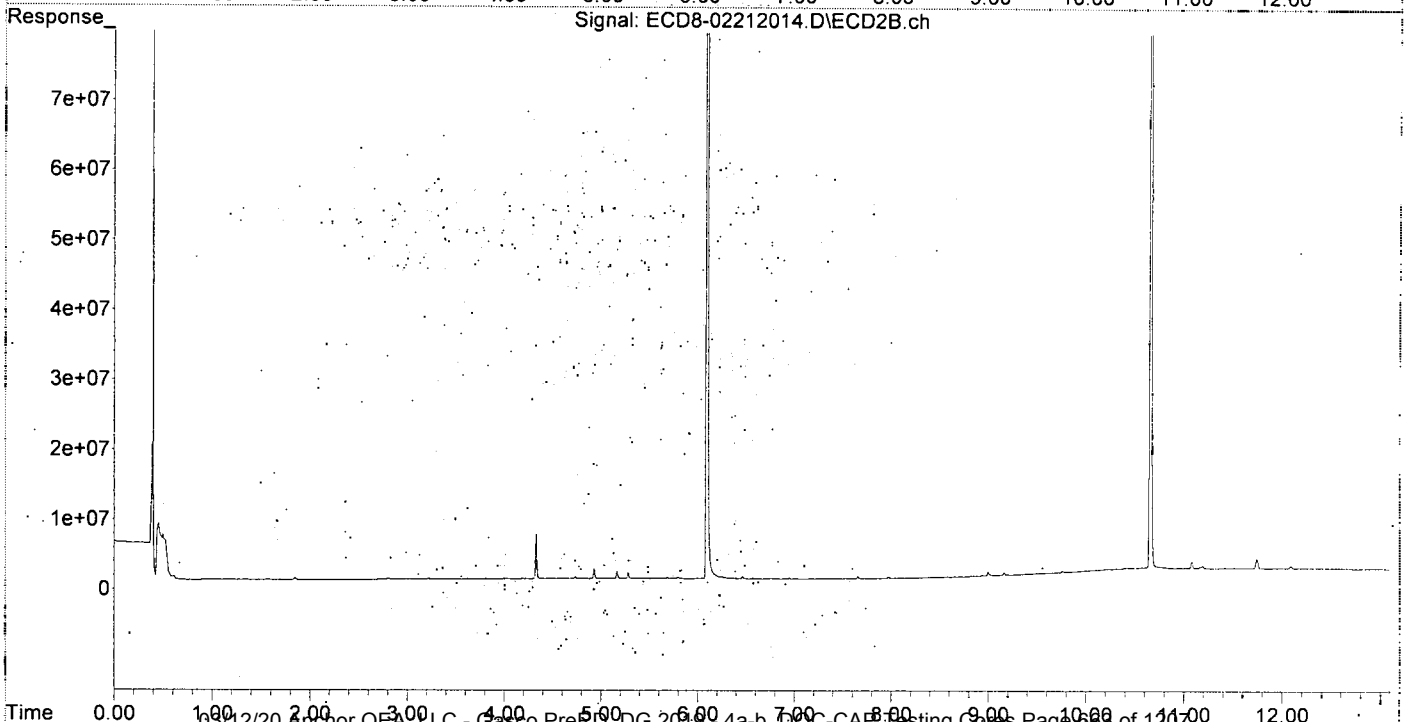
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:05
Operator : MJB
Sample : 0B21033-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 15:26:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

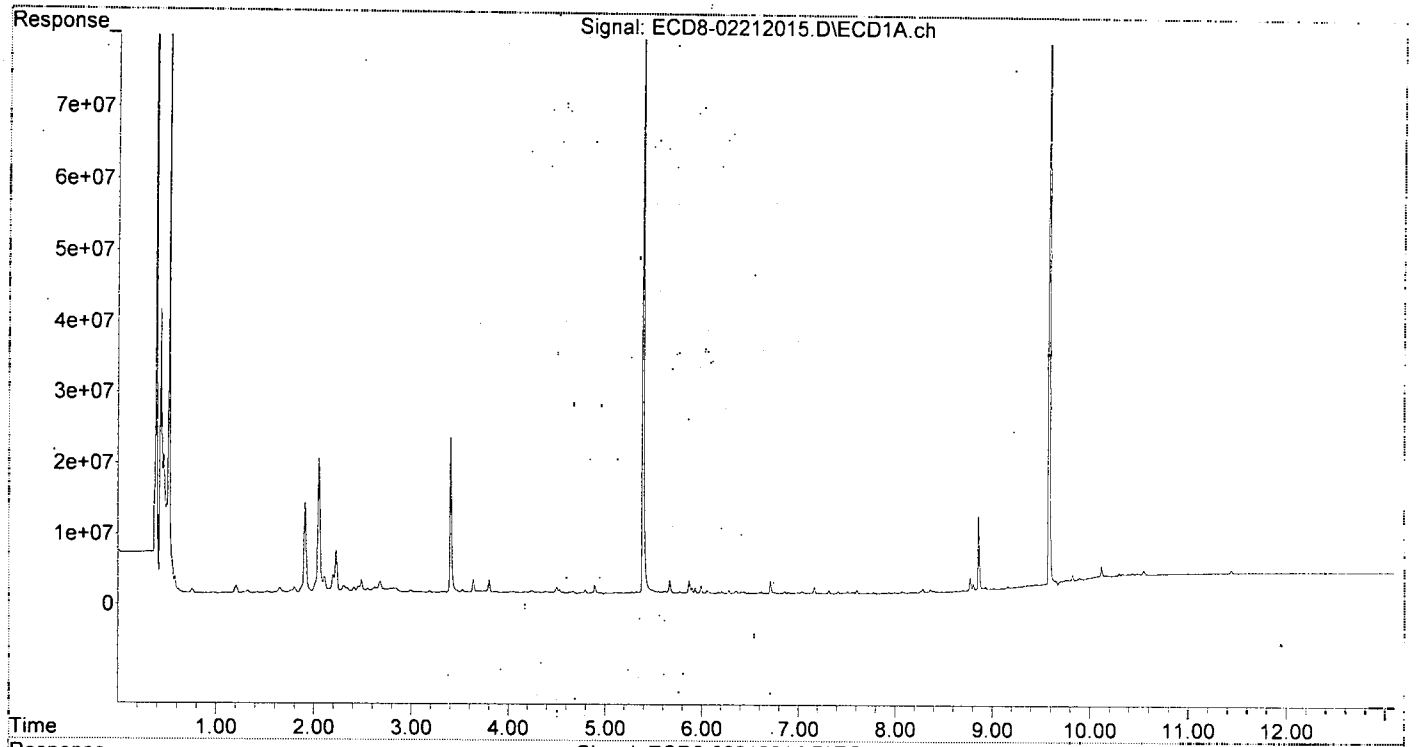
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.392	6.093	95449487	101.7E6	27.302	29.484	
22)	S	DCBP (S)	9.583	10.659	138.7E6	108.3E6	52.681	50.420	
		Target Compounds							
2)		a-BHC	5.929	6.692	1991467	2004475	0.422	0.545	#
3)		g-BHC	6.207	7.010	1571063	2237126	0.377	0.615	#
4)		b-BHC	6.280	7.071	1731716	2168074	0.994	1.249	#
5)		Heptachlor	6.617	7.383	1572494	2301663	0.383	0.547	#
6)		d-BHC	6.433	7.327	1615144	2421475	0.574	0.788	#
7)		Aldrin	6.857	7.652	1733487	2431877	0.429	0.661	#
8)		Heptachlo...	7.315	8.085	1978197	2726818	0.536	0.760	#
9)		trans-Chl...	7.412	8.226	1884784	2753077	0.501	0.740	#
10)		cis-Chlor...	7.508	8.332	1885195	2725954	0.513	0.774	#
11)		Endosulfa...	7.605	8.385	2136517	2715649	0.616	0.822	#
12)		4,4'-DDE	7.571	8.446	1772872	541986	0.534	0.262m	#
13)		Dieldrin	7.775	8.585	1826994	2732746	0.479	0.812	#
14)		Endrin	7.938	8.813	1822520	2817812	0.558	0.972	#
15)		4,4'-DDD	7.996	8.849	1819883	339357	0.715	0.188m	#
16)		Endosulfa...	8.071f	8.960	2005460	405294	0.670	0.123m	#
17)		4,4'-DDT	8.191	9.092	1930963	761062	0.718	0.285m	#
18)		Endrin Al...	8.398	9.194	2185382	550613	0.830	0.208m	#
19)		Endosulfa...	8.676	9.399	2272738	704363	0.794	0.193m	#
20)		Methoxychlor	8.528	9.572	2123901	1119826	1.760	0.683m	#
21)		Endrin Ke...	8.868	9.783	5230668	1504190	1.513m	0.311m	#
23)		Hexachlor...	3.187	3.773	889204	13712463	0.228	2.832	#
24)		Hexachlor...	5.773	6.567	1459884	2944090	0.434	0.970	#
25)		Oxychlordane	7.238	8.026	1502055	2429453	0.309	0.760	#
26)		2,4'-DDE	7.364f	8.226	1507708	2753077	0.652	1.211	#
27)		trans-Non...	7.508	8.296	1885195	2518125	0.514	0.698	#
28)		2,4'-DDD	7.715	8.585	1698960	2732746	0.877	1.428	#
29)		2,4'-DDT	7.877	8.813	1688470	2817812	0.706	1.272	#
30)		cis-Nonac...	7.996	8.850	1819883	2802422	0.447	0.703	#
31)		Mirex	8.630	9.783	2225780	4385907	0.713	1.866	#
32)		Chlordane...	7.412	8.226	1884784	2753077	4.706	6.337	#
33)		Chlordane...	7.508	8.332	1885195	2725954	3.876	7.498	#
34)		Chlordane...	8.071	8.994	2005460	3503525	15.403	29.502	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.508	8.585	1885195	2732746	115.166	92.733	
37)		Toxaphene...	7.811	8.932	1647457	2954740	52.441	73.521	#
38)		Toxaphene...	8.156f	8.960	1934221	2903515	24.323	44.879	#
39)		Toxaphene...	8.366	9.070f	2376214	3288943	29.683	29.952	
40)		Toxaphene...	8.630f	9.217	2225780	3105433	41.064	54.168	#
41)		Toxaphene...	8.676	9.584	2272738	5338533	29.883	80.821	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

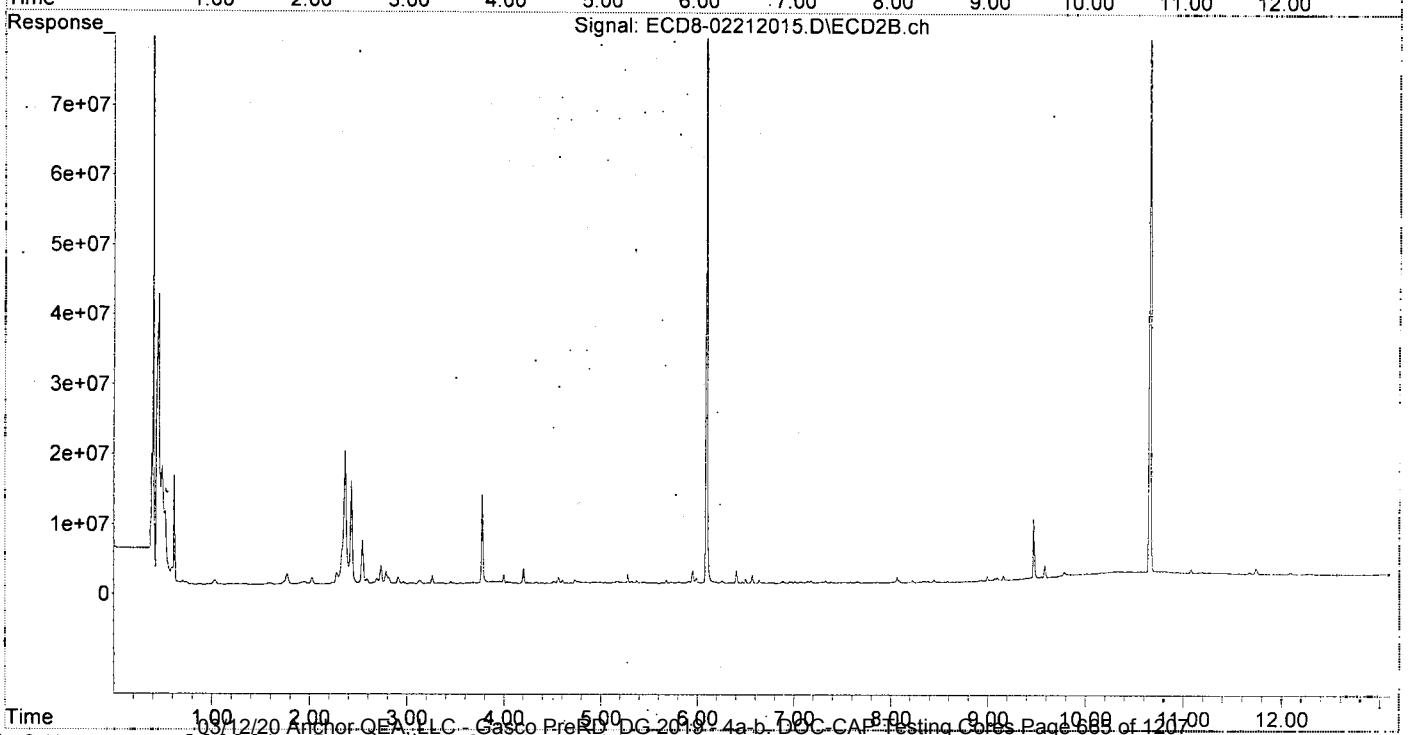
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

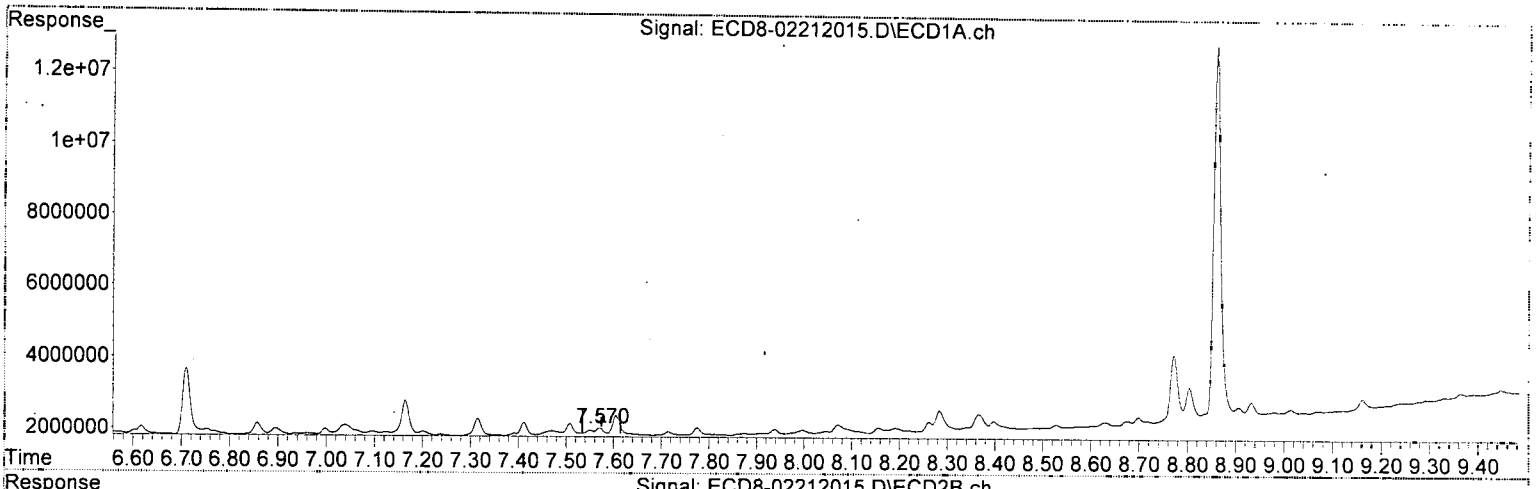


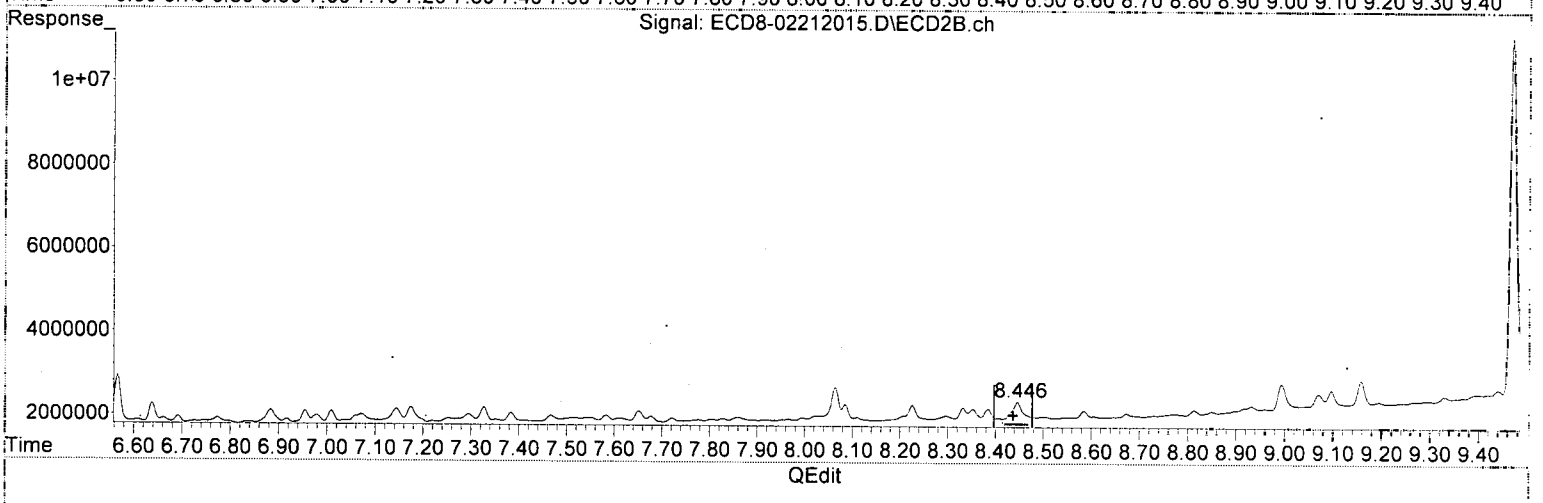


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(12) 4,4'-DDE

7.571min 0.534 ng/mL

response 1772872

MJB 2/21/20

(12) 4,4'-DDE #2

8.446min 0.262 ng/mL (m)

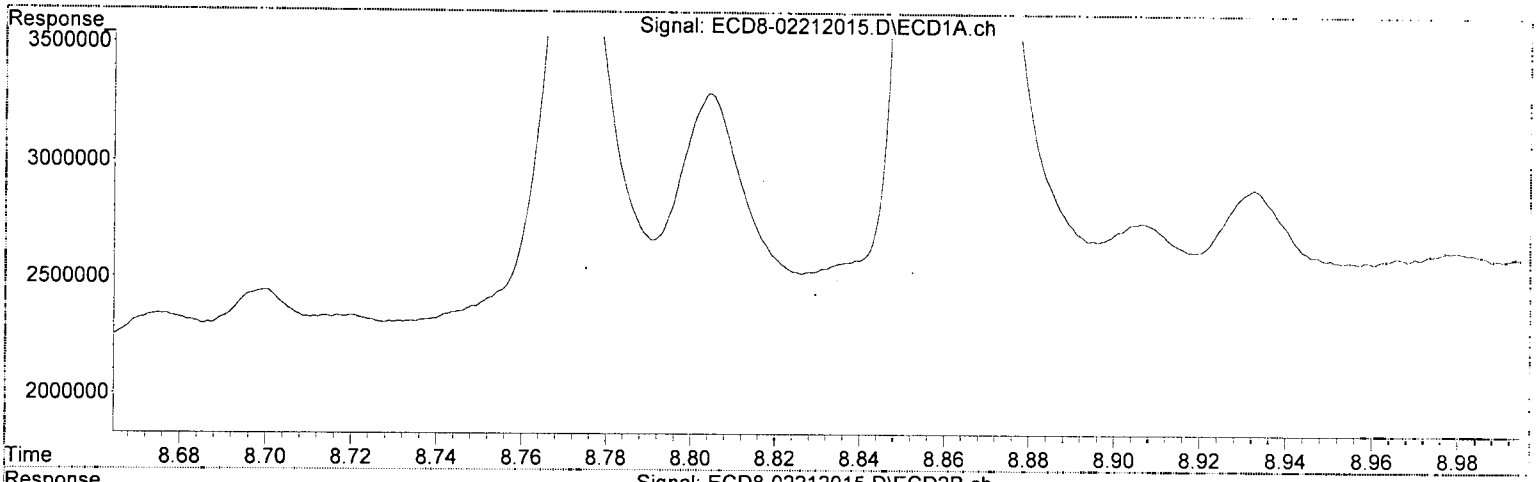
response 541986

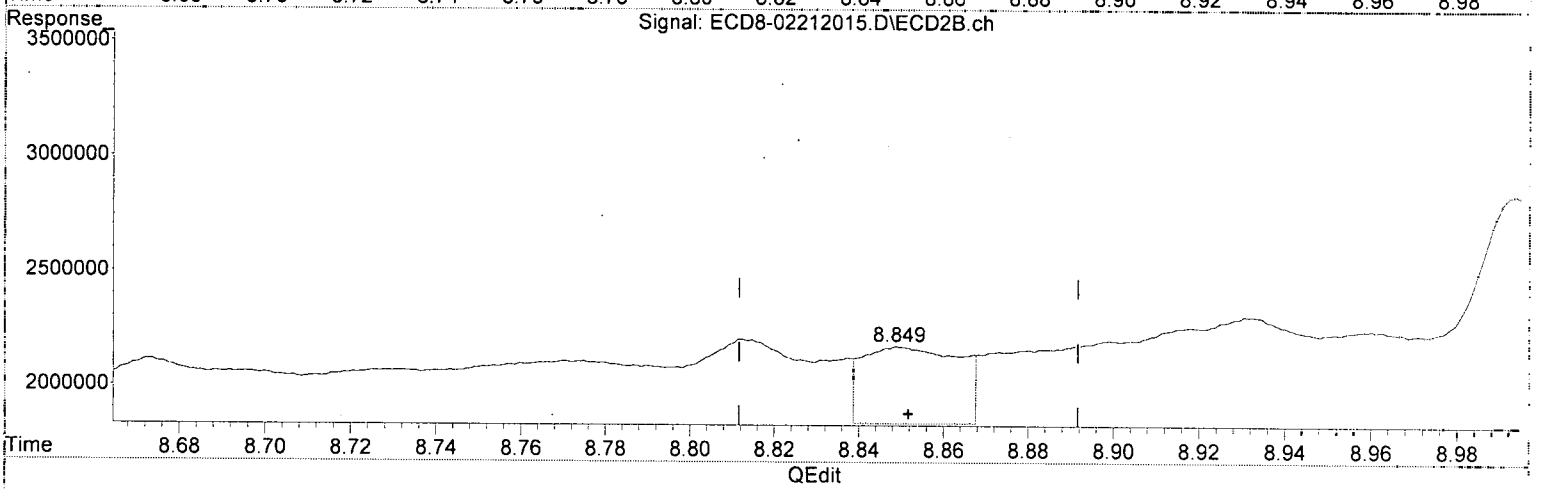
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(15) 4,4'-DDD

7.996min 0.715 ng/mL

response 1819883

MJB 2/21/20

(15) 4,4'-DDD #2

8.849min 0.188 ng/mL (m)

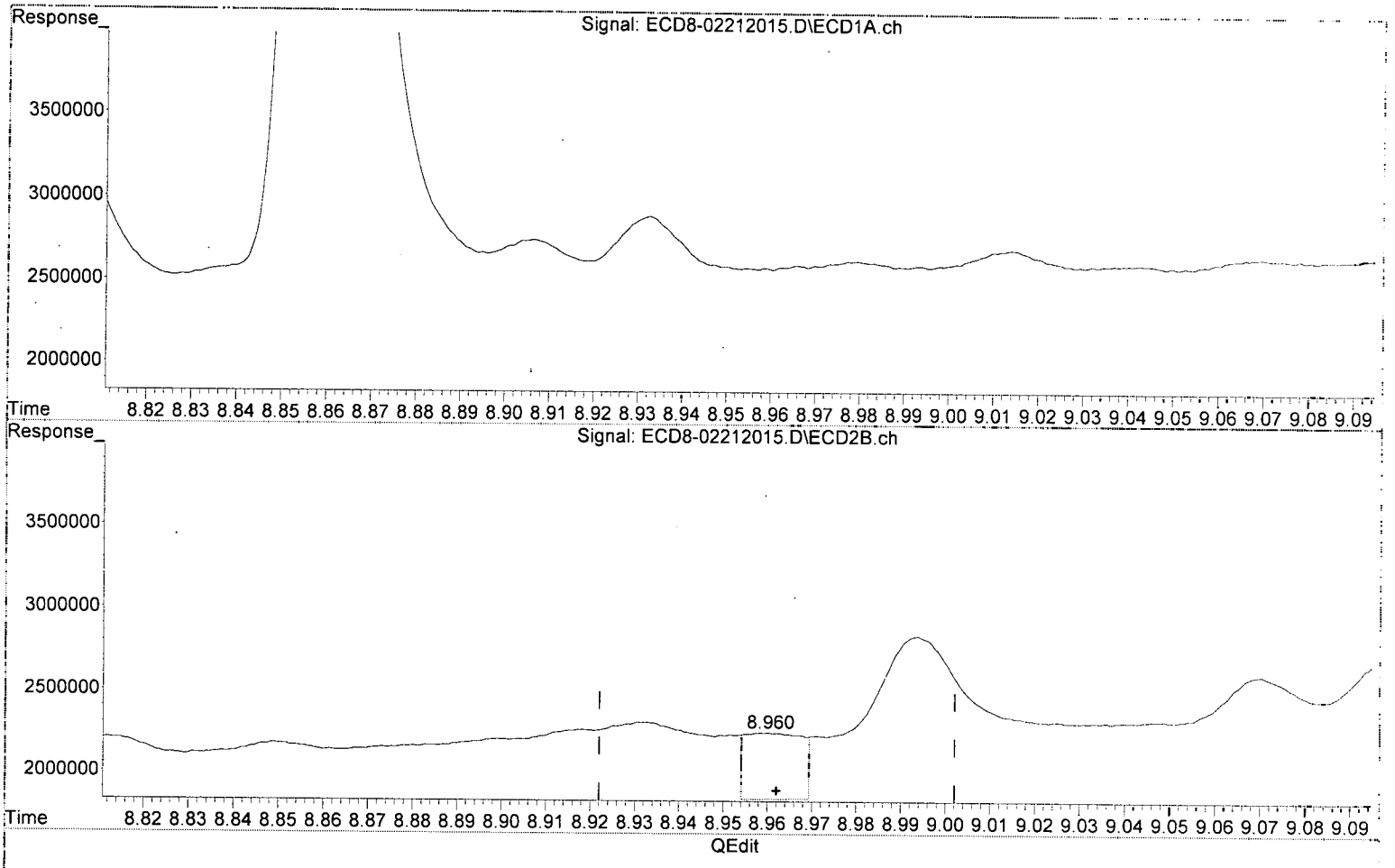
response 339357

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(16) Endosulfan II

8.071min 0.670 ng/mL

response 2005460

MJB 2/21/20

(16) Endosulfan II #2

8.960min 0.123 ng/mL m

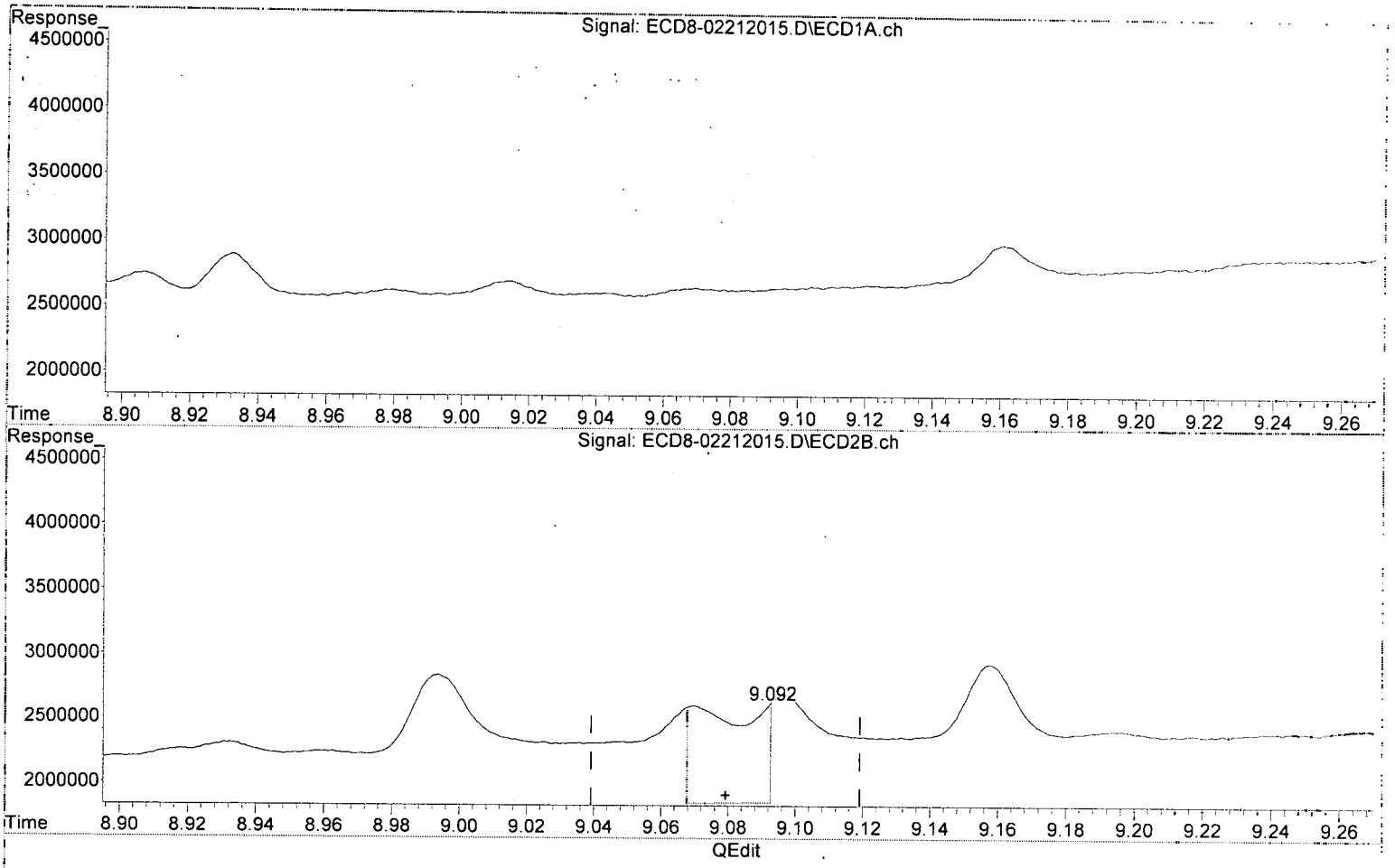
response 405294

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.191min 0.718 ng/mL

response 1930963

MJB 2/21/20

(17) 4,4'-DDT #2

9.092min 0.285 ng/mL (+)

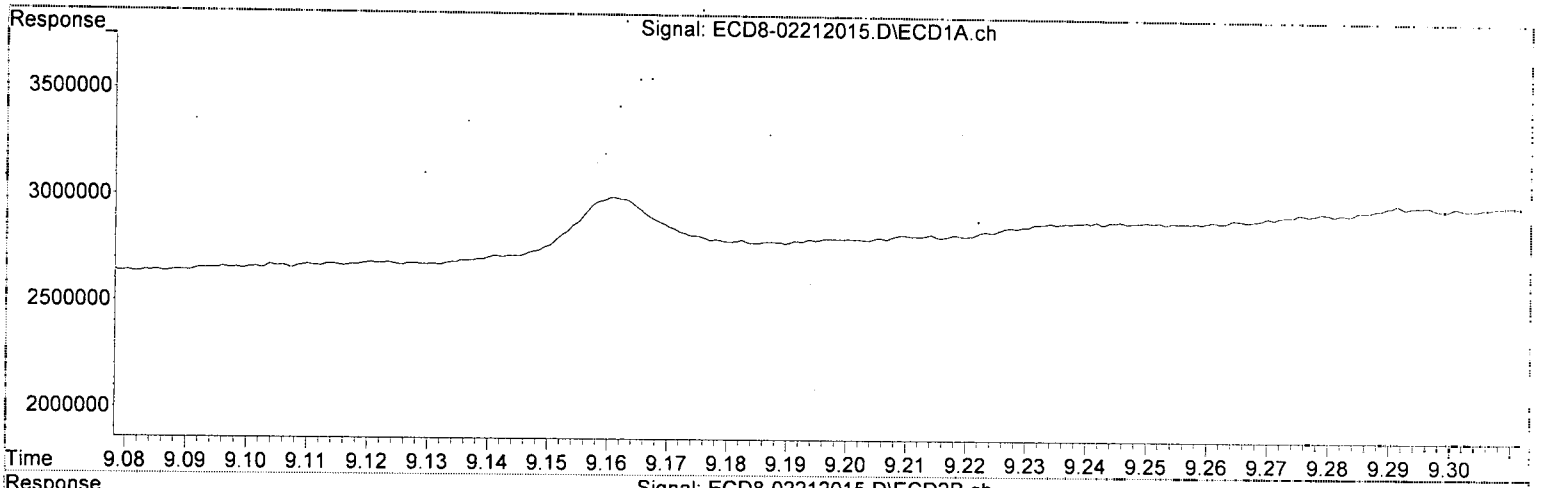
response 761062

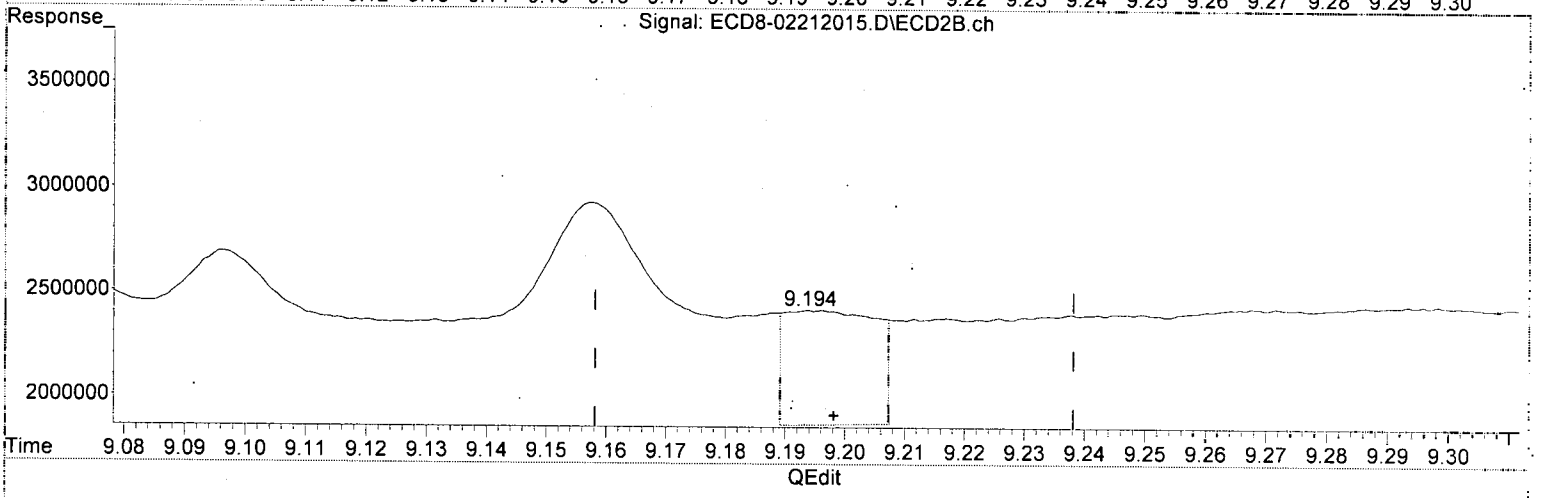
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(18) Endrin Aldehyde

8.398min 0.830 ng/mL

response 2185382

MJB 2/20/20

(18) Endrin Aldehyde #2

9.194min 0.208 ng/mL (m)

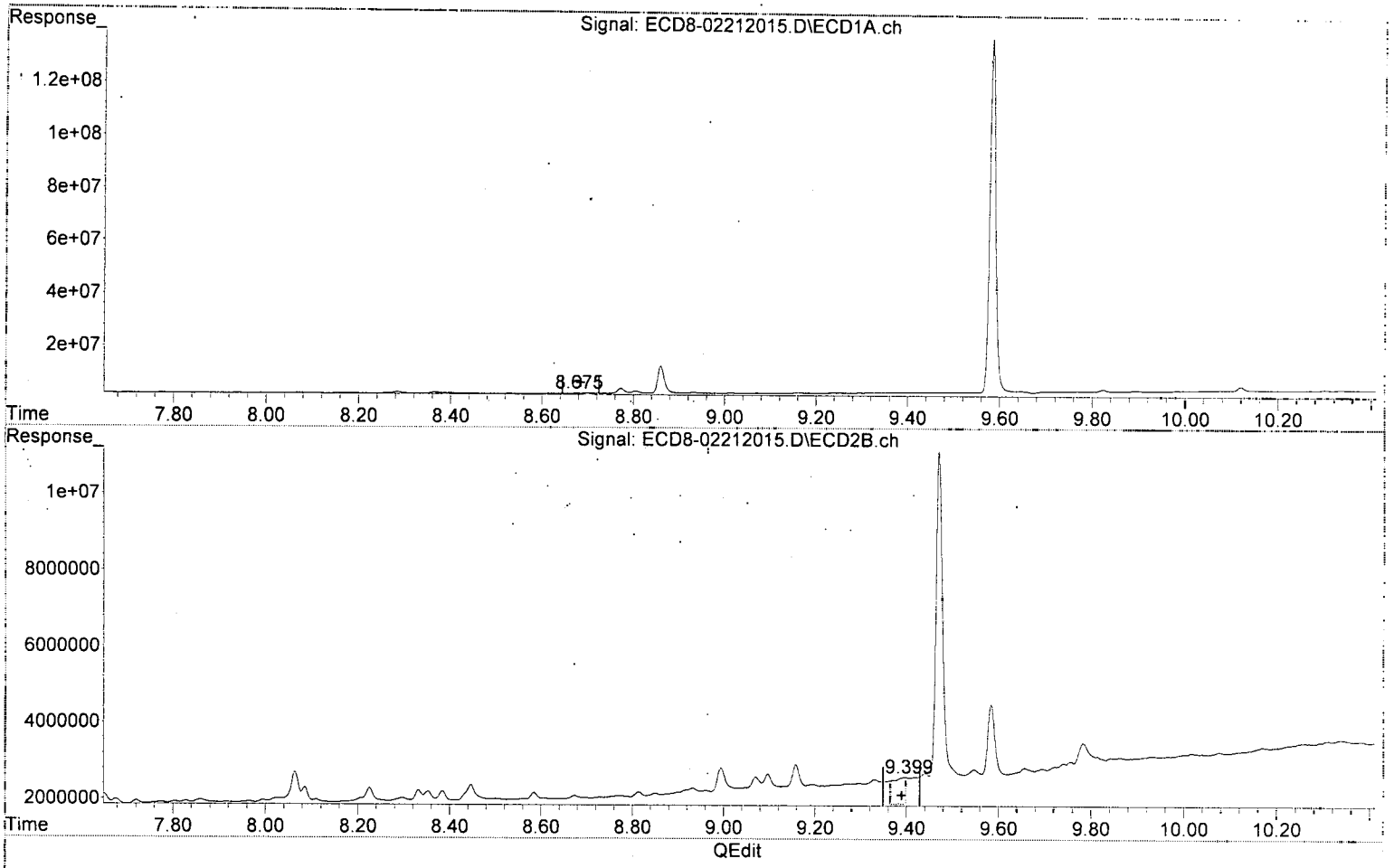
response 550613

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1 .

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(19) Endosulfan Sulfate

8.676min 0.794 ng/mL

response 2272738

MP 2/24/20

(19) Endosulfan Sulfate #2

9.399min 0.193 ng/mL m

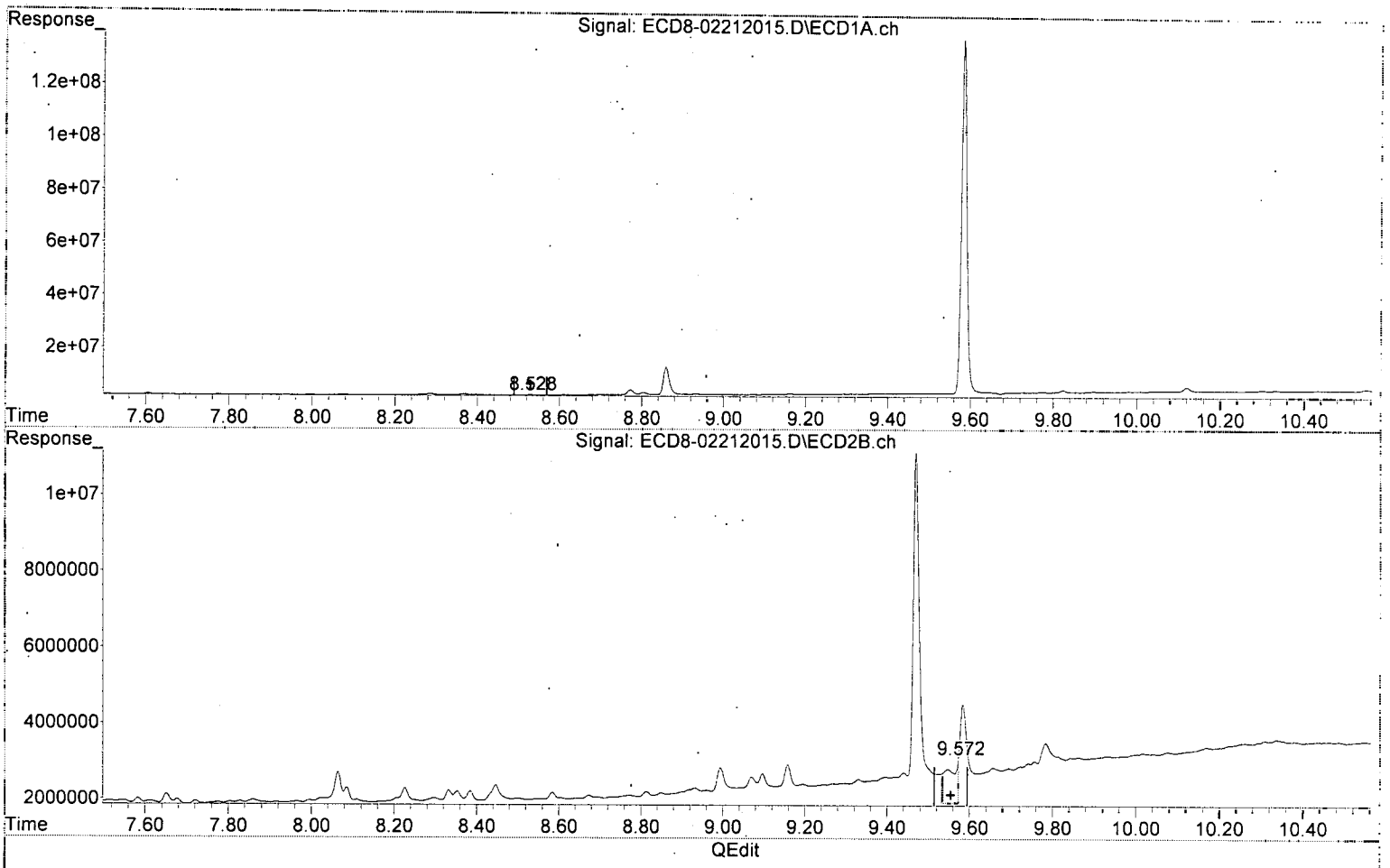
response 704363

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(20) Methoxychlor

8.528min 1.760 ng/mL

response 2123901

MB 2/21/20

(20) Methoxychlor #2

9.572min 0.683 ng/mL m

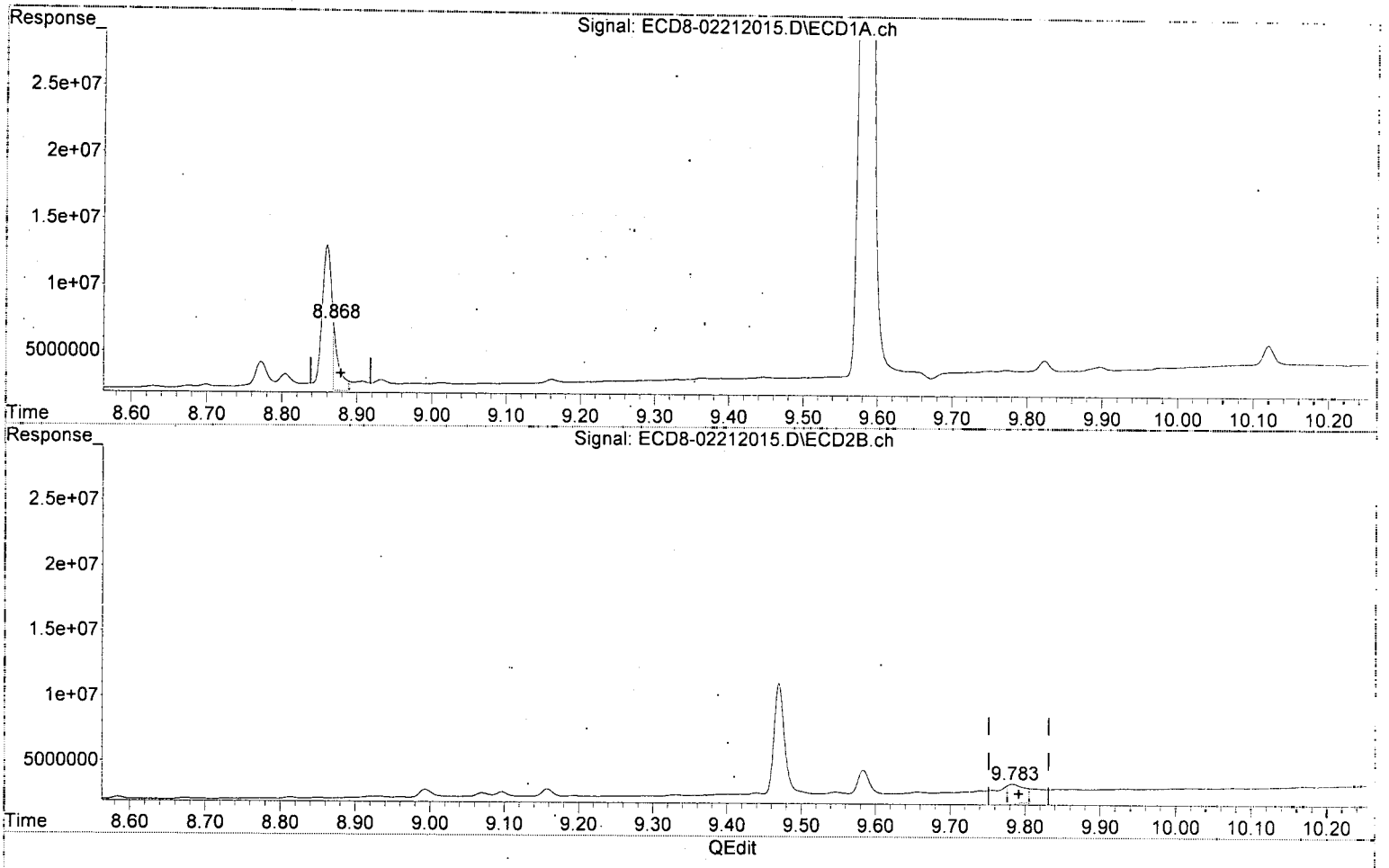
response 1119826

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(21) Endrin Ketone

8.868min 1.513 ng/mL (m)

response 5230668

MJB 2/21/20

(21) Endrin Ketone #2

9.783min 0.311 ng/mL (m)

response 1504190

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

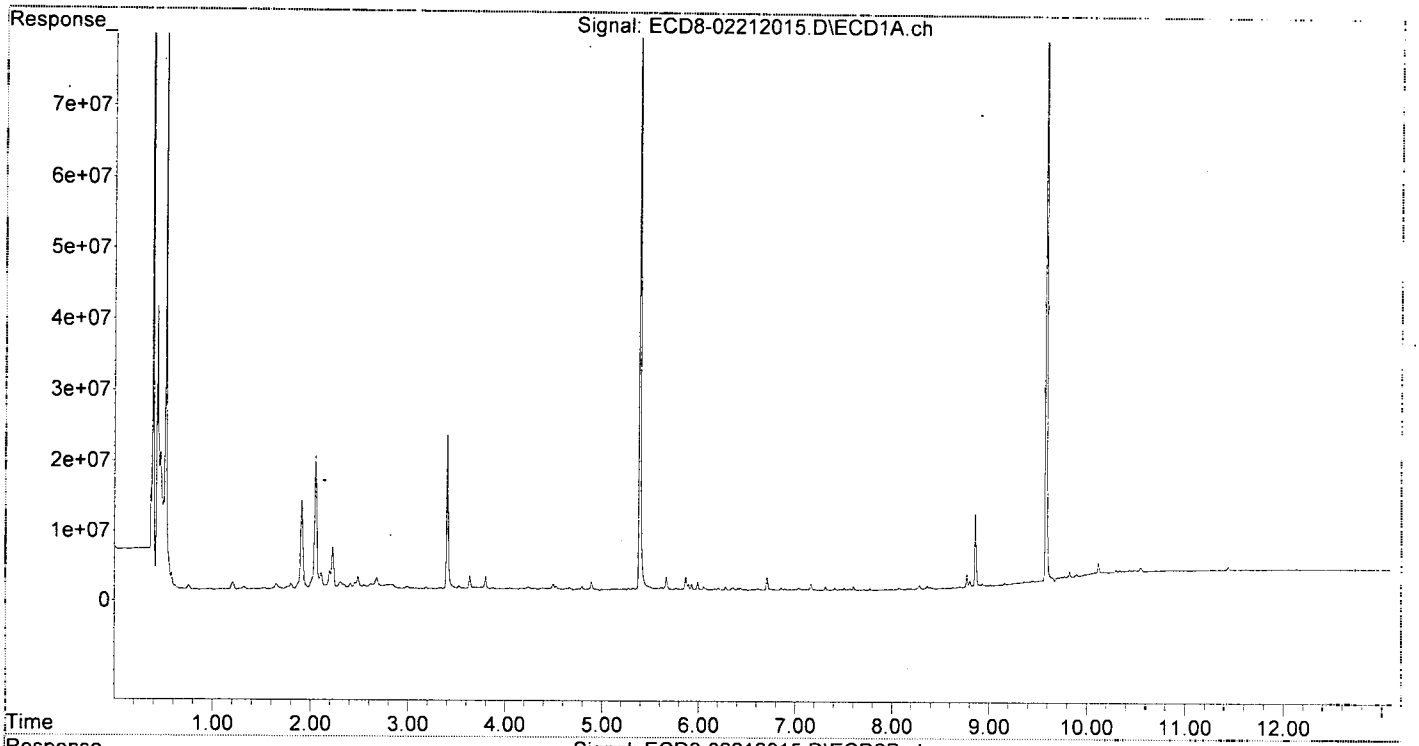
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.392	6.093	95449487	101.7E6	27.302	29.484	
22)	S DCBP (S)	9.583	10.659	138.7E6	108.3E6	52.681	50.420	
	Target Compounds							
2)	a-BHC	5.929	6.692	1991467	2004475	0.422	0.545	#
3)	g-BHC	6.207	7.010	1571063	2237126	0.377	0.615	#
4)	b-BHC	6.280	7.071	1731716	2168074	0.994	1.249	#
5)	Heptachlor	6.617	7.383	1572494	2301663	0.383	0.547	#
6)	d-BHC	6.433	7.327	1615144	2421475	0.574	0.788	#
7)	Aldrin	6.857	7.652	1733487	2431877	0.429	0.661	#
8)	Heptachlo...	7.315	8.085	1978197	2726818	0.536	0.760	#
9)	trans-Chl...	7.412	8.226	1884784	2753077	0.501	0.740	#
10)	cis-Chlor...	7.508	8.332	1885195	2725954	0.513	0.774	#
11)	Endosulfa...	7.605	8.385	2136517	2715649	0.616	0.822	#
12)	4,4'-DDE	7.571	8.447	1772872	2902412	0.534	1.019	#
13)	Dieldrin	7.775	8.585	1826994	2732746	0.479	0.812	#
14)	Endrin	7.938	8.813	1822520	2817812	0.558	0.972	#
15)	4,4'-DDD	7.996	8.850	1819883	2802422	0.715	1.240	#
16)	Endosulfa...	8.071f	8.960	2005460	2903515	0.670	1.069	#
17)	4,4'-DDT	8.191	9.070	1930963	3288943	0.718	1.313	#
18)	Endrin Al...	8.398	9.195	2185382	3132468	0.830	1.185	#
19)	Endosulfa...	8.676	9.398	2272738	3378526	0.794	1.261	#
20)	Methoxychlor	8.528	9.547	2123901	3629310	1.760	3.034	#
21)	Endrin Ke...	8.860	9.783	12947682	4385907	3.746	1.331	#
23)	Hexachlor...	3.187	3.773	889204	13712463	0.228	2.832	#
24)	Hexachlor...	5.773	6.567	1459884	2944090	0.434	0.970	#
25)	Oxychlordane	7.238	8.026	1502055	2429453	0.309	0.760	#
26)	2,4'-DDE	7.364f	8.226	1507708	2753077	0.652	1.211	#
27)	trans-Non...	7.508	8.296	1885195	2518125	0.514	0.698	#
28)	2,4'-DDD	7.715	8.585	1698960	2732746	0.877	1.428	#
29)	2,4'-DDT	7.877	8.813	1688470	2817812	0.706	1.272	#
30)	cis-Nonac...	7.996	8.850	1819883	2802422	0.447	0.703	#
31)	Mirex	8.630	9.783	2225780	4385907	0.713	1.866	#
32)	Chlordane...	7.412	8.226	1884784	2753077	4.706	6.337	#
33)	Chlordane...	7.508	8.332	1885195	2725954	3.876	7.498	#
34)	Chlordane...	8.071	8.994	2005460	3503525	15.403	29.502	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.508	8.585	1885195	2732746	115.166	92.733	
37)	Toxaphene...	7.811	8.932	1647457	2954740	52.441	73.521	#
38)	Toxaphene...	8.156f	8.960	1934221	2903515	24.323	44.879	#
39)	Toxaphene...	8.366	9.070f	2376214	3288943	29.683	29.952	
40)	Toxaphene...	8.630f	9.217	2225780	3105433	41.064	54.168	#
41)	Toxaphene...	8.676	9.584	2272738	5338533	29.883	80.821	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

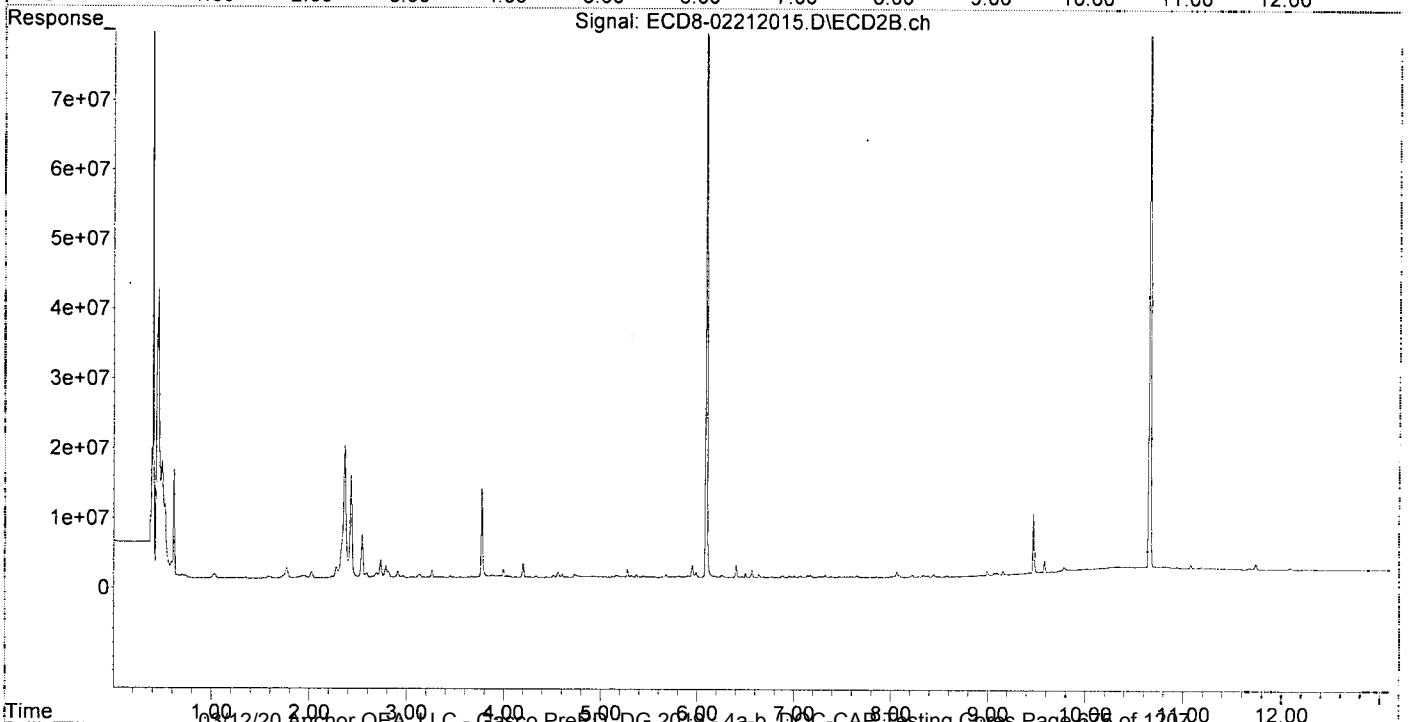
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:22
Operator : MJB
Sample : 0020634-BLK1
Misc : 1x, 8081B, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:38
Operator : MJB
Sample : 0020634-BS1
Misc : 1x, 8081B, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

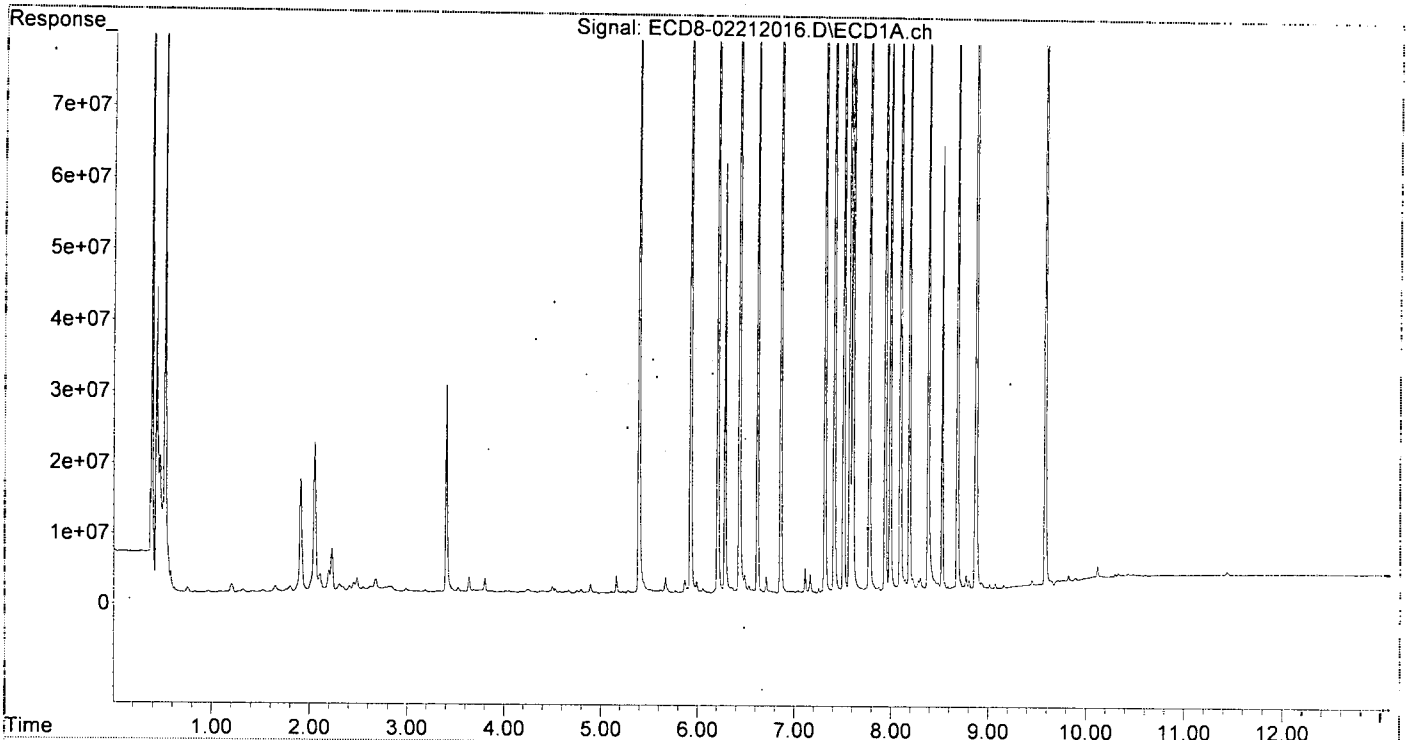
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.391	6.093	113.2E6	127.4E6	32.380	36.925	
22)	S	DCBP (S)	9.584	10.658	138.9E6	114.2E6	52.773	53.094	
		Target Compounds							
2)		a-BHC	5.926	6.692	157.0E6	156.9E6	33.222	34.531	
3)		g-BHC	6.207	7.010	141.3E6	137.3E6	33.934	33.458	
4)		b-BHC	6.282	7.072	60954715	63344845	34.998	36.488	
5)		Heptachlor	6.618	7.384	131.3E6	122.1E6	31.942	28.996	
6)		d-BHC	6.431	7.327	151.0E6	154.6E6	41.686	40.766	
7)		Aldrin	6.858	7.650	140.5E6	128.0E6	34.776	32.642	
8)		Heptachlo...	7.316	8.086	143.0E6	139.5E6	38.721	38.873	
9)		trans-Chl...	7.411	8.225	148.5E6	142.4E6	39.494	38.284	
10)		cis-Chlor...	7.509	8.333	147.2E6	140.7E6	40.085	39.937	
11)		Endosulfa...	7.603	8.384	140.3E6	137.7E6	40.456	41.663	
12)		4,4'-DDE	7.571	8.434	156.8E6	158.9E6	47.219	46.753	
13)		Dieldrin	7.775	8.585	163.3E6	160.1E6	42.823	43.083	
14)		Endrin	7.938	8.813	145.2E6	128.5E6	44.480	41.888	
15)		4,4'-DDD	7.989	8.849	129.1E6	125.1E6	50.710	47.539	
16)		Endosulfa...	8.094	8.959	126.2E6	129.9E6	42.183	45.480	
17)		4,4'-DDT	8.187	9.076	129.4E6	127.7E6	48.120	46.547	
18)		Endrin Al...	8.382	9.195	107.5E6	107.1E6	40.852	40.530	
19)		Endosulfa...	8.682	9.386	121.7E6	123.8E6	42.513	45.644	
20)		Methoxychlor	8.526	9.551	63033826	65045089	52.239	53.697	
21)		Endrin Ke...	8.875	9.788	155.9E6	138.3E6	45.100	45.108	
23)		Hexachlor...	3.186	3.772f	453031	19820860	0.116	4.094	#
24)		Hexachlor...	5.772	6.566	404598	3224682	0.120	1.068	#
25)		Oxychlordane	7.253	8.000	628894	2657732	0.025	0.831	#
26)		2,4'-DDE	7.316f	8.225	143.0E6	142.4E6	61.845	62.628	
27)		trans-Non...	7.509	8.287	147.2E6	3046352	40.151	0.844	#
28)		2,4'-DDD	7.742f	8.585	485797	160.1E6	0.251	83.656	#
29)		2,4'-DDT	7.874	8.813	642901	128.5E6	0.269	54.637	#
30)		cis-Nonac...	7.989	8.849	129.1E6	125.1E6	31.714	31.382	
31)		Mirex	8.634	9.788	341750	138.3E6	8198.988	64.366	#
32)		Chlordane...	7.411	8.225	148.5E6	142.4E6	370.856	327.645	
33)		Chlordane...	7.509	8.333	147.2E6	140.7E6	302.679	386.974	#
34)		Chlordane...	8.094f	8.992	126.2E6	4905479	969.234	41.307	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.509	8.585	147.2E6	160.1E6	8992.445	5434.260	#
37)		Toxaphene...	0.000	8.959	0	129.9E6	N.D.	3231.521	#
38)		Toxaphene...	8.146	8.959	1615920	129.9E6	19.799	2007.398	#
39)		Toxaphene...	8.382	9.034	107.5E6	3658744	1623.700	33.780	#
40)		Toxaphene...	8.587	9.195f	471868	107.1E6	8.706	1869.019	#
41)		Toxaphene...	8.682	9.583	121.7E6	5730115	1599.897	86.749	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

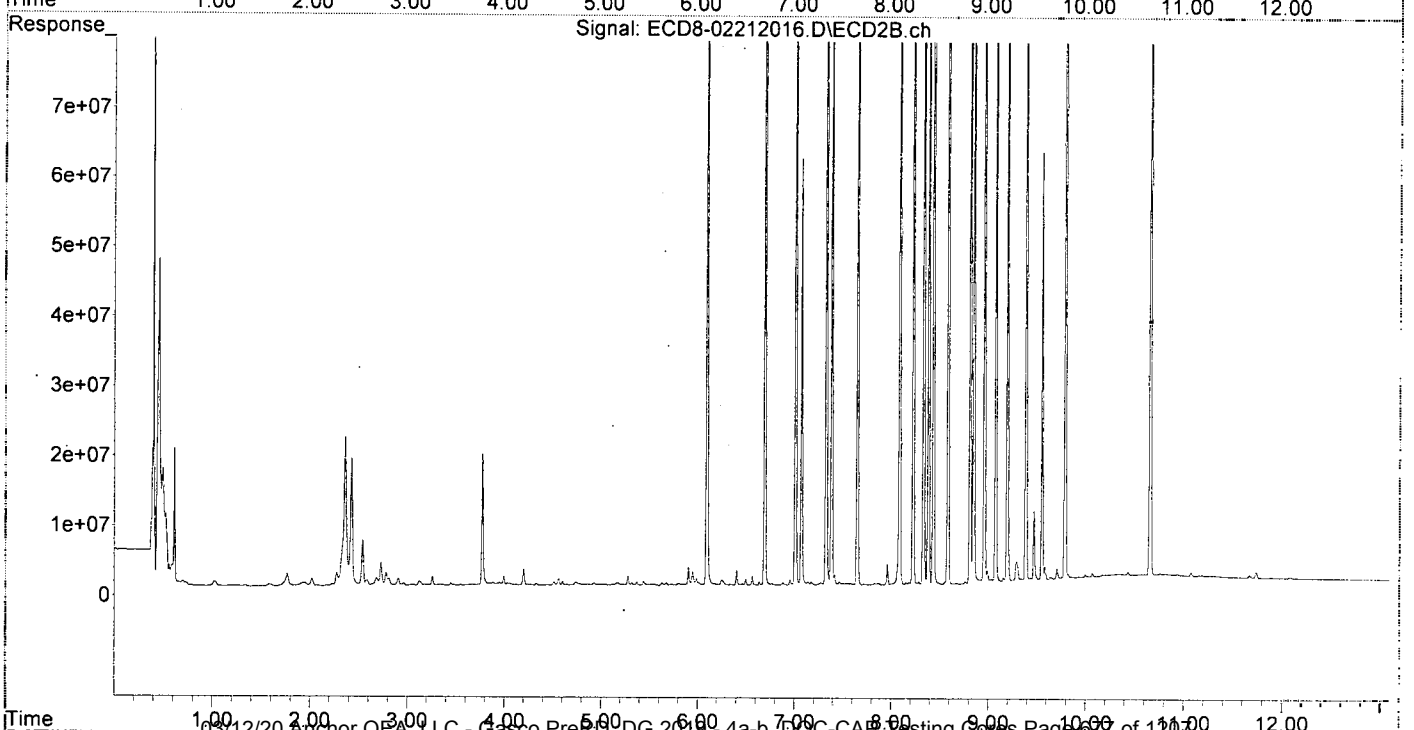
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 15:38
Operator : MJB
Sample : 0020634-BS1
Misc : 1x, 8081B, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 16:49:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:05
Operator : MJB
Sample : 0B21033-CCV3
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 17:27:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/24/20

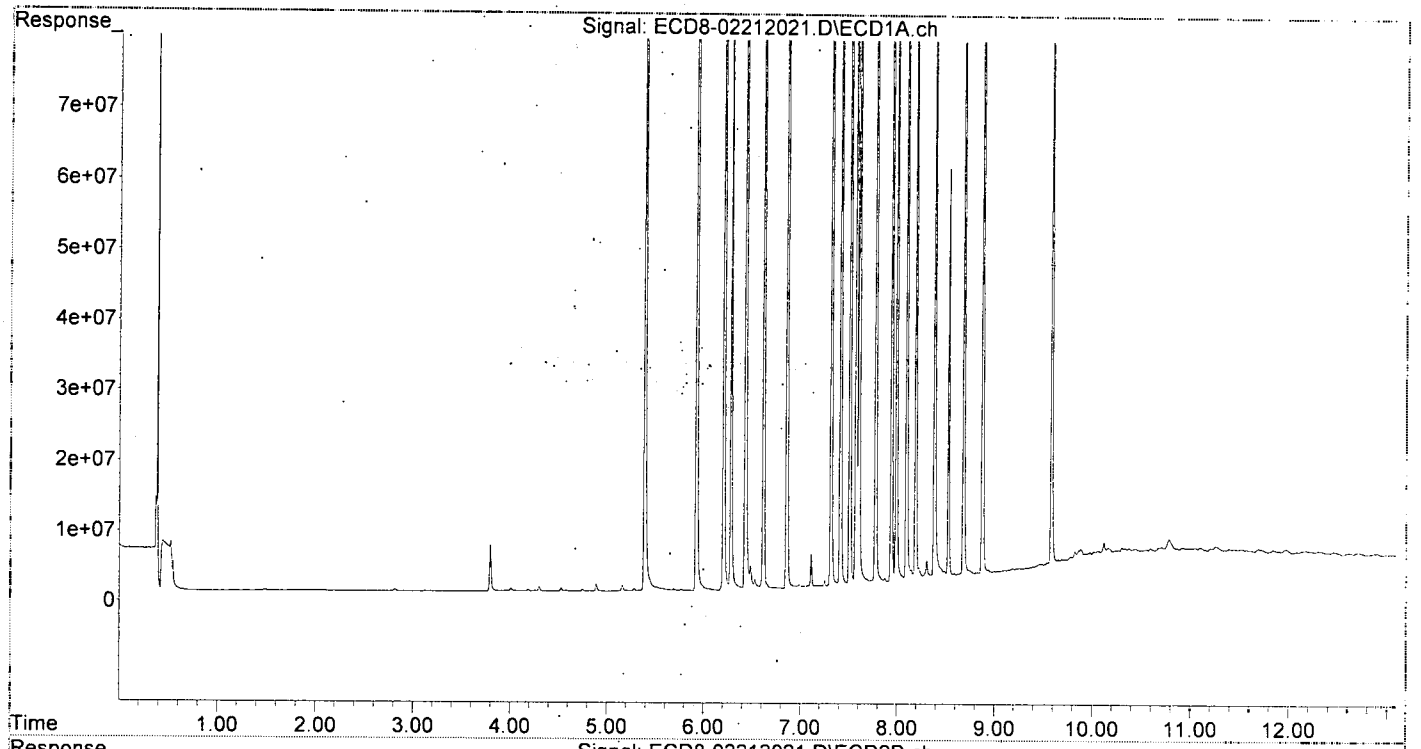
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.391	6.091	163.0E6	176.8E6	46.622	51.261	
22)	S	DCBP (S)	9.586	10.659	122.5E6	101.9E6	46.616	47.561	
		Target Compounds							
2)		a-BHC	5.926	6.691	238.0E6	239.5E6	50.380	51.137	
3)		g-BHC	6.207	7.009	209.1E6	202.6E6	50.231	48.285	
4)		b-BHC	6.283	7.071	84594156	83357622	48.571	48.016	
5)		Heptachlor	6.619	7.383	193.4E6	177.5E6	47.047	42.159	
6)		d-BHC	6.431	7.326	186.9E6	188.2E6	51.005	48.828	
7)		Aldrin	6.859	7.650	197.3E6	189.2E6	48.838	47.262	
8)		Heptachlo...	7.317	8.086	174.7E6	173.7E6	47.303	48.381	
9)		trans-Chl...	7.414	8.225	180.4E6	177.7E6	47.980	47.784	
10)		cis-Chlor...	7.510	8.332	170.7E6	166.3E6	46.496	47.204	
11)		Endosulfa...	7.605	8.384	163.1E6	159.0E6	47.019	48.117	
12)		4,4'-DDE	7.573	8.433	174.5E6	175.2E6	52.559	51.107	
13)		Dieldrin	7.776	8.584	182.3E6	179.6E6	47.808	48.004	
14)		Endrin	7.940	8.812	146.8E6	136.1E6	44.977	44.207	
15)		4,4'-DDD	7.991	8.849	128.4E6	130.1E6	50.447	49.254	
16)		Endosulfa...	8.096	8.959	132.8E6	141.3E6	44.380	49.185	
17)		4,4'-DDT	8.190	9.076	128.1E6	129.2E6	47.653	47.009	
18)		Endrin Al...	8.383	9.195	116.5E6	125.4E6	44.243	47.415	
19)		Endosulfa...	8.684	9.386	124.7E6	128.4E6	43.558	47.243	
20)		Methoxychlor	8.529	9.552	58509160	60943134	48.489	50.641	
21)		Endrin Ke...	8.877	9.788	153.3E6	145.9E6	44.361	47.425	
23)		Hexachlor...	3.194f	3.796	53583	35469	0.014	0.007	#
24)		Hexachlor...	5.771	6.566	251736	160506	0.075	0.001	#
25)		Oxychlordane	7.254	8.045f	767156	538007	0.070	0.168	#
26)		2,4'-DDE	7.317f	8.225	174.7E6	177.7E6	75.551	78.169	
27)		trans-Non...	7.510	8.288	170.7E6	808681	46.573	0.224	#
28)		2,4'-DDD	7.743f	8.584	523328	179.6E6	0.270	93.846	#
29)		2,4'-DDT	7.876	8.812	706489	136.1E6	0.295	57.575	#
30)		cis-Nonac...	7.991	8.849	128.4E6	130.1E6	31.549	32.649	
31)		Mirex	8.632	9.788	694962	145.9E6	0.080	67.816	#
32)		Chlordane...	7.414	8.225	180.4E6	177.7E6	450.534	408.948	
33)		Chlordane...	7.510	8.332	170.7E6	166.3E6	351.090	457.384	#
34)		Chlordane...	8.057	8.992	876188	2238516	6.730	18.850	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.510	8.584	170.7E6	179.6E6	10430.716	6096.149	#
37)		Toxaphene...	0.000	8.959	0	141.3E6	N.D.	3516.379	#
38)		Toxaphene...	8.146	8.959	1712125	141.3E6	21.167	2184.349	#
39)		Toxaphene...	8.383	9.034	116.5E6	1675678	1756.659	13.228	#
40)		Toxaphene...	8.590	9.195f	883385	125.4E6	16.298	2186.536	#
41)		Toxaphene...	8.653	9.607	813821	2247486	10.701	34.025	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

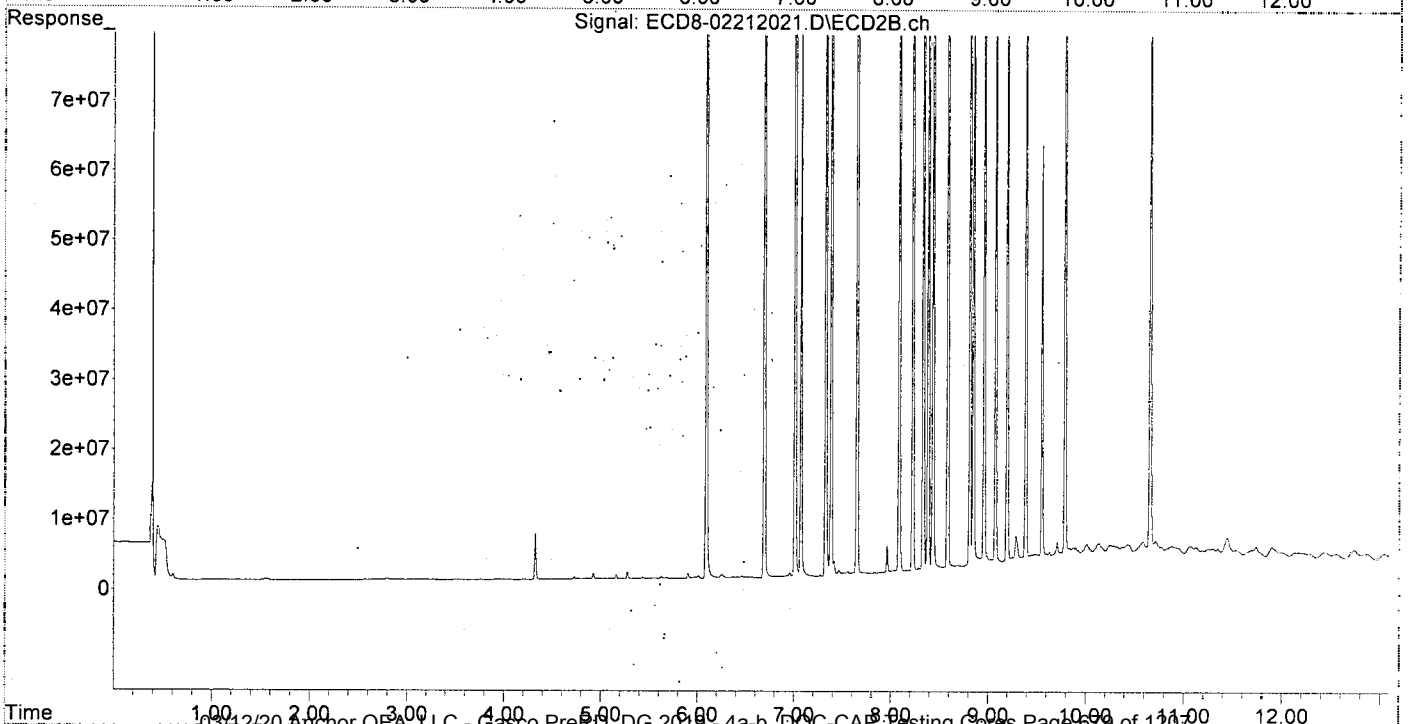
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:05
Operator : MJB
Sample : 0B21033-CCV3
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 17:27:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:22
Operator : MJB
Sample : 0B21033-CCV4
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 18:10:15 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

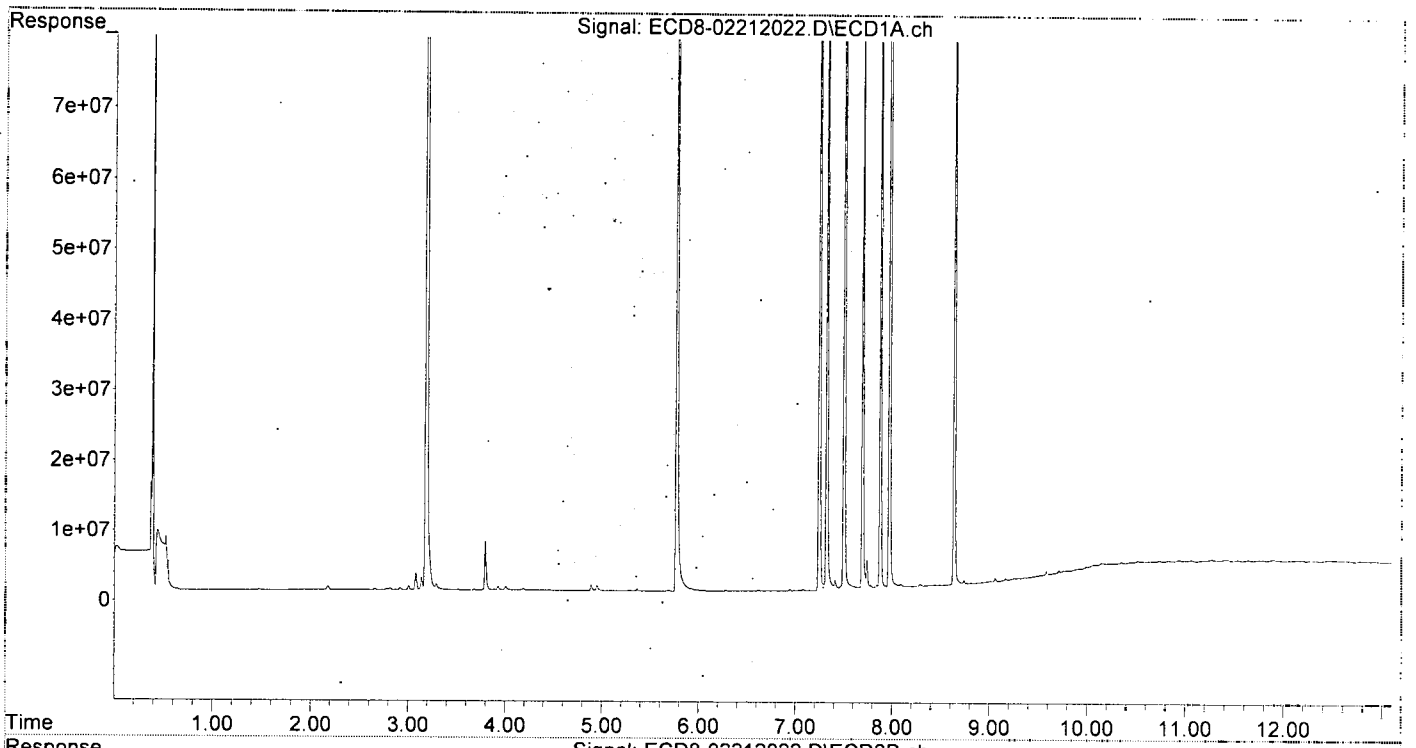
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.365f	6.087	350222	171111	0.100	0.050	#
22)	S	DCBP (S)	9.585	10.658	1280066	1746127	0.166	0.357	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.211	7.017	35623	30001	0.009	0.050	#
4)		b-BHC	6.279	7.072	211914	62552	0.122	0.036	#
5)		Heptachlor	6.617	7.383	192351	304375	0.047	0.072	#
6)		d-BHC	6.436	7.327	48775	150390	0.121	0.140	
7)		Aldrin	6.863	7.653	20671	124941	0.005	0.045	#
8)		Heptachlo...	7.323	8.084	121.1E6	534508	32.795	0.149	#
9)		trans-Chl...	7.412	8.213	1508407	122.1E6	0.401	32.828	#
10)		cis-Chlor...	7.502	8.329	180.9E6	534533	49.271	0.152	#
11)		Endosulfa...	7.601	8.385	430192	344638	0.124	0.104	
12)		4,4'-DDE	7.601f	8.434	430192	384411	0.130	0.212	#
13)		Dieldrin	7.781	8.585	465899	95887069	0.122	26.412	#
14)		Endrin	7.934	8.810	279123	114.8E6	0.086	37.651	#
15)		4,4'-DDD	7.970f	8.853	201.0E6	195.5E6	78.987	70.444	
16)		Endosulfa...	8.091	8.961	486055	580328	0.162	0.190	
17)		4,4'-DDT	8.188	9.074	124807	829185	0.046	0.313	#
18)		Endrin Al...	8.378	9.197	108484	598402	0.041	0.226	#
19)		Endosulfa...	0.000	9.386	0	890071	N.D.	0.267	#
20)		Methoxychlor	8.534	9.560	12297	1091445	0.010	0.656	#
21)		Endrin Ke...	8.879	9.782	140919	110.9E6	0.041	36.658	#
23)		Hexachlor...	3.185	3.798	193.5E6	242.0E6	49.651	49.986	
24)		Hexachlor...	5.770	6.557	170.0E6	179.3E6	50.566	56.670	
25)		Oxychlordane	7.245	8.014	159.5E6	150.8E6	51.392	47.166	
26)		2,4'-DDE	7.323	8.213	121.1E6	122.1E6	52.379	53.703	
27)		trans-Non...	7.502	8.288	180.9E6	171.2E6	49.352	47.418	
28)		2,4'-DDD	7.692	8.585	104.5E6	95887069	53.981	50.090	
29)		2,4'-DDT	7.875	8.810	119.5E6	114.8E6	49.927	49.247	
30)		cis-Nonac...	7.970	8.853	201.0E6	195.5E6	49.398	49.067	
31)		Mirex	8.638	9.782	119.9E6	110.9E6	49.604	51.901	
32)		Chlordane...	7.412	8.213	1508407	122.1E6	3.766	280.951	#
33)		Chlordane...	7.502	8.329	180.9E6	534533	372.042	1.470	#
34)		Chlordane...	8.091f	8.997	486055	1015513	3.733	8.551	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.502f	8.585	180.9E6	95887069	11053.210	3253.833	#
37)		Toxaphene...	7.845f	8.934	530877	728591	16.899	18.129	
38)		Toxaphene...	8.147	8.961	118374	580328	96752.255	8.970	#
39)		Toxaphene...	8.378	9.040	108484	753948	BelowCal	3.655	
40)		Toxaphene...	0.000	9.197f	0	598402	N.D.	10.438	#
41)		Toxaphene...	8.638f	9.586	119.9E6	1162636	1576.670	17.601	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

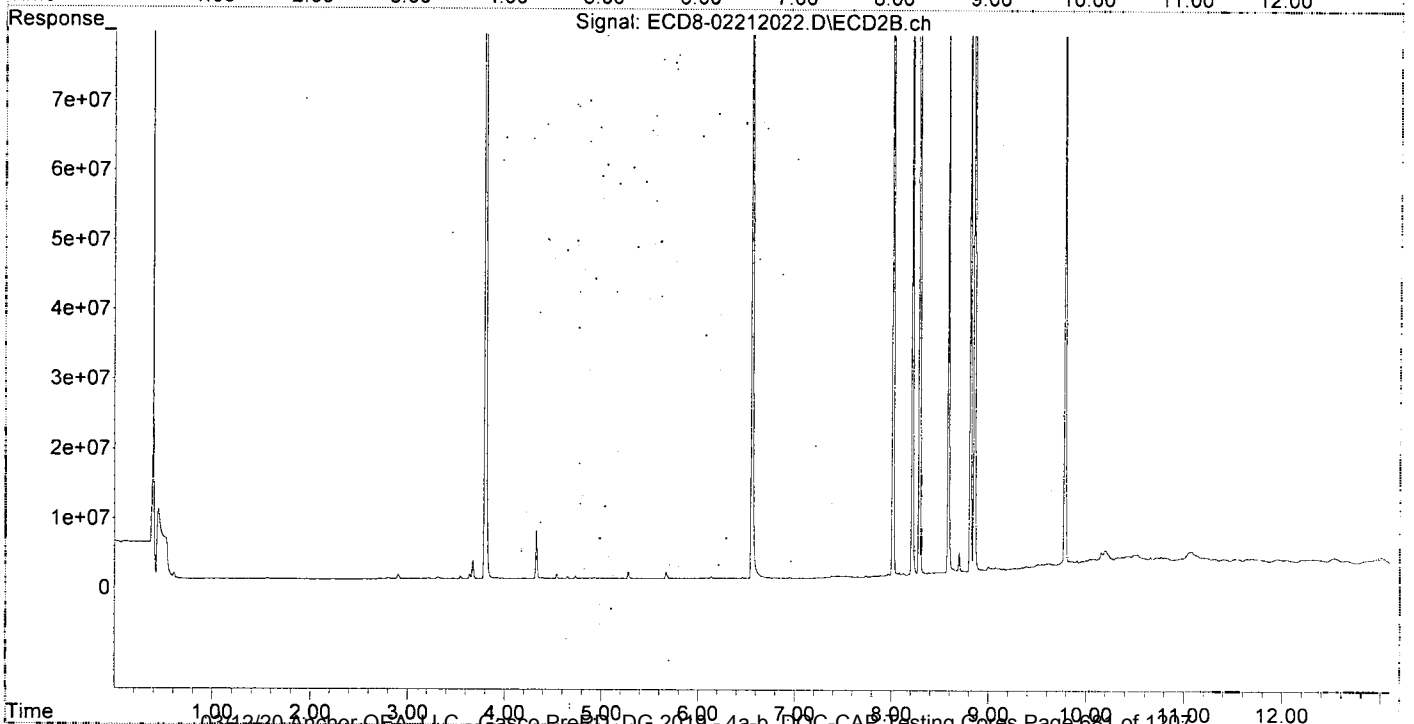
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:22
Operator : MJB
Sample : 0B21033-CCV4
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 18:10:15 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:38
Operator : MJB
Sample : 0B21033-CCB3
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 18:10:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/21/20

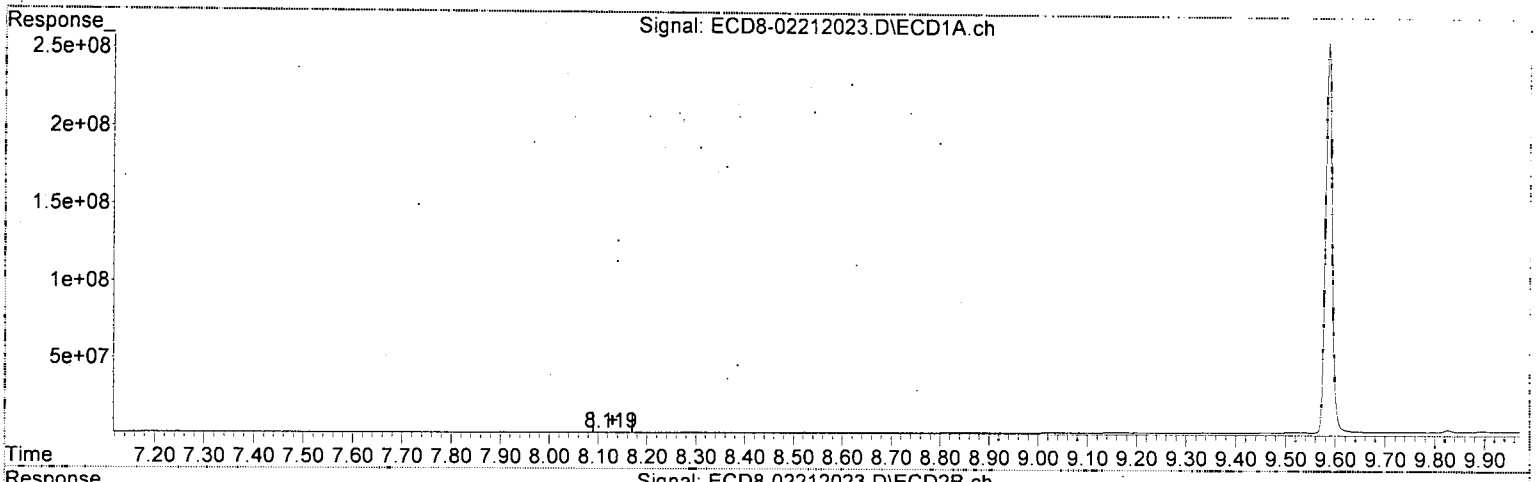
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.391	6.092	317.6E6	362.3E6	90.837	105.025	
22)	S	DCBP (S)	9.586	10.659	254.9E6	214.5E6	95.265	95.924	
		Target Compounds							
2)		a-BHC	5.935	0.000	57232	0	0.012	N.D.	#
3)		g-BHC	6.213	6.999	22069	24197	0.005	0.048	#
4)		b-BHC	6.285	7.063	184919	33912	0.106	0.020	#
5)		Heptachlor	6.613	0.000	9392	0	0.002	N.D.	#
6)		d-BHC	6.433	7.326	27791	92980	0.115	0.124	
7)		Aldrin	6.864	7.655	6544	366301	0.002	0.110	#
8)		Heptachlo...	7.318	8.084	18482	118134	0.005	0.033	#
9)		trans-Chl...	7.393f	8.224	269818	95723	0.072	0.026	#
10)		cis-Chlor...	7.501	0.000	81702	0	0.022	N.D.	#
11)		Endosulfa...	7.609	8.393	16835	143452	0.005	0.043	#
12)		4,4'-DDE	7.571	8.436	35987	216324	0.011	0.158	#
13)		Dieldrin	7.778	8.588	16508	241856	0.004	0.101	#
14)		Endrin	7.940	8.793f	22127	94947	0.007	0.026	#
15)		4,4'-DDD	7.993	8.859	35280	195625	0.014	0.127	#
16)		Endosulfa...	8.091	8.968	289114	320867	0.097	0.091	
17)		4,4'-DDT	8.192	9.076	43941	421627	0.016	0.146	#
18)		Endrin Al...	8.380	9.190	108238	513150	0.041	0.194	#
19)		Endosulfa...	8.684	9.391	58669	639870	0.020	0.167	#
20)		Methoxychlor	8.560f	9.556	107294	842278	0.089	0.421	#
21)		Endrin Ke...	8.881	9.790	87257	1063796	0.025	0.154	#
23)		Hexachlor...	3.194	3.812	53743	75308	0.014	0.016	
24)		Hexachlor...	5.772	6.570	452117	106455	0.134	BelowCal	#
25)		Oxychlordane	7.247	8.031	245960	200851	BelowCal	0.063	
26)		2,4'-DDE	7.318	8.224	18482	95723	0.008	0.042	#
27)		trans-Non...	7.501	8.293	81702	101544	0.022	0.028	#
28)		2,4'-DDD	7.698	8.588	13886	241856	0.007	0.126	#
29)		2,4'-DDT	7.877	8.793	11439	94947	0.005	BelowCal	#
30)		cis-Nonac...	7.976	8.859	28027	195625	0.007	0.049	#
31)		Mirex	8.638	9.790	65483	1063796	8199.102	0.262	#
32)		Chlordane...	7.393f	8.224	269818	95723	0.674	0.220	#
33)		Chlordane...	7.501	0.000	81702	0	0.168	N.D.	#
34)		Chlordane...	8.056	8.997	84592	810381	0.650	6.824	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.547	8.597	36843	227729	2.251	7.728	#
37)		Toxaphene...	7.812	8.935	9310	428208	0.296	10.655	#
38)		Toxaphene...	8.120	8.968	59821	320867	~~96753.087~~	4.960	#
39)		Toxaphene...	8.371	9.039	127537	400879	BelowCal	BelowCal	
40)		Toxaphene...	8.601	9.236	84421	463853	1.558	8.091	#
41)		Toxaphene...	8.684f	9.593	58669	797902	0.771	12.080	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

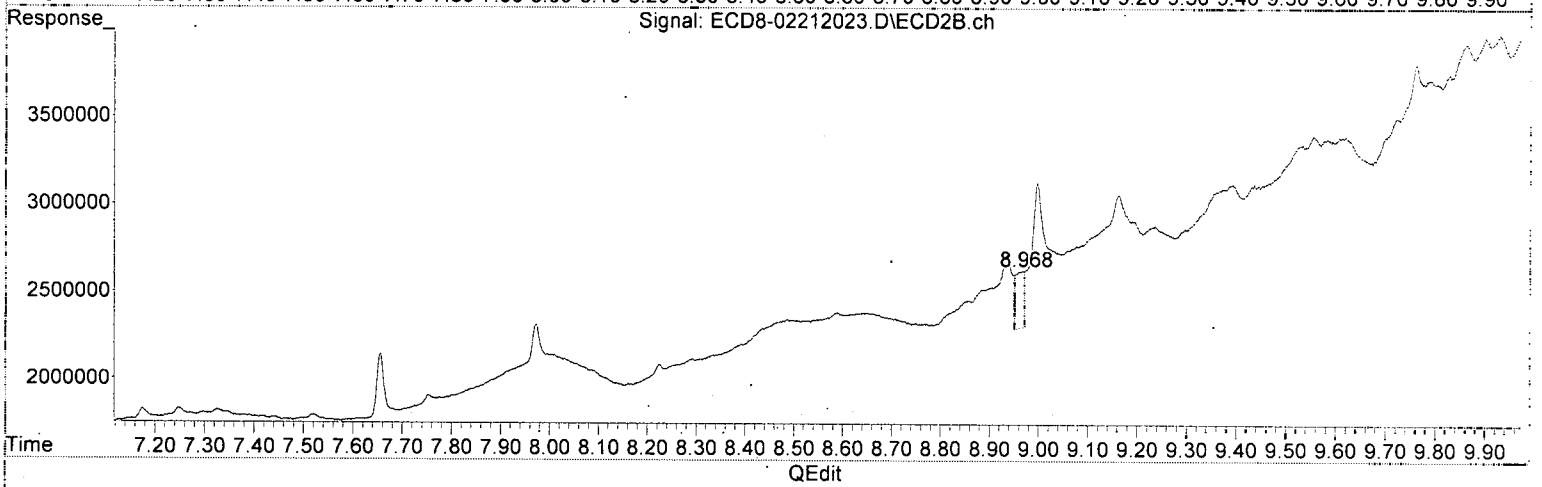
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:38
Operator : MJB
Sample : 0B21033-CCB3
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 18:10:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

8.120min 96753.087 ng/mL

response 59821

(38) Toxaphene (3) #2

8.968min 4.960 ng/mL

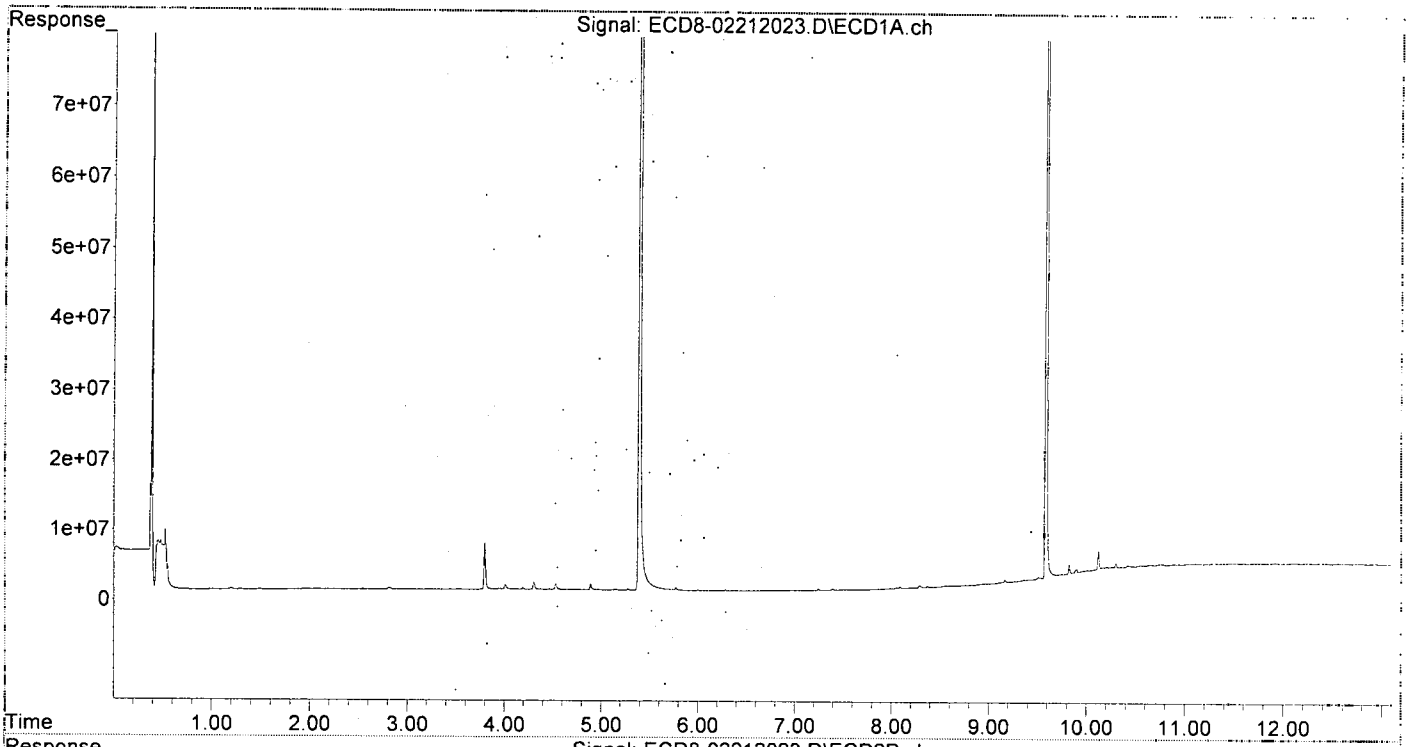
response 320867

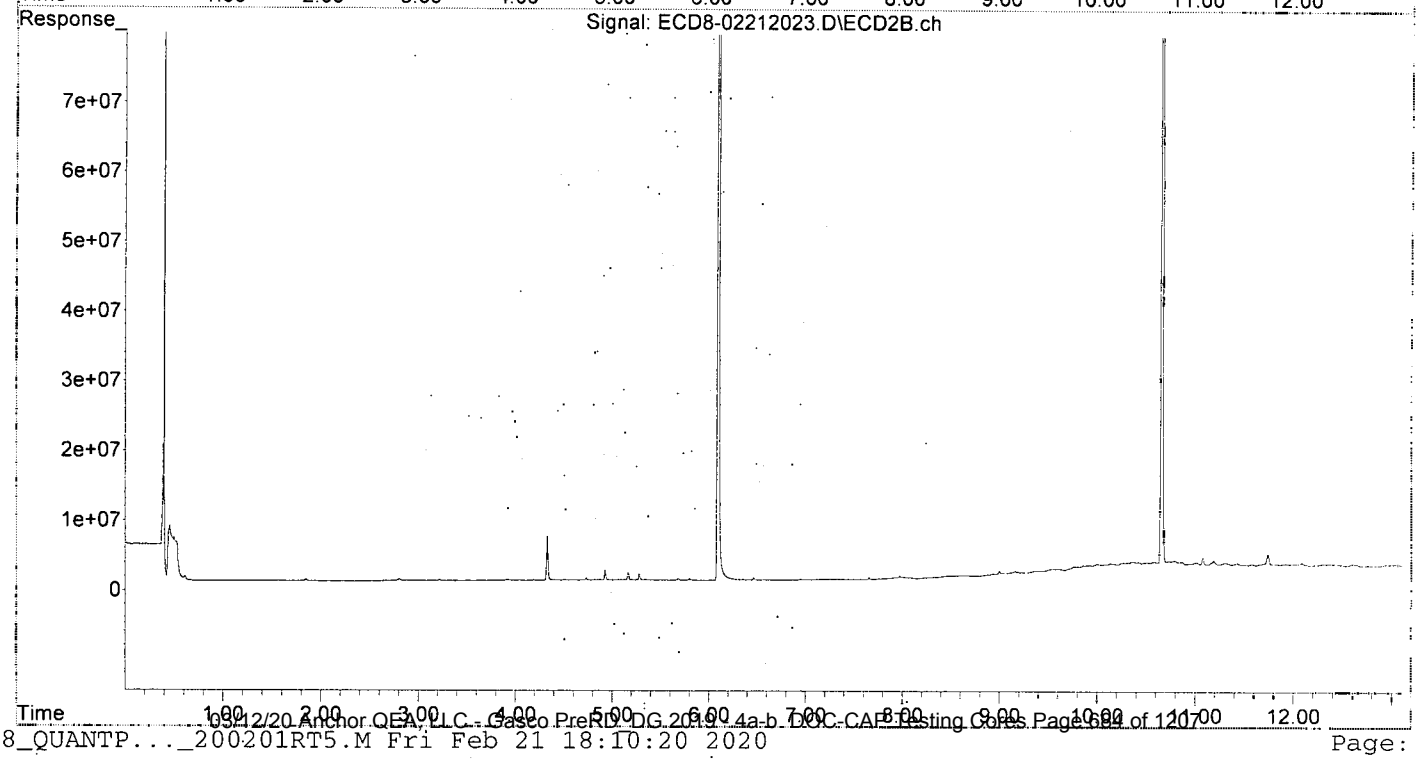
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 17:38
Operator : MJB
Sample : 0B21033-CCB3
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 21 18:10:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

P-04

MB 2/25/20

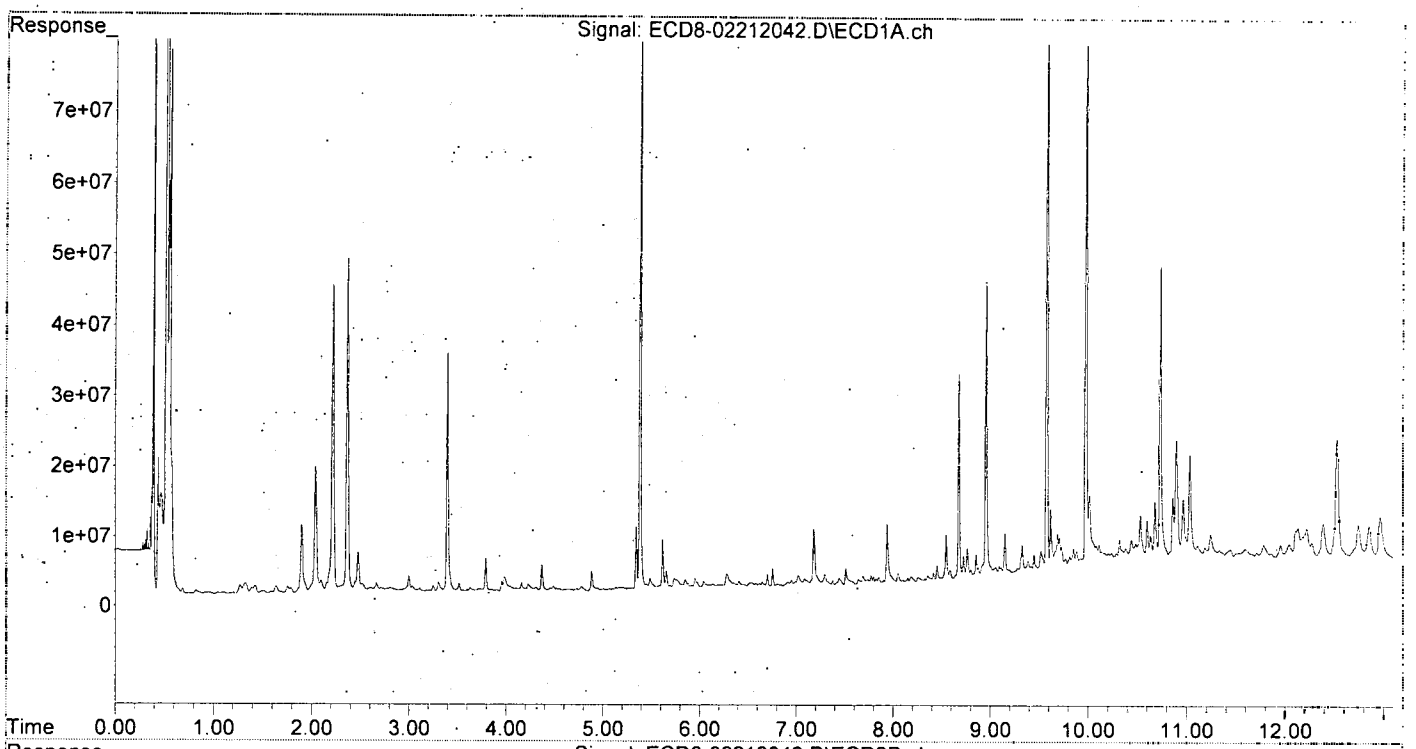
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.384	6.086	103.8E6	114.9E6	29.691	33.308	
22)	S DCBP (S)	9.575	10.648	123.2E6	99040924	46.885	46.282	
	Target Compounds							
2)	a-BHC	5.917	6.684	1593296	633235	0.337	0.224	#
3)	g-BHC	6.209	7.030	1669818	712130	0.401	0.225	#
4)	b-BHC	6.281	7.081	3258609	1239981	1.871	0.714	#
5)	Heptachlor	6.622	7.382	1894043	1409508	0.461	0.335	#
6)	d-BHC	6.454f	7.341	1726117	572628	0.606	0.261	#
7)	Aldrin	6.842	7.643	1715402	346798	0.425	0.105	#
8)	Heptachlo...	7.295f	8.056f	3331407	651500	0.902	0.181	#
9)	trans-Chl...	7.441f	8.226	2807350	982159	0.747	0.264	#
10)	cis-Chlor...	7.511	8.343	4200204	2228749	1.144	0.633	#
11)	Endosulfa...	7.572f	8.405	2305857	886882	0.665	0.268	#
12)	4,4'-DDE	7.572	8.443	2305857	3397466	0.694	1.178m	# P-01
13)	Dieldrin	7.772	8.561f	3157601	13385182	0.828	3.835	#
14)	Endrin	7.936	8.836	10526883	1583414	3.226	0.543	#
15)	4,4'-DDD	0.000	8.836	0	1583414	N.D.	0.720	#
16)	Endosulfa...	8.102	8.944	2453837	2252750	0.820	0.823	
17)	4,4'-DDT	8.181	9.091	2118303	1647385	0.788m	0.646m	
18)	Endrin Al...	8.385	9.194	2862412	1048493	1.087	0.397	#
19)	Endosulfa...	8.674	9.395	31929298	4613051	11.156	1.752	#
20)	Methoxychlor	8.545	9.547	9073680	2196299	7.520	1.695	#
21)	Endrin Ke...	8.876	9.807	4409107	1757537	1.276	0.400	#
23)	Hexachlor...	3.182	3.823f	656359	747997	0.168	0.154	
24)	Hexachlor...	5.762	6.557	2398540	754338	0.714	0.208	#
25)	Oxychlordane	0.000	8.005	0	8727983	N.D.	2.729	#
26)	2,4'-DDE	7.309	8.226	1673674	982159	0.724m	0.432	#
27)	trans-Non...	7.511	8.297	4200204	2420527	1.146	0.671	#
28)	2,4'-DDD	7.691	8.571	2205186	6115754	1.139m	3.195m	# P-01
29)	2,4'-DDT	7.849f	8.796	2019958	1117817	0.844m	0.476	#
30)	cis-Nonac...	7.936f	8.836	10526883	1583414	2.587	0.397	#
31)	Mirex	8.674f	9.773	31929298	3568528	12.997	1.471	#
32)	Chlordane...	7.441	8.226	2807350	982159	7.010	2.261	#
33)	Chlordane...	7.511	8.343	4200204	2228749	8.637	6.130	#
34)	Chlordane...	8.049	8.984	3455806	1506884	26.543	12.689	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.511	8.561f	4200204	13385182	256.589	454.213	#
37)	Toxaphene...	7.823	8.944	2703550	2252750	86.058	56.054	#
38)	Toxaphene...	8.131	8.984	2393399	1506884	30.850	23.292	
39)	Toxaphene...	8.385	9.048	2862412	1330795	37.173	9.648	#
40)	Toxaphene...	8.586	9.231	4047723	1207705	74.678	21.066	#
41)	Toxaphene...	8.674	9.604	31929298	2253386	419.824	34.114	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

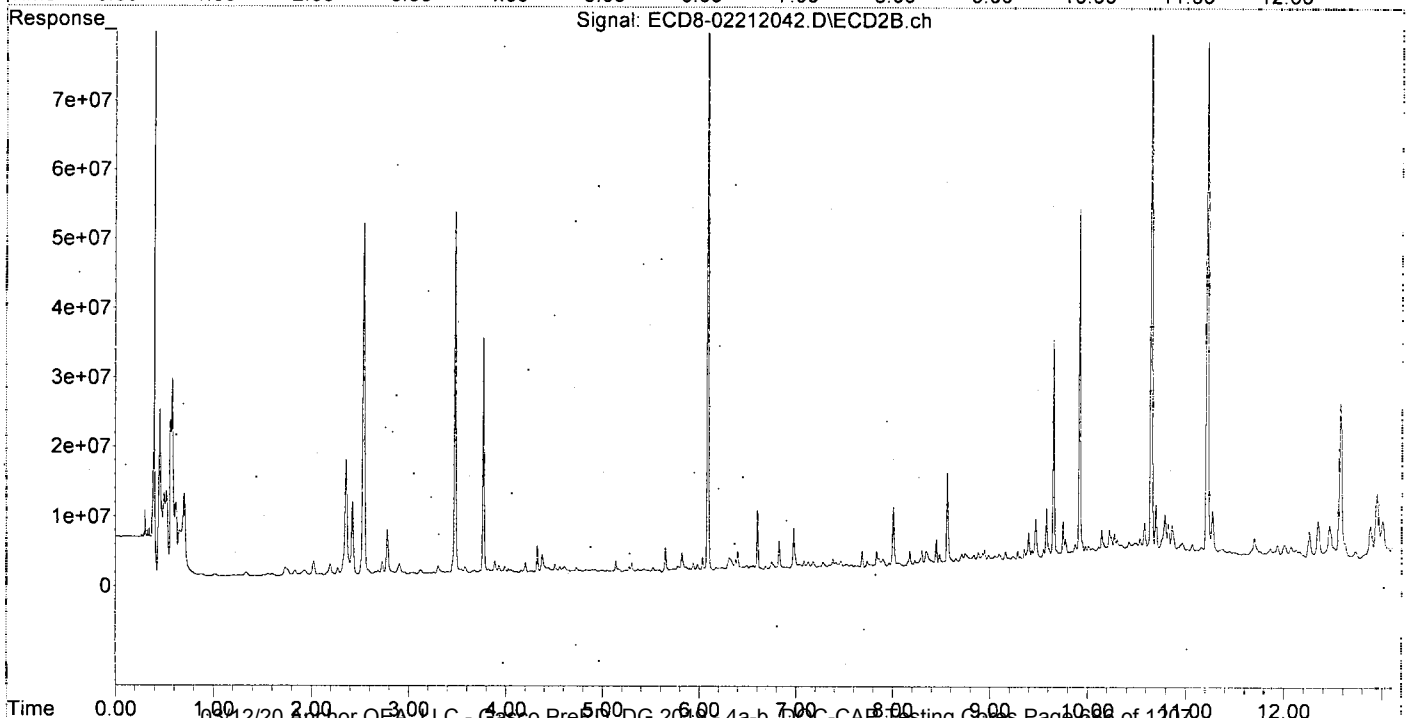
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

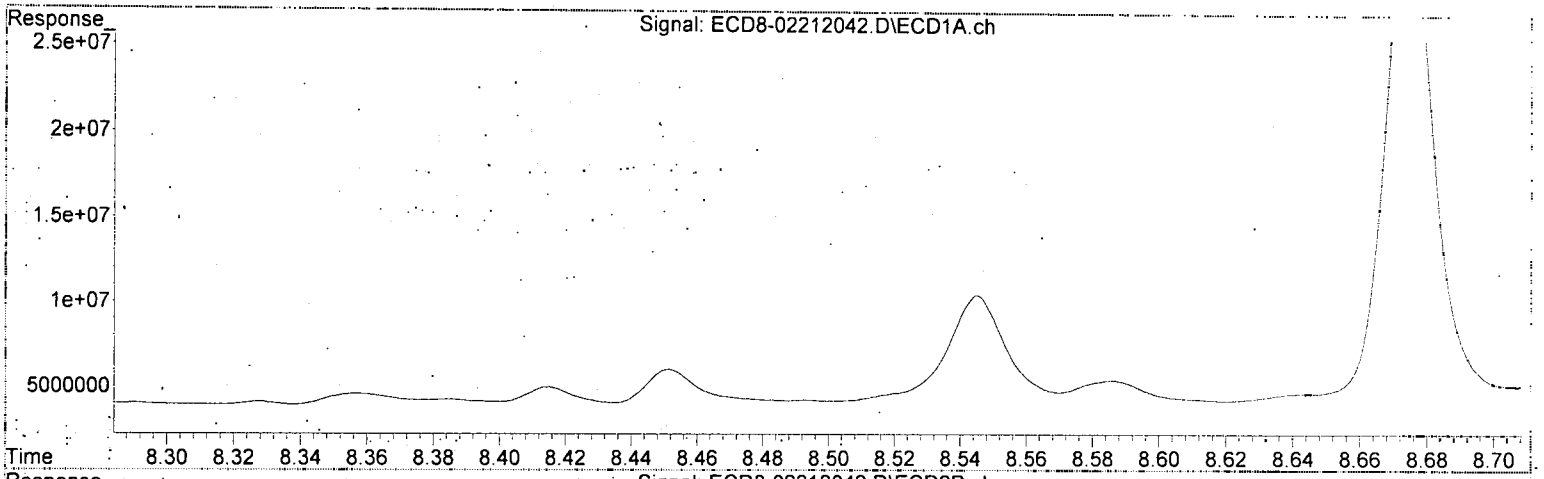


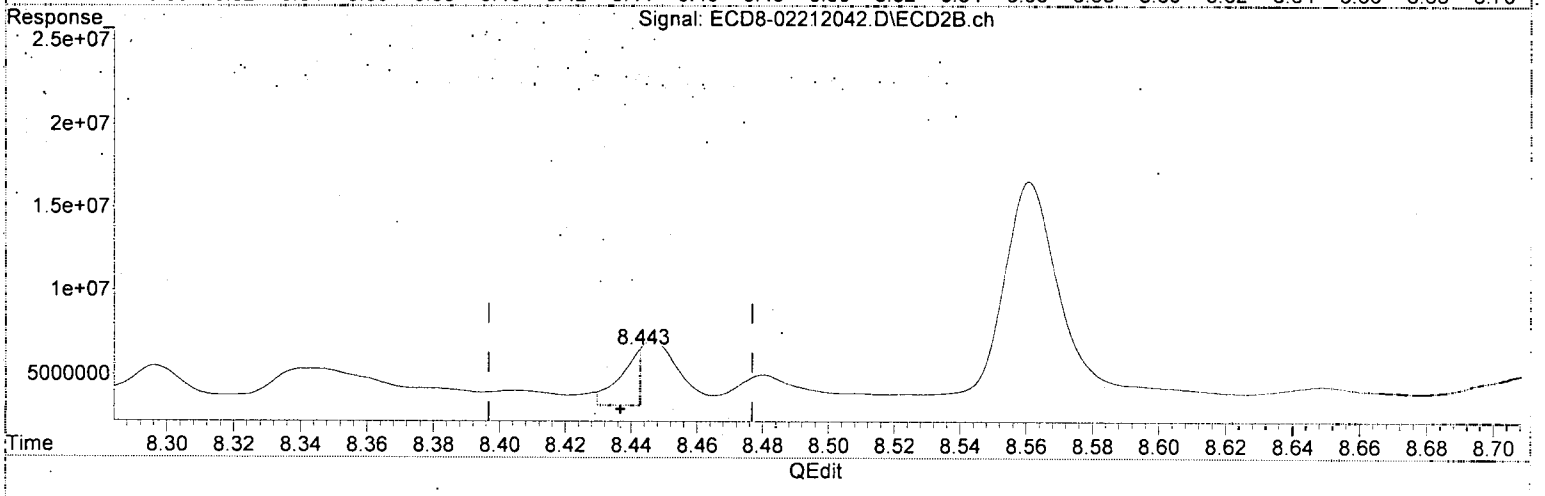


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(12) 4,4'-DDE

7.572min 0.694 ng/mL

response 2305857

MJB 2/25/20

(12) 4,4'-DDE #2

8.443min 1.178 ng/mL (m) P.M

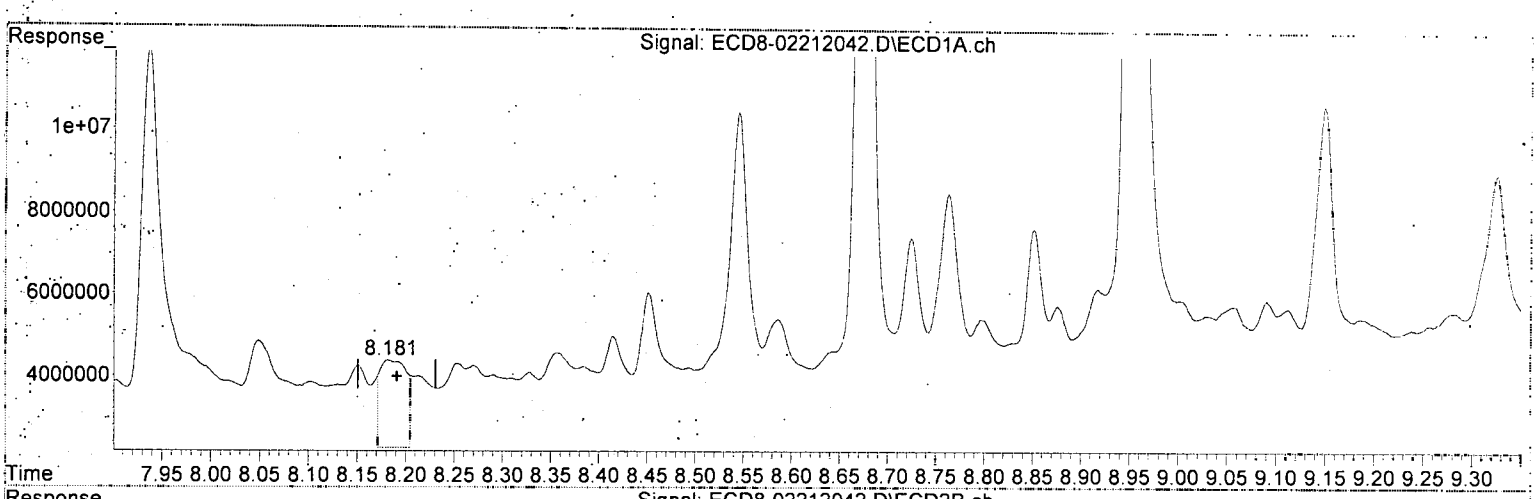
response 3397466

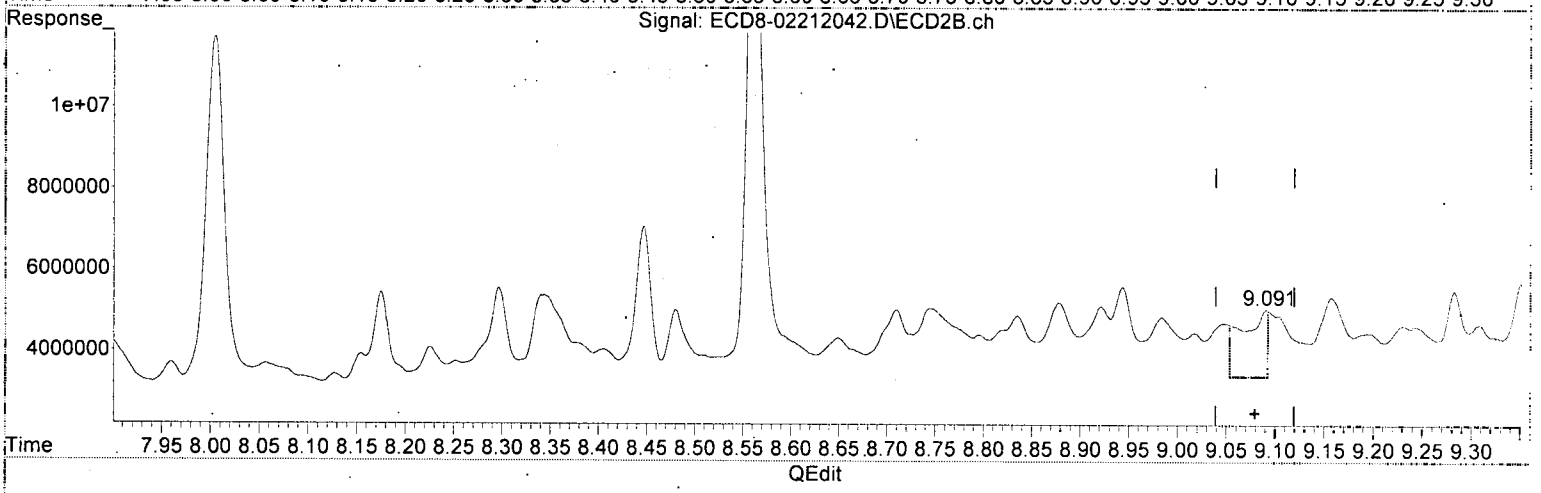
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(17) 4,4'-DDT

8.181min 0.788 ng/mL(m)

response 2118303

MB 2/25/20

(17) 4,4'-DDT #2

9.091min 0.646 ng/mL(m)

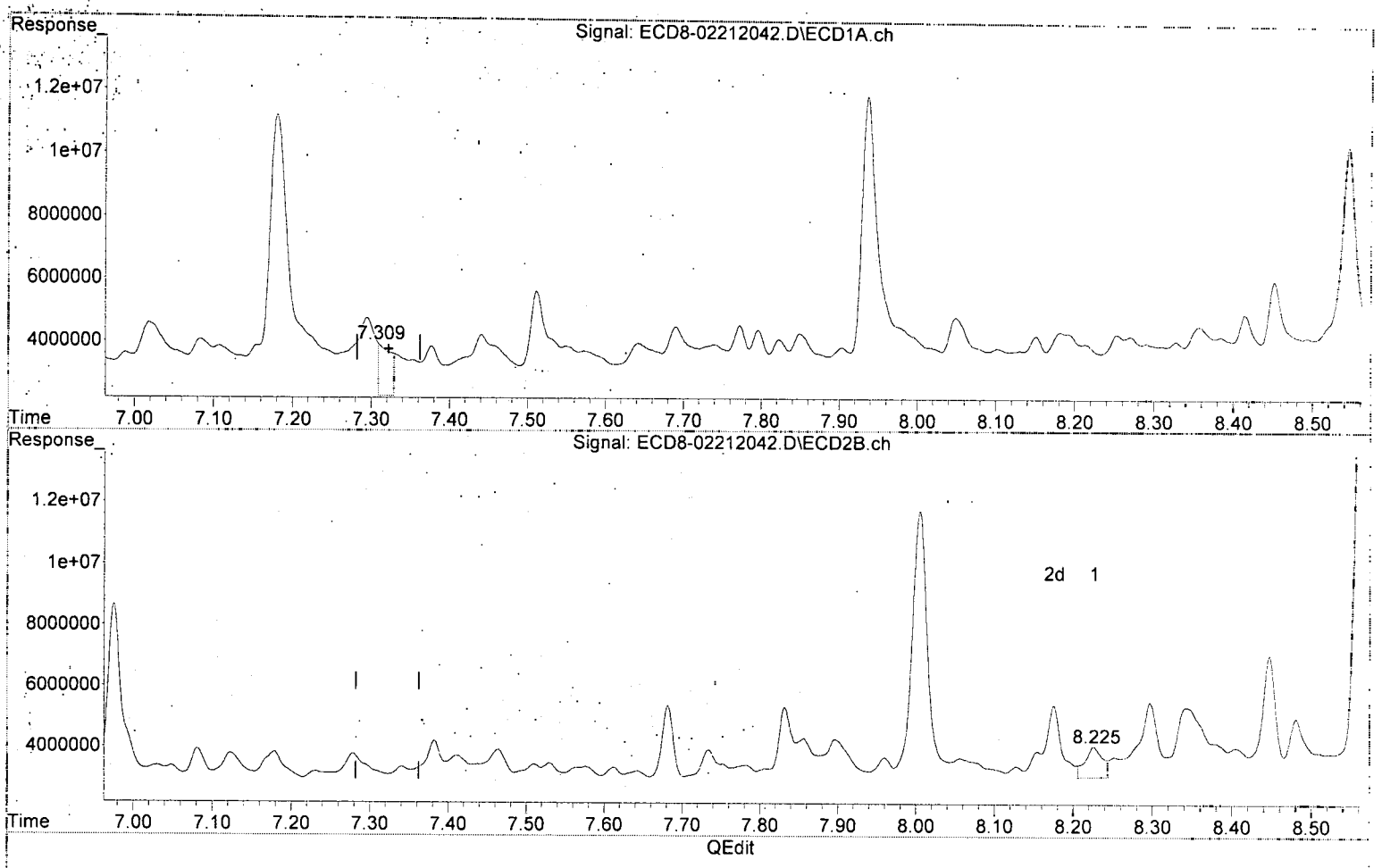
response 1647385

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE

7.309min 0.724 ng/mL m

response 1673674

MJB 2/25/20

(26) 2,4'-DDE #2

8.226min 0.432 ng/mL

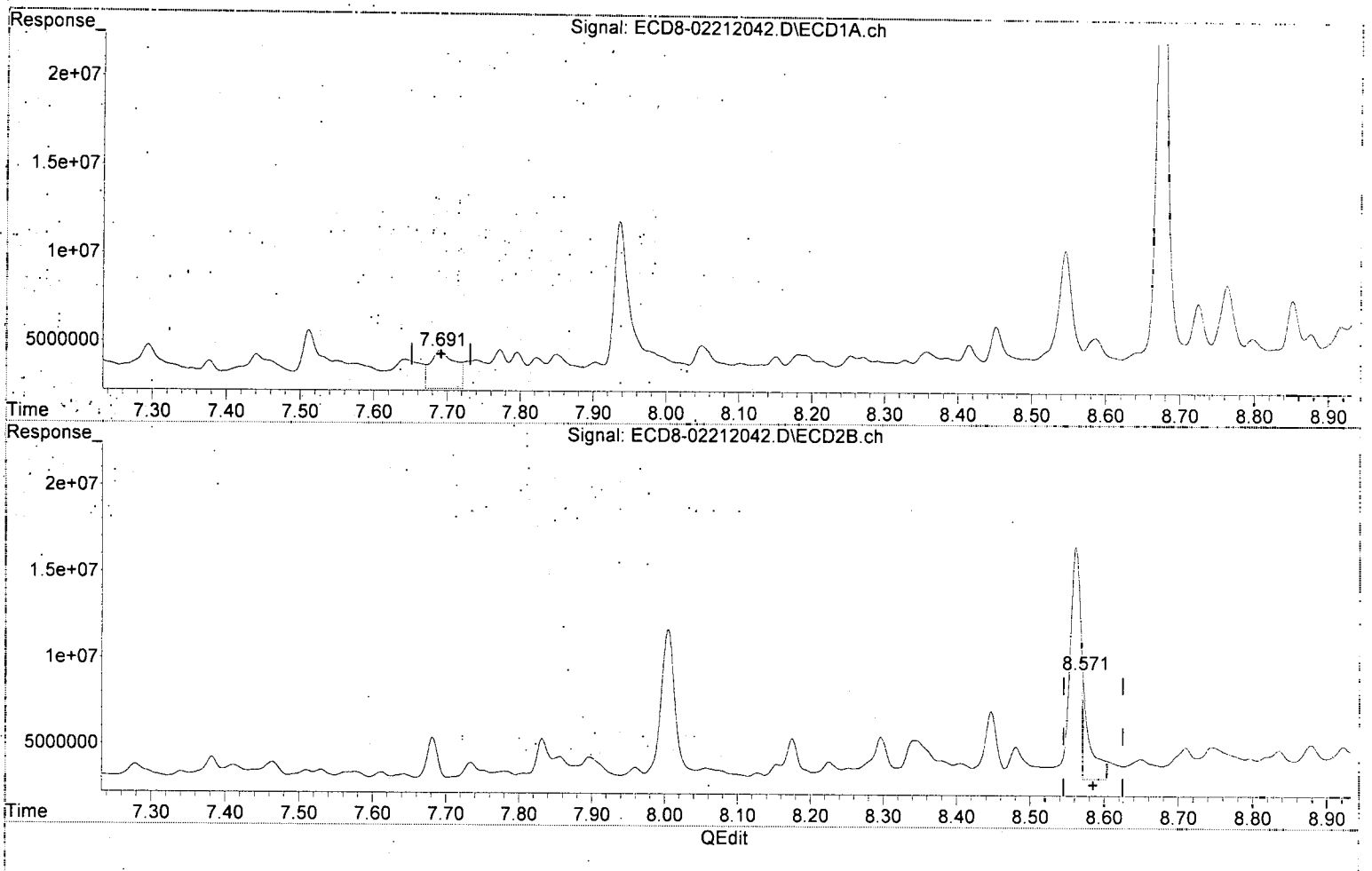
response 982159

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.691min 1.139 ng/mL m MDL-MRL

response 2205186

MJB 22 E 3/2'

(28) 2,4'-DDD #2

8.571min 3.195 ng/mL m 2.91

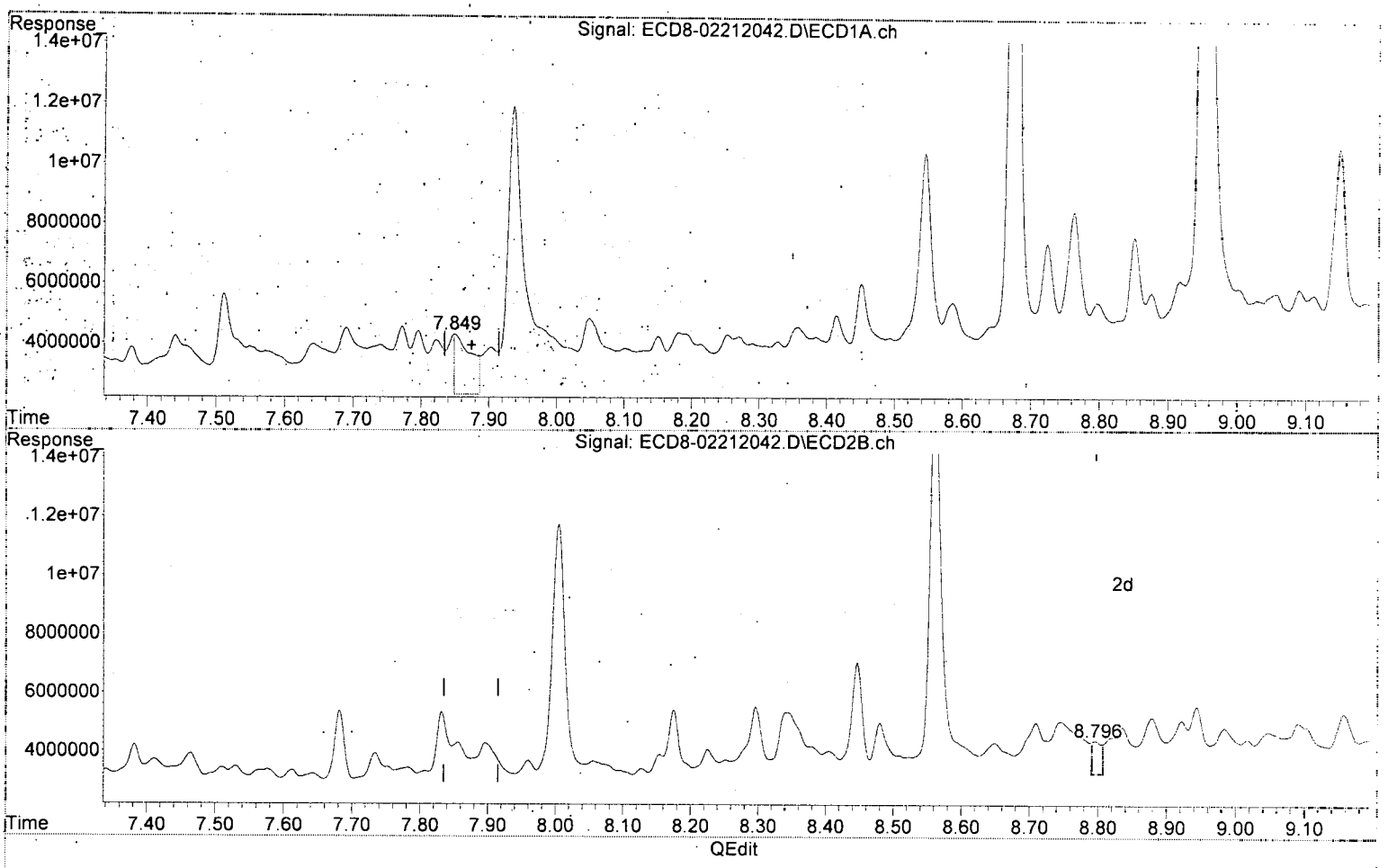
response 6115754

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.849min 0.844 ng/mL m

response 2019958

MJB 2/25/20

(29) 2,4'-DDT #2

8.796min 0.476 ng/mL

response 1117817

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MI MJB 2/25/20

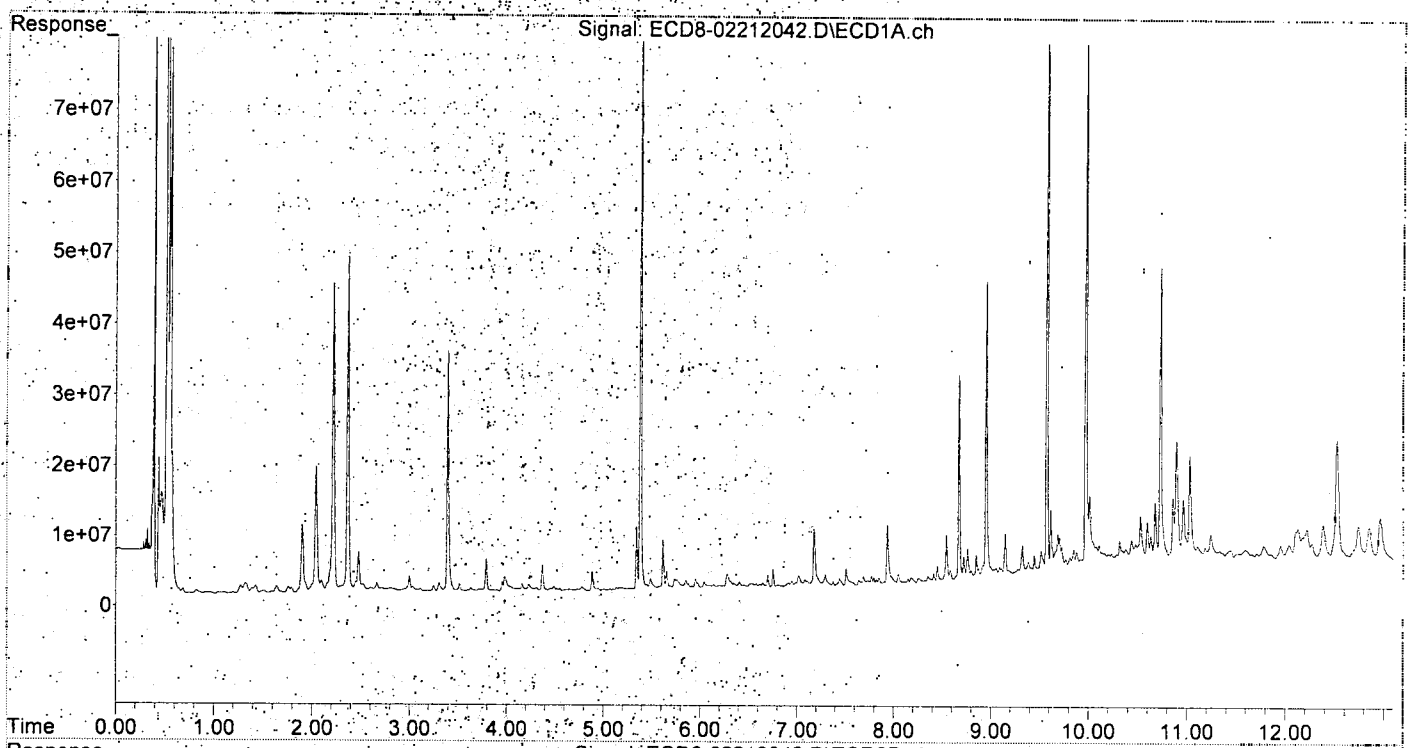
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.384	6.086	103.8E6	114.9E6	29.691	33.308	
22)	S DCBP (S)	9.575	10.648	123.2E6	99040924	46.885	46.282	
	Target Compounds							
2)	a-BHC	5.917	6.684	1593296	633235	0.337	0.224	#
3)	g-BHC	6.209	7.030	1669818	712130	0.401	0.225	#
4)	b-BHC	6.281	7.081	3258609	1239981	1.871	0.714	#
5)	Heptachlor	6.622	7.382	1894043	1409508	0.461	0.335	#
6)	d-BHC	6.454f	7.341	1726117	572628	0.606	0.261	#
7)	Aldrin	6.842	7.643	1715402	346798	0.425	0.105	#
8)	Heptachlo...	7.295f	8.056f	3331407	651500	0.902	0.181	#
9)	trans-Chl...	7.441f	8.226	2807350	982159	0.747	0.264	#
10)	cis-Chlor...	7.511	8.343	4200204	2228749	1.144	0.633	#
11)	Endosulfa...	7.572f	8.405	2305857	886882	0.665	0.268	#
12)	4,4'-DDE	7.572	8.447	2305857	3898718	0.694	1.338	#
13)	Dieldrin	7.772	8.561f	3157601	13385182	0.828	3.835	#
14)	Endrin	7.936	8.836	10526883	1583414	3.226	0.543	#
15)	4,4'-DDD	0.000	8.836	0	1583414	N.D.	0.720	#
16)	Endosulfa...	8.102	8.944	2453837	2252750	0.820	0.823	
17)	4,4'-DDT	8.192	9.091	2953954	1650807	1.099	0.647	#
18)	Endrin Al...	8.385	9.194	2862412	1048493	1.087	0.397	#
19)	Endosulfa...	8.674	9.395	31929298	4613051	11.156	1.752	#
20)	Methoxychlor	8.545	9.547	9073680	2196299	7.520	1.695	#
21)	Endrin Ke...	8.876	9.807	4409107	1757537	1.276	0.400	#
23)	Hexachlor...	3.182	3.823f	656359	747997	0.168	0.154	
24)	Hexachlor...	5.762	6.557	2398540	754338	0.714	0.208	#
25)	Oxychlordane	0.000	8.005	0	8727983	N.D.	2.729	#
26)	2,4'-DDE	7.295f	8.226	3331407	982159	1.441	0.432	#
27)	trans-Non...	7.511	8.297	4200204	2420527	1.146	0.671	#
28)	2,4'-DDD	7.690	8.561f	3086682	13385182	1.594	6.992	#
29)	2,4'-DDT	7.849f	8.796	2897330	1117817	1.211	0.476	#
30)	cis-Nonac...	7.936f	8.836	10526883	1583414	2.587	0.397	#
31)	Mirex	8.674f	9.773	31929298	3568528	12.997	1.471	#
32)	Chlordane...	7.441	8.226	2807350	982159	7.010	2.261	#
33)	Chlordane...	7.511	8.343	4200204	2228749	8.637	6.130	#
34)	Chlordane...	8.049	8.984	3455806	1506884	26.543	12.689	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.511	8.561f	4200204	13385182	256.589	454.213	#
37)	Toxaphene...	7.823	8.944	2703550	2252750	86.058	56.054	#
38)	Toxaphene...	8.131	8.984	2393399	1506884	30.850	23.292	
39)	Toxaphene...	8.385	9.048	2862412	1330795	37.173	9.648	#
40)	Toxaphene...	8.586	9.231	4047723	1207705	74.678	21.066	#
41)	Toxaphene...	8.674	9.604	31929298	2253386	419.824	34.114	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

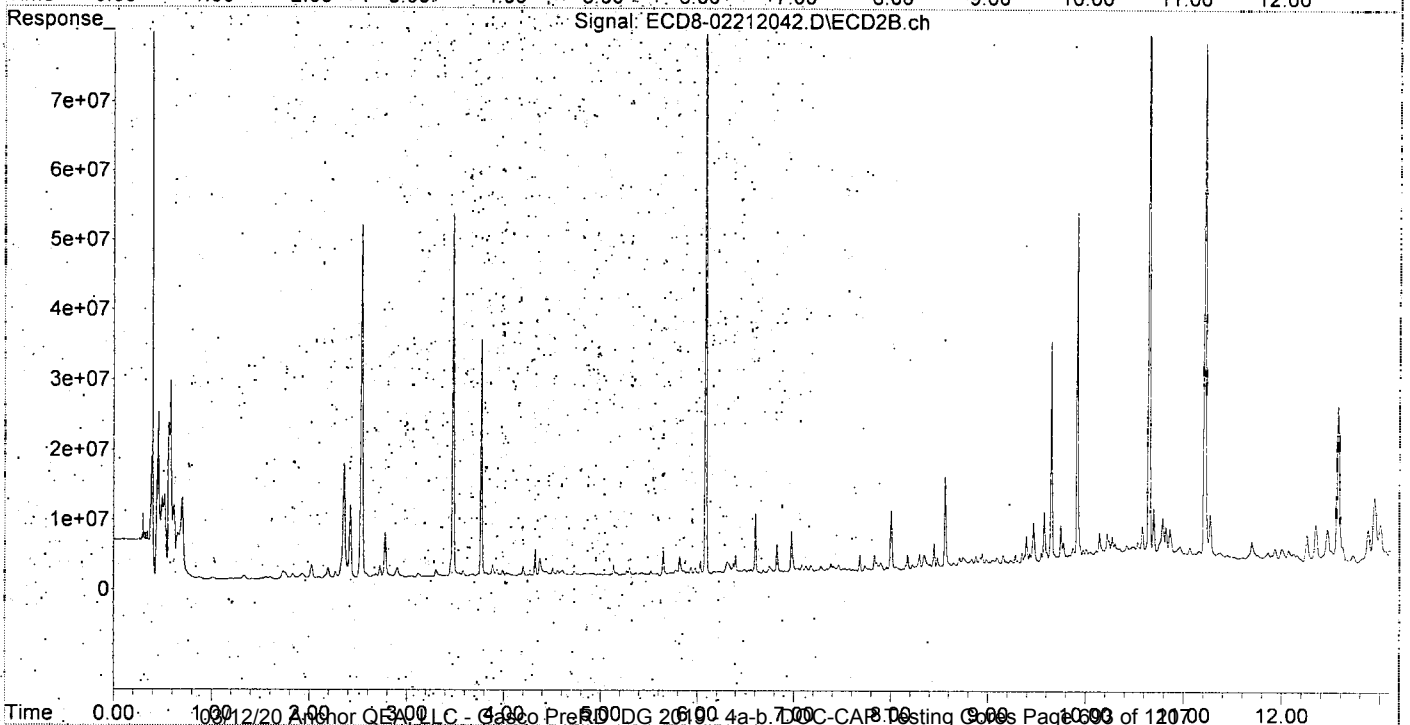
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2020 23:44
Operator : MJB
Sample : A0A1011-01RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2020 00:22
Operator : MJB
Sample : 0B21033-CCV5
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/25/20

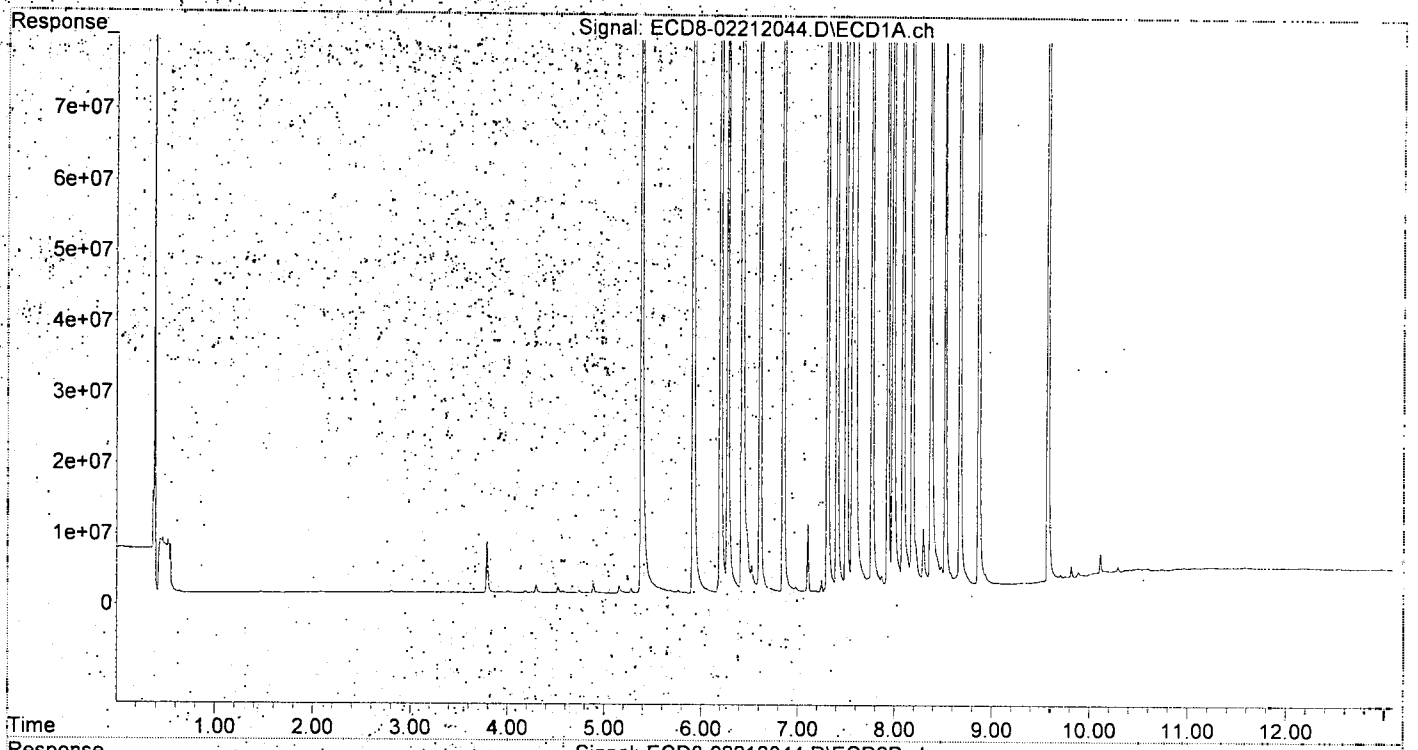
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.384	6.087	305.5E6	355.6E6	87.369	103.099	
22)	S	DCBP (S)	9.577	10.648	268.2E6	239.0E6	100.010	105.898	
		Target Compounds							
2)		a-BHC	5.919	6.686	463.5E6	535.9E6	98.112	104.503	
3)		g-BHC	6.200	7.003	421.2E6	452.4E6	101.178	100.172	
4)		b-BHC	6.276	7.066	161.2E6	182.6E6	92.546	105.157	
5)		Heptachlor	6.611	7.378	422.8E6	434.2E6	102.871	103.126	
6)		d-BHC	6.424	7.321	354.3E6	424.2E6	92.167	100.156	
7)		Aldrin	6.851	7.644	406.5E6	425.4E6	100.599	99.125	
8)		Heptachlo...	7.309	8.079	368.8E6	390.7E6	99.878	108.841	
9)		trans-Chl...	7.405	8.219	387.9E6	398.5E6	103.155	107.167	
10)		cis-Chlor...	7.501	8.326	358.7E6	381.7E6	97.684	108.347	
11)		Endosulfa...	7.596	8.378	348.7E6	364.3E6	100.526	110.220	
12)		4,4'-DDE	7.567	8.428	333.8E6	394.1E6	100.524	104.583	
13)		Dieldrin	7.768	8.578	392.1E6	418.0E6	102.810	103.776	
14)		Endrin	7.931	8.805	331.1E6	328.4E6	101.462	98.546	
15)		4,4'-DDD	7.985	8.843	258.6E6	302.0E6	101.612	101.598	
16)		Endosulfa...	8.087	8.953	283.6E6	315.2E6	94.805	100.989	
17)		4,4'-DDT	8.183	9.070	291.7E6	304.7E6	108.508	99.066	
18)		Endrin Al...	8.374	9.189	247.8E6	284.0E6	94.121	107.417	
19)		Endosulfa...	8.674	9.379	278.5E6	298.1E6	97.287	100.724	
20)		Methoxychlor	8.523	9.546	121.3E6	148.7E6	100.526	109.392	
21)		Endrin Ke...	8.869	9.781	346.9E6	341.2E6	100.359	101.764	
23)		Hexachlor...	3.184	3.799	56243	27275	0.014	0.006	#
24)		Hexachlor...	5.764	6.566	474830	66621	0.141	BelowCal	#
25)		Oxychlordane	7.246	8.004	1688163	35483	0.370	0.011	#
26)		2,4'-DDE	7.309	8.219	368.8E6	398.5E6	159.523	175.314	
27)		trans-Non...	7.501	8.281	358.7E6	1082467	97.846	0.300	#
28)		2,4'-DDD	0.000	8.578	0	418.0E6	N.D.	218.357	#
29)		2,4'-DDT	7.869	8.805	1899462	328.4E6	0.794	124.636	#
30)		cis-Nonac...	7.985	8.843	258.6E6	302.0E6	63.547	75.786	
31)		Mirex	8.622	9.781	1111959	341.2E6	0.253	152.219	#
32)		Chlordane...	7.405	8.219	387.9E6	398.5E6	968.633	917.175	
33)		Chlordane...	7.501	8.326	358.7E6	381.7E6	737.613	1049.835	#
34)		Chlordane...	8.087f	9.028f	283.6E6	1512495	2178.350	12.736	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.501f	8.578	358.7E6	418.0E6	21914.162	14184.274	#
37)		Toxaphene...	0.000	8.953	0	315.2E6	N.D.	7844.011	#
38)		Toxaphene...	0.000	8.953f	0	315.2E6	N.D.	4872.643	#
39)		Toxaphene...	8.374	9.028	247.8E6	1512495	3672.712	11.535	#
40)		Toxaphene...	8.580	9.189f	1809742	284.0E6	33.389	4953.506	#
41)		Toxaphene...	8.674	9.629f	278.5E6	1083249	3661.234	16.399	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

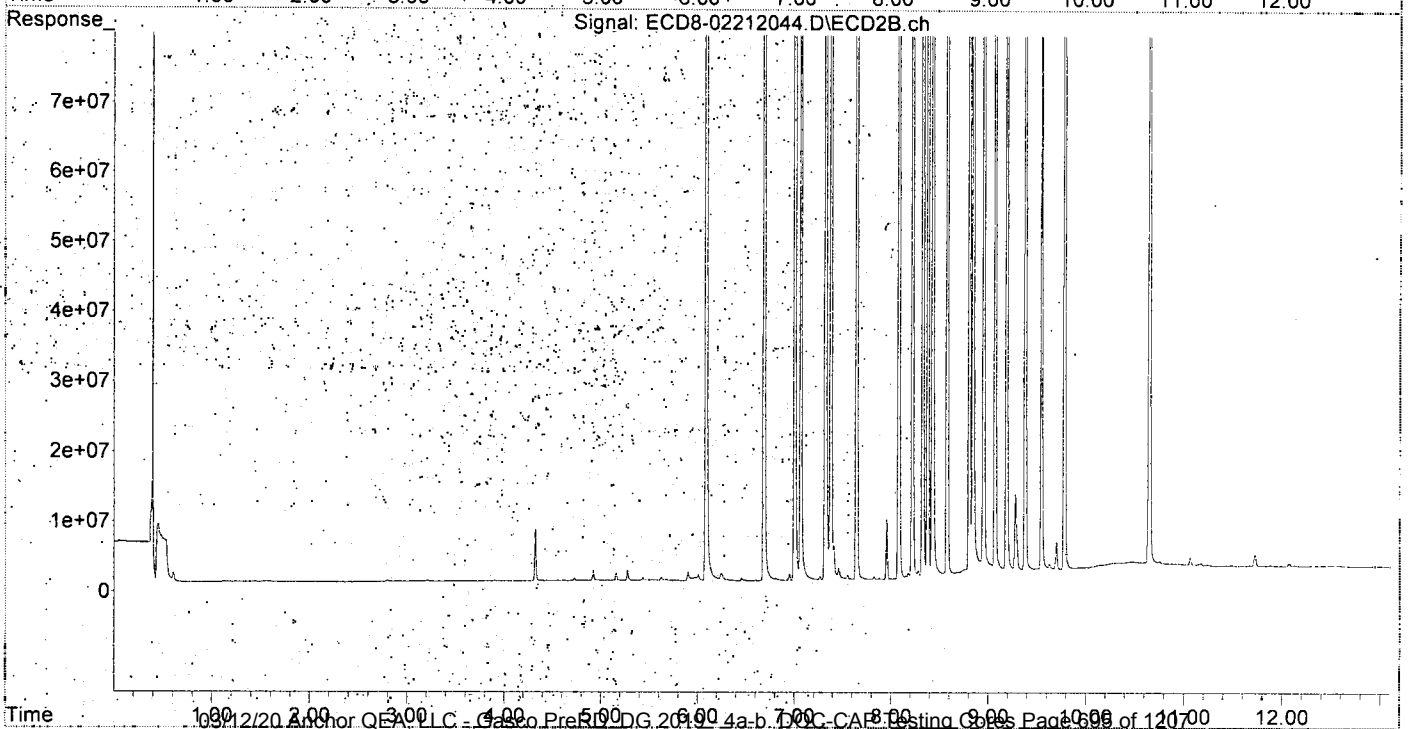
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212044.D
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 22 Feb 2020, 00:22
Operator : MJB
Sample : 0B21033-CCV5
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2020 00:39
Operator : MJB
Sample : 0B21033-CCV6
Misc : A19J409 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: Dual ECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/26/20

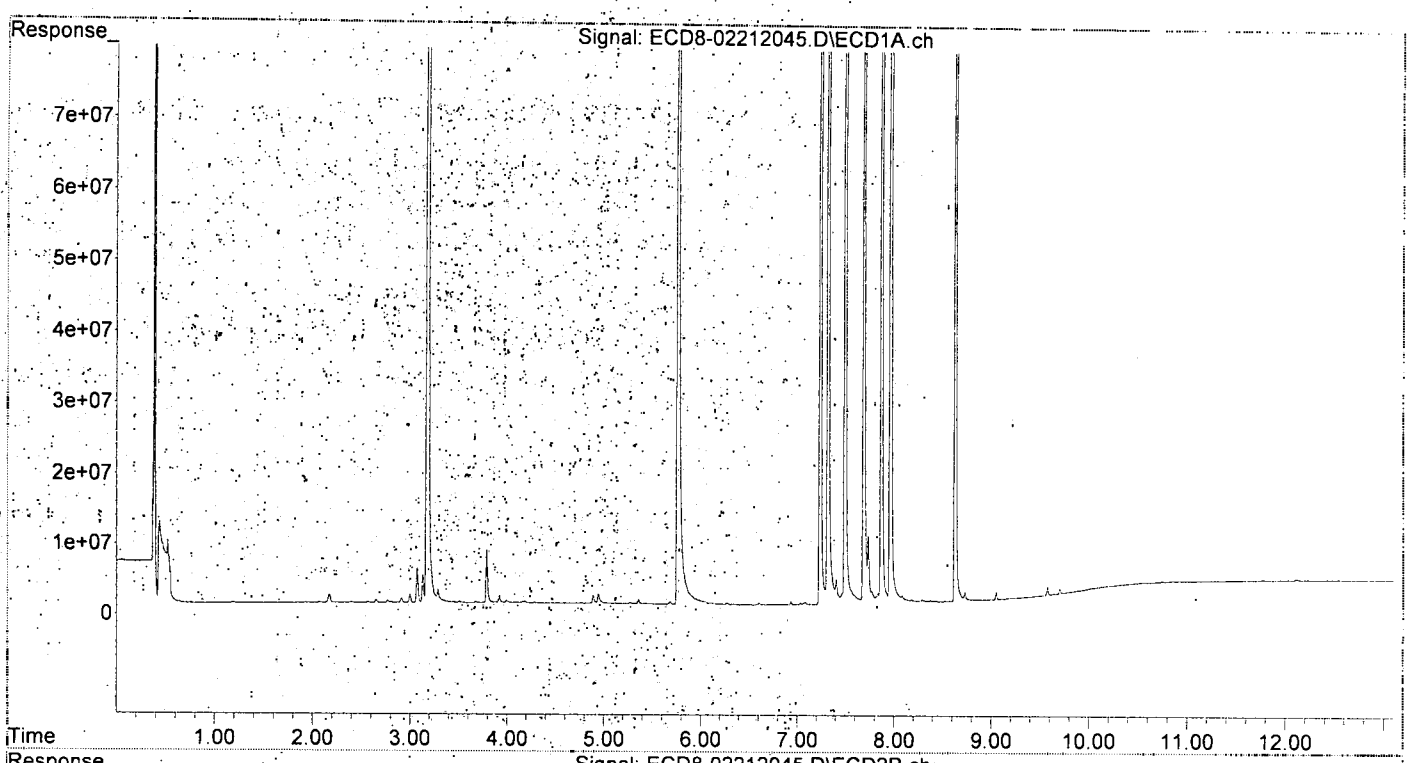
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.360f	6.085	640946	279116	0.183	0.081	#
22)	S DCBP (S)	9.579	10.649	1388214	1842627	0.209	0.405	#
	Target Compounds							
2)	a-BHC	5.949f	6.716f	828563	402510	0.175	0.170	
3)	g-BHC	6.203	7.013	175621	73525	0.042	0.061	#
4)	b-BHC	6.276	7.069	262626	154947	0.151	0.089	#
5)	Heptachlor	6.611	7.376	337773	280897	0.082	0.067	
6)	d-BHC	6.434	7.323	97438	78277	0.135	0.120	
7)	Aldrin	6.851	7.650	46303	284109	0.011	0.088	#
8)	Heptachlo...	7.318	8.077	221.8E6	862052	60.051	0.240	#
9)	trans-Chl...	7.405	8.208f	3565472	262.0E6	0.948	70.466	#
10)	cis-Chlor...	7.496	0.000	373.3E6	0	101.641	N.D.	#
11)	Endosulfa...	7.594	8.377	1210299	375130	0.349	0.114	#
12)	4,4'-DDE	7.594	8.425	1210299	176631	0.364	0.145	#
13)	Dieldrin	7.773	8.580	1676788	213.5E6	0.440	56.407	#
14)	Endrin	7.964f	8.805	413.3E6	259.1E6	126.647	79.834	#
15)	4,4'-DDD	7.964f	8.848	413.3E6	451.7E6	162.410	140.395	
16)	Endosulfa...	8.086	8.953	962917	345013	0.322	0.100	#
17)	4,4'-DDT	8.185	9.071	361734	249562	0.135	0.076	#
18)	Endrin Al...	8.377	9.189	177507	234793	0.067	0.089	#
19)	Endosulfa...	0.000	9.379	0	223171	N.D.	0.000	#
20)	Methoxychlor	8.524	9.548	20827	343905	0.017	BelowCal	#
21)	Endrin Ke...	8.871	9.776	116026	250.0E6	0.034	77.453	#
23)	Hexachlor...	3.180	3.794	412.8E6	530.3E6	105.908	109.518	
24)	Hexachlor...	5.765	6.553	320.6E6	373.7E6	95.369	108.894	
25)	Oxychlordane	7.238	8.008	330.1E6	350.6E6	105.675	109.634	
26)	2,4'-DDE	7.318	8.208	221.8E6	262.0E6	95.912	115.274	
27)	trans-Non...	7.496	8.282	373.3E6	389.2E6	101.809	107.819	
28)	2,4'-DDD	7.687	8.580	197.5E6	213.5E6	101.972	111.547	
29)	2,4'-DDT	7.870	8.805	240.6E6	259.1E6	100.555	101.883	
30)	cis-Nonac...	7.964	8.848	413.3E6	451.7E6	101.569	113.354	
31)	Mirex	8.631	9.776	254.9E6	250.0E6	106.439	113.666	
32)	Chlordane...	7.405	8.208f	3565472	262.0E6	8.903	603.070	#
33)	Chlordane...	7.496f	0.000	373.3E6	0	767.489	N.D.	#
34)	Chlordane...	8.086f	8.996	962917	501263	7.396	4.221	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.496f	8.580	373.3E6	213.5E6	22801.765	7246.021	#
37)	Toxaphene...	7.839	8.928	1485100	488624	47.273	12.158	#
38)	Toxaphene...	0.000	8.996f	0	501263	N.D.	7.748	#
39)	Toxaphene...	8.377	9.071f	177507	249562	BelowCal	BelowCal	
40)	Toxaphene...	8.593	9.222	7096	143851	0.131	2.509	#
41)	Toxaphene...	8.631f	9.581	254.9E6	367148	3352.176	5.558	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

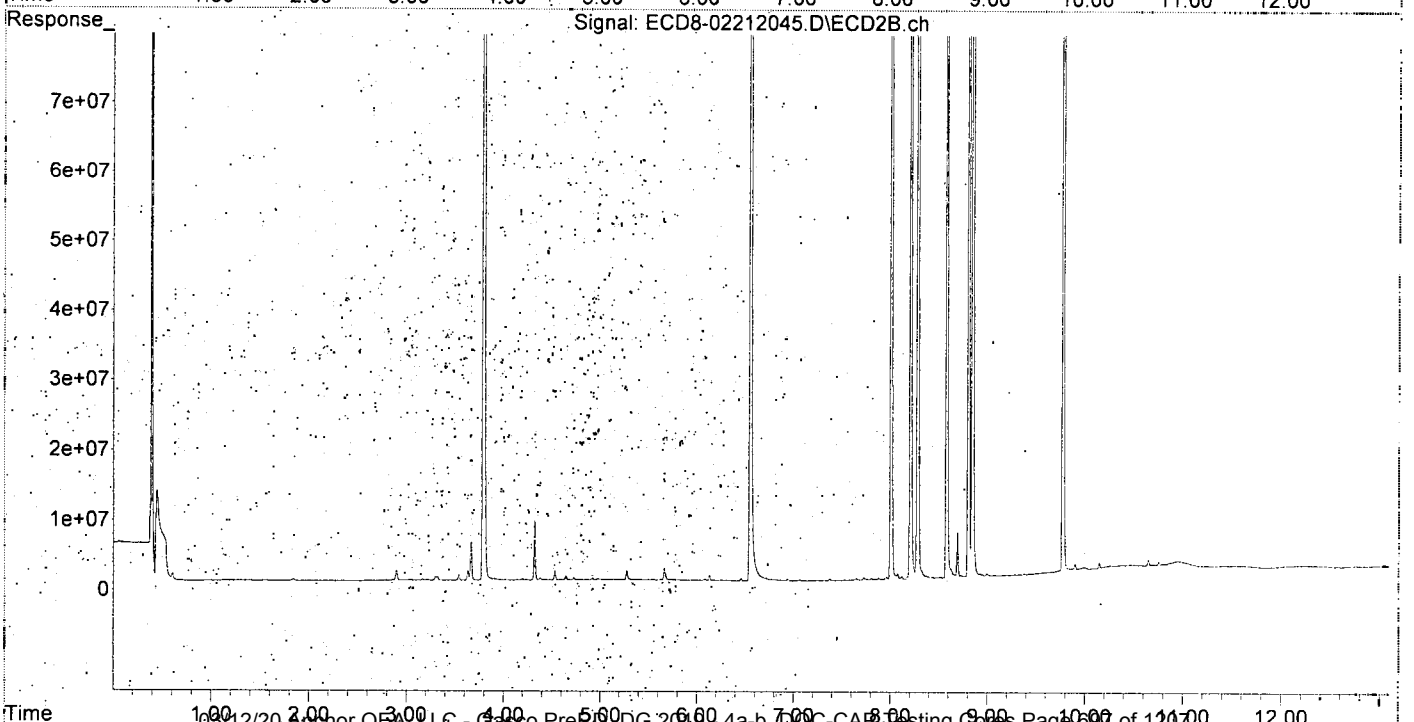
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2020 00:39
Operator : MJB
Sample : 0B21033-CCV6
Misc : A19J409, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:40:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2020 00:55
Operator : MJB
Sample : 0B21033-CCB4
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:41:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/25/20

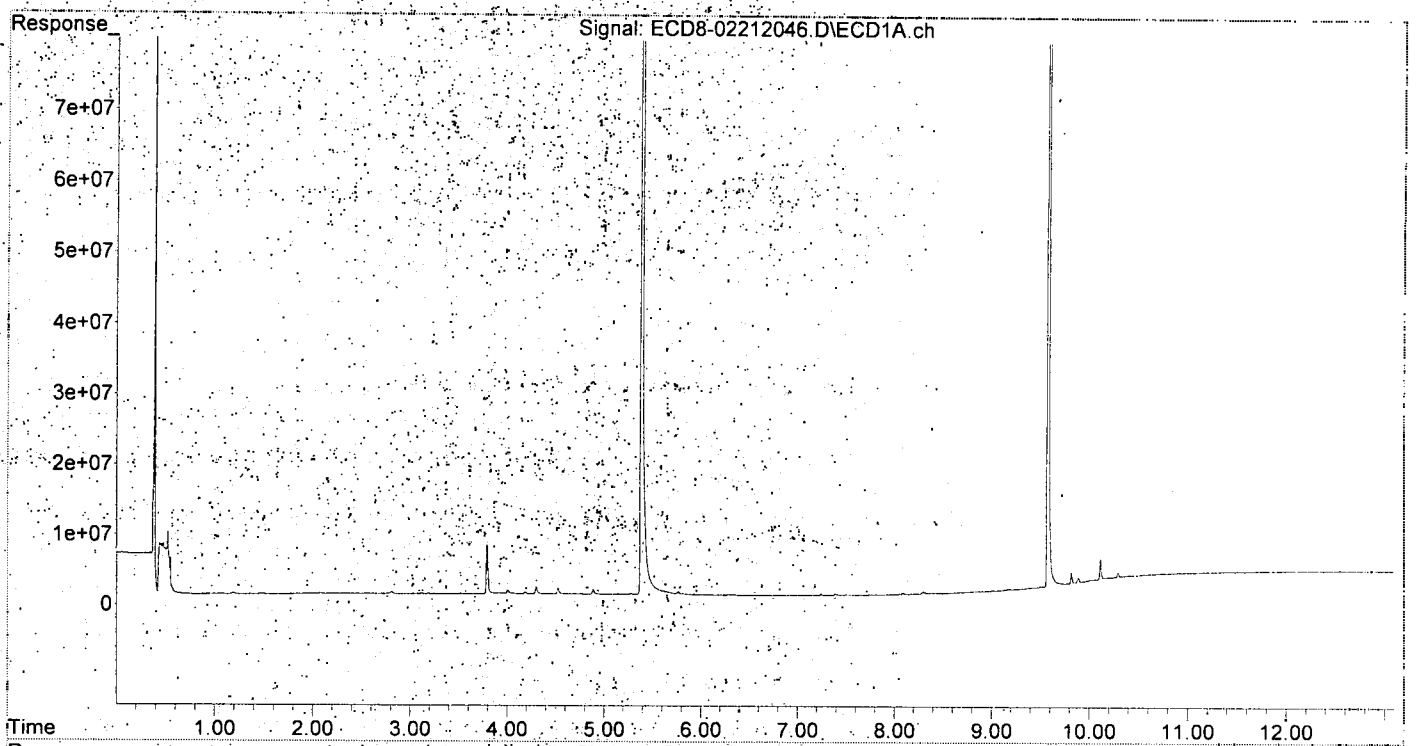
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.385	6.086	299.3E6	368.8E6	85.596	106.901	
22)	S DCBP (S)	9.579	10.650	260.2E6	230.6E6	97.151	102.519	
	Target Compounds							
2)	a-BHC	5.940	0.000	56567	0	0.012	N.D.	#
3)	g-BHC	0.000	7.023	0	11504	N.D.	0.045	#
4)	b-BHC	6.284	7.075	140574	15139	0.081	0.009	#
5)	Heptachlor	6.660f	7.389	33000	11386	0.008	0.003	#
6)	d-BHC	6.438	7.324	20856	40446	0.113	0.109	
7)	Aldrin	0.000	7.651	0	367846	N.D.	0.110	#
8)	Heptachlo...	7.320	8.086	18198	23996	0.005	0.007	#
9)	trans-Chl...	7.391f	8.220	197190	80199	0.052	0.022	#
10)	cis-Chlor...	7.498	8.343	80221	6487	0.022	0.002	#
11)	Endosulfa...	7.568f	8.383	12282	23659	0.004	0.007	#
12)	4,4'-DDE	7.568	8.434	12282	21316	0.004	0.095	#
13)	Dieldrin	7.782	8.581	17227	61505	0.005	0.050	#
14)	Endrin	7.940	8.821	9459	161486	0.003	0.049	#
15)	4,4'-DDD	7.993	8.843	19599	172592	0.008	0.117	#
16)	Endosulfa...	8.088	8.965	259846	122148	0.087	0.016	#
17)	4,4'-DDT	8.193	9.073	20699	202504	0.008	0.057	#
18)	Endrin Al...	8.377	9.192	166694	319869	0.063	0.121	#
19)	Endosulfa...	8.677	9.394	85024	408452	0.030	0.074	#
20)	Methoxychlor	8.529	9.547	57559	440688	0.048	0.042	
21)	Endrin Ke...	8.873	9.801	66210	820308	0.019	0.068	#
23)	Hexachlor...	3.188	3.808	50889	85988	0.013	0.018	#
24)	Hexachlor...	5.765	6.567	464442	97849	0.138	BelowCal	#
25)	Oxychlordane	7.245	8.020	220759	22209	BelowCal	0.007	
26)	2,4'-DDE	7.320	8.220	18198	80199	0.008	0.035	#
27)	trans-Non...	7.498	8.282	80221	31695	0.022	0.009	#
28)	2,4'-DDD	7.691	8.581	18600	61505	0.010	0.032	#
29)	2,4'-DDT	7.871	8.810	8028	171875	0.003	0.032	#
30)	cis-Nonac...	7.962	8.843	37316	172592	0.009	0.043	#
31)	Mirex	8.635	9.780	50703	865764	8199.108	0.166	#
32)	Chlordane...	7.446f	8.220	16945	80199	0.042	0.185	#
33)	Chlordane...	7.498	8.343	80221	6487	0.165	0.018	#
34)	Chlordane...	8.059	8.996	46114	544483	0.354	4.585	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.546	8.597	11241	42927	0.687	1.457	#
37)	Toxaphene...	7.829	8.929	12012	301140	0.382	7.493	#
38)	Toxaphene...	0.000	8.965	0	122148	N.D.	1.888	#
39)	Toxaphene...	8.377	9.040	166694	199748	BelowCal	BelowCal	
40)	Toxaphene...	8.595	9.240f	40132	299004	0.740	5.216	#
41)	Toxaphene...	8.677	9.604	85024	538505	1.118	8.153	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

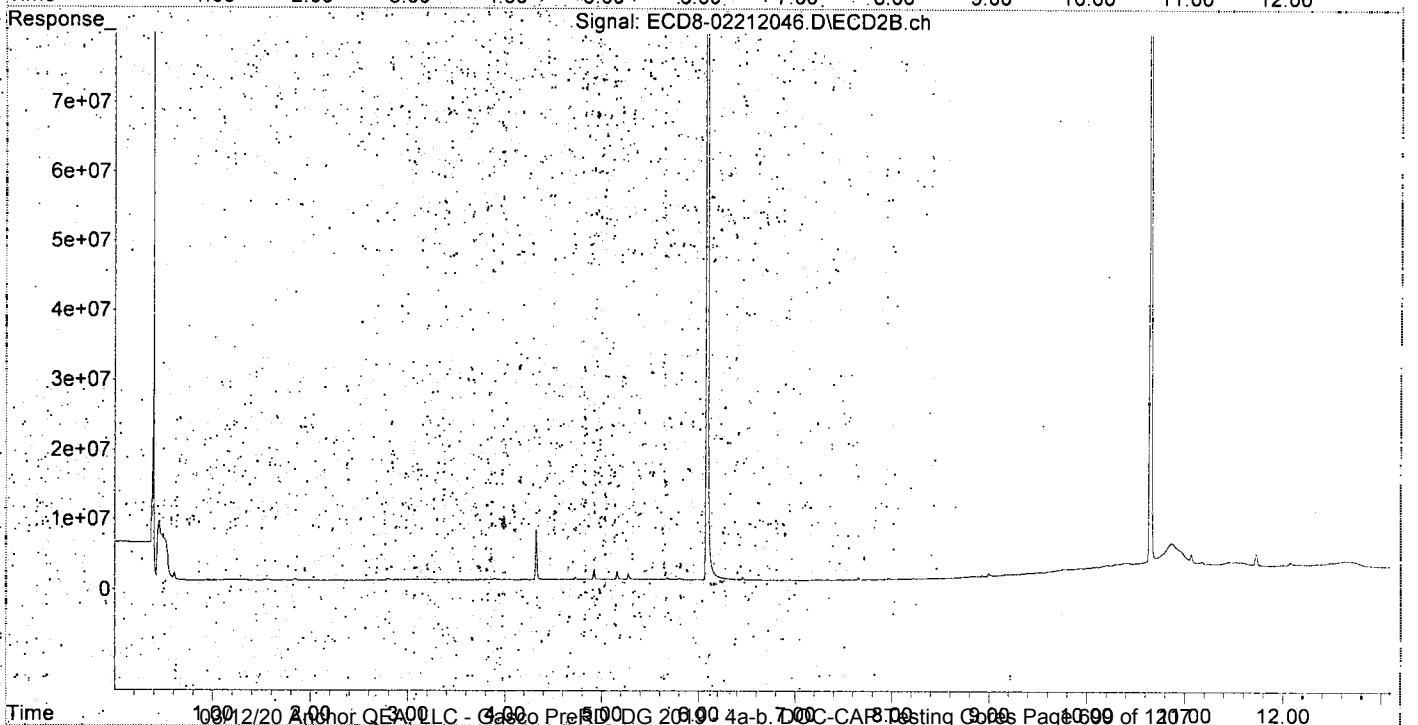
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B21033\
Data File : ECD8-02212046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2020 00:55
Operator : MJB
Sample : 0B21033-CCB4
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 24 16:41:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT5.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Sequence 0B17041 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B17041** Instrument: **DUALECD8**

Date: **02/17/20 10:48** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B17041-BKD1	Sediment	QC	QC				A20A019
2	0B17041-BKD2	Sediment	QC	QC				A20A019
3	0B17041-BKD3	Sediment	QC	QC				A20A019
4	0B17041-CCV1	Sediment	QC	QC				A19K133
5	0B17041-CCV2	Sediment	QC	QC				A19J408
6	0B17041-CCB1	Sediment	QC	QC				A20A395
7	0020205-BLK1	Sediment	QC	QC		0020205		
8	0020205-BS1	Sediment	QC	QC		0020205		
9	A0A0991-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
10	A0A0996-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
11	A0A0996-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
12	A0A1010-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
13	A0B0130-10RE1	Sediment	8081B Pesticides		02/18/20	0020382		
14	A0B0252-01RE1	Sediment	8081B Pesticides		02/21/20	0020382		
15	A0B0268-01RE1	Sediment	8081B Pesticides		02/21/20	0020382		
16	A0B0268-02RE1	Sediment	8081B Pesticides		02/21/20	0020382		
17	0B17041-CCV3	Sediment	QC	QC				A19K134
18	0B17041-CCV4	Sediment	QC	QC				A19J409
19	0B17041-CCB2	Sediment	QC	QC				A20A395
20	A0B0130-06RE1	Sediment	8081B Pesticides		02/18/20	0020382		
21	A0B0130-04RE1	Sediment	8081B Pesticides		02/18/20	0020382		
22	0B17041-IBL1	Sediment	QC	QC				
23	A0B0130-08RE1	Sediment	8081B Pesticides		02/18/20	0020382		
24	0B17041-IBL2	Sediment	QC	QC				
25	A0A0991-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
26	0B17041-IBL3	Sediment	QC	QC				
27	A0A0991-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
28	0B17041-IBL4	Sediment	QC	QC				
29	A0A0991-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
30	0B17041-IBL5	Sediment	QC	QC				
31	A0A1002-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
32	0B17041-IBL6	Sediment	QC	QC				
33	A0A1002-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
34	0B17041-IBL7	Sediment	QC	QC				
35	0B17041-CCV5	Sediment	QC	QC				A19K133
36	0B17041-CCV6	Sediment	QC	QC				A19J408
37	0B17041-CCB3	Sediment	QC	QC				A20A395
38	0B17041-IBL8	Sediment	QC	QC				

Data Entered By: AMS 2/19/20

Comments:

Data Reviewed By: MVJ 2/20/20

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0B17041**	Instrument:	**DUALECD8**
Date:	**02/17/20 10:48**	Calibration:	**A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B17041-BKD1	Sediment	QC	QC				A20A019
2	0B17041-BKD2	Sediment	QC	QC				A20A019
3	0B17041-BKD3	Sediment	QC	QC				A20A019
4	0B17041-CCV1	Sediment	QC	QC				A19K133
5	0B17041-CCV2	Sediment	QC	QC				A19J408
6	0B17041-CCB1	Sediment	QC	QC				A20A395
7	0020205-BLK1	Sediment	QC	QC		0020205		
8	0020205-BS1	Sediment	QC	QC		0020205		
9	A0A0991-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
10	A0A0996-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
11	A0A0996-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
12	A0A1010-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
13	A0B0130-10RE1	Sediment	8081B Pesticides		02/18/20	0020382		
14	A0B0252-01RE1	Sediment	8081B Pesticides		02/21/20	0020382		
15	A0B0268-01RE1	Sediment	8081B Pesticides		02/21/20	0020382		
16	A0B0268-02RE1	Sediment	8081B Pesticides		02/21/20	0020382		
17	0B17041-CCV3	Sediment	QC	QC				A19K134
18	0B17041-CCV4	Sediment	QC	QC				A19J409
19	0B17041-CCB2	Sediment	QC	QC				A20A395

Comments: Partial

Data Entered By: 2/18/20

Data Reviewed By: 2/19/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 11:57
Operator : MJB
Sample : 0B17041-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 12:12:21 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

2/18/20

Failed

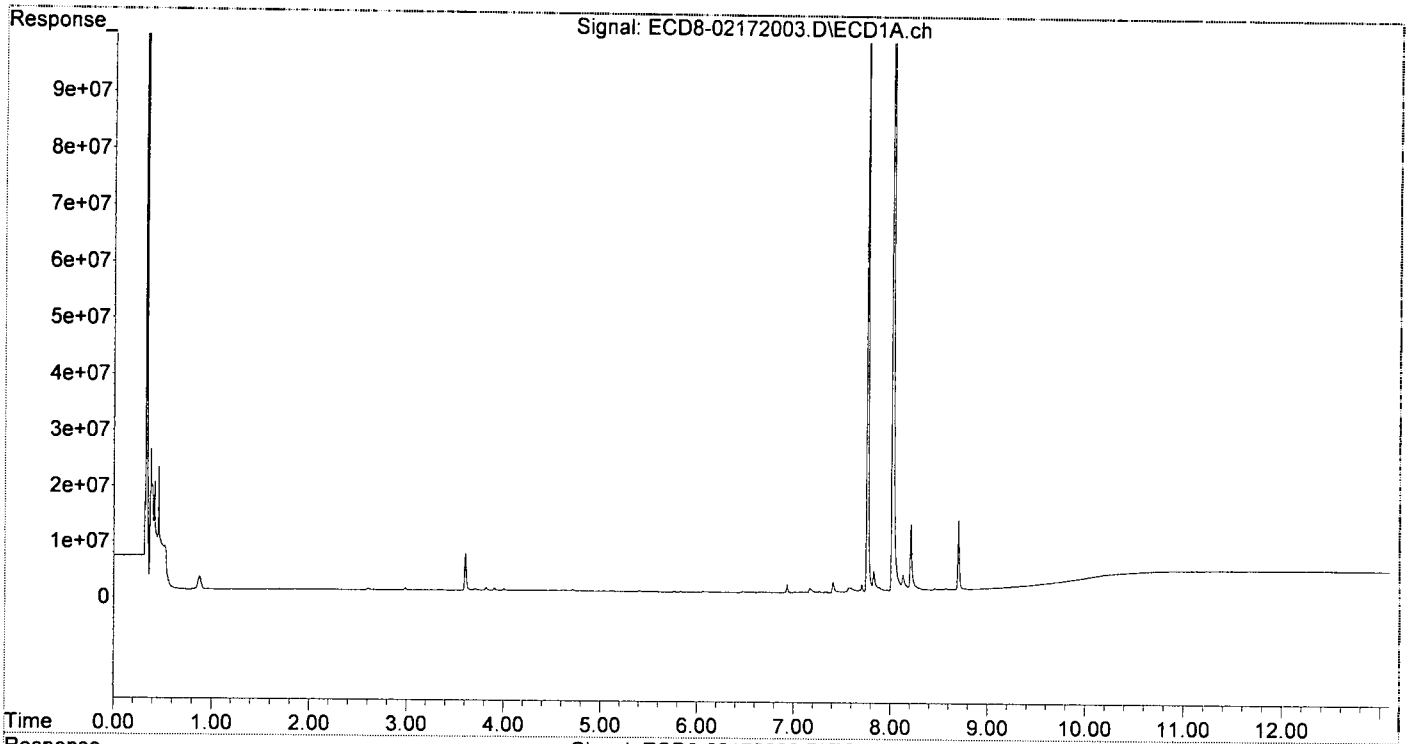
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.406	24195959	NoCal	ng/mL
2)	Endrin	7.759	1288861439	NoCal	ng/mL
3)	4,4'-DDD	7.825	66394117	NoCal	ng/mL
4)	4,4'-DDT	8.018	2539825870	NoCal	ng/mL
5)	Endrin Aldehyde	8.207	185755272	NoCal	ng/mL
6)	Endrin Ketone	8.698	140569092	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.257	46551198	NoCal	ng/mL
9)	Endrin [2C]	8.623	1173166451	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.671	81579716	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.009	162955364	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.896	2634974042	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.598	143714118	NoCal	ng/mL

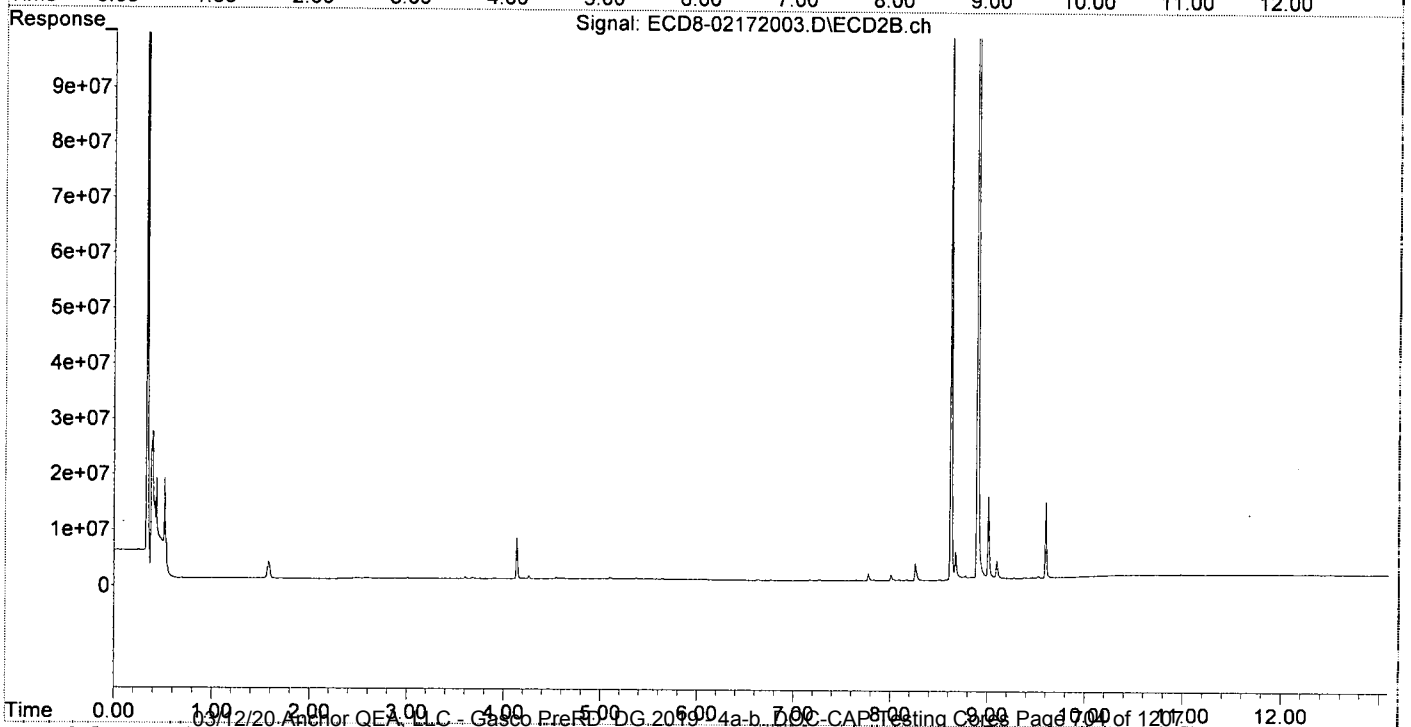
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 11:57
Operator : MJB
Sample : 0B17041-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 12:12:21 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Pesticide Breakdown Check (Validated 8/8/2013)

2/18/20

Sequence: 0B17041 BKD1
Data File: ECD8-02172003.D

First Column Area Counts		Percent Breakdown	
DDE	24195959		
DDD	66394117		
DDT	2539825870	**3.44**	**PASS**
Endrin	1288861439	**20.20**	**FAIL**
Endrin Aldehyde	185755272		
Endrin Ketone	140569092		

Second Column Area Counts		Percent Breakdown	
DDE	46551198		
DDD	81579716		
DDT	2634974042	**4.64**	**PASS**
Endrin	1173166451	**20.72**	**FAIL**
Endrin Aldehyde	162955364		
Endrin Ketone	143714118		

Breakdown must be less than 15% to accept sample data.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 12:44
Operator : MJB
Sample : 0B17041-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 13:00:06 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

2/18/20
Failed

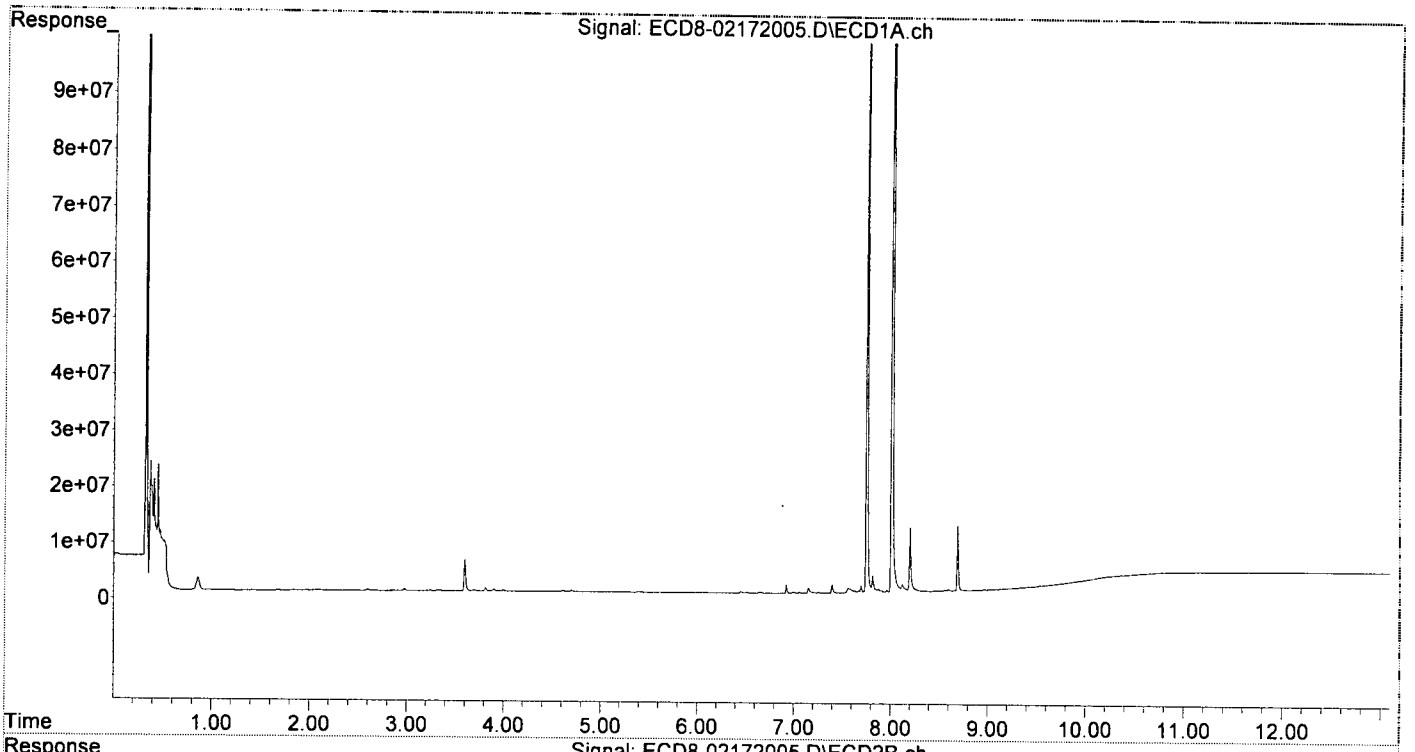
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.394	17716586	NoCal	ng/mL
2)	Endrin	7.750	1313890106	NoCal	ng/mL
3)	4,4'-DDD	7.812	48247918	NoCal	ng/mL
4)	4,4'-DDT	8.009	2385091048	NoCal	ng/mL
5)	Endrin Aldehyde	8.198	153168383	NoCal	ng/mL
6)	Endrin Ketone	8.689	117157897	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.246	32314824	NoCal	ng/mL
9)	Endrin [2C]	8.612	1245910891	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.660	56958850	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	8.998	139502871	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.885	2624814489	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.588	129113306	NoCal	ng/mL

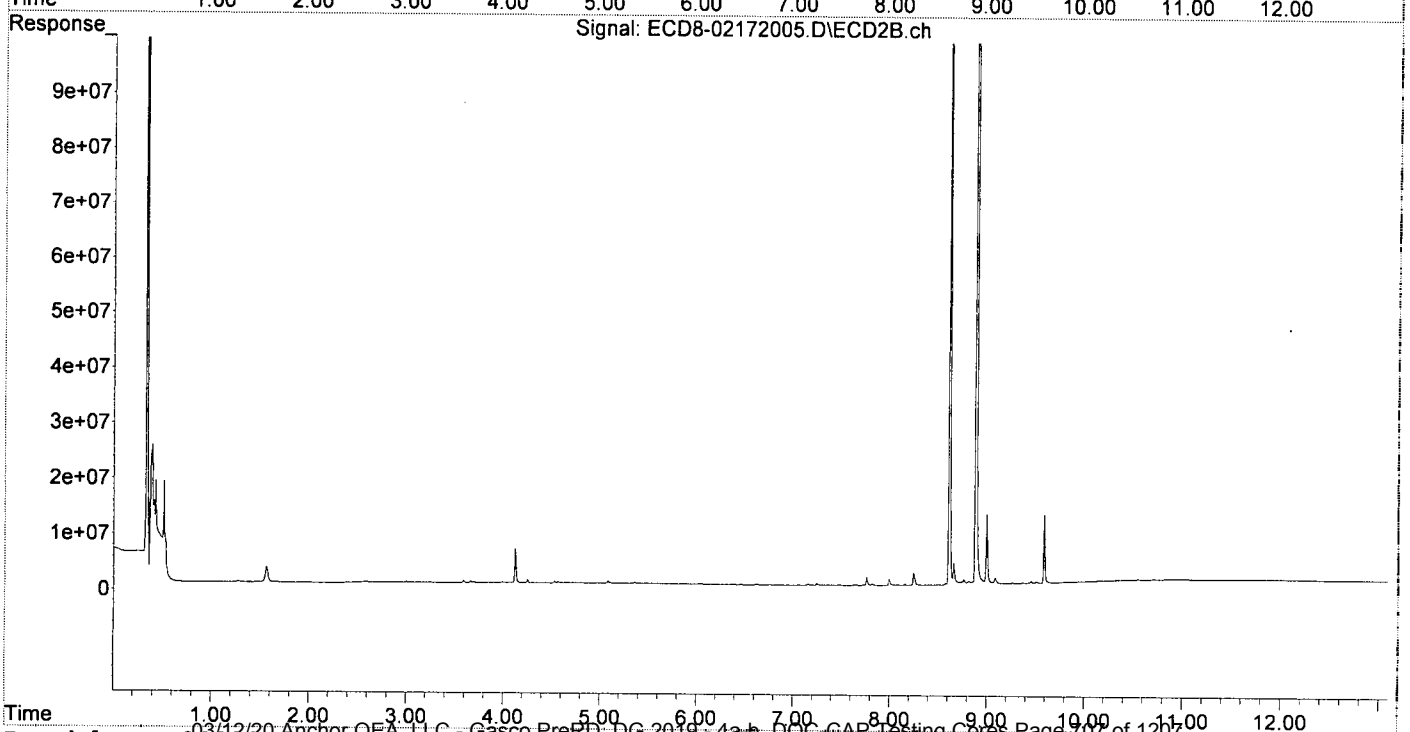
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 12:44
Operator : MJB
Sample : 0B17041-BKD2
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 13:00:06 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Pesticide Breakdown Check (Validated 8/8/2013)

2/18/20

Sequence: 0B17041 BKD2
Data File: ECD8-02172005.D

First Column Area Counts		Percent Breakdown	
DDE	17716586		
DDD	48247918		
DDT	2385091048	**2.69**	**PASS**
Endrin	1313890106	**17.06**	**FAIL**
Endrin Aldehyde	153168383		
Endrin Ketone	117157897		

Second Column Area Counts		Percent Breakdown	
DDE	32314824		
DDD	56958850		
DDT	2624814489	**3.29**	**PASS**
Endrin	1245910891	**17.74**	**FAIL**
Endrin Aldehyde	139502871		
Endrin Ketone	129113306		

Breakdown must be less than 15% to accept sample data.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 13:28
Operator : MJB
Sample : 0B17041-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

2/18/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 13:43:00 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

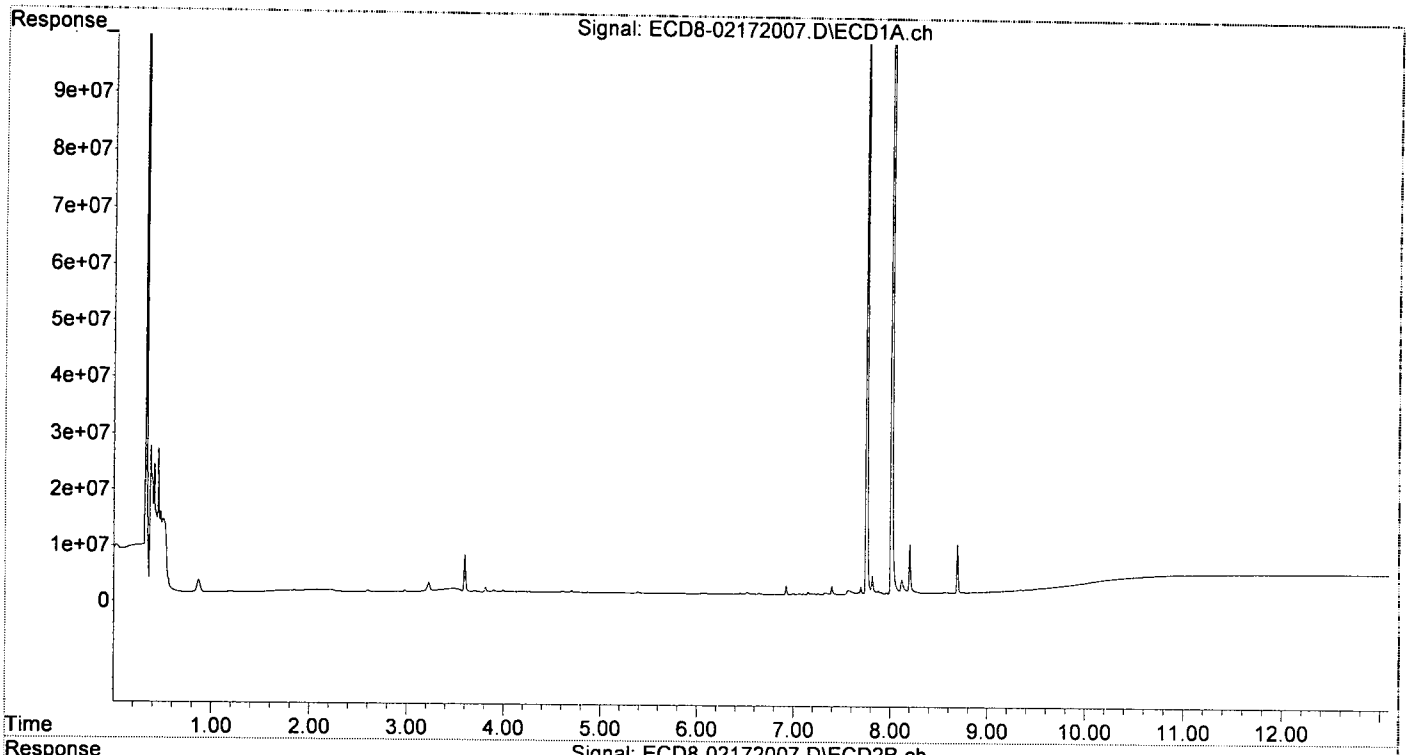
	Compound	R.T.	Response	Conc	Units
Target	Compounds	7.373	18274975		
1)	4,4'-DDE	~~7.394~~	~~15951040~~	NoCal	ng/mL
2)	Endrin	7.750	1514441310	NoCal	ng/mL
3)	4,4'-DDD	7.812	46996988	NoCal	ng/mL
4)	4,4'-DDT	8.008	2622461034	NoCal	ng/mL
5)	Endrin Aldehyde	8.197	122076673	NoCal	ng/mL
6)	Endrin Ketone	8.689	89011114	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.245	27377947	NoCal	ng/mL
9)	Endrin [2C]	8.612	1426826306	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.660	54529425	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	8.998	110502694	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.885	2848742180	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.588	96929616	NoCal	ng/mL

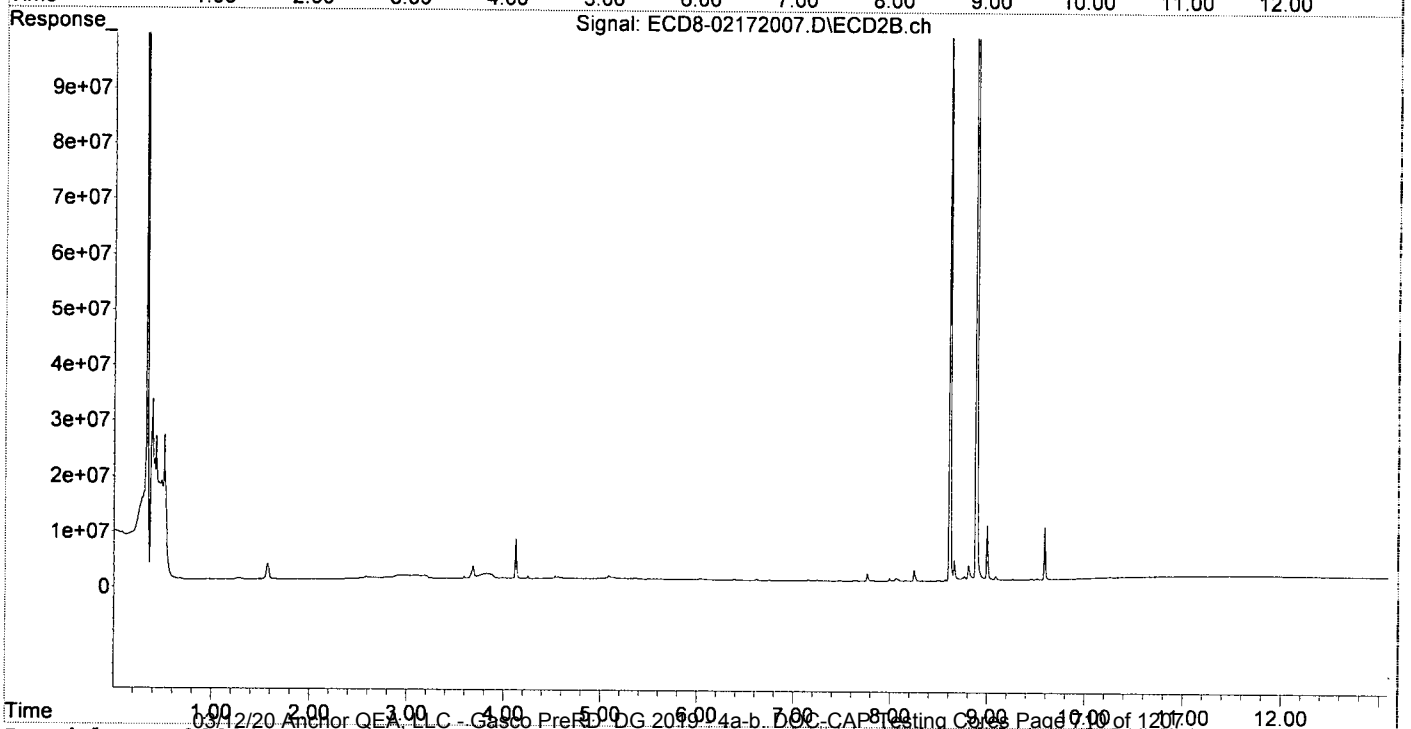
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 13:28
Operator : MJB
Sample : 0B17041-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 13:43:00 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

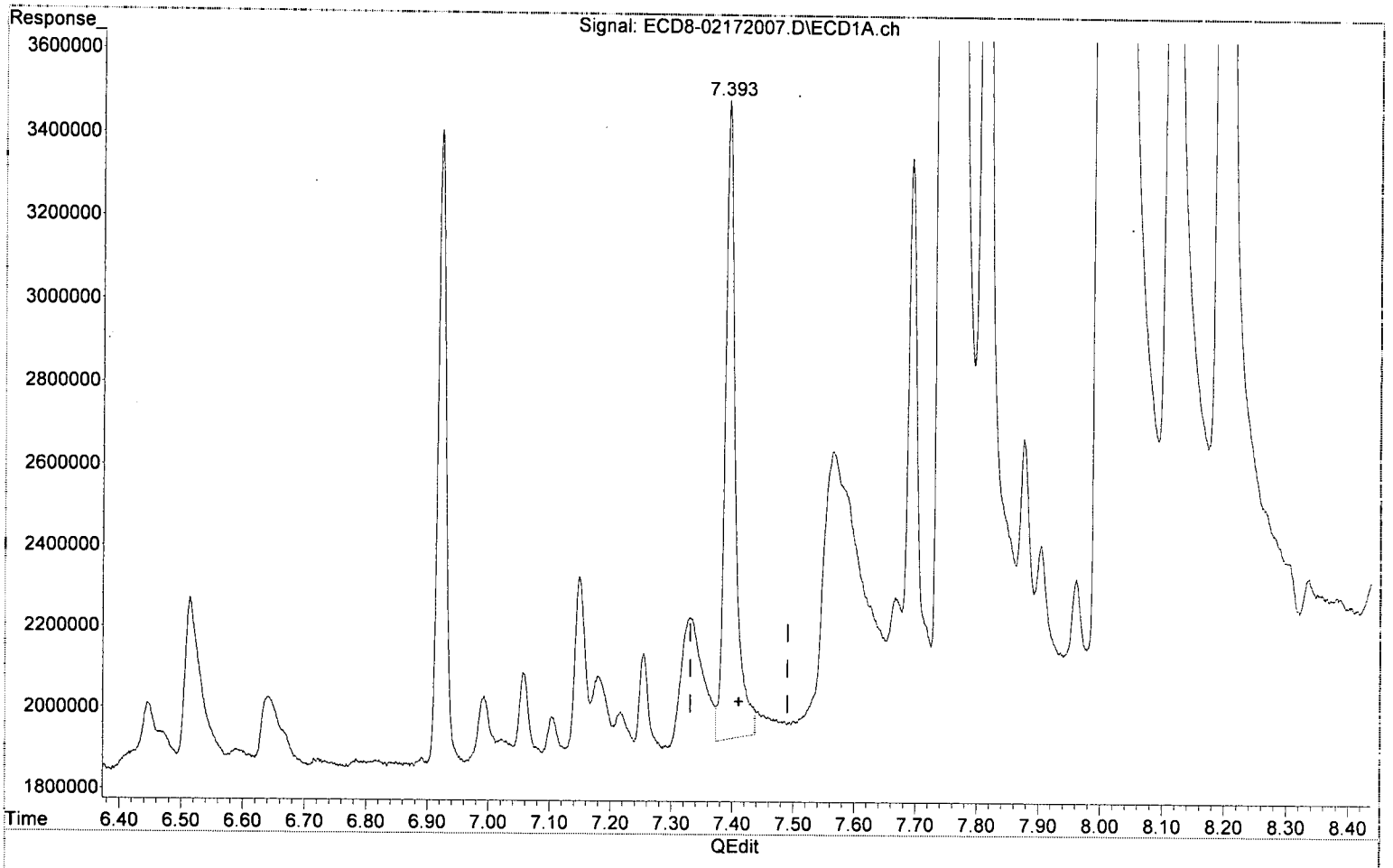




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 13:28
Operator : MJB
Sample : 0B17041-BKD3
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 17 13:43:00 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT3.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation



(1) 4,4'-DDE

7.393min 0.000 ng/mL (m) 2/18/20

response 18274975

(+) = Expected Retention Time

Pesticide Breakdown Check (Validated 8/8/2013)

2/18/20

Sequence: 0B17041 BKD3
Data File: ECD8-02172007.D

First Column Area Counts		Percent Breakdown	
DDE	18274975		
DDD	46996988		
DDT	2622461034	**2.43**	**PASS**
Endrin	1514441310	**12.23**	**PASS**
Endrin Aldehyde	122076673		
Endrin Ketone	89011114		

Second Column Area Counts		Percent Breakdown	
DDE	27377947		
DDD	54529425		
DDT	2848742180	**2.79**	**PASS**
Endrin	1426826306	**12.69**	**PASS**
Endrin Aldehyde	110502694		
Endrin Ketone	96929616		

Breakdown must be less than 15% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 13:45
Operator : MJB
Sample : 0B17041-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:11:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20

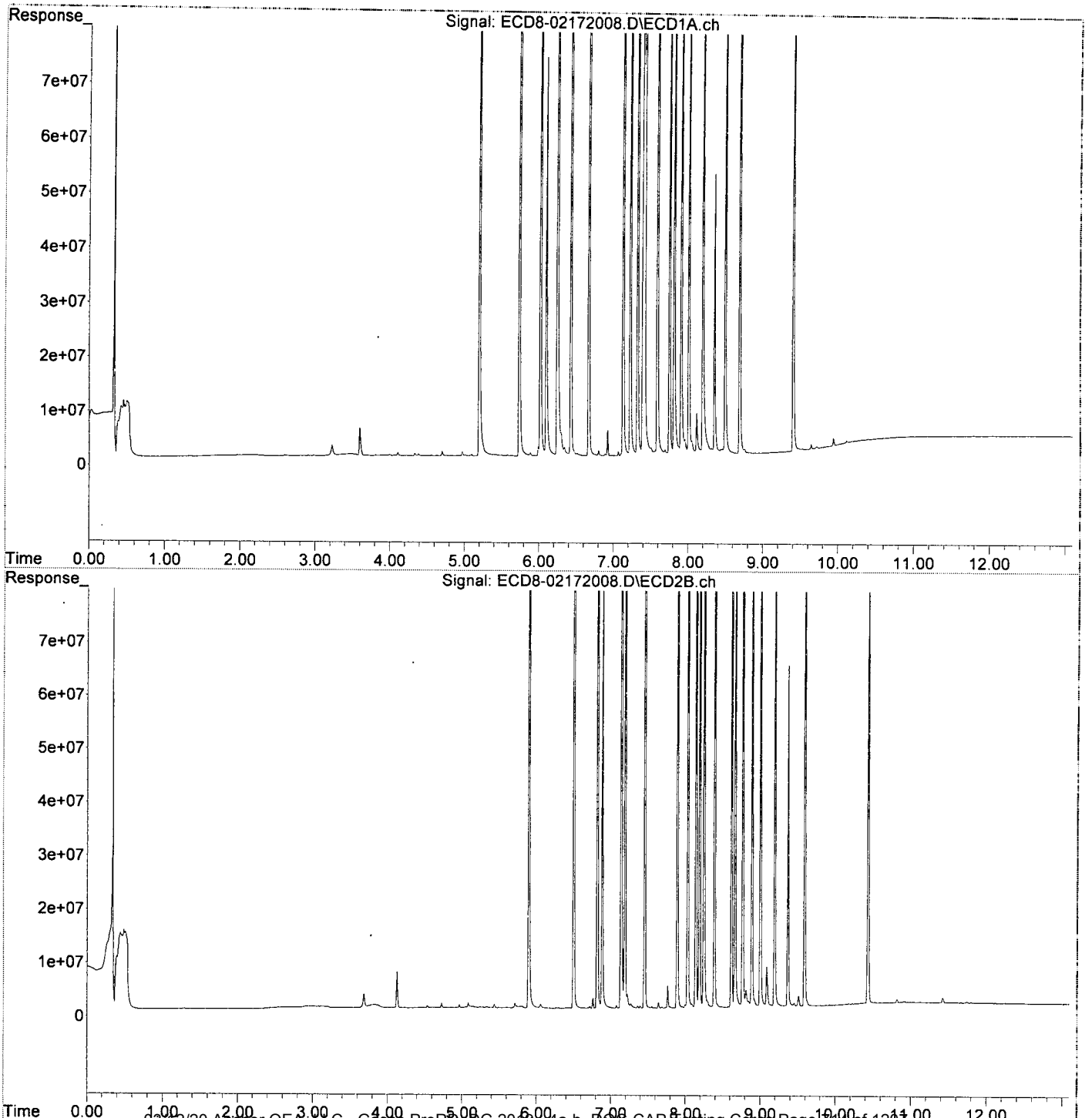
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.199	5.894	151.4E6	169.7E6	43.315	49.196	
22)	S	DCBP (S)	9.404	10.432	129.6E6	112.2E6	49.269	52.201	
		Target Compounds							
2)		a-BHC	5.736	6.497	228.0E6	246.0E6	48.259	52.410	
3)		g-BHC	6.018	6.815	196.4E6	206.3E6	47.178	49.111	
4)		b-BHC	6.096	6.880	73496696	80180939	42.200	46.186	
5)		Heptachlor	6.427	7.186	183.2E6	188.8E6	44.572	44.826	
6)		d-BHC	6.244	7.134	149.8E6	184.6E6	41.362	47.993	
7)		Aldrin	6.667	7.451	190.9E6	196.3E6	47.241	48.920	
8)		Heptachlo...	7.128	7.889	167.8E6	174.2E6	45.434	48.535	
9)		trans-Chl...	7.224	8.029	171.6E6	176.4E6	45.635	47.452	
10)		cis-Chlor...	7.322	8.136	173.1E6	167.8E6	47.135	47.635	
11)		Endosulfa...	7.415	8.186	163.6E6	159.7E6	47.172	48.334	
12)		4,4'-DDE	7.394	8.245	157.1E6	164.9E6	47.313	48.352	
13)		Dieldrin	7.588	8.386	172.4E6	178.3E6	45.208	47.666	
14)		Endrin	7.750	8.613	140.6E6	143.1E6	43.075	46.330	
15)		4,4'-DDD	7.813	8.661	114.5E6	138.6E6	44.981	52.117	
16)		Endosulfa...	7.908	8.762	128.0E6	138.2E6	42.780	48.179	
17)		4,4'-DDT	8.009	8.886	118.1E6	133.4E6	43.929	48.402	
18)		Endrin Al...	8.197	8.998	112.6E6	125.3E6	42.787	47.391	
19)		Endosulfa...	8.498	9.190	119.4E6	130.2E6	41.710	47.842	
20)		Methoxychlor	8.354	9.366	51795010	63686197	42.925	52.689	
21)		Endrin Ke...	8.690	9.589	152.2E6	151.3E6	44.028	49.030	
23)		Hexachlor...	2.979	3.599	69204	23353	0.018	0.005	#
24)		Hexachlor...	5.579	6.356	258705	33349	0.077	BelowCal	#
25)		Oxychlordane	7.066	7.816	860837	112631	0.101	0.035	#
26)		2,4'-DDE	7.128f	8.029	167.8E6	176.4E6	72.565	77.625	
27)		trans-Non...	7.322	8.089	173.1E6	758118	47.213	0.210	#
28)		2,4'-DDD	7.505	8.386	1495745	178.3E6	0.772	93.142	#
29)		2,4'-DDT	7.693	8.613	1072089	143.1E6	0.448	60.259	#
30)		cis-Nonac...	7.813f	8.661	114.5E6	138.6E6	28.131	34.784	
31)		Mirex	8.462	9.589	941423	151.3E6	0.182	70.213	#
32)		Chlordane...	7.224	8.029	171.6E6	176.4E6	428.517	406.107	
33)		Chlordane...	7.322	8.136	173.1E6	167.8E6	355.914	461.557	#
34)		Chlordane...	7.875	8.808	1599703	3205819	12.287	26.995	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.322	8.386	173.1E6	178.3E6	10574.043	6050.400	#
37)		Toxaphene...	7.588	0.000	172.4E6	0	5487.618	N.D.	#
38)		Toxaphene...	7.908	8.762	128.0E6	138.2E6	1850.254	2136.113	
39)		Toxaphene...	8.116f	8.808	7678970	3205819	111.317	29.091	#
40)		Toxaphene...	8.354f	8.998	51795010	125.3E6	955.586	2185.433	#
41)		Toxaphene...	8.441	9.366	947707	63686197	12.461	964.156	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 13:45
Operator : MJB
Sample : 0B17041-CCV1
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:11:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:02
Operator : MJB
Sample : 0B17041-CCV2
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

2/18/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:15:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

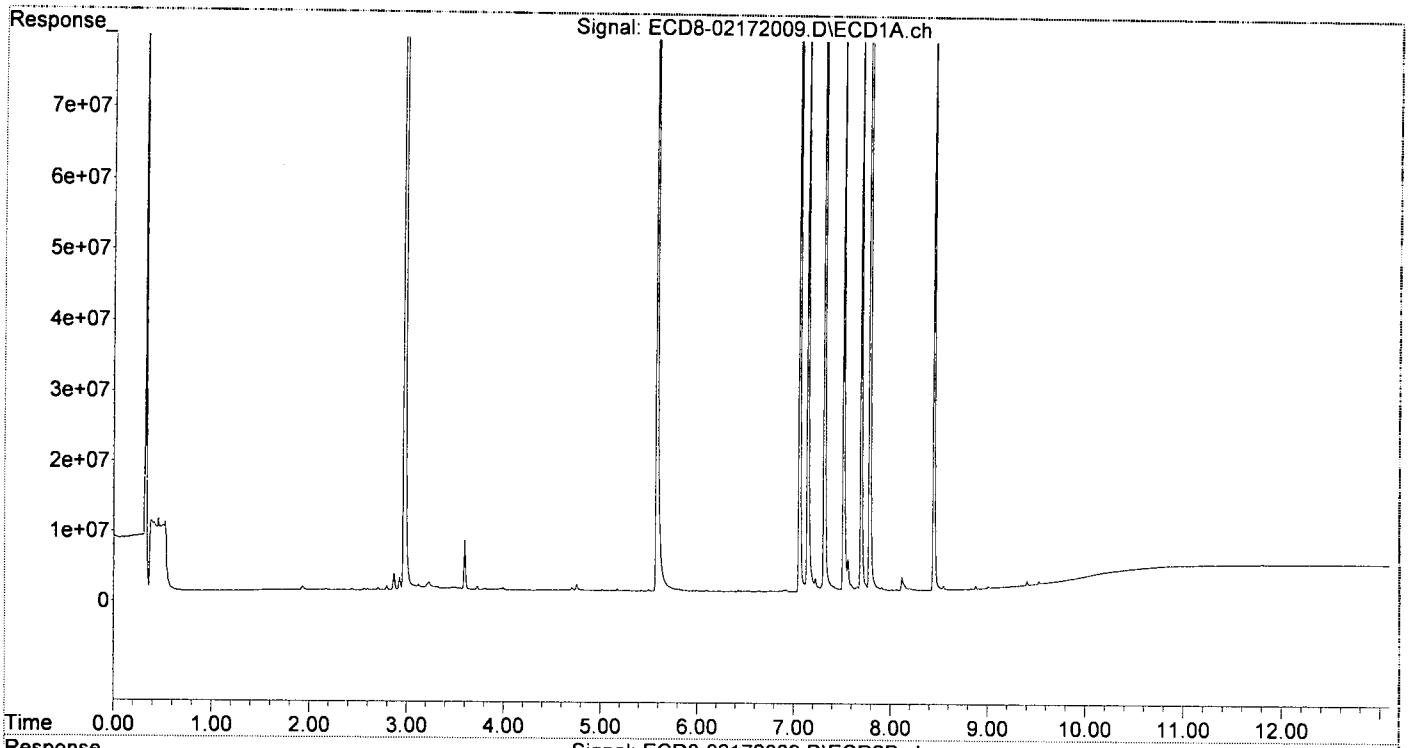
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.175f	5.904	340385	70172	0.097	0.020	#
22)	S	DCBP (S)	9.404	10.432	765958	557286	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	5.996f	6.846f	129487	35356	0.031	0.051	#
4)		b-BHC	6.098	6.885	166028	61912	0.095	0.036	#
5)		Heptachlor	6.429	7.186	214517	197112	0.052	0.047	
6)		d-BHC	6.253	7.139	36335	93535	0.117	0.124	
7)		Aldrin	6.665	7.444	29228	24404	0.007	0.019	#
8)		Heptachlo...	7.143	7.888	105.6E6	578008	28.609	0.161	#
9)		trans-Chl...	7.224	8.024	1914175	111.2E6	0.509	29.911	#
10)		cis-Chlor...	7.315	0.000	173.7E6	0	47.311	N.D.	#
11)		Endosulfa...	0.000	8.184	0	311302	N.D.	0.094	#
12)		4,4'-DDE	0.000	8.225	0	212767	N.D.	0.157	#
13)		Dieldrin	7.593	8.396	932290	96028178	0.244	26.450	#
14)		Endrin	7.784f	8.620	193.3E6	117.5E6	59.217	38.500	#
15)		4,4'-DDD	7.784f	8.657	193.3E6	202.0E6	75.939	72.438	
16)		Endosulfa...	7.909	8.743	502994	358189	0.168	0.105	#
17)		4,4'-DDT	8.013	8.885	131753	187127	0.049	0.051	
18)		Endrin Al...	8.210	9.000	280496	99869	0.107	0.038	#
19)		Endosulfa...	0.000	9.190	0	44109	N.D.	BelowCal	
20)		Methoxychlor	8.353	9.366	22376	21985	0.019	BelowCal	#
21)		Endrin Ke...	8.691	9.578	63543	112.4E6	0.018	37.118	#
23)		Hexachlor...	2.978	3.593	180.4E6	235.3E6	46.271	48.586	
24)		Hexachlor...	5.581	6.362	152.3E6	158.2E6	45.292	50.500	
25)		Oxychlordane	7.058	7.818	157.0E6	160.6E6	50.565	50.205	
26)		2,4'-DDE	7.143	8.024	105.6E6	111.2E6	45.694	48.930	
27)		trans-Non...	7.315	8.093	173.7E6	176.6E6	47.389	48.926	
28)		2,4'-DDD	7.513	8.396	87865579	96028178	45.366	50.164	
29)		2,4'-DDT	7.695	8.620	107.8E6	117.5E6	45.065	50.329	
30)		cis-Nonac...	7.784	8.657	193.3E6	202.0E6	47.491	50.685	
31)		Mirex	8.446	9.578	121.3E6	112.4E6	50.186	52.575	
32)		Chlordane...	7.224	8.024	1914175	111.2E6	4.780	255.985	#
33)		Chlordane...	7.315	0.000	173.7E6	0	357.245	N.D.	#
34)		Chlordane...	7.909f	8.811	502994	2438784	3.863	20.536	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.315	8.396f	173.7E6	96028178	10613.580	3258.621	#
37)		Toxaphene...	7.593	8.743f	932290	358189	29.676	8.913	#
38)		Toxaphene...	7.909	8.743	502994	358189	3.986	5.536	#
39)		Toxaphene...	8.119f	8.811	1946767	2438784	23.066	21.144	
40)		Toxaphene...	8.353f	9.000	22376	99869	0.413	1.742	#
41)		Toxaphene...	8.446	9.376	121.3E6	18862	1594.972	0.286	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

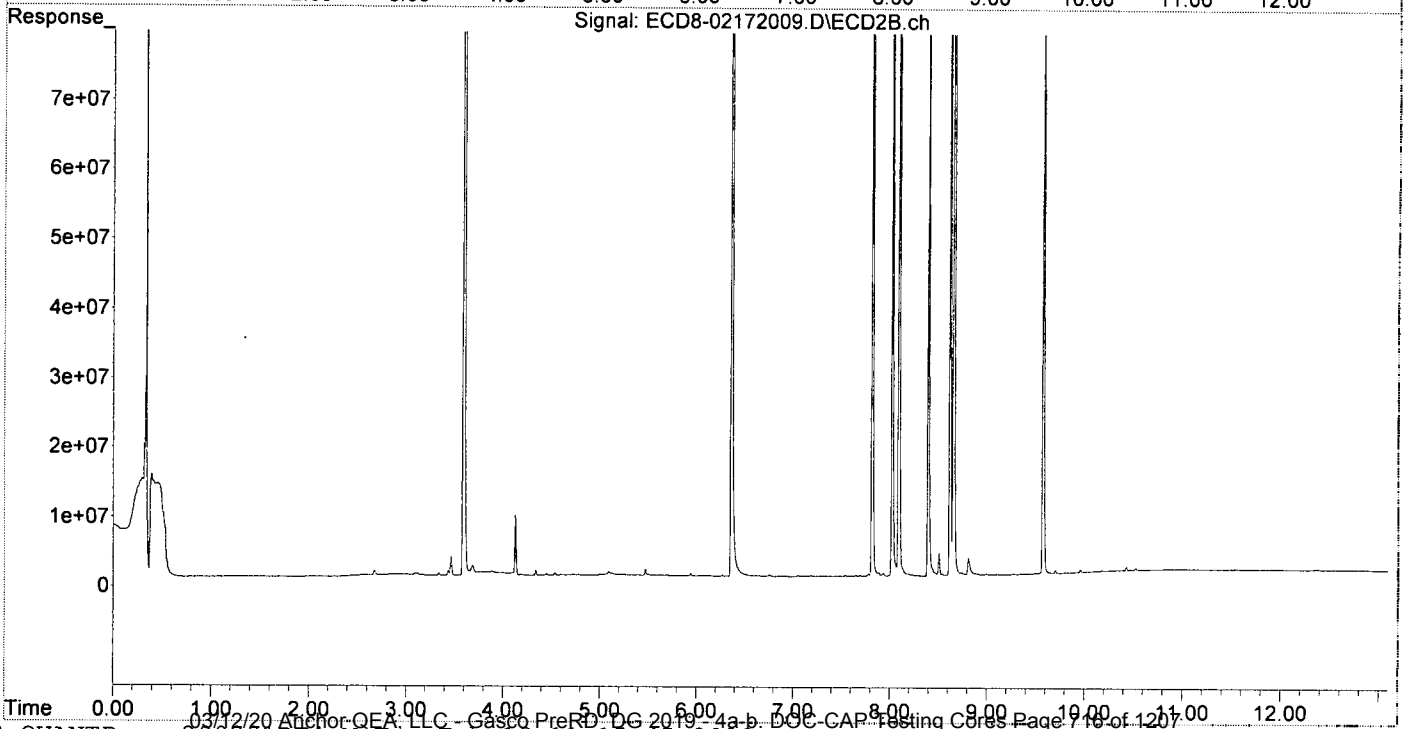
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:02
Operator : MJB
Sample : 0B17041-CCV2
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:15:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:18
Operator : MJB
Sample : 0B17041-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:16:15 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20 clean

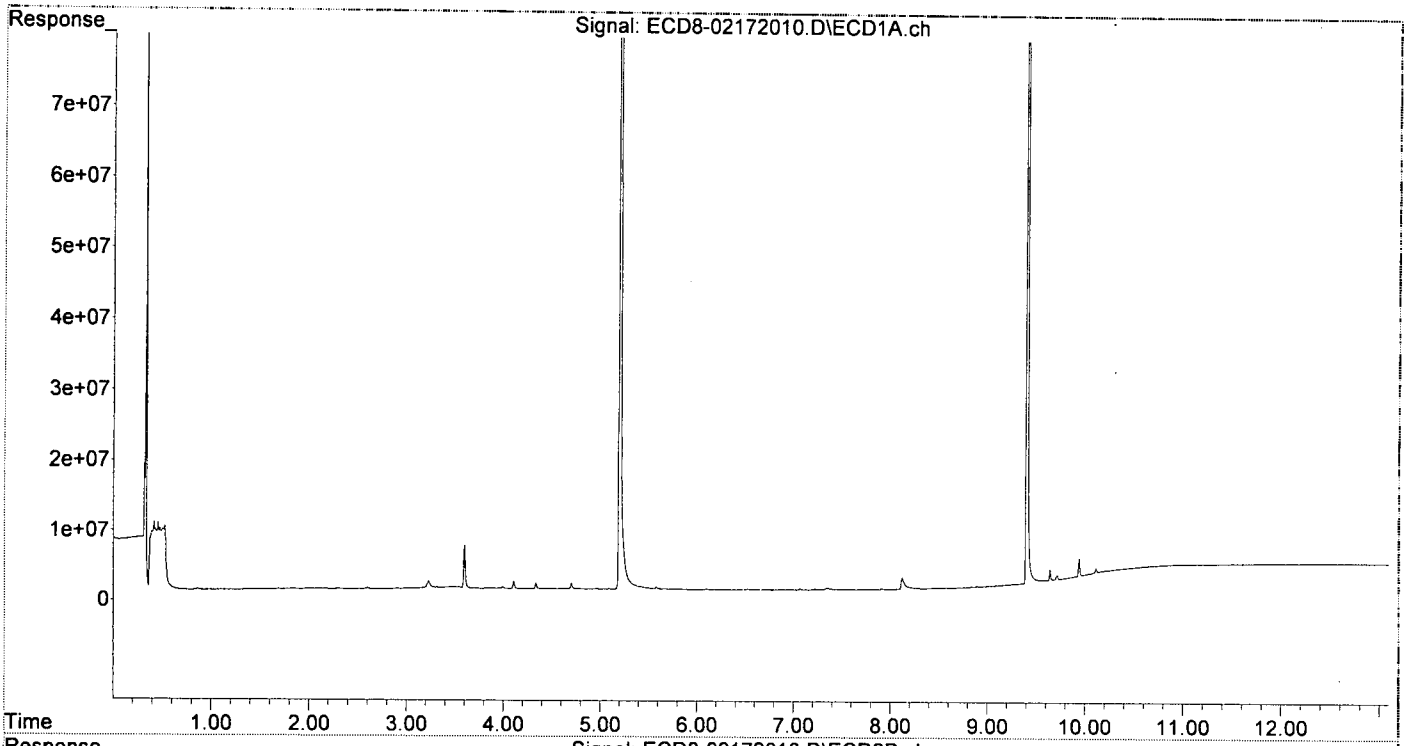
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.198	5.894	291.6E6	330.0E6	83.397	95.663	
22)	S	DCBP (S)	9.403	10.431	247.3E6	224.8E6	92.528	100.142	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.776f	0	34971	N.D.	0.051	#
4)		b-BHC	6.099	6.885	104772	20766	0.060	0.012	#
5)		Heptachlor	6.426	7.191	21761	18762	0.005	0.004	
6)		d-BHC	0.000	7.138	0	14778	N.D.	0.102	#
7)		Aldrin	6.664	7.476f	10024	95997	0.002	0.038	#
8)		Heptachlo...	0.000	7.888	0	15612	N.D.	0.004	#
9)		trans-Chl...	7.220	8.034	100213	58913	0.027	0.016	#
10)		cis-Chlor...	7.346f	8.160f	239002	20191	0.065	0.006	#
11)		Endosulfa...	7.398	8.186	97853	20783	0.028	0.006	#
12)		4,4'-DDE	7.394	0.000	103839	0	0.031	N.D.	#
13)		Dieldrin	0.000	8.386	0	6122	N.D.	0.034	#
14)		Endrin	7.752	8.619	11363	32891	0.003	0.004	
15)		4,4'-DDD	7.781f	8.658	8751	12672	0.003	0.048	#
16)		Endosulfa...	7.909	8.744	175961	194046	0.059	0.043	#
17)		4,4'-DDT	8.015	0.000	25518	0	0.009	N.D.	#
18)		Endrin Al...	8.194	8.998	303325	153972	0.115	0.058	#
19)		Endosulfa...	8.500	9.192	50623	85432	0.018	BelowCal	#
20)		Methoxychlor	8.362	9.364	72657	74472	0.060	BelowCal	#
21)		Endrin Ke...	8.692	9.589	36977	254553	0.011	BelowCal	#
23)		Hexachlor...	2.982	3.613f	83033	120111	0.021	0.025	
24)		Hexachlor...	5.581	6.354	354698	59176	0.106	BelowCal	#
25)		Oxychlordane	7.066	7.816	155081	26986	BelowCal	0.008	
26)		2,4'-DDE	0.000	8.034	0	58913	N.D.	0.026	#
27)		trans-Non...	7.346f	8.067f	239002	382644	0.065	0.106	#
28)		2,4'-DDD	0.000	8.386	0	6122	N.D.	0.003	#
29)		2,4'-DDT	7.693	8.619	22291	32891	0.009	BelowCal	#
30)		cis-Nonac...	7.781	8.658	8751	12672	0.002	0.003	#
31)		Mirex	8.455	9.589	83600	254553	8199.094	BelowCal	#
32)		Chlordane...	7.220	8.034	100213	58913	0.250	0.136	#
33)		Chlordane...	7.346f	8.160	239002	20191	0.491	0.056	#
34)		Chlordane...	7.876	8.812	10278	2470534	0.079	20.804	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.276f	8.386	15153	6122	0.926	0.208	#
37)		Toxaphene...	0.000	8.694f	0	10327	N.D.	0.257	#
38)		Toxaphene...	7.909	8.744	175961	194046	96751.437	2.999	#
39)		Toxaphene...	8.122f	8.812	1714954	2470534	19.493	21.473	
40)		Toxaphene...	8.378	8.998	64429	153972	1.189	2.686	#
41)		Toxaphene...	8.434	9.364	49353	74472	0.649	1.127	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

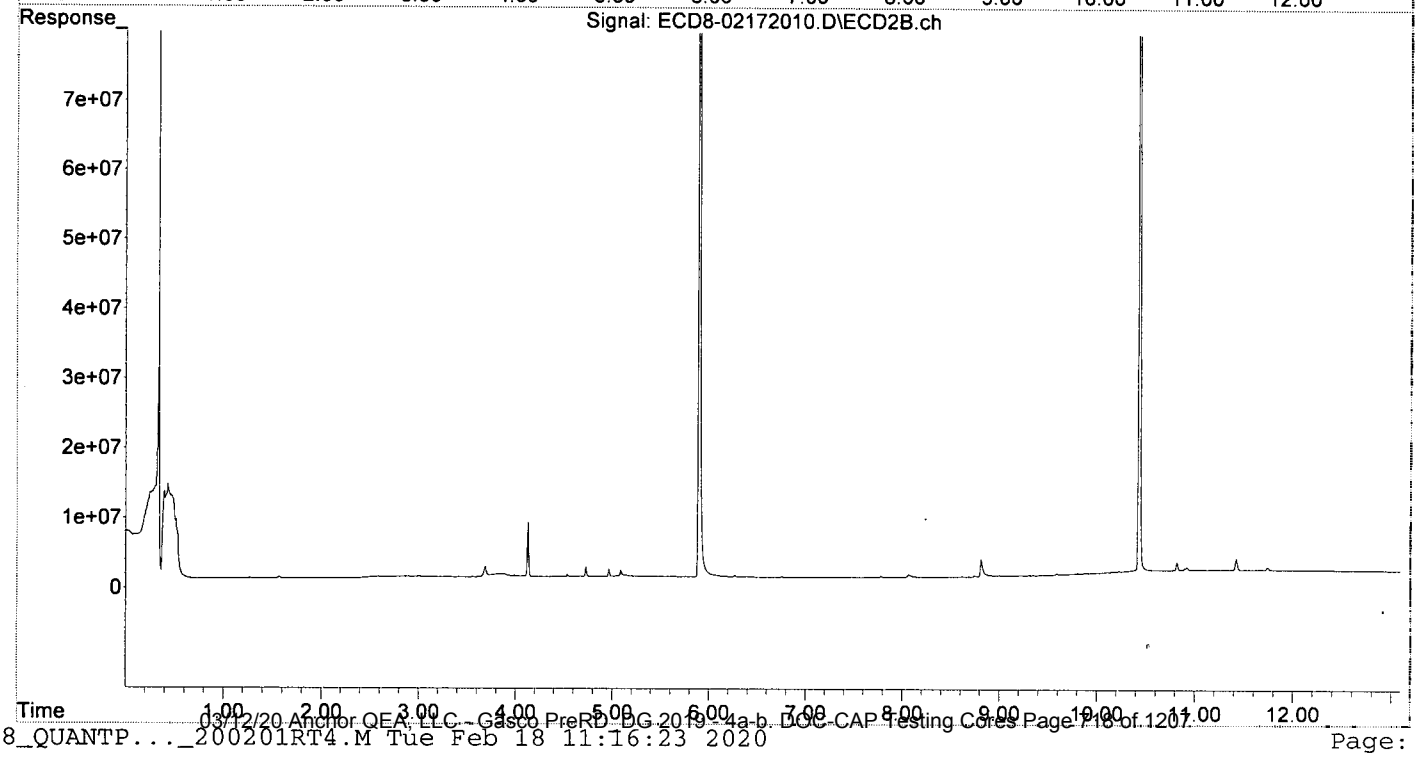
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:18
Operator : MJB
Sample : 0B17041-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:16:15 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:56
Operator : MJB
Sample : 0020205-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20

clean

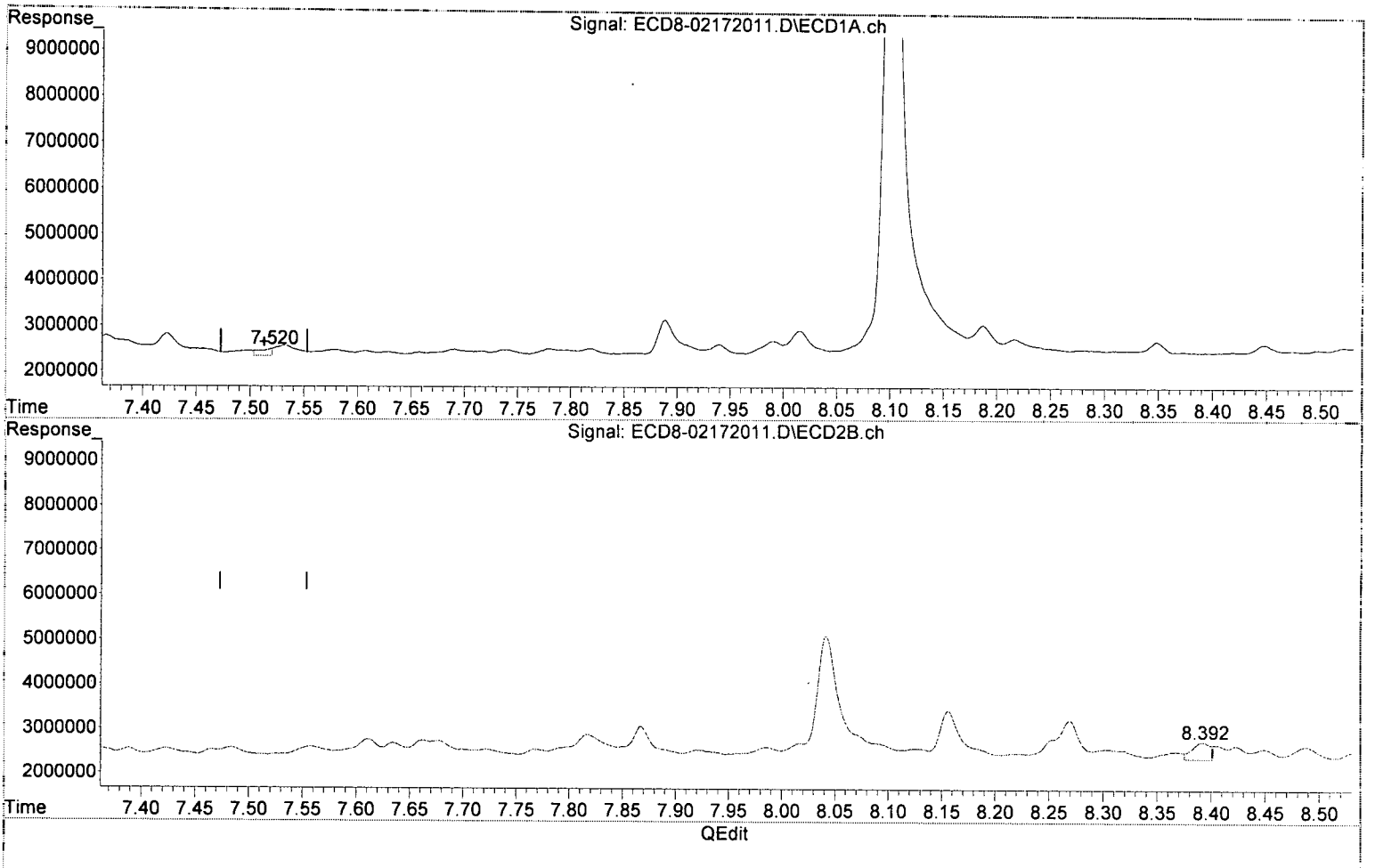
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.198	5.890	214.1E6	241.5E6	61.243	70.023	
22)	S	DCBP (S)	9.403	10.430	272.4E6	238.9E6	101.524	105.880	
		Target Compounds							
2)		a-BHC	5.740	6.493	759680	223998	0.161	0.128	
3)		g-BHC	6.023	6.812	189419	282111	0.045	0.114	#
4)		b-BHC	6.091	6.862	427461	324350	0.245	0.187	
5)		Heptachlor	6.416	7.173	331483	285871	0.081	0.068	
6)		d-BHC	6.250	7.149	178975	383647	0.158	0.207	#
7)		Aldrin	6.671	7.467	271702	260141	0.067	0.082	
8)		Heptachlo...	7.115	7.867f	341062	754231	0.092	0.210	#
9)		trans-Chl...	7.227	8.017	300151	363440	0.080	0.098	
10)		cis-Chlor...	7.307	8.125	2251131	239986	0.613	0.068	#
11)		Endosulfa...	7.423	8.156f	497499	1087262	0.143	0.329	#
12)		4,4'-DDE	7.366f	8.270f	463032	869485	0.139	0.367	#
13)		Dieldrin	7.577	8.393	129993	372956	0.034	0.139	#
14)		Endrin	7.740	8.615	119677	150957	0.037	0.045	
15)		4,4'-DDD	7.818	8.654	137619	133076	0.054	0.100	#
16)		Endosulfa...	7.889	8.762	766546	159400	0.256	0.030	#
17)		4,4'-DDT	8.016	8.879	521133	368267	0.194	0.125	#
18)		Endrin Al...	8.187	9.004	639258	135031	0.243	0.051	#
19)		Endosulfa...	8.497	9.195	30941	131168	0.011	BelowCal	#
20)		Methoxychlor	8.349	9.365	253283	468138	0.210	0.068	#
21)		Endrin Ke...	8.688	9.588	11518542	844885	3.332	0.077	#
23)		Hexachlor...	2.975	3.559f	517777	37181552	0.133	7.679	#
24)		Hexachlor...	5.578	6.372	655995	1282583	0.195	0.392	#
25)		Oxychlordane	7.050	7.817	257369	577377	BelowCal	0.181	
26)		2,4'-DDE	7.115f	8.017	341062	363440	0.148	0.160	
27)		trans-Non...	7.307	8.125f	2251131	239986	0.614	0.066	#
28)		2,4'-DDD	~~7.500~~7.520	8.393	~~115024~~	372956	~~0.0590~~.081	0.195	#
29)		2,4'-DDT	7.691	8.615	135181	150957	0.056	0.022	#
30)		cis-Nonac...	7.781	8.654	135880	133076	0.033	0.033	
31)		Mirex	8.448	9.588	165870	844885	8199.060	0.156	#
32)		Chlordane...	7.227	8.042	300151	2775317	0.749	6.388	#
33)		Chlordane...	7.307	8.156	2251131	1087262	4.629	2.991	#
34)		Chlordane...	7.861	8.798	36892	16804630	0.283	141.506	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.307	8.367	2251131	160479	137.521	5.446	#
37)		Toxaphene...	7.608	8.720	105958	259666	3.373	6.461	#
38)		Toxaphene...	7.889	8.746	766546	224061	7.730	3.463	#
39)		Toxaphene...	8.187f	8.798f	639258	16804630	2.913	168.462	#
40)		Toxaphene...	8.349f	9.004	253283	135031	4.673	2.355	#
41)		Toxaphene...	8.448	9.365	165870	468138	2.181	7.087	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:56
Operator : MJB
Sample : 0020205-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.520min 0.081 ng/mL m

2/18/20

response 157401

(28) 2,4'-DDD #2

8.393min 0.195 ng/mL

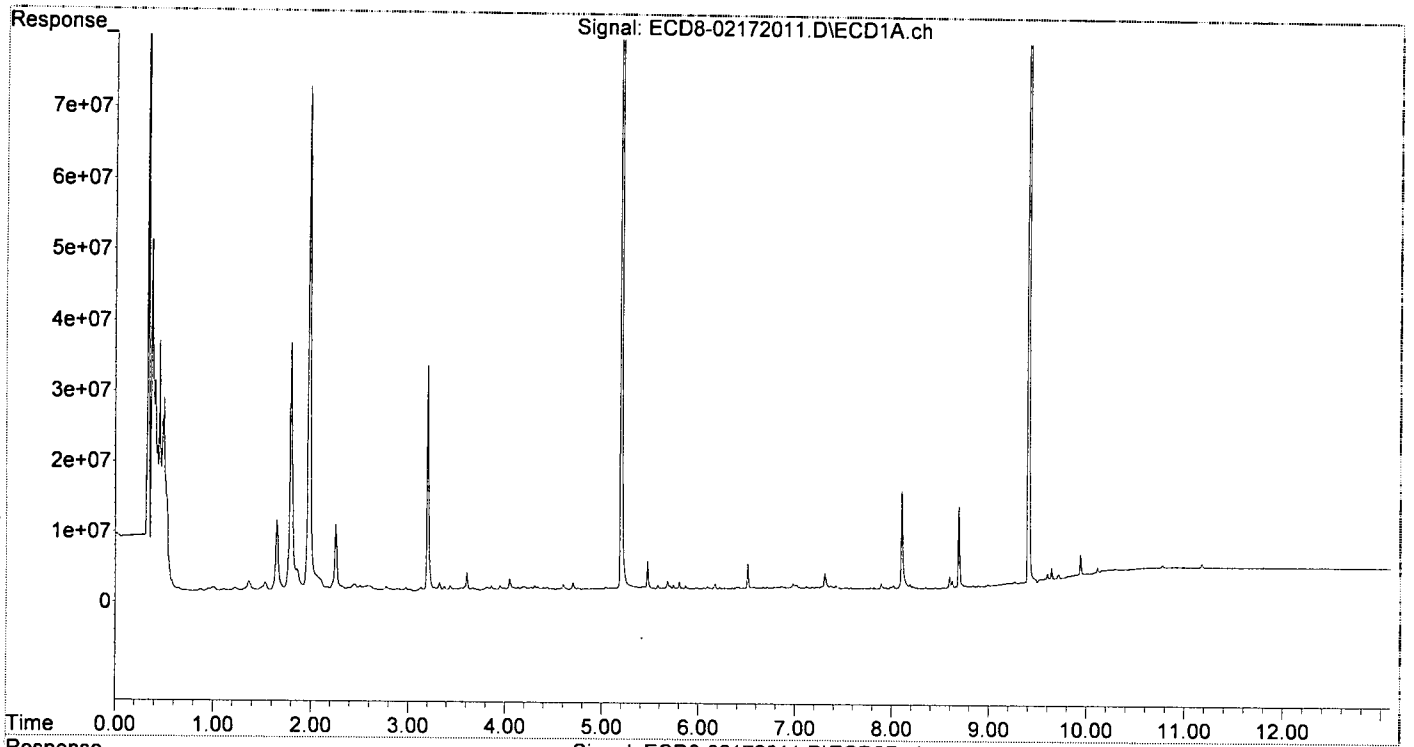
response 372956

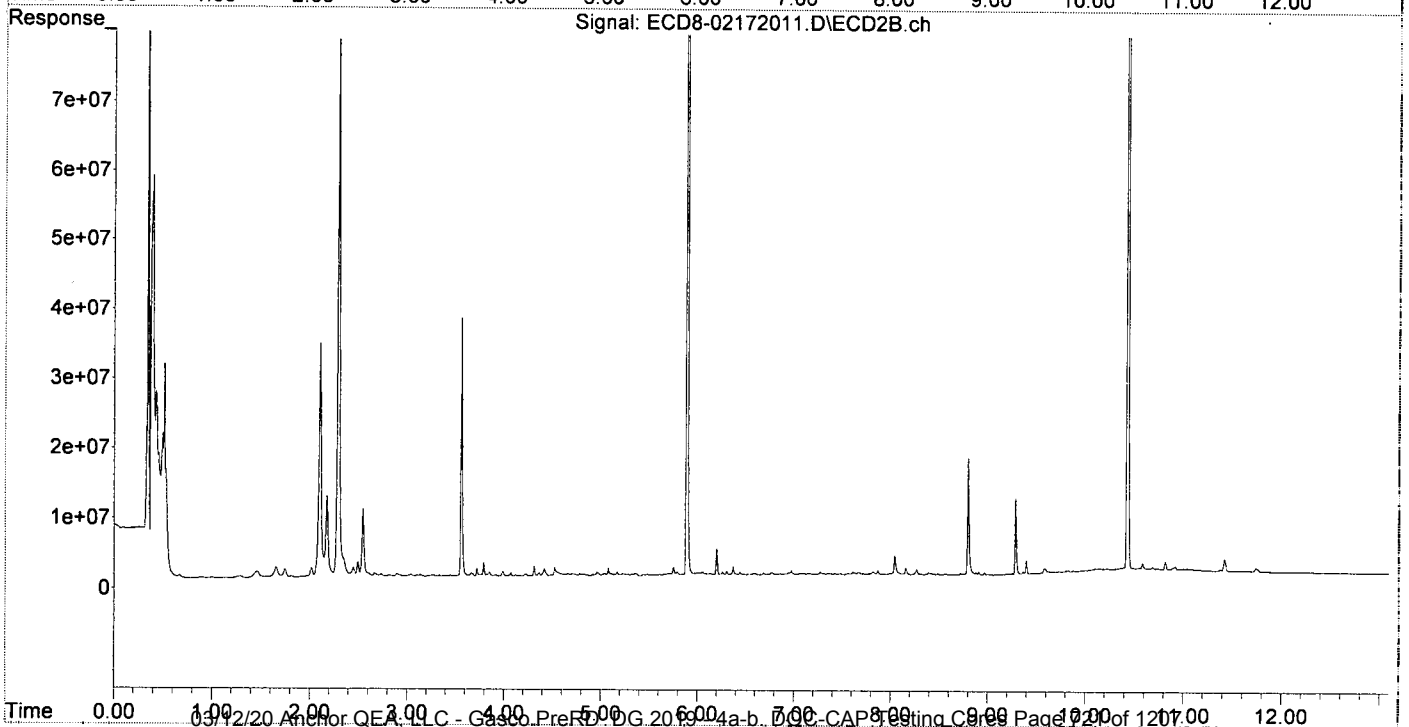
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 14:56
Operator : MJB
Sample : 0020205-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 15:13
Operator : MJB
Sample : 0020205-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20

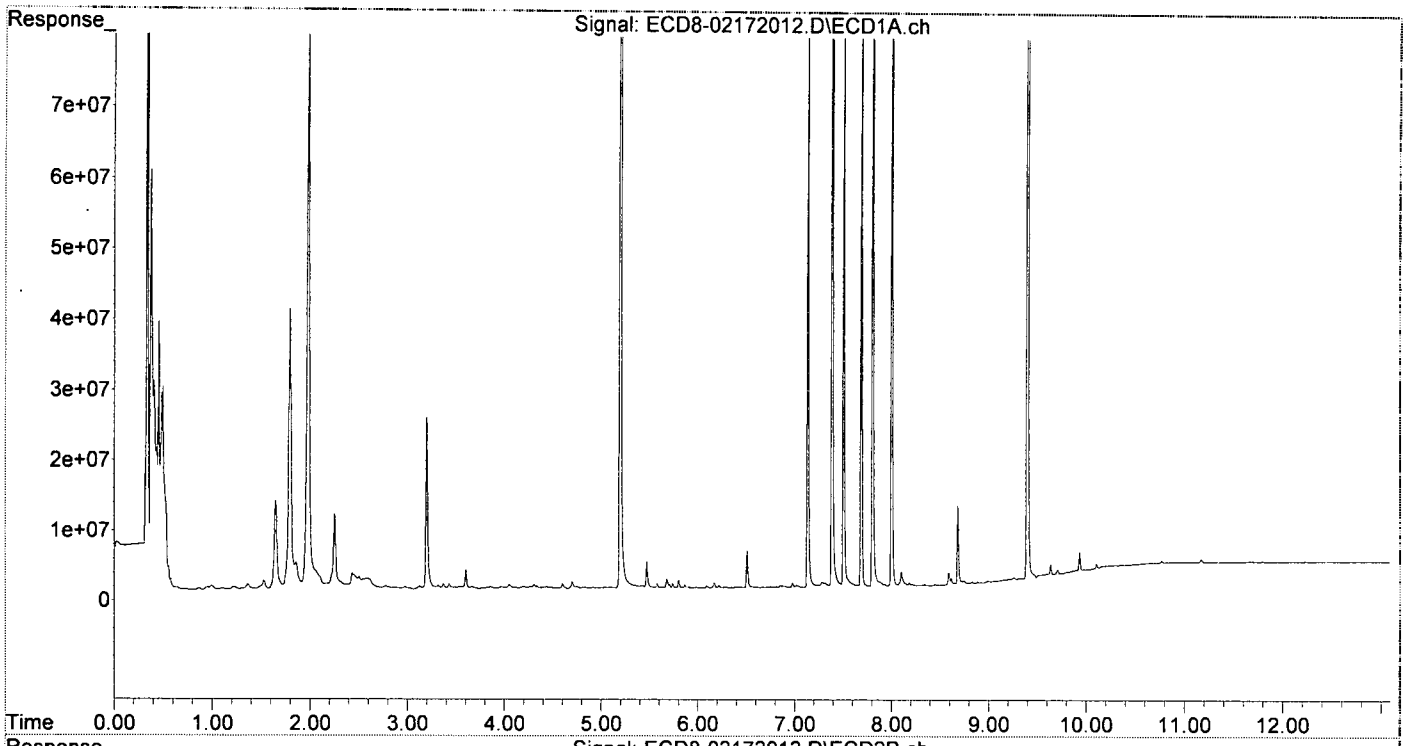
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.197	5.893	212.3E6	238.3E6	60.718	69.067	
22)	S	DCBP (S)	9.399	10.429	265.2E6	225.3E6	98.947	100.342	
		Target Compounds							
2)		a-BHC	5.740	0.000	1737018	0	0.368	N.D.	#
3)		g-BHC	6.019	6.781f	1173360	273597	0.282	0.112	#
4)		b-BHC	6.092	6.884	1435745	68482	0.824	0.039	#
5)		Heptachlor	6.437	7.189	1369193	54502	0.333	0.013	#
6)		d-BHC	6.253	7.156f	1220959	70439	0.460	0.118	#
7)		Aldrin	6.674	7.467	1392919	128650	0.345	0.046	#
8)		Heptachlo...	7.137	7.869	91776676	749286	24.853	0.209	#
9)		trans-Chl...	7.247f	8.020	1742570	90532669	0.463	24.347	#
10)		cis-Chlor...	7.313	8.160f	2049110	531608	0.558	0.151	#
11)		Endosulfa...	7.388f	8.160f	142.1E6	531608	40.976	0.161	#
12)		4,4'-DDE	7.388	8.241	142.1E6	149.5E6	42.801	44.200	
13)		Dieldrin	0.000	8.393	0	85718800	N.D.	23.705	#
14)		Endrin	0.000	8.616	0	102.7E6	N.D.	33.879	#
15)		4,4'-DDD	7.806	8.656	119.9E6	126.2E6	47.123	47.910	
16)		Endosulfa...	7.889	8.763	2299542	287303	0.769	0.079	#
17)		4,4'-DDT	8.004	8.882	126.5E6	132.9E6	47.055	48.228	
18)		Endrin Al...	8.186	9.004	2216218	206938	0.842	0.078	#
19)		Endosulfa...	8.495	9.178	1946934	170873	0.680	BelowCal	#
20)		Methoxychlor	8.347	9.362	2084269	482071	1.727	0.081	#
21)		Endrin Ke...	8.684	9.590	13353952	1192249	3.863	0.200	#
23)		Hexachlor...	2.974	3.566f	837859	34461700	0.215	7.117	#
24)		Hexachlor...	5.578	6.375	1712275	1226069	0.509	0.373	#
25)		Oxychlordane	7.020f	7.824	1674209	445201	0.366	0.139	#
26)		2,4'-DDE	7.137	8.020	91776676	90532669	39.694	39.829	
27)		trans-Non...	7.313	0.000	2049110	0	0.559	N.D.	#
28)		2,4'-DDD	7.507	8.393	84578535	85718800	43.669	44.779	
29)		2,4'-DDT	7.690	8.616	98377452	102.7E6	41.108	44.427	
30)		cis-Nonac...	7.806f	8.656	119.9E6	126.2E6	29.470	31.655	
31)		Mirex	8.450	9.590	2063647	1192249	0.646	0.324	#
32)		Chlordane...	7.247	8.020	1742570	90532669	4.351	208.372	#
33)		Chlordane...	7.313	8.160	2049110	531608	4.213	1.462	#
34)		Chlordane...	7.889	8.801	2299542	2729666	17.662	22.986	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.313	8.393f	2049110	85718800	125.179	2908.783	#
37)		Toxaphene...	0.000	8.723	0	348992	N.D.	8.684	#
38)		Toxaphene...	7.889	8.745	2299542	290287	29.516	4.487	#
39)		Toxaphene...	8.186f	8.801	2216218	2729666	27.218	24.159	
40)		Toxaphene...	8.370	9.004	1876033	206938	34.612	3.610	#
41)		Toxaphene...	8.450	9.362	2063647	482071	27.134	7.298	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

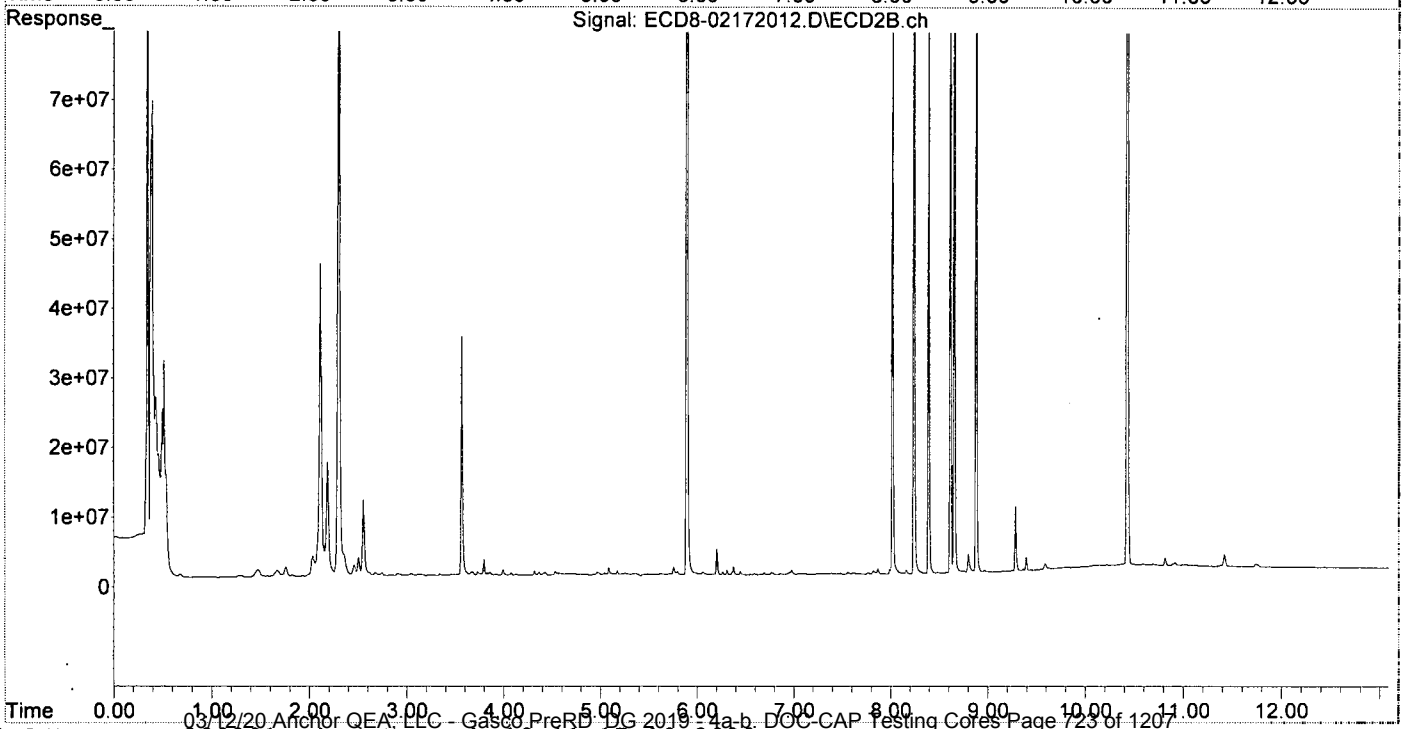
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 15:13
Operator : MJB
Sample : 0020205-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 17:45
Operator : MJB
Sample : 0B17041-CCV3
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20

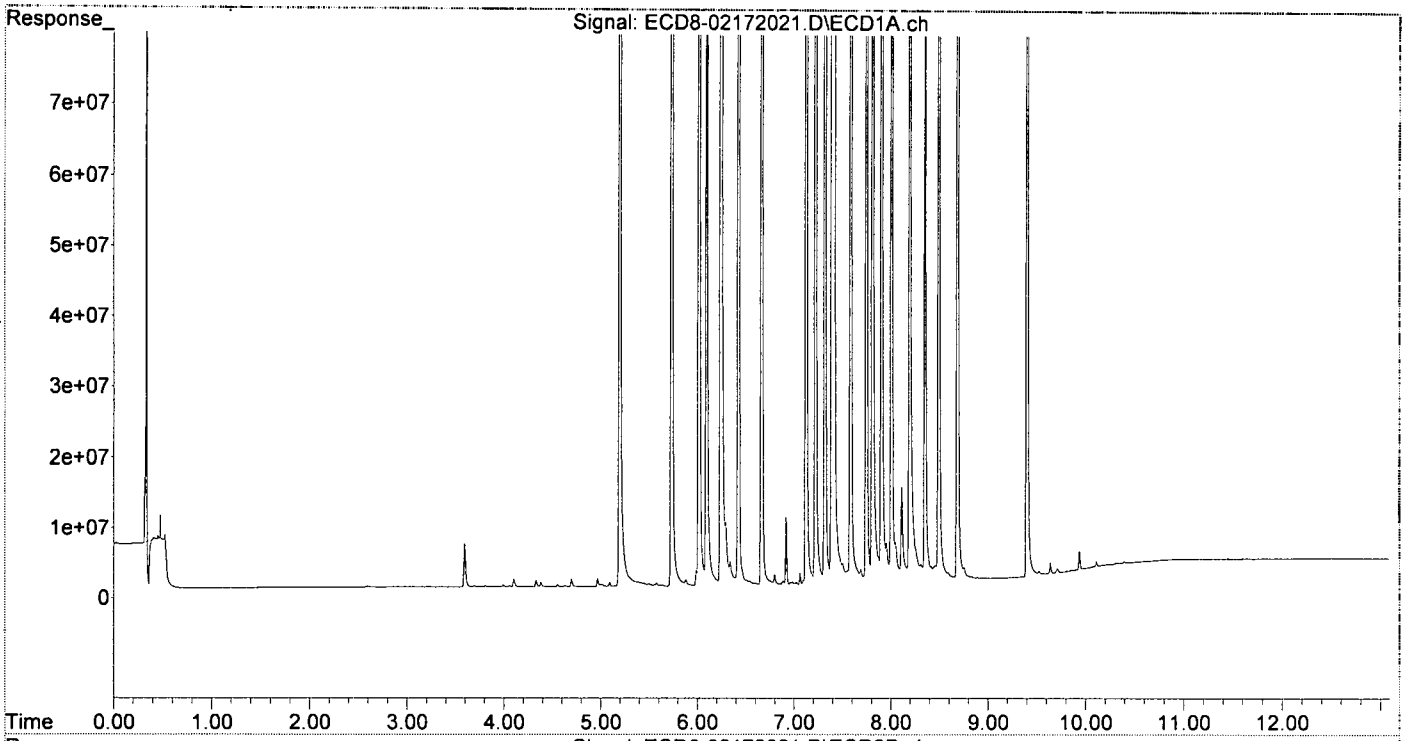
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.197	5.893	308.1E6	349.4E6	88.133	101.274	
22)	S	DCBP (S)	9.402	10.430	252.3E6	226.7E6	94.312	100.926	
		Target Compounds							
2)		a-BHC	5.734	6.495	451.4E6	521.4E6	95.550	102.072	
3)		g-BHC	6.016	6.813	391.4E6	418.7E6	94.013	93.561	
4)		b-BHC	6.094	6.878	147.9E6	164.3E6	84.916	94.637	
5)		Heptachlor	6.426	7.184	383.3E6	408.1E6	93.252	96.925	
6)		d-BHC	6.242	7.132	313.6E6	385.0E6	82.471	92.178	
7)		Aldrin	6.665	7.449	389.5E6	403.9E6	96.399	94.669	
8)		Heptachlo...	7.125	7.887	337.9E6	367.8E6	91.506	102.464	
9)		trans-Chl...	7.222	8.027	352.9E6	372.4E6	93.846	100.153	
10)		cis-Chlor...	7.319	8.134	347.8E6	362.8E6	94.721	102.996	
11)		Endosulfa...	7.412	8.184	340.0E6	325.8E6	98.013	98.574	
12)		4,4'-DDE	7.391	8.243	314.8E6	361.3E6	94.799	97.096	
13)		Dieldrin	7.585	8.385	366.4E6	393.9E6	96.091	98.459	
14)		Endrin	7.748	8.612	300.0E6	304.2E6	91.924	92.105	
15)		4,4'-DDD	7.810	8.659	234.8E6	277.6E6	92.254	94.758	
16)		Endosulfa...	7.905	8.760	262.3E6	287.4E6	87.682	93.199	
17)		4,4'-DDT	8.007	8.884	257.5E6	290.0E6	95.777	95.049	
18)		Endrin Al...	8.195	8.996	221.5E6	259.9E6	84.120	98.293	
19)		Endosulfa...	8.494	9.188	251.7E6	276.8E6	87.948	94.423	
20)		Methoxychlor	8.352	9.365	101.2E6	127.5E6	83.884	96.242	
21)		Endrin Ke...	8.687	9.587	303.0E6	316.6E6	87.676	95.367	
23)		Hexachlor...	2.978	3.608	46848	11510	0.012	0.002	#
24)		Hexachlor...	5.578	6.351	492971	20632	0.147	BelowCal	#
25)		Oxychlordane	7.063	7.802	1635894	372136	0.353	0.116	#
26)		2,4'-DDE	7.125	8.027	337.9E6	372.4E6	146.150	163.839	
27)		trans-Non...	7.319	8.085	347.8E6	1488354	94.878	0.412	#
28)		2,4'-DDD	7.502	8.385	2791940	393.9E6	1.442	205.773	#
29)		2,4'-DDT	7.691	8.612	1884178	304.2E6	0.787	116.838	#
30)		cis-Nonac...	7.810f	8.659	234.8E6	277.6E6	57.694	69.657	
31)		Mirex	8.459	9.587	2046226	316.6E6	0.638	141.959	#
32)		Chlordane...	7.222	8.027	352.9E6	372.4E6	881.223	857.145	
33)		Chlordane...	7.319	8.134	347.8E6	362.8E6	715.237	997.980	#
34)		Chlordane...	7.905f	8.810	262.3E6	3090456	2014.680	26.024	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.319	8.385	347.8E6	393.9E6	21249.359	13366.831	#
37)		Toxaphene...	7.585	0.000	366.4E6	0	11664.086	N.D.	#
38)		Toxaphene...	7.905	8.760	262.3E6	287.4E6	3878.540	4442.910	
39)		Toxaphene...	8.113f	8.810	13510348	3090456	200.929	27.897	#
40)		Toxaphene...	8.352f	8.996	101.2E6	259.9E6	1867.410	4532.739	#
41)		Toxaphene...	8.459	9.365	2046226	127.5E6	26.905	1929.582	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

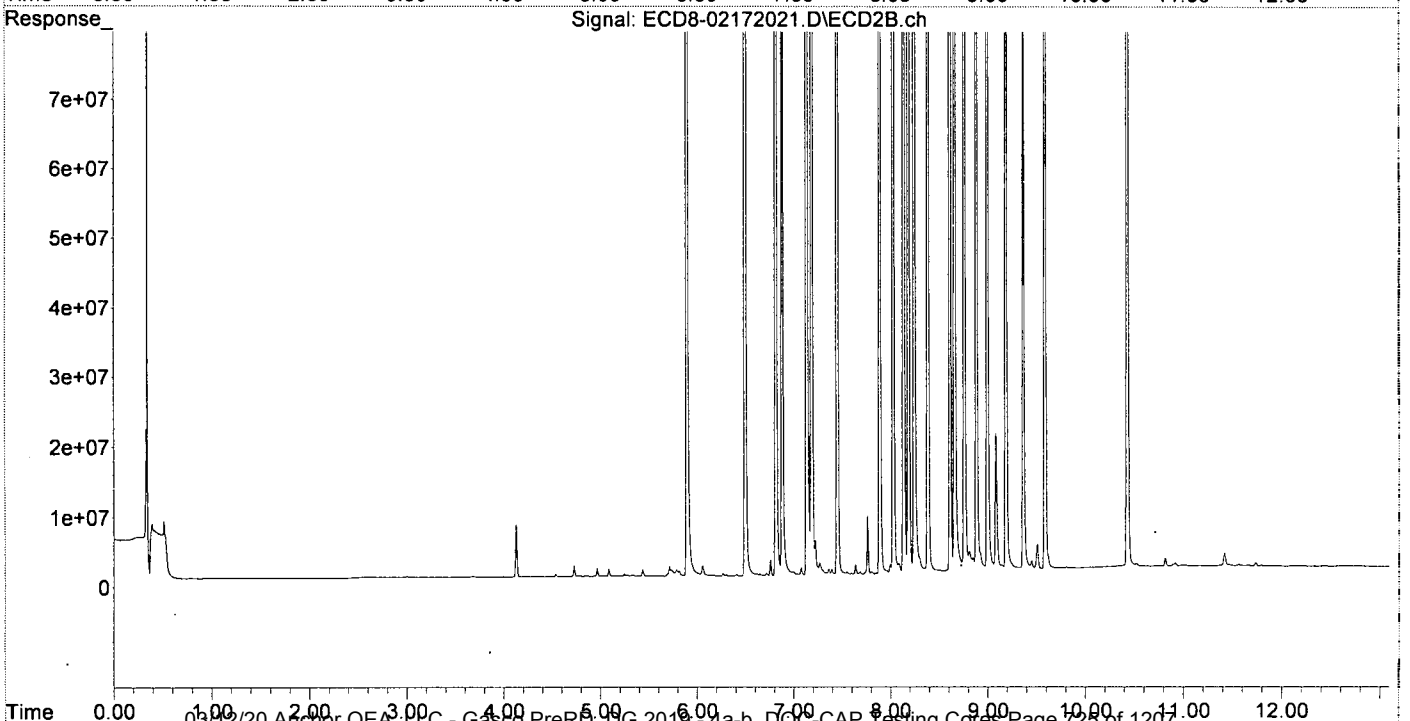
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 17:45
Operator : MJB
Sample : 0B17041-CCV3
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 18:02
Operator : MJB
Sample : 0B17041-CCV4
Misc : A19J409, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20

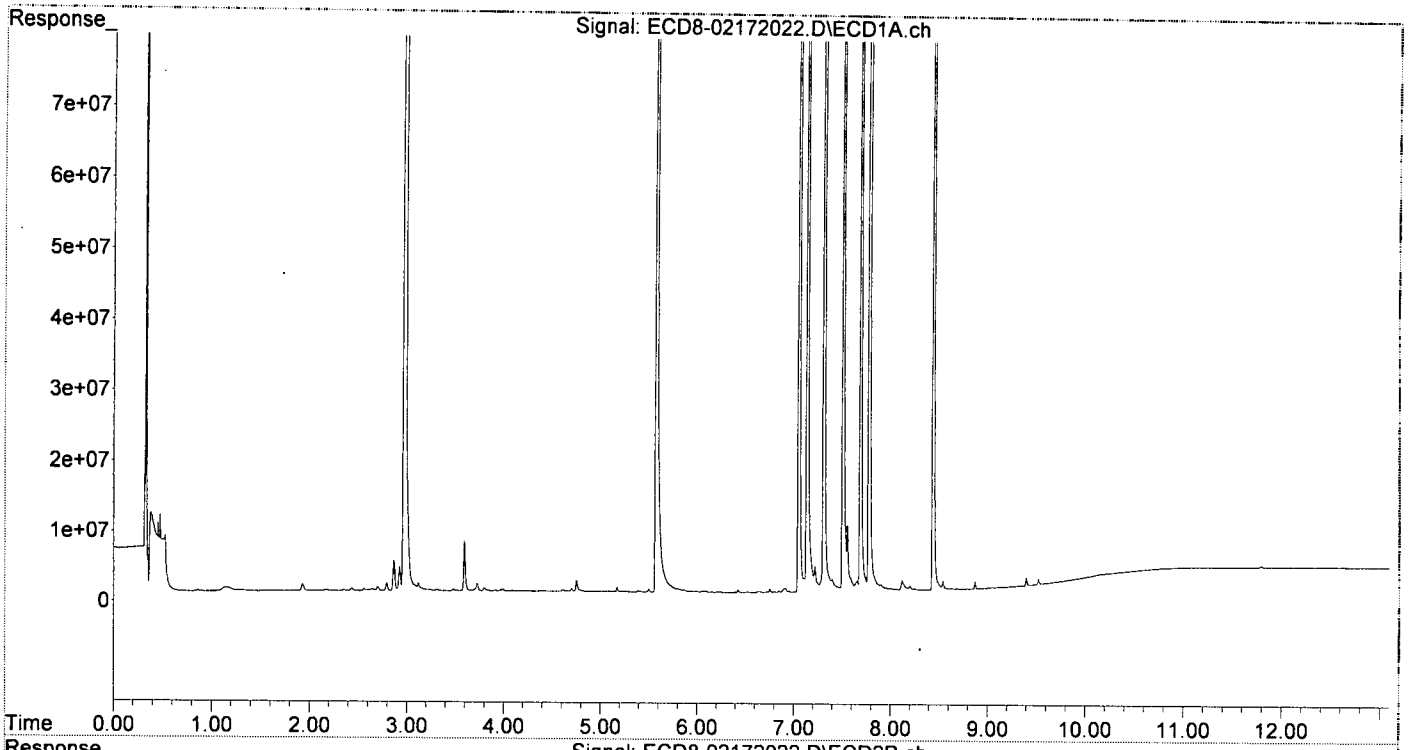
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.212	5.897	105137	176905	0.030	0.051	#
22)	S	DCBP (S)	9.400	10.430	1305454	1462105	0.176	0.216	
		Target Compounds							
2)		a-BHC	5.763f	6.466f	647935	830711	0.137	0.270	#
3)		g-BHC	6.016	6.820	134100	63973	0.032	0.059	#
4)		b-BHC	6.091	6.881	222474	130406	0.128	0.075	#
5)		Heptachlor	6.425	7.183	402835	392686	0.098	0.093	
6)		d-BHC	6.247	7.137	99847	108596	0.135	0.129	
7)		Aldrin	6.647f	7.445	134255	61410	0.033	0.028	
8)		Heptachlo...	7.139	7.885	218.8E6	982726	59.251	0.274	#
9)		trans-Chl...	7.220	8.021	3621832	232.7E6	0.963	62.570	#
10)		cis-Chlor...	7.311	0.000	351.3E6	0	95.650	N.D.	#
11)		Endosulfa...	7.400	8.197	1748406	874114	0.504	0.264	#
12)		4,4'-DDE	7.400	8.224f	1748406	406843	0.527	0.219	#
13)		Dieldrin	7.556f	8.394	9561299	205.7E6	2.507	54.489	#
14)		Endrin	7.780f	8.617	406.4E6	254.6E6	124.531	78.605	#
15)		4,4'-DDD	7.780f	8.655	406.4E6	432.3E6	159.696	135.618	
16)		Endosulfa...	7.904	8.759	903190	550423	0.302	0.178	#
17)		4,4'-DDT	8.007	8.883	348726	419621	0.130	0.146	
18)		Endrin Al...	8.204	8.997	653617	252154	0.248	0.095	#
19)		Endosulfa...	0.000	9.189	0	154915	N.D.	BelowCal	
20)		Methoxychlor	8.355	9.368	35300	187555	0.029	BelowCal	#
21)		Endrin Ke...	8.687	9.576	114696	242.5E6	0.033	75.373	#
23)		Hexachlor...	2.975	3.592	354.0E6	465.9E6	90.803	96.218	
24)		Hexachlor...	5.577	6.359	322.3E6	362.6E6	95.871	106.097	
25)		Oxychlordane	7.053	7.815	313.4E6	337.3E6	100.379	105.454	
26)		2,4'-DDE	7.139	8.021	218.8E6	232.7E6	94.634	102.357	
27)		trans-Non...	7.311	8.089	351.3E6	371.0E6	95.808	102.790	
28)		2,4'-DDD	7.510	8.394	187.6E6	205.7E6	96.873	107.472	
29)		2,4'-DDT	7.691	8.617	228.9E6	254.6E6	95.658	100.377	
30)		cis-Nonac...	7.780	8.655	406.4E6	432.3E6	99.872	108.471	
31)		Mirex	8.442	9.576	247.8E6	242.5E6	103.426	110.424	
32)		Chlordane...	7.220	8.021	3621832	232.7E6	9.044	535.492	#
33)		Chlordane...	7.311	0.000	351.3E6	0	722.251	N.D.	#
34)		Chlordane...	7.904f	8.813	903190	2054444	6.937	17.300	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.311	8.394f	351.3E6	205.7E6	21457.736	6981.324	#
37)		Toxaphene...	0.000	8.737f	0	690336	N.D.	17.177	#
38)		Toxaphene...	7.904	8.759	903190	550423	9.672	8.508	
39)		Toxaphene...	8.122f	8.813	1381007	2054444	14.347	17.159	
40)		Toxaphene...	8.355	8.997	35300	252154	0.651	4.398	#
41)		Toxaphene...	8.442	9.368	247.8E6	187555	3258.660	2.839	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

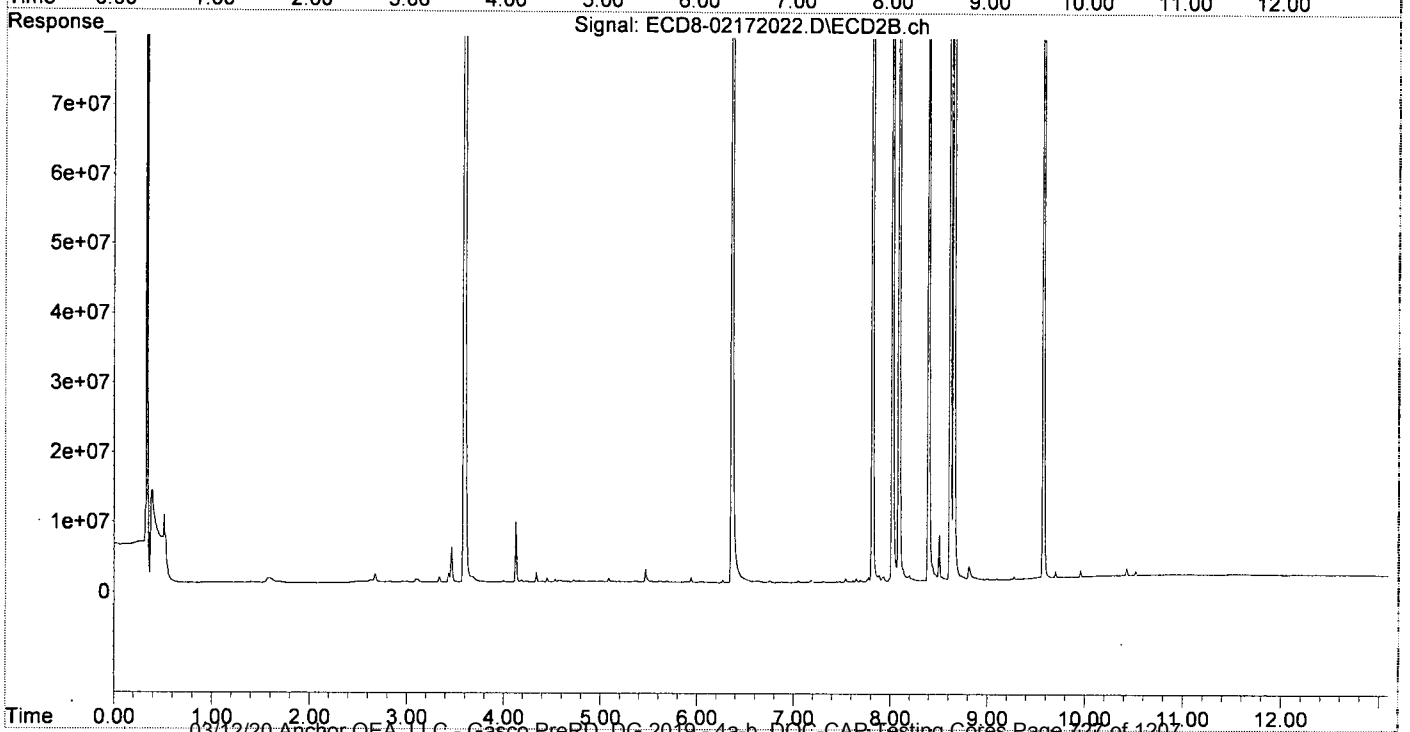
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 18:02
Operator : MJB
Sample : 0B17041-CCV4
Misc : A19J409, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 18:18
Operator : MJB
Sample : 0B17041-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

2/18/20 clear

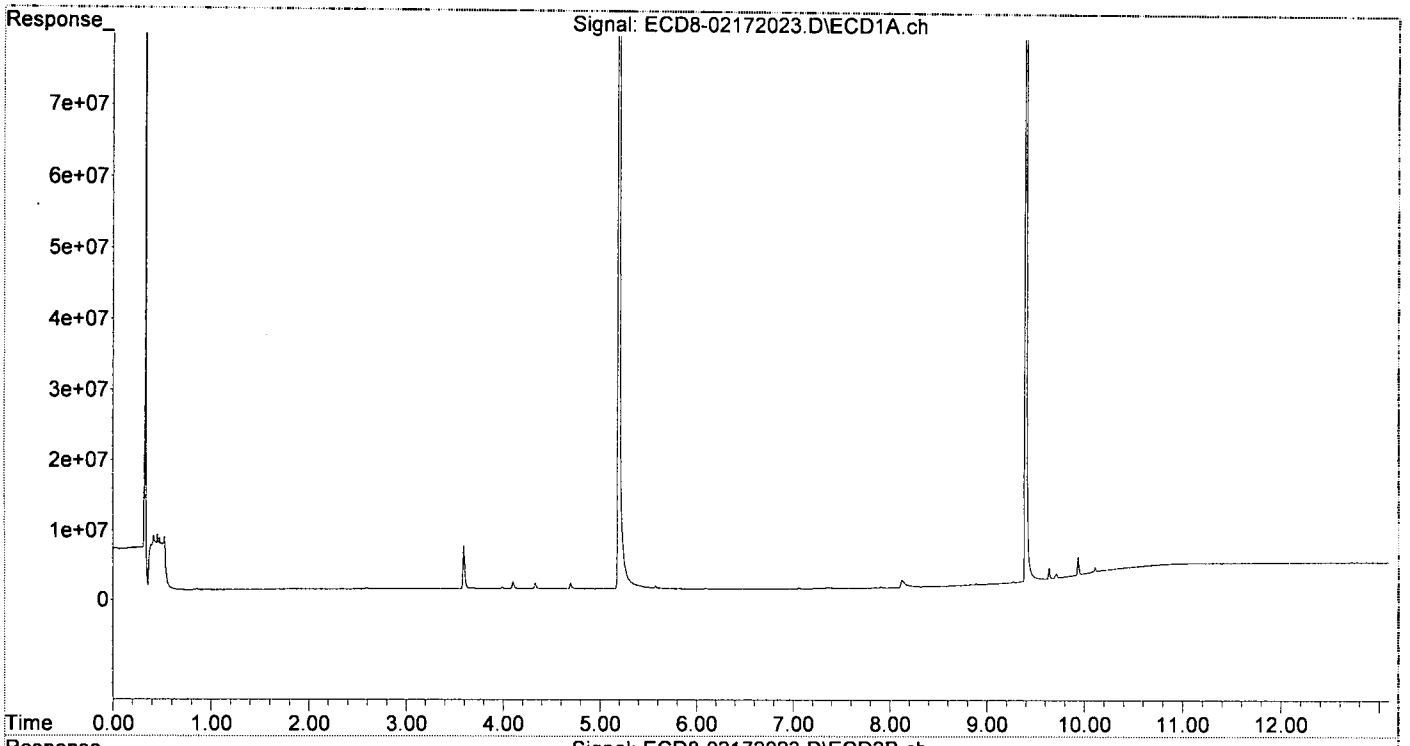
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.196	5.893	288.9E6	337.1E6	82.639	97.731	
22)	S	DCBP (S)	9.400	10.428	248.2E6	226.1E6	92.852	100.659	
		Target Compounds							
2)		a-BHC	0.000	6.464f	0	18638	N.D.	0.080	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.097	6.888	108691	20173	0.062	0.012	#
5)		Heptachlor	0.000	7.180	0	25074	N.D.	0.006	#
6)		d-BHC	0.000	7.140	0	29919	N.D.	0.106	#
7)		Aldrin	6.665	7.476f	25953	96160	0.006	0.038	#
8)		Heptachlo...	7.126	7.884	12850	14939	0.003	0.004	
9)		trans-Chl...	7.223	8.032	100120	60933	0.027	0.016	#
10)		cis-Chlor...	7.320	8.144	58563	40250	0.016	0.011	#
11)		Endosulfa...	7.451f	8.190	37550	24717	0.011	0.007	#
12)		4,4'-DDE	7.368f	8.244	132014	8471	0.040	0.091	#
13)		Dieldrin	7.581	8.389	13452	9806	0.004	0.035	#
14)		Endrin	7.748	8.620	11436	29170	0.004	0.003	#
15)		4,4'-DDD	7.806	8.657	6889	26438	0.003	0.054	#
16)		Endosulfa...	7.909	8.765	186015	65192	0.062	BelowCal	#
17)		4,4'-DDT	7.988f	8.896	8878	192633	0.003	0.053	#
18)		Endrin Al...	0.000	8.997	0	133150	N.D.	0.050	#
19)		Endosulfa...	8.499	9.190	51312	66335	0.018	BelowCal	#
20)		Methoxychlor	8.350	9.365	76901	73257	0.064	BelowCal	#
21)		Endrin Ke...	8.689	9.589	38820	206988	0.011	BelowCal	#
23)		Hexachlor...	2.977	3.611	47963	61465	0.012	0.013	
24)		Hexachlor...	5.578	6.352	431021	39904	0.128	BelowCal	#
25)		Oxychlordane	7.065	7.815	164342	26525	BelowCal	0.008	
26)		2,4'-DDE	7.132	8.032	11176	60933	0.005	0.027	#
27)		trans-Non...	7.320	8.075	58563	227989	0.016	0.063	#
28)		2,4'-DDD	7.477f	8.394	33863	9541	0.017	0.005	#
29)		2,4'-DDT	7.701	8.620	19786	29170	0.008	BelowCal	#
30)		cis-Nonac...	7.783	8.657	15644	26438	0.004	0.007	#
31)		Mirex	8.453	9.589	68635	206988	8199.101	BelowCal	#
32)		Chlordane...	7.223	8.032	100120	60933	0.250	0.140	#
33)		Chlordane...	7.320	8.144	58563	40250	0.120	0.111	
34)		Chlordane...	7.877	8.814	9271	1606029	0.071	13.524	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.320	8.367	58563	8187	3.578	0.278	#
37)		Toxaphene...	7.597	8.691f	12802	12099	0.408	0.301	#
38)		Toxaphene...	7.909	8.744	186015	199520	96751.294	3.084	#
39)		Toxaphene...	8.127f	8.814	1141732	1606029	10.659	12.506	
40)		Toxaphene...	8.380	8.997	53213	133150	0.982	2.323	#
41)		Toxaphene...	8.453	9.365	68635	73257	0.902	1.109	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

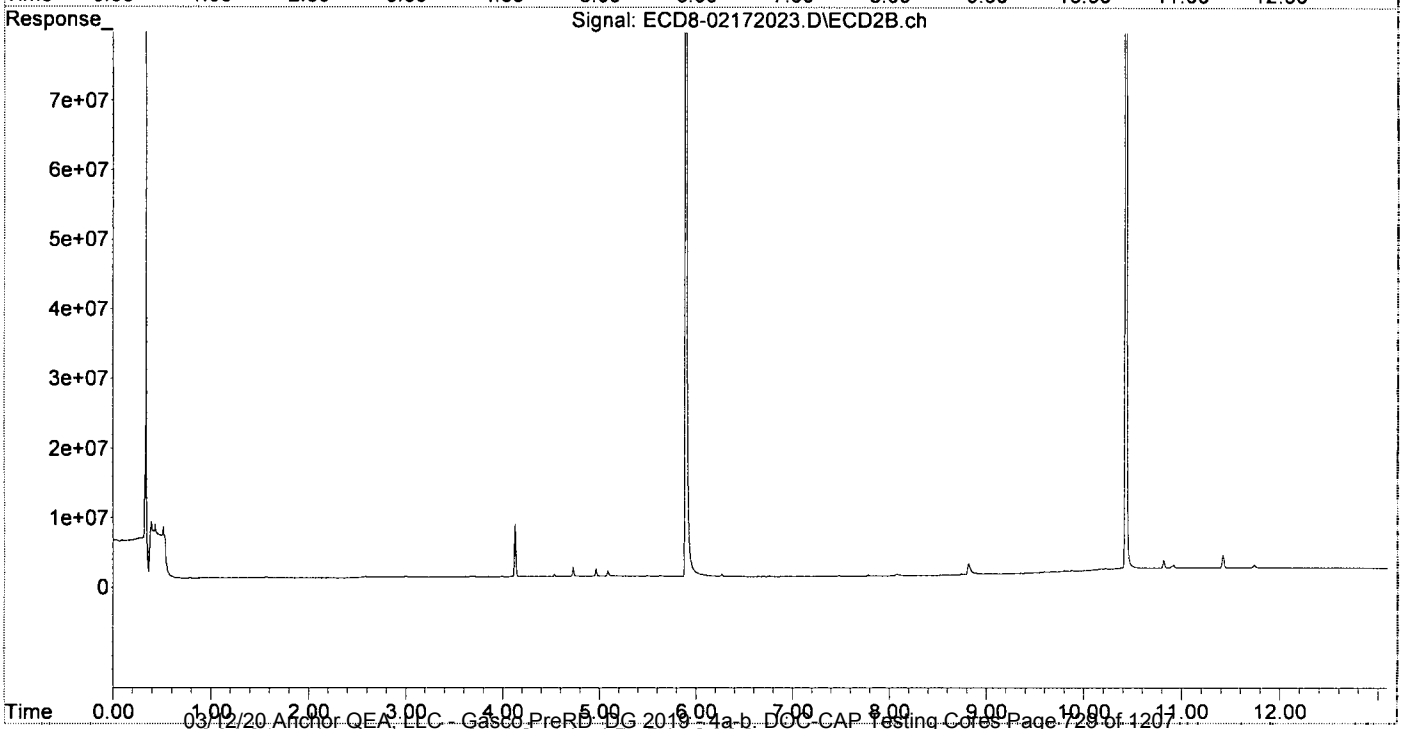
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 18:18
Operator : MJB
Sample : 0B17041-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 18 11:17:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 23:14
Operator : MJB
Sample : 0B17041-CCV5
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 10:47:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

DHT 2/19/20

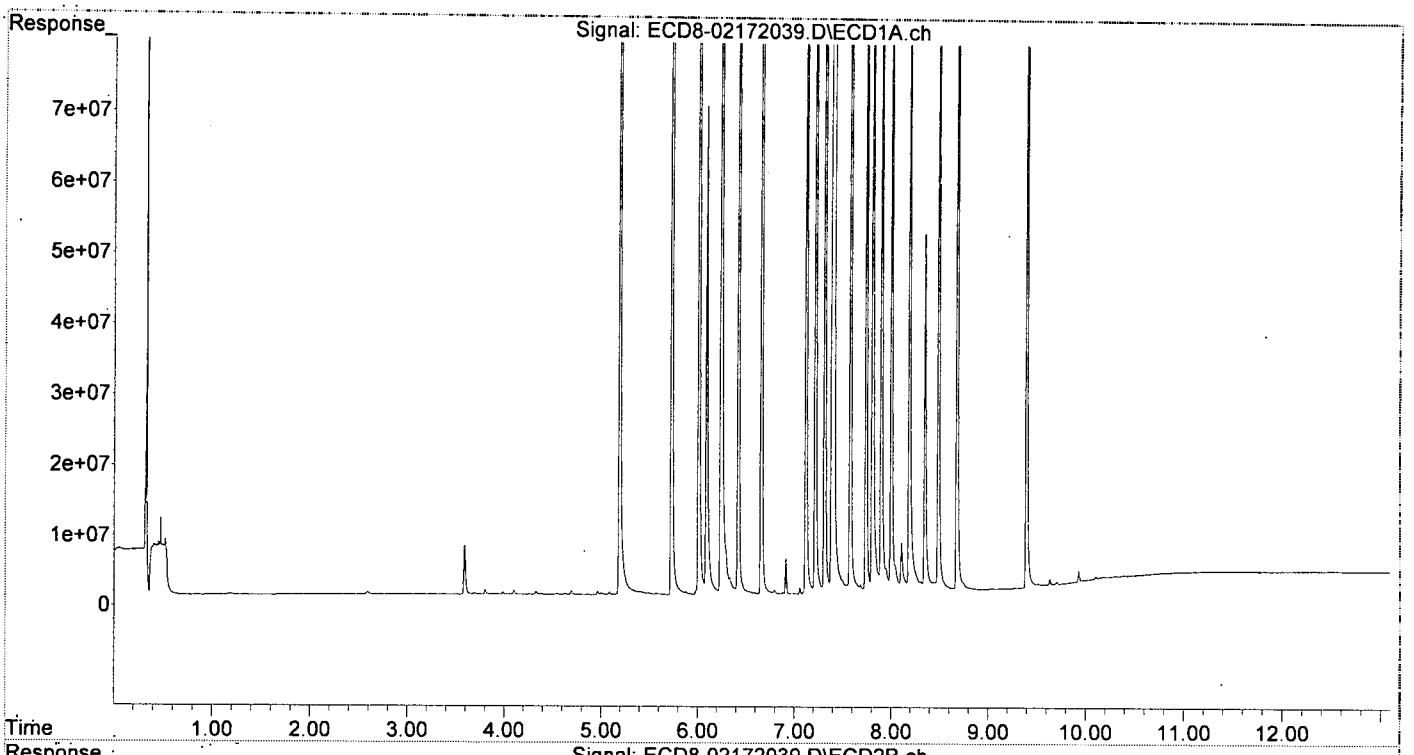
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.192	5.890	154.5E6	169.2E6	44.187	49.041	
22)	S	DCBP (S)	9.394	10.424	131.3E6	118.5E6	49.936	54.972	
		Target Compounds							
2)		a-BHC	5.728	6.492	237.6E6	255.7E6	50.283	54.287	
3)		g-BHC	6.011	6.810	205.4E6	216.9E6	49.328	51.455	
4)		b-BHC	6.090	6.876	69443640	77303807	39.872	44.529	
5)		Heptachlor	6.421	7.181	207.0E6	211.8E6	50.365	50.296	
6)		d-BHC	6.239	7.131	139.4E6	179.8E6	38.618	46.831	
7)		Aldrin	6.660	7.446	201.0E6	197.3E6	49.747	49.169	
8)		Heptachlo...	7.120	7.883	180.3E6	184.6E6	48.814	51.419	
9)		trans-Chl...	7.217	8.023	178.2E6	189.1E6	47.383	50.858	
10)		cis-Chlor...	7.314	8.130	182.0E6	176.4E6	49.555	50.077	
11)		Endosulfa...	7.407	8.180	185.3E6	174.3E6	53.425	52.750	
12)		4,4'-DDE	7.387	8.240	148.3E6	166.3E6	44.664	48.738	
13)		Dieldrin	7.579	8.381	189.1E6	190.2E6	49.595	50.638	
14)		Endrin	7.741	8.607	159.5E6	146.5E6	48.862	47.352	
15)		4,4'-DDD	7.806	8.655	114.7E6	134.3E6	45.087	50.665	
16)		Endosulfa...	7.899	8.755	137.3E6	146.4E6	45.912	50.827	
17)		4,4'-DDT	8.002	8.881	132.9E6	142.3E6	49.446	51.284	
18)		Endrin Al...	8.188	8.992	114.5E6	130.4E6	43.482	49.323	
19)		Endosulfa...	8.487	9.183	132.1E6	141.1E6	46.150	51.551	
20)		Methoxychlor	8.348	9.361	50895082	65067936	42.179	53.714	#
21)		Endrin Ke...	8.679	9.582	161.3E6	160.5E6	46.667	51.800	
23)		Hexachlor...	2.969	3.587	81214	39455	0.021	0.008	#
24)		Hexachlor...	5.572	6.350	267902	35843	0.080	BelowCal	#
25)		Oxychlordane	7.058	7.817	991196	70666	0.143	0.022	#
26)		2,4'-DDE	7.120f	8.023	180.3E6	189.1E6	77.964	83.199	
27)		trans-Non...	7.314	8.085	182.0E6	908141	49.637	0.252	#
28)		2,4'-DDD	7.545f	8.381	1181421	190.2E6	0.610	99.353	#
29)		2,4'-DDT	7.686	8.607	1132691	146.5E6	0.473	61.549	#
30)		cis-Nonac...	7.806f	8.655	114.7E6	134.3E6	28.197	33.698	
31)		Mirex	8.448	9.582	1192920	160.5E6	0.286	74.365	#
32)		Chlordane...	7.217	8.023	178.2E6	189.1E6	444.932	435.263	
33)		Chlordane...	7.314	8.130	182.0E6	176.4E6	374.191	485.218	#
34)		Chlordane...	7.899f	8.812	137.3E6	2227694	1054.916	18.759	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.314	8.381	182.0E6	190.2E6	11117.050	6453.921	#
37)		Toxaphene...	7.579	8.755f	189.1E6	146.4E6	6020.080	3643.684	#
38)		Toxaphene...	7.899	8.755	137.3E6	146.4E6	1988.824	2263.430	
39)		Toxaphene...	8.188f	8.812	114.5E6	2227694	1726.827	18.956	#
40)		Toxaphene...	8.348f	8.992	50895082	130.4E6	938.983	2274.507	#
41)		Toxaphene...	8.448	9.361	1192920	65067936	15.685	985.074	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

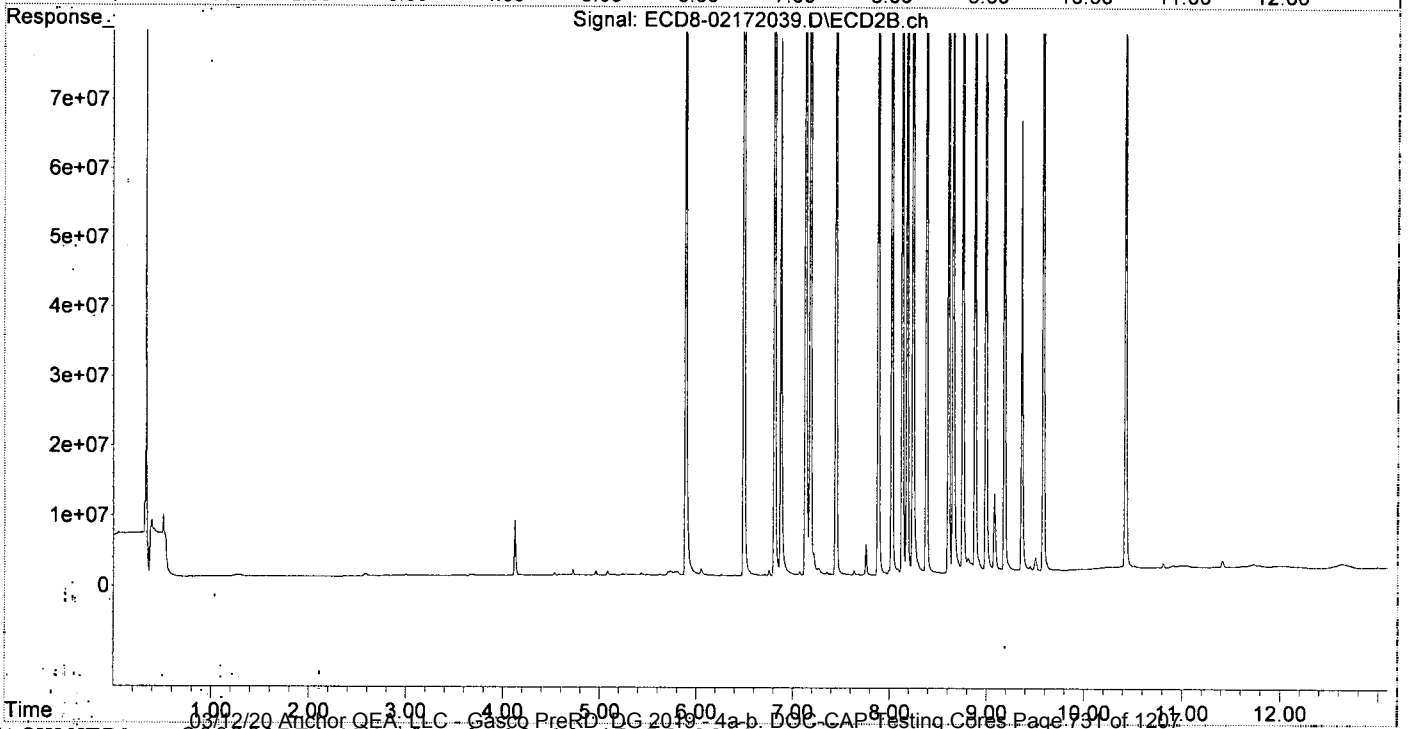
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 23:14
Operator : MJB
Sample : 0B17041-CCV5
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 10:47:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 23:31
Operator : MJB
Sample : 0B17041-CCV6
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 10:47:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

DTT 2/19/20

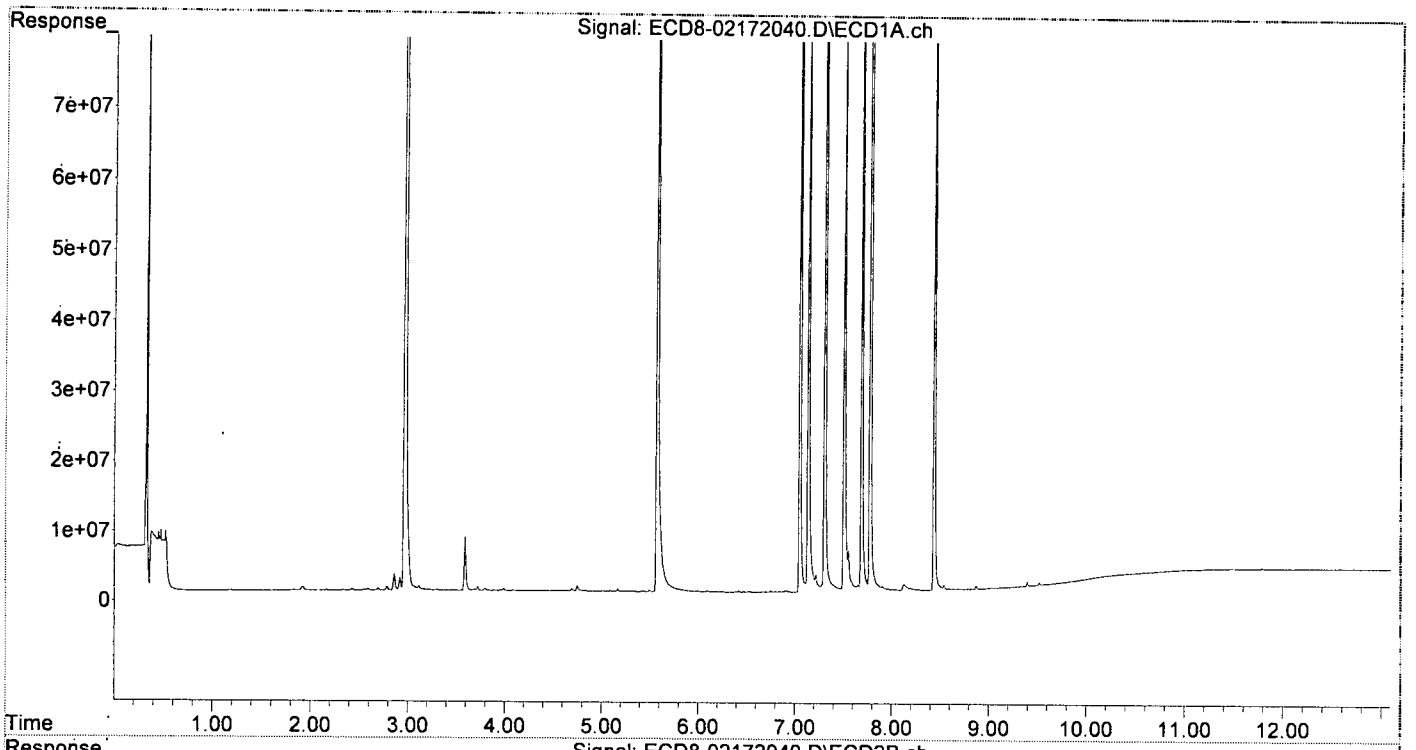
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.168f	5.910	361239	67162	0.103	0.019	#
22)	S	DCBP (S)	9.397	10.426	724035	1144190	BelowCal	0.059	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.815	0	19893	N.D.	0.047	#
4)		b-BHC	6.094	6.882	196561	55359	0.113	0.032	#
5)		Heptachlor	6.421	7.182	179974	175282	0.044	0.042	
6)		d-BHC	6.252	7.134	35153	55414	0.117	0.113	
7)		Aldrin	6.667	7.444	27511	21478	0.007	0.018	#
8)		Heptachlo...	7.137	7.881	105.4E6	664432	28.541	0.185	#
9)		trans-Chl...	7.218	8.019	2457600	114.5E6	0.654	30.794	#
10)		cis-Chlor...	7.308	0.000	184.9E6	0	50.350	N.D.	#
11)		Endosulfa...	0.000	8.179	0	404707	N.D.	0.122	#
12)		4,4'-DDE	0.000	8.225	0	230365	N.D.	0.162	#
13)		Dieldrin	7.553f	8.392	5894926	99284893	1.546	27.313	#
14)		Endrin	7.777f	8.614	203.0E6	121.3E6	62.195	39.680	#
15)		4,4'-DDD	7.777f	8.651	203.0E6	208.9E6	79.758	74.557	
16)		Endosulfa...	7.905	8.738f	664519	469878	0.222	0.148	#
17)		4,4'-DDT	8.003	8.909f	200144	62919	0.074	BelowCal	#
18)		Endrin Al...	8.192	8.996	326013	67730	0.124	0.026	#
19)		Endosulfa...	0.000	9.184	0	59299	N.D.	BelowCal	
20)		Methoxychlor	8.363	9.365	22429	91572	0.019	BelowCal	#
21)		Endrin Ke...	8.684	9.571	70059	121.8E6	0.020	40.060	#
23)		Hexachlor...	2.970	3.587	179.1E6	230.3E6	45.948	47.567	
24)		Hexachlor...	5.573	6.355	147.9E6	154.8E6	43.984	49.505	
25)		Oxychlordane	7.050	7.812	160.7E6	159.0E6	51.760	49.727	
26)		2,4'-DDE	7.137	8.019	105.4E6	114.5E6	45.585	50.376	
27)		trans-Non...	7.308	8.086	184.9E6	185.1E6	50.434	51.267	
28)		2,4'-DDD	7.508	8.392	85132260	99284893	43.955	51.865	
29)		2,4'-DDT	7.688	8.614	115.7E6	121.3E6	48.363	51.832	
30)		cis-Nonac...	7.777	8.651	203.0E6	208.9E6	49.879	52.419	
31)		Mirex	8.437	9.571	127.8E6	121.8E6	52.907	56.898	
32)		Chlordane...	7.218	8.019	2457600	114.5E6	6.137	263.547	#
33)		Chlordane...	7.308	8.179f	184.9E6	404707	380.195	1.113	#
34)		Chlordane...	7.905f	8.815	664519	1298958	5.104	10.938	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.308	8.392f	184.9E6	99284893	11295.430	3369.135	#
37)		Toxaphene...	0.000	8.738f	0	469878	N.D.	11.692	#
38)		Toxaphene...	7.905	8.738	664519	469878	6.281	7.263	
39)		Toxaphene...	8.131	8.815	888056	1298958	6.748	9.317	#
40)		Toxaphene...	8.363	8.996	22429	67730	0.414	1.181	#
41)		Toxaphene...	8.437	9.383	127.8E6	86162	1680.544	1.304	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

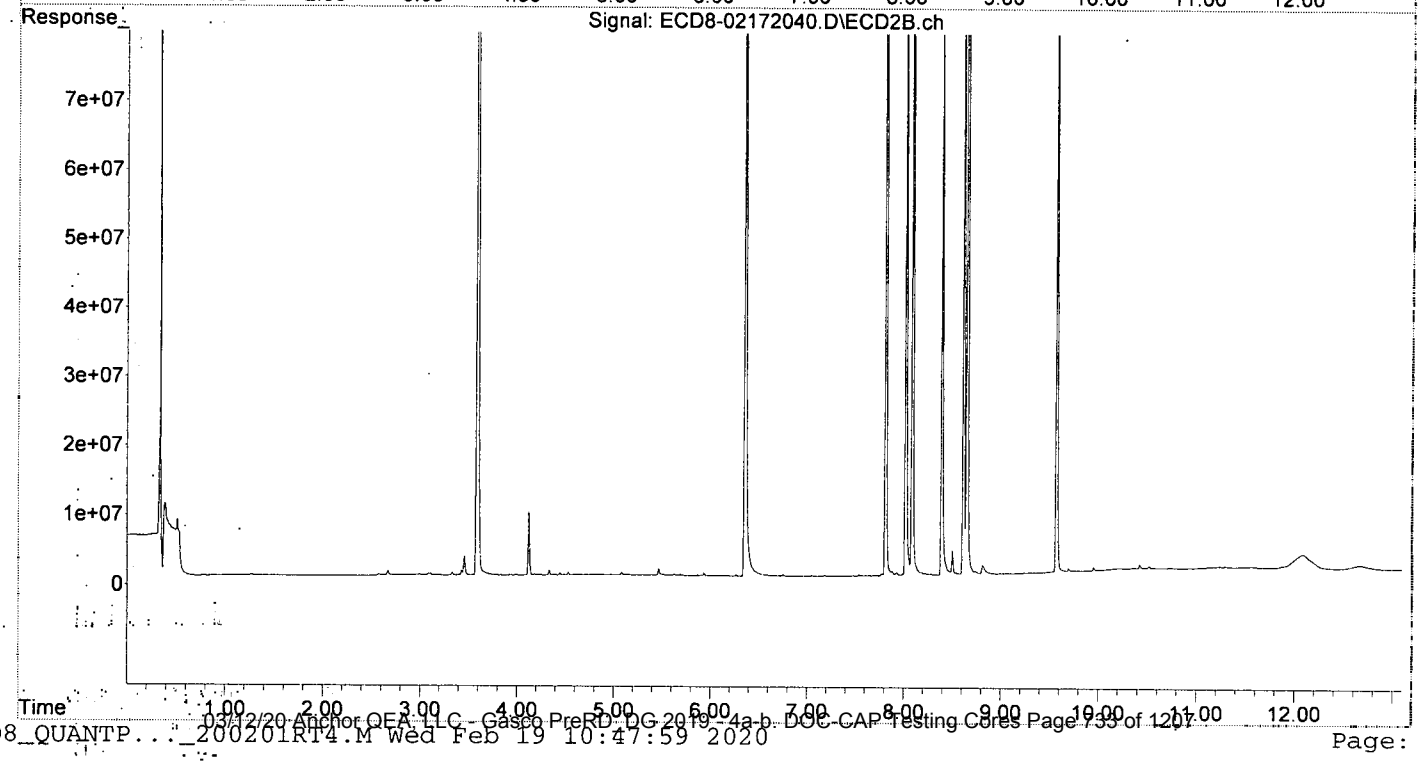
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 23:31
Operator : MJB
Sample : 0B17041-CCV6
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 10:47:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 23:48
Operator : MJB
Sample : 0B17041-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 10:48:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

DH 2/19/20

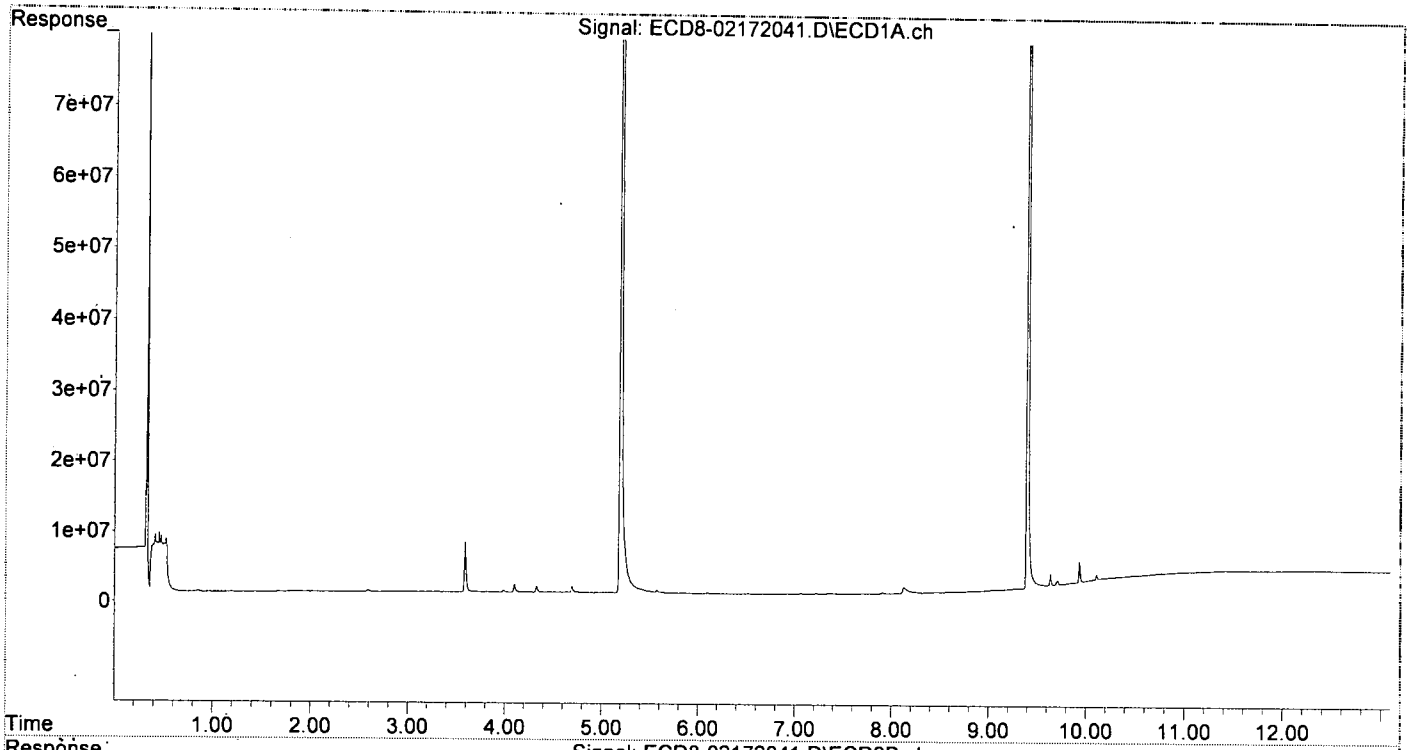
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.192	5.889	304.7E6	344.5E6	87.152	99.859	
22)	S	DCBP (S)	9.396	10.425	261.6E6	242.7E6	97.661	107.412	
		Target Compounds							
2)		a-BHC	0.000	6.464f	0	19638	N.D.	0.080	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.097	6.878	114049	13773	0.065	0.008	#
5)		Heptachlor	0.000	7.185	0	31349	N.D.	0.007	#
6)		d-BHC	0.000	7.139	0	31346	N.D.	0.106	#
7)		Aldrin	6.668	7.474f	20488	109836	0.005	0.041	#
8)		Heptachlo...	7.103f	7.881	14156	13428	0.004	0.004	
9)		trans-Chl...	7.220	8.030	108795	67754	0.029	0.018	#
10)		cis-Chlor...	7.325	8.159f	45572	25753	0.012	0.007	#
11)		Endosulfa...	7.392f	8.185	80418	21843	0.023	0.007	#
12)		4,4'-DDE	7.392	8.214f	80418	12332	0.024	0.092	#
13)		Dieldrin	7.577	8.376	20449	4751	0.005	0.034	#
14)		Endrin	7.776f	8.618	14506	18482	0.004	BelowCal	#
15)		4,4'-DDD	7.818	8.658	8546	15896	0.003	0.050	#
16)		Endosulfa...	7.907	8.776	208549	92539	0.070	0.005	#
17)		4,4'-DDT	8.005	0.000	8136	0	0.003	N.D.	#
18)		Endrin Al...	0.000	8.996	0	151759	N.D.	0.057	#
19)		Endosulfa...	8.494	9.165f	47494	112091	0.017	BelowCal	#
20)		Methoxychlor	8.353	9.362	68680	251500	0.057	BelowCal	#
21)		Endrin Ke...	8.686	9.585	40458	408025	0.012	BelowCal	#
23)		Hexachlor...	2.972	3.607	72417	68811	0.019	0.014	
24)		Hexachlor...	5.574	6.348	337799	49311	0.100	BelowCal	#
25)		Oxychlordane	7.063	7.815	188976	26359	BelowCal	0.008	
26)		2,4'-DDE	7.103f	8.030	14156	67754	0.006	0.030	#
27)		trans-Non...	7.315	8.074	55248	183683	0.015	0.051	#
28)		2,4'-DDD	0.000	8.376	0	4751	N.D.	0.002	#
29)		2,4'-DDT	7.692	8.618	17125	18482	0.007	BelowCal	#
30)		cis-Nonac...	7.776	8.658	14506	15896	0.004	0.004	
31)		Mirex	8.452	9.585	54549	408025	8199.106	BelowCal	#
32)		Chlordane...	7.244	8.030	35686	67754	0.089	0.156	#
33)		Chlordane...	7.325	8.159	45572	25753	0.094	0.071	
34)		Chlordane...	7.875	8.815	7062	1338098	0.054	11.268	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.315	8.376	55248	4751	3.375	0.161	#
37)		Toxaphene...	7.577f	8.741f	20449	254782	0.651	6.340	#
38)		Toxaphene...	7.907	8.741	208549	254782	96750.974	3.938	#
39)		Toxaphene...	8.131	8.815	846200	1338098	6.103	9.724	#
40)		Toxaphene...	8.373	8.996	65458	151759	1.208	2.647	#
41)		Toxaphene...	8.437	9.362	51569	251500	0.678	3.808	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

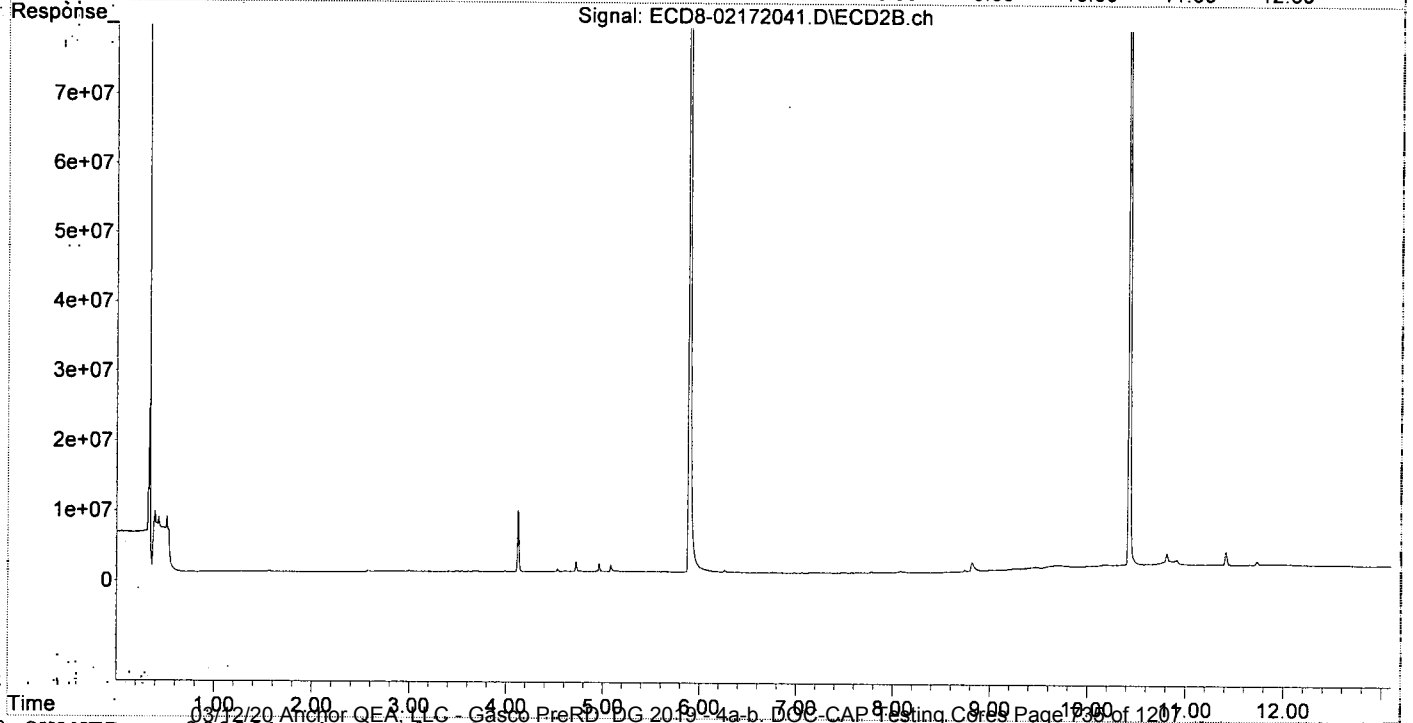
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B17041\
Data File : ECD8-02172041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Feb 2020 23:48
Operator : MJB
Sample : 0B17041-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 19 10:48:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT4.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Organochloride Pesticides by EPA 8081B
Calibration Data

Sequence 0B01012 (Cal ID A0B0404) DualECD8

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B01012** Instrument: **DUALECD8**

Date: **02/01/20 13:45** Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B01012-BKD1	Water	QC	QC				A20A019
2	0B01012-ICB1	Water	QC	QC				A20A395
3	0B01012-CAL1	Water	QC	QC				A20B001
4	0B01012-CAL2	Water	QC	QC				A20B002
5	0B01012-CAL3	Water	QC	QC				A19K128
6	0B01012-CAL4	Water	QC	QC				A19K130
7	0B01012-CAL5	Water	QC	QC				A19K131
8	0B01012-CAL6	Water	QC	QC				A19K132
9	0B01012-CAL7	Water	QC	QC				A19K133
10	0B01012-CAL8	Water	QC	QC				A19K134
11	0B01012-CAL9	Water	QC	QC				A19K126
12	0B01012-IBL1	Water	QC	QC				
13	0B01012-ICV1	Water	QC	QC				A19I209
14	0B01012-CALA	Water	QC	QC				A20B003
15	0B01012-CALB	Water	QC	QC				A19K263
16	0B01012-CALC	Water	QC	QC				A19K264
17	0B01012-CALD	Water	QC	QC				A19K265
18	0B01012-CALE	Water	QC	QC				A19K266
19	0B01012-CALF	Water	QC	QC				A19J407
20	0B01012-CALG	Water	QC	QC				A19J408
21	0B01012-CALH	Water	QC	QC				A19J409
22	0B01012-CALI	Water	QC	QC				A19K262
23	0B01012-IBL2	Water	QC	QC				
24	0B01012-ICV2	Water	QC	QC				A19J410
25	0B01012-CALJ	Water	QC	QC				A20B004
26	0B01012-CALK	Water	QC	QC				A19K307
27	0B01012-CALL	Water	QC	QC				A19K308
28	0B01012-CALM	Water	QC	QC				A19K309
29	0B01012-CALN	Water	QC	QC				A19K310
30	0B01012-CALO	Water	QC	QC				A19K311
31	0B01012-CALP	Water	QC	QC				A19K306
32	0B01012-IBL3	Water	QC	QC				
33	0B01012-ICV3	Water	QC	QC				A19K312
34	0B01012-CALQ	Water	QC	QC				A20B005
35	0B01012-CALR	Water	QC	QC				A19J417
36	0B01012-CALS	Water	QC	QC				A19J418
37	0B01012-CALT	Water	QC	QC				A19J419
38	0B01012-CALU	Water	QC	QC				A19J420
39	0B01012-CALV	Water	QC	QC				A19J421
40	0B01012-CALW	Water	QC	QC				A19J416
41	0B01012-IBL4	Water	QC	QC				
42	0B01012-ICV4	Water	QC	QC				A19J422

Data Entered By: MR 2/4/20

Comments: ±CAL

Data Reviewed By: MR 2/5/20

Calibration Status Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

A0B0404

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012036.D
2	2	50	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012037.D
3	3	100	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012038.D
4	4	200	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012039.D
5	5	500	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012040.D
6	6	1000	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012041.D
7	7	2000	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012042.D
8	8	-1	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012023.D
9	9	-1	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012024.D

MJB 2/3/20

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Feb 03 15:36 2020	Feb 03 15:28 2020	2 Feb 2020 00:08
2	2	Feb 03 15:36 2020	Feb 03 15:29 2020	2 Feb 2020 00:24
3	3	Feb 03 15:36 2020	Feb 03 15:29 2020	2 Feb 2020 00:41
4	4	Feb 03 15:36 2020	Feb 03 15:30 2020	2 Feb 2020 00:58
5	5	Feb 03 15:36 2020	Feb 03 15:27 2020	2 Feb 2020 1:15
6	6	Feb 03 15:36 2020	Feb 03 15:31 2020	2 Feb 2020 1:32
7	7	Feb 03 15:36 2020	Feb 03 15:31 2020	2 Feb 2020 1:48
8	8	Feb 03 15:34 2020	Feb 03 15:20 2020	1 Feb 2020 20:29
9	9	Feb 03 15:34 2020	Feb 03 15:20 2020	1 Feb 2020 20:46

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:20 2020

Calibration Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD8-02012036 2 =ECD8-02012037 3 =ECD8-02012038 4 =ECD8-02012039 5 =ECD8-02

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	3.4961 e6	-----	0.0749
2)		a-BHC	Avg	-----	4.7246 e6	-----	0.0457
3)		g-BHC	Avg	-----	4.1634 e6	-----	0.0350
4)		b-BHC	Avg	-----	1.7416 e6	-----	0.0471
5)		Heptachlor	Avg	-----	4.1100 e6	-----	0.0402
6)		d-BHC	Quad	-3.6787 e5	3.4533 e6	4.2814 e3	0.9964
7)		Aldrin	Avg	-----	4.0406 e6	-----	0.0283
8)		Heptachlor Expoxide	Avg	-----	3.6928 e6	-----	0.0542
9)		trans-Chlordane	Avg	-----	3.7605 e6	-----	0.0398
10)		cis-Chlordane	Avg	-----	3.6723 e6	-----	0.0621
11)		Endosulfan I	Avg	-----	3.4687 e6	-----	0.0507
12)		4,4'-DDE	Avg	-----	3.3208 e6	-----	0.0744
13)		Dieldrin	Avg	-----	3.8134 e6	-----	0.0343
14)		Endrin	Avg	-----	3.2636 e6	-----	0.0315
15)		4,4'-DDD	Avg	-----	2.5450 e6	-----	0.0979
16)		Endosulfan II	Avg	-----	2.9916 e6	-----	0.0649
17)		4,4'-DDT	Avg	-----	2.6882 e6	-----	0.0889
18)		Endrin Aldehyde	Avg	-----	2.6327 e6	-----	0.0812
19)		Endosulfan Sulfate	Avg	-----	2.8622 e6	-----	0.0519
20)		Methoxychlor	Avg	-----	1.2066 e6	-----	0.0820
21)		Endrin Ketone	Avg	-----	3.4564 e6	-----	0.0521
22)	S	DCBP (S)	Quad	8.5493 e5	2.5533 e6	1.1956 e3	0.9987
23)		Hexachlorobutadiene	Avg	-----	3.8982 e6	-----	0.0867
24)		Hexachlorobenzene	Avg	-----	3.3616 e6	-----	0.0588
25)		Oxychlordane	Quad	5.5211 e5	3.0698 e6	4.6404 e2	0.9988
26)		2,4'-DDE	Avg	-----	2.3121 e6	-----	0.0585
27)		trans-Nonachlor	Avg	-----	3.6662 e6	-----	0.0810
28)		2,4'-DDD	Avg	-----	1.9368 e6	-----	0.0779
29)		2,4'-DDT	Avg	-----	2.3931 e6	-----	0.0804
30)		cis-Nonachlor	Avg	-----	4.0695 e6	-----	0.0640
31)		Mirex	Quad	5.0001 e5	2.4220 e6	-2.9540 e2	0.9974
32)		Chlordane (1)	Avg	-----	4.0048 e5	-----	0.0330
33)		Chlordane (2)	Avg	-----	4.8633 e5	-----	0.0407
34)		Chlordane (3)	Avg	-----	1.3020 e5	-----	0.0619
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	1.6369 e4	-----	0.0553
37)		Toxaphene (2)	Avg	-----	3.1415 e4	-----	0.0831
38)		Toxaphene (3)	Quad	2.2243 e5	7.0395 e4	-0.7276	0.9981
39)		Toxaphene (4)	Quad	4.5032 e5	6.4862 e4	0.6759	0.9982
40)		Toxaphene (5)	Avg	-----	5.4202 e4	-----	0.0528
41)		Toxaphene (6)	Avg	-----	7.6054 e4	-----	0.0615
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

MJB 2/3/20

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	3.4496 e6	-----	0.0965
2)		a-BHC	Quad	-3.2343 e5	4.2664 e6	8.2745 e3	0.9960
3)		g-BHC	Quad	-1.6434 e5	3.9019 e6	6.1477 e3	0.9964
4)		b-BHC	Avg	-----	1.7361 e6	-----	0.0812
5)		Heptachlor	Avg	-----	4.2108 e6	-----	0.0897
6)		d-BHC	Quad	-3.4135 e5	3.4999 e6	7.3816 e3	0.9930
7)		Aldrin	Quad	-4.5141 e4	3.7409 e6	5.5614 e3	0.9964

8)		Heptachlor Expoxide	Avg	-----	3.5897 e6	-----	0.0770
9)		trans-Chlordane	Avg	-----	3.7184 e6	-----	0.0875
10)		cis-Chlordane	Avg	-----	3.5227 e6	-----	0.0870
11)		Endosulfan I	Avg	-----	3.3050 e6	-----	0.0966
12)		4,4'-DDE	Quad	-2.7421 e5	3.1100 e6	6.3174 e3	0.9963
13)		Dieldrin	Quad	-1.1278 e5	3.5000 e6	5.0969 e3	0.9973
14)		Endrin	Quad	2.1691 e4	2.8712 e6	4.6829 e3	0.9979
15)		4,4'-DDD	Quad	-1.0007 e5	2.3331 e6	6.3054 e3	0.9950
16)		Endosulfan II	Quad	8.0342 e4	2.6351 e6	4.8093 e3	0.9962
17)		4,4'-DDT	Quad	6.2935 e4	2.4488 e6	6.3238 e3	0.9944
18)		Endrin Aldehyde	Avg	-----	2.6437 e6	-----	0.1032
19)		Endosulfan Sulfate	Quad	2.2237 e5	2.4980 e6	4.5656 e3	0.9966
20)		Methoxychlor	Quad	3.9664 e5	1.0572 e6	2.7326 e3	0.9885
21)		Endrin Ketone	Quad	6.2899 e5	2.8167 e6	5.2103 e3	0.9947
22)	S	DCBP (S)	Quad	1.0261 e6	2.0175 e6	2.1659 e3	0.9907
23)		Hexachlorobutadiene	Avg	-----	4.8419 e6	-----	0.0604
24)		Hexachlorobenzene	Quad	1.5728 e5	2.8673 e6	5.1735 e3	0.9980
25)		Oxychlordane	Avg	-----	3.1981 e6	-----	0.0855
26)		2,4'-DDE	Avg	-----	2.2730 e6	-----	0.0865
27)		trans-Nonachlor	Avg	-----	3.6095 e6	-----	0.0771
28)		2,4'-DDD	Avg	-----	1.9143 e6	-----	0.0953
29)		2,4'-DDT	Quad	1.0467 e5	2.1282 e6	4.0612 e3	0.9981
30)		cis-Nonachlor	Avg	-----	3.9852 e6	-----	0.0818
31)		Mirex	Quad	5.2228 e5	2.0685 e6	1.1146 e3	0.9931
32)		Chlordane (1)	Avg	-----	4.3448 e5	-----	0.0655
33)		Chlordane (2)	Avg	-----	3.6356 e5	-----	0.0725
34)		Chlordane (3)	Avg	-----	1.1876 e5	-----	0.0531
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	2.9469 e4	-----	0.0522
37)		Toxaphene (2)	Avg	-----	4.0189 e4	-----	0.0698
38)		Toxaphene (3)	Avg	-----	6.4696 e4	-----	0.0605
39)		Toxaphene (4)	Quad	4.0242 e5	9.6156 e4	7.1704	0.9972
40)		Toxaphene (5)	Avg	-----	5.7329 e4	-----	0.0545
41)		Toxaphene (6)	Avg	-----	6.6054 e4	-----	0.0754
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:39 2020

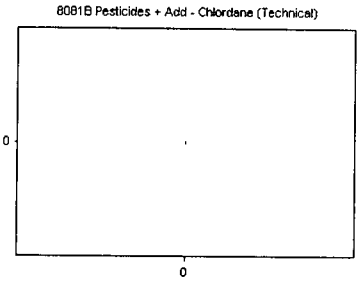
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

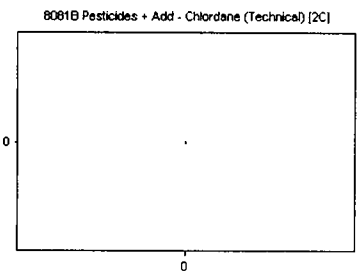


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

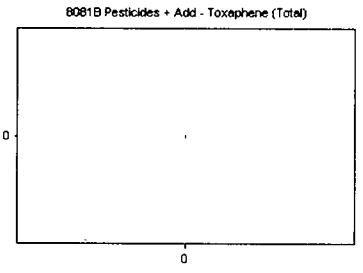


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

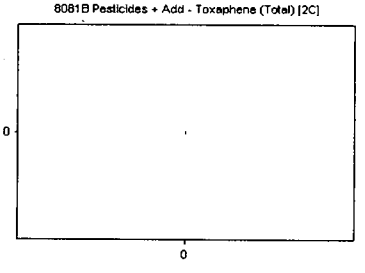


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

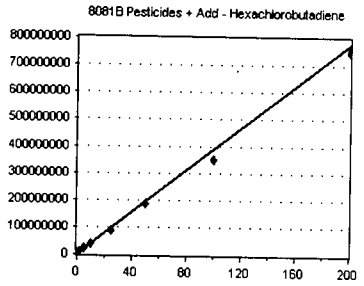
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**

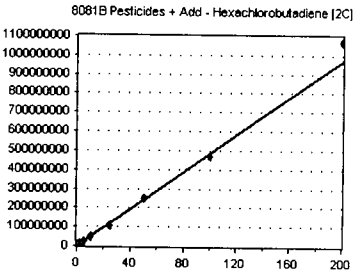


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2278541	4557082.000	3.08
0B01012-CALB	1	4206156	4206156.000	3.08
0B01012-CALC	2	7973044	3986522.000	3.08
0B01012-CALD	5	2.000834E+07	4001668.000	3.08
0B01012-CALE	10	3.837758E+07	3837758.000	3.08
0B01012-CALF	25	8.728258E+07	3491303.000	3.08
0B01012-CALG	50	1.865705E+08	3731410.000	3.08
0B01012-CALH	100	3.510147E+08	3510147.000	3.08
0B01012-CALI	200	7.522633E+08	3761317.000	3.08

AVE RF **3898151.000** RF RSD **8.67** AVE RT **3.08**

Hexachlorobutadiene [2C]

Curve Fit: **AVERAGE RF**

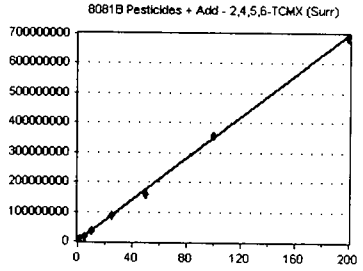


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2594123	5188246.000	3.68
0B01012-CALB	1	4878910	4878910.000	3.68
0B01012-CALC	2	9306742	4653371.000	3.68
0B01012-CALD	5	2.374866E+07	4749732.000	3.68
0B01012-CALE	10	4.708842E+07	4708842.000	3.68
0B01012-CALF	25	1.09599E+08	4383960.000	3.68
0B01012-CALG	50	2.49172E+08	4983440.000	3.68
0B01012-CALH	100	4.690606E+08	4690606.000	3.68
0B01012-CALI	200	1.06808E+09	5340400.000	3.68

AVE RF **4841945.000** RF RSD **6.04** AVE RT **3.68**

2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

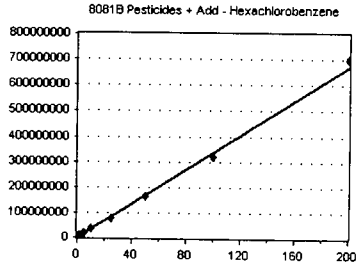


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2010387	4020774.000	5.30
0B01012-CAL2	1	3713760	3713760.000	5.30
0B01012-CAL3	2	7209311	3604656.000	5.30
0B01012-CAL4	5	1.60812E+07	3216240.000	5.30
0B01012-CAL5	10	3.30315E+07	3303150.000	5.30
0B01012-CAL6	25	8.582981E+07	3433192.000	5.30
0B01012-CAL7	50	1.601967E+08	3203934.000	5.30
0B01012-CAL8	100	3.554214E+08	3554214.000	5.30
0B01012-CAL9	200	6.830236E+08	3415118.000	5.30

AVE RF **3496115.000** RF RSD **7.49** AVE RT **5.30**

Hexachlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1894604	3789208.000	5.68
0B01012-CALB	1	3451879	3451879.000	5.68
0B01012-CALC	2	6640927	3320464.000	5.68
0B01012-CALD	5	1.644726E+07	3289452.000	5.68
0B01012-CALE	10	3.26479E+07	3264790.000	5.68
0B01012-CALF	25	7.79427E+07	3117708.000	5.68
0B01012-CALG	50	1.657174E+08	3314348.000	5.68
0B01012-CALH	100	3.205595E+08	3205595.000	5.68
0B01012-CALI	200	7.002122E+08	3501061.000	5.68

AVE RF **3361612.000** RF RSD **5.88** AVE RT **5.68**

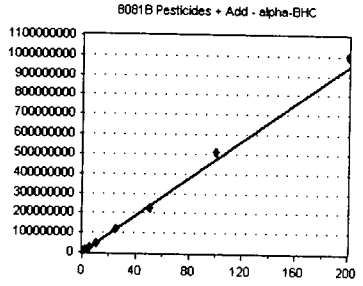
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

alpha-BHC

Curve Fit: **AVERAGE RF**

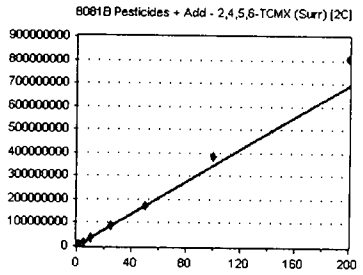


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2323532	4647064.000	5.84
0B01012-CAL2	1	4491787	4491787.000	5.84
0B01012-CAL3	2	9150524	4575262.000	5.84
0B01012-CAL4	5	2.346608E+07	4693216.000	5.84
0B01012-CAL5	10	4.655607E+07	4655607.000	5.84
0B01012-CAL6	25	1.216262E+08	4865048.000	5.84
0B01012-CAL7	50	2.248693E+08	4497386.000	5.84
0B01012-CAL8	100	5.093932E+08	5093932.000	5.84
0B01012-CAL9	200	1.00038E+09	5001900.000	5.84

AVE RF **4724578.000** RF RSD **4.57** AVE RT **5.84**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**

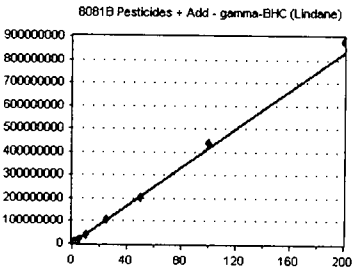


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1807457	3614914.000	5.98
0B01012-CAL2	1	3325610	3325610.000	5.98
0B01012-CAL3	2	6464924	3232462.000	5.98
0B01012-CAL4	5	1.503127E+07	3006254.000	5.98
0B01012-CAL5	10	3.1881E+07	3188100.000	5.98
0B01012-CAL6	25	8.514933E+07	3405973.000	5.98
0B01012-CAL7	50	1.682853E+08	3365706.000	5.98
0B01012-CAL8	100	3.864483E+08	3864483.000	5.98
0B01012-CAL9	200	8.08498E+08	4042490.000	5.98

AVE RF **3449555.000** RF RSD **9.65** AVE RT **5.98**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

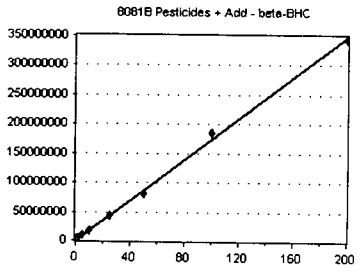


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2098226	4196452.000	6.12
0B01012-CAL2	1	3995270	3995270.000	6.12
0B01012-CAL3	2	8103069	4051535.000	6.12
0B01012-CAL4	5	2.061784E+07	4123568.000	6.12
0B01012-CAL5	10	4.042996E+07	4042996.000	6.12
0B01012-CAL6	25	1.057196E+08	4228784.000	6.12
0B01012-CAL7	50	2.032709E+08	4065418.000	6.12
0B01012-CAL8	100	4.359327E+08	4359327.000	6.12
0B01012-CAL9	200	8.814611E+08	4407306.000	6.12

AVE RF **4163406.000** RF RSD **3.50** AVE RT **6.12**

beta-BHC

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	943381	1886762.000	6.20
0B01012-CAL2	1	1736591	1736591.000	6.20
0B01012-CAL3	2	3435299	1717650.000	6.20
0B01012-CAL4	5	8638547	1727709.000	6.20
0B01012-CAL5	10	1.657155E+07	1657155.000	6.20
0B01012-CAL6	25	4.326881E+07	1730752.000	6.20
0B01012-CAL7	50	8.18664E+07	1637328.000	6.20
0B01012-CAL8	100	1.858015E+08	1858015.000	6.20
0B01012-CAL9	200	3.445661E+08	1722831.000	6.20

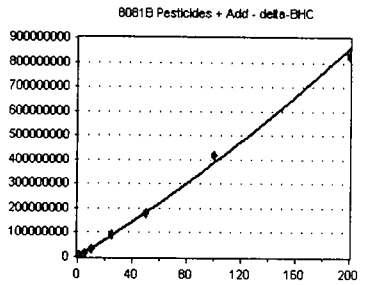
AVE RF **1741644.000** RF RSD **4.71** AVE RT **6.20**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

delta-BHC

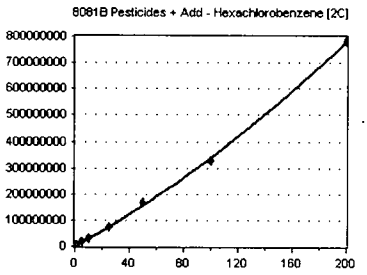


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1446613	2893226.000	6.35
0B01012-CAL2	1	2800163	2800163.000	6.35
0B01012-CAL3	2	6356662	3178331.000	6.35
0B01012-CAL4	5	1.671825E+07	3343650.000	6.35
0B01012-CAL5	10	3.397214E+07	3397214.000	6.35
0B01012-CAL6	25	9.370087E+07	3748035.000	6.35
0B01012-CAL7	50	1.824065E+08	3648130.000	6.35
0B01012-CAL8	100	4.199344E+08	4199344.000	6.35
0B01012-CAL9	200	8.262515E+08	4131258.000	6.34

AVE RF **3482150.000** RF RSD **14.23** AVE RT **6.35**

Hexachlorobenzene [2C]

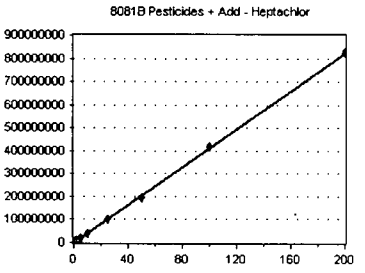


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1616133	3232266.000	6.45
0B01012-CALB	1	2946247	2946247.000	6.45
0B01012-CALC	2	5773353	2886677.000	6.45
0B01012-CALD	5	1.541107E+07	3082214.000	6.45
0B01012-CALE	10	2.852539E+07	2852539.000	6.45
0B01012-CALF	25	7.228214E+07	2891286.000	6.45
0B01012-CALG	50	1.685388E+08	3370776.000	6.45
0B01012-CALH	100	3.276458E+08	3276458.000	6.45
0B01012-CALI	200	7.824725E+08	3912363.000	6.45

AVE RF **3161203.000** RF RSD **10.74** AVE RT **6.45**

Heptachlor

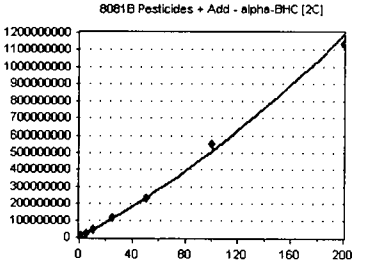


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2213636	4427272.000	6.53
0B01012-CAL2	1	4223019	4223019.000	6.53
0B01012-CAL3	2	8104217	4052109.000	6.53
0B01012-CAL4	5	2.000274E+07	4000548.000	6.53
0B01012-CAL5	10	3.990009E+07	3990009.000	6.53
0B01012-CAL6	25	1.037632E+08	4150528.000	6.53
0B01012-CAL7	50	1.922788E+08	3845576.000	6.53
0B01012-CAL8	100	4.162827E+08	4162827.000	6.53
0B01012-CAL9	200	8.275412E+08	4137706.000	6.53

AVE RF **4109955.000** RF RSD **4.02** AVE RT **6.53**

alpha-BHC [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1906806	3813612.000	6.59
0B01012-CAL2	1	3754344	3754344.000	6.59
0B01012-CAL3	2	7591226	3795613.000	6.59
0B01012-CAL4	5	2.025052E+07	4050104.000	6.59
0B01012-CAL5	10	4.3487E+07	4348700.000	6.59
0B01012-CAL6	25	1.19197E+08	4767880.000	6.58
0B01012-CAL7	50	2.3331E+08	4666200.000	6.59
0B01012-CAL8	100	5.537284E+08	5537284.000	6.59
0B01012-CAL9	200	1.133362E+09	5666810.000	6.59

AVE RF **4488950.000** RF RSD **16.30** AVE RT **6.58**

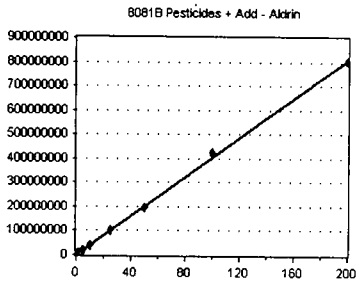
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Aldrin

Curve Fit: **AVERAGE RF**

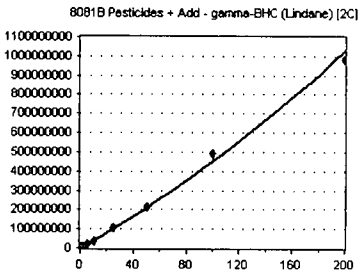


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2117773	4235546.000	6.77
0B01012-CAL2	1	4023063	4023063.000	6.77
0B01012-CAL3	2	7878680	3939340.000	6.77
0B01012-CAL4	5	2.002148E+07	4004296.000	6.77
0B01012-CAL5	10	3.955333E+07	3955333.000	6.77
0B01012-CAL6	25	1.019187E+08	4076748.000	6.77
0B01012-CAL7	50	1.954616E+08	3909232.000	6.77
0B01012-CAL8	100	4.209087E+08	4209087.000	6.77
0B01012-CAL9	200	8.024639E+08	4012319.000	6.77

AVE RF **4040552.000** RF RSD **2.83** AVE RT **6.77**

gamma-BHC (Lindane) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

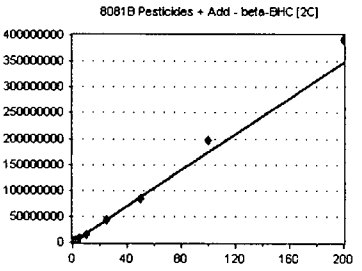


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1857818	3715636.000	6.90
0B01012-CAL2	1	3614287	3614287.000	6.90
0B01012-CAL3	2	7144289	3572145.000	6.90
0B01012-CAL4	5	1.890369E+07	3780738.000	6.90
0B01012-CAL5	10	3.851699E+07	3851699.000	6.90
0B01012-CAL6	25	1.078528E+08	4314112.000	6.90
0B01012-CAL7	50	2.118249E+08	4236498.000	6.90
0B01012-CAL8	100	4.912682E+08	4912682.000	6.90
0B01012-CAL9	200	9.803349E+08	4901675.000	6.90

AVE RF **4099941.000** RF RSD **12.77** AVE RT **6.90**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

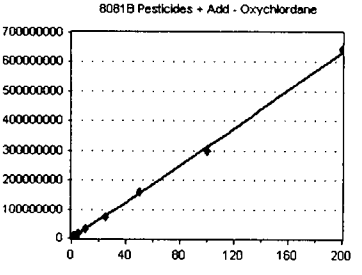


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	871353	1742706.000	6.97
0B01012-CAL2	1	1672509	1672509.000	6.97
0B01012-CAL3	2	3394908	1697454.000	6.97
0B01012-CAL4	5	7798279	1559656.000	6.97
0B01012-CAL5	10	1.605662E+07	1605662.000	6.97
0B01012-CAL6	25	4.282634E+07	1713054.000	6.97
0B01012-CAL7	50	8.529623E+07	1705925.000	6.97
0B01012-CAL8	100	1.968101E+08	1968101.000	6.97
0B01012-CAL9	200	3.918805E+08	1959403.000	6.97

AVE RF **1736052.000** RF RSD **8.12** AVE RT **6.97**

Oxychlordane

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2078442	4156884.000	7.16
0B01012-CALB	1	3626338	3626338.000	7.16
0B01012-CALC	2	6769962	3384981.000	7.16
0B01012-CALD	5	1.61843E+07	3236860.000	7.16
0B01012-CALE	10	3.1984E+07	3198400.000	7.16
0B01012-CALF	25	7.299099E+07	2919640.000	7.16
0B01012-CALG	50	1.605089E+08	3210178.000	7.16
0B01012-CALH	100	2.998338E+08	2998338.000	7.16
0B01012-CALI	200	6.436567E+08	3218284.000	7.16

AVE RF **3327767.000** RF RSD **11.17** AVE RT **7.16**

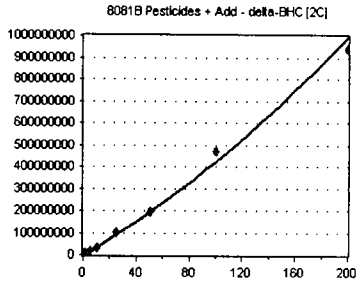
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

delta-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

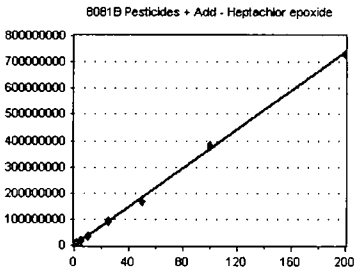


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1525163	3050326.000	7.22
0B01012-CAL2	1	2821743	2821743.000	7.22
0B01012-CAL3	2	6360084	3180042.000	7.22
0B01012-CAL4	5	1.628615E+07	3257230.000	7.22
0B01012-CAL5	10	3.455671E+07	3455671.000	7.22
0B01012-CAL6	25	1.009439E+08	4037756.000	7.22
0B01012-CAL7	50	1.92918E+08	3858360.000	7.22
0B01012-CAL8	100	4.722036E+08	4722036.000	7.22
0B01012-CAL9	200	9.396505E+08	4698253.000	7.22

AVE RF **3675713.000** RF RSD **18.98** AVE RT **7.22**

Heptachlor epoxide

Curve Fit: **AVERAGE RF**

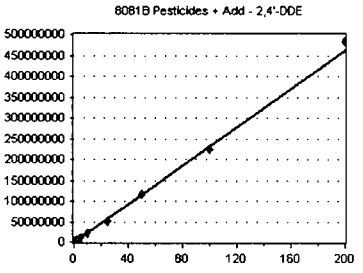


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2037408	4074816.000	7.23
0B01012-CAL2	1	3849968	3849968.000	7.23
0B01012-CAL3	2	7310938	3655469.000	7.23
0B01012-CAL4	5	1.821124E+07	3642248.000	7.23
0B01012-CAL5	10	3.556183E+07	3556183.000	7.23
0B01012-CAL6	25	9.060382E+07	3624153.000	7.23
0B01012-CAL7	50	1.681536E+08	3363072.000	7.23
0B01012-CAL8	100	3.806447E+08	3806447.000	7.23
0B01012-CAL9	200	7.32596E+08	3662980.000	7.23

AVE RF **3692815.000** RF RSD **5.42** AVE RT **7.23**

2,4'-DDE

Curve Fit: **AVERAGE RF**

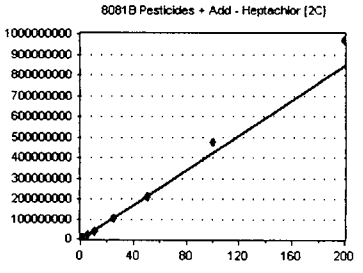


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1290069	2580138.000	7.24
0B01012-CALB	1	2295081	2295081.000	7.24
0B01012-CALC	2	4488919	2244460.000	7.24
0B01012-CALD	5	1.174373E+07	2348746.000	7.24
0B01012-CALE	10	2.280436E+07	2280436.000	7.24
0B01012-CALF	25	5.220238E+07	2088095.000	7.24
0B01012-CALG	50	1.163594E+08	2327188.000	7.24
0B01012-CALH	100	2.230456E+08	2230456.000	7.24
0B01012-CALI	200	4.828511E+08	2414256.000	7.24

AVE RF **2312095.000** RF RSD **5.85** AVE RT **7.24**

Heptachlor [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2166906	4333812.000	7.28
0B01012-CAL2	1	4011938	4011938.000	7.28
0B01012-CAL3	2	7612959	3806480.000	7.28
0B01012-CAL4	5	1.937156E+07	3874312.000	7.28
0B01012-CAL5	10	3.874349E+07	3874349.000	7.28
0B01012-CAL6	25	1.044734E+08	4178936.000	7.27
0B01012-CAL7	50	2.108814E+08	4217628.000	7.28
0B01012-CAL8	100	4.769755E+08	4769755.000	7.28
0B01012-CAL9	200	9.660228E+08	4830114.000	7.28

AVE RF **4210814.000** RF RSD **8.97** AVE RT **7.28**

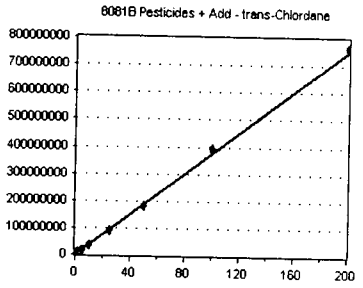
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

trans-Chlordane

Curve Fit: **AVERAGE RF**

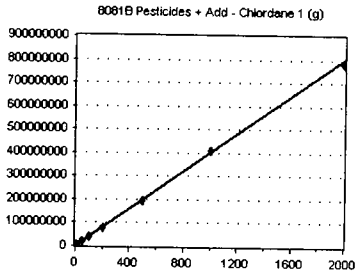


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2006872	4013744.000	7.33
0B01012-CAL2	1	3865919	3865919.000	7.33
0B01012-CAL3	2	7233767	3616884.000	7.33
0B01012-CAL4	5	1.816404E+07	3632808.000	7.33
0B01012-CAL5	10	3.64511E+07	3645110.000	7.33
0B01012-CAL6	25	9.234463E+07	3693785.000	7.33
0B01012-CAL7	50	1.813409E+08	3626818.000	7.33
0B01012-CAL8	100	3.927507E+08	3927507.000	7.33
0B01012-CAL9	200	7.644719E+08	3822359.000	7.33

AVE RF **3760548.000** RF RSD **3.98** AVE RT **7.33**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

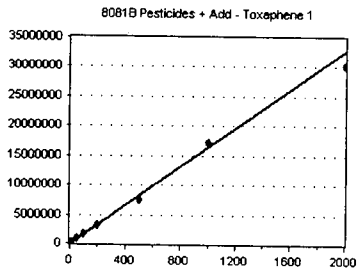


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	4222162	422216.200	7.33
0B01012-CALK	50	1.933186E+07	386637.200	7.33
0B01012-CALL	100	4.098202E+07	409820.200	7.33
0B01012-CALM	200	7.983398E+07	399169.900	7.33
0B01012-CALN	500	1.942334E+08	388466.800	7.33
0B01012-CALO	1000	4.070686E+08	407068.600	7.33
0B01012-CALP	2000	7.799603E+08	389980.200	7.33

AVE RF **400479.900** RF RSD **3.30** AVE RT **7.33**

Toxaphene 1

Curve Fit: **AVERAGE RF**

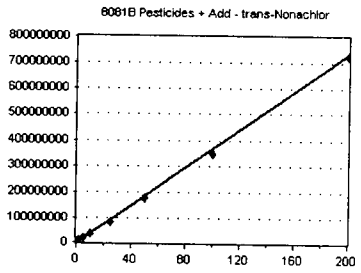


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	169507	16950.700	7.40
0B01012-CALR	50	862137	17242.740	7.40
0B01012-CALS	100	1687426	16874.260	7.40
0B01012-CALT	200	3210991	16054.960	7.40
0B01012-CALU	500	7624274	15248.550	7.40
0B01012-CALV	1000	1.712611E+07	17126.110	7.40
0B01012-CALW	2000	3.017711E+07	15088.550	7.40

AVE RF **16369.410** RF RSD **5.53** AVE RT **7.40**

trans-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2168811	4337622.000	7.42
0B01012-CALB	1	3768972	3768972.000	7.42
0B01012-CALC	2	7569675	3784838.000	7.42
0B01012-CALD	5	1.811565E+07	3623130.000	7.42
0B01012-CALE	10	3.588315E+07	3588315.000	7.42
0B01012-CALF	25	8.181254E+07	3272502.000	7.42
0B01012-CALG	50	1.770198E+08	3540396.000	7.42
0B01012-CALH	100	3.439997E+08	3439997.000	7.42
0B01012-CALI	200	7.279732E+08	3639866.000	7.42

AVE RF **3666182.000** RF RSD **8.10** AVE RT **7.42**

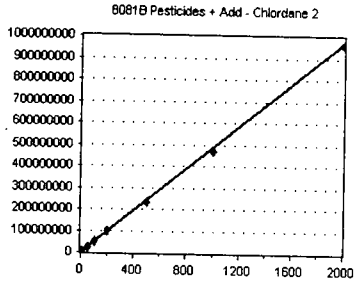
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane 2

Curve Fit: **AVERAGE RF**

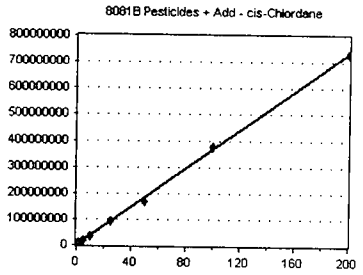


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	5231315	523131.500	7.42
0B01012-CALK	50	2.384606E+07	476921.200	7.42
0B01012-CALL	100	5.006864E+07	500686.400	7.42
0B01012-CALM	200	9.74708E+07	487354.000	7.42
0B01012-CALN	500	2.341804E+08	468360.800	7.42
0B01012-CALO	1000	4.679568E+08	467956.800	7.42
0B01012-CALP	2000	9.597665E+08	479883.300	7.42

AVE RF **486327.700** RF RSD **4.07** AVE RT **7.42**

cis-Chlordane

Curve Fit: **AVERAGE RF**

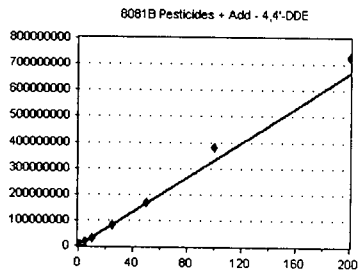


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2072536	4145072.000	7.42
0B01012-CAL2	1	3812238	3812238.000	7.42
0B01012-CAL3	2	7290278	3645139.000	7.42
0B01012-CAL4	5	1.789437E+07	3578874.000	7.42
0B01012-CAL5	10	3.456932E+07	3456932.000	7.42
0B01012-CAL6	25	9.101382E+07	3640553.000	7.42
0B01012-CAL7	50	1.6742E+08	3348400.000	7.42
0B01012-CAL8	100	3.774805E+08	3774805.000	7.42
0B01012-CAL9	200	7.29671E+08	3648355.000	7.42

AVE RF **3672263.000** RF RSD **6.21** AVE RT **7.42**

4,4'-DDE

Curve Fit: **AVERAGE RF**

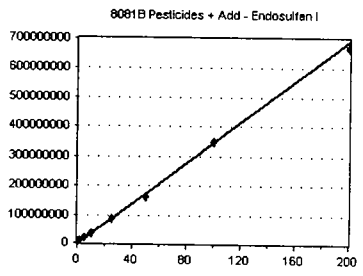


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1628951	3257902.000	7.49
0B01012-CAL2	1	2976091	2976091.000	7.49
0B01012-CAL3	2	6364080	3182040.000	7.49
0B01012-CAL4	5	1.590245E+07	3180490.000	7.49
0B01012-CAL5	10	3.207276E+07	3207276.000	7.49
0B01012-CAL6	25	8.267964E+07	3307186.000	7.49
0B01012-CAL7	50	1.680016E+08	3360032.000	7.49
0B01012-CAL8	100	3.787441E+08	3787441.000	7.49
0B01012-CAL9	200	7.257395E+08	3628698.000	7.49

AVE RF **3320795.000** RF RSD **7.44** AVE RT **7.49**

Endosulfan I

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1932337	3864674.000	7.52
0B01012-CAL2	1	3593891	3593891.000	7.52
0B01012-CAL3	2	6684329	3342165.000	7.52
0B01012-CAL4	5	1.70331E+07	3406620.000	7.52
0B01012-CAL5	10	3.474804E+07	3474804.000	7.52
0B01012-CAL6	25	8.544442E+07	3417777.000	7.52
0B01012-CAL7	50	1.639408E+08	3278816.000	7.52
0B01012-CAL8	100	3.494908E+08	3494908.000	7.52
0B01012-CAL9	200	6.689564E+08	3344782.000	7.52

AVE RF **3468715.000** RF RSD **5.07** AVE RT **7.52**

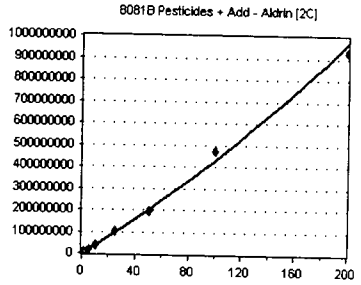
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Aldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

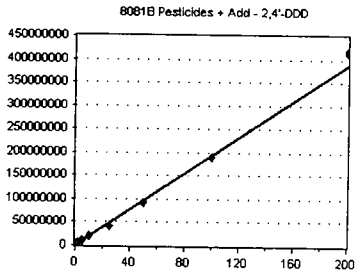


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1887335	3774670.000	7.54
0B01012-CAL2	1	3540234	3540234.000	7.54
0B01012-CAL3	2	7212786	3606393.000	7.54
0B01012-CAL4	5	1.826029E+07	3652058.000	7.54
0B01012-CAL5	10	3.695242E+07	3695242.000	7.54
0B01012-CAL6	25	1.033046E+08	4132184.000	7.54
0B01012-CAL7	50	1.958379E+08	3916758.000	7.54
0B01012-CAL8	100	4.720136E+08	4720136.000	7.54
0B01012-CAL9	200	9.288088E+08	4644044.000	7.54

AVE RF **3964635.000** RF RSD **11.20** AVE RT **7.54**

2,4'-DDD

Curve Fit: **AVERAGE RF**

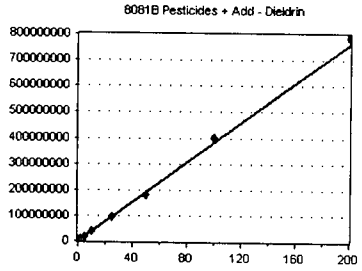


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1111537	2223074.000	7.62
0B01012-CALB	1	1934222	1934222.000	7.61
0B01012-CALC	2	3838920	1919460.000	7.61
0B01012-CALD	5	9882639	1976528.000	7.61
0B01012-CALE	10	1.853462E+07	1853462.000	7.61
0B01012-CALF	25	4.220343E+07	1688137.000	7.61
0B01012-CALG	50	9.313354E+07	1862671.000	7.61
0B01012-CALH	100	1.888996E+08	1888996.000	7.61
0B01012-CALI	200	4.169259E+08	2084630.000	7.61

AVE RF **1936798.000** RF RSD **7.79** AVE RT **7.61**

Dieldrin

Curve Fit: **AVERAGE RF**

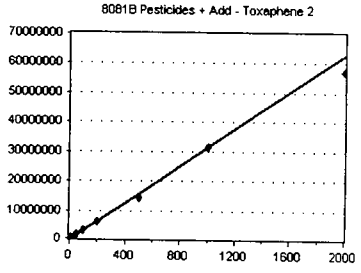


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1958633	3917266.000	7.69
0B01012-CAL2	1	3771816	3771816.000	7.69
0B01012-CAL3	2	7527776	3763888.000	7.69
0B01012-CAL4	5	1.875276E+07	3750552.000	7.69
0B01012-CAL5	10	3.72983E+07	3729830.000	7.69
0B01012-CAL6	25	9.58688E+07	3834752.000	7.69
0B01012-CAL7	50	1.79484E+08	3589680.000	7.69
0B01012-CAL8	100	4.028113E+08	4028113.000	7.69
0B01012-CAL9	200	7.869162E+08	3934581.000	7.69

AVE RF **3813386.000** RF RSD **3.43** AVE RT **7.69**

Toxaphene 2

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	357259	35725.900	7.69
0B01012-CALR	50	1682151	33643.020	7.69
0B01012-CALS	100	3171817	31718.170	7.69
0B01012-CALT	200	6077785	30388.930	7.69
0B01012-CALU	500	1.428352E+07	28567.040	7.69
0B01012-CALV	1000	3.129069E+07	31290.690	7.69
0B01012-CALW	2000	5.714863E+07	28574.320	7.69

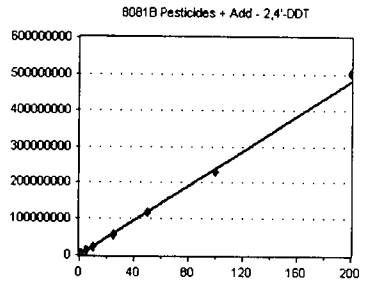
AVE RF **31415.440** RF RSD **8.31** AVE RT **7.69**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

2,4'-DDT

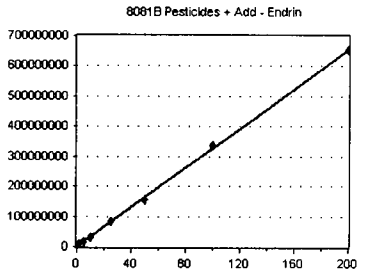


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1418724	2837448.000	7.80
0B01012-CALB	1	2374152	2374152.000	7.80
0B01012-CALC	2	4727347	2363674.000	7.80
0B01012-CALD	5	1.187289E+07	2374578.000	7.80
0B01012-CALE	10	2.292821E+07	2292821.000	7.80
0B01012-CALF	25	5.360788E+07	2144315.000	7.79
0B01012-CALG	50	1.171116E+08	2342232.000	7.79
0B01012-CALH	100	2.298646E+08	2298646.000	7.79
0B01012-CALI	200	5.020763E+08	2510382.000	7.79

AVE RF **2393139.000** RF RSD **8.04** AVE RT **7.79**

Endrin

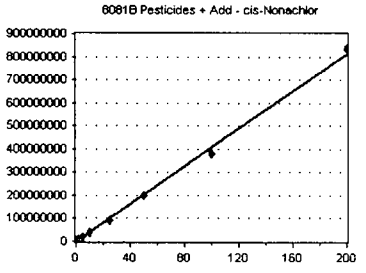


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1701747	3403494.000	7.85
0B01012-CAL2	1	3307872	3307872.000	7.85
0B01012-CAL3	2	6440400	3220200.000	7.85
0B01012-CAL4	5	1.615376E+07	3230752.000	7.85
0B01012-CAL5	10	3.134902E+07	3134902.000	7.85
0B01012-CAL6	25	8.285862E+07	3314345.000	7.85
0B01012-CAL7	50	1.550496E+08	3100992.000	7.85
0B01012-CAL8	100	3.384351E+08	3384351.000	7.85
0B01012-CAL9	200	6.5517E+08	3275850.000	7.85

AVE RF **3263640.000** RF RSD **3.15** AVE RT **7.85**

cis-Nonachlor

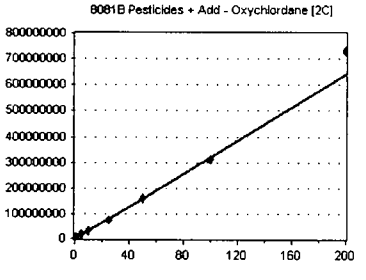


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2296885	4593770.000	7.89
0B01012-CALB	1	4089263	4089263.000	7.89
0B01012-CALC	2	8283514	4141757.000	7.89
0B01012-CALD	5	2.060596E+07	4121192.000	7.89
0B01012-CALE	10	4.043669E+07	4043669.000	7.89
0B01012-CALF	25	9.155034E+07	3662014.000	7.89
0B01012-CALG	50	2.000893E+08	4001786.000	7.89
0B01012-CALH	100	3.793441E+08	3793441.000	7.89
0B01012-CALI	200	8.356395E+08	4178198.000	7.88

AVE RF **4069454.000** RF RSD **6.40** AVE RT **7.89**

Oxychlordane [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1817597	3635194.000	7.91
0B01012-CALB	1	3174792	3174792.000	7.91
0B01012-CALC	2	6050162	3025081.000	7.91
0B01012-CALD	5	1.550996E+07	3101992.000	7.91
0B01012-CALE	10	2.989029E+07	2989029.000	7.91
0B01012-CALF	25	7.158479E+07	2863392.000	7.91
0B01012-CALG	50	1.607071E+08	3214142.000	7.91
0B01012-CALH	100	3.127713E+08	3127713.000	7.91
0B01012-CALI	200	7.303451E+08	3651726.000	7.91

AVE RF **3198118.000** RF RSD **8.55** AVE RT **7.91**

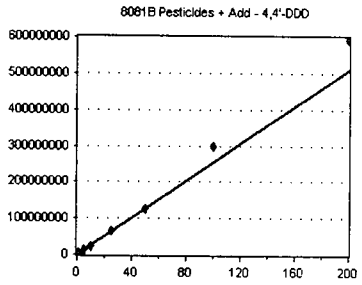
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

4,4'-DDD

Curve Fit: **AVERAGE RF**

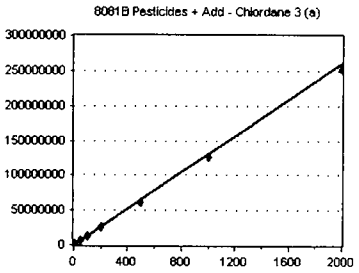


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1218671	2437342.000	7.92
0B01012-CAL2	1	2373048	2373048.000	7.91
0B01012-CAL3	2	4683505	2341753.000	7.91
0B01012-CAL4	5	1.173723E+07	2347446.000	7.91
0B01012-CAL5	10	2.42592E+07	2425920.000	7.91
0B01012-CAL6	25	6.337781E+07	2535112.000	7.91
0B01012-CAL7	50	1.253068E+08	2506136.000	7.91
0B01012-CAL8	100	2.97655E+08	2976550.000	7.91
0B01012-CAL9	200	5.92314E+08	2961570.000	7.91

AVE RF **2544986.000** RF RSD **9.79** AVE RT **7.91**

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

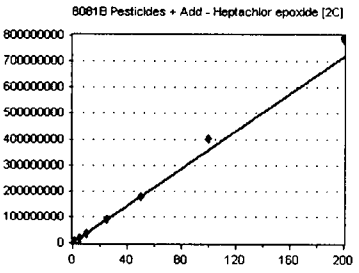


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	1477991	147799.100	7.97
0B01012-CALK	50	6361865	127237.300	7.97
0B01012-CALL	100	1.303182E+07	130318.200	7.97
0B01012-CALM	200	2.587346E+07	129367.300	7.97
0B01012-CALN	500	6.1785E+07	123570.000	7.97
0B01012-CALO	1000	1.265223E+08	126522.300	7.97
0B01012-CALP	2000	2.531359E+08	126568.000	7.97

AVE RF **130197.500** RF RSD **6.19** AVE RT **7.97**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

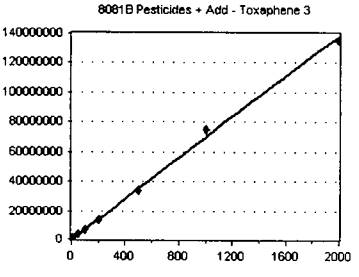


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1829309	3658618.000	7.98
0B01012-CAL2	1	3563306	3563306.000	7.98
0B01012-CAL3	2	6383239	3191620.000	7.98
0B01012-CAL4	5	1.666379E+07	3332758.000	7.98
0B01012-CAL5	10	3.36899E+07	3368990.000	7.98
0B01012-CAL6	25	9.069309E+07	3627724.000	7.98
0B01012-CAL7	50	1.789132E+08	3578264.000	7.98
0B01012-CAL8	100	4.042626E+08	4042626.000	7.98
0B01012-CAL9	200	7.887333E+08	3943667.000	7.98

AVE RF **3589730.000** RF RSD **7.70** AVE RT **7.98**

Toxaphene 3

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	923034	92303.400	8.01
0B01012-CALR	50	3882297	77645.940	8.00
0B01012-CALS	100	7108085	71080.850	8.00
0B01012-CALT	200	1.395566E+07	69778.300	8.00
0B01012-CALU	500	3.382787E+07	67655.740	8.00
0B01012-CALV	1000	7.486939E+07	74869.390	8.00
0B01012-CALW	2000	1.348564E+08	67428.200	8.00

AVE RF **74394.550** RF RSD **11.74** AVE RT **8.00**

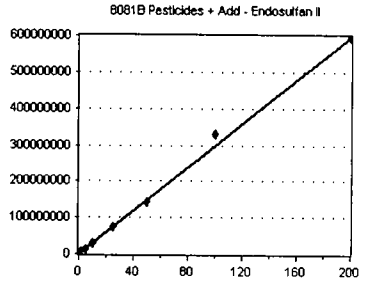
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endosulfan II

Curve Fit: **AVERAGE RF**

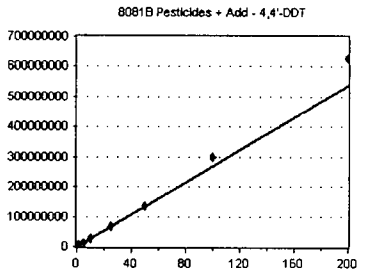


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1650694	3301388.000	8.01
0B01012-CAL2	1	3004856	3004856.000	8.01
0B01012-CAL3	2	5851117	2925559.000	8.01
0B01012-CAL4	5	1.400165E+07	2800330.000	8.01
0B01012-CAL5	10	2.818935E+07	2818935.000	8.01
0B01012-CAL6	25	7.334226E+07	2933690.000	8.01
0B01012-CAL7	50	1.418549E+08	2837098.000	8.01
0B01012-CAL8	100	3.318899E+08	3318899.000	8.01
0B01012-CAL9	200	5.966484E+08	2983242.000	8.01

AVE RF **2991555.000** RF RSD **6.49** AVE RT **8.01**

4,4'-DDT

Curve Fit: **AVERAGE RF**

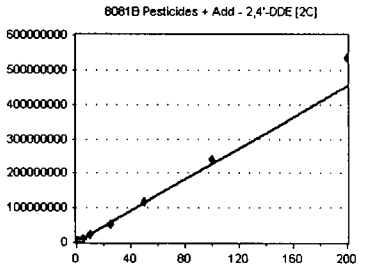


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1351757	2703514.000	8.11
0B01012-CAL2	1	2497592	2497592.000	8.11
0B01012-CAL3	2	4907038	2453519.000	8.11
0B01012-CAL4	5	1.263265E+07	2526530.000	8.11
0B01012-CAL5	10	2.469228E+07	2469228.000	8.11
0B01012-CAL6	25	6.809745E+07	2723898.000	8.11
0B01012-CAL7	50	1.347993E+08	2695986.000	8.11
0B01012-CAL8	100	2.988081E+08	2988081.000	8.11
0B01012-CAL9	200	6.271791E+08	3135895.000	8.11

AVE RF **2688249.000** RF RSD **8.89** AVE RT **8.11**

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

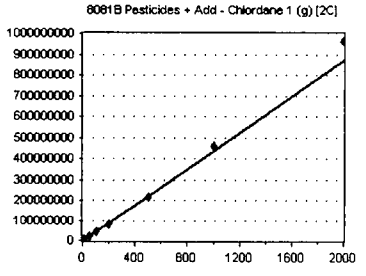


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1200073	2400146.000	8.11
0B01012-CALB	1	2104301	2104301.000	8.11
0B01012-CALC	2	4260806	2130403.000	8.11
0B01012-CALD	5	1.090641E+07	2181282.000	8.11
0B01012-CALE	10	2.19581E+07	2195810.000	8.11
0B01012-CALF	25	5.111336E+07	2044534.000	8.11
0B01012-CALG	50	1.17141E+08	2342820.000	8.11
0B01012-CALH	100	2.384413E+08	2384413.000	8.11
0B01012-CALI	200	5.346824E+08	2673412.000	8.11

AVE RF **2273013.000** RF RSD **8.65** AVE RT **8.11**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	4084683	408468.300	8.12
0B01012-CALK	50	2.01342E+07	402684.000	8.12
0B01012-CALL	100	4.333219E+07	433321.900	8.12
0B01012-CALM	200	8.36751E+07	418375.500	8.12
0B01012-CALN	500	2.179744E+08	435948.800	8.12
0B01012-CALO	1000	4.61118E+08	461118.000	8.12
0B01012-CALP	2000	9.628295E+08	481414.800	8.12

AVE RF **434475.900** RF RSD **6.55** AVE RT **8.12**

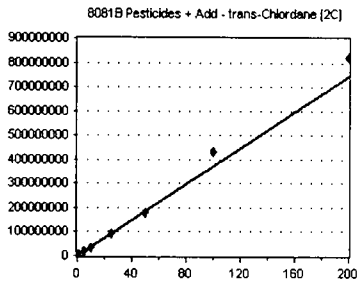
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

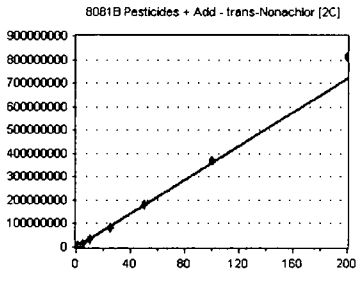


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1923989	3847978.000	8.12
0B01012-CAL2	1	3473086	3473086.000	8.12
0B01012-CAL3	2	6824804	3412402.000	8.12
0B01012-CAL4	5	1.70644E+07	3412880.000	8.12
0B01012-CAL5	10	3.494534E+07	3494534.000	8.12
0B01012-CAL6	25	9.410738E+07	3764295.000	8.12
0B01012-CAL7	50	1.812278E+08	3624556.000	8.12
0B01012-CAL8	100	4.326647E+08	4326647.000	8.12
0B01012-CAL9	200	8.218424E+08	4109212.000	8.12

AVE RF **3718399.000** RF RSD **8.75** AVE RT **8.12**

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

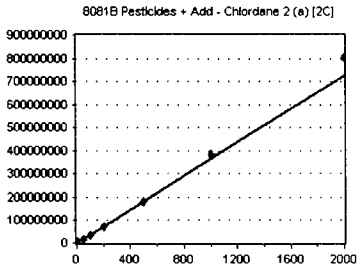


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2004659	4009318.000	8.18
0B01012-CALB	1	3680280	3680280.000	8.18
0B01012-CALC	2	6830472	3415236.000	8.18
0B01012-CALD	5	1.698707E+07	3397414.000	8.18
0B01012-CALE	10	3.440216E+07	3440216.000	8.18
0B01012-CALF	25	8.078905E+07	3231562.000	8.18
0B01012-CALG	50	1.792028E+08	3584056.000	8.18
0B01012-CALH	100	3.675612E+08	3675612.000	8.18
0B01012-CALI	200	8.103848E+08	4051924.000	8.18

AVE RF **3609513.000** RF RSD **7.71** AVE RT **8.18**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**

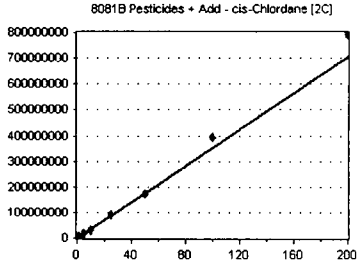


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	3718290	371829.000	8.23
0B01012-CALK	50	1.591002E+07	318200.400	8.23
0B01012-CALL	100	3.522198E+07	352219.800	8.23
0B01012-CALM	200	7.06827E+07	353413.500	8.23
0B01012-CALN	500	1.819715E+08	363943.000	8.23
0B01012-CALO	1000	3.848055E+08	384805.500	8.23
0B01012-CALP	2000	8.009549E+08	400477.400	8.23

AVE RF **363555.500** RF RSD **7.25** AVE RT **8.23**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1851957	3703914.000	8.23
0B01012-CAL2	1	3361292	3361292.000	8.23
0B01012-CAL3	2	6414031	3207016.000	8.23
0B01012-CAL4	5	1.606124E+07	3212248.000	8.23
0B01012-CAL5	10	3.204669E+07	3204669.000	8.23
0B01012-CAL6	25	9.099102E+07	3639641.000	8.23
0B01012-CAL7	50	1.730353E+08	3460706.000	8.23
0B01012-CAL8	100	3.950725E+08	3950725.000	8.23
0B01012-CAL9	200	7.927768E+08	3963884.000	8.23

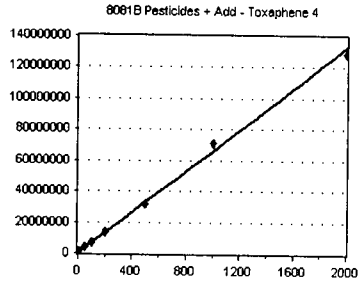
AVE RF **3522677.000** RF RSD **8.70** AVE RT **8.23**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Toxaphene 4

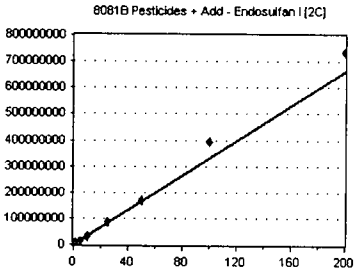


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	1100625	110062.500	8.25
0B01012-CALR	50	3672237	73444.740	8.25
0B01012-CALS	100	6856793	68567.930	8.25
0B01012-CALT	200	1.355915E+07	67795.750	8.25
0B01012-CALU	500	3.170131E+07	63402.620	8.25
0B01012-CALV	1000	7.126714E+07	71267.130	8.25
0B01012-CALW	2000	1.289479E+08	64473.950	8.24

AVE RF **74144.950** RF RSD **21.88** AVE RT **8.25**

Endosulfan I [2C]

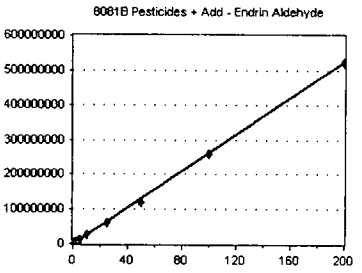


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1589681	3179362.000	8.28
0B01012-CAL2	1	3092501	3092501.000	8.28
0B01012-CAL3	2	6087483	3043742.000	8.28
0B01012-CAL4	5	1.497872E+07	2995744.000	8.28
0B01012-CAL5	10	3.064788E+07	3064788.000	8.28
0B01012-CAL6	25	8.565336E+07	3426135.000	8.28
0B01012-CAL7	50	1.67437E+08	3348740.000	8.28
0B01012-CAL8	100	3.925215E+08	3925215.000	8.28
0B01012-CAL9	200	7.337262E+08	3668631.000	8.28

AVE RF **3304984.000** RF RSD **9.66** AVE RT **8.28**

Endrin Aldehyde

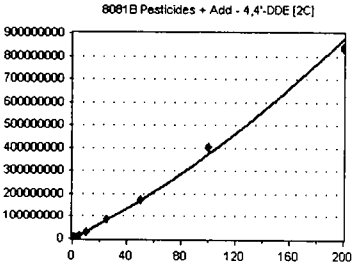


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1534740	3069480.000	8.30
0B01012-CAL2	1	2830842	2830842.000	8.30
0B01012-CAL3	2	5465292	2732646.000	8.30
0B01012-CAL4	5	1.259007E+07	2518014.000	8.30
0B01012-CAL5	10	2.511112E+07	2511112.000	8.30
0B01012-CAL6	25	6.177681E+07	2471072.000	8.30
0B01012-CAL7	50	1.185638E+08	2371276.000	8.30
0B01012-CAL8	100	2.586035E+08	2586035.000	8.30
0B01012-CAL9	200	5.206805E+08	2603403.000	8.30

AVE RF **2632653.000** RF RSD **8.12** AVE RT **8.30**

4,4'-DDE [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1346237	2692474.000	8.33
0B01012-CAL2	1	2684993	2684993.000	8.33
0B01012-CAL3	2	5670683	2835342.000	8.33
0B01012-CAL4	5	1.485957E+07	2971914.000	8.33
0B01012-CAL5	10	3.019524E+07	3019524.000	8.33
0B01012-CAL6	25	8.676414E+07	3470566.000	8.33
0B01012-CAL7	50	1.751903E+08	3503806.000	8.33
0B01012-CAL8	100	4.059366E+08	4059366.000	8.33
0B01012-CAL9	200	8.351139E+08	4175570.000	8.33

AVE RF **3268173.000** RF RSD **17.29** AVE RT **8.33**

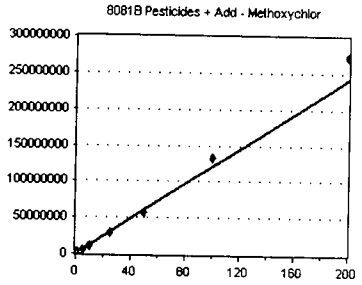
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Methoxychlor

Curve Fit: **AVERAGE RF**

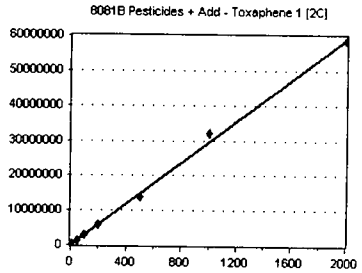


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	650344	1300688.000	8.45
0B01012-CAL2	1	1197106	1197106.000	8.45
0B01012-CAL3	2	2268598	1134299.000	8.45
0B01012-CAL4	5	5565381	1113076.000	8.45
0B01012-CAL5	10	1.123088E+07	1123088.000	8.45
0B01012-CAL6	25	2.898057E+07	1159223.000	8.45
0B01012-CAL7	50	5.674386E+07	1134877.000	8.45
0B01012-CAL8	100	1.331207E+08	1331207.000	8.45
0B01012-CAL9	200	2.7324E+08	1366200.000	8.45

AVE RF **1206640.000** RF RSD **8.20** AVE RT **8.45**

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

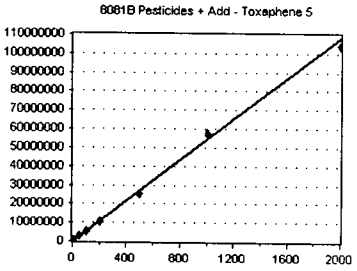


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	273928	27392.800	8.46
0B01012-CALR	50	1457893	29157.860	8.46
0B01012-CALS	100	3039636	30396.360	8.46
0B01012-CALT	200	5983532	29917.660	8.45
0B01012-CALU	500	1.399106E+07	27982.120	8.45
0B01012-CALV	1000	3.202091E+07	32020.910	8.45
0B01012-CALW	2000	5.883012E+07	29415.060	8.45

AVE RF **29468.970** RF RSD **5.22** AVE RT **8.45**

Toxaphene 5

Curve Fit: **AVERAGE RF**

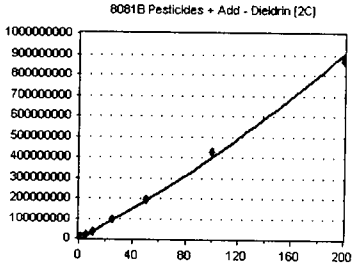


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	585949	58594.900	8.47
0B01012-CALR	50	2698036	53960.720	8.47
0B01012-CALS	100	5268375	52683.750	8.47
0B01012-CALT	200	1.072372E+07	53618.600	8.47
0B01012-CALU	500	2.545497E+07	50909.940	8.47
0B01012-CALV	1000	5.760498E+07	57604.980	8.47
0B01012-CALW	2000	1.040872E+08	52043.600	8.47

AVE RF **54202.360** RF RSD **5.28** AVE RT **8.47**

Dieldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1711724	3423448.000	8.48
0B01012-CAL2	1	3204188	3204188.000	8.48
0B01012-CAL3	2	6556953	3278477.000	8.48
0B01012-CAL4	5	1.689616E+07	3379232.000	8.48
0B01012-CAL5	10	3.498248E+07	3498248.000	8.48
0B01012-CAL6	25	9.588393E+07	3835357.000	8.48
0B01012-CAL7	50	1.92135E+08	3842700.000	8.48
0B01012-CAL8	100	4.251472E+08	4251472.000	8.48
0B01012-CAL9	200	8.711686E+08	4355843.000	8.48

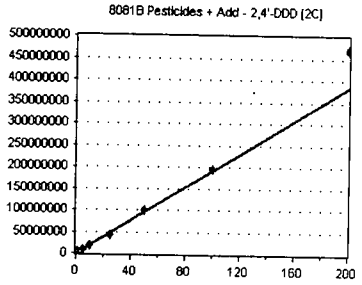
AVE RF **3674329.000** RF RSD **11.43** AVE RT **8.48**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

2,4'-DDD [2C]

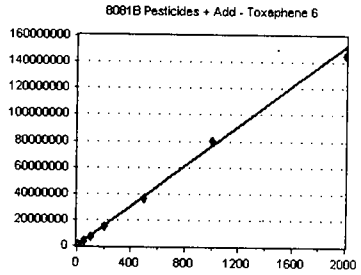


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	960869	1921738.000	8.49
0B01012-CALB	1	1795089	1795089.000	8.49
0B01012-CALC	2	3680145	1840073.000	8.49
0B01012-CALD	5	9298557	1859711.000	8.49
0B01012-CALE	10	1.806277E+07	1806277.000	8.48
0B01012-CALF	25	4.296202E+07	1718481.000	8.49
0B01012-CALG	50	9.924723E+07	1984945.000	8.48
0B01012-CALH	100	1.955472E+08	1955472.000	8.48
0B01012-CALI	200	4.693478E+08	2346739.000	8.48

AVE RF **1914280.000** RF RSD **9.53** AVE RT **8.48**

Toxaphene 6

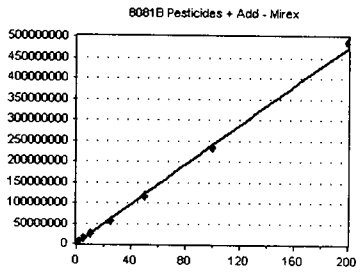


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	844549	84454.900	8.54
0B01012-CALR	50	3790810	75816.200	8.54
0B01012-CALS	100	7293127	72931.270	8.54
0B01012-CALT	200	1.482303E+07	74115.150	8.54
0B01012-CALU	500	3.599046E+07	71980.920	8.54
0B01012-CALV	1000	8.042554E+07	80425.540	8.54
0B01012-CALW	2000	1.453094E+08	72654.700	8.54

AVE RF **76054.100** RF RSD **6.15** AVE RT **8.54**

Mirex

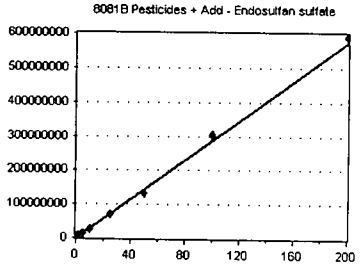


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1693083	3386166.000	8.55
0B01012-CALB	1	2918797	2918797.000	8.55
0B01012-CALC	2	5534484	2767242.000	8.55
0B01012-CALD	5	1.332253E+07	2664506.000	8.55
0B01012-CALE	10	2.54303E+07	2543030.000	8.55
0B01012-CALF	25	5.582939E+07	2233176.000	8.55
0B01012-CALG	50	1.171366E+08	2342732.000	8.55
0B01012-CALH	100	2.327329E+08	2327329.000	8.55
0B01012-CALI	200	4.87218E+08	2436090.000	8.55

AVE RF **2624341.000** RF RSD **13.82** AVE RT **8.55**

Endosulfan sulfate



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1548557	3097114.000	8.60
0B01012-CAL2	1	2921925	2921925.000	8.60
0B01012-CAL3	2	5585397	2792699.000	8.60
0B01012-CAL4	5	1.384389E+07	2768778.000	8.60
0B01012-CAL5	10	2.704278E+07	2704278.000	8.60
0B01012-CAL6	25	7.001342E+07	2800537.000	8.60
0B01012-CAL7	50	1.33861E+08	2677220.000	8.60
0B01012-CAL8	100	3.044524E+08	3044524.000	8.60
0B01012-CAL9	200	5.905002E+08	2952501.000	8.60

AVE RF **2862175.000** RF RSD **5.19** AVE RT **8.60**

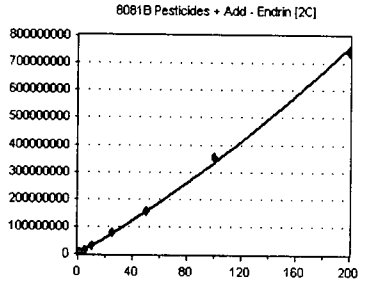
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

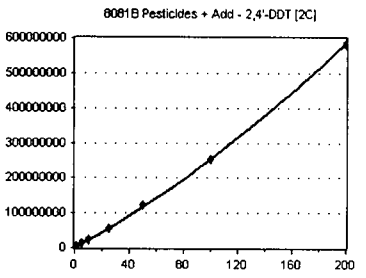


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1499119	2998238.000	8.71
0B01012-CAL2	1	2810308	2810308.000	8.71
0B01012-CAL3	2	5547721	2773861.000	8.71
0B01012-CAL4	5	1.387609E+07	2775218.000	8.71
0B01012-CAL5	10	2.91605E+07	2916050.000	8.71
0B01012-CAL6	25	7.939983E+07	3175993.000	8.71
0B01012-CAL7	50	1.539787E+08	3079574.000	8.71
0B01012-CAL8	100	3.544835E+08	3544835.000	8.71
0B01012-CAL9	200	7.386292E+08	3693146.000	8.71

AVE RF **3085247.000** RF RSD **10.83** AVE RT **8.71**

2,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

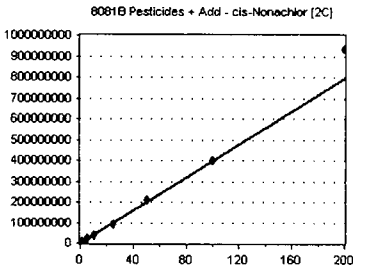


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1210132	2420264.000	8.71
0B01012-CALB	1	2100185	2100185.000	8.71
0B01012-CALC	2	4187285	2093643.000	8.71
0B01012-CALD	5	1.135804E+07	2271608.000	8.71
0B01012-CALE	10	2.213786E+07	2213786.000	8.71
0B01012-CALF	25	5.372345E+07	2148938.000	8.71
0B01012-CALG	50	1.227566E+08	2455132.000	8.71
0B01012-CALH	100	2.535689E+08	2535689.000	8.71
0B01012-CALI	200	5.836223E+08	2918111.000	8.71

AVE RF **2350817.000** RF RSD **11.32** AVE RT **8.71**

cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

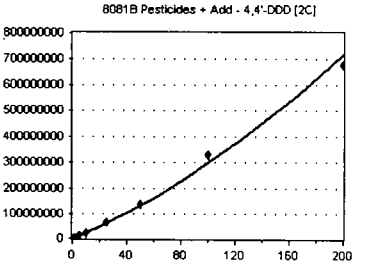


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2084280	4168560.000	8.75
0B01012-CALB	1	3801985	3801985.000	8.75
0B01012-CALC	2	7352547	3676274.000	8.75
0B01012-CALD	5	1.958534E+07	3917068.000	8.75
0B01012-CALE	10	3.83258E+07	3832580.000	8.75
0B01012-CALF	25	9.038487E+07	3615395.000	8.75
0B01012-CALG	50	2.092537E+08	4185074.000	8.75
0B01012-CALH	100	3.989475E+08	3989475.000	8.75
0B01012-CALI	200	9.36115E+08	4680575.000	8.75

AVE RF **3985221.000** RF RSD **8.18** AVE RT **8.75**

4,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1119384	2238768.000	8.75
0B01012-CAL2	1	2115078	2115078.000	8.75
0B01012-CAL3	2	4350712	2175356.000	8.75
0B01012-CAL4	5	1.125402E+07	2250804.000	8.75
0B01012-CAL5	10	2.275793E+07	2275793.000	8.75
0B01012-CAL6	25	6.517722E+07	2607089.000	8.75
0B01012-CAL7	50	1.364753E+08	2729506.000	8.75
0B01012-CAL8	100	3.300586E+08	3300586.000	8.75
0B01012-CAL9	200	6.796638E+08	3398319.000	8.75

AVE RF **2565700.000** RF RSD **19.03** AVE RT **8.75**

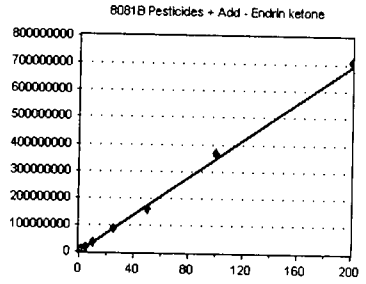
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin ketone

Curve Fit: **AVERAGE RF**

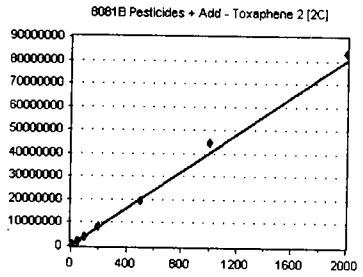


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1865728	3731456.000	8.80
0B01012-CAL2	1	3540934	3540934.000	8.80
0B01012-CAL3	2	6824708	3412354.000	8.80
0B01012-CAL4	5	1.662305E+07	3324610.000	8.80
0B01012-CAL5	10	3.267614E+07	3267614.000	8.80
0B01012-CAL6	25	8.55853E+07	3423412.000	8.80
0B01012-CAL7	50	1.597879E+08	3195758.000	8.80
0B01012-CAL8	100	3.667893E+08	3667893.000	8.80
0B01012-CAL9	200	7.088007E+08	3544004.000	8.80

AVE RF **3456448.000** RF RSD **5.21** AVE RT **8.80**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**

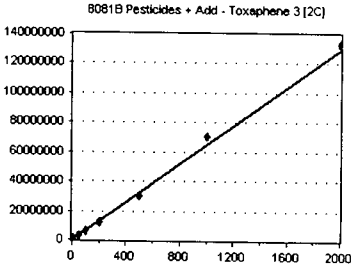


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	364064	36406.400	8.80
0B01012-CALR	50	1899624	37992.480	8.80
0B01012-CALS	100	4024499	40244.990	8.80
0B01012-CALT	200	8295354	41476.770	8.80
0B01012-CALU	500	1.937513E+07	38750.260	8.80
0B01012-CALV	1000	4.495241E+07	44952.410	8.80
0B01012-CALW	2000	8.299866E+07	41499.330	8.80

AVE RF **40188.950** RF RSD **6.98** AVE RT **8.80**

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

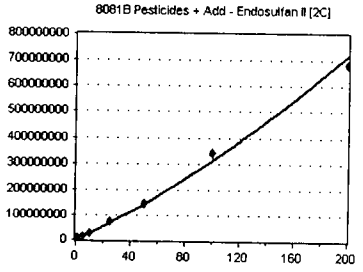


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	694351	69435.100	8.84
0B01012-CALR	50	3122967	62459.340	8.84
0B01012-CALS	100	6231660	62316.600	8.84
0B01012-CALT	200	1.240684E+07	62034.200	8.84
0B01012-CALU	500	3.008388E+07	60167.760	8.84
0B01012-CALV	1000	7.000674E+07	70006.730	8.84
0B01012-CALW	2000	1.329104E+08	66455.200	8.84

AVE RF **64696.420** RF RSD **6.05** AVE RT **8.84**

Endosulfan II [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1442453	2884906.000	8.85
0B01012-CAL2	1	2617481	2617481.000	8.86
0B01012-CAL3	2	5197583	2598792.000	8.85
0B01012-CAL4	5	1.268667E+07	2537334.000	8.85
0B01012-CAL5	10	2.593768E+07	2593768.000	8.85
0B01012-CAL6	25	7.303019E+07	2921208.000	8.85
0B01012-CAL7	50	1.461509E+08	2923018.000	8.85
0B01012-CAL8	100	3.418956E+08	3418956.000	8.85
0B01012-CAL9	200	6.847817E+08	3423909.000	8.85

AVE RF **2879930.000** RF RSD **11.88** AVE RT **8.85**

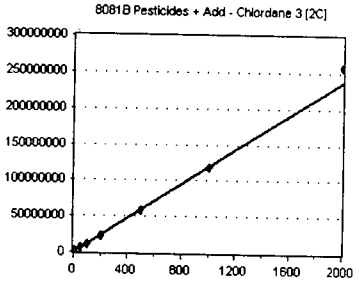
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane 3 [2C]

Curve Fit: **AVERAGE RF**

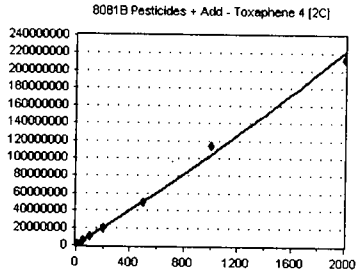


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	1246903	124690.300	8.89
0B01012-CALK	50	5712561	114251.200	8.89
0B01012-CALL	100	1.164798E+07	116479.800	8.89
0B01012-CALM	200	2.214872E+07	110743.600	8.89
0B01012-CALN	500	5.849682E+07	116993.600	8.89
0B01012-CALO	1000	1.188456E+08	118845.600	8.89
0B01012-CALP	2000	2.585676E+08	129283.800	8.89

AVE RF **118755.400** RF RSD **5.31** AVE RT **8.89**

Toxaphene 4 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

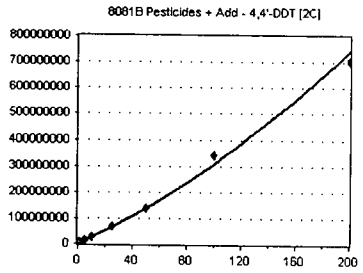


Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	1372328	137232.800	8.91
0B01012-CALR	50	5032751	100655.000	8.91
0B01012-CALS	100	1.007582E+07	100758.200	8.91
0B01012-CALT	200	1.995519E+07	99775.950	8.91
0B01012-CALU	500	4.883292E+07	97665.840	8.91
0B01012-CALV	1000	1.141068E+08	114106.800	8.91
0B01012-CALW	2000	2.126267E+08	106313.400	8.91

AVE RF **108072.600** RF RSD **12.95** AVE RT **8.91**

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

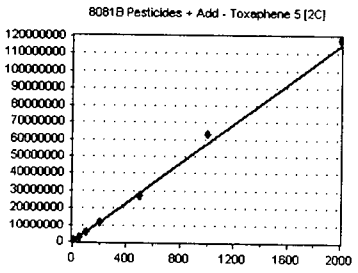


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1360505	2721010.000	8.98
0B01012-CAL2	1	2317293	2317293.000	8.98
0B01012-CAL3	2	4735251	2367626.000	8.98
0B01012-CAL4	5	1.163505E+07	2327010.000	8.98
0B01012-CAL5	10	2.513261E+07	2513261.000	8.98
0B01012-CAL6	25	7.053326E+07	2821331.000	8.98
0B01012-CAL7	50	1.384132E+08	2768264.000	8.98
0B01012-CAL8	100	3.40345E+08	3403450.000	8.98
0B01012-CAL9	200	7.064813E+08	3532407.000	8.98

AVE RF **2752406.000** RF RSD **16.32** AVE RT **8.98**

Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	574323	57432.300	9.08
0B01012-CALR	50	2697421	53948.420	9.08
0B01012-CALS	100	5637073	56370.730	9.08
0B01012-CALT	200	1.148559E+07	57427.950	9.08
0B01012-CALU	500	2.705087E+07	54101.740	9.08
0B01012-CALV	1000	6.308424E+07	63084.240	9.08
0B01012-CALW	2000	1.178774E+08	58938.700	9.08

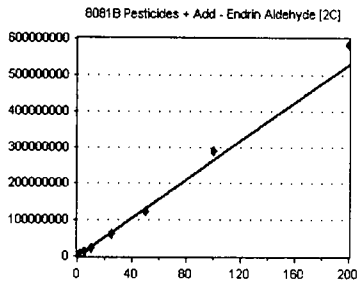
AVE RF **57329.150** RF RSD **5.45** AVE RT **9.08**

Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin Aldehyde [2C]

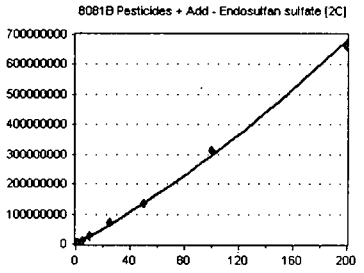


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1556354	3112708.000	9.09
0B01012-CAL2	1	2604623	2604623.000	9.09
0B01012-CAL3	2	5226313	2613157.000	9.09
0B01012-CAL4	5	1.183867E+07	2367734.000	9.09
0B01012-CAL5	10	2.362231E+07	2362231.000	9.09
0B01012-CAL6	25	6.095996E+07	2438399.000	9.09
0B01012-CAL7	50	1.234771E+08	2469542.000	9.09
0B01012-CAL8	100	2.899748E+08	2899748.000	9.09
0B01012-CAL9	200	5.850689E+08	2925345.000	9.09

AVE RF **2643721.000** RF RSD **10.32** AVE RT **9.09**

Endosulfan sulfate [2C]

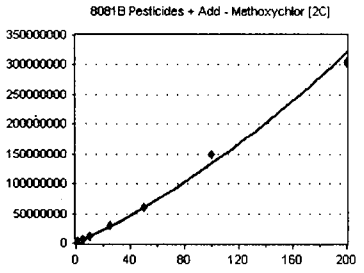


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1535031	3070062.000	9.28
0B01012-CAL2	1	2490983	2490983.000	9.28
0B01012-CAL3	2	5212773	2606387.000	9.28
0B01012-CAL4	5	1.251823E+07	2503646.000	9.28
0B01012-CAL5	10	2.503622E+07	2503622.000	9.28
0B01012-CAL6	25	7.015802E+07	2806321.000	9.28
0B01012-CAL7	50	1.350653E+08	2701306.000	9.28
0B01012-CAL8	100	3.154474E+08	3154474.000	9.28
0B01012-CAL9	200	6.606305E+08	3303153.000	9.28

AVE RF **2793328.000** RF RSD **11.10** AVE RT **9.28**

Methoxychlor [2C]

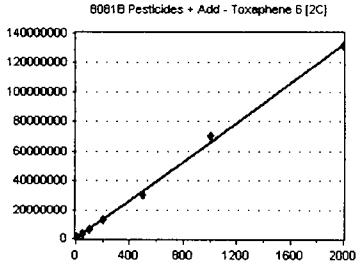


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	981544	1963088.000	9.46
0B01012-CAL2	1	1213779	1213779.000	9.45
0B01012-CAL3	2	2619150	1309575.000	9.46
0B01012-CAL4	5	5652133	1130427.000	9.45
0B01012-CAL5	10	1.086533E+07	1086533.000	9.46
0B01012-CAL6	25	3.016383E+07	1206553.000	9.45
0B01012-CAL7	50	6.027848E+07	1205570.000	9.45
0B01012-CAL8	100	1.490069E+08	1490069.000	9.45
0B01012-CAL9	200	3.043319E+08	1521660.000	9.45

AVE RF **1347473.000** RF RSD **20.39** AVE RT **9.45**

Toxaphene 6 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	749407	74940.700	9.46
0B01012-CALR	50	3159313	63186.260	9.46
0B01012-CALS	100	6347466	63474.660	9.46
0B01012-CALT	200	1.267592E+07	63379.600	9.46
0B01012-CALU	500	3.045114E+07	60902.280	9.46
0B01012-CALV	1000	7.06734E+07	70673.400	9.46
0B01012-CALW	2000	1.316398E+08	65819.900	9.46

AVE RF **66053.830** RF RSD **7.54** AVE RT **9.46**

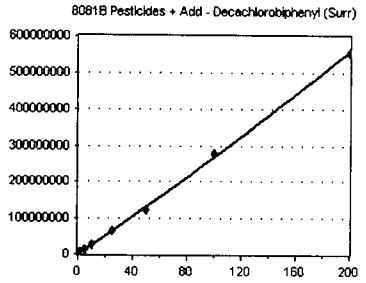
Element Calibration Review Sheet

Calibration ID: **A0B0404** Instrument: **DUALECD8** Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20020**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

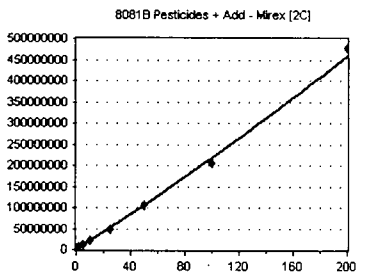


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2137981	4275962.000	9.51
0B01012-CAL2	1	3342363	3342363.000	9.51
0B01012-CAL3	2	6150705	3075353.000	9.51
0B01012-CAL4	5	1.355021E+07	2710042.000	9.51
0B01012-CAL5	10	2.660587E+07	2660587.000	9.51
0B01012-CAL6	25	6.645264E+07	2658106.000	9.51
0B01012-CAL7	50	1.233724E+08	2467448.000	9.51
0B01012-CAL8	100	2.800902E+08	2800902.000	9.51
0B01012-CAL9	200	5.543695E+08	2771847.000	9.51

AVE RF **2973623.000** RF RSD **18.56** AVE RT **9.51**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

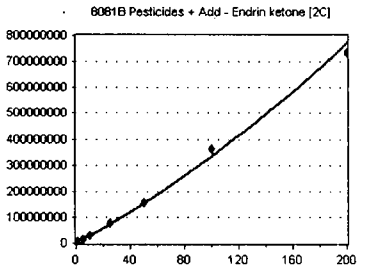


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1475836	2951672.000	9.68
0B01012-CALB	1	2854711	2854711.000	9.67
0B01012-CALC	2	4870687	2435344.000	9.67
0B01012-CALD	5	1.146715E+07	2293430.000	9.67
0B01012-CALE	10	2.096208E+07	2096208.000	9.67
0B01012-CALF	25	4.778422E+07	1911369.000	9.67
0B01012-CALG	50	1.048365E+08	2096730.000	9.67
0B01012-CALH	100	2.041903E+08	2041903.000	9.67
0B01012-CALI	200	4.795865E+08	2397933.000	9.67

AVE RF **2342144.000** RF RSD **15.43** AVE RT **9.67**

Endrin ketone [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

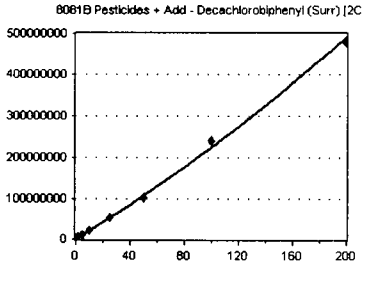


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2135612	4271224.000	9.68
0B01012-CAL2	1	3121972	3121972.000	9.68
0B01012-CAL3	2	6091766	3045883.000	9.68
0B01012-CAL4	5	1.440246E+07	2880492.000	9.68
0B01012-CAL5	10	2.883066E+07	2883066.000	9.68
0B01012-CAL6	25	7.944938E+07	3177975.000	9.68
0B01012-CAL7	50	1.567381E+08	3134762.000	9.68
0B01012-CAL8	100	3.636936E+08	3636936.000	9.68
0B01012-CAL9	200	7.370275E+08	3685138.000	9.68

AVE RF **3315272.000** RF RSD **13.87** AVE RT **9.68**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2121210	4242420.000	10.54
0B01012-CAL2	1	2619998	2619998.000	10.54
0B01012-CAL3	2	5371510	2685755.000	10.54
0B01012-CAL4	5	1.124264E+07	2248528.000	10.54
0B01012-CAL5	10	2.164163E+07	2164163.000	10.54
0B01012-CAL6	25	5.401791E+07	2160717.000	10.54
0B01012-CAL7	50	1.037977E+08	2075954.000	10.54
0B01012-CAL8	100	2.400362E+08	2400362.000	10.54
0B01012-CAL9	200	4.776297E+08	2388149.000	10.54

AVE RF **2554005.000** RF RSD **26.09** AVE RT **10.54**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

Analysis Included

1311/8081B TCLP Pest Reg List
1311/8081B TCLP Pest Reg List +ADD
1311/8081B TCLP Pesticides (All)
1311/8081B TCLP Pesticides + Add (All)
1312/8081B SPLP Pesticides
608 Additionals Only (QC)
608 Pest (Chlordane)
608 Pesticides
608 Pesticides (DDT Only)
608 Pesticides (SW)
608 Pesticides (SW) Full List
608 Pesticides (TTO)
608.3 Pesticides
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B Pesticides + Add (Diss)
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0B01012-ICB1	Initial Cal Blank	Water	A20A395		2/1/2020 3:09:00PM
0B01012-CAL1	Cal Standard	Water	A20B001	"	2/1/2020 3:26:00PM
0B01012-CAL2	Cal Standard	Water	A20B002	"	2/1/2020 3:43:00PM
0B01012-CAL3	Cal Standard	Water	A19K128	"	2/1/2020 4:00:00PM
0B01012-CAL4	Cal Standard	Water	A19K130	"	2/1/2020 4:16:00PM
0B01012-CAL5	Cal Standard	Water	A19K131	"	2/1/2020 4:33:00PM
0B01012-CAL6	Cal Standard	Water	A19K132	"	2/1/2020 4:50:00PM
0B01012-CAL7	Cal Standard	Water	A19K133	"	2/1/2020 5:07:00PM
0B01012-CAL8	Cal Standard	Water	A19K134	"	2/1/2020 5:24:00PM
0B01012-CAL9	Cal Standard	Water	A19K126	"	2/1/2020 5:41:00PM
0B01012-ICV1	Initial Cal Check	Water	A19I209	"	2/1/2020 6:14:00PM
0B01012-CALA	Cal Standard	Water	A20B003	"	2/1/2020 6:31:00PM
0B01012-CALB	Cal Standard	Water	A19K263	"	2/1/2020 6:48:00PM
0B01012-CALC	Cal Standard	Water	A19K264	"	2/1/2020 7:05:00PM
0B01012-CALD	Cal Standard	Water	A19K265	"	2/1/2020 7:22:00PM
0B01012-CALE	Cal Standard	Water	A19K266	"	2/1/2020 7:38:00PM
0B01012-CALF	Cal Standard	Water	A19J407	"	2/1/2020 7:55:00PM
0B01012-CALG	Cal Standard	Water	A19J408	"	2/1/2020 8:12:00PM
0B01012-CALH	Cal Standard	Water	A19J409	"	2/1/2020 8:29:00PM
0B01012-CALI	Cal Standard	Water	A19K262	"	2/1/2020 8:46:00PM
0B01012-ICV2	Initial Cal Check	Water	A19J410	"	2/1/2020 9:19:00PM
0B01012-CALJ	Cal Standard	Water	A20B004	"	2/1/2020 9:36:00PM
0B01012-CALK	Cal Standard	Water	A19K307	"	2/1/2020 9:53:00PM
0B01012-CALL	Cal Standard	Water	A19K308	"	2/1/2020 10:10:00PM
0B01012-CALM	Cal Standard	Water	A19K309	"	2/1/2020 10:27:00PM
0B01012-CALN	Cal Standard	Water	A19K310	"	2/1/2020 10:43:00PM
0B01012-CALO	Cal Standard	Water	A19K311	"	2/1/2020 11:00:00PM
0B01012-CALP	Cal Standard	Water	A19K306	"	2/1/2020 11:17:00PM
0B01012-ICV3	Initial Cal Check	Water	A19K312	"	2/1/2020 11:51:00PM
0B01012-CALQ	Cal Standard	Water	A20B005	"	2/2/2020 12:08:00AM
0B01012-CALR	Cal Standard	Water	A19J417	"	2/2/2020 12:24:00AM
0B01012-CALS	Cal Standard	Water	A19J418	"	2/2/2020 12:41:00AM
0B01012-CALT	Cal Standard	Water	A19J419	"	2/2/2020 12:58:00AM
0B01012-CALU	Cal Standard	Water	A19J420	"	2/2/2020 1:15:00AM
0B01012-CALV	Cal Standard	Water	A19J421	"	2/2/2020 1:32:00AM
0B01012-CALW	Cal Standard	Water	A19J416	"	2/2/2020 1:48:00AM
0B01012-ICV4	Initial Cal Check	Water	A19J422	"	2/2/2020 2:22:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0B0404** Instrument: **DUALECD8F**

1311/8081B TCLP Pest Reg L Sequence: **0B01012** Matrix: **Water**

0B01012-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

0B01012-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic 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 otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0B0404** Instrument: **DUALECD8F**

608.3 Pesticides Sequence: **0B01012** Matrix: **Water**

0B01012-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0B01012-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0B01012-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0B01012-ICV4	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**

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

Compound List Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

Total Cpnds : 85

MWB 2/3/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.297	1.000	A	H	R
2		a-BHC	5.837	1.000	A	H	R
3		g-BHC	6.119	1.000	A	H	R
4		b-BHC	6.197	1.000	A	H	R
5		Heptachlor	6.529	1.000	A	H	R
6		d-BHC	6.345	1.000	Q	H	R
7		Aldrin	6.769	1.000	A	H	R
8		Heptachlor Expoxide	7.230	1.000	A	H	R
9		trans-Chlordane	7.326	1.000	A	H	R
10		cis-Chlordane	7.423	1.000	A	H	R
11		Endosulfan I	7.518	1.000	A	H	R
12		4,4'-DDE	7.490	1.000	A	H	R
13		Dieldrin	7.691	1.000	A	H	R
14		Endrin	7.854	1.000	A	H	R
15		4,4'-DDD	7.910	1.000	A	H	R
16		Endosulfan II	8.011	1.000	A	H	R
17		4,4'-DDT	8.109	1.000	A	H	R
18		Endrin Aldehyde	8.302	1.000	A	H	R
19		Endosulfan Sulfate	8.603	1.000	A	H	R
20		Methoxychlor	8.452	1.000	A	H	R
21		Endrin Ketone	8.797	1.000	A	H	R
22	S	DCBP (S)	9.507	1.000	Q	H	R
23		Hexachlorobutadiene	3.080	1.000	A	H	R
24		Hexachlorobenzene	5.678	1.000	A	H	R
25		Oxychlordane	7.157	1.000	Q	H	R
26		2,4'-DDE	7.238	1.000	A	H	R
27		trans-Nonachlor	7.414	1.000	A	H	R
28		2,4'-DDD	7.610	1.000	A	H	R
29		2,4'-DDT	7.793	1.000	A	H	R
30		cis-Nonachlor	7.885	1.000	A	H	R
31		Mirex	8.550	1.000	Q	H	R
32		Chlordane (1)	7.326	1.000	A	H	R
33		Chlordane (2)	7.419	1.000	A	H	R
34		Chlordane (3)	7.966	1.000	A	H	R
35		Chlordane - AVE	0.000	1.000	A	H	R
36		Toxaphene (1)	7.399	1.000	A	H	R
37		Toxaphene (2)	7.691	1.000	A	H	R
38		Toxaphene (3)	8.002	1.000	Q	H	R
39		Toxaphene (4)	8.244	1.000	Q	H	R
40		Toxaphene (5)	8.471	1.000	A	H	R
41		Toxaphene (6)	8.538	1.000	A	H	R
42		Toxaphene - AVE	0.000	1.000	A	H	R
43		Signal #2	3.787	1.000	A	H	R
44	S	TCMX (S) #2	5.981	1.000	A	H	R
45		a-BHC #2	6.584	1.000	Q	H	R
46		g-BHC #2	6.902	1.000	Q	H	R
47		b-BHC #2	6.966	1.000	A	H	R
48		Heptachlor #2	7.276	1.000	A	H	R
49		d-BHC #2	7.220	1.000	Q	H	R
50		Aldrin #2	7.542	1.000	Q	H	R
51		Heptachlor Expoxide #2	7.979	1.000	A	H	R
52		trans-Chlordane #2	8.119	1.000	A	H	R
53		cis-Chlordane #2	8.226	1.000	A	H	R
54		Endosulfan I #2	8.277	1.000	A	H	R
55		4,4'-DDE #2	8.331	1.000	Q	H	R
56		Dieldrin #2	8.477	1.000	Q	H	R

57		Endrin #2	8.705	1.000	Q	H	R
58		4,4'-DDD #2	8.748	1.000	Q	H	R
59		Endosulfan II #2	8.853	1.000	Q	H	R
60		4,4'-DDT #2	8.974	1.000	Q	H	R
61		Endrin Aldehyde #2	9.089	1.000	A	H	R
62		Endosulfan Sulfate #2	9.281	1.000	Q	H	R
63		Methoxychlor #2	9.453	1.000	Q	H	R
64		Endrin Ketone #2	9.682	1.000	Q	H	R
65	S	DCBP (S) #2	10.537	1.000	Q	H	R
66		Hexachlorobutadiene #2	3.680	1.000	A	H	R
67		Hexachlorobenzene #2	6.447	1.000	Q	H	R
68		Oxychlordane #2	7.907	1.000	A	H	R
69		2,4'-DDE #2	8.110	1.000	A	H	R
70		trans-Nonachlor #2	8.181	1.000	A	H	R
71		2,4'-DDD #2	8.483	1.000	A	H	R
72		2,4'-DDT #2	8.708	1.000	Q	H	R
73		cis-Nonachlor #2	8.748	1.000	A	H	R
74		Mirex #2	9.673	1.000	Q	H	R
75		Chlordane (1) #2	8.117	1.000	A	H	R
76		Chlordane (2) #2	8.225	1.000	A	H	R
77		Chlordane (3) #2	8.889	1.000	A	H	R
78		Chlordane - AVE #2	0.000	1.000	A	H	R
79		Toxaphene (1) #2	8.454	1.000	A	H	R
80		Toxaphene (2) #2	8.801	1.000	A	H	R
81		Toxaphene (3) #2	8.836	1.000	A	H	R
82		Toxaphene (4) #2	8.905	1.000	Q	H	R
83		Toxaphene (5) #2	9.081	1.000	A	H	R
84		Toxaphene (6) #2	9.463	1.000	A	H	R
85		Toxaphene - AVE #2	0.000	1.000	A	H	R

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

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:31 2020

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8
Last Update : Mon Feb 03 15:36:51 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD8-02012036.D 2 =ECD8-02012037.D 3 =ECD8-02012038.D 4 =ECD8-02012039.D 5 =ECD8-02012040.D
6 =ECD8-02012041.D 7 =ECD8-02012042.D 8 =ECD8-02012023.D 9 =ECD8-02012024.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	S	TCMX (S)	4.021	3.714	3.605	3.216	3.303	3.433	3.204	3.554	3.415	3.496 E6	7.49
2)		a-BHC	4.647	4.492	4.575	4.693	4.656	4.865	4.497	5.094	5.002	4.725 E6	4.57
3)		g-BHC	4.196	3.995	4.052	4.124	4.043	4.229	4.065	4.359	4.407	4.163 E6	3.50
4)		b-BHC	1.887	1.737	1.718	1.728	1.657	1.731	1.637	1.858	1.723	1.742 E6	4.71
5)		Heptachlor	4.427	4.223	4.052	4.001	3.990	4.151	3.846	4.163	4.138	4.110 E6	4.02
6)		d-BHC	2.893	2.800	3.178	3.344	3.397	3.748	3.648	4.199	4.131	3.482 E6	14.23
7)		Aldrin	4.236	4.023	3.939	4.004	3.955	4.077	3.909	4.209	4.012	4.041 E6	2.83
8)		Heptachlor Exp...	4.075	3.850	3.655	3.642	3.556	3.624	3.363	3.806	3.663	3.693 E6	5.42
9)		trans-Chlordane	4.014	3.866	3.617	3.633	3.645	3.694	3.627	3.928	3.822	3.761 E6	3.98
10)		cis-Chlordane	4.145	3.812	3.645	3.579	3.457	3.641	3.348	3.775	3.648	3.672 E6	6.21
11)		Endosulfan I	3.865	3.594	3.342	3.407	3.475	3.418	3.279	3.495	3.345	3.469 E6	5.07
12)		4,4'-DDE	3.258	2.976	3.182	3.180	3.207	3.307	3.360	3.787	3.629	3.321 E6	7.44
13)		Dieldrin	3.917	3.772	3.764	3.751	3.730	3.835	3.590	4.028	3.935	3.813 E6	3.43
14)		Endrin	3.403	3.308	3.220	3.231	3.135	3.314	3.101	3.384	3.276	3.264 E6	3.15
15)		4,4'-DDD	2.437	2.373	2.342	2.347	2.426	2.535	2.506	2.977	2.962	2.545 E6	9.79
16)		Endosulfan II	3.301	3.005	2.926	2.800	2.819	2.934	2.837	3.319	2.983	2.992 E6	6.49
17)		4,4'-DDT	2.704	2.498	2.454	2.527	2.469	2.724	2.696	2.988	3.136	2.688 E6	8.89
18)		Endrin Aldehyde	3.069	2.831	2.733	2.518	2.511	2.471	2.371	2.586	2.603	2.633 E6	8.12
19)		Endosulfan Sul...	3.097	2.922	2.793	2.769	2.704	2.801	2.677	3.045	2.953	2.862 E6	5.19
20)		Methoxychlor	1.301	1.197	1.134	1.113	1.123	1.159	1.135	1.331	1.366	1.207 E6	8.20
21)		Endrin Ketone	3.731	3.541	3.412	3.325	3.268	3.423	3.196	3.668	3.544	3.456 E6	5.21
22)	S	DCBP (S)	4.276	3.342	3.075	2.710	2.661	2.658	2.467	2.801	2.772	2.974 E6	18.56
23)		Hexachlorobuta...	4.557	4.206	3.987	4.002	3.838	3.491	3.731	3.510	3.761	3.898 E6	8.67
24)		Hexachlorobenzene	3.789	3.452	3.320	3.289	3.265	3.118	3.314	3.206	3.501	3.362 E6	5.88
25)		Oxychlordane	4.157	3.626	3.385	3.237	3.198	2.920	3.210	2.998	3.218	3.328 E6	11.17
26)		2,4'-DDE	2.580	2.295	2.244	2.349	2.280	2.088	2.327	2.230	2.414	2.312 E6	5.85
27)		trans-Nonachlor	4.338	3.769	3.785	3.623	3.588	3.273	3.540	3.440	3.640	3.666 E6	8.10
28)		2,4'-DDD	2.223	1.934	1.919	1.977	1.853	1.688	1.863	1.889	2.085	1.937 E6	7.79
29)		2,4'-DDT	2.837	2.374	2.364	2.375	2.293	2.144	2.342	2.299	2.510	2.393 E6	8.04
30)		cis-Nonachlor	4.594	4.089	4.142	4.121	4.044	3.662	4.002	3.793	4.178	4.069 E6	6.40
31)		Mirex	3.386	2.919	2.767	2.665	2.543	2.233	2.343	2.327	2.436	2.624 E6	13.82
32)		Chlordane (1)	4.222	3.866	4.098	3.992	3.885	4.071	3.900			4.005 E5	3.30
33)		Chlordane (2)	5.231	4.769	5.007	4.874	4.684	4.680	4.799			4.863 E5	4.07
34)		Chlordane (3)	1.478	1.272	1.303	1.294	1.236	1.265	1.266			1.302 E5	6.19
35)		Chlordane - AVE										0.000	-1.00
36)		Toxaphene (1)	1.695	1.724	1.687	1.605	1.525	1.713	1.509			1.637 E4	5.53
37)		Toxaphene (2)	3.573	3.364	3.172	3.039	2.857	3.129	2.857			3.142 E4	8.31
38)		Toxaphene (3)	9.230	7.765	7.108	6.978	6.766	7.487	6.743			7.439 E4	11.74
39)		Toxaphene (4)	1.101	0.734	0.686	0.678	0.634	0.713	0.645			0.741 E5	21.88
40)		Toxaphene (5)	5.859	5.396	5.268	5.362	5.091	5.760	5.204			5.420 E4	5.28
41)		Toxaphene (6)	8.445	7.582	7.293	7.412	7.198	8.043	7.265			7.605 E4	6.15
42)		Toxaphene - AVE										0.000	-1.00

MJP 2/3/20

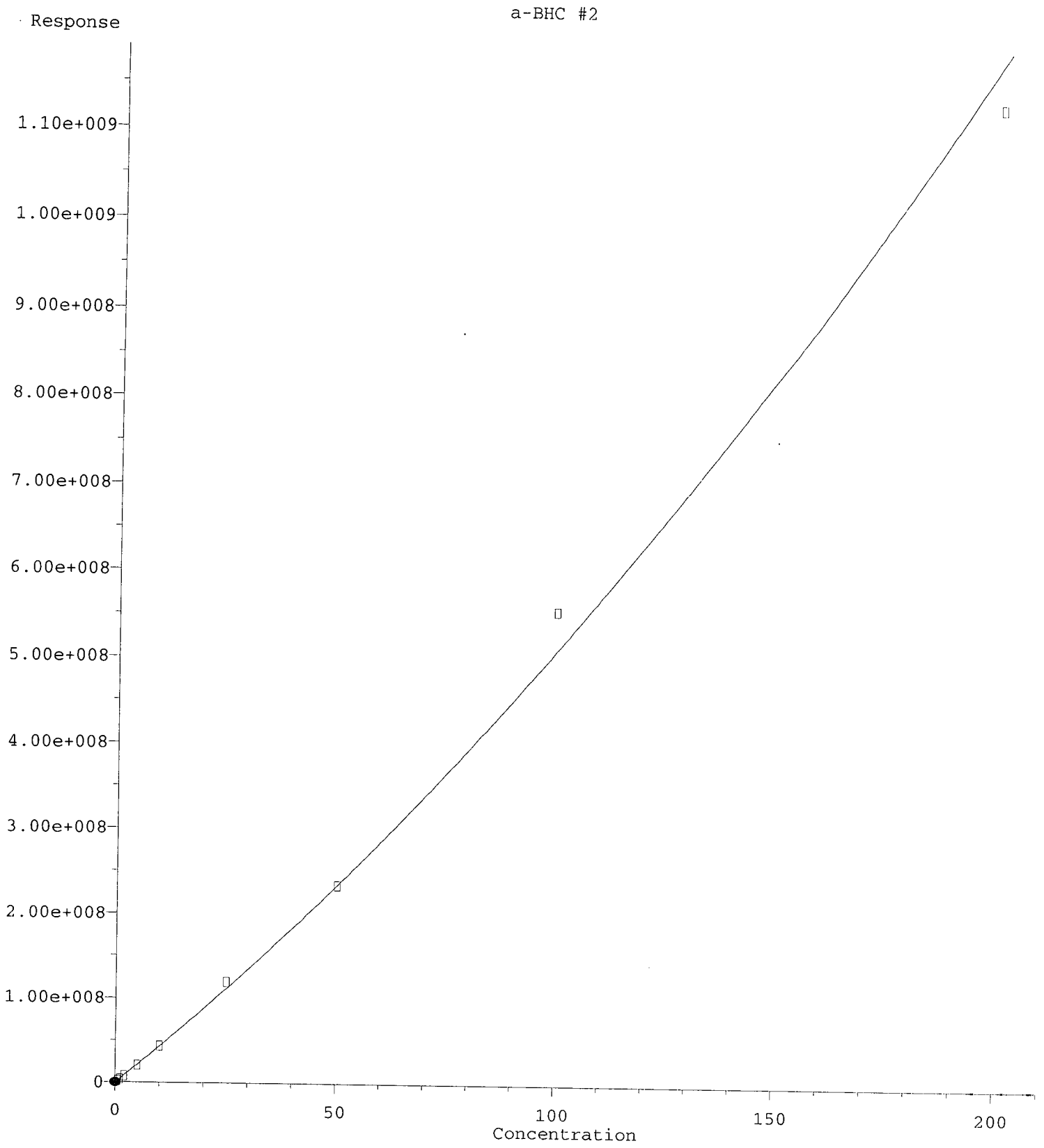
Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_200201.M
Title : Instrument: DualECD8

Signal #2 Calibration Files
1 =ECD8-02012036.D 2 =ECD8-02012037.D 3 =ECD8-02012038.D
4 =ECD8-02012039.D 5 =ECD8-02012040.D 6 =ECD8-02012041.D

		Compound	1	2	3	4	5	6	Avg	%RSD
44)	S	TCMX (S) #2	3.615	3.326	3.232	3.006	3.188	3.406	3.366	3.864 4.042 3.450 E6 9.65
45)		a-BHC #2	3.814	3.754	3.796	4.050	4.349	4.768	4.666	5.537 5.667 4.489 E6 16.30
46)		g-BHC #2	3.716	3.614	3.572	3.781	3.852	4.314	4.236	4.913 4.902 4.100 E6 12.77
47)		b-BHC #2	1.743	1.673	1.697	1.560	1.606	1.713	1.706	1.968 1.959 1.736 E6 8.12
48)		Heptachlor #2	4.334	4.012	3.806	3.874	3.874	4.179	4.218	4.770 4.830 4.211 E6 8.97
49)		d-BHC #2	3.050	2.822	3.180	3.257	3.456	4.038	3.858	4.722 4.698 3.676 E6 18.98
50)		Aldrin #2	3.775	3.540	3.606	3.652	3.695	4.132	3.917	4.720 4.644 3.965 E6 11.20
51)		Heptachlor Exp...	3.659	3.563	3.192	3.333	3.369	3.628	3.578	4.043 3.944 3.590 E6 7.70
52)		trans-Chlordan...	3.848	3.473	3.412	3.413	3.495	3.764	3.625	4.327 4.109 3.718 E6 8.75
53)		cis-Chlordane #2	3.704	3.361	3.207	3.212	3.205	3.640	3.461	3.951 3.964 3.523 E6 8.70
54)		Endosulfan I #2	3.179	3.093	3.044	2.996	3.065	3.426	3.349	3.925 3.669 3.305 E6 9.66
55)		4,4'-DDE #2	2.692	2.685	2.835	2.972	3.020	3.471	3.504	4.059 4.176 3.268 E6 17.29
56)		Dieldrin #2	3.423	3.204	3.278	3.379	3.498	3.835	3.843	4.251 4.356 3.674 E6 11.43
57)		Endrin #2	2.998	2.810	2.774	2.775	2.916	3.176	3.080	3.545 3.693 3.085 E6 10.83
58)		4,4'-DDD #2	2.239	2.115	2.175	2.251	2.276	2.607	2.730	3.301 3.398 2.566 E6 19.03
59)		Endosulfan II #2	2.885	2.617	2.599	2.537	2.594	2.921	2.923	3.419 3.424 2.880 E6 11.88
60)		4,4'-DDT #2	2.721	2.317	2.368	2.327	2.513	2.821	2.768	3.403 3.532 2.752 E6 16.32
61)		Endrin Aldehyd...	3.113	2.605	2.613	2.368	2.362	2.438	2.470	2.900 2.925 2.644 E6 10.32
62)		Endosulfan Sul...	3.070	2.491	2.606	2.504	2.504	2.806	2.701	3.154 3.303 2.793 E6 11.10
63)		Methoxychlor #2	1.963	1.214	1.310	1.130	1.087	1.207	1.206	1.490 1.522 1.347 E6 20.39
64)		Endrin Ketone #2	4.271	3.122	3.046	2.880	2.883	3.178	3.135	3.637 3.685 3.315 E6 13.87
65)	S	DCBP (S) #2	4.242	2.620	2.686	2.249	2.164	2.161	2.076	2.400 2.388 2.554 E6 26.09
66)		Hexachlorobuta...	5.188	4.879	4.653	4.750	4.709	4.384	4.983	4.691 5.340 4.842 E6 6.04
67)		Hexachlorobenz...	3.232	2.946	2.887	3.082	2.853	2.891	3.371	3.276 3.912 3.161 E6 10.74
68)		Oxychlordane #2	3.635	3.175	3.025	3.102	2.989	2.863	3.214	3.128 3.652 3.198 E6 8.55
69)		2,4'-DDE #2	2.400	2.104	2.130	2.181	2.196	2.045	2.343	2.384 2.673 2.273 E6 8.65
70)		trans-Nonachlo...	4.009	3.680	3.415	3.397	3.440	3.232	3.584	3.676 4.052 3.610 E6 7.71
71)		2,4'-DDD #2	1.922	1.795	1.840	1.860	1.806	1.718	1.985	1.955 2.347 1.914 E6 9.53
72)		2,4'-DDT #2	2.420	2.100	2.094	2.272	2.214	2.149	2.455	2.536 2.918 2.351 E6 11.32
73)		cis-Nonachlor #2	4.169	3.802	3.676	3.917	3.833	3.615	4.185	3.989 4.681 3.985 E6 8.18
74)		Mirex #2	2.952	2.855	2.435	2.293	2.096	1.911	2.097	2.042 2.398 2.342 E6 15.43
75)		Chlordane (1) #2	4.085	4.027	4.333	4.184	4.359	4.611	4.814	4.345 E5 6.55
76)		Chlordane (2) #2	3.718	3.182	3.522	3.534	3.639	3.848	4.005	3.636 E5 7.25
77)		Chlordane (3) #2	1.247	1.143	1.165	1.107	1.170	1.188	1.293	1.188 E5 5.31
78)		Chlordane - AV...								0.000 -1.00
79)		Toxaphene (1) #2	2.739	2.916	3.040	2.992	2.798	3.202	2.942	2.947 E4 5.22
80)		Toxaphene (2) #2	3.641	3.799	4.024	4.148	3.875	4.495	4.150	4.019 E4 6.98
81)		Toxaphene (3) #2	6.944	6.246	6.232	6.203	6.017	7.001	6.646	6.470 E4 6.05
82)		Toxaphene (4) #2	1.372	1.007	1.008	0.998	0.977	1.141	1.063	1.081 E5 12.95
83)		Toxaphene (5) #2	5.743	5.395	5.637	5.743	5.410	6.308	5.894	5.733 E4 5.45
84)		Toxaphene (6) #2	7.494	6.319	6.347	6.338	6.090	7.067	6.582	6.605 E4 7.54
85)		Toxaphene - AV...								0.000 -1.00

(#) = Out of Range

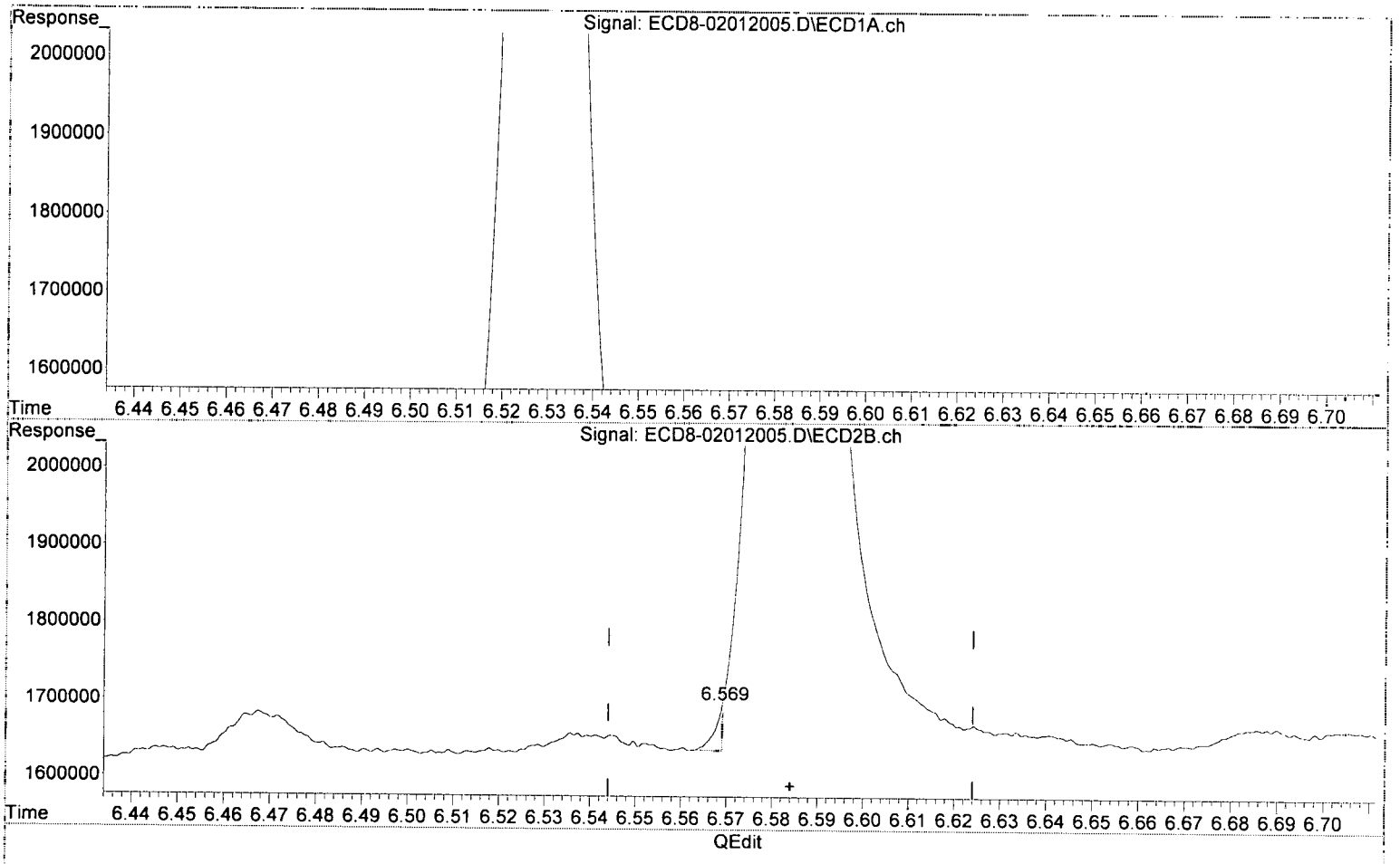


R = 8.27e+003 A*A + 4.27e+006 A - 3.23e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(2) a-BHC

5.836min 0.492 ng/mL

response 2323532

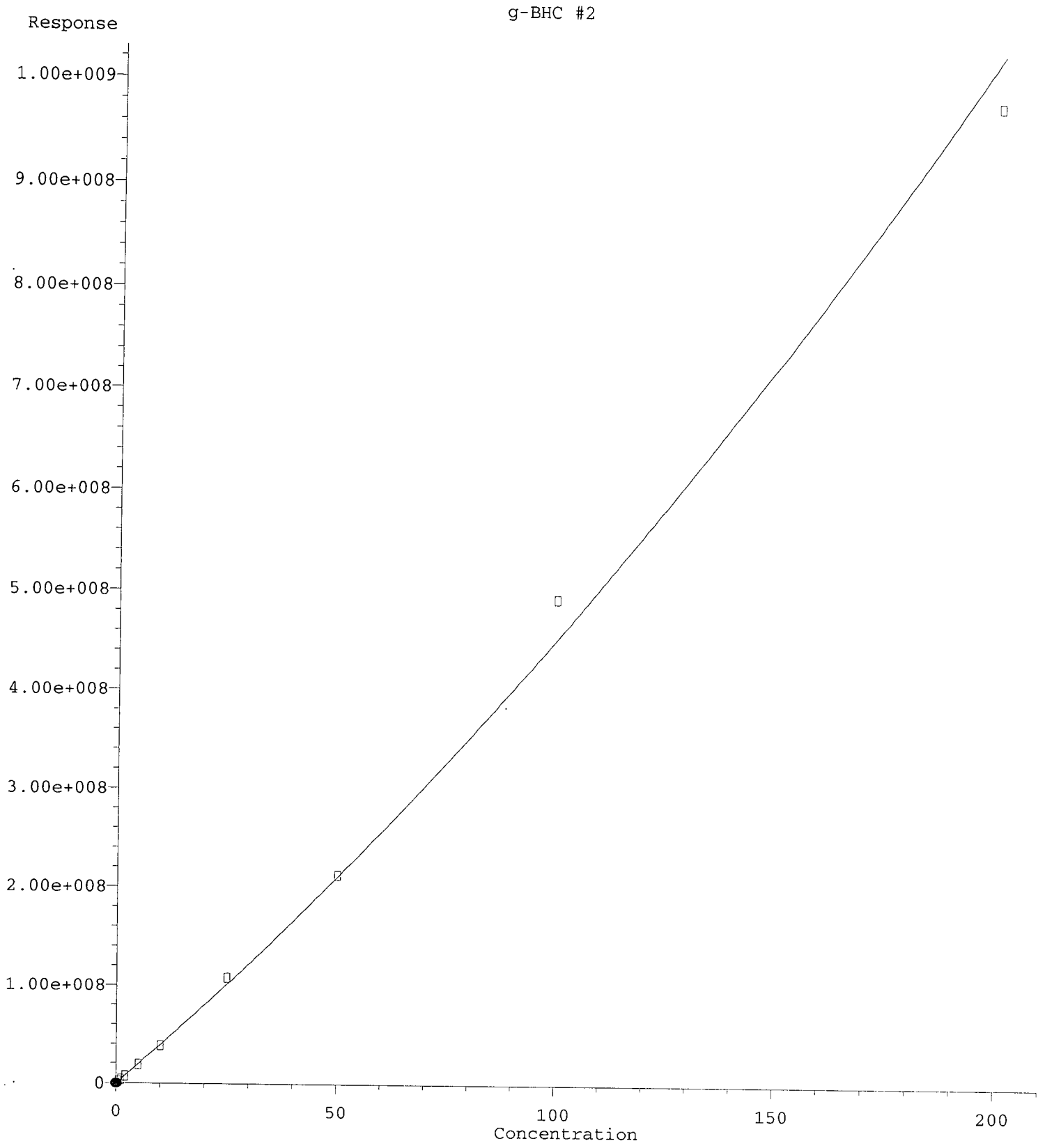
MJB 2/3/20

(2) a-BHC #2

6.569min 0.090 ng/mL

response 59842

(+) = Expected Retention Time

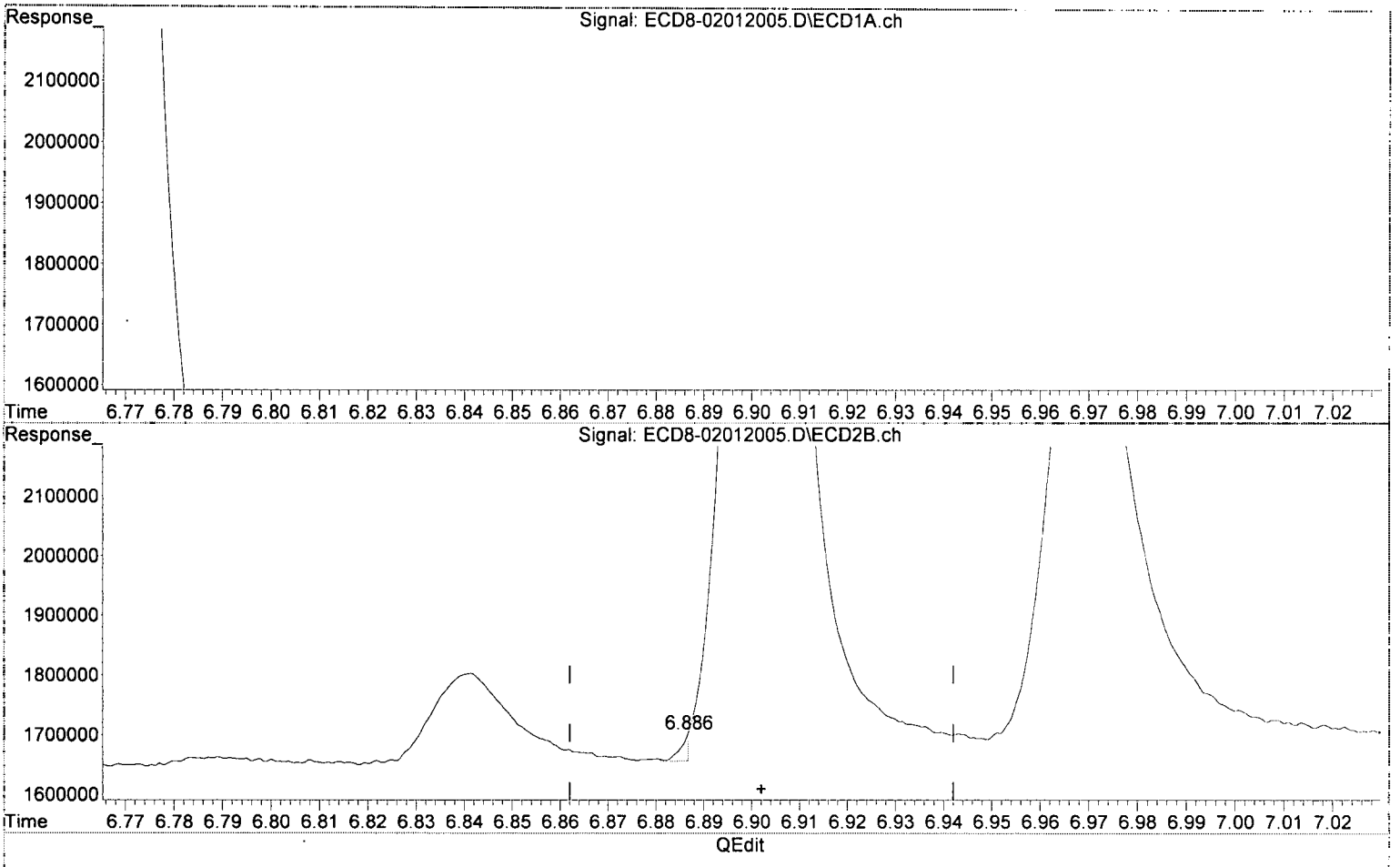


R = 6.15e+003 A*A + 3.90e+006 A - 1.64e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(3) g-BHC

6.120min 0.504 ng/mL

response 2098226

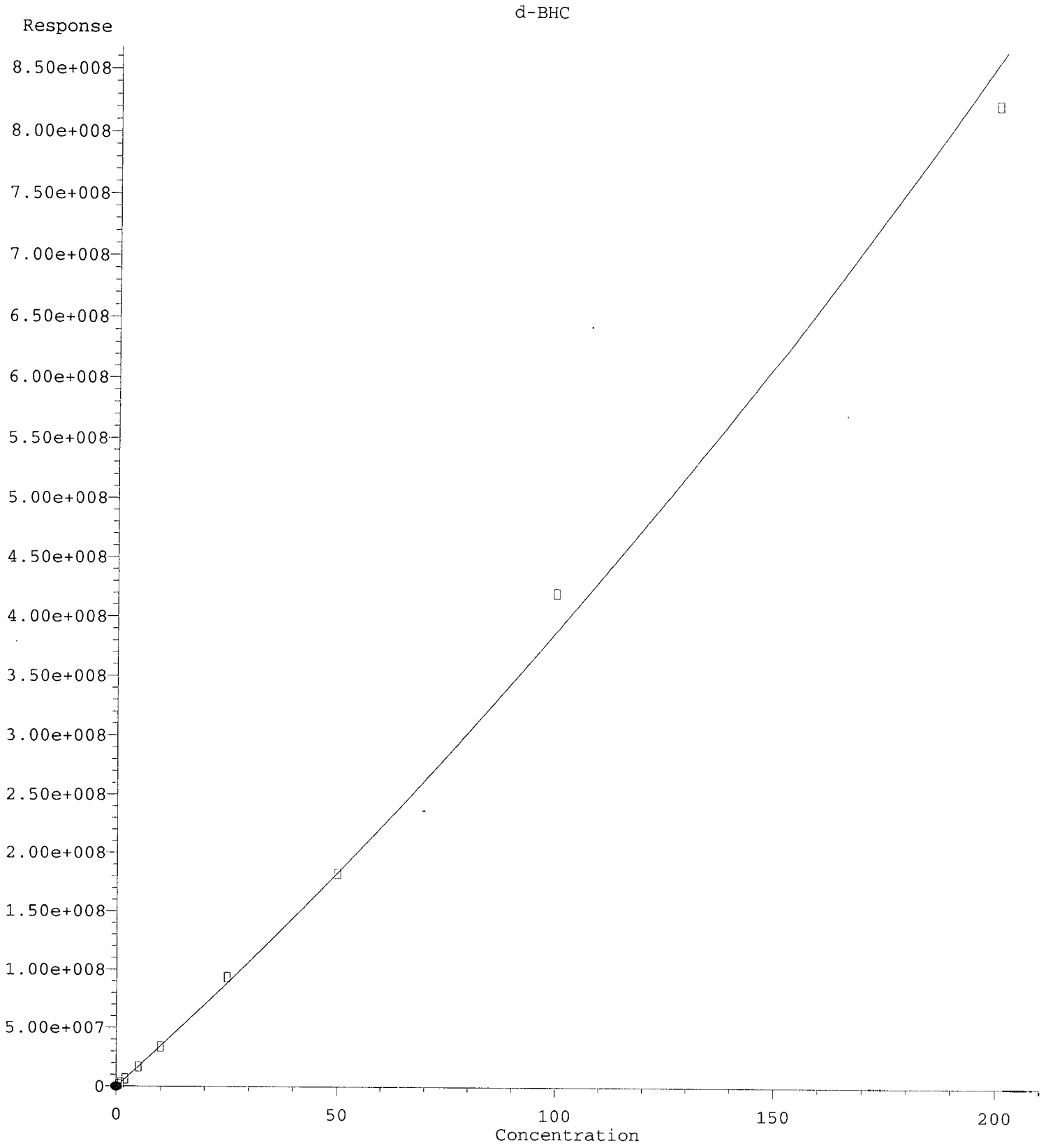
MJB 2/3/20

(3) g-BHC #2

6.886min 0.052 ng/mL m

response 37568

(+) = Expected Retention Time

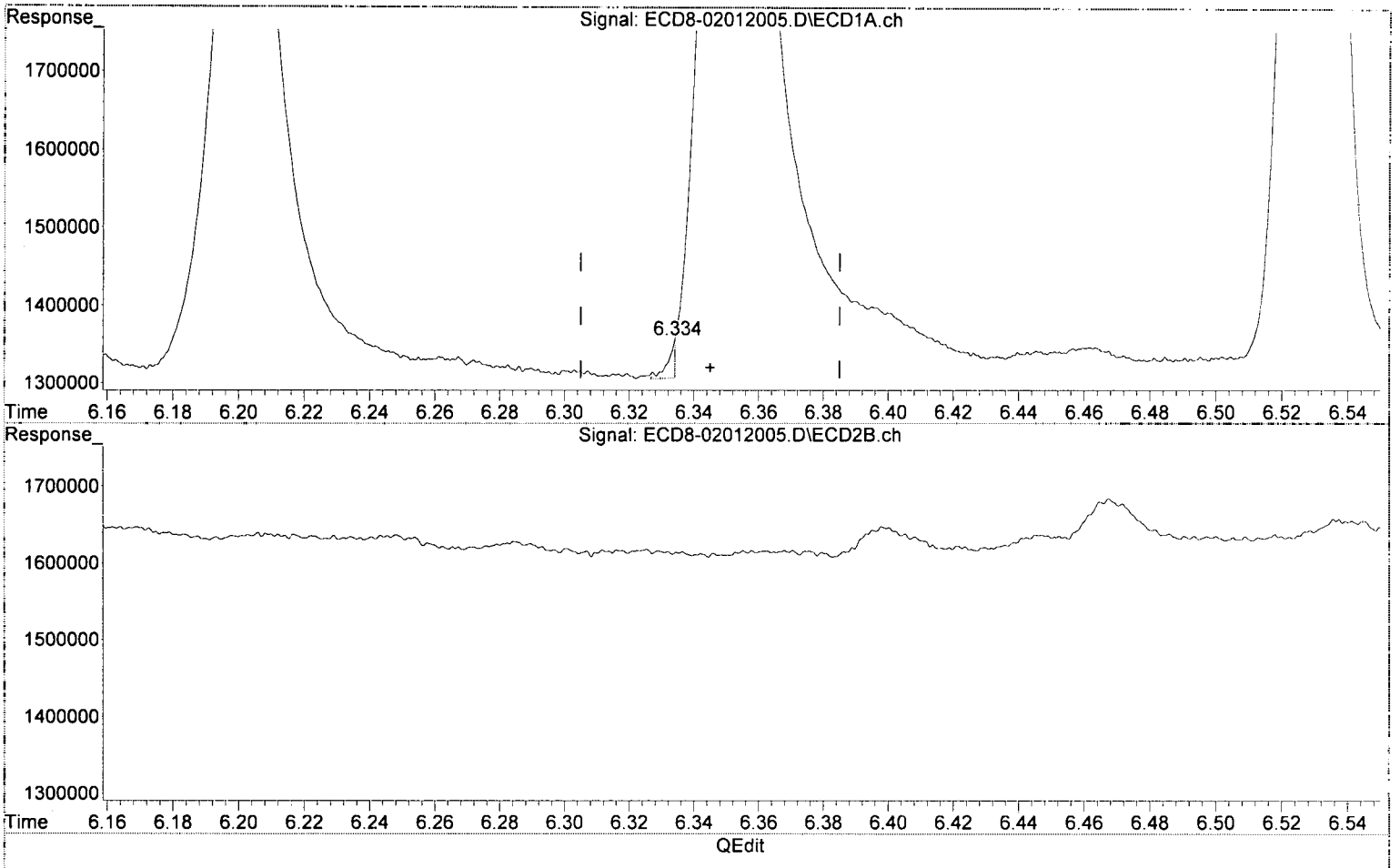


R = 4.28e+003 A*A + 3.45e+006 A - 3.68e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(6) d-BHC

6.334min 0.121 ng/mL m

response 50088

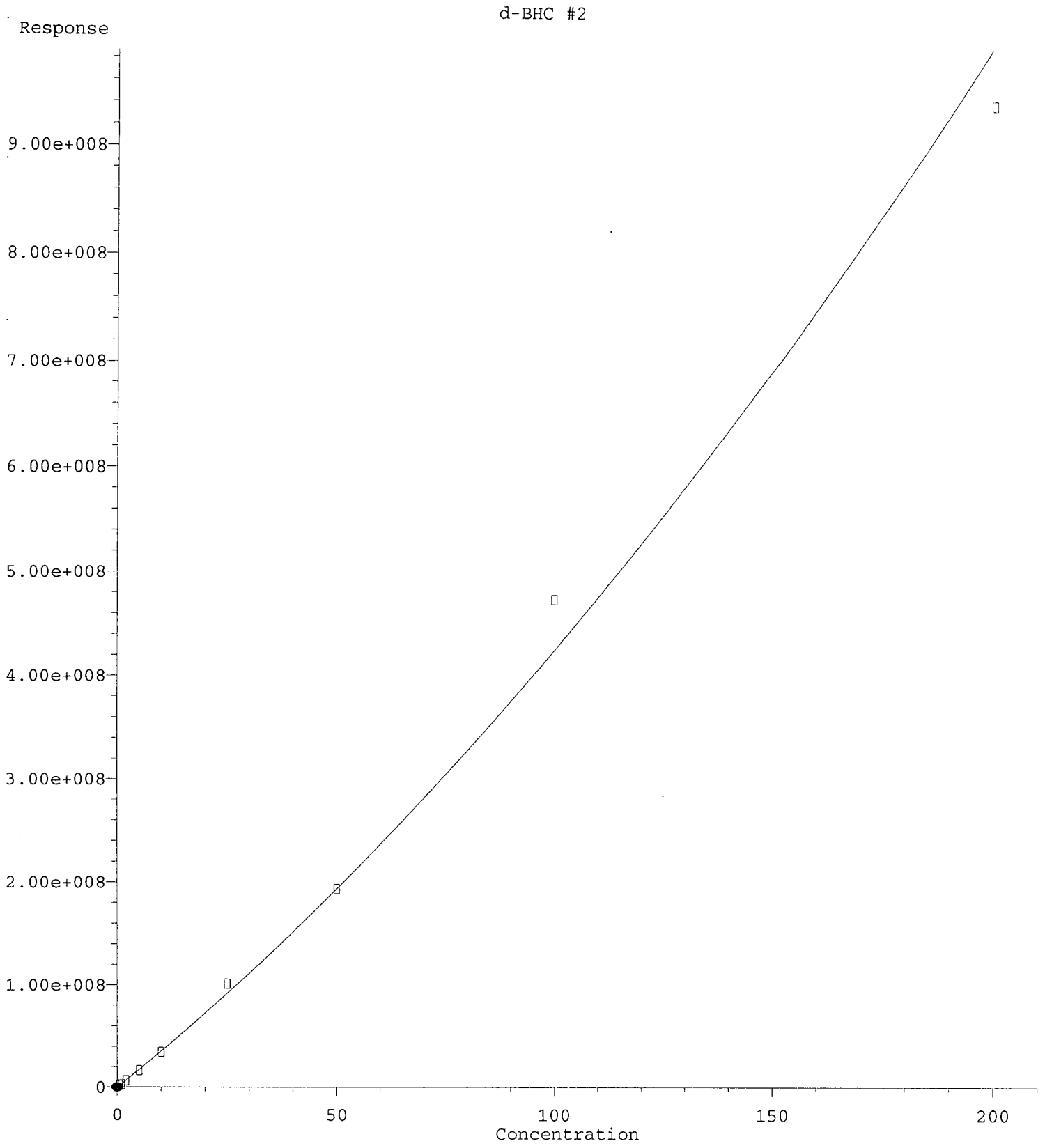
MB 2/3/20

(6) d-BHC #2

7.224min 0.533 ng/mL

response 1525163

(+) = Expected Retention Time

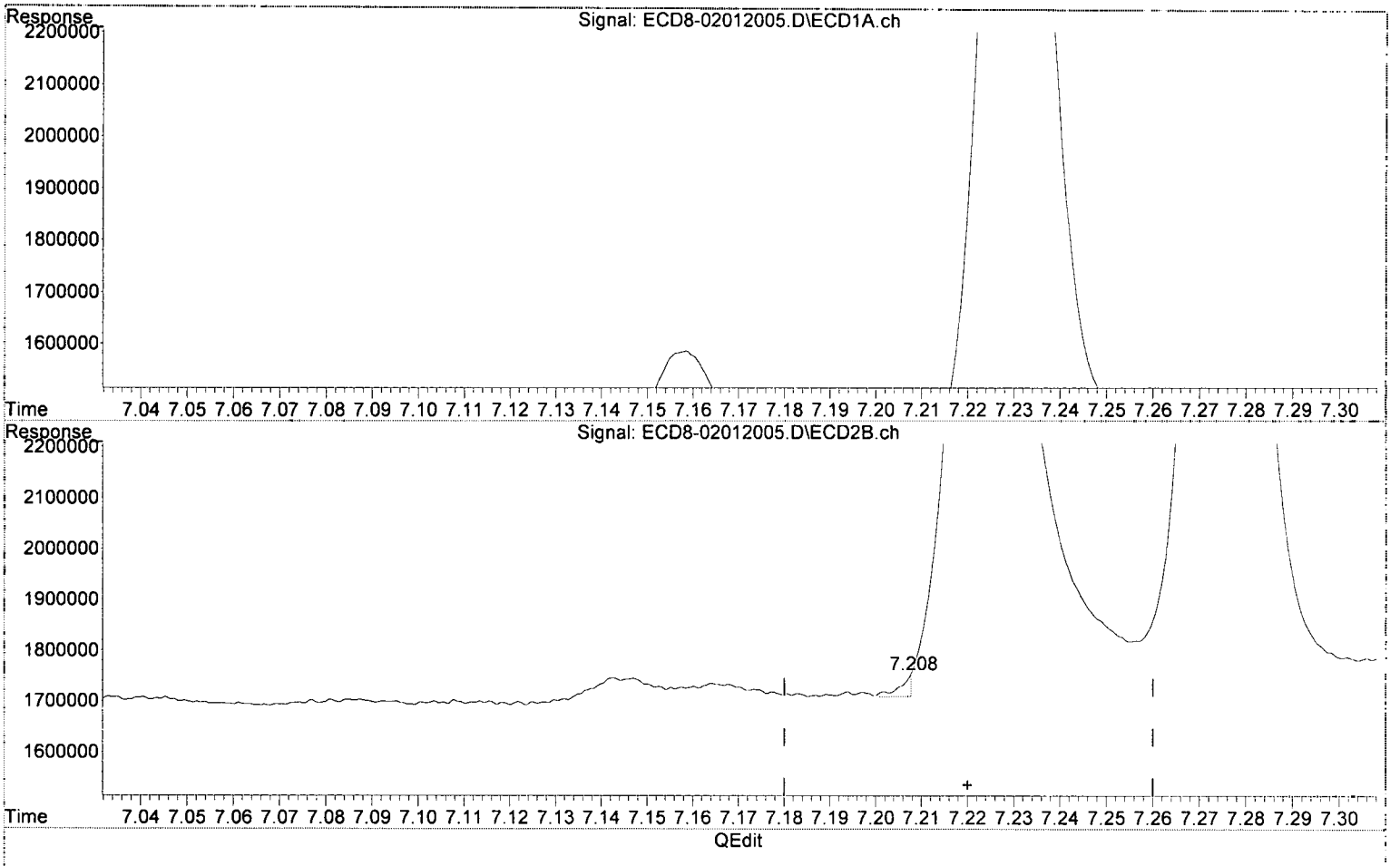


R = 7.38e+003 A*A + 3.50e+006 A - 3.41e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(6) d-BHC

6.334min 0.121 ng/mL m

response 50088

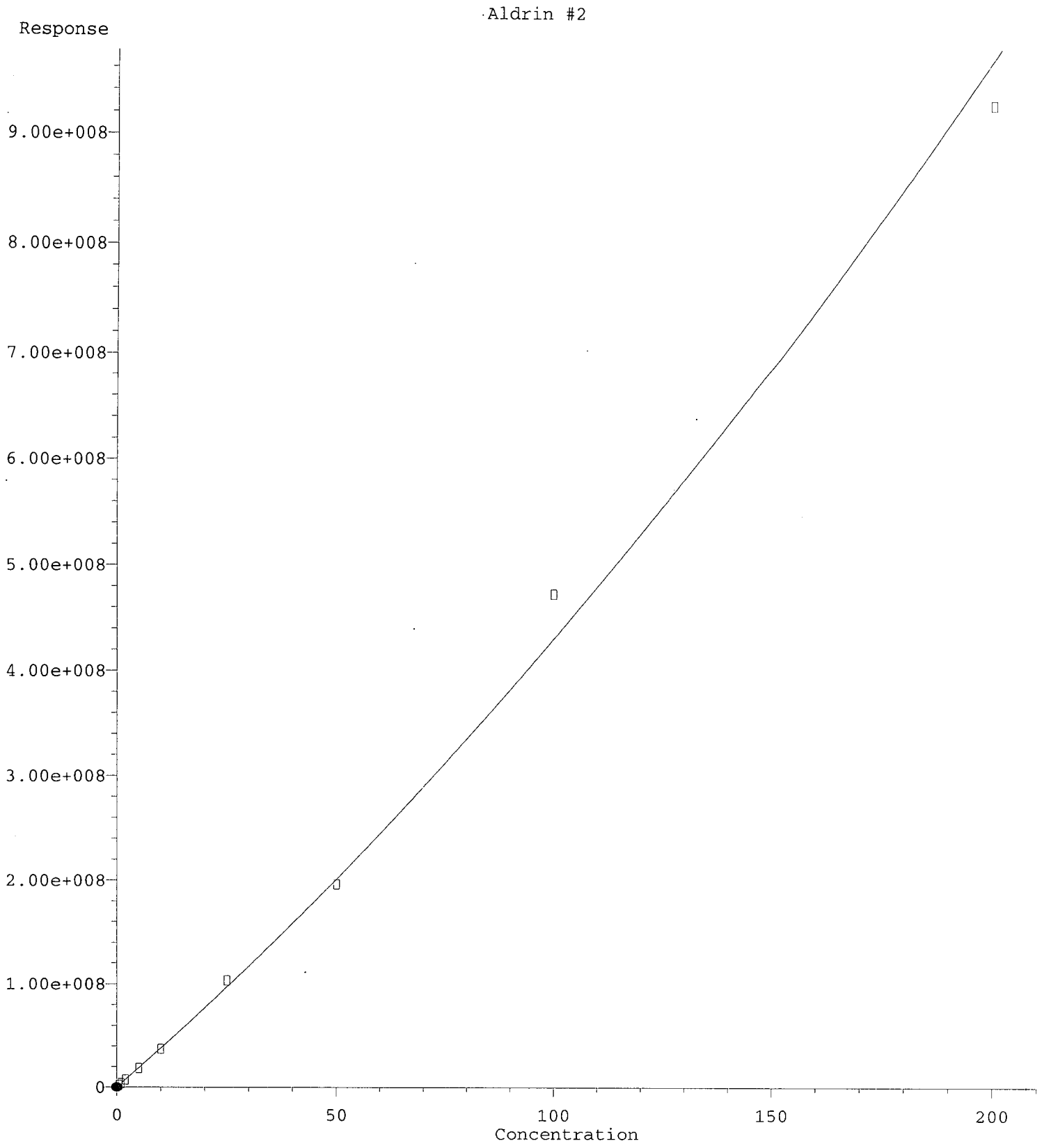
MJB 2/3/20

(6) d-BHC #2

7.208min 0.110 ng/mL (m)

response 42952

(+) = Expected Retention Time

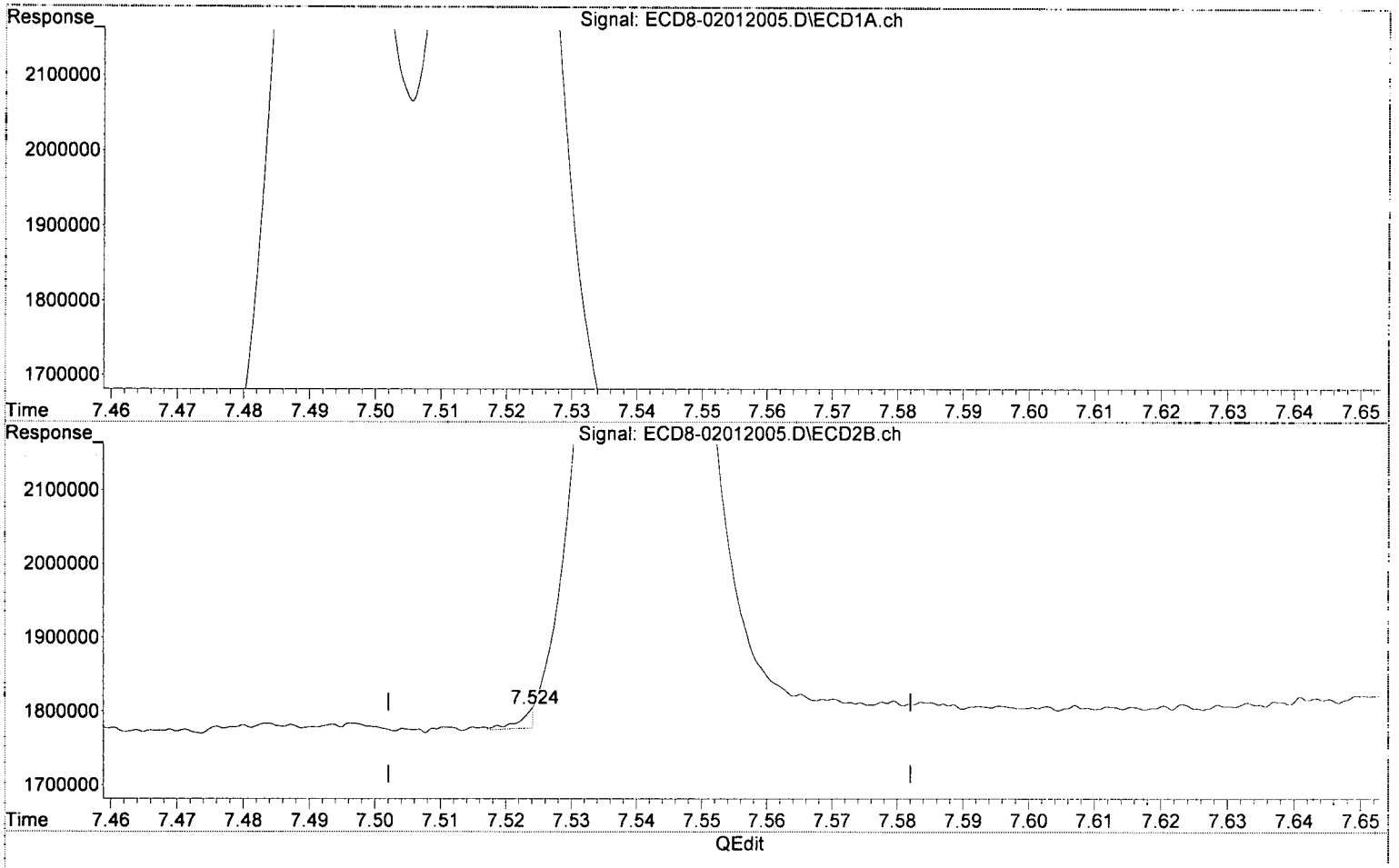


R = 5.56e+003 A*A + 3.74e+006 A - 4.51e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(7) Aldrin

6.769min 0.524 ng/mL

response 2117773

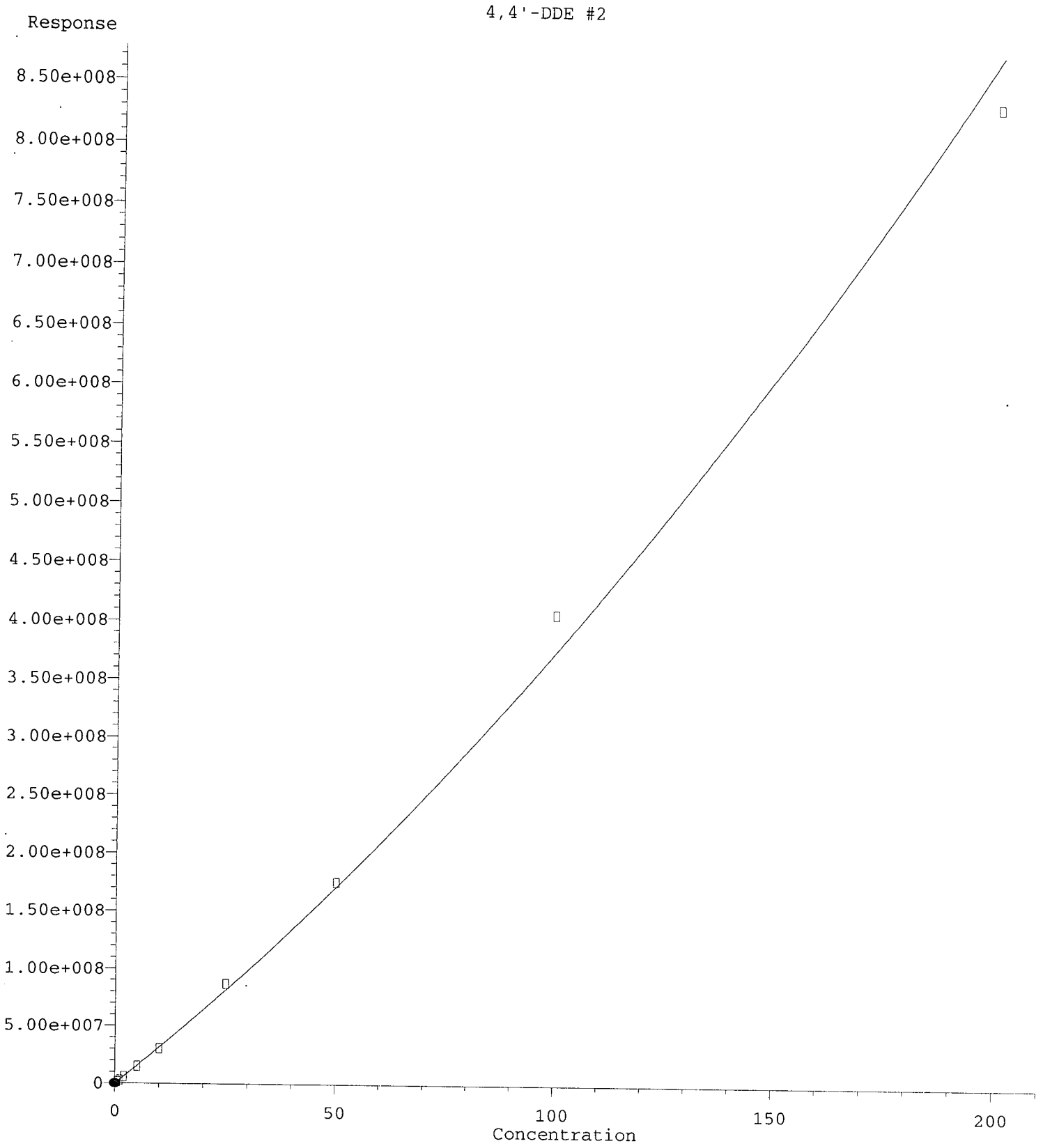
MB 2/3/20

(7) Aldrin #2

7.524min 0.019 ng/mL (m)

response 26735

(+) = Expected Retention Time

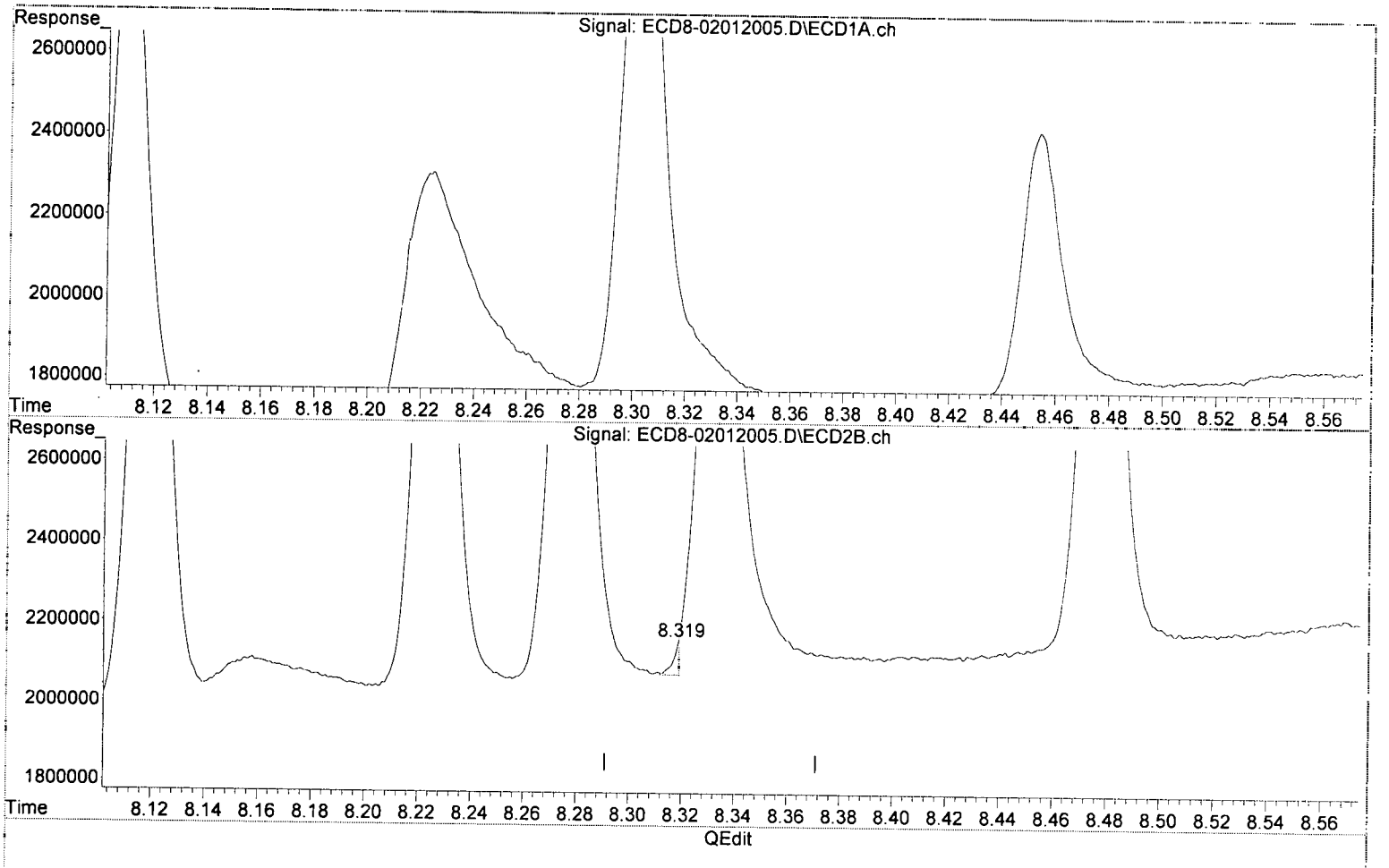


R = 6.32e+003 A*A + 3.11e+006 A - 2.74e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE

7.493min 0.491 ng/mL

response 1628951

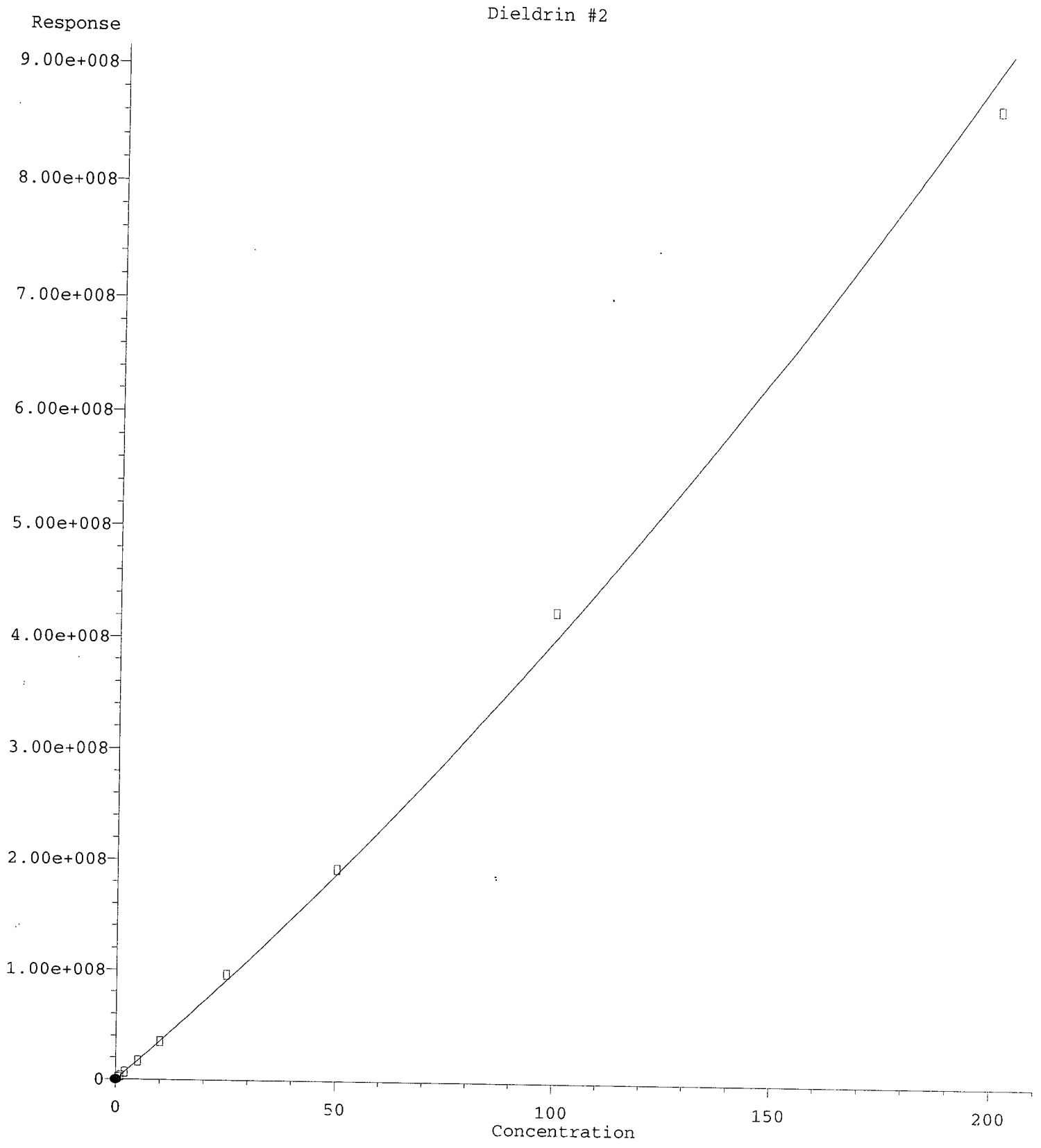
MJB 2/3/20

(12) 4,4'-DDE #2

8.319min 0.115 ng/mL (m)

response 84324

(+) = Expected Retention Time

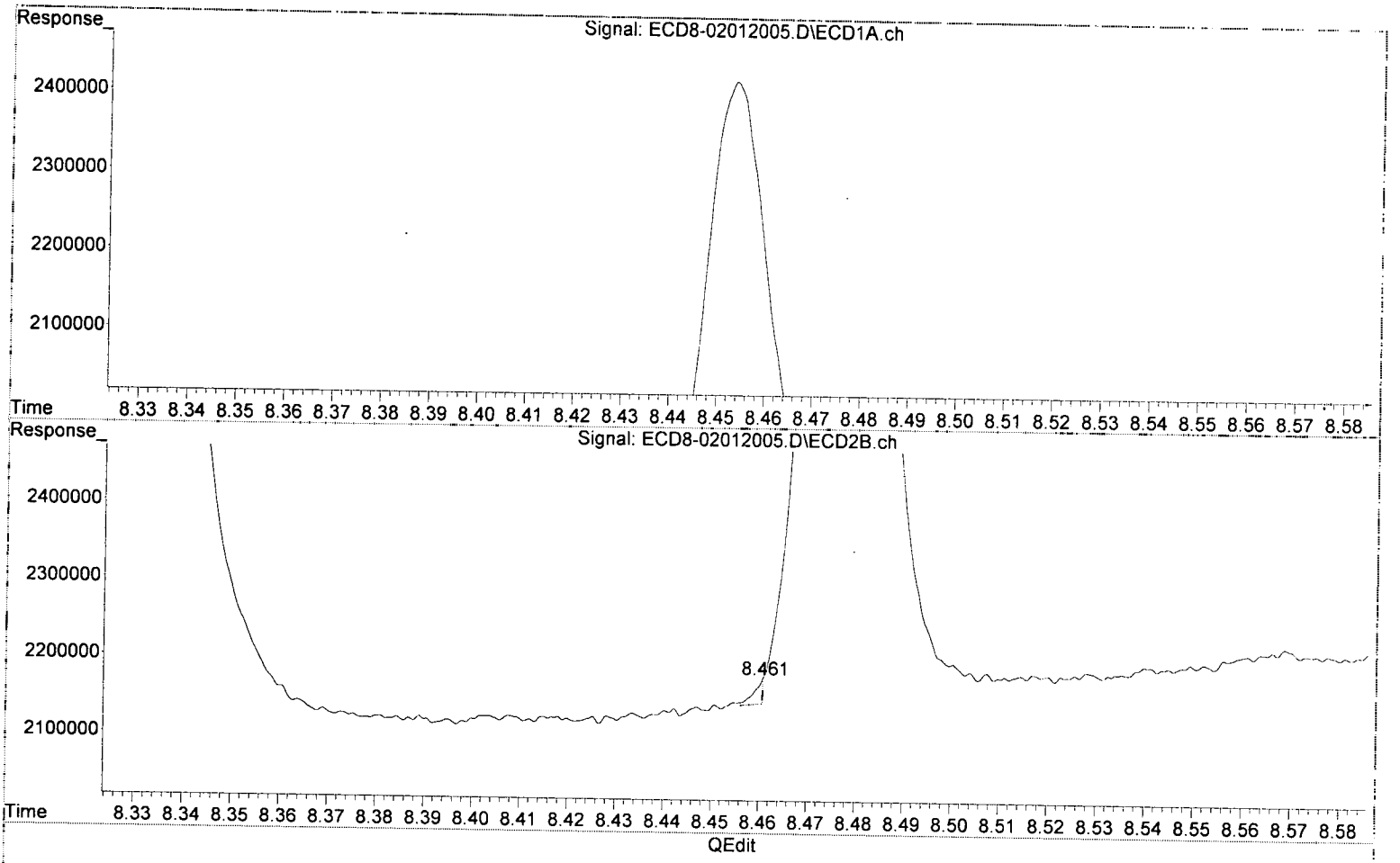


R = 5.10e+003 A*A + 3.50e+006 A - 1.13e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(13) Dieldrin

7.691min 0.514 ng/mL

response 1958633

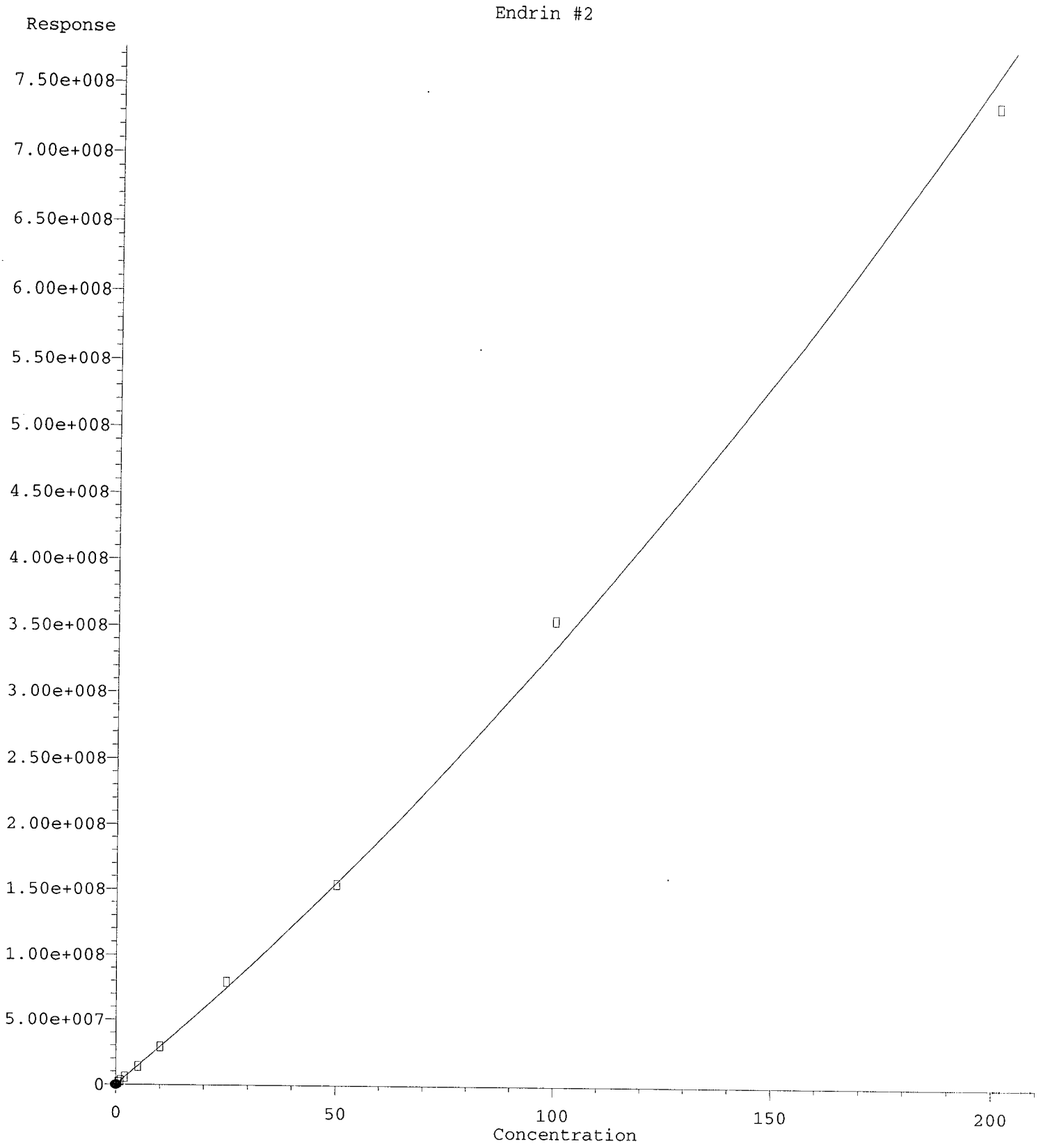
MJB 2/3/20

(13) Dieldrin #2

8.461min 0.041 ng/mL (m)

response 30875

(+) = Expected Retention Time

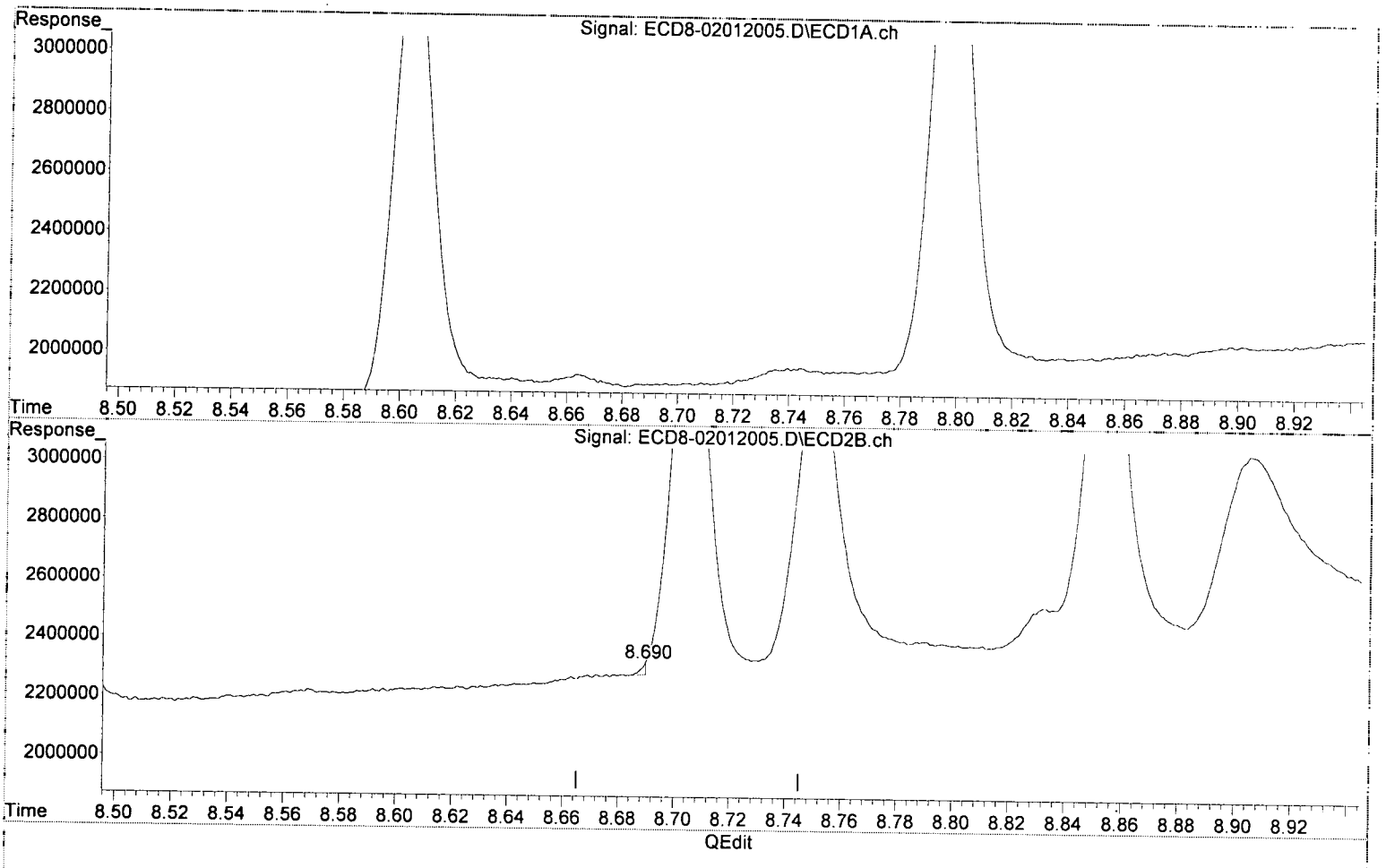


R = 4.68e+003 A*A + 2.87e+006 A + 2.17e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(14) Endrin

7.854min 0.521 ng/mL

response 1701747

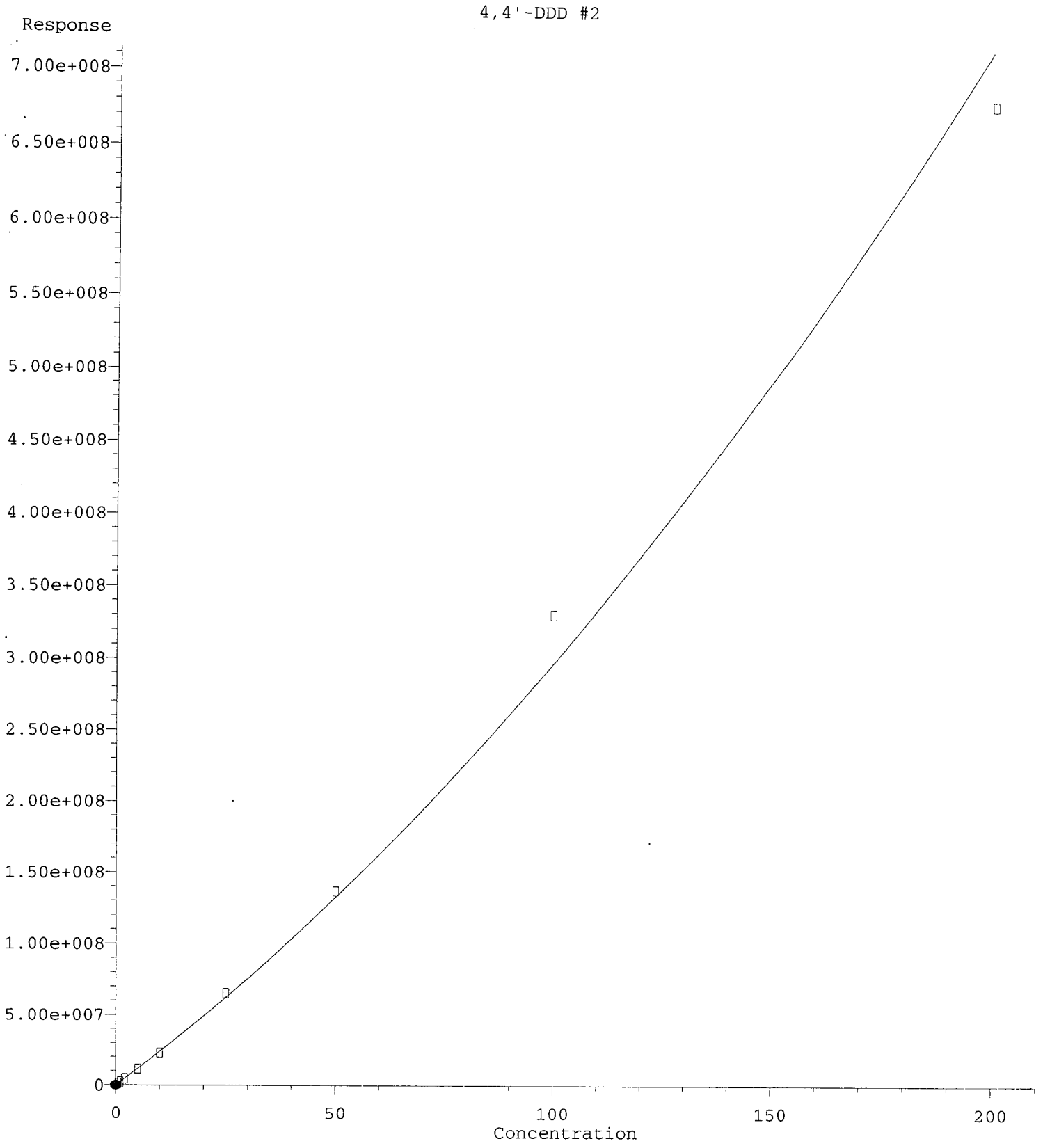
MB 2/3/20

(14) Endrin #2

8.690min 0.007 ng/mL (m)

response 40887

(+) = Expected Retention Time

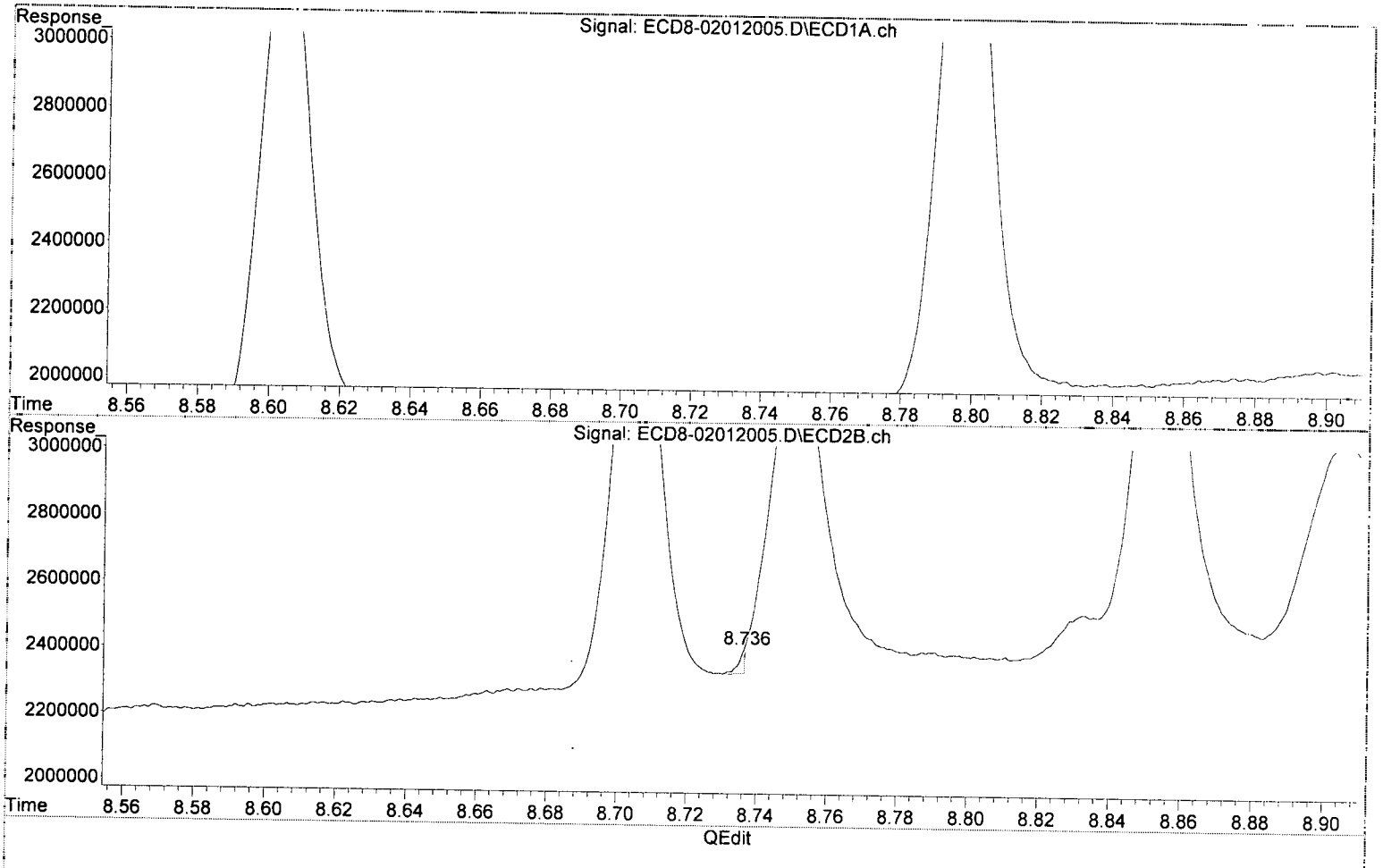


R = 6.31e+003 A*A + 2.33e+006 A - 1.00e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD

7.915min 0.479 ng/mL

response 1218671

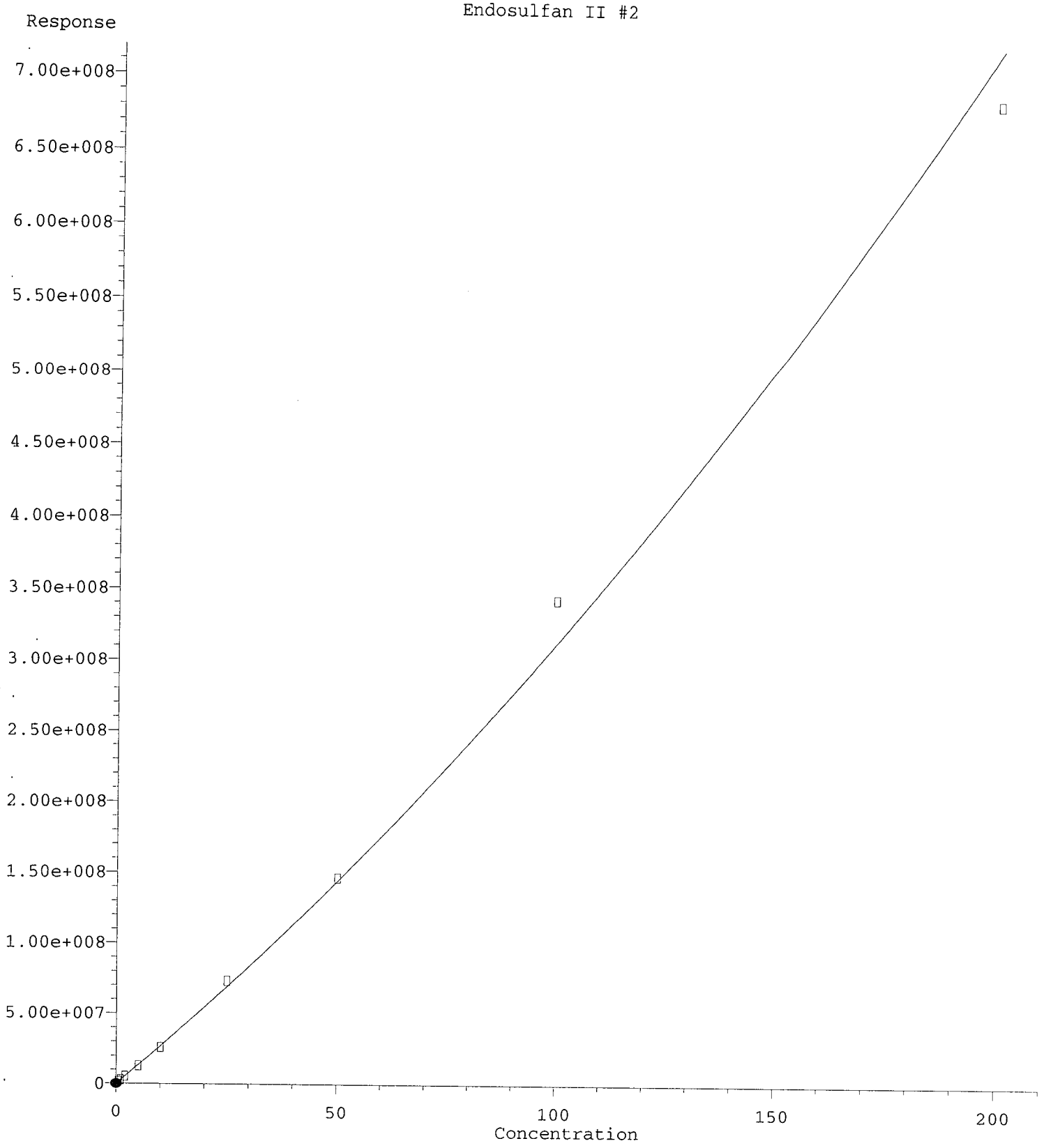
MWB 2/3/20

(15) 4,4'-DDD #2

8.736min 0.075 ng/mL (m)

response 74855

(+) = Expected Retention Time

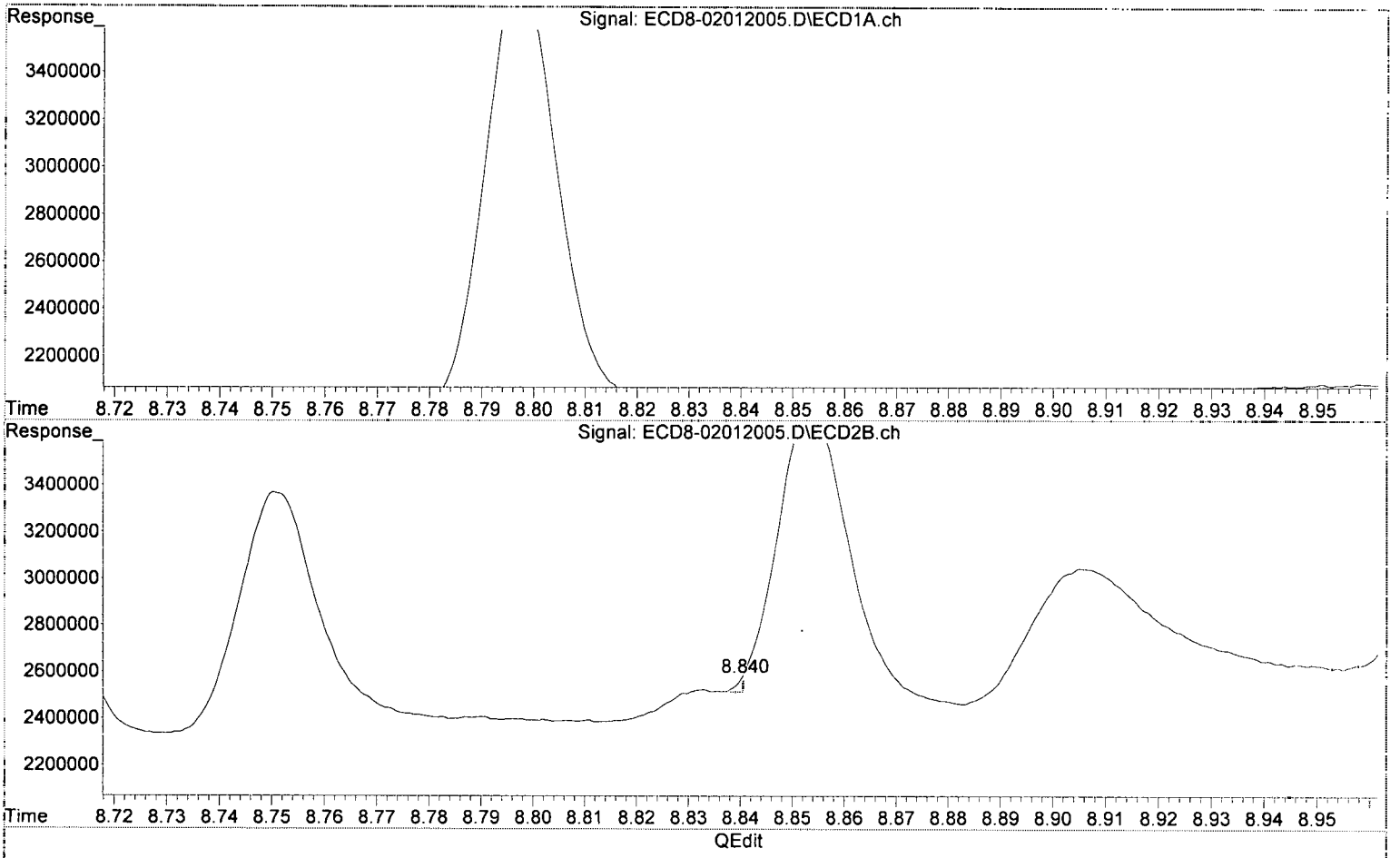


R = 4.81e+003 A*A + 2.64e+006 A + 8.03e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(16) Endosulfan II

8.013min 0.552 ng/mL

response 1650694

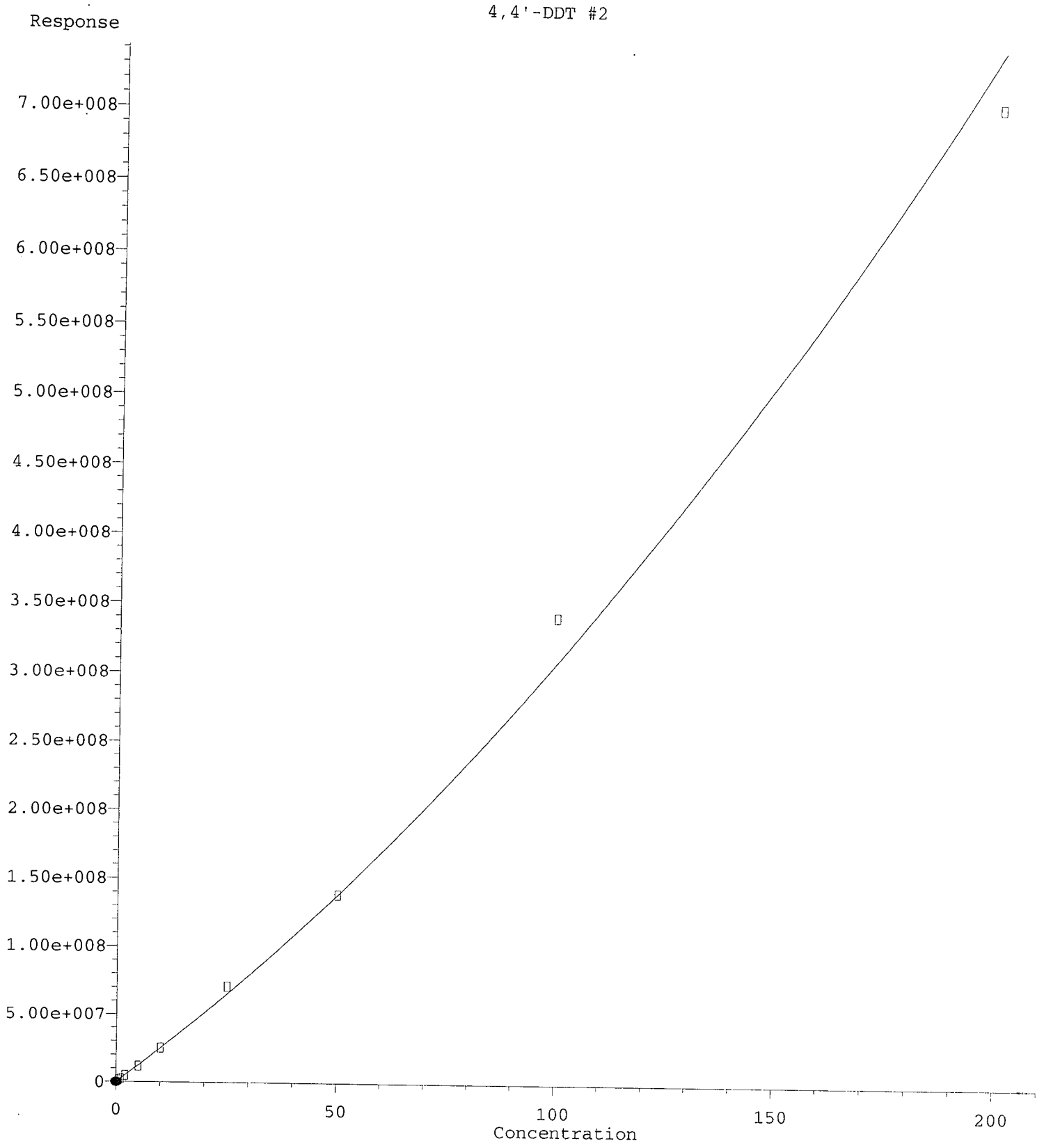
MJ 2/3/20

(16) Endosulfan II #2

8.840min -0.006 ng/mL m

response 64183

(+) = Expected Retention Time

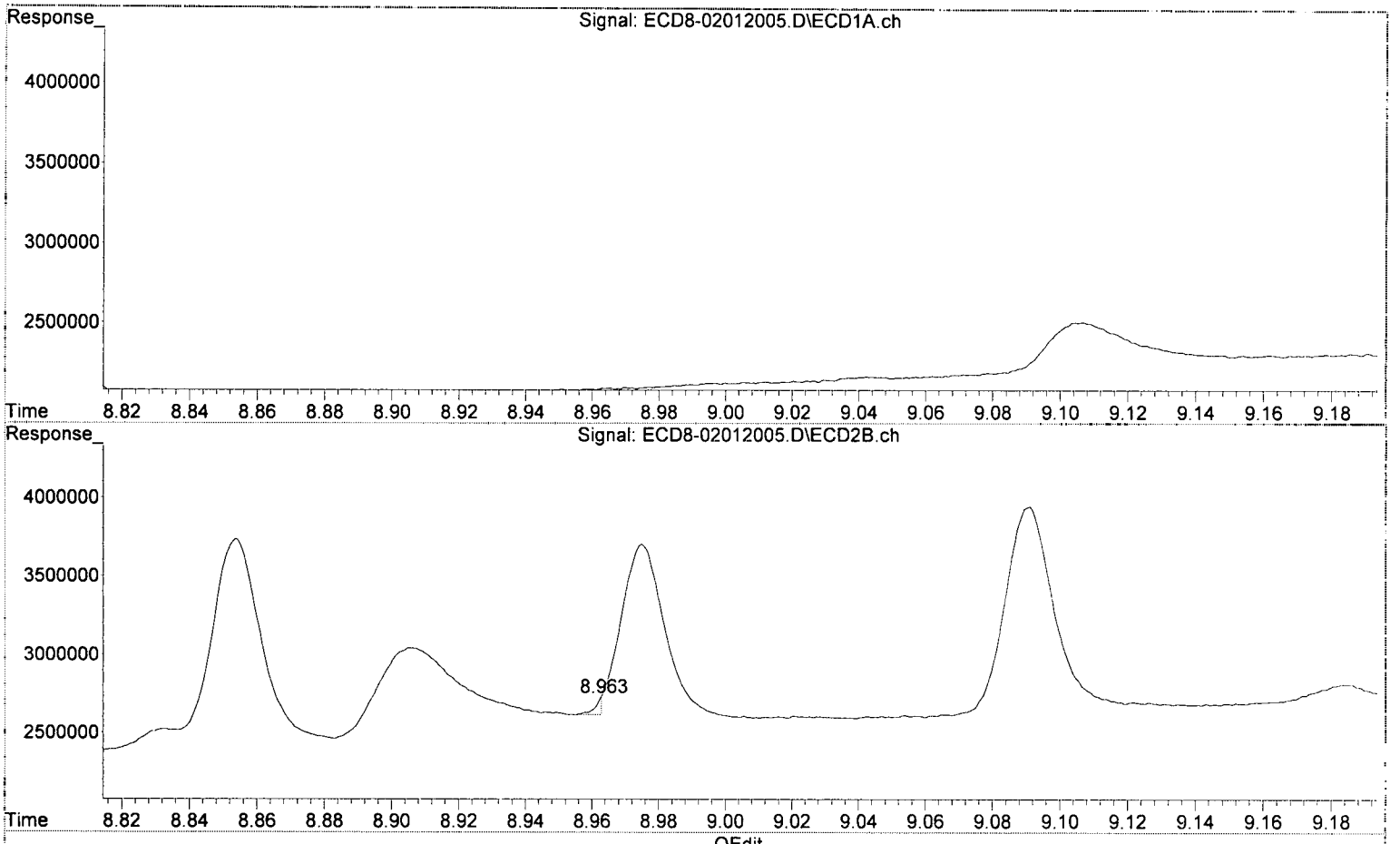


R = 6.32e+003 A*A + 2.45e+006 A + 6.29e+004
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT

8.110min 0.503 ng/mL

response 1351757

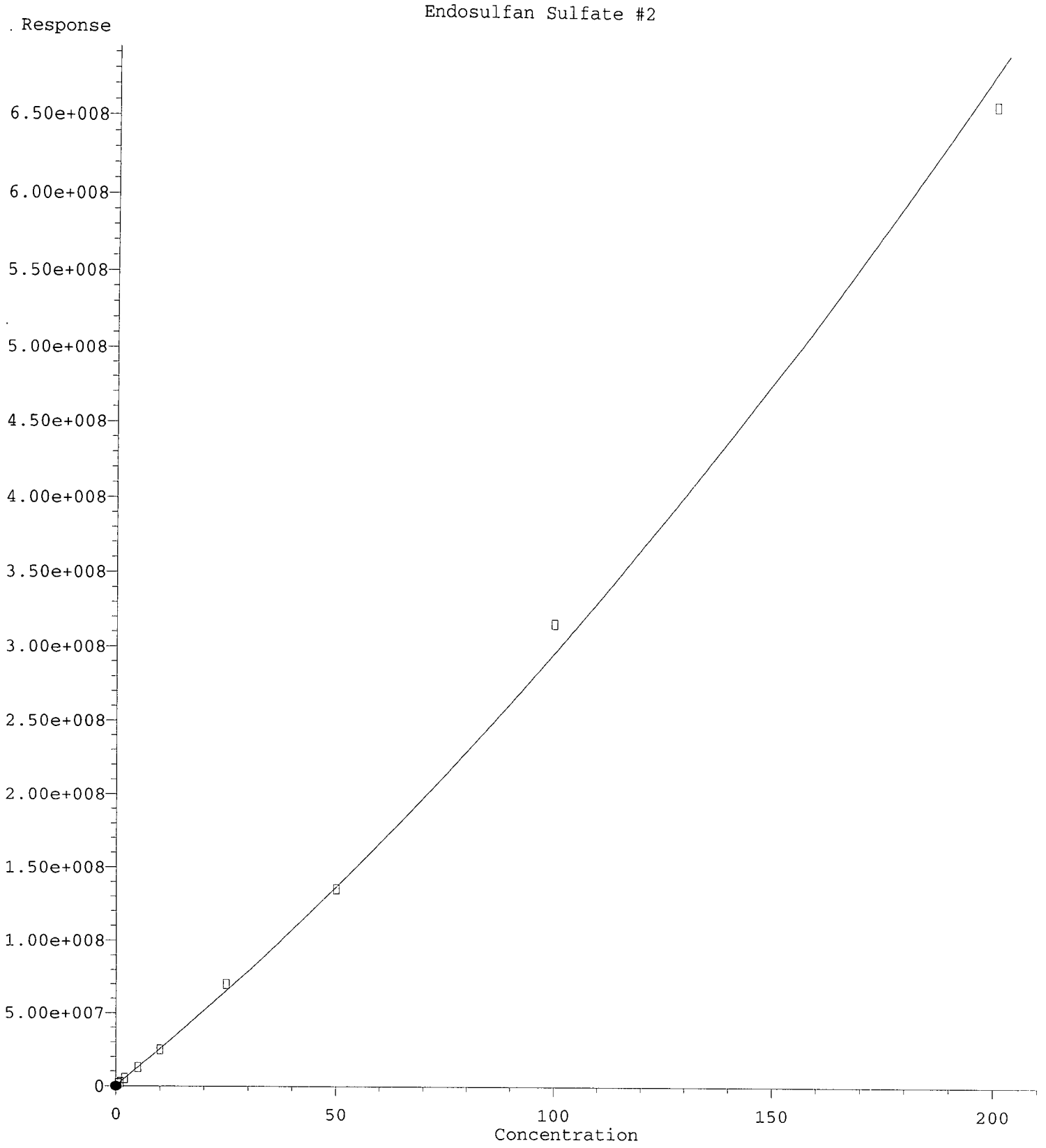
MJB 2/3/20

(17) 4,4'-DDT #2

8.963min 0.021 ng/mL (m)

response 113728

(+) = Expected Retention Time

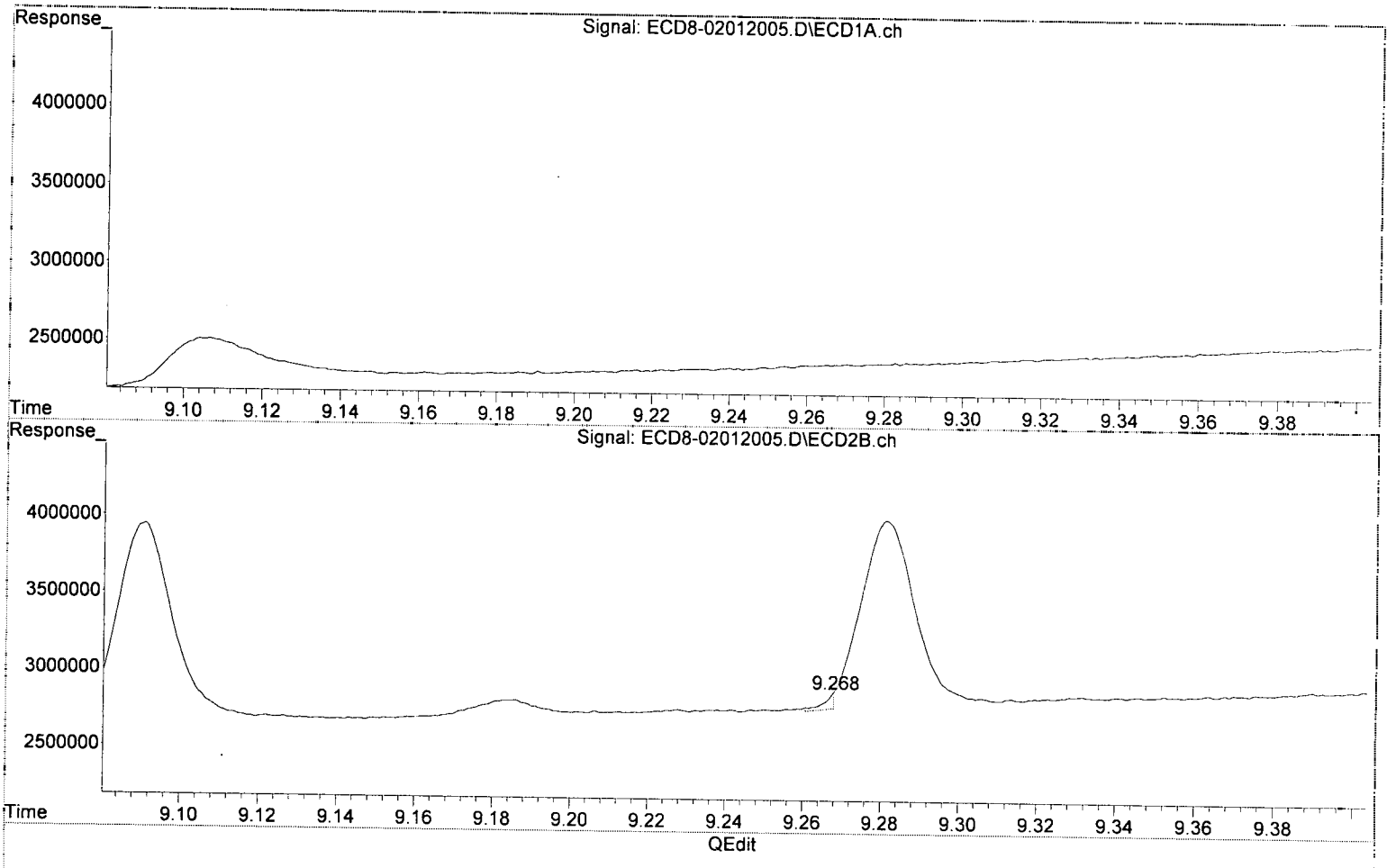


R = 4.57e+003 A*A + 2.50e+006 A + 2.22e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(19) Endosulfan Sulfate

8.604min 0.541 ng/mL

response 1548557

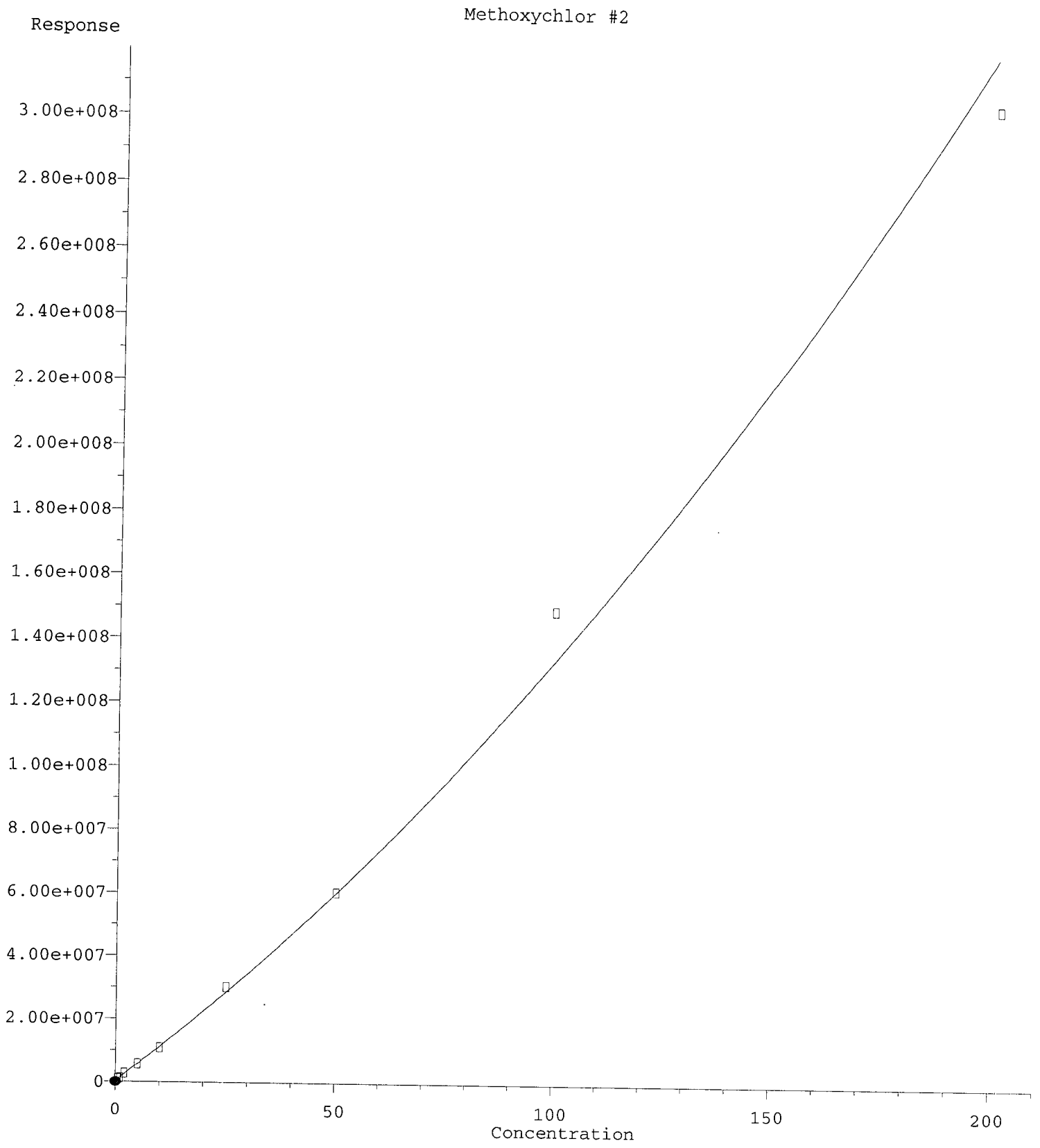
MJB 2/3/20

(19) Endosulfan Sulfate #2

9.268min -0.049 ng/mL (m)

response 99158

(+) = Expected Retention Time

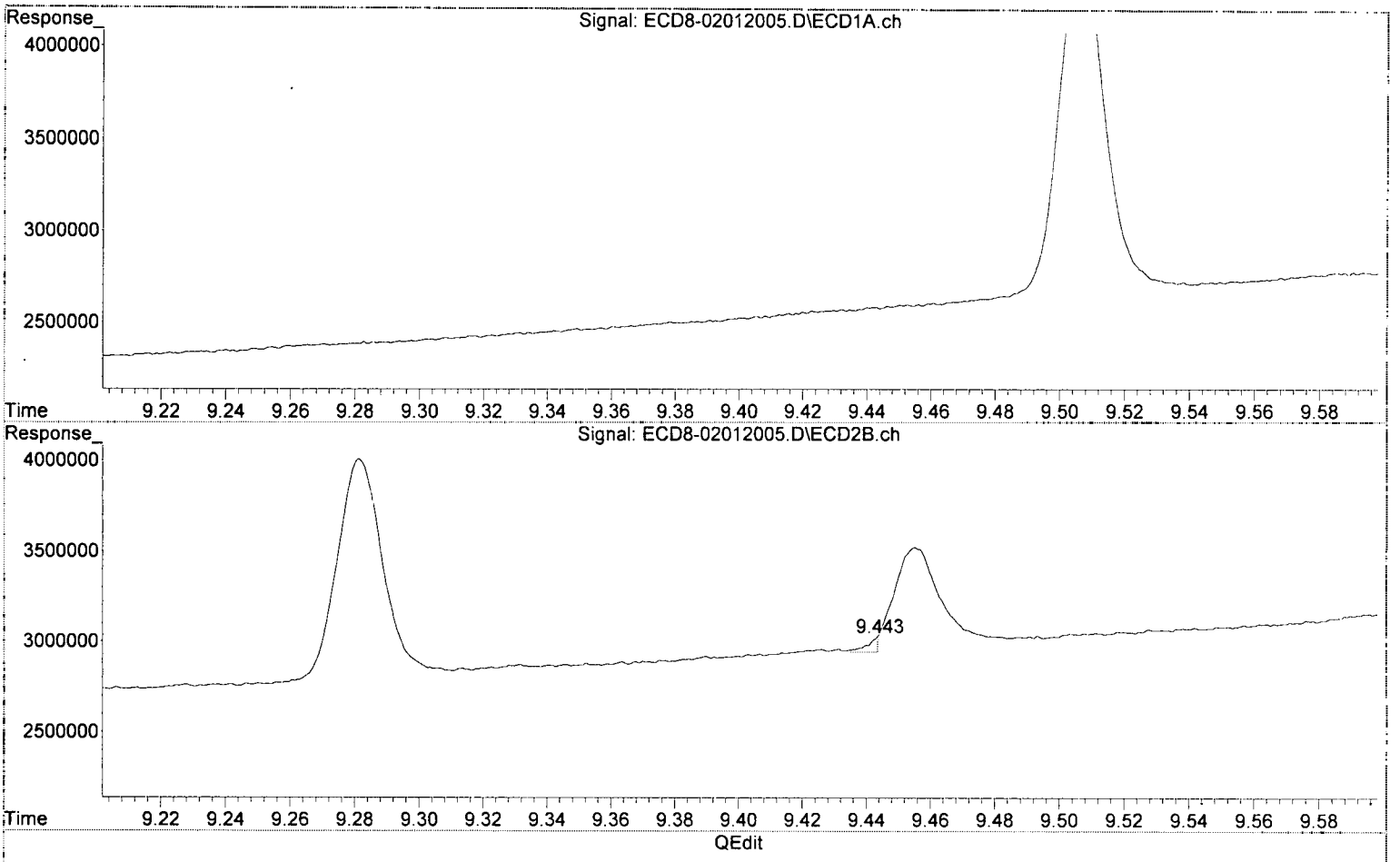


R = 2.73e+003 A*A + 1.06e+006 A + 3.97e+005
Coef of Det (r^2) = 0.988 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(20) Methoxychlor

8.454min 0.539 ng/mL

response 650344

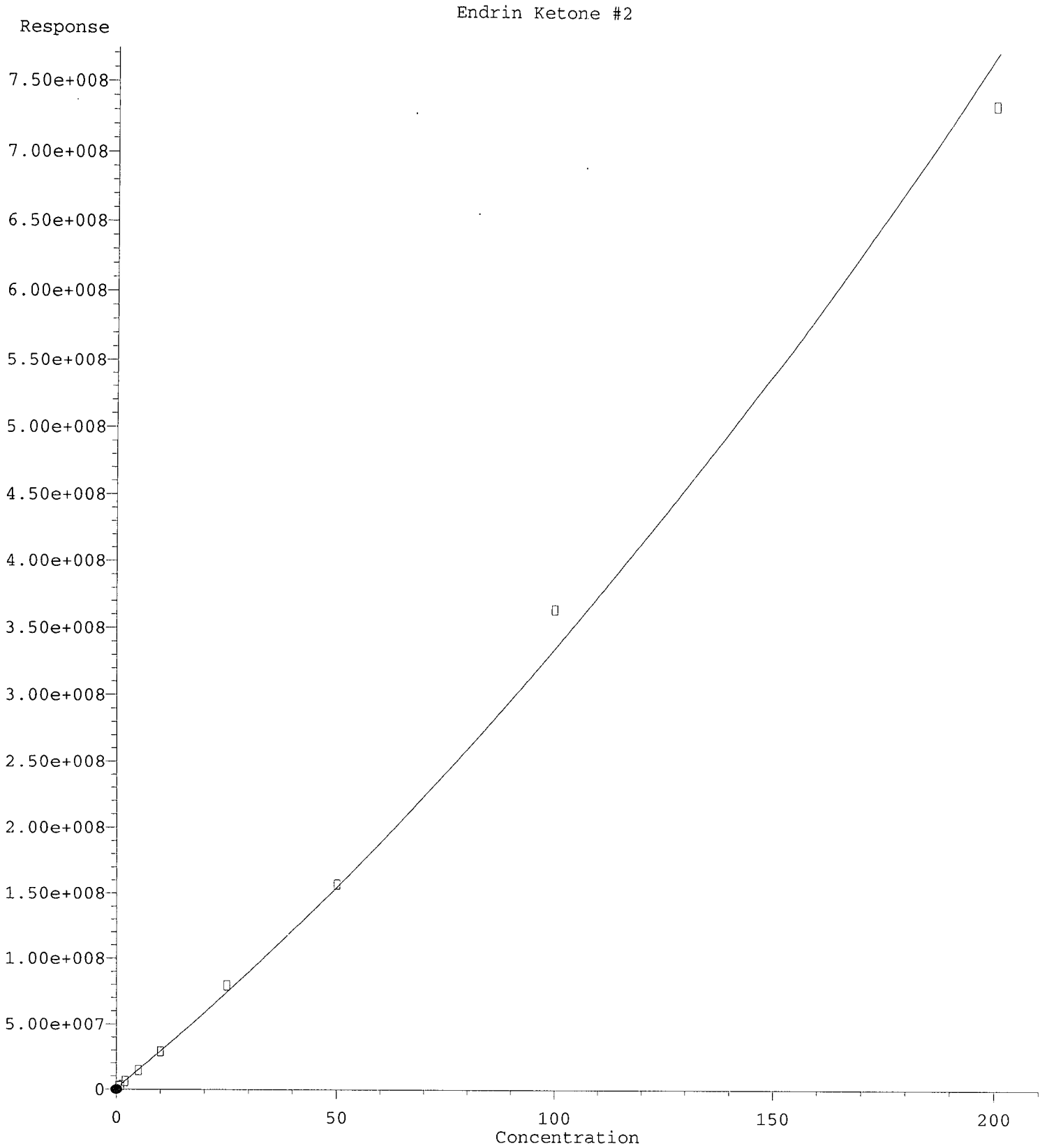
MJB 2/3/20

(20) Methoxychlor #2

9.443min -0.297 ng/mL m

response 82761

(+) = Expected Retention Time

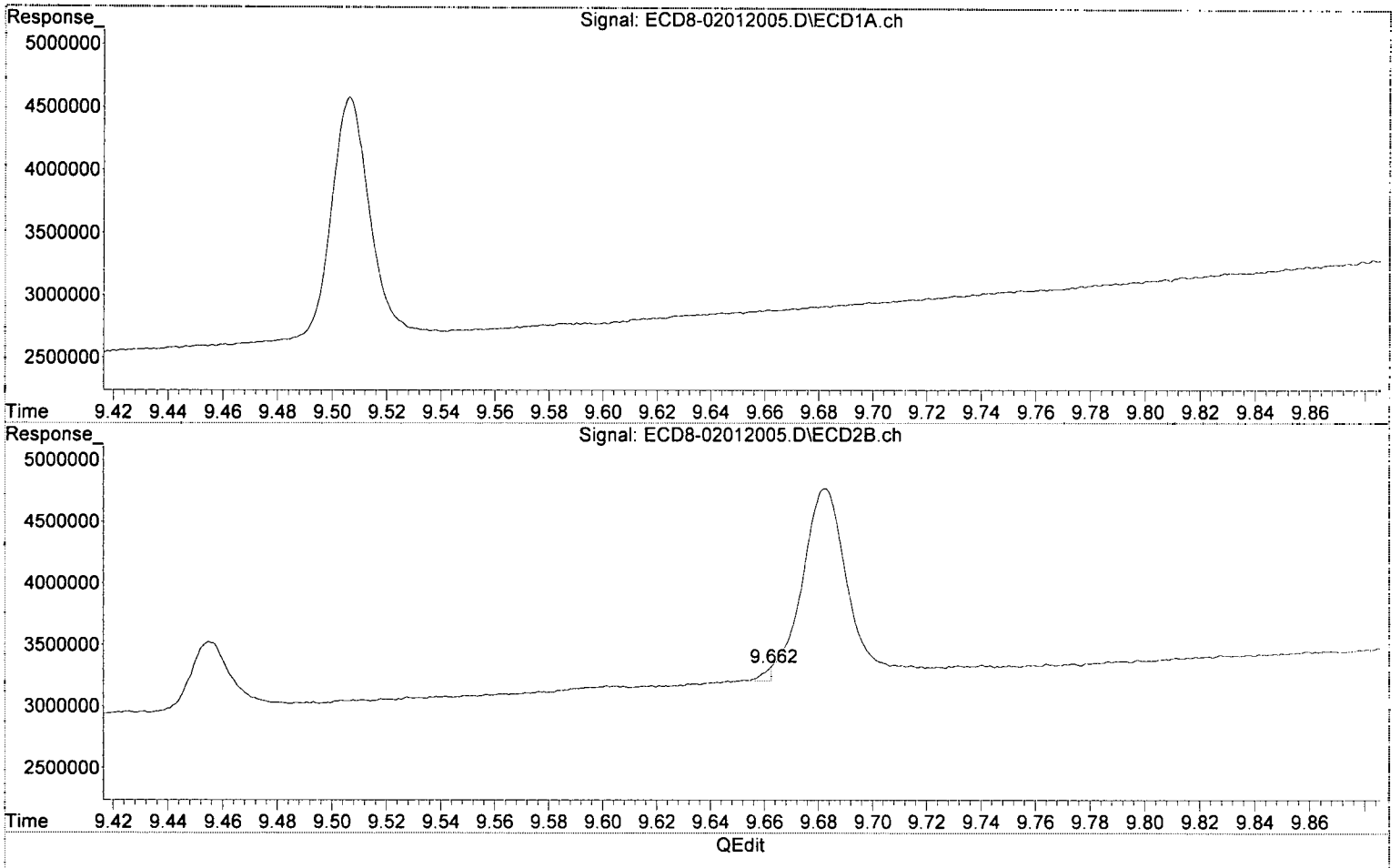


R = 5.21e+003 A*A + 2.82e+006 A + 6.29e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(21) Endrin Ketone

8.797min 0.540 ng/mL

response 1865728

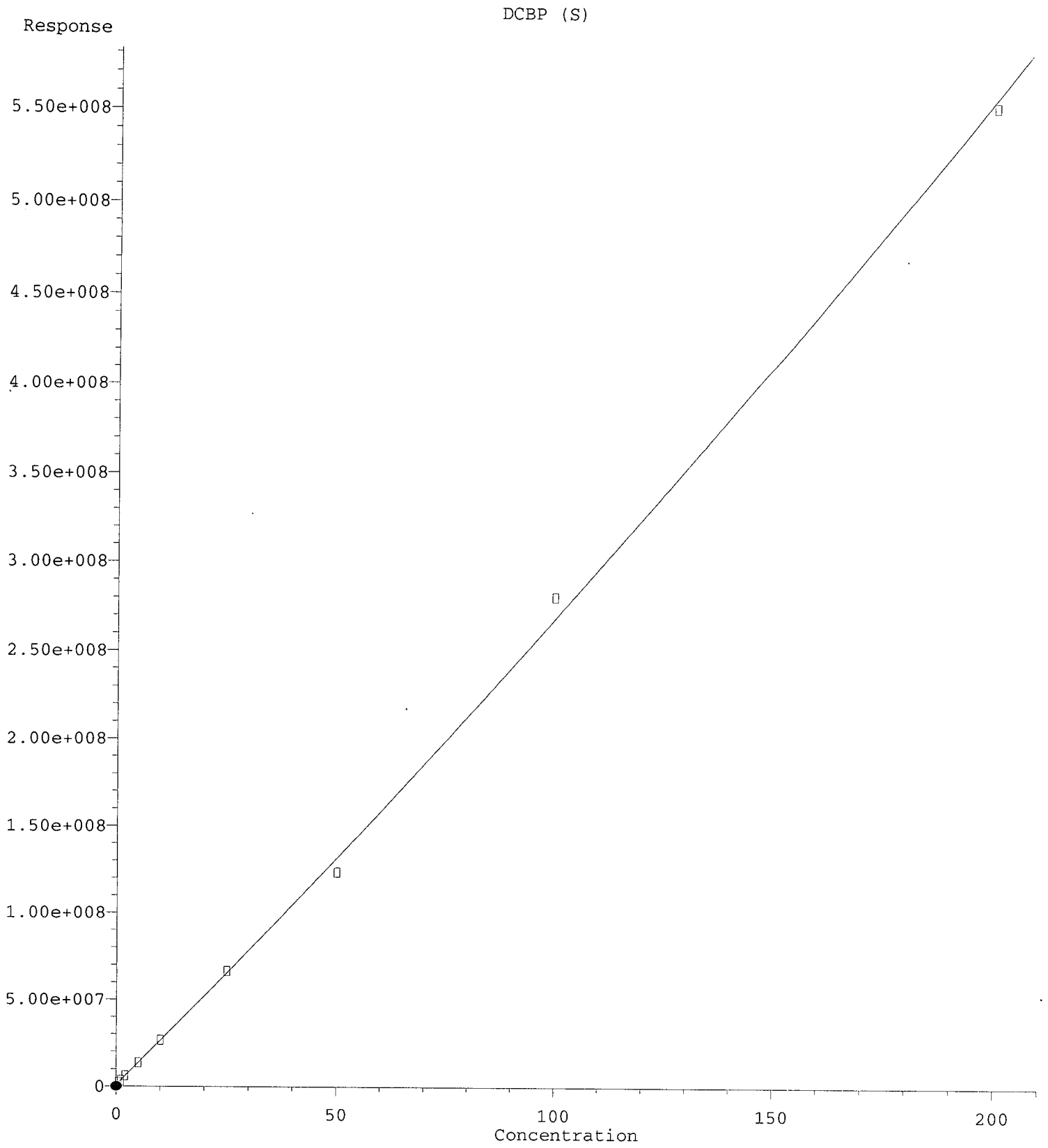
MJB 2/3/20

(21) Endrin Ketone #2

9.662min -0.183 ng/mL (m)

response 113206

(+) = Expected Retention Time

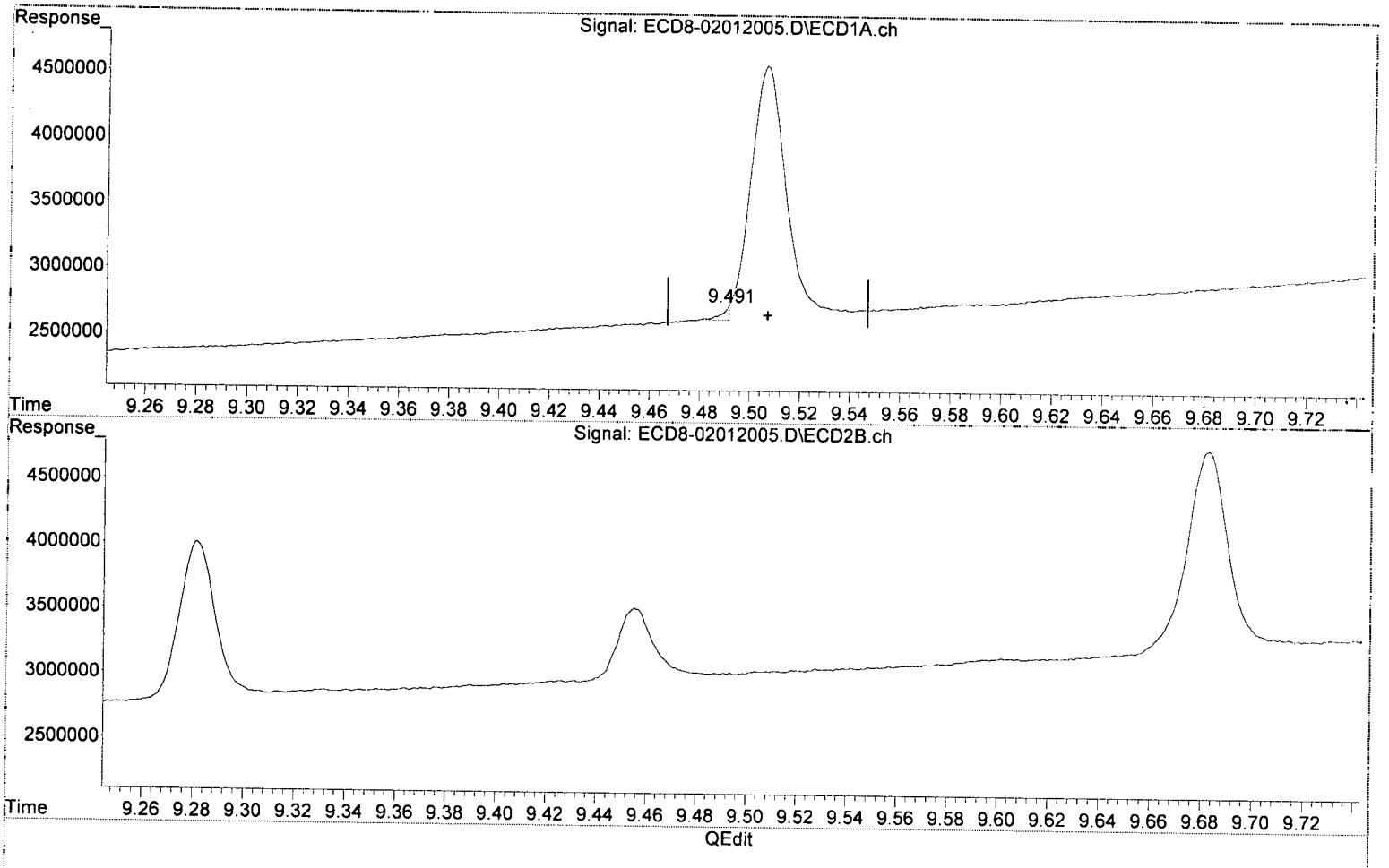


R = 1.20e+003 A*A + 2.55e+006 A + 8.55e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(22) DCBP (S) (S)

9.491min -0.295 ng/mL (m)

response 101899

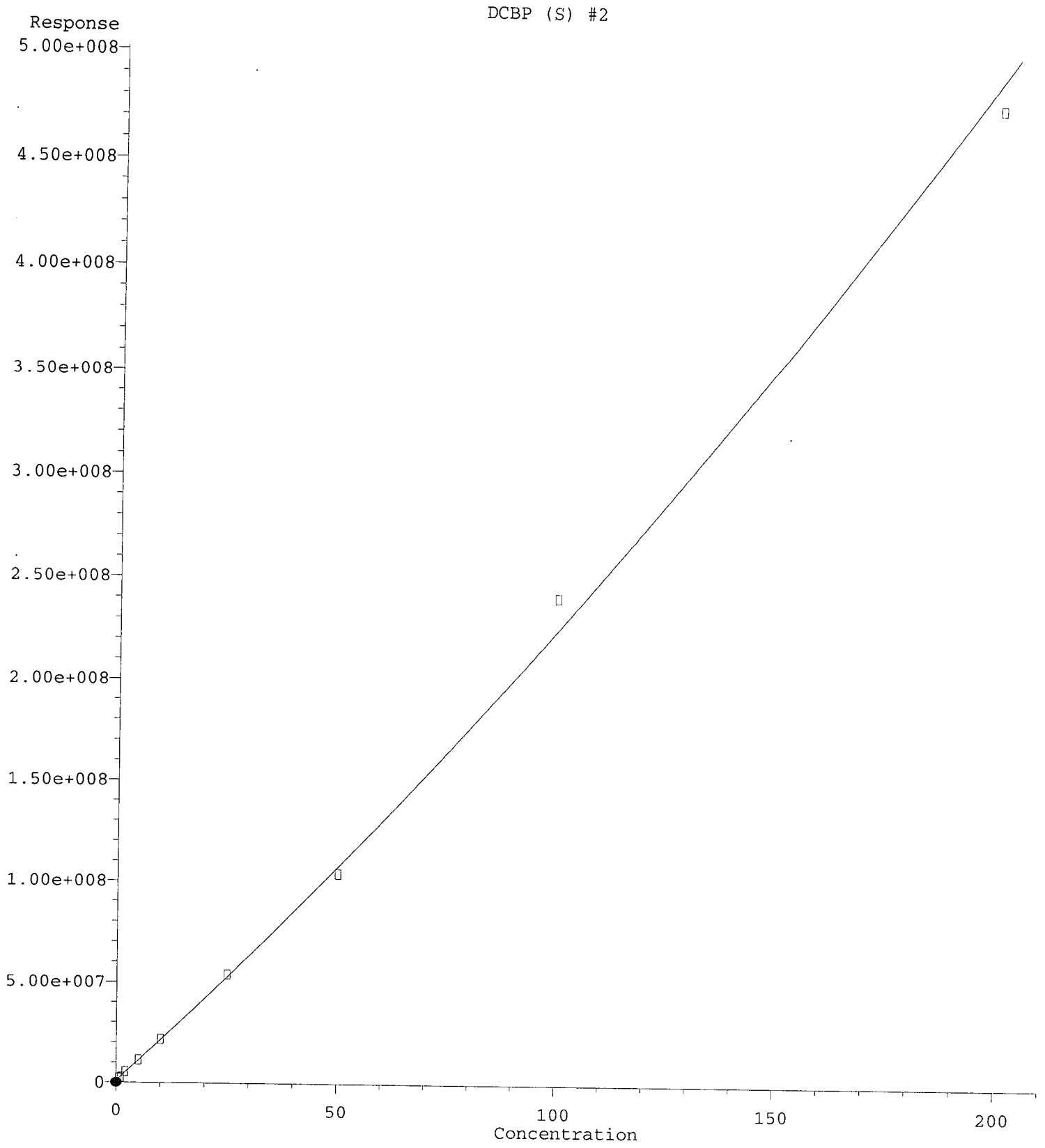
MJB 2/3/20

(22) DCBP (S) #2 (S)

10.537min 0.543 ng/mL

response 2121210

(+) = Expected Retention Time

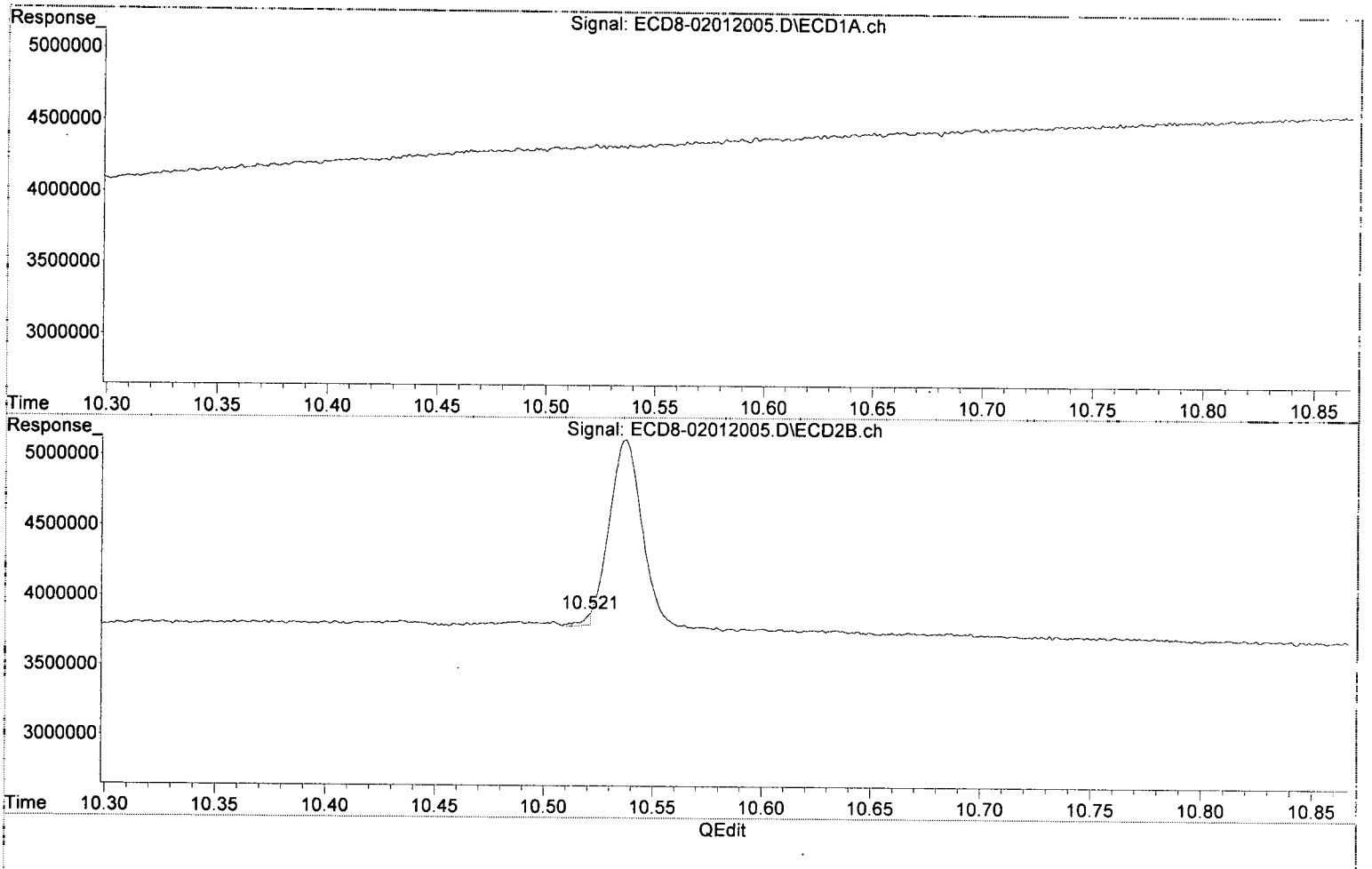


R = 2.17e+003 A*A + 2.02e+006 A + 1.03e+006
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(22) DCBP (S) (S)

9.491min -0.295 ng/mL m

response 101899

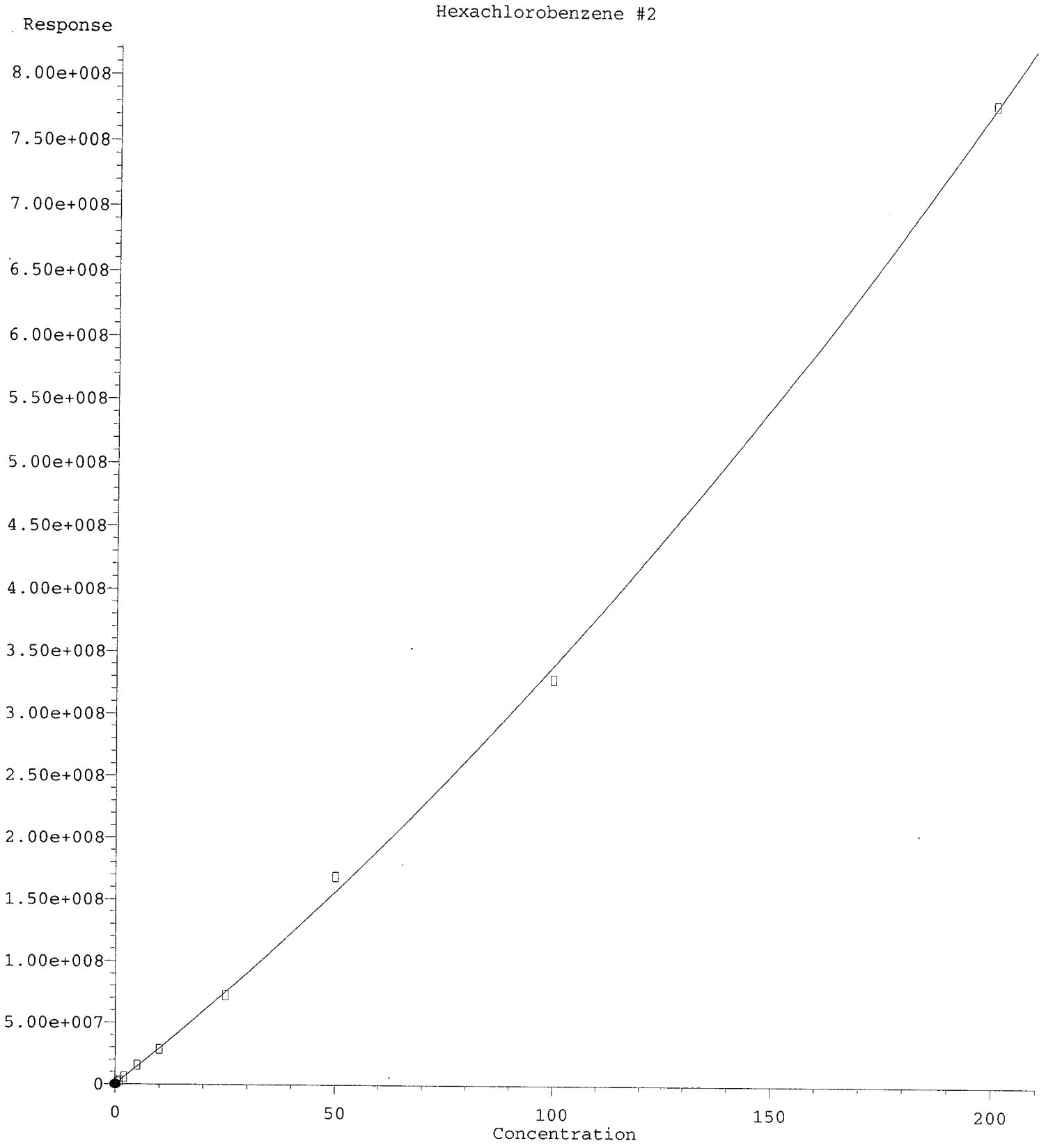
MJB 2/3/20

(22) DCBP (S) #2 (S)

10.521min -0.468 ng/mL (m)

response 82061

(+) = Expected Retention Time

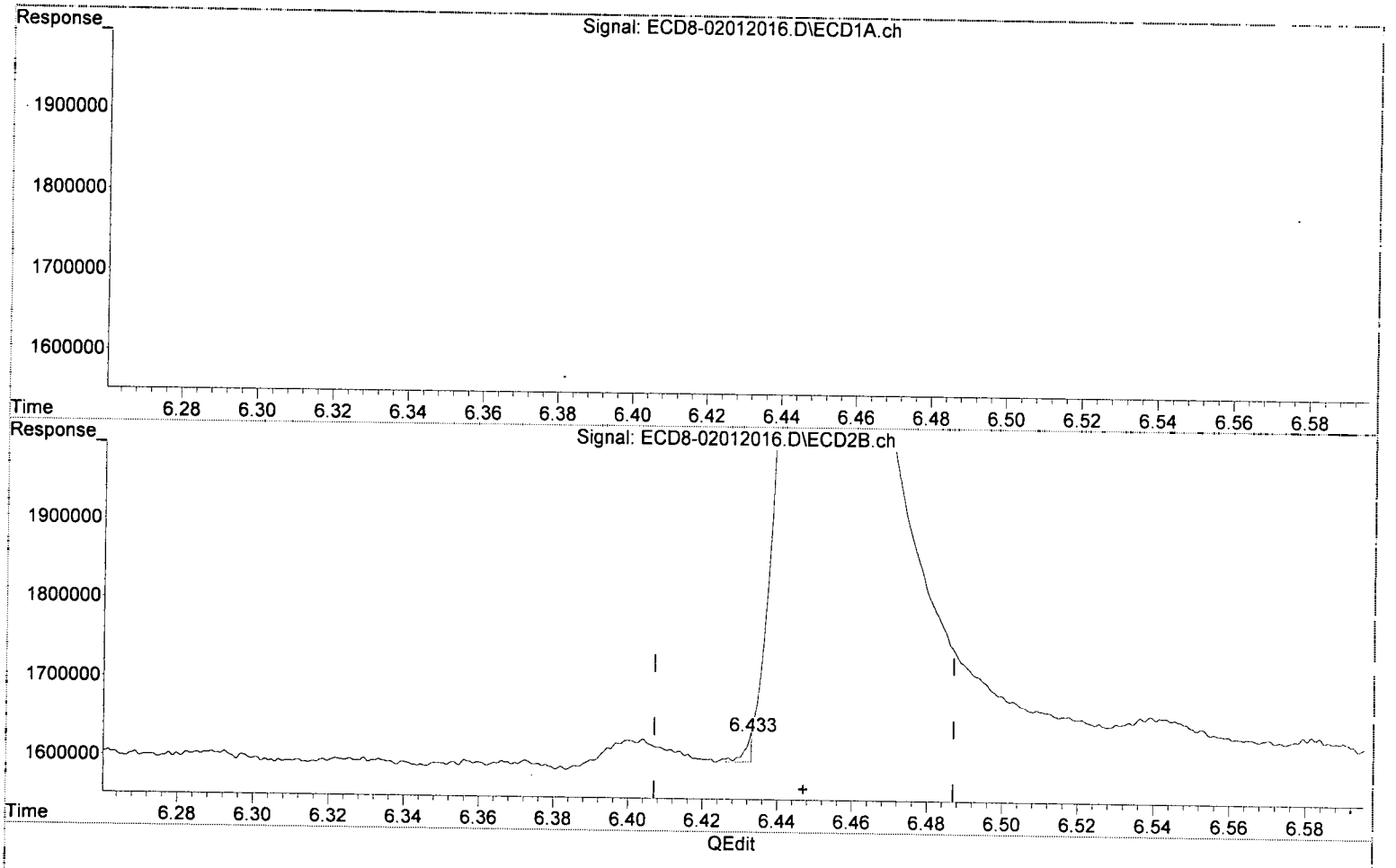


R = 5.17e+003 A*A + 2.87e+006 A + 1.57e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(24) Hexachlorobenzene

5.681min 0.564 ng/mL

response 1894604

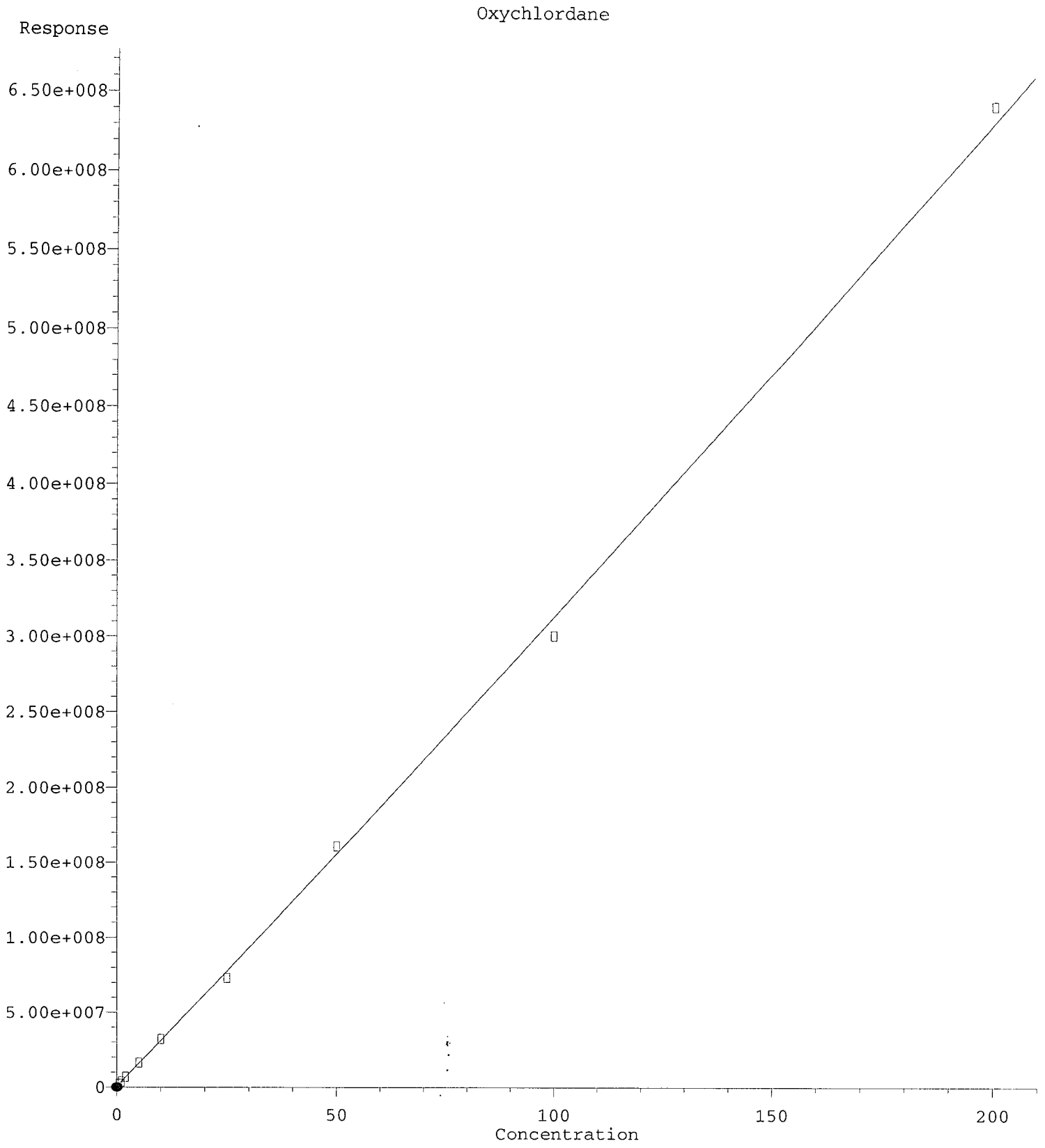
MJB 2/3/20

(24) Hexachlorobenzene #2

6.433min -0.043 ng/mL (m)

response 32864

(+) = Expected Retention Time

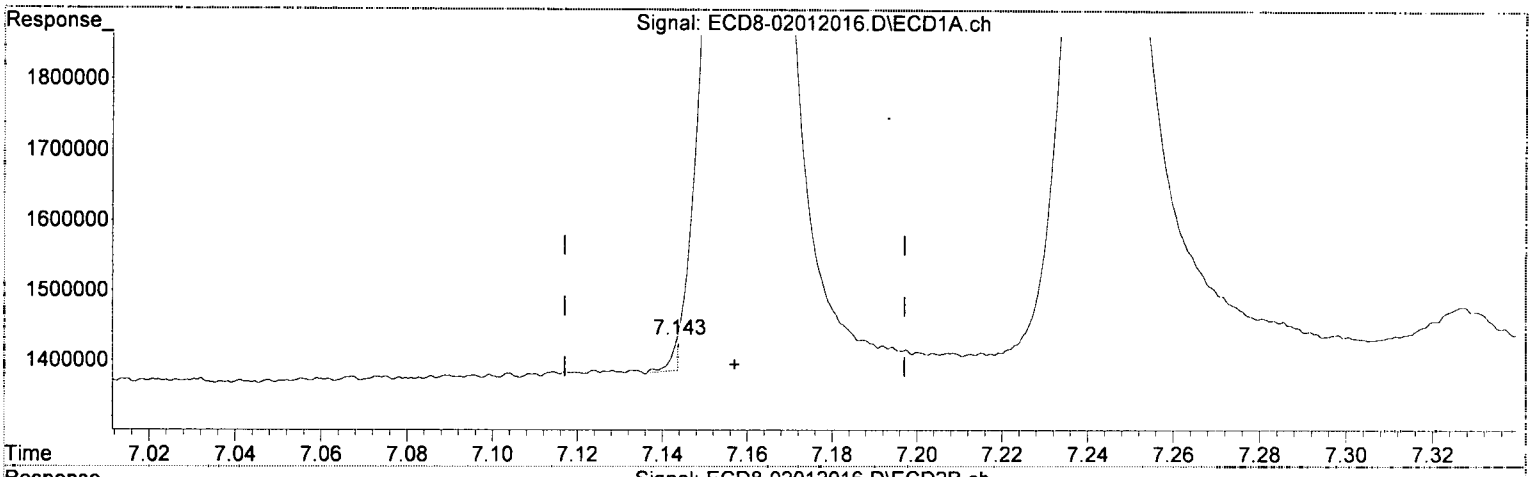


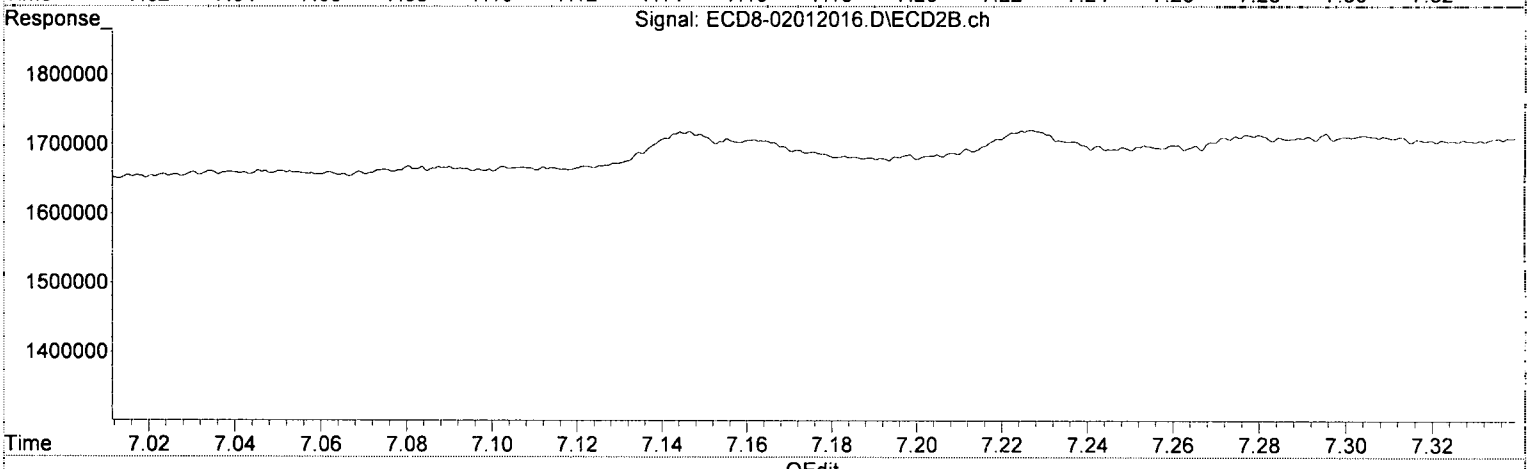
R = 4.64e+002 A*A + 3.07e+006 A + 5.52e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(25) Oxychlordane

7.143min -0.165 ng/mL (m)

response 44172

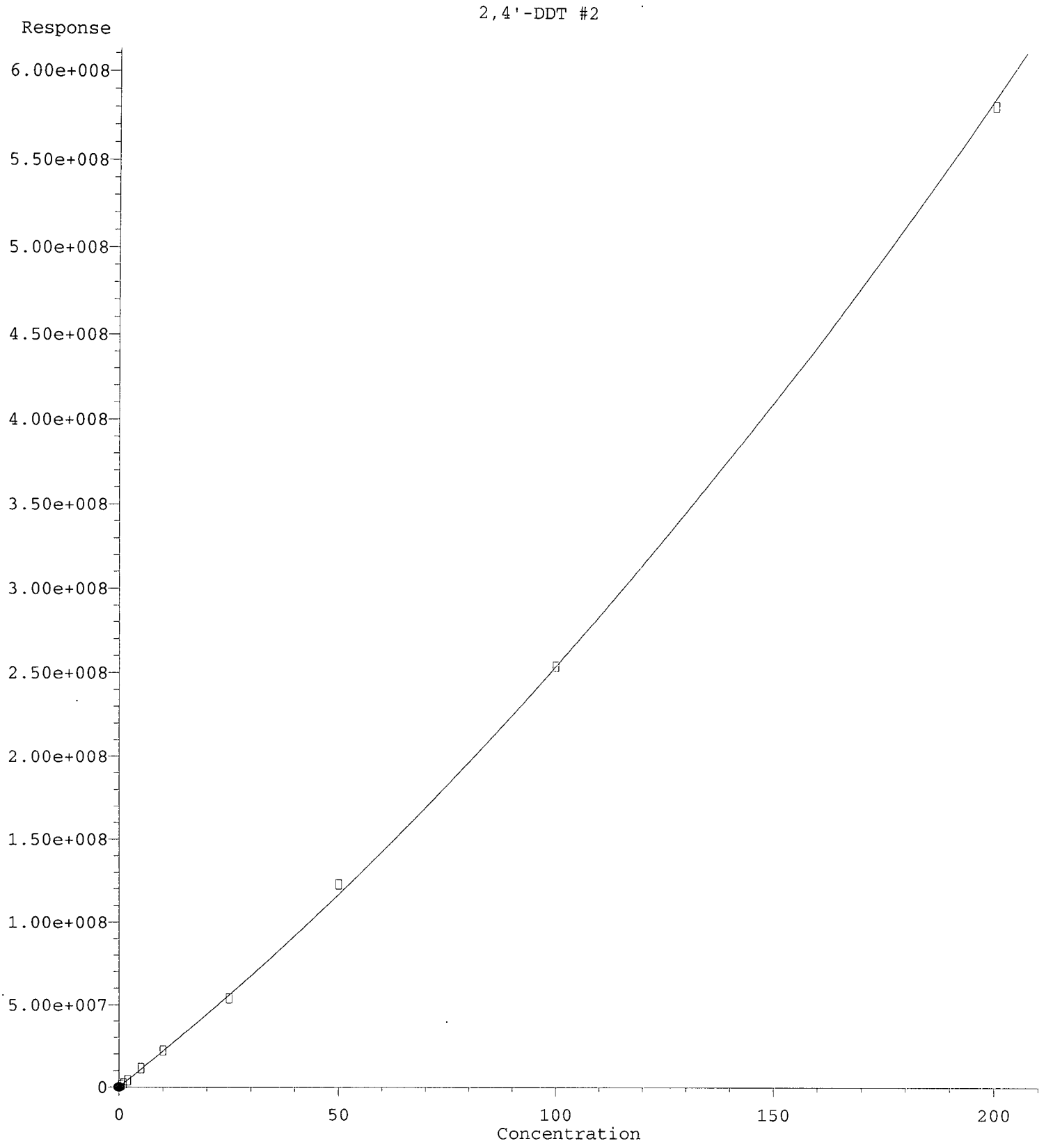
MJB 2/3/20

(25) Oxychlordane #2

7.908min 0.568 ng/mL

response 1817597

(+) = Expected Retention Time

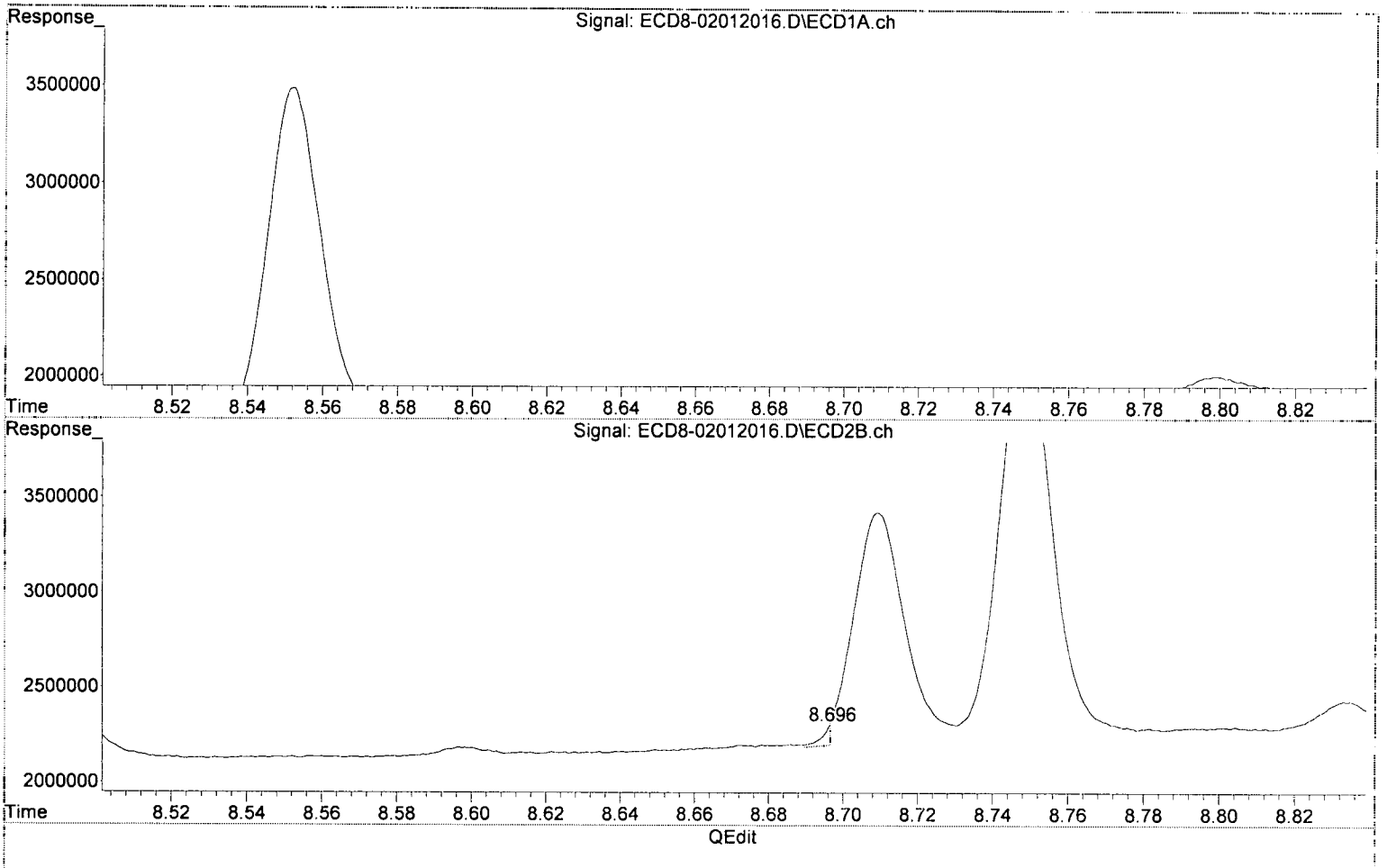


R = 4.06e+003 A*A + 2.13e+006 A + 1.05e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT

7.797min 0.593 ng/mL

response 1418724

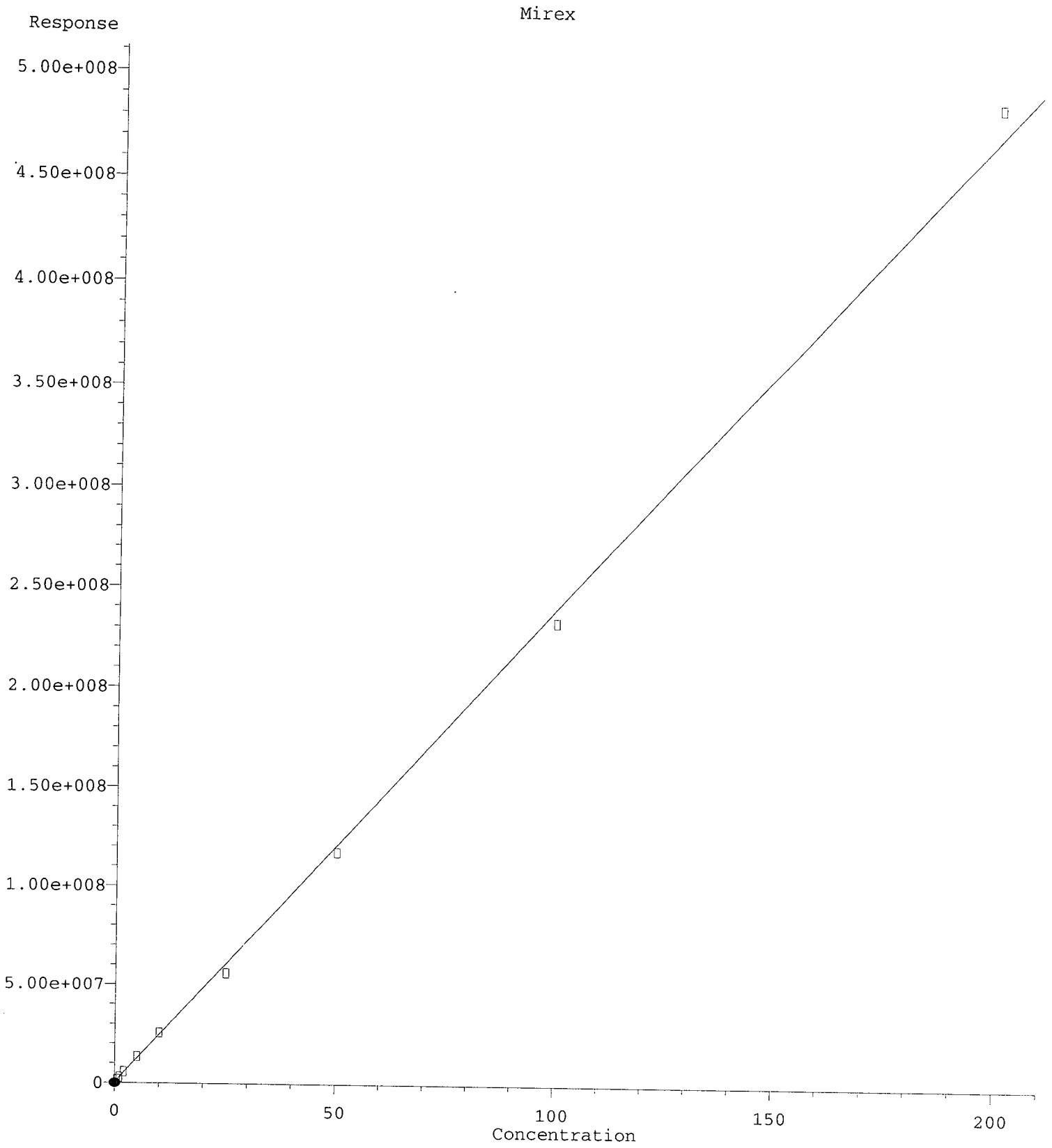
MJB 2/3/20

(29) 2,4'-DDT #2

8.696min -0.000 ng/mL (m)

response 104421

(+) = Expected Retention Time

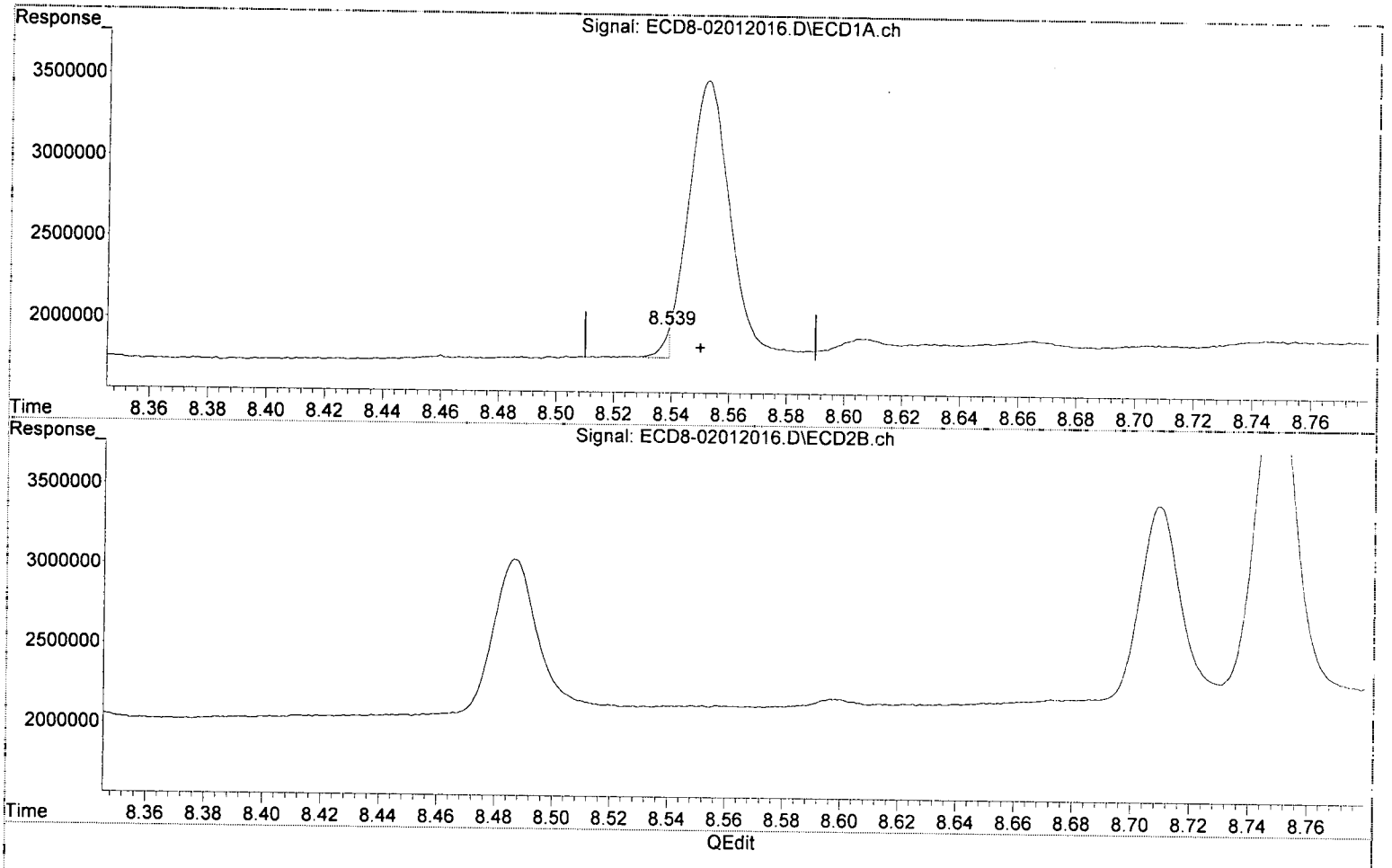


R = -2.95e+002 A*A + 2.42e+006 A + 5.00e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.539min 8199.054 ng/mL (m)

response 181602

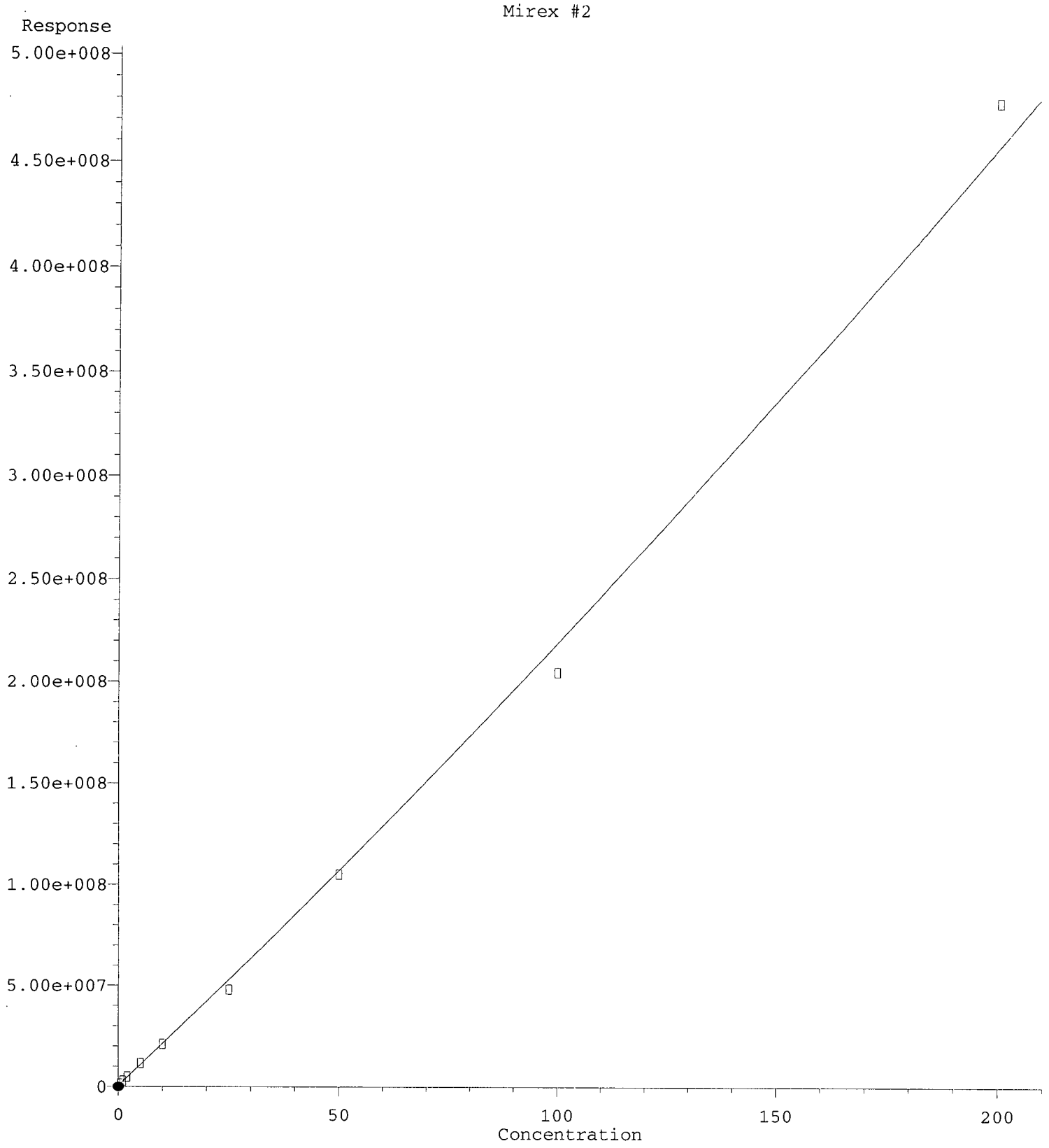
MJB 2/3/20

(31) Mirex #2

9.675min 0.461 ng/mL

response 1475836

(+) = Expected Retention Time

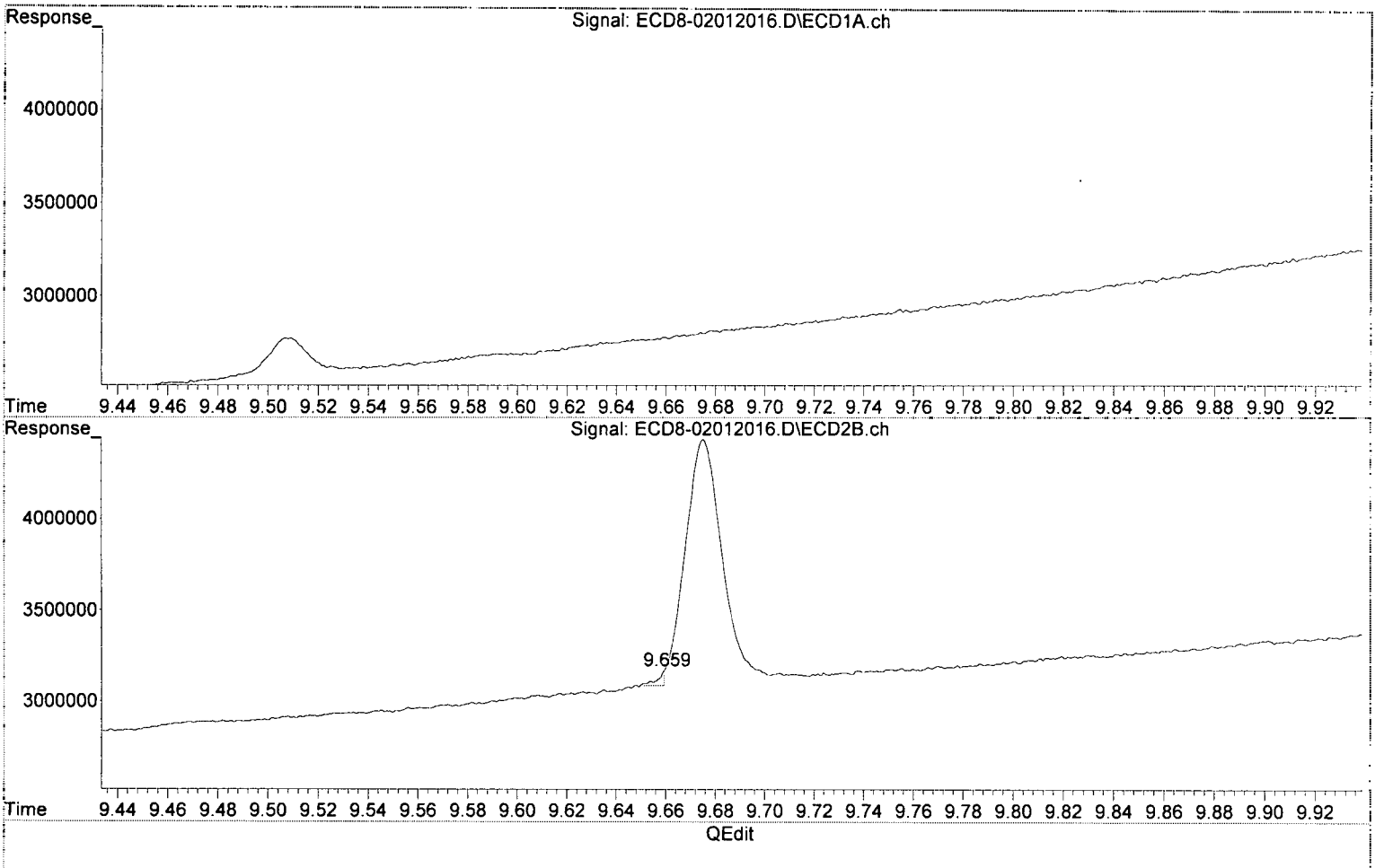


R = 1.11e+003 A*A + 2.07e+006 A + 5.22e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\EC08_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.539min 8199.054 ng/mL m

response 181602

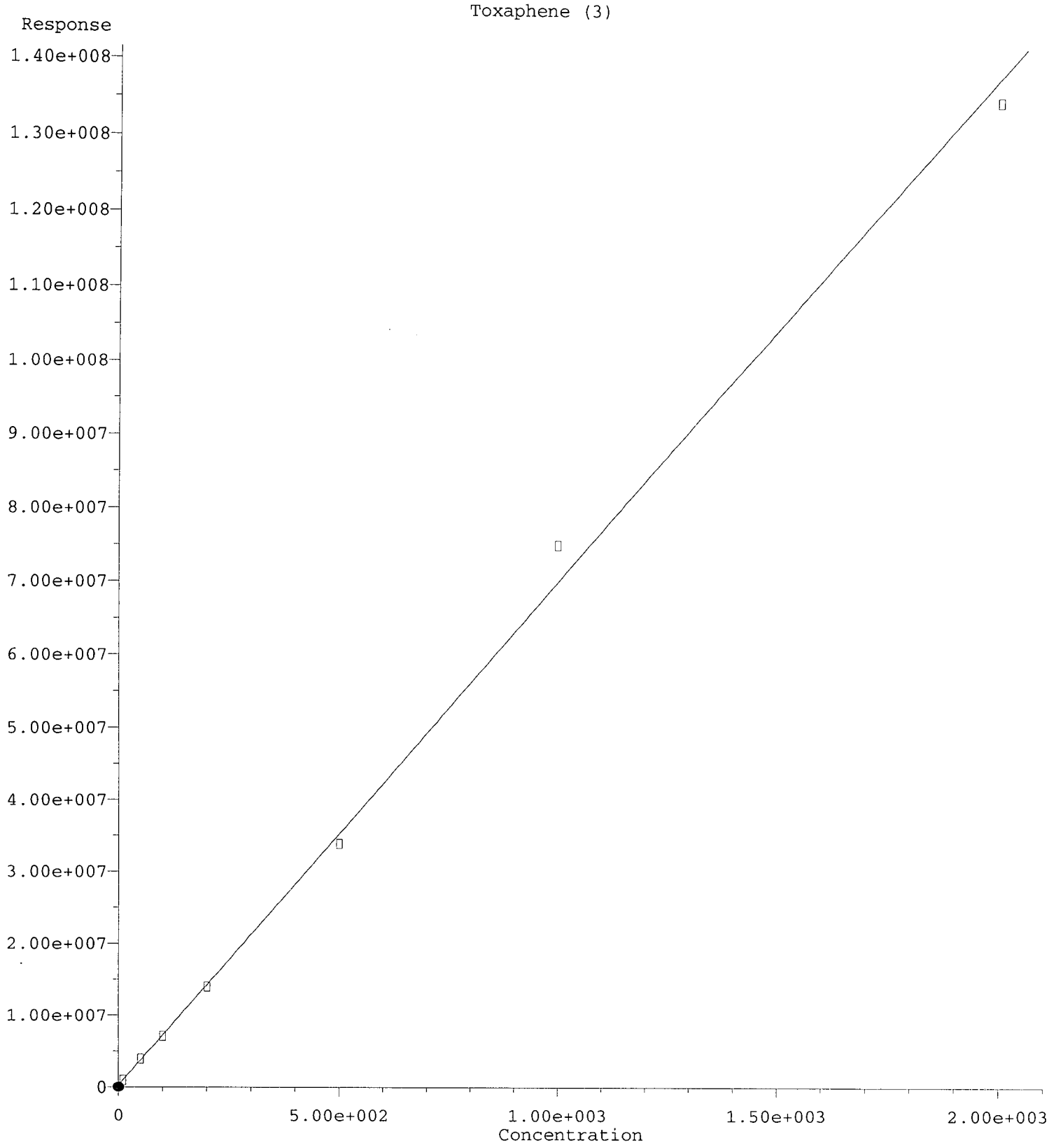
MJB 2/3/20

(31) Mirex #2

9.659min -0.212 ng/mL (m)

response 83389

(+) = Expected Retention Time

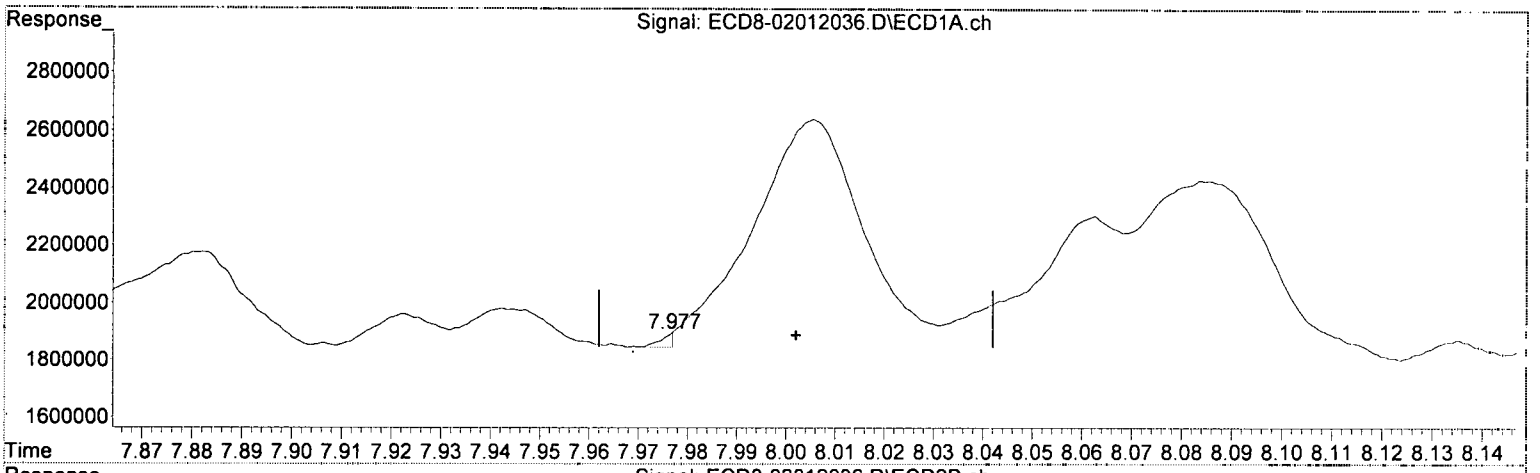


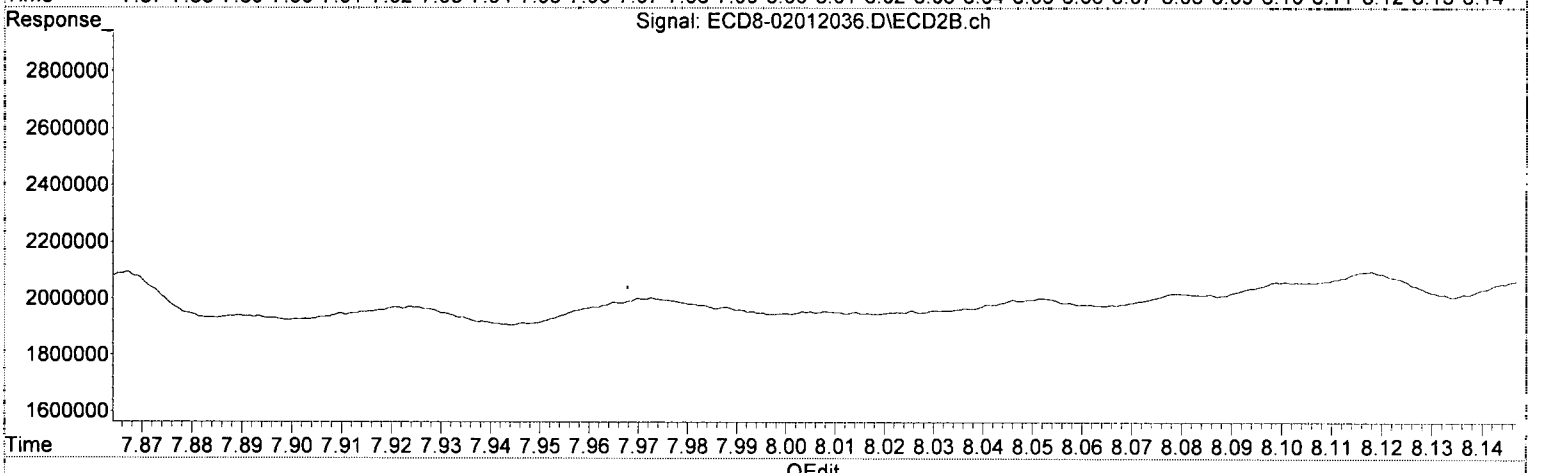
R = -7.28e-001 A*A + 7.04e+004 A + 2.22e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(38) Toxaphene (3)

7.977min 96753.255 ng/mL (m)

response 47861

QA01

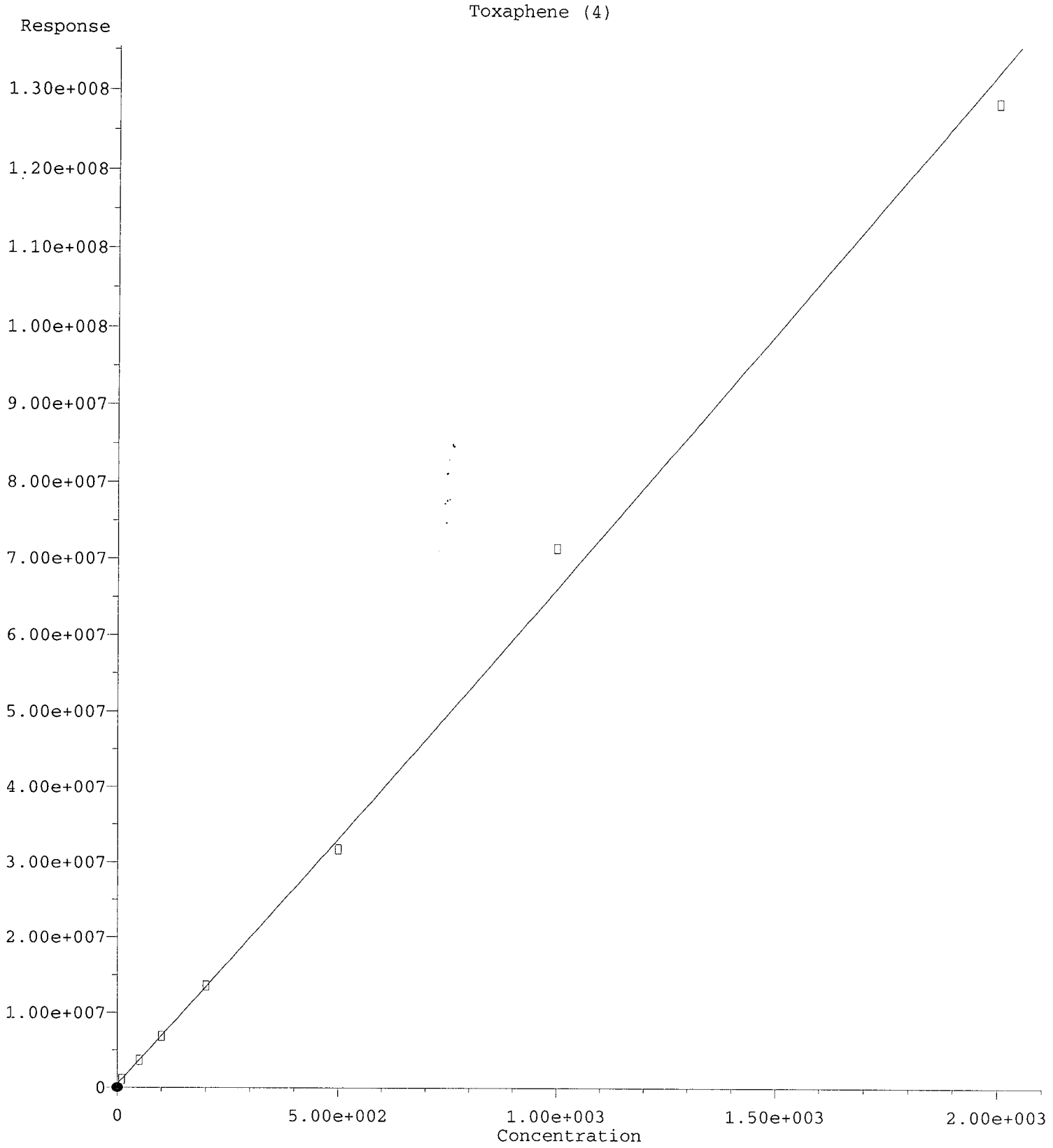
MJB 2/4/20

(38) Toxaphene (3) #2

8.838min 10.732 ng/mL

response 694351

(+) = Expected Retention Time

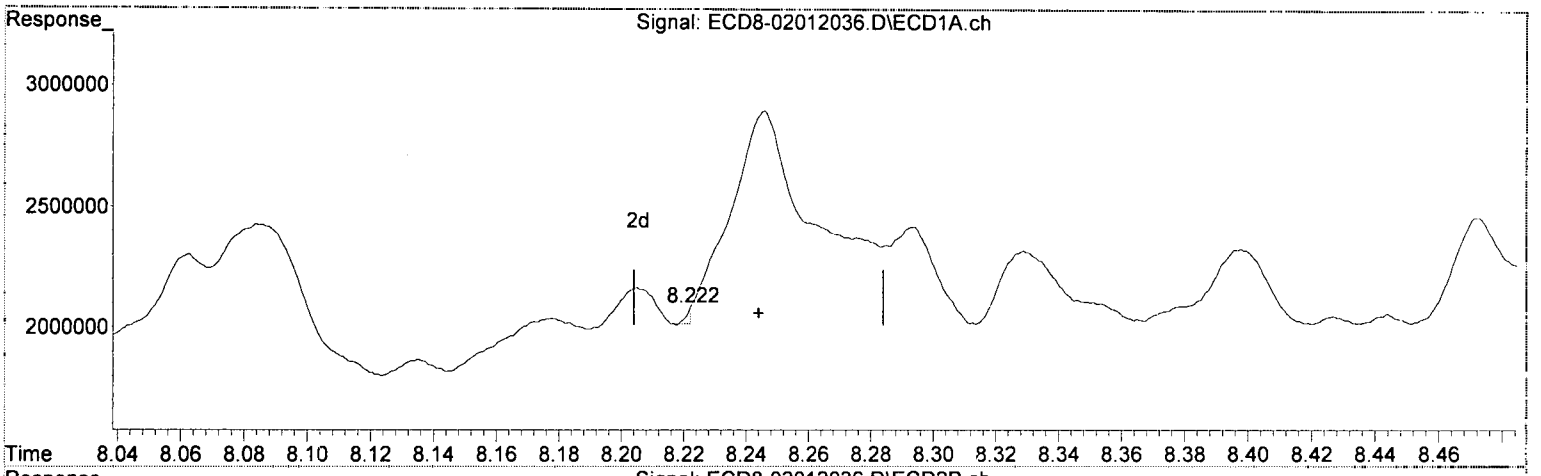


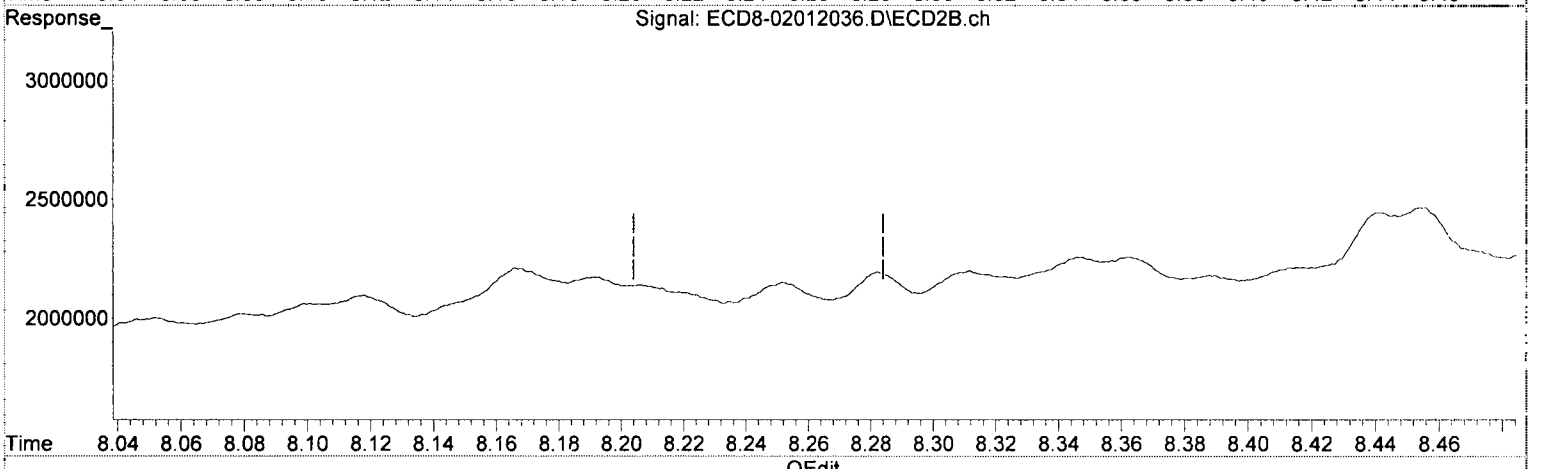
R = 6.76e-001 A*A + 6.49e+004 A + 4.50e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





(39) Toxaphene (4)

8.222min -5.887 ng/mL (m)

response 68489

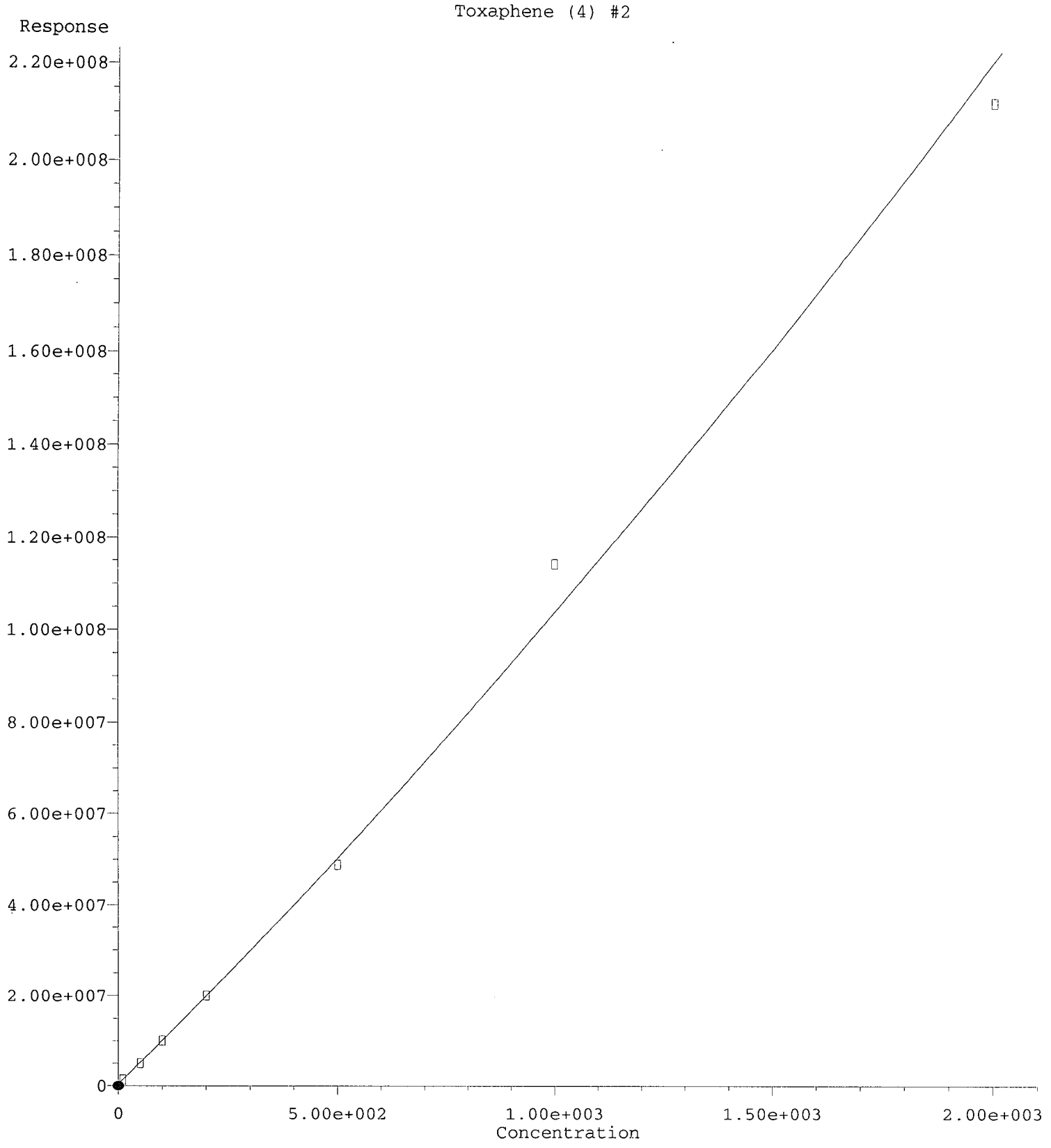
MJB 2/3/20

(39) Toxaphene (4) #2

8.907min 10.079 ng/mL

response 1372328

(+) = Expected Retention Time

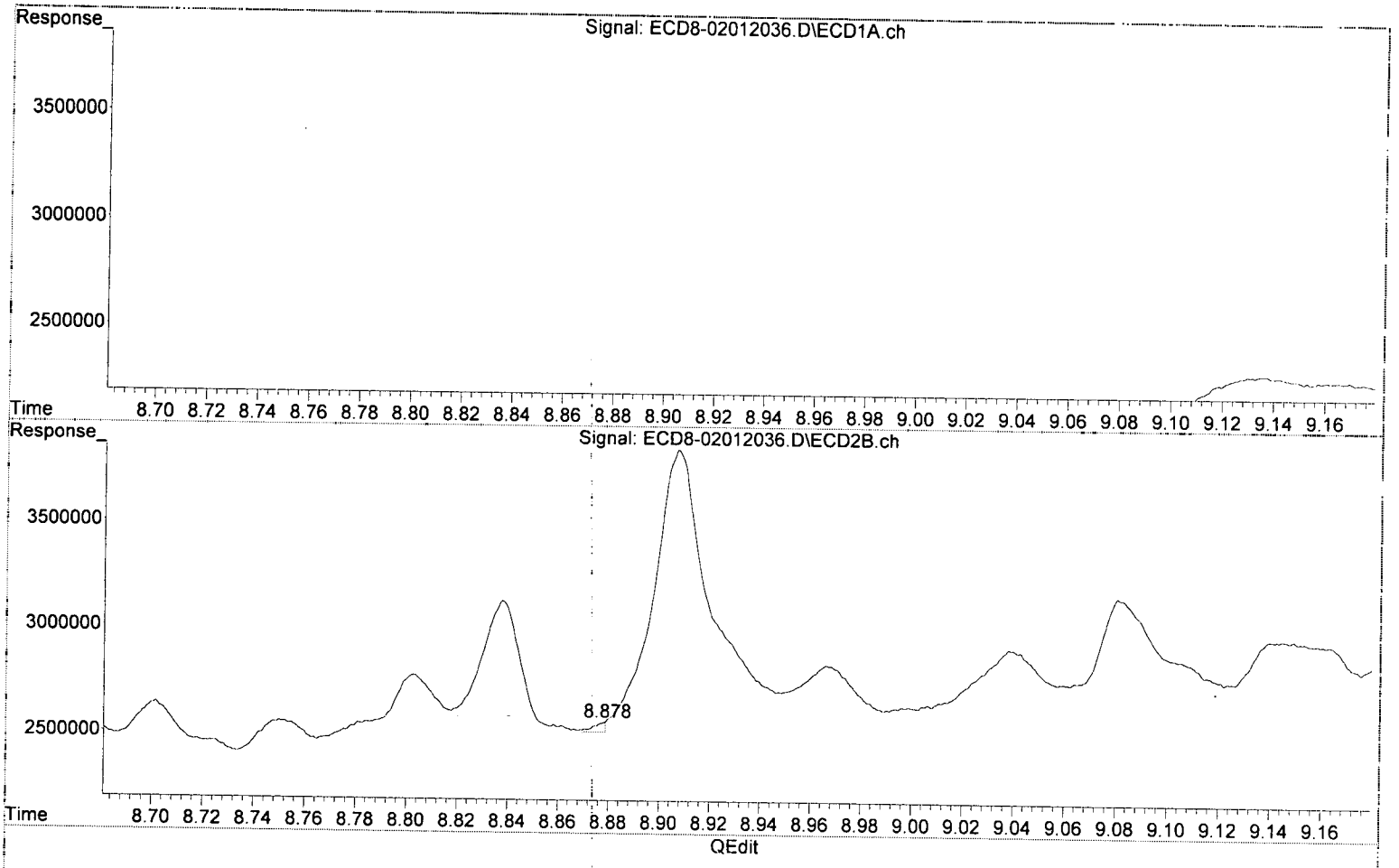


R = 7.17e+000 A*A + 9.62e+004 A + 4.02e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(39) Toxaphene (4)

8.222min -5.887 ng/mL m

response 68489

MJB 2/3/20

(39) Toxaphene (4) #2

8.878min -3.705 ng/mL m

response 46228

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

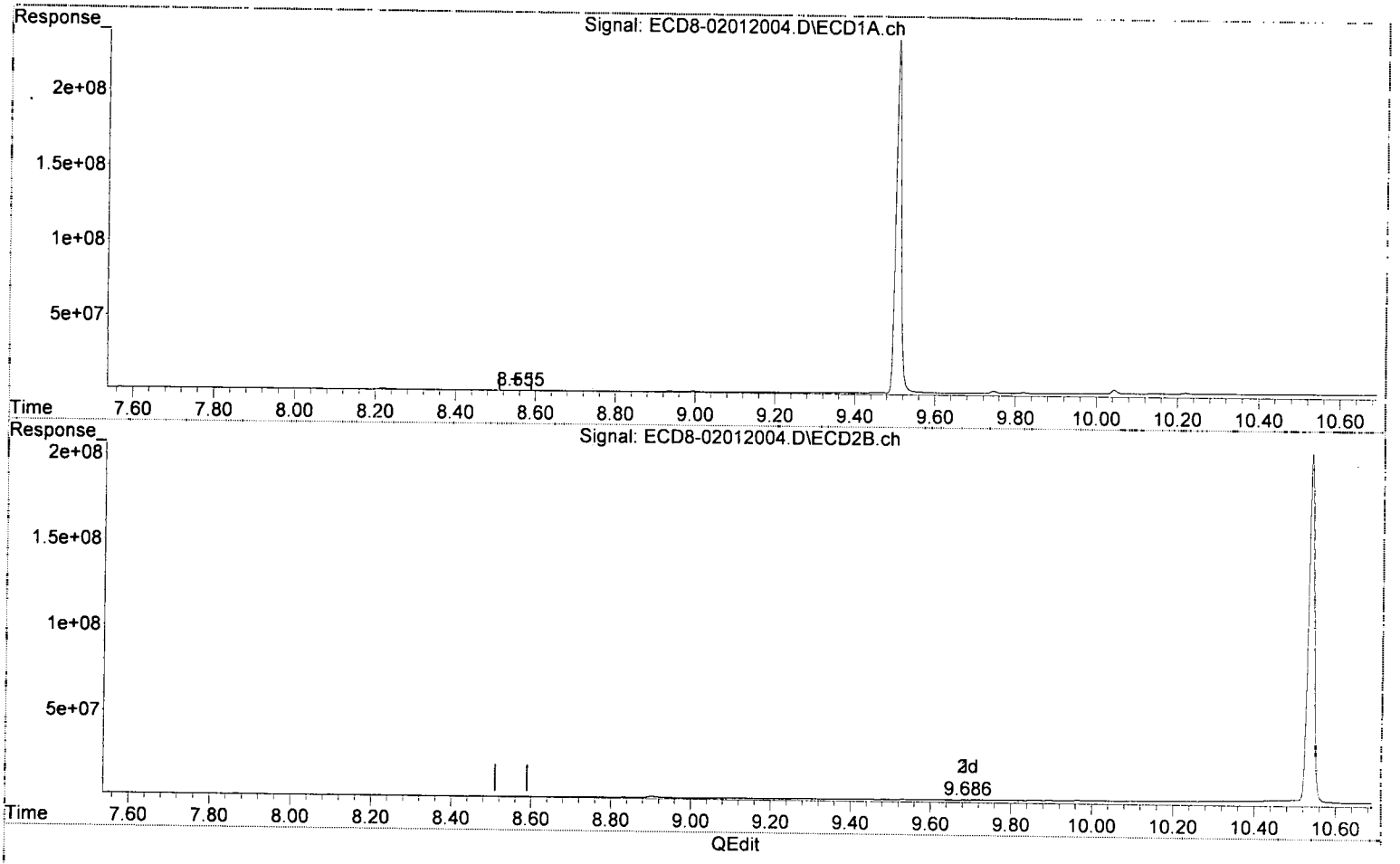
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.297	5.981	318.0E6	341.4E6	90.964	98.960	
22)	S	DCBP (S)	9.506	10.536	236.5E6	202.4E6	88.597	90.949	
		Target Compounds							
2)		a-BHC	5.840	0.000	33920	0	0.007	N.D.	#
3)		g-BHC	6.132	6.911	55024	6227	0.013	0.044	#
4)		b-BHC	6.189	6.951	134250	10158	0.077	0.006	#
5)		Heptachlor	0.000	7.277	0	8767	N.D.	0.002	#
6)		d-BHC	0.000	7.220	0	43476	N.D.	0.110	#
7)		Aldrin	0.000	7.552	0	217045	N.D.	0.070	#
8)		Heptachlo...	7.262f	7.976	39204	10712	0.011	0.003	#
9)		trans-Chl...	7.312	8.118	154215	50544	0.041	0.014	#
10)		cis-Chlor...	7.413	8.216	92336	29538	0.025	0.008	#
11)		Endosulfa...	0.000	8.282	0	22810	N.D.	0.007	#
12)		4,4'-DDE	7.470	8.333	62475	34538	0.019	0.099	#
13)		Dieldrin	7.668f	8.482	15162	19454	0.004	0.038	#
14)		Endrin	7.852	8.711	12432	86283	0.004	0.022	#
15)		4,4'-DDD	7.911	8.751	18026	44442	0.007	0.062	#
16)		Endosulfa...	8.004	8.862	229792	68437	0.077	BelowCal	#
17)		4,4'-DDT	8.112	8.977	42048	156623	0.016	0.038	#
18)		Endrin Al...	8.300	9.087	154413	151440	0.059	0.057	
19)		Endosulfa...	8.605	9.289	68096	203844	0.024	BelowCal	#
20)		Methoxychlor	8.464	9.452	99388	262606	0.082	BelowCal	#
21)		Endrin Ke...	8.786	9.687	50943	449438	0.015	BelowCal	#
23)		Hexachlor...	3.090	3.697	39616	63814	0.010	0.013	#
24)		Hexachlor...	5.679	6.447	458732	23069	0.136	BelowCal	#
25)		Oxychlordane	7.157	7.905	198607	23209	BelowCal	0.007	
26)		2,4'-DDE	7.262f	8.118	39204	50544	0.017	0.022	#
27)		trans-Non...	7.413	8.154f	92336	122733	0.025	0.034	#
28)		2,4'-DDD	7.602	8.482	9119	19454	0.005	0.010	#
29)		2,4'-DDT	7.794	8.711	20671	86283	0.009	BelowCal	#
30)		cis-Nonac...	7.899	8.751	14317	44442	0.004	0.011	#
31)		Mirex	8.556	9.687	179129	449438 ~~8199.055~~	Q-ac1	BelowCal	#
32)		Chlordane...	7.312	8.118	154215	50544	0.385	0.116	#
33)		Chlordane...	7.413	8.216	92336	29538	0.190	0.081	#
34)		Chlordane...	7.957	8.902	16279	732441	0.125	6.168	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.413	8.471	92336	17547	5.641	0.595	#
37)		Toxaphene...	7.668f	8.807	15162	39634	0.483	0.986	#
38)		Toxaphene...	8.004	8.832	229792	160410	0.105	2.479	#
39)		Toxaphene...	8.267f	8.902	188436	732441	BelowCal	3.431	
40)		Toxaphene...	8.474	9.087	94749	151440	1.748	2.642	#
41)		Toxaphene...	8.536	9.452	72757	262606	0.957	3.976	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.556min 8199.055 ng/mL Q DCI

response 179129

MJB 2/3/20

(31) Mirex #2

9.687min -0.035 ng/mL

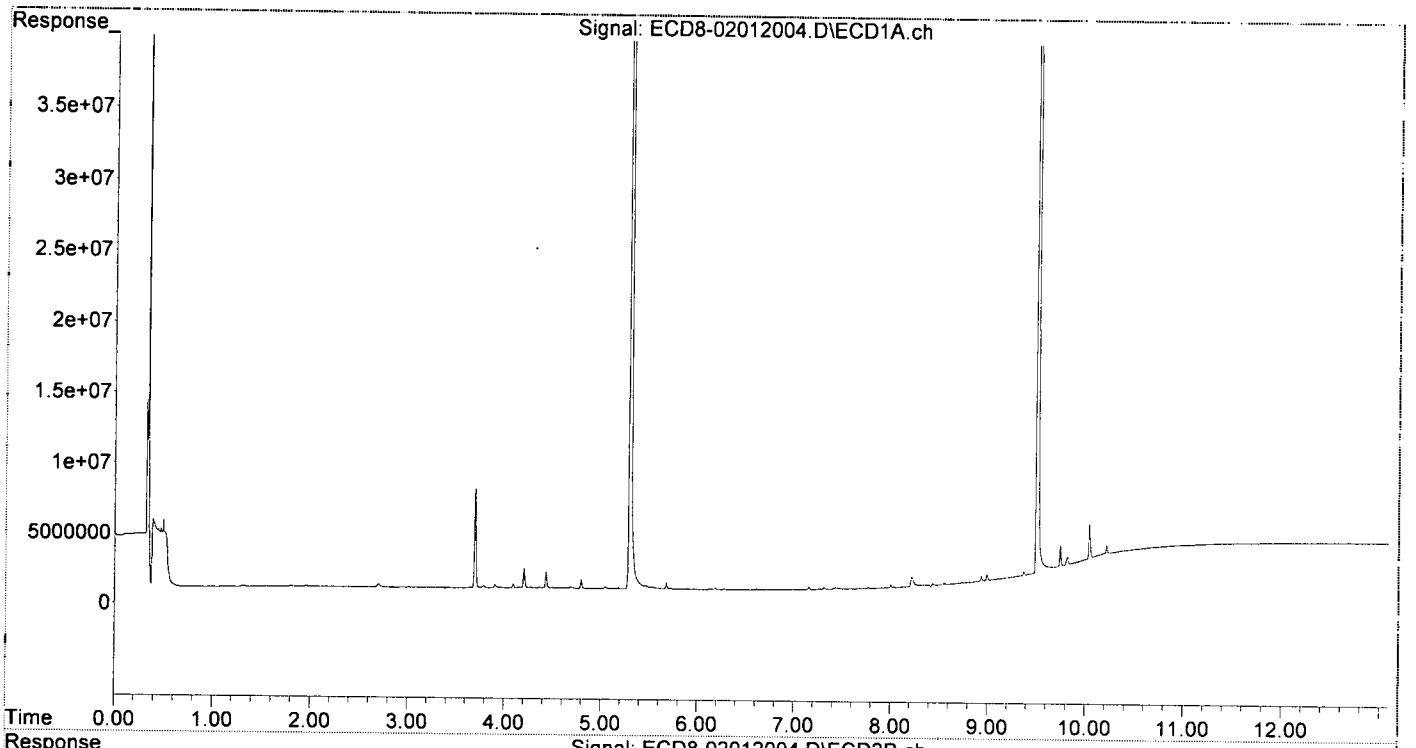
response 449438

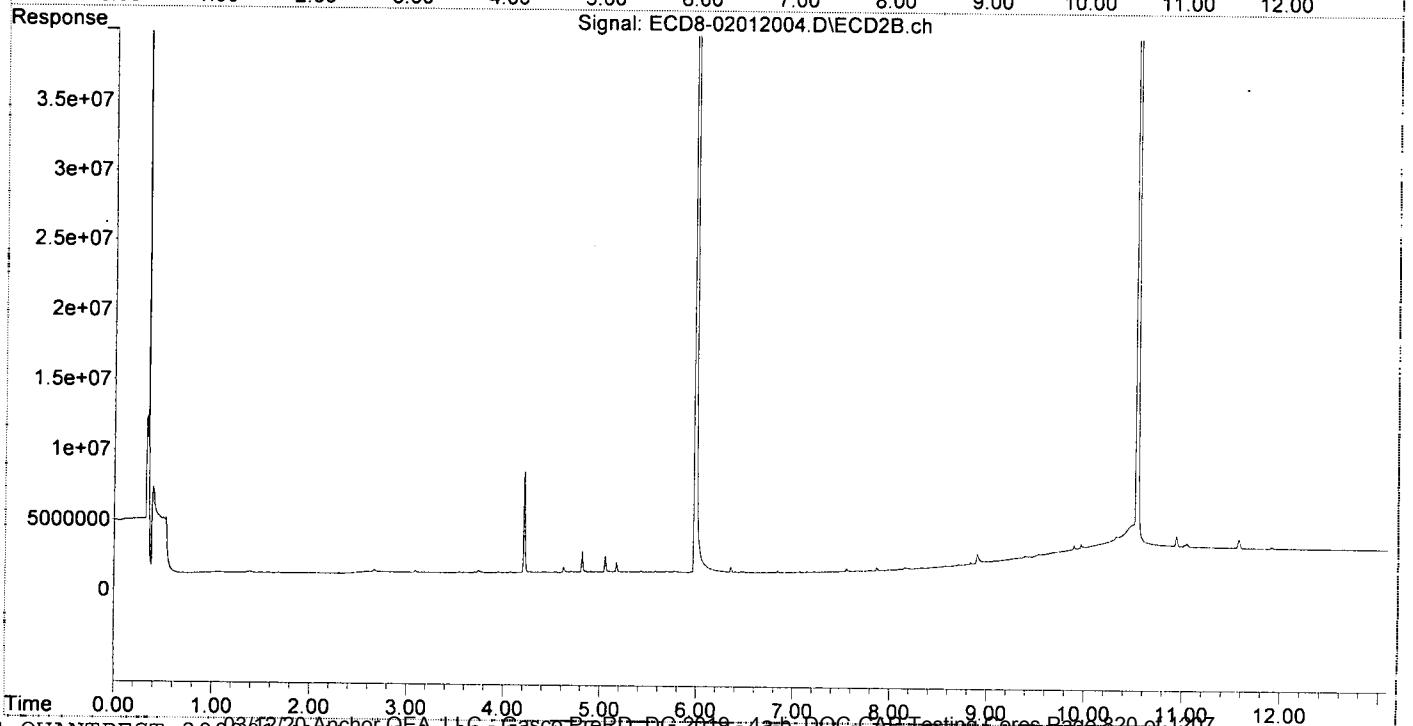
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:58
Operator : MJB
Sample : 0B01012-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

clean

MJB 2/3/20

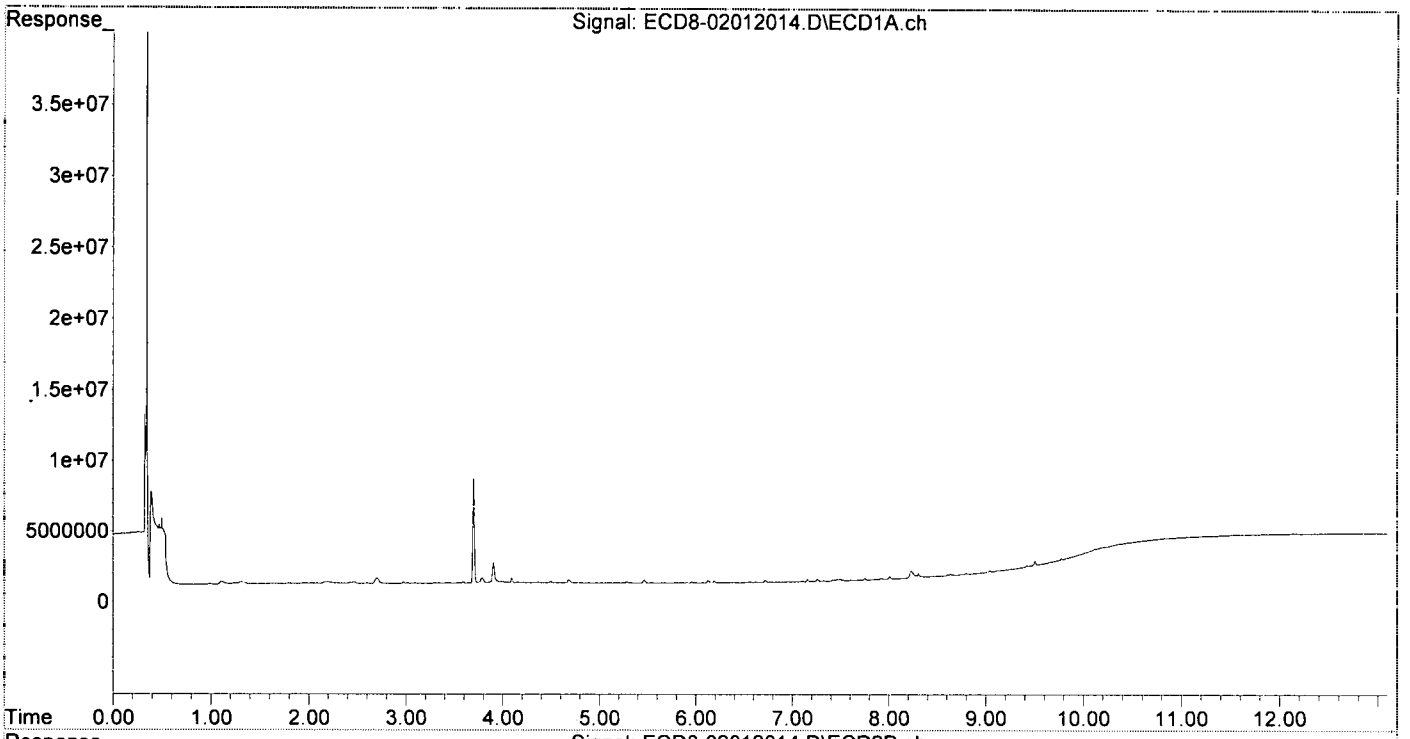
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.282	5.982	95189	41890	0.027	0.012 #
22)	S DCBP (S)	9.507	10.537	492471	638877	BelowCal	BelowCal
	Target Compounds						
2)	a-BHC	5.841	6.586	40611	26491	0.009	0.082 #
3)	g-BHC	6.125	6.905	169328	10004	0.041	0.045
4)	b-BHC	6.187	6.971	134965	31544	0.077	0.018 #
5)	Heptachlor	6.558f	7.276	59400	16903	0.014	0.004 #
6)	d-BHC	6.362	7.219	23778	220481	0.113	0.160 #
7)	Aldrin	6.771	7.542	15122	21973	0.004	0.018 #
8)	Heptachlo...	7.230	7.979	30323	29133	0.008	0.008
9)	trans-Chl...	7.327	8.120	42161	68307	0.011	0.018 #
10)	cis-Chlor...	7.421	8.225	69327	52479	0.019	0.015
11)	Endosulfa...	7.515	8.279	72783	42494	0.021	0.013 #
12)	4,4'-DDE	7.495	8.335	156047	124848	0.047	0.128 #
13)	Dieldrin	7.692	8.481	40938	40016	0.011	0.044 #
14)	Endrin	7.855	8.687	23482	32550	0.007	0.004 #
15)	4,4'-DDD	7.917	8.754	110975	131623	0.044	0.099 #
16)	Endosulfa...	8.008	8.853	203315	117522	0.068	0.014 #
17)	4,4'-DDT	8.121	8.959	16693	360032	0.006	0.121 #
18)	Endrin Al...	8.305	9.093	313791	318073	0.119	0.120
19)	Endosulfa...	8.606	9.283	95656	238213	0.033	0.006 #
20)	Methoxychlor	8.462	9.474f	24356	271741	0.020	BelowCal #
21)	Endrin Ke...	8.798	9.683	102576	562674	0.030	BelowCal #
23)	Hexachlor...	3.088	3.698	37161	78542	0.010	0.016 #
24)	Hexachlor...	5.647f	6.467	15412	65013	0.005	BelowCal #
25)	Oxychlordane	7.157	7.900	204406	27429	BelowCal	0.009
26)	2,4'-DDE	7.230	8.120	30323	68307	0.013	0.030 #
27)	trans-Non...	7.421	8.148f	69327	187721	0.019	0.052 #
28)	2,4'-DDD	7.606	8.481	38787	40016	0.020	0.021
29)	2,4'-DDT	7.810	8.687f	10870	32550	0.005	BelowCal #
30)	cis-Nonac...	7.890	8.754	27167	131623	0.007	0.033 #
31)	Mirex	8.549	9.683	26934	562674	8199.118	0.020 #
32)	Chlordane...	7.327	8.120	42161	68307	0.105	0.157 #
33)	Chlordane...	7.421	8.225	69327	52479	0.143	0.144
34)	Chlordane...	7.982	8.913f	31330	566953	0.241	4.774 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.378f	8.451	8568	24651	0.523	0.836 #
37)	Toxaphene...	7.692	8.797	40938	54945	1.303	1.367
38)	Toxaphene...	8.008	8.834	203315	146142	96751.049	2.259 #
39)	Toxaphene...	8.230	8.913	534790	566953	1.302	1.711 #
40)	Toxaphene...	8.462	9.093	24356	318073	0.449	5.548 #
41)	Toxaphene...	8.549	9.474	26934	271741	0.354	4.114 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

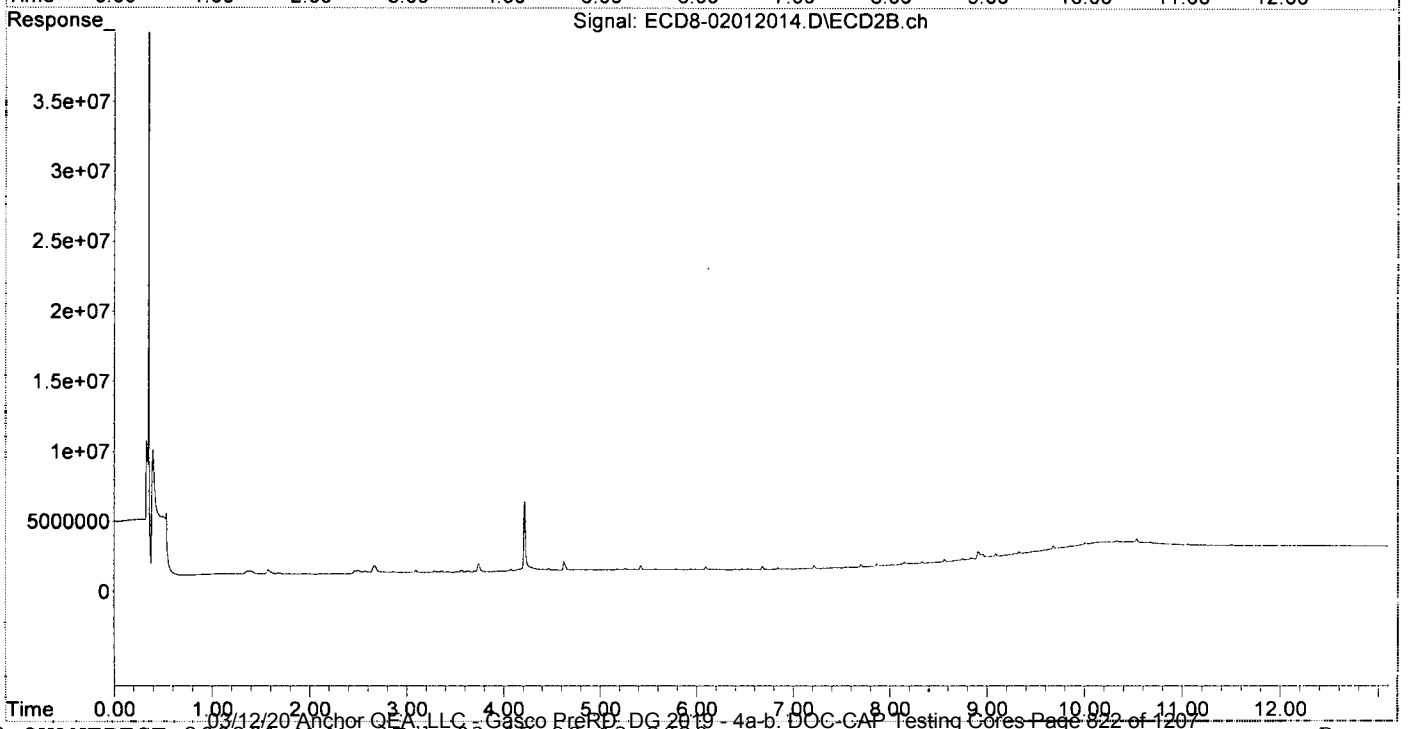
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:58
Operator : MJB
Sample : 0B01012-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:14
Operator : MJB
Sample : 0B01012-ICV1
Misc : A19I209, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

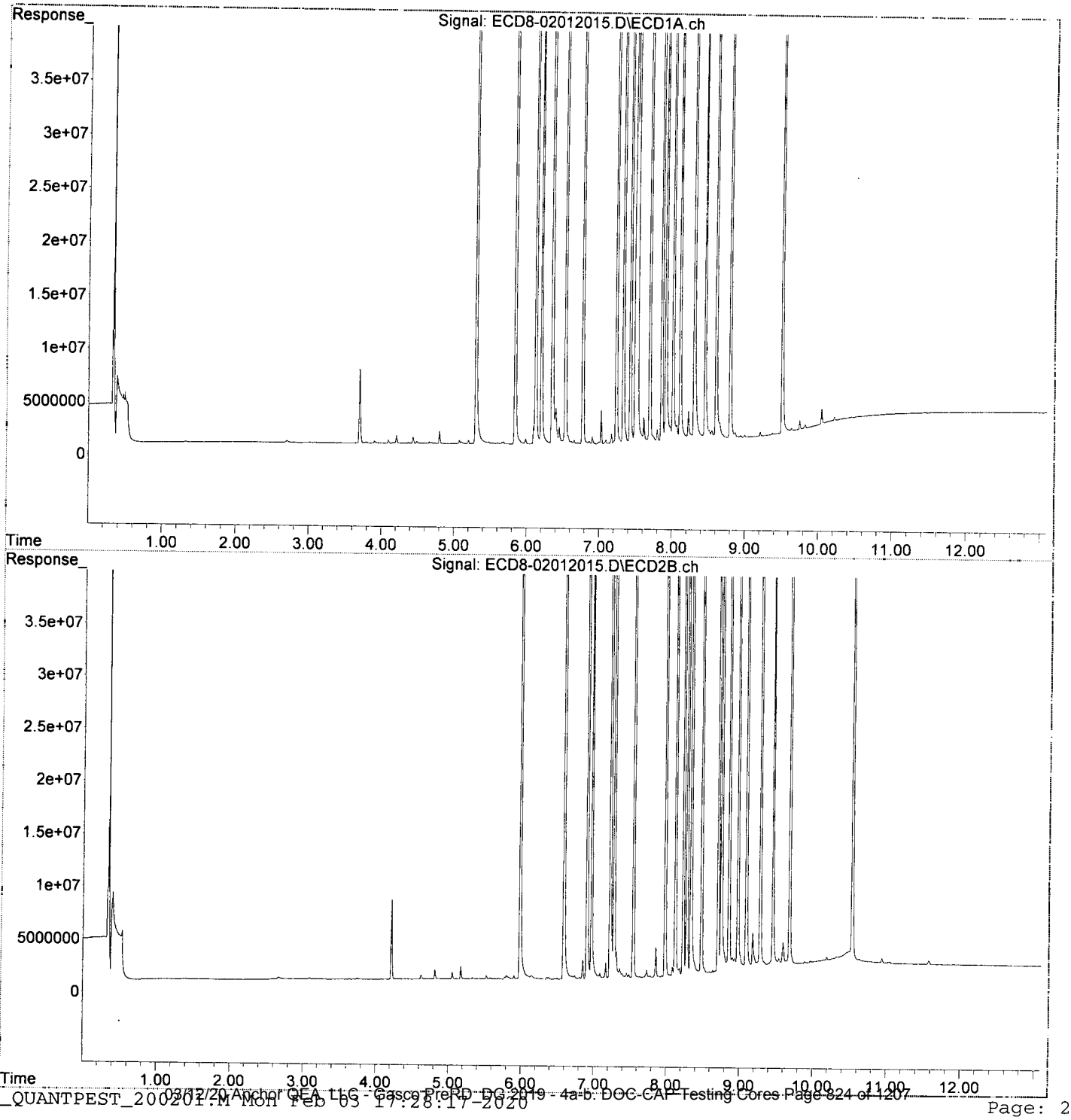
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	161.5E6	170.2E6	46.195	49.336	
22)	S DCBP (S)	9.507	10.537	121.2E6	103.5E6	46.127	48.299	
	Target Compounds							
2)	a-BHC	5.836	6.585	229.8E6	234.7E6	48.636	50.205	
3)	g-BHC	6.119	6.902	206.9E6	218.0E6	49.693	51.692	
4)	b-BHC	6.197	6.965	84698578	85149025	48.631	49.048	
5)	Heptachlor	6.528	7.275	189.4E6	205.5E6	46.071	48.814	
6)	d-BHC	6.345	7.220	183.4E6	202.2E6	50.101	52.145	
7)	Aldrin	6.768	7.542	191.7E6	197.5E6	47.446	49.215	
8)	Heptachlo...	7.229	7.978	171.2E6	174.6E6	46.371	48.636	
9)	trans-Chl...	7.325	8.118	179.3E6	186.6E6	47.670	50.173	
10)	cis-Chlor...	7.422	8.226	168.4E6	171.6E6	45.853	48.724	
11)	Endosulfa...	7.518	8.277	162.0E6	161.8E6	46.717	48.957	
12)	4,4'-DDE	7.489	8.331	165.0E6	164.8E6	49.676	48.331	
13)	Dieldrin	7.690	8.477	188.0E6	189.8E6	49.305	50.546	
14)	Endrin	7.853	8.705	164.0E6	155.5E6	50.237	50.079	
15)	4,4'-DDD	7.910	8.748	129.6E6	130.8E6	50.915	49.486	
16)	Endosulfa...	8.011	8.853	149.5E6	151.0E6	49.958	52.295	
17)	4,4'-DDT	8.108	8.975	135.9E6	147.2E6	50.543	52.860	
18)	Endrin Al...	8.301	9.090	136.2E6	139.5E6	51.748	52.770	
19)	Endosulfa...	8.602	9.281	144.2E6	144.3E6	50.385	52.603	
20)	Methoxychlor	8.451	9.454	57032855	59892133	47.266	49.852	
21)	Endrin Ke...	8.796	9.683	164.0E6	157.7E6	47.452	50.956	
23)	Hexachlor...	3.087	3.682	42461	16308	0.011	0.003	#
24)	Hexachlor...	5.679	6.463	256563	76800	0.076	BelowCal	#
25)	Oxychlordane	7.166	7.887	908282	117801	0.116	0.037	#
26)	2,4'-DDE	7.229	8.118	171.2E6	186.6E6	74.063	82.078	
27)	trans-Non...	7.422	8.176	168.4E6	774108	45.929	0.214	#
28)	2,4'-DDD	7.610	8.477	2312332	189.8E6	1.194	99.161	#
29)	2,4'-DDT	7.794	8.705	1125090	155.5E6	0.470	64.983	#
30)	cis-Nonac...	7.910f	8.748	129.6E6	130.8E6	31.842	32.820	
31)	Mirex	8.543	9.683	761345	157.7E6	0.108	73.098	#
32)	Chlordane...	7.325	8.118	179.3E6	186.6E6	447.623	429.399	
33)	Chlordane...	7.422	8.226	168.4E6	171.6E6	346.239	472.112	#
34)	Chlordane...	7.972	8.902	1387735	1671965	10.659	14.079	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.477f	168.4E6	189.8E6	10286.590	6441.428	#
37)	Toxaphene...	7.690	0.000	188.0E6	0	5984.930	N.D.	#
38)	Toxaphene...	8.011	8.853	149.5E6	151.0E6	2168.521	2334.476	
39)	Toxaphene...	8.222f	8.902	2723388	1671965	35.032	13.190	#
40)	Toxaphene...	8.451	9.090	57032855	139.5E6	1052.221	2433.482	#
41)	Toxaphene...	8.543	9.454	761345	59892133	10.011	906.717	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:14
Operator : MJB
Sample : 0B01012-ICV1
Misc : A19I209, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:03
Operator : MJB
Sample : 0B01012-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Clean

MJB 2/3/20

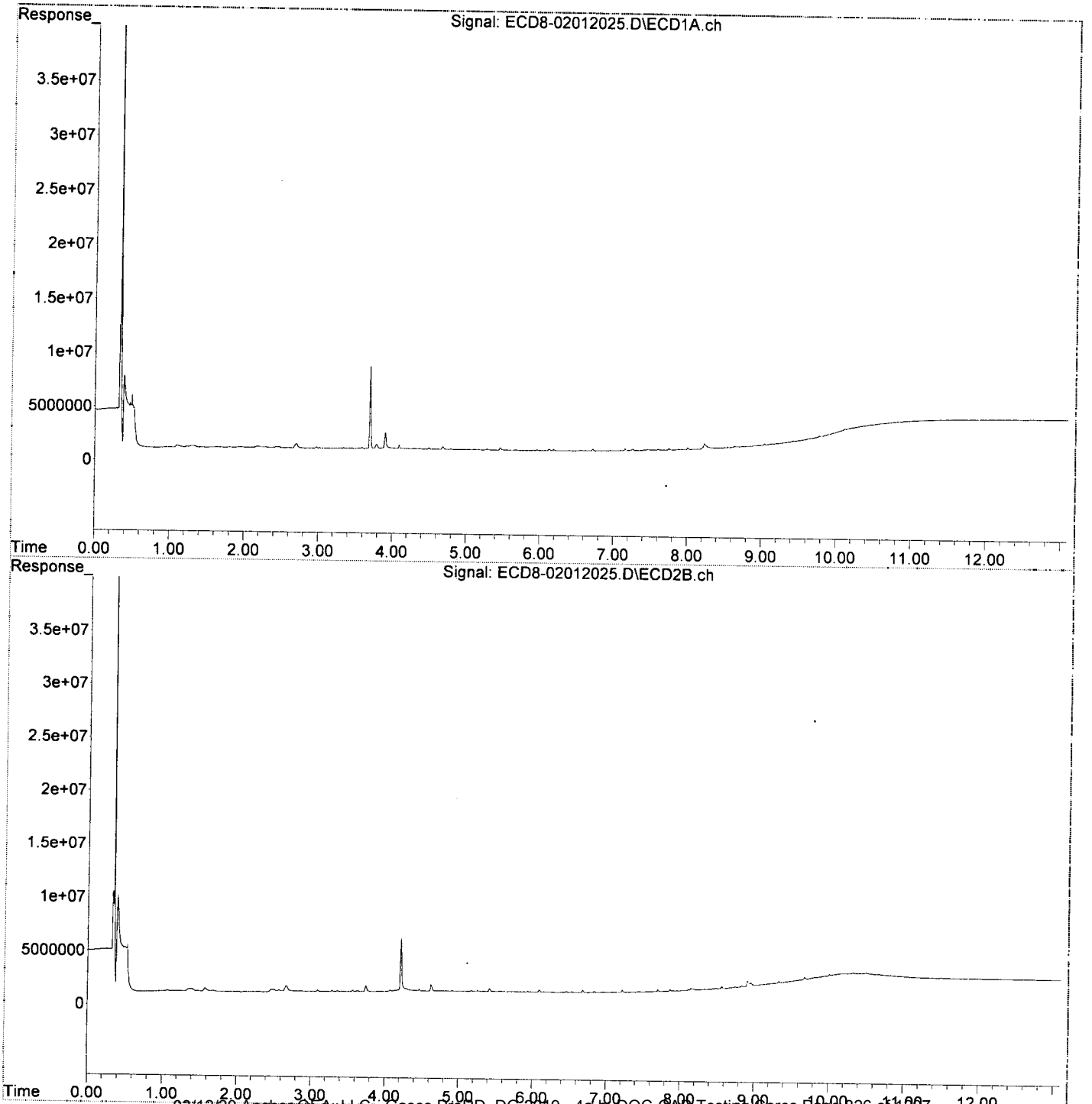
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.283	5.983	94989	23258	0.027	0.007	#
22)	S	DCBP (S)	9.514	10.527	177944	664094	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.844	6.576	30623	16777	0.006	0.080	#
3)		g-BHC	6.127	6.894	153765	9160	0.037	0.044	
4)		b-BHC	6.188	6.967	128047	20253	0.074	0.012	#
5)		Heptachlor	6.524	7.278	11922	6428	0.003	0.002	#
6)		d-BHC	6.367f	7.218	11022	220592	0.110	0.161	#
7)		Aldrin	0.000	7.537	0	9312	N.D.	0.015	#
8)		Heptachlo...	7.210f	7.984	16052	13063	0.004	0.004	
9)		trans-Chl...	0.000	8.116	0	77139	N.D.	0.021	#
10)		cis-Chlor...	7.414	8.224	80061	31717	0.022	0.009	#
11)		Endosulfa...	7.553f	8.275	23890	16141	0.007	0.005	#
12)		4,4'-DDE	7.466f	8.332	82438	33244	0.025	0.099	#
13)		Dieldrin	7.691	8.486	6060	76038	0.002	0.054	#
14)		Endrin	7.853	8.713	11218	48797	0.003	0.009	#
15)		4,4'-DDD	7.885f	8.748	59493	109850	0.023	0.090	#
16)		Endosulfa...	8.007	8.870	182279	87567	0.061	0.003	#
17)		4,4'-DDT	8.070f	8.986	31904	192313	0.012	0.053	#
18)		Endrin Al...	0.000	9.095	0	186028	N.D.	0.070	#
19)		Endosulfa...	8.606	9.282	15476	246717	0.005	0.010	#
20)		Methoxychlor	0.000	9.452	0	315059	N.D.	BelowCal	
21)		Endrin Ke...	8.799	9.679	25364	645286	0.007	0.006	
23)		Hexachlor...	3.092	3.698	39190	80389	0.010	0.017	#
24)		Hexachlor...	5.682	6.450	54914	66418	0.016	BelowCal	#
25)		Oxychlordane	7.157	7.904	214870	44528	BelowCal	0.014	
26)		2,4'-DDE	7.260f	8.116	160074	77139	0.069	0.034	#
27)		trans-Non...	7.414	8.181	80061	109331	0.022	0.030	#
28)		2,4'-DDD	7.611	8.486	83589	76038	0.043	0.040	
29)		2,4'-DDT	7.802	8.713	12656	48797	0.005	BelowCal	#
30)		cis-Nonac...	7.885	8.748	59493	109850	0.015	0.028	#
31)		Mirex	8.551	9.679	49750	645286	8199.108	0.059	#
32)		Chlordane...	0.000	8.116	0	77139	N.D.	0.178	#
33)		Chlordane...	7.414	8.224	80061	31717	0.165	0.087	#
34)		Chlordane...	7.937f	8.870	16054	87567	0.123	0.737	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.414	8.448	80061	43789	4.891	1.486	#
37)		Toxaphene...	7.691	8.800	6060	67393	0.193	1.677	#
38)		Toxaphene...	8.007	8.833	182279	173531	96751.347	2.682	#
39)		Toxaphene...	8.233	8.912	497865	586942	0.733	1.919	#
40)		Toxaphene...	8.506f	9.095	24411	186028	0.450	3.245	#
41)		Toxaphene...	8.551	9.471	49750	332364	0.654	5.032	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:03
Operator : MJB
Sample : 0B01012-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:19
Operator : MJB
Sample : 0B01012-ICV2
Misc : A19J410, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

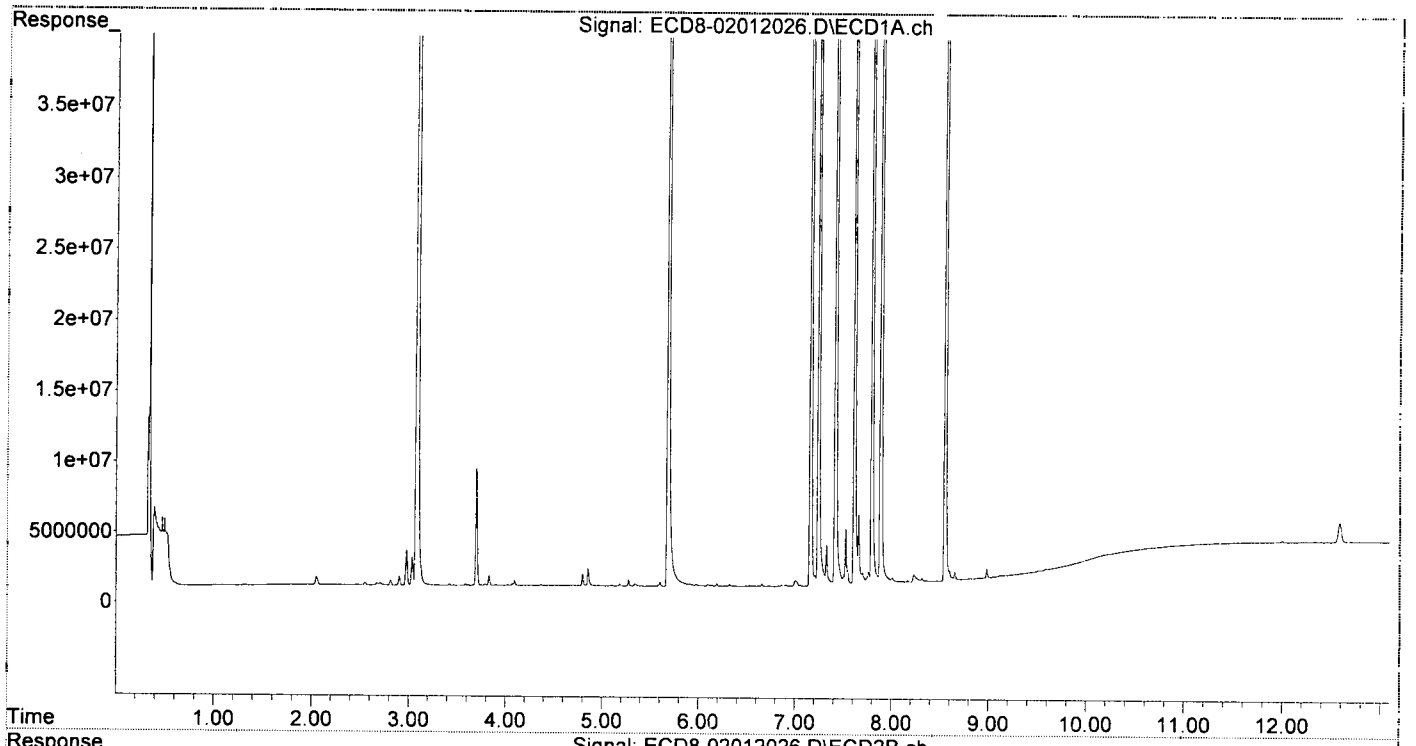
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.985	462494	95930	0.132	0.028	#
22)	S DCBP (S)	0.000	10.541	0	281717	N.D.	BelowCal	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.093f	6.930f	137773	44680	0.033	0.054	#
4)	b-BHC	6.188	6.975	203773	41755	0.117	0.024	#
5)	Heptachlor	6.530	7.276	90458	83748	0.022	0.020	
6)	d-BHC	6.350	7.226	35723	59805	0.117	0.115	
7)	Aldrin	6.732f	7.556	44684	118735	0.011	0.044	#
8)	Heptachlo...	7.239	0.000	117.6E6	0	31.851	N.D.	#
9)	trans-Chl...	7.325	8.110	2935963	120.8E6	0.781	32.490	#
10)	cis-Chlor...	7.415	8.226	187.6E6	4787498	51.073	1.359	#
11)	Endosulfa...	7.523	8.289	3930470	430643	1.133	0.130	#
12)	4,4'-DDE	7.523f	8.338	3930470	1591170	1.184	0.599	#
13)	Dieldrin	7.696	8.483	785221	103.4E6	0.206	28.389	#
14)	Endrin	7.885f	8.708	202.7E6	122.2E6	62.116	39.945	#
15)	4,4'-DDD	7.885f	8.748	202.7E6	209.6E6	79.656	74.760	
16)	Endosulfa...	8.007	8.831f	381343	324984	0.127	0.093	#
17)	4,4'-DDT	8.111	8.972	100313	174772	0.037	0.046	
18)	Endrin Al...	8.313	9.096	238470	106888	0.091	0.040	#
19)	Endosulfa...	8.594	9.287	696896	132261	0.243	BelowCal	#
20)	Methoxychlor	8.430f	0.000	7483	0	0.006	N.D.	#
21)	Endrin Ke...	8.799	9.674	40383	110.0E6	0.012	36.376	#
23)	Hexachlor...	3.081	3.681	192.4E6	251.3E6	49.353	51.898	
24)	Hexachlor...	5.679	6.448	169.5E6	170.1E6	50.413	54.016	
25)	Oxychlordane	7.158	7.907	165.5E6	166.6E6	53.310	52.105	
26)	2,4'-DDE	7.239	8.110	117.6E6	120.8E6	50.871	53.151	
27)	trans-Non...	7.415	8.181	187.6E6	195.5E6	51.157	54.156	
28)	2,4'-DDD	7.611	8.483	96774391	103.4E6	49.966	53.993	
29)	2,4'-DDT	7.793	8.708	119.4E6	122.2E6	49.908	52.169	
30)	cis-Nonac...	7.885	8.748	202.7E6	209.6E6	49.816	52.585	
31)	Mirex	8.550	9.674	122.9E6	110.0E6	50.851	51.488	
32)	Chlordane...	7.325	8.110	2935963	120.8E6	7.331	278.063	#
33)	Chlordane...	7.415	8.226	187.6E6	4787498	385.650	13.169	#
34)	Chlordane...	0.000	8.910f	0	567608	N.D.	4.780	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.415	8.483f	187.6E6	103.4E6	11457.489	3507.324	#
37)	Toxaphene...	7.696	8.831f	785221	324984	24.995	8.086	#
38)	Toxaphene...	8.007	8.831	381343	324984	2.257	5.023	#
39)	Toxaphene...	8.231	8.910	516481	567608	1.020	1.718	#
40)	Toxaphene...	0.000	9.096	0	106888	N.D.	1.864	#
41)	Toxaphene...	8.550	0.000	122.9E6	0	1615.893	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

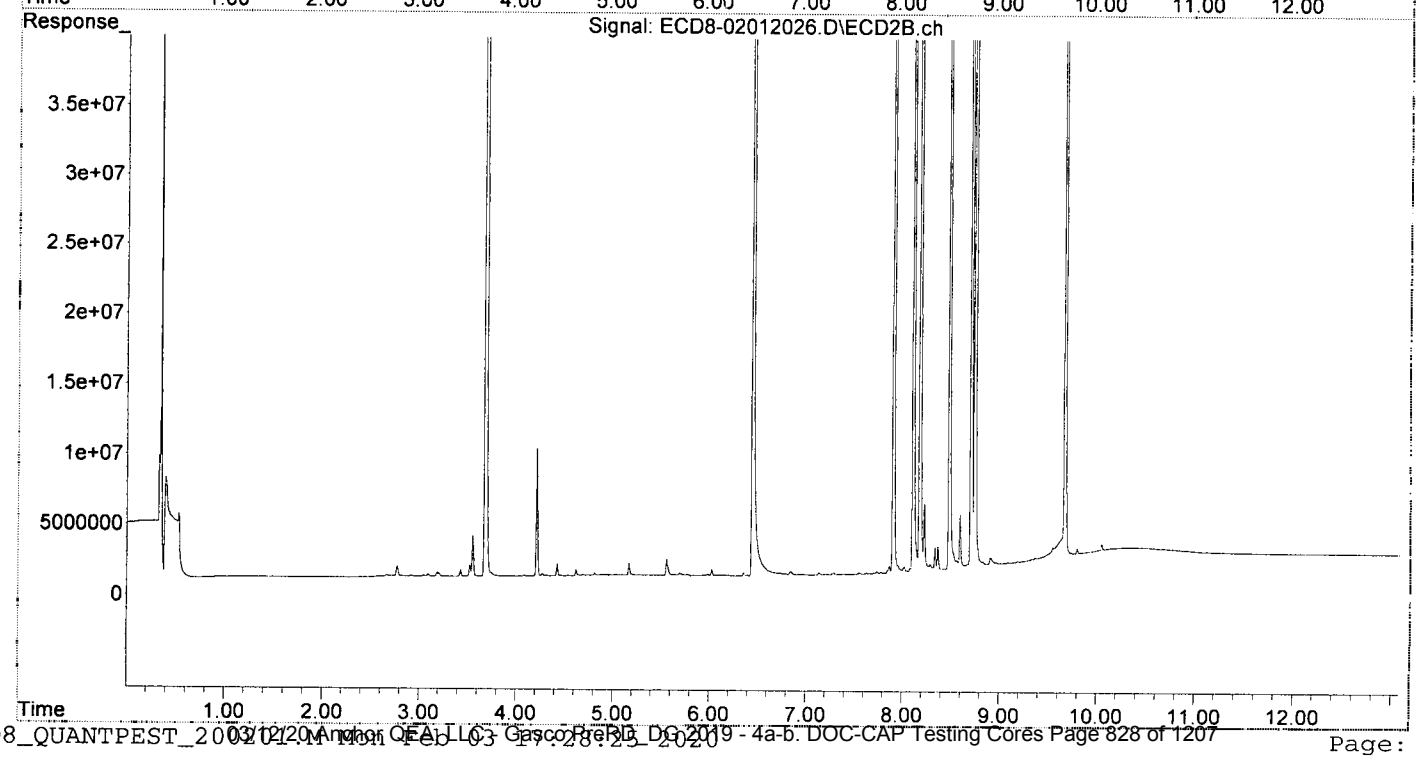
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:19
Operator : MJB
Sample : 0B01012-ICV2
Misc : A19J410, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:34
Operator : MJB
Sample : 0B01012-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

Clean
MJB 4/7/20

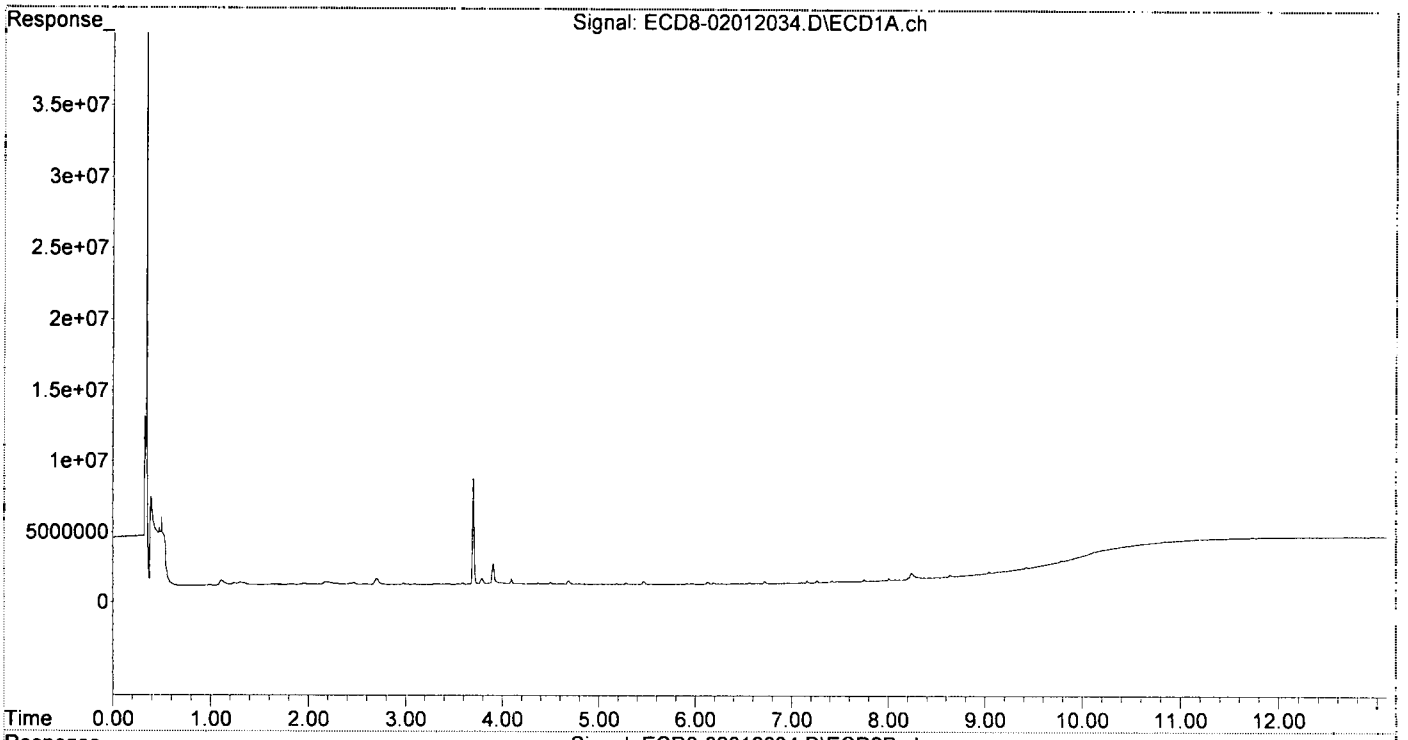
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.284	5.981	98733	19607	0.028	0.006	#
22)	S	DCBP (S)	9.501	10.541	43622	892875	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.843	6.582	32066	15598	0.007	0.079	#
3)		g-BHC	6.127	6.895	147613	9454	0.035	0.045	#
4)		b-BHC	6.189	6.970	119234	17521	0.068	0.010	#
5)		Heptachlor	6.527	7.275	14667	10777	0.004	0.003	#
6)		d-BHC	6.367f	7.217	10408	217359	0.110	0.160	#
7)		Aldrin	0.000	7.544	0	8142	N.D.	0.014	#
8)		Heptachlo...	7.236	7.986	5046	6578	0.001	0.002	#
9)		trans-Chl...	7.326	8.119	53333	91075	0.014	0.024	#
10)		cis-Chlor...	7.419	8.225	105017	86465	0.029	0.025	
11)		Endosulfa...	7.525	8.288	26172	22868	0.008	0.007	
12)		4,4'-DDE	7.495	8.336	49124	41336	0.015	0.101	#
13)		Dieldrin	7.698	8.484	7070	39354	0.002	0.043	#
14)		Endrin	7.859	8.703	12270	79900	0.004	0.020	#
15)		4,4'-DDD	7.888f	8.743	18486	115044	0.007	0.092	#
16)		Endosulfa...	8.008	8.863	170981	141352	0.057	0.023	#
17)		4,4'-DDT	8.144f	8.958	8826	502369	0.003	0.179	#
18)		Endrin Al...	8.324f	9.088	70572	255337	0.027	0.097	#
19)		Endosulfa...	8.612	9.258f	11851	310903	0.004	0.035	#
20)		Methoxychlor	0.000	9.444	0	419254	N.D.	0.021	#
21)		Endrin Ke...	8.801	9.683	24694	755300	0.007	0.045	#
23)		Hexachlor...	3.089	3.699	46593	89255	0.012	0.018	#
24)		Hexachlor...	5.681	6.447	17569	20176	0.005	BelowCal	#
25)		Oxychlordane	7.158	7.898	191148	33286	BelowCal	0.010	
26)		2,4'-DDE	7.236	8.119	5046	91075	0.002	0.040	#
27)		trans-Non...	7.419	8.179	105017	116839	0.029	0.032	
28)		2,4'-DDD	7.606	8.484	44103	39354	0.023	0.021	
29)		2,4'-DDT	7.797	8.703	7157	79900	0.003	BelowCal	#
30)		cis-Nonac...	7.888	8.743	18486	115044	0.005	0.029	#
31)		Mirex	8.552	9.683	10661	755300	8199.124	0.113	#
32)		Chlordane...	7.326	8.119	53333	91075	0.133	0.210	#
33)		Chlordane...	7.419	8.225	105017	86465	0.216	0.238	
34)		Chlordane...	7.968	8.871	17623	139736	0.135	1.177	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.419	8.449	105017	55813	6.415	1.894	#
37)		Toxaphene...	7.698	8.803	7070	116894	0.225	2.909	#
38)		Toxaphene...	8.008	8.835	170981	214719	96751.508	3.319	#
39)		Toxaphene...	8.238	8.917	436383	588264	BelowCal	1.932	
40)		Toxaphene...	8.509f	9.088	27476	255337	0.507	4.454	#
41)		Toxaphene...	8.552	9.469	10661	443021	0.140	6.707	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

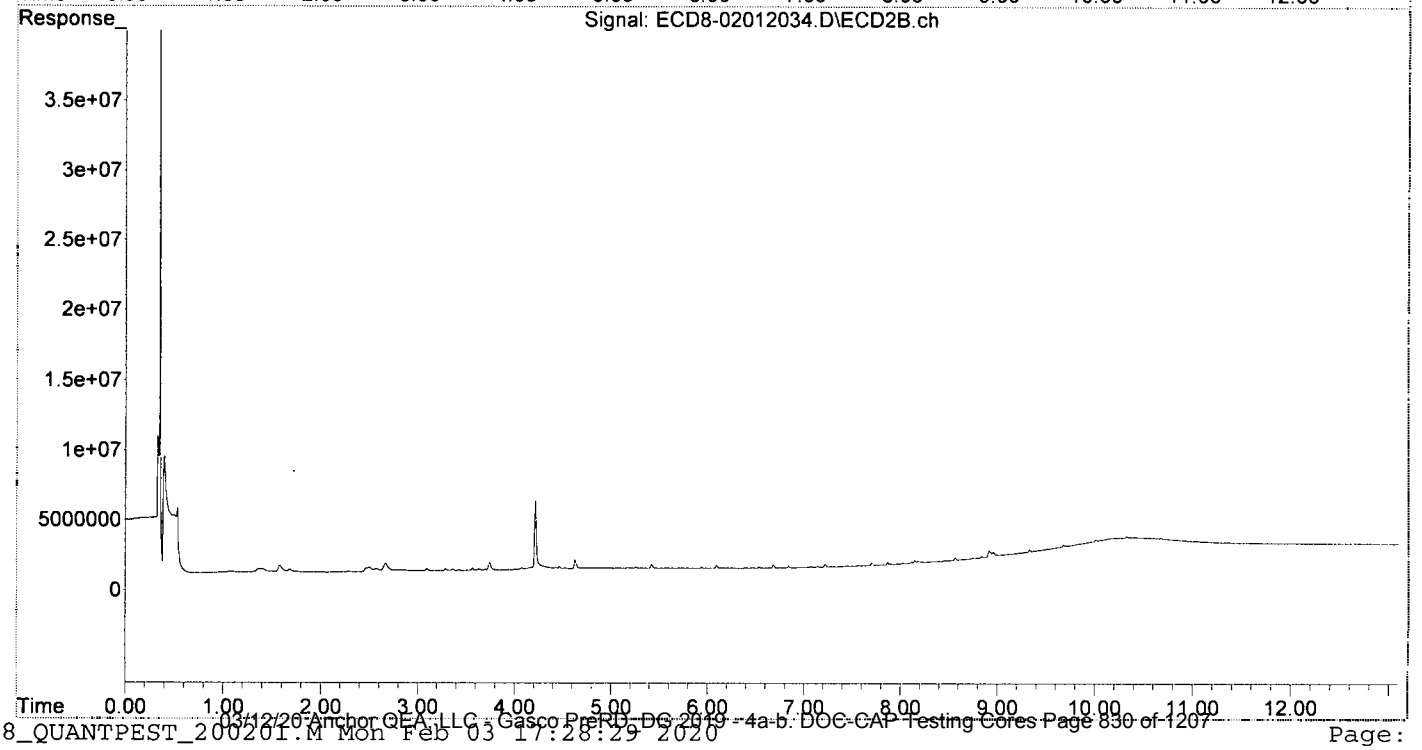
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:34
Operator : MJB
Sample : 0B01012-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:51
Operator : MJB
Sample : 0B01012-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.983	102103	114036	0.029	0.033	
22)	S DCBP (S)	9.509	10.549	442158	682174	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.825	6.611f	85836	3734765	0.018	0.949	#
3)	g-BHC	6.136	6.910	181902	1927747	0.044	0.536	#
4)	b-BHC	6.221f	6.976	2518888	174115	1.446	0.100	#
5)	Heptachlor	6.528	7.274	92158802	97916408	22.423	23.254	
6)	d-BHC	6.339	7.208	718608	505684	0.314	0.242	
7)	Aldrin	6.770	7.547	1187019	921583	0.294	0.258	
8)	Heptachlo...	7.238	7.996	14634580	4901611	3.963	1.365	#
9)	trans-Chl...	7.325	8.117	201.2E6	226.8E6	53.492	60.988	
10)	cis-Chlor...	7.419	8.224	236.0E6	186.7E6	64.272	52.989	
11)	Endosulfa...	7.517	8.297	2057409	3309611	0.593	1.001	#
12)	4,4'-DDE	7.497	8.319	3275087	4515911	0.986	1.535	#
13)	Dieldrin	7.704	8.477	6365894	20372847	1.669	5.804	#
14)	Endrin	7.843	8.722	3743006	2426447	1.147	0.836	#
15)	4,4'-DDD	7.884f	8.747	34316093	33227371	13.484	13.772	
16)	Endosulfa...	8.018	8.863	4068702	3863150	1.360	1.432	
17)	4,4'-DDT	8.086f	8.984	1132289	1512448	0.421	0.591	#
18)	Endrin Al...	8.326f	9.059f	1343763	1268334	0.510	0.480	
19)	Endosulfa...	8.608	9.284	2627202	373379	0.918	0.060	#
20)	Methoxychlor	8.452	9.457	1412232	518826	1.170	0.116	#
21)	Endrin Ke...	8.793	9.681	404117	2170568	0.117	0.547	#
23)	Hexachlor...	3.089	3.682	49383	24358	0.013	0.005	#
24)	Hexachlor...	5.655f	6.463	318404	79911	0.095	BelowCal	#
25)	Oxychlordane	7.152	7.920	1885219	2613453	0.434	0.817	#
26)	2,4'-DDE	7.238	8.117	14634580	226.8E6	6.330	99.769	#
27)	trans-Non...	7.419	8.180	236.0E6	172.1E6	64.379	47.667	#
28)	2,4'-DDD	7.642f	8.477	25008246	20372847	12.912	10.643	
29)	2,4'-DDT	7.812	8.722	5408636	2426447	2.260	1.089	#
30)	cis-Nonac...	7.884	8.747	34316093	33227371	8.433	8.338	
31)	Mirex	8.545	9.681	466067	2170568	8198.936	0.796	#
32)	Chlordane...	7.325	8.117	201.2E6	226.8E6	502.297	521.954	
33)	Chlordane...	7.419	8.224	236.0E6	186.7E6	485.318	513.436	
34)	Chlordane...	7.966	8.888	63830007	57949683	490.255	487.975	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.390	8.477f	28796553	20372847	1759.169	691.332	#
37)	Toxaphene...	7.704	8.803	6365894	5219875	202.636	129.883	#
38)	Toxaphene...	7.997	8.839	2979211	5324116	39.178	82.294	#
39)	Toxaphene...	8.245	8.888	2823883	57949683	36.580	573.914	#
40)	Toxaphene...	8.452	9.059f	1412232	1268334	26.055	22.124	
41)	Toxaphene...	8.545	9.457	466067	518826	6.128	7.855	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

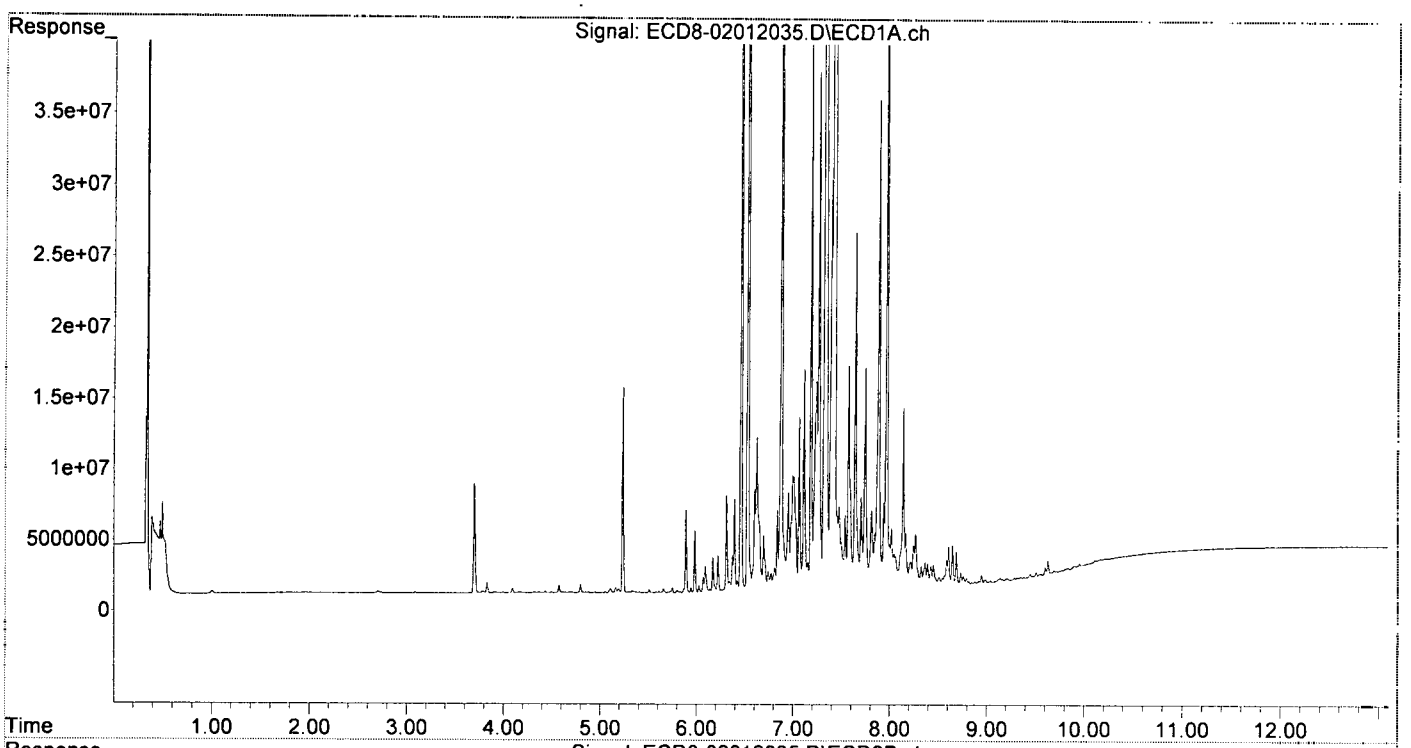
A B
492.62 507.79

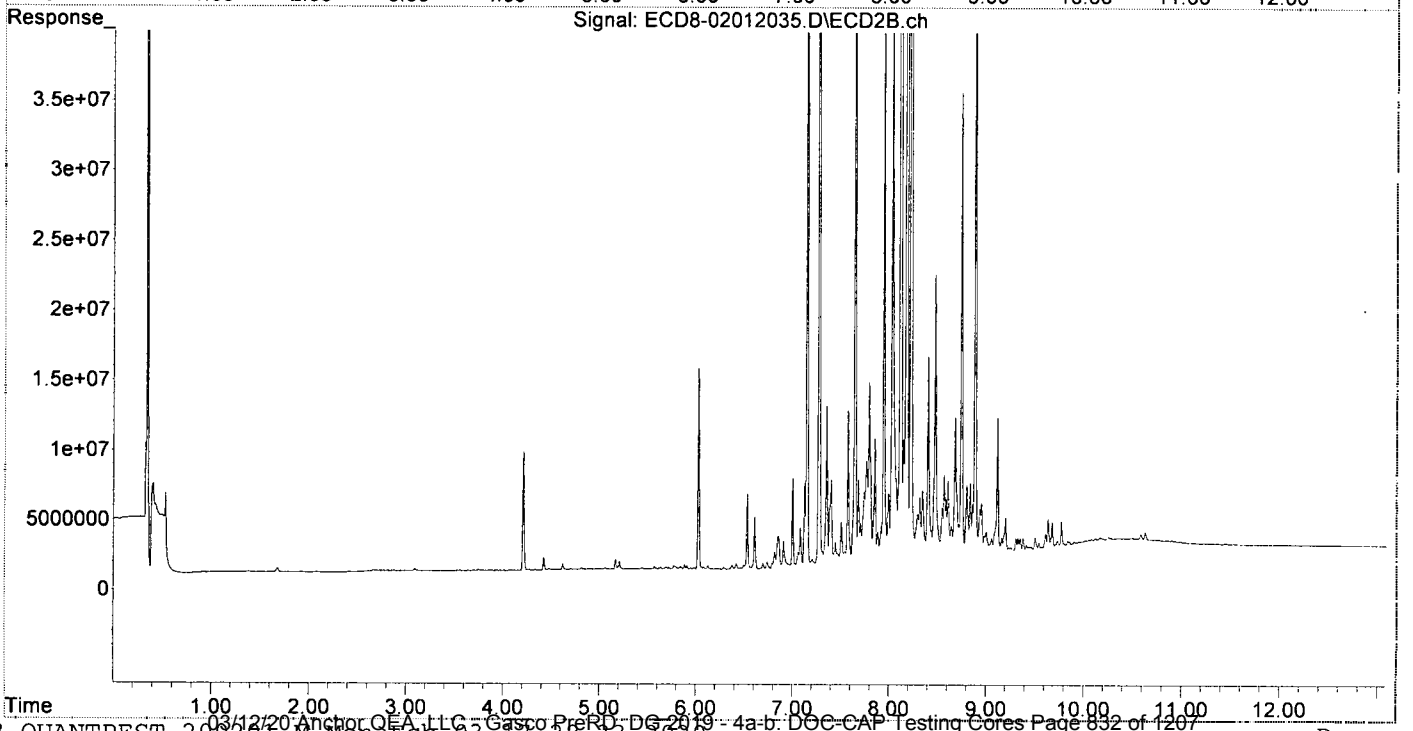
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:51
Operator : MJB
Sample : 0B01012-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:05
Operator : MJB
Sample : 0B01012-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

clean
MJB 2/3/20

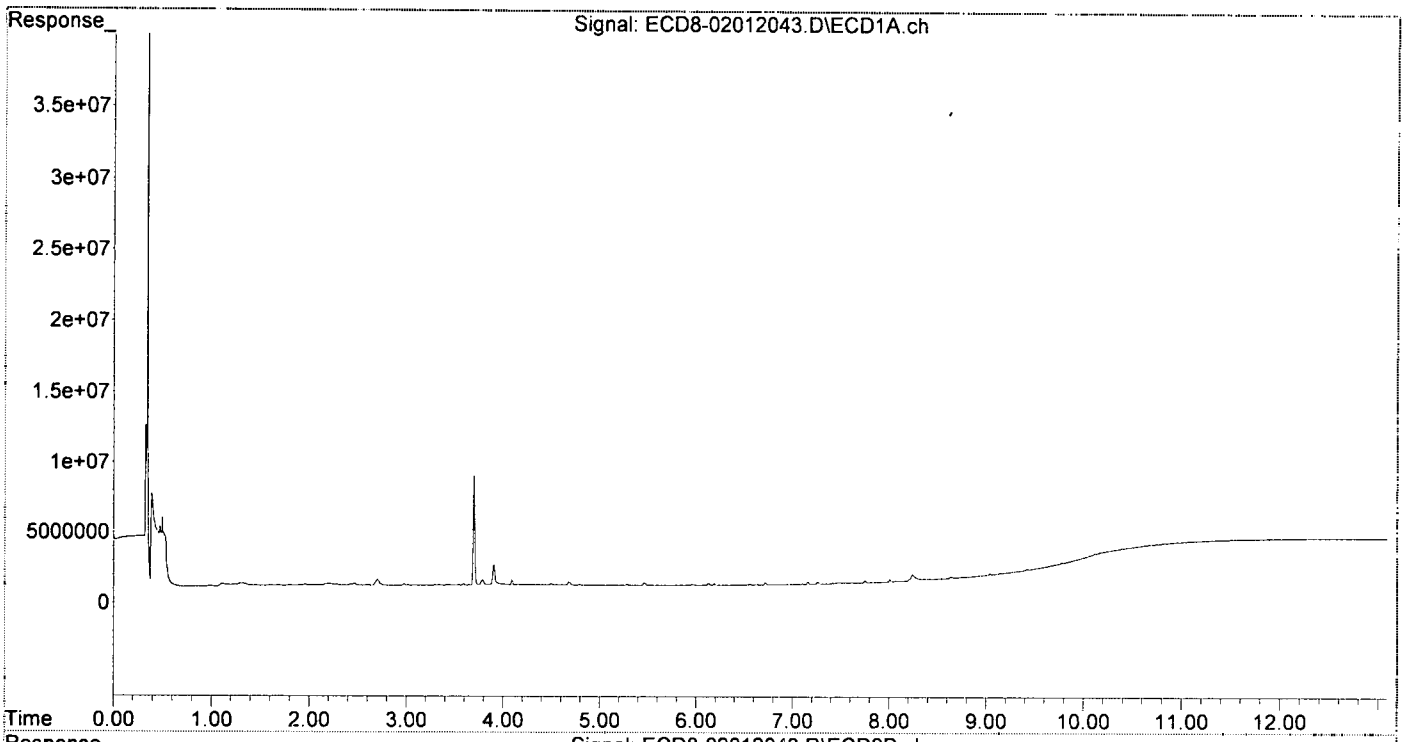
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.283	5.983	97129	10331	0.028	0.003	#
22)	S	DCBP (S)	9.505	10.525	158391	742061	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.841	6.573	31406	23051	0.007	0.081	#
3)		g-BHC	6.129	6.892	144324	11670	0.035	0.045	#
4)		b-BHC	6.189	6.979	120878	17225	0.069	0.010	#
5)		Heptachlor	6.527	7.312f	11185	14708	0.003	0.003	#
6)		d-BHC	6.367f	7.217	13198	216044	0.110	0.159	#
7)		Aldrin	0.000	7.566f	0	50700	N.D.	0.026	#
8)		Heptachlo...	7.226	7.956f	5275	8156	0.001	0.002	#
9)		trans-Chl...	7.330	8.119	12534	38481	0.003	0.010	#
10)		cis-Chlor...	7.416	8.253f	46476	21068	0.013	0.006	#
11)		Endosulfa...	7.527	8.253f	34189	21068	0.010	0.006	#
12)		4,4'-DDE	7.483	8.332	59358	25862	0.018	0.096	#
13)		Dieldrin	7.690	8.447f	8788	41379	0.002	0.044	#
14)		Endrin	7.864	8.744f	6653	55434	0.002	0.012	#
15)		4,4'-DDD	7.920	8.744	5377	55434	0.002	0.067	#
16)		Endosulfa...	8.008	8.832f	183369	166976	0.061	0.033	#
17)		4,4'-DDT	8.103	8.957	3941	417819	0.001	0.145	#
18)		Endrin Al...	8.332f	0.000	76012	0	0.029	N.D.	#
19)		Endosulfa...	8.608	0.000	16050	0	0.006	N.D.	#
20)		Methoxychlor	8.449	0.000	14721	0	0.012	N.D.	#
21)		Endrin Ke...	8.799	9.682	24185	637900	0.007	0.003	#
23)		Hexachlor...	3.089	3.699	38132	80810	0.010	0.017	#
24)		Hexachlor...	5.674	6.467	16598	64540	0.005	BelowCal	#
25)		Oxychlordane	7.158	7.900	189063	29768	BelowCal	0.009	
26)		2,4'-DDE	7.226	8.119	5275	38481	0.002	0.017	#
27)		trans-Non...	7.416	8.186	46476	69988	0.013	0.019	#
28)		2,4'-DDD	7.605	8.447f	47788	41379	0.025	0.022	
29)		2,4'-DDT	7.796	8.744f	7574	55434	0.003	BelowCal	#
30)		cis-Nonac...	7.883	8.744	5420	55434	0.001	0.014	#
31)		Mirex	8.549	9.682	13158	637900	8199.123	0.056	#
32)		Chlordane...	7.330	8.119	12534	38481	0.031	0.089	#
33)		Chlordane...	7.416	8.199f	46476	58670	0.096	0.161	#
34)		Chlordane...	7.968	8.915f	5752	516817	0.044	4.352	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.416	8.447	46476	41379	2.839	1.404	#
37)		Toxaphene...	7.690	8.832f	8788	166976	0.280	4.155	#
38)		Toxaphene...	8.008	8.832	183369	166976	96751.332	2.581	#
39)		Toxaphene...	8.240	8.915	443613	516817	BelowCal	1.190	
40)		Toxaphene...	8.472	0.000	15357	0	0.283	N.D.	#
41)		Toxaphene...	8.542	0.000	12646	0	0.166	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

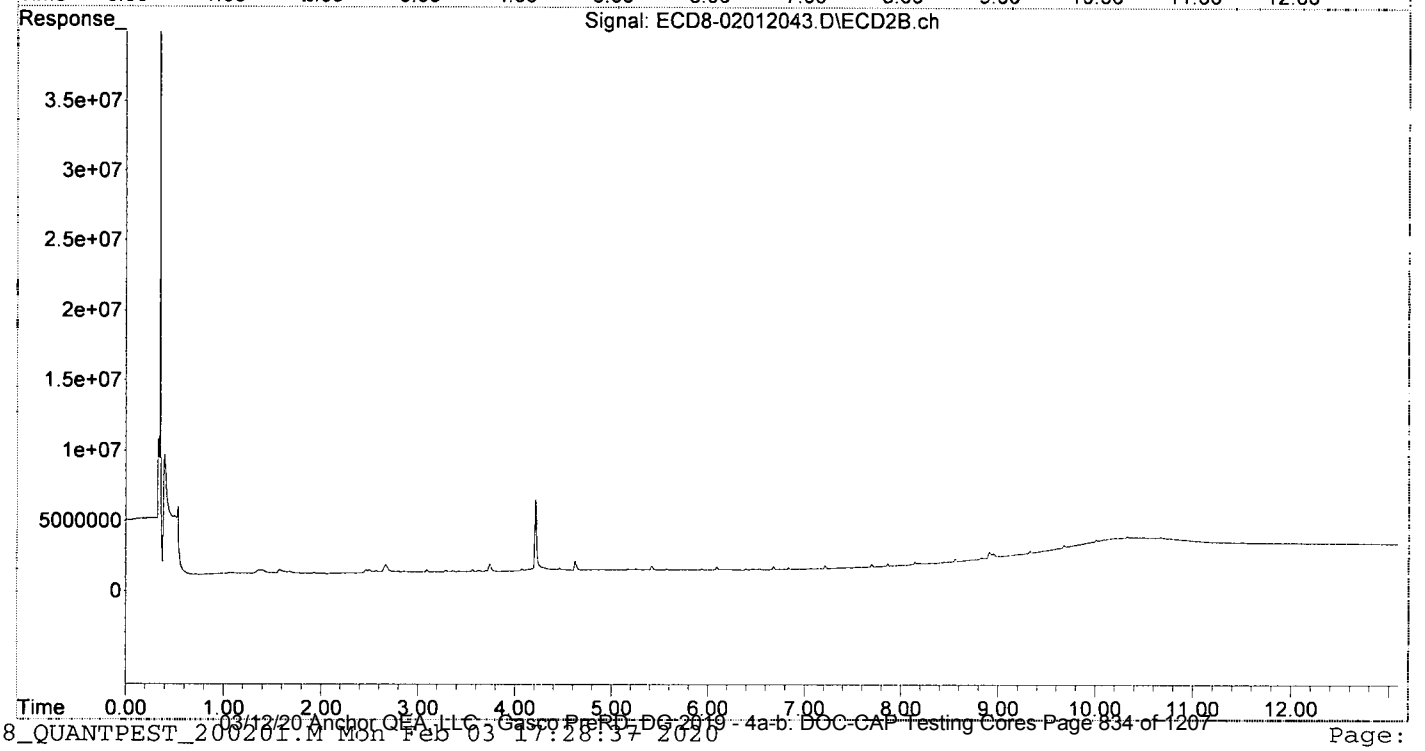
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:05
Operator : MJB
Sample : 0B01012-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:22
Operator : MJB
Sample : 0B01012-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MP 2/3/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.335f	5.983	110999	99182	0.032	0.029	
22)	S DCBP (S)	9.497	10.515f	693247	1717771	BelowCal	0.343	
	Target Compounds							
2)	a-BHC	5.835	6.586	99095	77467	0.021	0.094	#
3)	g-BHC	6.114	6.893	37764	131681	0.009	0.076	#
4)	b-BHC	6.186	6.975	248202	87005	0.143	0.050	#
5)	Heptachlor	6.528	7.276	319553	350072	0.078	0.083	
6)	d-BHC	6.329	7.219	100730	261363	0.136	0.172	#
7)	Aldrin	6.766	7.566f	717392	1005500	0.178	0.281	#
8)	Heptachlo...	7.231	7.970	2516758	4123931	0.682	1.149	#
9)	trans-Chl...	7.312	8.098f	3488495	4637356	0.928	1.247	#
10)	cis-Chlor...	7.399f	8.206f	7661138	4552878	2.086	1.292	#
11)	Endosulfa...	7.521	8.281	9638582	6414998	2.779	1.941	#
12)	4,4'-DDE	7.496	8.345	5092095	7757940	1.533	2.569	#
13)	Dieldrin	7.692	8.492	14272433	8195816	3.743	2.366	#
14)	Endrin	7.837	8.700	12909489	16527403	3.956	5.696	#
15)	4,4'-DDD	7.921	8.750	13381873	11127699	5.258	4.751	
16)	Endosulfa...	8.002	8.859	33473288	8447138	11.189	3.157	#
17)	4,4'-DDT	8.132f	8.966	8361255	12980220	3.110	5.205	#
18)	Endrin Al...	8.292	9.081	23426405	27489175	8.898	10.398	
19)	Endosulfa...	8.608	9.282	14242045	12740392	4.976	4.966	
20)	Methoxychlor	8.443	9.462	11306361	30731027	9.370	26.832	#
21)	Endrin Ke...	8.791	9.705f	9140654	7146433	2.645	2.304	
23)	Hexachlor...	3.082	3.677	66915	65283	0.017	0.013	
24)	Hexachlor...	5.686	6.432	20834	35211	0.006	BelowCal	#
25)	Oxychlordane	7.160	7.923	6174300	3491517	1.831	1.092	#
26)	2,4'-DDE	7.231	8.098	2516758	4637356	1.089	2.040	#
27)	trans-Non...	7.399	8.191	7661138	5108856	2.090	1.415	#
28)	2,4'-DDD	7.610	8.492	10401060	8195816	5.370	4.281	
29)	2,4'-DDT	7.792	8.700	17863901	16527403	7.465	7.606	
30)	cis-Nonac...	7.879	8.750	21800253	11127699	5.357	2.792	#
31)	Mirex	8.538	9.705f	35082093	7146433	14.303	3.197	#
32)	Chlordane...	7.312	8.098	3488495	4637356	8.711	10.673	
33)	Chlordane...	7.399f	8.206	7661138	4552878	15.753	12.523	
34)	Chlordane...	7.942f	8.904	15096168	50103773	115.948	421.907	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.399	8.453	7661138	14031789	468.016	476.155	
37)	Toxaphene...	7.692	8.802	14272433	19300126	454.313	480.235	
38)	Toxaphene...	8.002	8.837	33473288	30293001	474.677	468.233	
39)	Toxaphene...	8.244	8.904	32680583	50103773	494.355	498.360	
40)	Toxaphene...	8.470	9.081	26380028	27489175	486.695	479.497	
41)	Toxaphene...	8.538	9.462	35082093	30731027	461.278	465.242	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

A 473.22

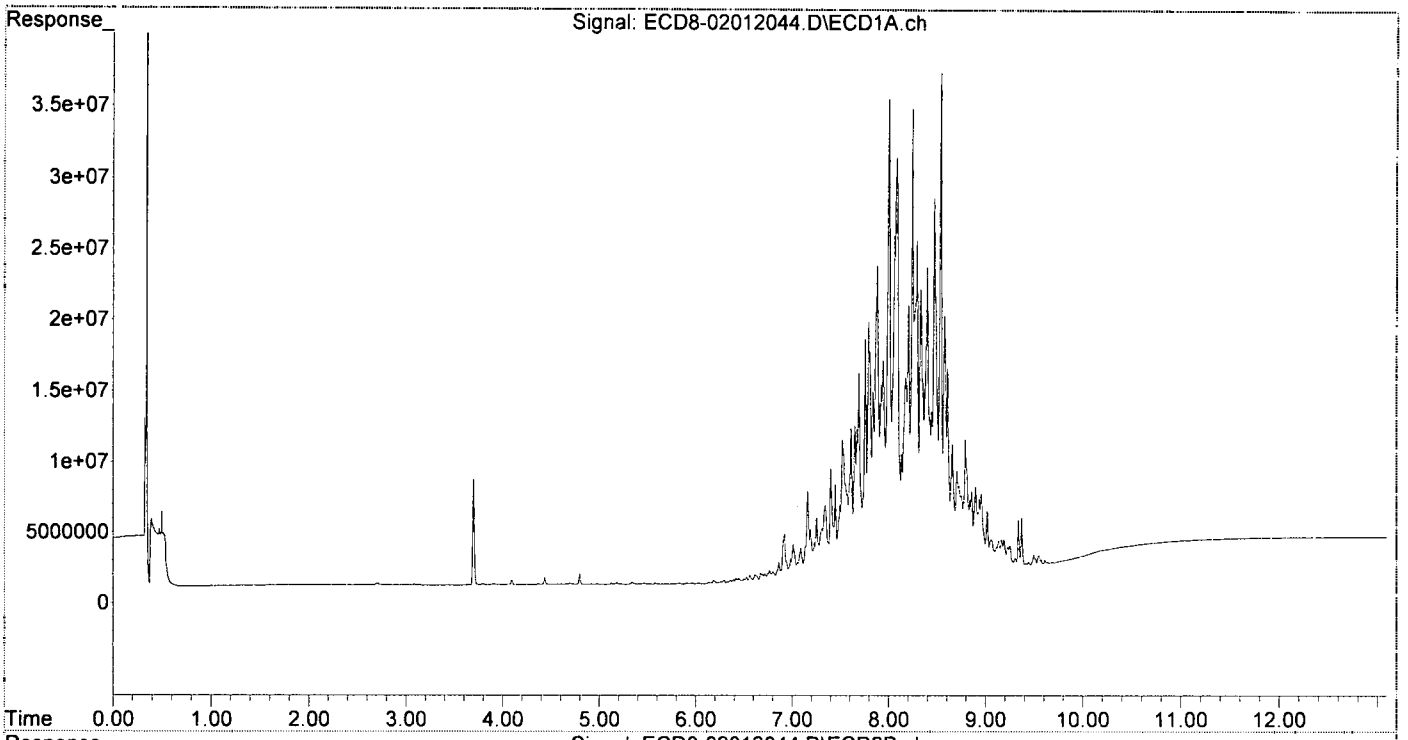
B 477.95

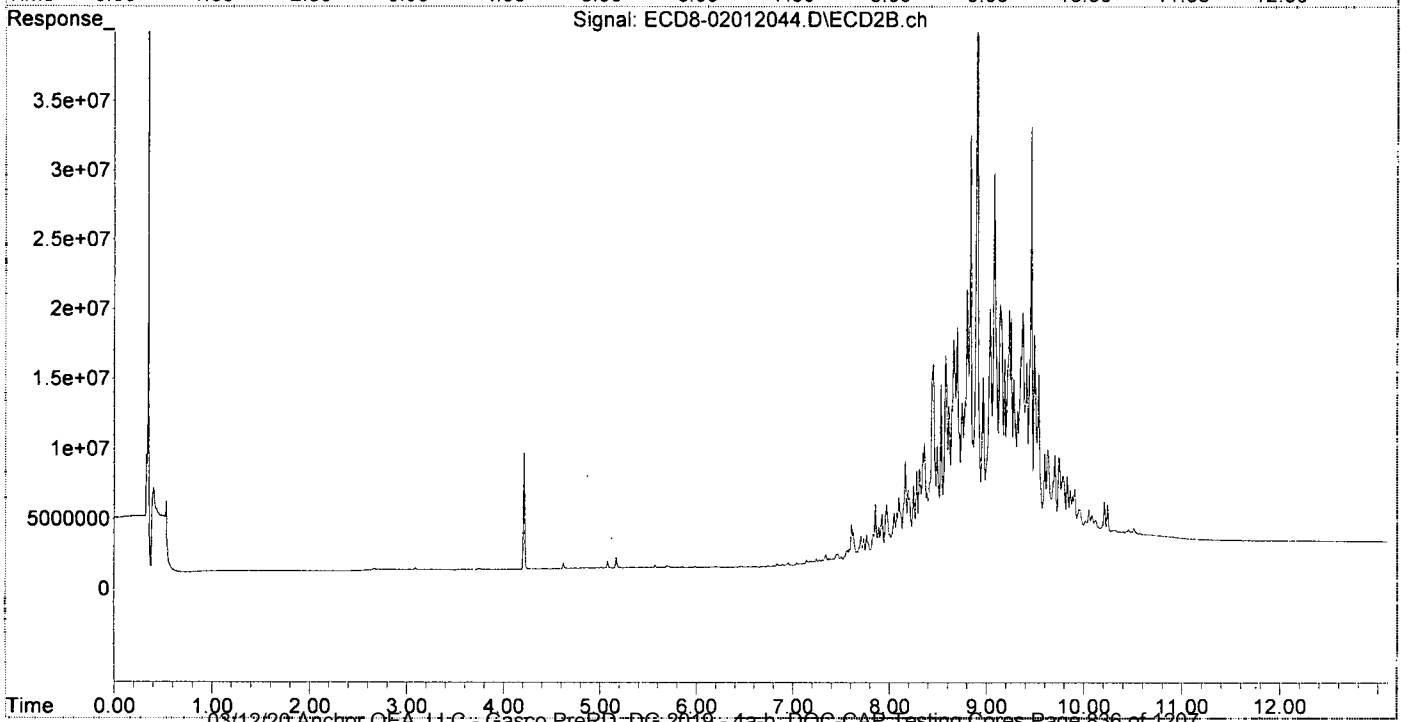
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:22
Operator : MJB
Sample : 0B01012-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

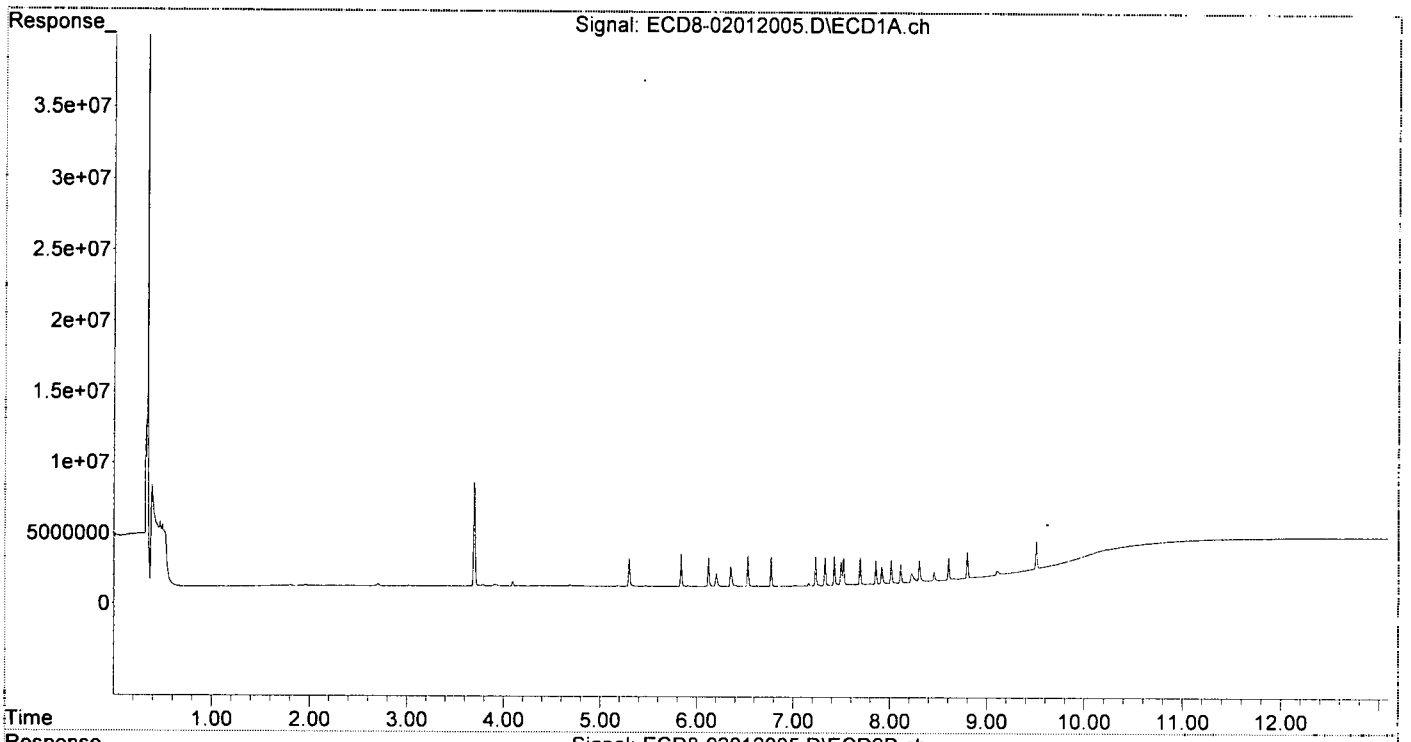
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.982	2010387	1807457	0.575	0.524	
22)	S DCBP (S)	9.507	10.537	2137981	2121210	0.502	0.543	
	Target Compounds							
2)	a-BHC	5.836	6.585	2323532	1906806	0.492	0.522	
3)	g-BHC	6.120	6.903	2098226	1857818	0.504	0.518	
4)	b-BHC	6.201	6.970	943381	871353	0.542	0.502	
5)	Heptachlor	6.529	7.276	2213636	2166906	0.539	0.515	
6)	d-BHC	6.351	7.224	1446613	1525163	0.525	0.533	
7)	Aldrin	6.769	7.541	2117773	1887335	0.524	0.516	
8)	Heptachlo...	7.230	7.979	2037408	1829309	0.552	0.510	
9)	trans-Chl...	7.327	8.119	2006872	1923989	0.534	0.517	
10)	cis-Chlor...	7.424	8.226	2072536	1851957	0.564	0.526	
11)	Endosulfa...	7.519	8.277	1932337	1589681	0.557	0.481	
12)	4,4'-DDE	7.493	8.333	1628951	1346237	0.491	0.520	
13)	Dieldrin	7.691	8.478	1958633	1711724	0.514	0.521	
14)	Endrin	7.854	8.705	1701747	1499119	0.521	0.514	
15)	4,4'-DDD	7.915	8.751	1218671	1119384	0.479	0.522	
16)	Endosulfa...	8.013	8.854	1650694	1442453	0.552	0.516	
17)	4,4'-DDT	8.110	8.975	1351757	1360505	0.503	0.529	
18)	Endrin Al...	8.303	9.091	1534740	1556354	0.583	0.589	
19)	Endosulfa...	8.604	9.282	1548557	1535031	0.541	0.525	
20)	Methoxychlor	8.454	9.456	650344	981544	0.539	0.552	
21)	Endrin Ke...	8.797	9.683	1865728	2135612	0.540	0.534	
23)	Hexachlor...	3.076	3.696	17677	66321	0.005	0.014	#
24)	Hexachlor...	5.680	6.447	15123	21644	0.004	BelowCal	#
25)	Oxychlordane	7.158	7.908	207459	12353	BelowCal	0.004	
26)	2,4'-DDE	7.230	8.119	2037408	1923989	0.881	0.846	
27)	trans-Non...	7.424	8.158f	2072536	113688	0.565	0.031	#
28)	2,4'-DDD	7.613	8.478	26854	1711724	0.014	0.894	#
29)	2,4'-DDT	7.794	8.705	41169	1499119	0.017	0.654	#
30)	cis-Nonac...	7.915f	8.751	1218671	1119384	0.299	0.281	
31)	Mirex	8.550	9.683	18576	2135612	8199.121	0.780	#
32)	Chlordane...	7.327	8.119	2006872	1923989	5.011	4.428	
33)	Chlordane...	7.424	8.226	2072536	1851957	4.262	5.094	
34)	Chlordane...	7.976	8.906	24188	731865	0.186	6.163	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.424f	8.478f	2072536	1711724	126.610	58.086	#
37)	Toxaphene...	7.691	0.000	1958633	0	62.346	N.D.	#
38)	Toxaphene...	8.013	8.854	1650694	1442453	20.294	22.296	
39)	Toxaphene...	8.224	8.906	649309	731865	3.068	3.425	
40)	Toxaphene...	8.454	9.091	650344	1556354	11.998	27.148	#
41)	Toxaphene...	8.550	9.456	18576	981544	0.244	14.860	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

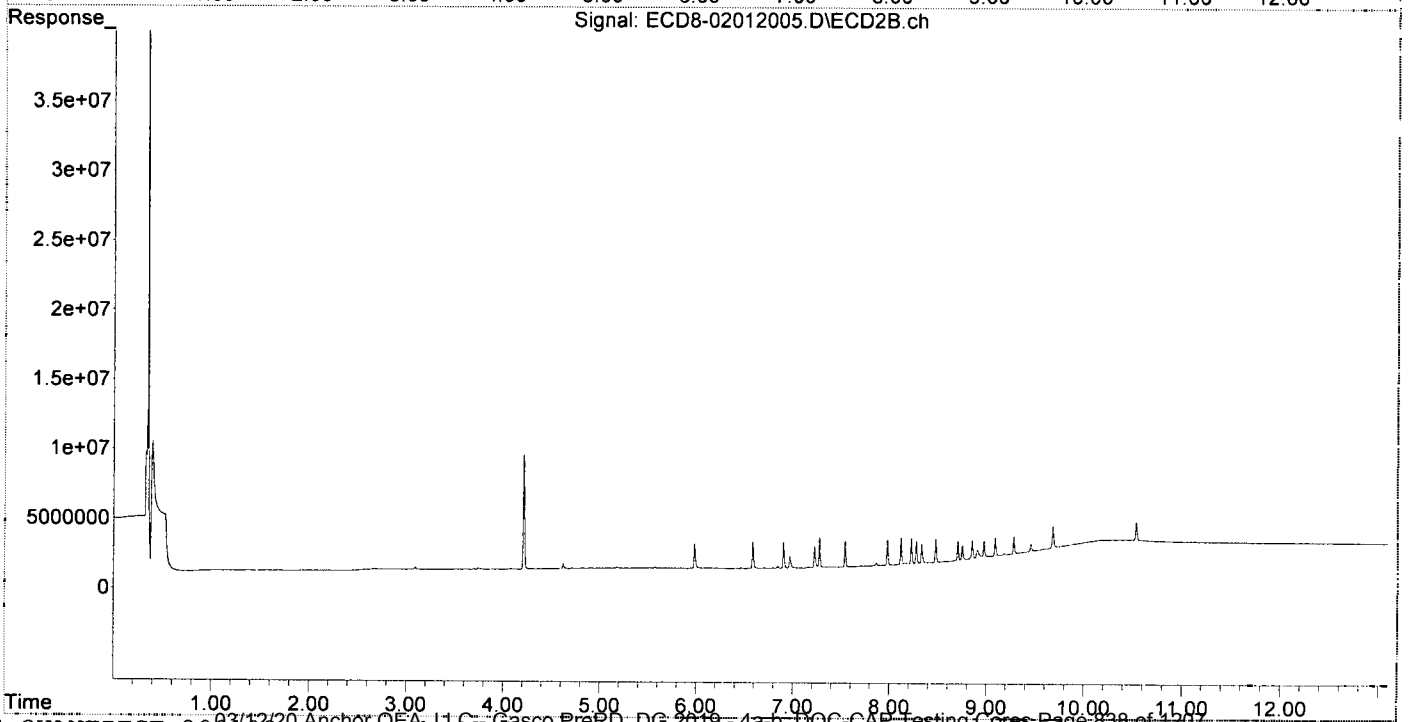
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:46:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/3/20

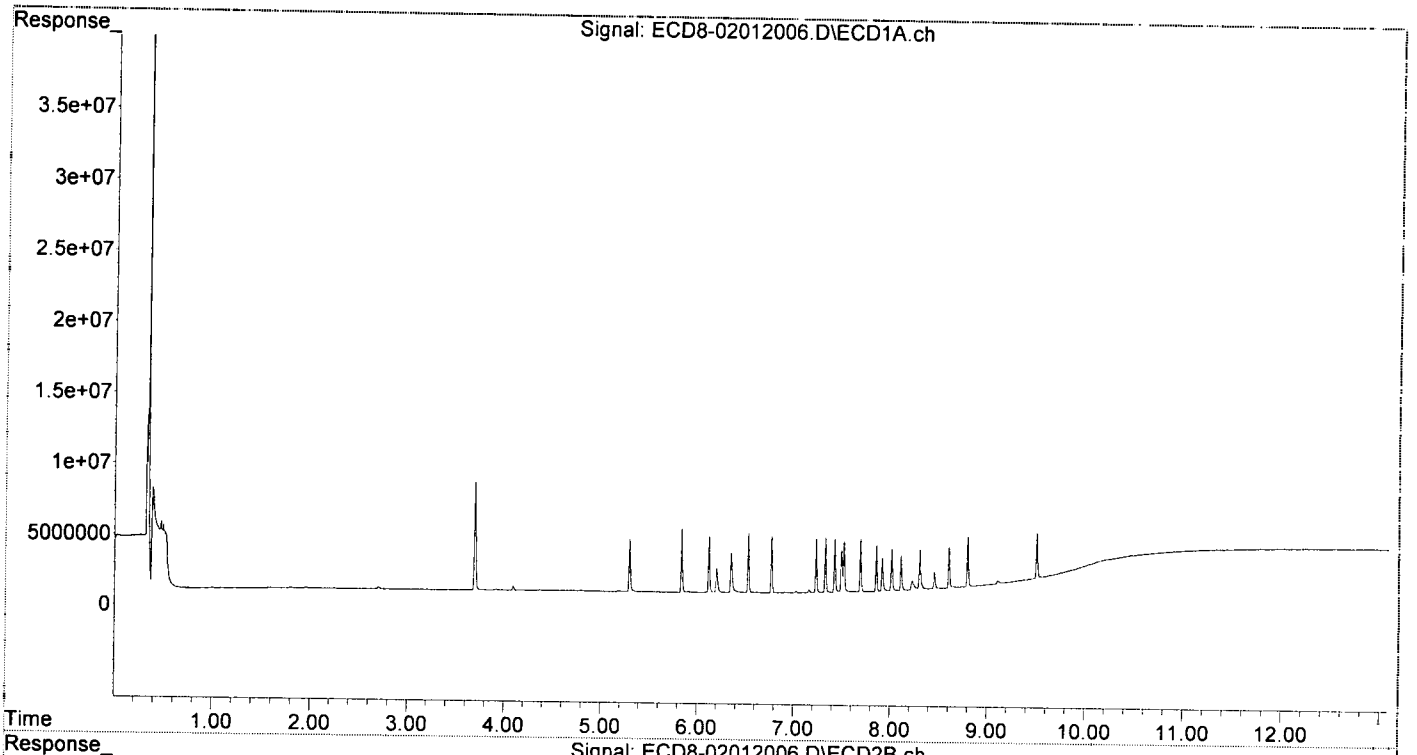
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.982	3713760	3325610	1.062	0.964	
22)	S DCBP (S)	9.507	10.537	3342363	2619998	0.974	0.789	
	Target Compounds							
2)	a-BHC	5.837	6.585	4491787	3754344	0.951	0.954	
3)	g-BHC	6.120	6.902	3995270	3614287	0.960	0.967	
4)	b-BHC	6.200	6.968	1736591	1672509	0.997	0.963	
5)	Heptachlor	6.529	7.275	4223019	4011938	1.028	0.953	
6)	d-BHC	6.351	7.224	2800163	2821743	0.916	0.902	
7)	Aldrin	6.769	7.542	4023063	3540234	0.996	0.957	
8)	Heptachlo...	7.230	7.979	3849968	3563306	1.043	0.993	
9)	trans-Chl...	7.327	8.119	3865919	3473086	1.028	0.934	
10)	cis-Chlor...	7.423	8.226	3812238	3361292	1.038	0.954	
11)	Endosulfa...	7.519	8.277	3593891	3092501	1.036	0.936	
12)	4,4'-DDE	7.493	8.333	2976091	2684993	0.896	0.950	
13)	Dieldrin	7.691	8.478	3771816	3204188	0.989	0.946	
14)	Endrin	7.854	8.705	3307872	2810308	1.014	0.970	
15)	4,4'-DDD	7.914	8.751	2373048	2115078	0.932	0.947	
16)	Endosulfa...	8.013	8.855	3004856	2617481	1.004	0.961	
17)	4,4'-DDT	8.109	8.975	2497592	2317293	0.929	0.918	
18)	Endrin Al...	8.303	9.091	2830842	2604623	1.075	0.985	
19)	Endosulfa...	8.604	9.281	2921925	2490983	1.021	0.907	
20)	Methoxychlor	8.454	9.454	1197106	1213779	0.992	0.771	
21)	Endrin Ke...	8.797	9.683	3540934	3121972	1.024	0.884	
23)	Hexachlor...	3.090	3.700f	34197	52265	0.009	0.011	
24)	Hexachlor...	5.679	6.468f	17136	67766	0.005	BelowCal	#
25)	Oxychlordane	7.158	7.906	229463	16925	BelowCal	0.005	
26)	2,4'-DDE	7.230	8.119	3849968	3473086	1.665	1.528	
27)	trans-Non...	7.423	8.157f	3812238	110192	1.040	0.031	#
28)	2,4'-DDD	7.611	8.478	37705	3204188	0.019	1.674	#
29)	2,4'-DDT	7.797	8.705	35190	2810308	0.015	1.268	#
30)	cis-Nonac...	7.914f	8.751	2373048	2115078	0.583	0.531	
31)	Mirex	8.548	9.683	21941	3121972	8199.120	1.256	#
32)	Chlordane...	7.327	8.119	3865919	3473086	9.653	7.994	
33)	Chlordane...	7.423	8.226	3812238	3361292	7.839	9.246	
34)	Chlordane...	7.972	8.905	48030	675601	0.369	5.689	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.478f	3812238	3204188	232.888	108.731	#
37)	Toxaphene...	7.691	8.832f	3771816	172881	120.063	4.302	#
38)	Toxaphene...	8.013	8.832	3004856	172881	39.542	2.672	#
39)	Toxaphene...	8.223f	8.905	667811	675601	3.353	2.840	
40)	Toxaphene...	8.454	9.091	1197106	2604623	22.086	45.433	#
41)	Toxaphene...	8.548	9.454	21941	1213779	0.288	18.376	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

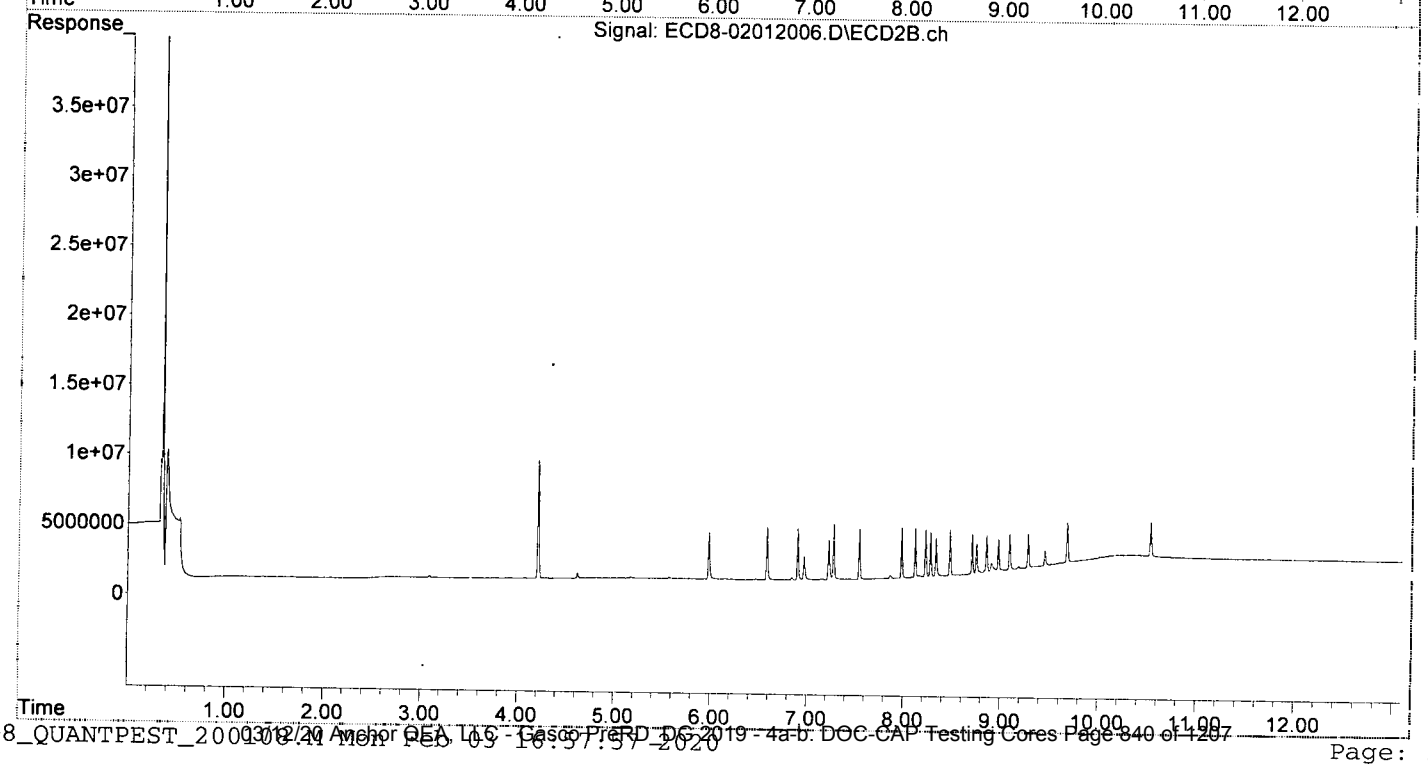
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:46:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:47:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/4/20

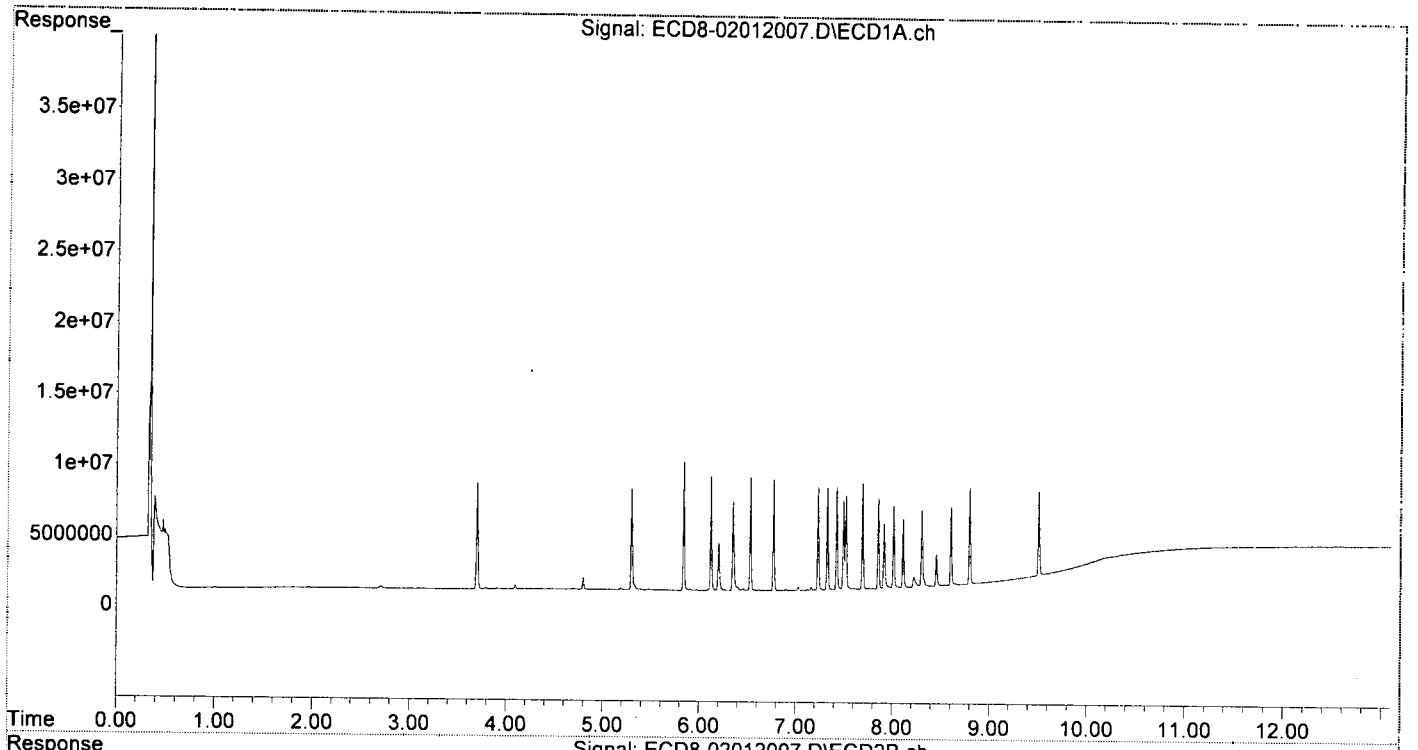
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.982	7209311	6464924	2.062	1.874	
22)	S DCBP (S)	9.506	10.536	6150705	5371510	2.072	2.149	
	Target Compounds							
2)	a-BHC	5.837	6.585	9150524	7591226	1.937	1.848	
3)	g-BHC	6.119	6.902	8103069	7144289	1.946	1.868	
4)	b-BHC	6.199	6.967	3435299	3394908	1.972	1.956	
5)	Heptachlor	6.529	7.275	8104217	7612959	1.972	1.808	
6)	d-BHC	6.348	7.222	6356662	6360084	1.943	1.907	
7)	Aldrin	6.768	7.541	7878680	7212786	1.950	1.935	
8)	Heptachlo...	7.230	7.979	7310938	6383239	1.980	1.778	
9)	trans-Chl...	7.326	8.118	7233767	6824804	1.924	1.835	
10)	cis-Chlor...	7.423	8.226	7290278	6414031	1.985	1.821	
11)	Endosulfa...	7.518	8.277	6684329	6087483	1.927	1.842	
12)	4,4'-DDE	7.492	8.332	6364080	5670683	1.916	1.904	
13)	Dieldrin	7.691	8.477	7527776	6556953	1.974	1.900	
14)	Endrin	7.854	8.705	6440400	5547721	1.973	1.919	
15)	4,4'-DDD	7.912	8.750	4683505	4350712	1.840	1.898	
16)	Endosulfa...	8.012	8.854	5851117	5197583	1.956	1.935	
17)	4,4'-DDT	8.109	8.975	4907038	4735251	1.825	1.899	
18)	Endrin Al...	8.302	9.091	5465292	5226313	2.076	1.977	
19)	Endosulfa...	8.604	9.281	5585397	5212773	1.951	1.991	
20)	Methoxychlor	8.453	9.455	2268598	2619150	1.880	2.091	
21)	Endrin Ke...	8.797	9.682	6824708	6091766	1.974	1.933	
23)	Hexachlor...	3.089	3.700f	46078	15667	0.012	0.003	#
24)	Hexachlor...	5.679	6.464	28017	76831	0.008	BelowCal	#
25)	Oxychlordane	7.157	7.909	222150	14464	BelowCal	0.005	
26)	2,4'-DDE	7.230	8.118	7310938	6824804	3.162	3.003	
27)	trans-Non...	7.423	8.173	7290278	115022	1.989	0.032	#
28)	2,4'-DDD	7.612	8.477	46139	6556953	0.024	3.425	#
29)	2,4'-DDT	7.796	8.705	45942	5547721	0.019	2.545	#
30)	cis-Nonac...	7.912f	8.750	4683505	4350712	1.151	1.092	
31)	Mirex	8.543	9.682	39979	6091766	8199.112	2.689	#
32)	Chlordane...	7.326	8.118	7233767	6824804	18.063	15.708	
33)	Chlordane...	7.423	8.226	7290278	6414031	14.990	17.643	
34)	Chlordane...	0.000	8.904	0	888424	N.D.	7.481	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.477f	7290278	6556953	445.360	222.504	#
37)	Toxaphene...	7.691	0.000	7527776	0	239.620	N.D.	#
38)	Toxaphene...	8.012	8.854	5851117	5197583	80.025	80.338	
39)	Toxaphene...	8.221f	8.904	753222	888424	4.670	5.052	
40)	Toxaphene...	8.453	9.091	2268598	5226313	41.854	91.163	#
41)	Toxaphene...	8.543	9.455	39979	2619150	0.526	39.652	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

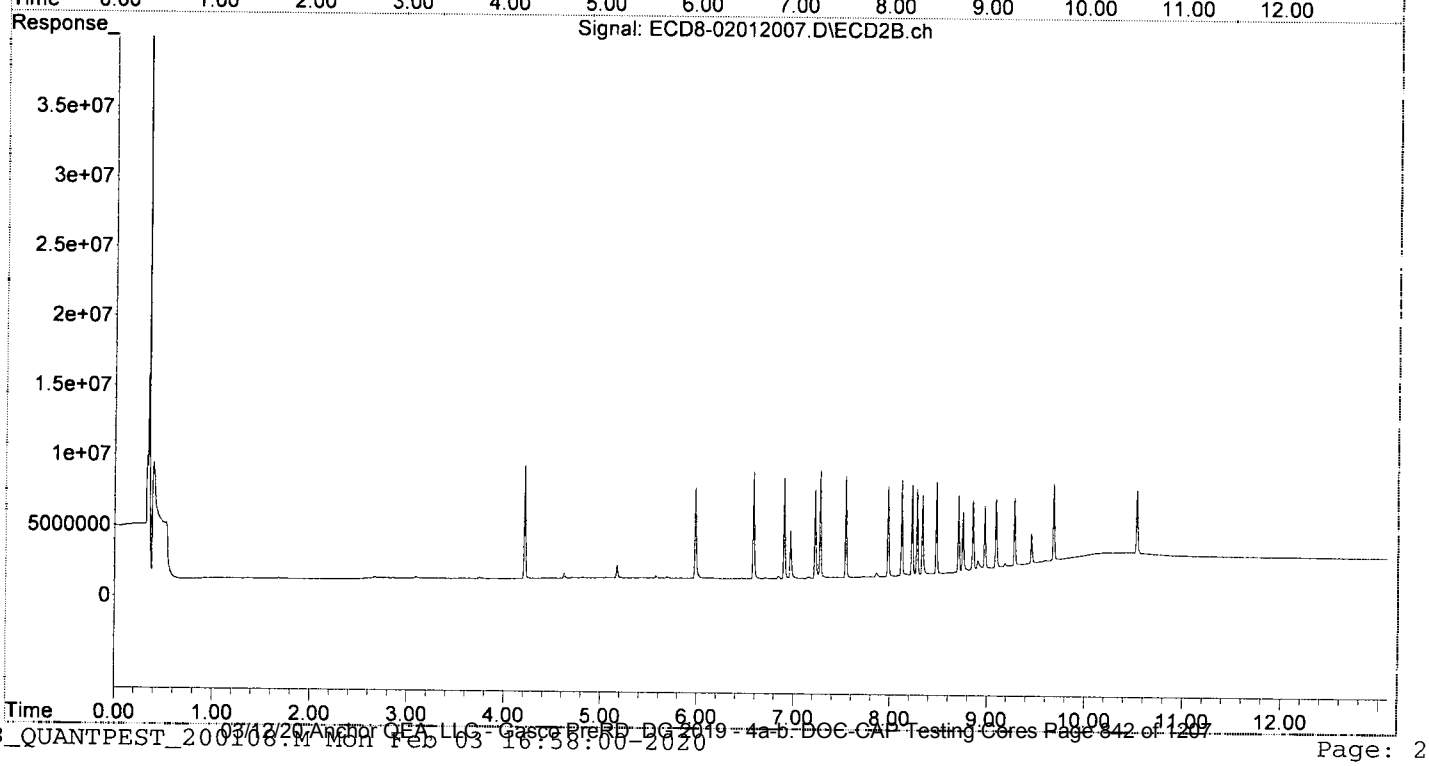
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:47:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

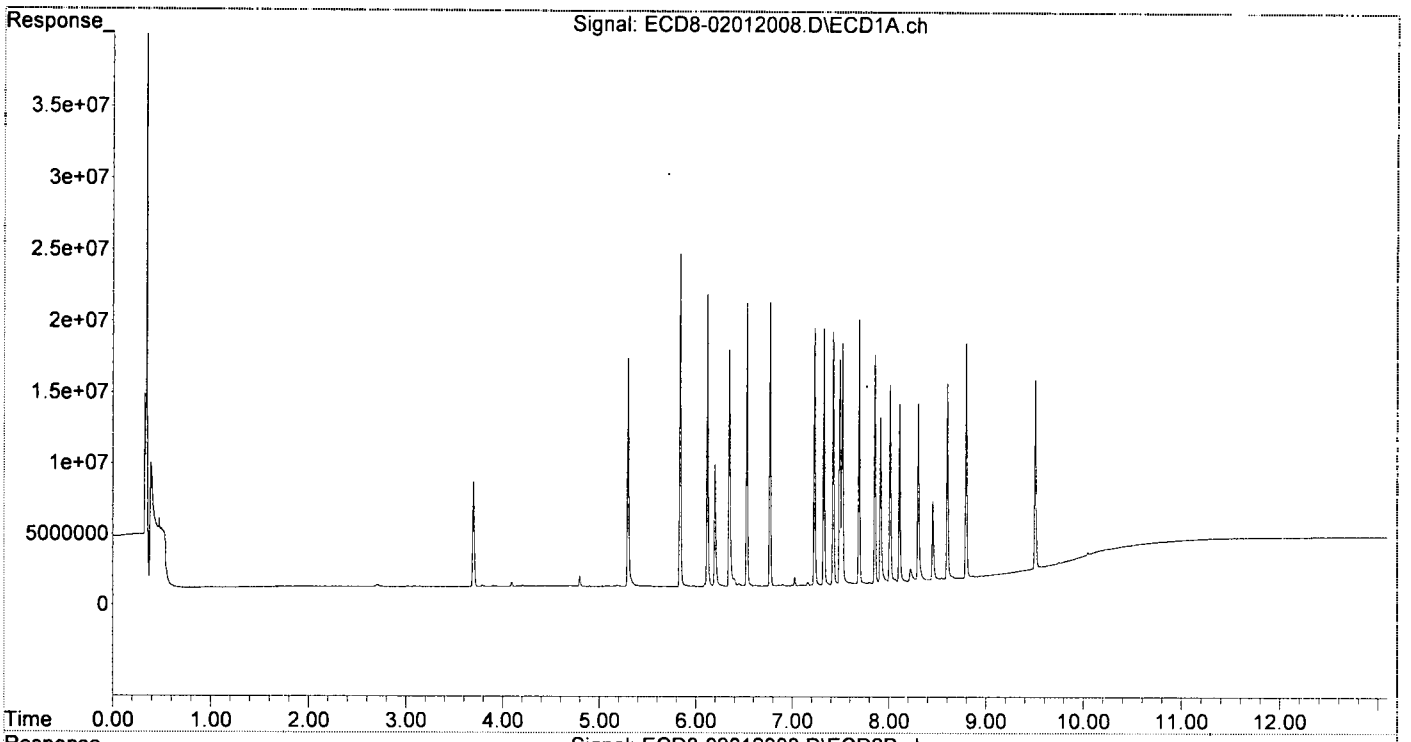
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.981	16081203	15031272	4.600	4.357	
22)	S DCBP (S)	9.507	10.536	13550213	11242637	4.961	5.037	
	Target Compounds							
2)	a-BHC	5.837	6.585	23466079	20250518	4.967	4.778	
3)	g-BHC	6.119	6.902	20617843	18903687	4.952	4.850	
4)	b-BHC	6.198	6.967	8638547	7798279	4.960	4.492	
5)	Heptachlor	6.529	7.275	20002736	19371564	4.867	4.600	
6)	d-BHC	6.347	7.222	16718254	16286148	4.918	4.704	
7)	Aldrin	6.769	7.542	20021477	18260292	4.955	4.858	
8)	Heptachlo...	7.230	7.979	18211245	16663788	4.932	4.642	
9)	trans-Chl...	7.327	8.118	18164041	17064405	4.830	4.589	
10)	cis-Chlor...	7.423	8.226	17894373	16061241	4.873	4.559	
11)	Endosulfa...	7.519	8.277	17033099	14978724	4.910	4.532	
12)	4,4'-DDE	7.491	8.333	15902445	14859572	4.789	4.819	
13)	Dieldrin	7.691	8.478	18752761	16896160	4.918	4.826	
14)	Endrin	7.854	8.706	16153756	13876087	4.950	4.788	
15)	4,4'-DDD	7.913	8.749	11737231	11254024	4.612	4.804	
16)	Endosulfa...	8.012	8.854	14001650	12686668	4.680	4.743	
17)	4,4'-DDT	8.109	8.975	12632646	11635054	4.699	4.669	
18)	Endrin Al...	8.303	9.090	12590069	11838674	4.782	4.478	
19)	Endosulfa...	8.603	9.281	13843885	12518228	4.837	4.879	
20)	Methoxychlor	8.453	9.454	5565381	5652133	4.612	4.909	
21)	Endrin Ke...	8.797	9.683	16623046	14402455	4.809	4.847	
23)	Hexachlor...	3.087	3.682	36876	15974	0.009	0.003	#
24)	Hexachlor...	5.682	6.466	37875	80608	0.011	BelowCal	#
25)	Oxychlordane	7.158	7.910	243167	27947	BelowCal	0.009	
26)	2,4'-DDE	7.230	8.118	18211245	17064405	7.877	7.507	
27)	trans-Non...	7.423	8.178	17894373	182055	4.881	0.050	#
28)	2,4'-DDD	7.611	8.478	87247	16896160	0.045	8.826	#
29)	2,4'-DDT	7.796	8.706	107331	13876087	0.045	6.393	#
30)	cis-Nonac...	7.913f	8.749	11737231	11254024	2.884	2.824	
31)	Mirex	8.545	9.683	90475	14402455	8199.092	6.686	#
32)	Chlordane...	7.327	8.118	18164041	17064405	45.356	39.276	
33)	Chlordane...	7.423	8.226	17894373	16061241	36.795	44.178	
34)	Chlordane...	0.000	8.904	0	956307	N.D.	8.053	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.394	8.478f	19911	16896160	1.216	573.354	#
37)	Toxaphene...	7.691	0.000	18752761	0	596.928	N.D.	#
38)	Toxaphene...	8.012	8.854	14001650	12686668	196.140	196.095	
39)	Toxaphene...	8.224f	8.904	868825	956307	6.452	5.758	
40)	Toxaphene...	8.453	9.090	5565381	11838674	102.678	206.504	#
41)	Toxaphene...	8.545	9.454	90475	5652133	1.190	85.569	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

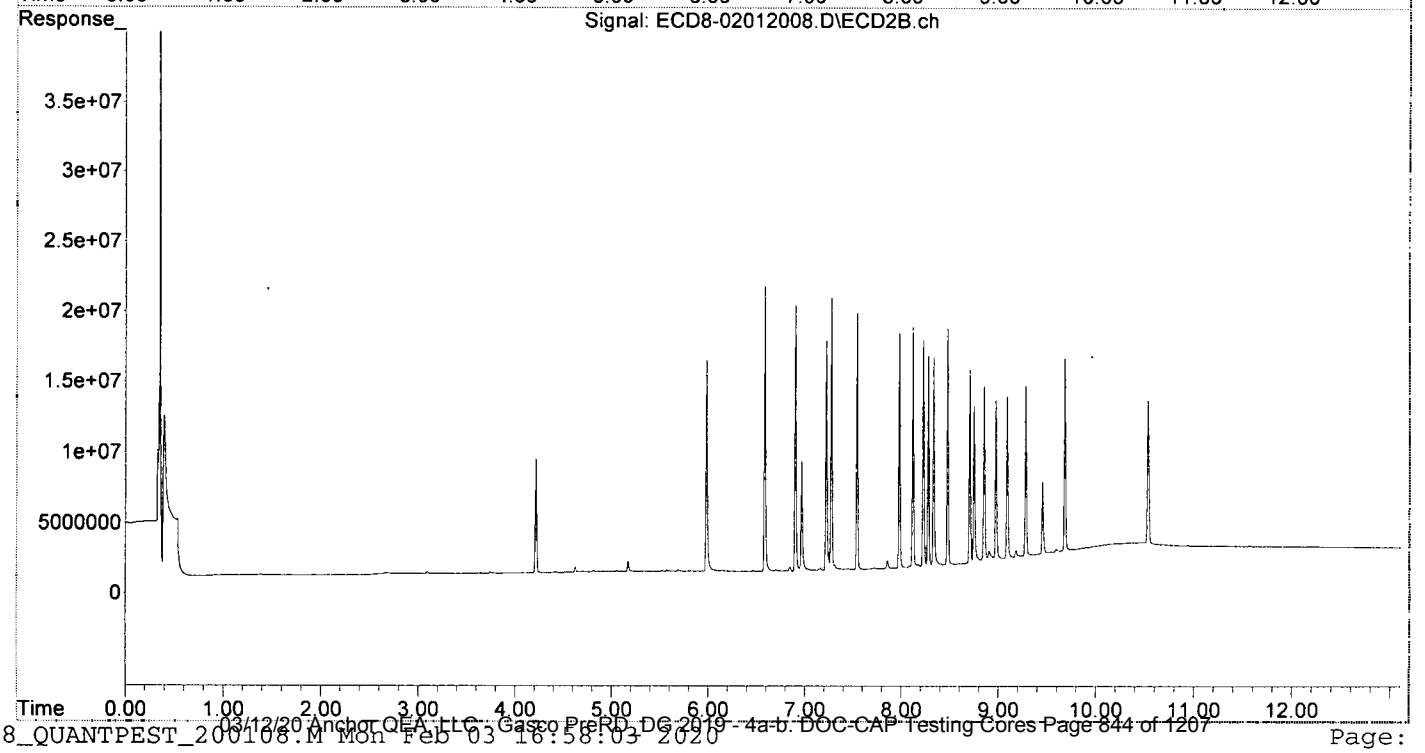
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

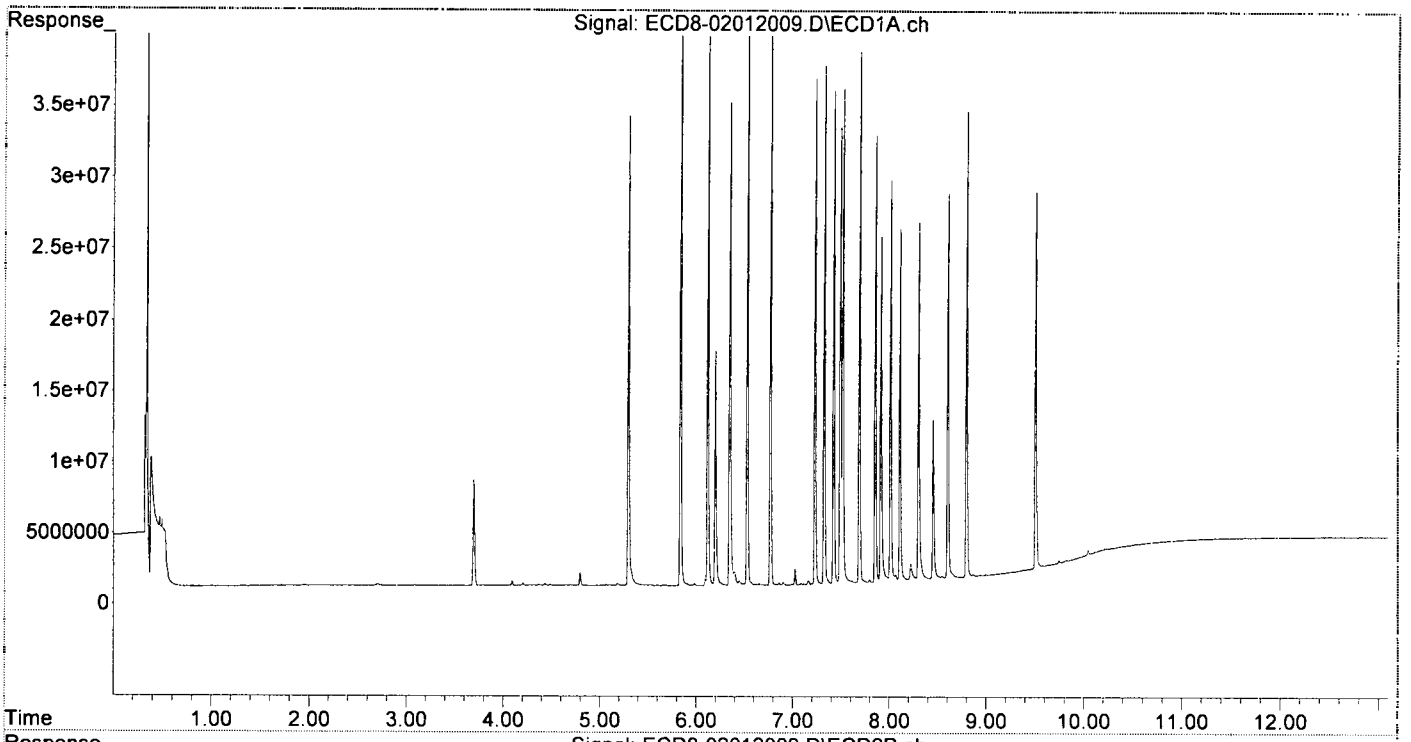
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	33031495	31880995	9.448	9.242	
22)	S DCBP (S)	9.507	10.537	26605868	21641632	10.038	10.109	
	Target Compounds							
2)	a-BHC	5.836	6.585	46556069	43486995	9.854	10.072	
3)	g-BHC	6.119	6.902	40429962	38516992	9.711	9.763	
4)	b-BHC	6.198	6.967	16571546	16056619	9.515	9.249	
5)	Heptachlor	6.529	7.275	39900092	38743493	9.708	9.201	
6)	d-BHC	6.346	7.221	33972136	34556711	9.824	9.770	
7)	Aldrin	6.769	7.542	39553332	36952424	9.789	9.749	
8)	Heptachlo...	7.229	7.979	35561831	33689906	9.630	9.385	
9)	trans-Chl...	7.325	8.119	36451101	34945337	9.693	9.398	
10)	cis-Chlor...	7.423	8.226	34569322	32046693	9.414	9.097	
11)	Endosulfa...	7.518	8.277	34748038	30647883	10.018	9.273	
12)	4,4'-DDE	7.491	8.332	32072763	30195241	9.658	9.610	
13)	Dieldrin	7.691	8.478	37298305	34982484	9.781	9.885	
14)	Endrin	7.854	8.706	31349018	29160503	9.606	9.986	
15)	4,4'-DDD	7.912	8.749	24259195	22757929	9.532	9.551	
16)	Endosulfa...	8.012	8.854	28189352	25937677	9.423	9.643	
17)	4,4'-DDT	8.108	8.975	24692282	25132611	9.185	9.980	
18)	Endrin Al...	8.302	9.090	25111118	23622312	9.538	8.935	
19)	Endosulfa...	8.604	9.282	27042784	25036220	9.448	9.760	
20)	Methoxychlor	8.453	9.455	11230884	10865325	9.308	9.661	
21)	Endrin Ke...	8.797	9.683	32676144	28830661	9.454	9.834	
23)	Hexachlor...	3.088	3.679	39867	14675	0.010	0.003	#
24)	Hexachlor...	5.679	6.464	69319	75162	0.021	BelowCal	#
25)	Oxychlordane	7.163	7.907	264637	34565	BelowCal	0.011	
26)	2,4'-DDE	7.229	8.119	35561831	34945337	15.381	15.374	
27)	trans-Non...	7.423	8.175	34569322	268385	9.429	0.074	#
28)	2,4'-DDD	7.607	8.478	166784	34982484	0.086	18.274	#
29)	2,4'-DDT	7.795	8.706	198510	29160503	0.083	13.315	#
30)	cis-Nonac...	7.912f	8.749	24259195	22757929	5.961	5.711	
31)	Mirex	8.548	9.683	148113	28830661	8199.068	13.586	#
32)	Chlordane...	7.325	8.119	36451101	34945337	91.019	80.431	
33)	Chlordane...	7.423	8.226	34569322	32046693	71.082	88.148	
34)	Chlordane...	0.000	8.904	0	1082594	N.D.	9.116	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.478f	34569322	34982484	2111.825	1187.096	#
37)	Toxaphene...	7.691	0.000	37298305	0	1187.261	N.D.	#
38)	Toxaphene...	8.012	8.854	28189352	25937677	398.932	400.914	
39)	Toxaphene...	8.223f	8.904	1161363	1082594	10.961	7.070	#
40)	Toxaphene...	8.453	9.090	11230884	23622312	207.203	412.047	#
41)	Toxaphene...	8.548	9.455	148113	10865325	1.947	164.492	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

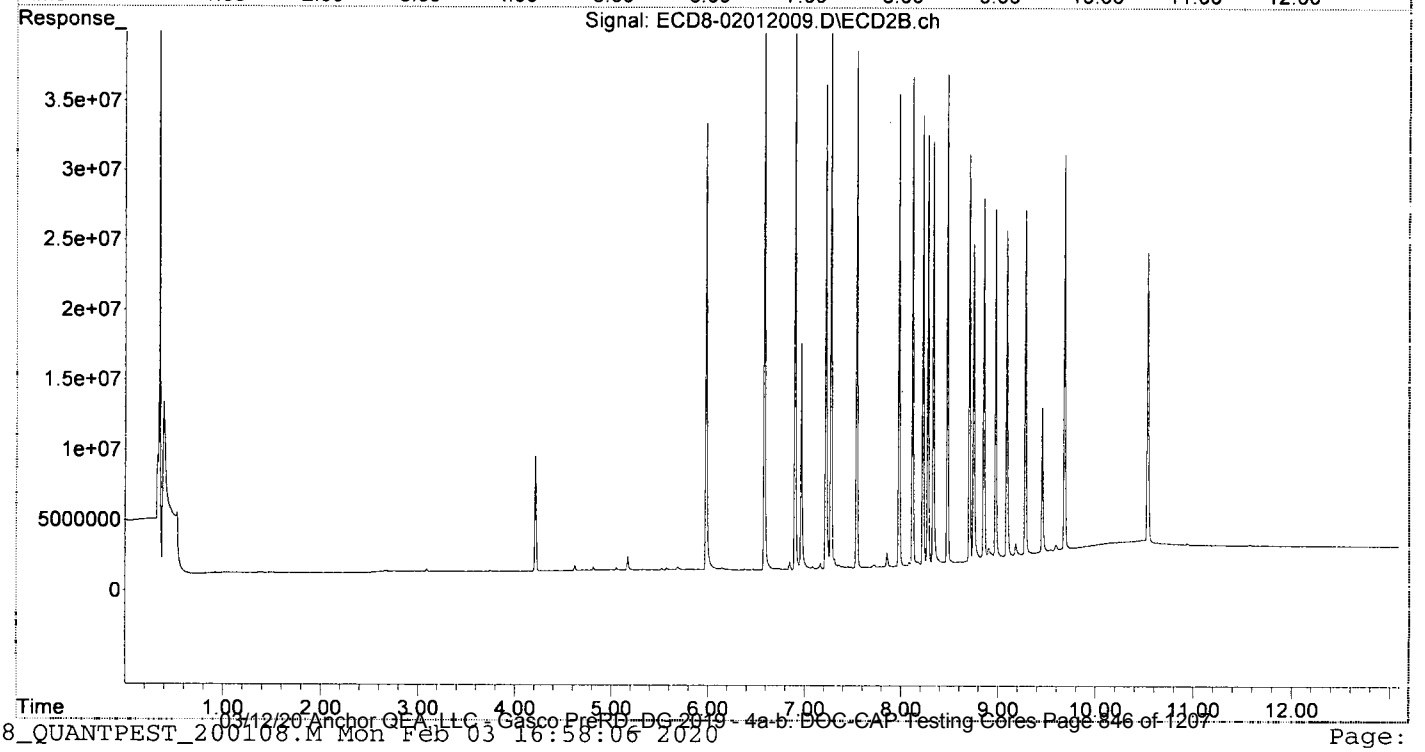
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

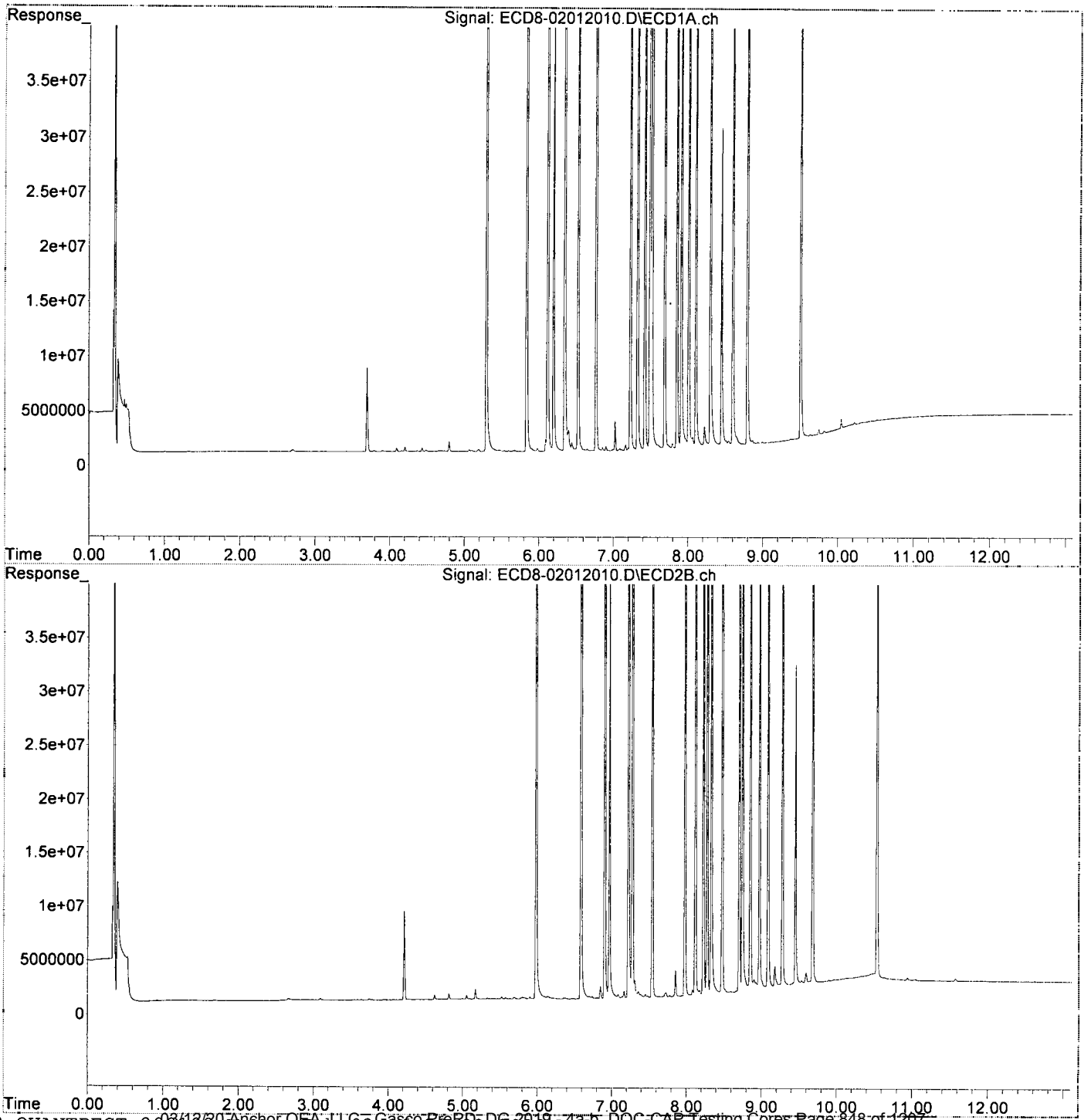
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	85829808	85149324	24.550	24.684	
22)	S DCBP (S)	9.507	10.537	66452642	54017910	25.390	25.564	
	Target Compounds							
2)	a-BHC	5.836	6.583	121.6E6	119.2E6	25.743	26.638	
3)	g-BHC	6.118	6.901	105.7E6	107.9E6	25.393	26.571	
4)	b-BHC	6.197	6.966	43268809	42826341	24.844	24.669	
5)	Heptachlor	6.529	7.274	103.8E6	104.5E6	25.247	24.811	
6)	d-BHC	6.345	7.220	93700875	100.9E6	26.377	27.360	
7)	Aldrin	6.768	7.541	101.9E6	103.3E6	25.224	26.577	
8)	Heptachlo...	7.229	7.978	90603826	90693091	24.535	25.265	
9)	trans-Chl...	7.325	8.118	92344635	94107374	24.556	25.309	
10)	cis-Chlor...	7.422	8.225	91013817	90991019	24.784	25.830	
11)	Endosulfa...	7.518	8.277	85444422	85653357	24.633	25.916	
12)	4,4'-DDE	7.490	8.331	82679641	86764148	24.898	26.554	
13)	Dieldrin	7.690	8.477	95868803	95883928	25.140	26.411	
14)	Endrin	7.854	8.706	82858624	79399830	25.388	26.501	
15)	4,4'-DDD	7.911	8.749	63377806	65177226	24.903	26.133	
16)	Endosulfa...	8.011	8.853	73342261	73030196	24.516	26.411	
17)	4,4'-DDT	8.108	8.975	68097447	70533268	25.332	26.908	
18)	Endrin Al...	8.302	9.089	61776811	60959956	23.466	23.058	
19)	Endosulfa...	8.603	9.281	70013419	70158024	24.462	26.695	
20)	Methoxychlor	8.452	9.454	28980569	30163827	24.018	26.360	
21)	Endrin Ke...	8.797	9.683	85585307	79449385	24.761	26.668	
23)	Hexachlor...	3.076	3.678	12851	13752	0.003	0.003	
24)	Hexachlor...	5.680	6.465	126605	71517	0.038	BelowCal	#
25)	Oxychlordane	7.165	7.903	529717	44577	BelowCal	0.014	
26)	2,4'-DDE	7.229	8.118	90603826	94107374	39.187	41.402	
27)	trans-Non...	7.422	8.176	91013817	455515	24.825	0.126	#
28)	2,4'-DDD	7.607	8.477	330367	95883928	0.171	50.089	#
29)	2,4'-DDT	7.795	8.706	433808	79399830	0.181	34.931	#
30)	cis-Nonac...	7.911f	8.749	63377806	65177226	15.574	16.355	
31)	Mirex	8.546	9.683	370318	79449385	8198.976	37.402	#
32)	Chlordane...	7.325	8.118	92344635	94107374	230.585	216.600	
33)	Chlordane...	7.422	8.225	91013817	90991019	187.145	250.281	#
34)	Chlordane...	7.972	8.903	775608	1271614	5.957	10.708	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.477f	91013817	95883928	5559.995	3253.726	#
37)	Toxaphene...	7.690	0.000	95868803	0	3051.647	N.D.	#
38)	Toxaphene...	8.011	8.853	73342261	73030196	1050.109	1128.814	
39)	Toxaphene...	8.223f	8.903	1815696	1271614	21.046	9.033	#
40)	Toxaphene...	8.452	9.089	28980569	60959956	534.674	1063.332	#
41)	Toxaphene...	8.546	9.454	370318	30163827	4.869	456.655	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

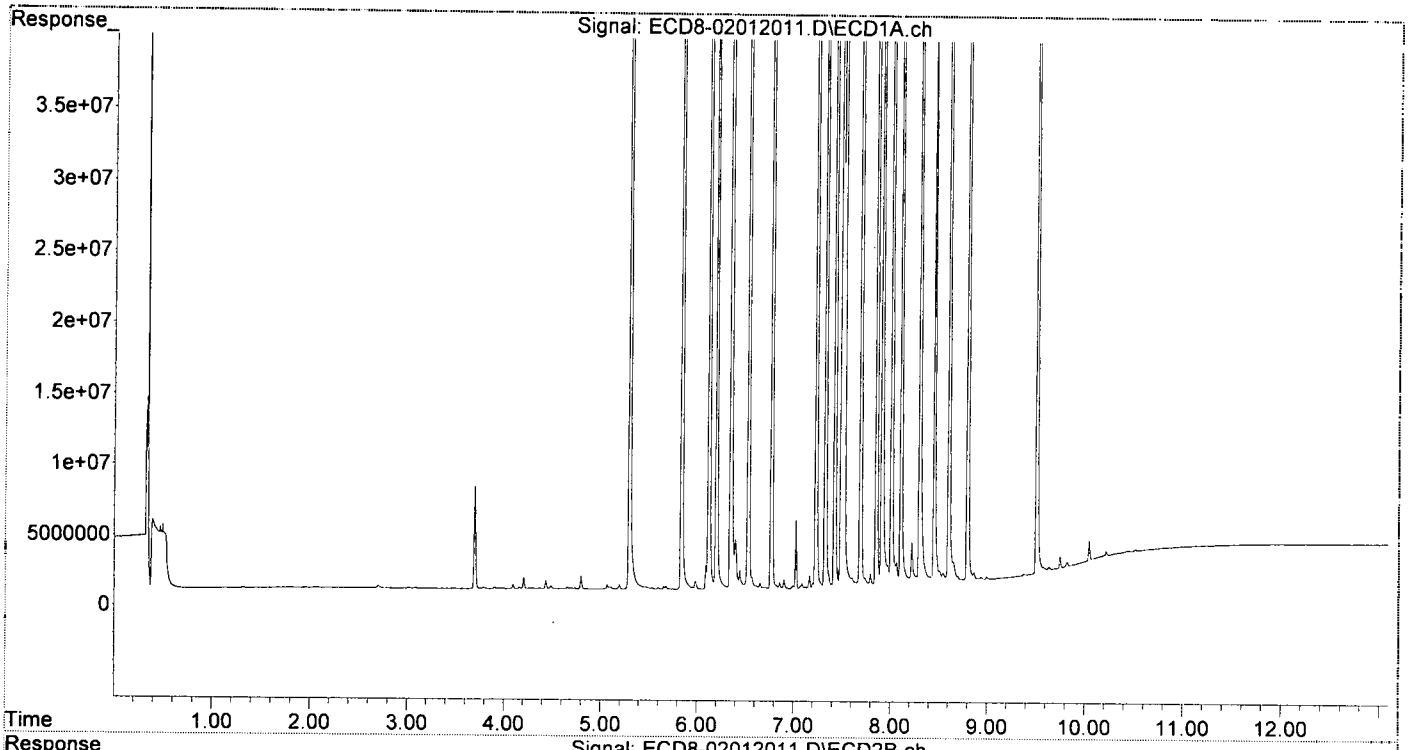
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.297	5.981	160.2E6	168.3E6	45.821	48.785	
22) S	DCBP (S)	9.507	10.537	123.4E6	103.8E6	46.953	48.422	
	Target Compounds							
2)	a-BHC	5.837	6.585	224.9E6	233.3E6	47.596	49.927	
3)	g-BHC	6.119	6.902	203.3E6	211.8E6	48.823	50.337	
4)	b-BHC	6.197	6.966	81866401	85296235	47.005	49.132	
5)	Heptachlor	6.529	7.276	192.3E6	210.9E6	46.784	50.081	
6)	d-BHC	6.346	7.221	182.4E6	192.9E6	49.846	49.955	
7)	Aldrin	6.769	7.542	195.5E6	195.8E6	48.375	48.819	
8)	Heptachlo...	7.230	7.979	168.2E6	178.9E6	45.535	49.840	
9)	trans-Chl...	7.326	8.119	181.3E6	181.2E6	48.222	48.738	
10)	cis-Chlor...	7.423	8.226	167.4E6	173.0E6	45.590	49.120	
11)	Endosulfa...	7.518	8.277	163.9E6	167.4E6	47.263	50.662	
12)	4,4'-DDE	7.490	8.332	168.0E6	175.2E6	50.591	51.112	
13)	Dieldrin	7.691	8.478	179.5E6	192.1E6	47.067	51.122	
14)	Endrin	7.854	8.706	155.0E6	154.0E6	47.508	49.608	
15)	4,4'-DDD	7.910	8.748	125.3E6	136.5E6	49.237	51.398	
16)	Endosulfa...	8.011	8.854	141.9E6	146.2E6	47.418	50.735	
17)	4,4'-DDT	8.109	8.975	134.8E6	138.4E6	50.144	50.032	
18)	Endrin Al...	8.302	9.090	118.6E6	123.5E6	45.036	46.706	
19)	Endosulfa...	8.603	9.281	133.9E6	135.1E6	46.769	49.502	
20)	Methoxychlor	8.452	9.453	56743855	60278479	47.026	50.142	
21)	Endrin Ke...	8.797	9.682	159.8E6	156.7E6	46.229	50.674	
23)	Hexachlor...	3.088	3.679	34907	16213	0.009	0.003	#
24)	Hexachlor...	5.680	6.465	244410	68152	0.073	BelowCal	#
25)	Oxychlordane	7.167	7.887	881658	95004	0.107	0.030	#
26)	2,4'-DDE	7.230	8.119	168.2E6	181.2E6	72.728	79.730	
27)	trans-Non...	7.423	8.176	167.4E6	698128	45.666	0.193	#
28)	2,4'-DDD	7.607	8.478	575225	192.1E6	0.297	100.369	#
29)	2,4'-DDT	7.795	8.706	805485	154.0E6	0.337	64.391	#
30)	cis-Nonac...	7.910f	8.748	125.3E6	136.5E6	30.792	34.245	
31)	Mirex	8.544	9.682	582639	156.7E6	0.034	72.674	#
32)	Chlordane...	7.326	8.119	181.3E6	181.2E6	452.809	417.118	
33)	Chlordane...	7.423	8.226	167.4E6	173.0E6	344.253	475.953	#
34)	Chlordane...	7.973	8.904	1354346	1354651	10.402	11.407	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.423f	8.478f	167.4E6	192.1E6	10227.614	6519.912	#
37)	Toxaphene...	7.691	0.000	179.5E6	0	5713.243	N.D.	#
38)	Toxaphene...	8.011	8.854	141.9E6	146.2E6	2055.651	2259.027	
39)	Toxaphene...	8.222f	8.904	2868899	1354651	37.273	9.896	#
40)	Toxaphene...	8.452	9.090	56743855	123.5E6	1046.889	2153.826	#
41)	Toxaphene...	8.544	9.453	582639	60278479	7.661	912.566	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

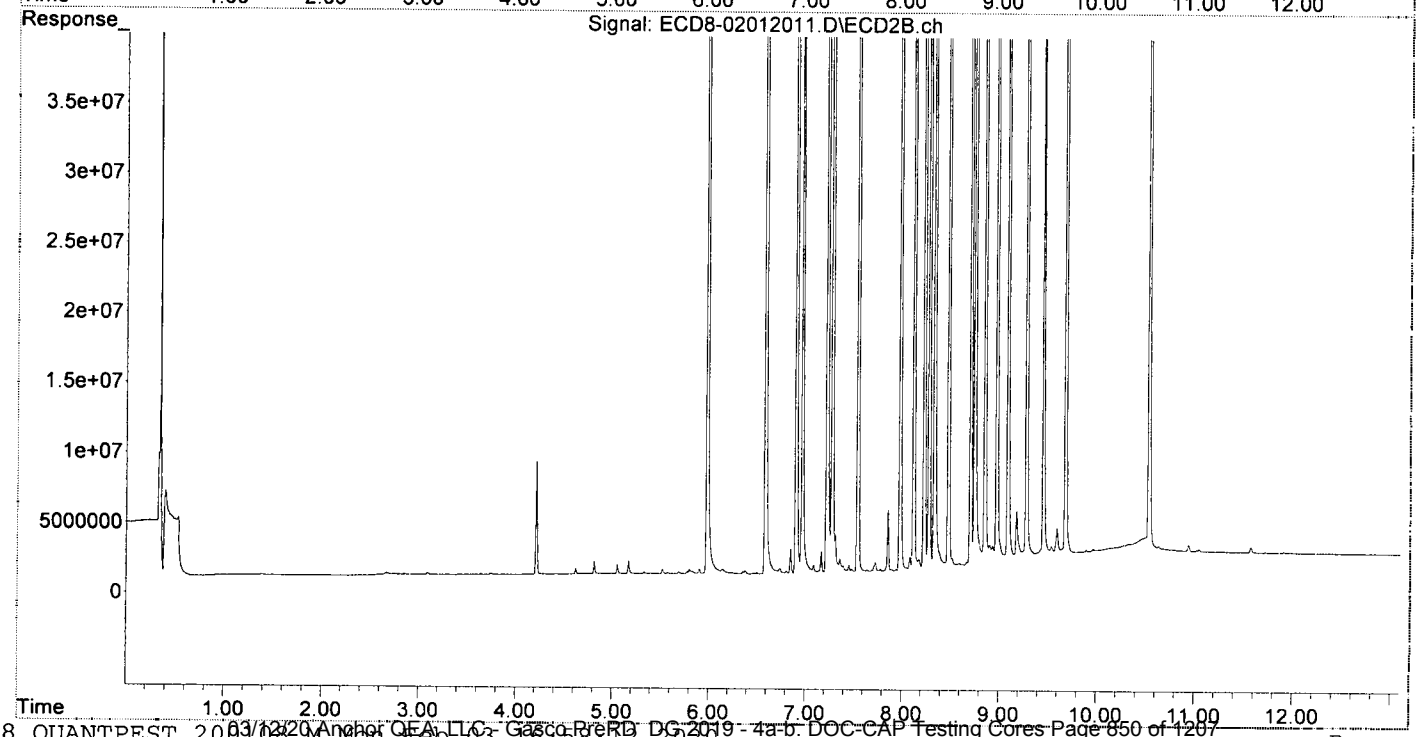
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

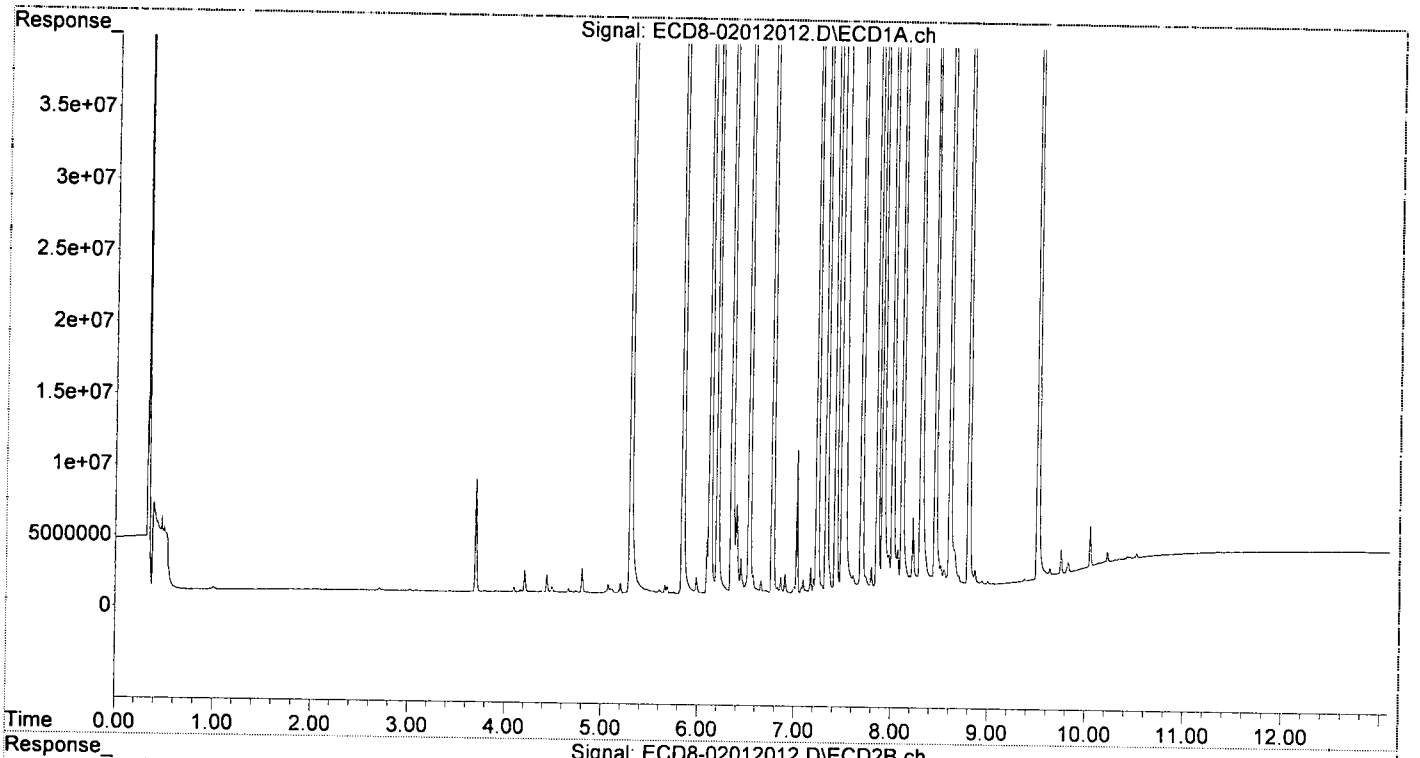
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.982	355.4E6	386.4E6	101.662	112.028	
22)	S DCBP (S)	9.507	10.537	280.1E6	240.0E6	104.273	106.329	
	Target Compounds							
2)	a-BHC	5.837	6.585	509.4E6	553.7E6	107.818	107.465	
3)	g-BHC	6.120	6.902	435.9E6	491.3E6	104.706	107.679	
4)	b-BHC	6.197	6.966	185.8E6	196.8E6	106.682	113.366	
5)	Heptachlor	6.529	7.276	416.3E6	477.0E6	101.286	113.274	
6)	d-BHC	6.345	7.221	419.9E6	472.2E6	107.406	109.655	
7)	Aldrin	6.769	7.542	420.9E6	472.0E6	104.171	108.641	
8)	Heptachlo...	7.229	7.979	380.6E6	404.3E6	103.077	112.616	
9)	trans-Chl...	7.325	8.119	392.8E6	432.7E6	104.440	116.358	
10)	cis-Chlor...	7.422	8.226	377.5E6	395.1E6	102.792	112.151	
11)	Endosulfa...	7.517	8.277	349.5E6	392.5E6	100.755	118.767	
12)	4,4'-DDE	7.489	8.331	378.7E6	405.9E6	114.052	107.249	
13)	Dieldrin	7.690	8.478	402.8E6	425.1E6	105.631	105.342	
14)	Endrin	7.854	8.706	338.4E6	354.5E6	103.699	105.353	
15)	4,4'-DDD	7.909	8.747	297.7E6	330.1E6	116.957	109.252	
16)	Endosulfa...	8.010	8.853	331.9E6	341.9E6	110.942	108.308	
17)	4,4'-DDT	8.108	8.975	298.8E6	340.3E6	111.153	108.537	
18)	Endrin Al...	8.301	9.090	258.6E6	290.0E6	98.229	109.684	
19)	Endosulfa...	8.603	9.281	304.5E6	315.4E6	106.371	105.752	
20)	Methoxychlor	8.450	9.453	133.1E6	149.0E6	110.323	109.548	
21)	Endrin Ke...	8.797	9.683	366.8E6	363.7E6	106.117	107.516	
23)	Hexachlor...	3.086	3.680	47052	14977	0.012	0.003	#
24)	Hexachlor...	5.679	6.439	515767	48762	0.153	BelowCal	#
25)	Oxychlordane	7.166	7.903	1730960	151616	0.384	0.047	#
26)	2,4'-DDE	7.229	8.119	380.6E6	432.7E6	164.632	190.349	
27)	trans-Non...	7.422	8.176	377.5E6	1355571	102.963	0.376	#
28)	2,4'-DDD	7.607	8.478	1050133	425.1E6	0.542	222.092	#
29)	2,4'-DDT	7.793	8.706	1558722	354.5E6	0.651	132.841	#
30)	cis-Nonac...	7.909f	8.747	297.7E6	330.1E6	73.144	82.821	
31)	Mirex	8.543	9.683	1156298	363.7E6	0.271	161.513	#
32)	Chlordane...	7.325	8.119	392.8E6	432.7E6	980.700	995.831	
33)	Chlordane...	7.422	8.226	377.5E6	395.1E6	776.186	1086.691	#
34)	Chlordane...	7.972	8.900	2415995	2205038	18.556	18.568	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.478f	377.5E6	425.1E6	23060.121	14426.951	#
37)	Toxaphene...	7.690	0.000	402.8E6	0	12822.085	N.D.	#
38)	Toxaphene...	8.010	8.853	331.9E6	341.9E6	4966.478	5284.613	
39)	Toxaphene...	8.221f	8.900	4920371	2205038	68.867	18.721	#
40)	Toxaphene...	8.450f	9.090	133.1E6	290.0E6	2455.995	5058.068	#
41)	Toxaphene...	8.543	9.453	1156298	149.0E6	15.204	2255.841	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

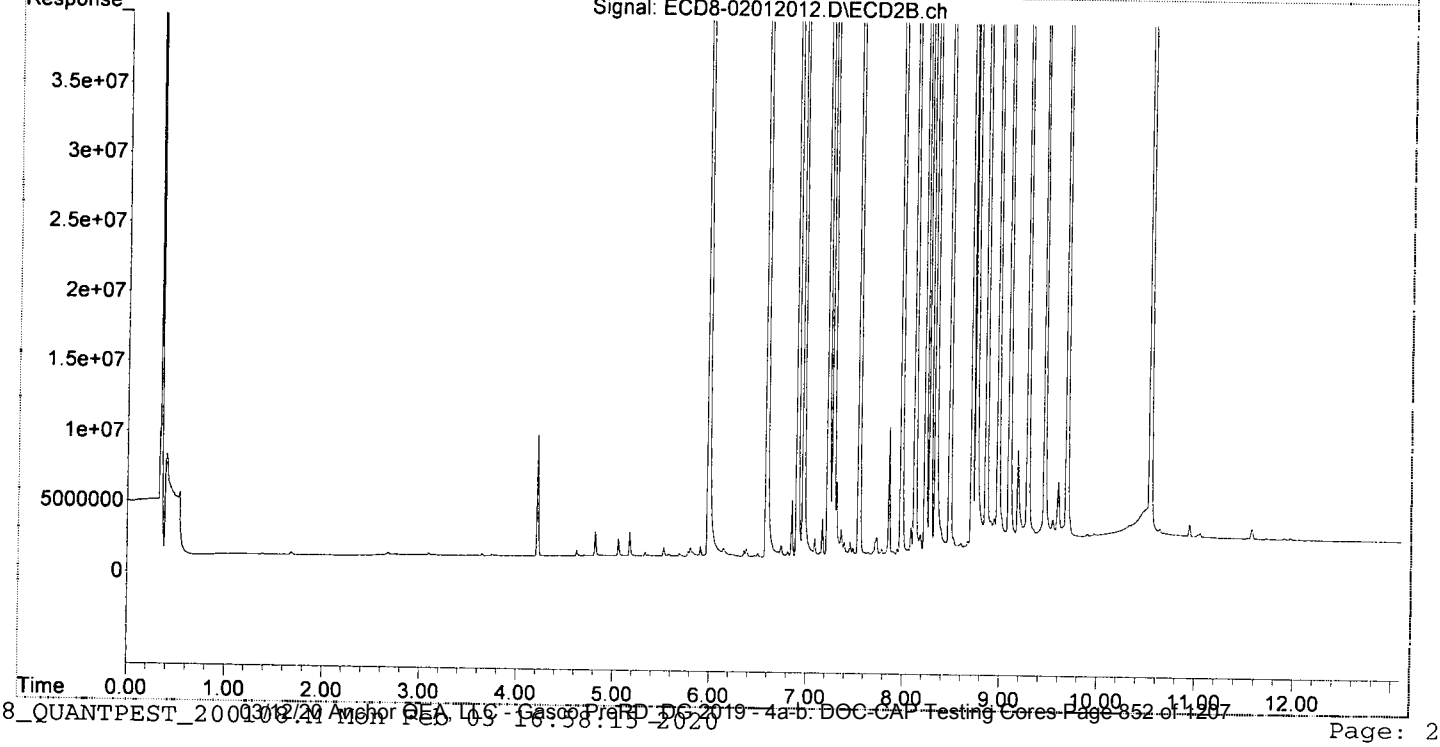
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

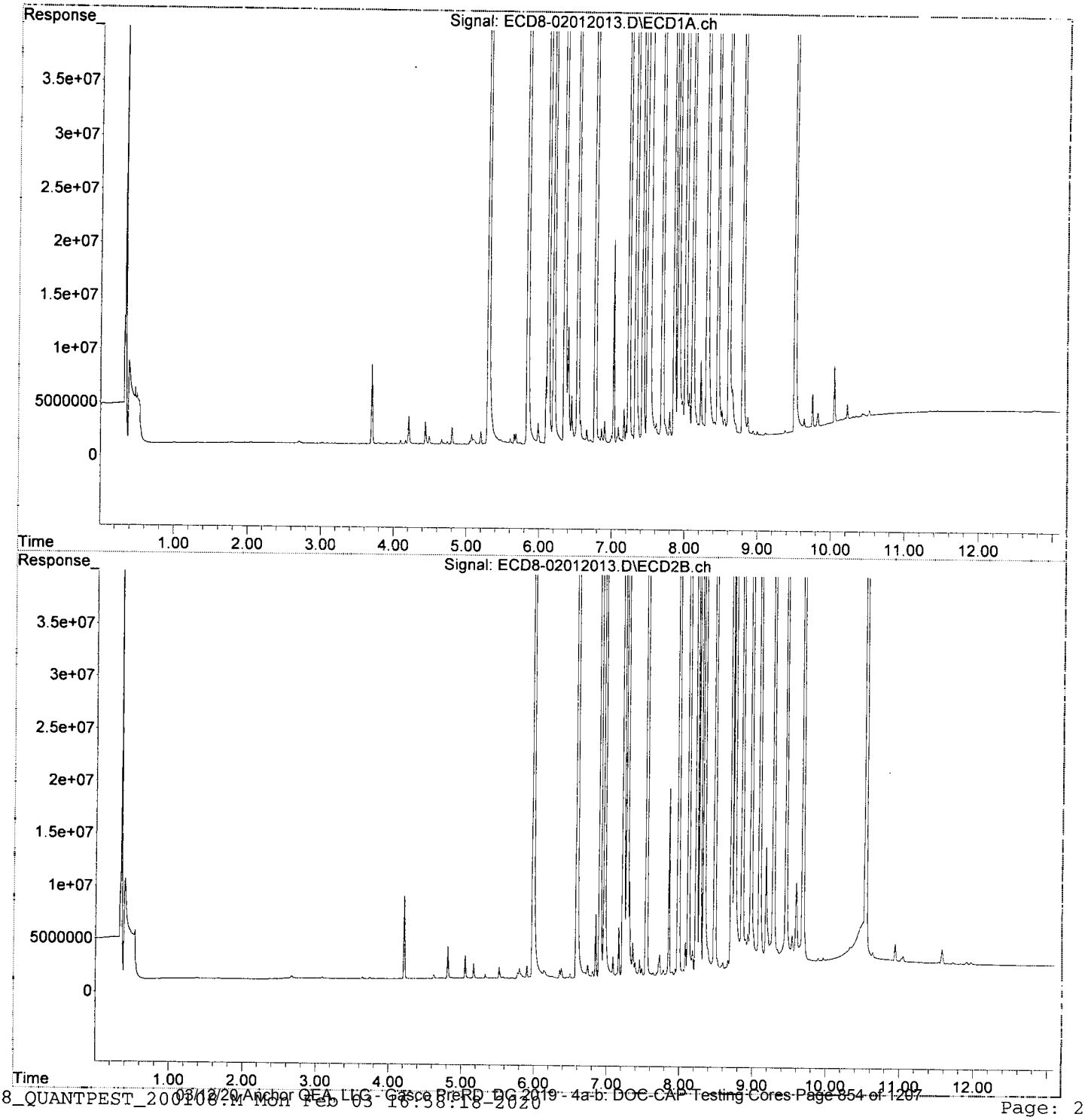
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	683.0E6	808.5E6	195.366	234.378	
22)	S DCBP (S)	9.507	10.537	554.4E6	477.6E6	198.363	195.289	
	Target Compounds							
2)	a-BHC	5.837	6.585	1000.4E6	1133.4E6	211.739	193.275	
3)	g-BHC	6.119	6.902	881.5E6	980.3E6	211.716	192.751	
4)	b-BHC	6.196	6.965	344.6E6	391.9E6	197.840	225.731	
5)	Heptachlor	6.529	7.275	827.5E6	966.0E6	201.350	229.415	
6)	d-BHC	6.344	7.220	826.3E6	939.7E6	193.127	191.350	
7)	Aldrin	6.768	7.542	802.5E6	928.8E6	198.603	192.949	
8)	Heptachlo...	7.229	7.979	732.6E6	788.7E6	198.384	219.719	
9)	trans-Chl...	7.325	8.119	764.5E6	821.8E6	203.287	221.020	
10)	cis-Chlor...	7.422	8.226	729.7E6	792.8E6	198.698	225.050	
11)	Endosulfa...	7.517	8.277	669.0E6	733.7E6	192.854	222.006	
12)	4,4'-DDE	7.488	8.331	725.7E6	835.1E6	218.544	192.970	
13)	Dieldrin	7.690	8.478	786.9E6	871.2E6	206.356	194.082	
14)	Endrin	7.854	8.705	655.2E6	738.6E6	200.748	195.142	
15)	4,4'-DDD	7.909	8.749	592.3E6	679.7E6	232.738	191.866	
16)	Endosulfa...	8.011	8.853	596.6E6	684.8E6	199.444	192.330	
17)	4,4'-DDT	8.108	8.975	627.2E6	706.5E6	233.304	192.640	
18)	Endrin Al...	8.301	9.090	520.7E6	585.1E6	197.778	221.305	
19)	Endosulfa...	8.603	9.281	590.5E6	660.6E6	206.312	194.929	
20)	Methoxychlor	8.450	9.453	273.2E6	304.3E6	226.447	192.101	
21)	Endrin Ke...	8.797	9.683	708.8E6	737.0E6	205.066	192.732	
23)	Hexachlor...	3.085	3.679	47773	26074	0.012	0.005	#
24)	Hexachlor...	5.679	6.457	964328	108256	0.287	BelowCal	#
25)	Oxychlordane	7.165	7.903	3131171	344130	0.840	0.108	#
26)	2,4'-DDE	7.229	8.119	732.6E6	821.8E6	316.854	361.565	
27)	trans-Non...	7.422	8.177	729.7E6	2322130	199.027	0.643	#
28)	2,4'-DDD	7.607	8.478	1629132	871.2E6	0.841	455.089	#
29)	2,4'-DDT	7.792	8.705	2633301	738.6E6	1.100	238.485	#
30)	cis-Nonac...	7.909f	8.749	592.3E6	679.7E6	145.551	170.546	
31)	Mirex	8.547	9.683	1677558	737.0E6	0.486	305.698	#
32)	Chlordane...	7.325	8.119	764.5E6	821.8E6	1908.890	1891.572	
33)	Chlordane...	7.422	8.226	729.7E6	792.8E6	1500.369	2180.621	#
34)	Chlordane...	7.971	8.900	3592037	3270989	27.589	27.544	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.422f	8.478f	729.7E6	871.2E6	44575.283	29562.245	#
37)	Toxaphene...	7.690	0.000	786.9E6	0	25048.714	N.D.	#
38)	Toxaphene...	8.011	8.853	596.6E6	684.8E6	9382.458	10584.537	
39)	Toxaphene...	8.263	8.900	1249823	3270989	12.325	29.766	#
40)	Toxaphene...	8.450f	9.090	273.2E6	585.1E6	5041.110	10205.432	#
41)	Toxaphene...	8.547	9.453	1677558	304.3E6	22.057	4607.332	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

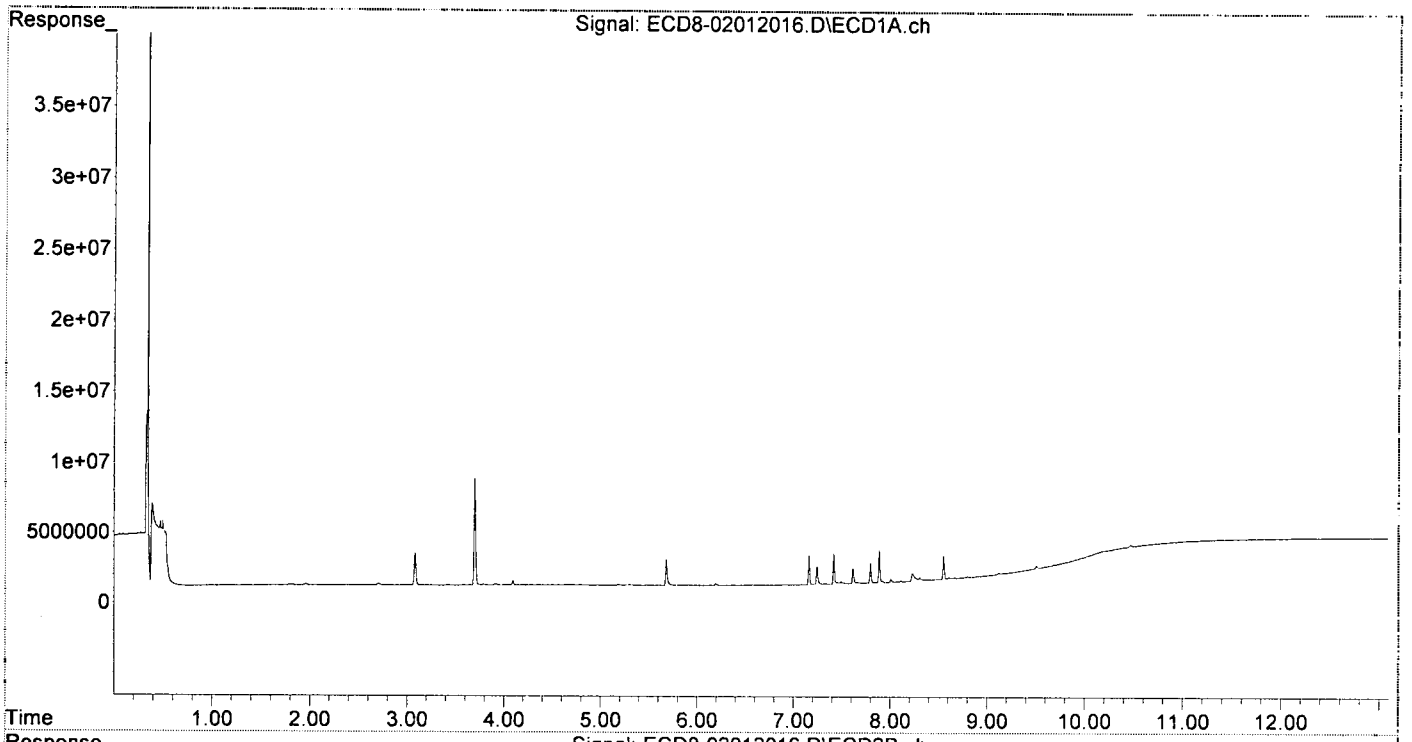
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.299	5.985	68485	103337	0.020	0.030 #
22) S	DCBP (S)	9.508	10.537	377603	163698	BelowCal	BelowCal
	Target Compounds						
2)	a-BHC	5.846	6.582	35427	35202	0.007	0.084 #
3)	g-BHC	6.146f	6.904	28094	12379	0.007	0.045 #
4)	b-BHC	6.193	6.975	143092	58075	0.082	0.033 #
5)	Heptachlor	6.531	7.280	17250	20742	0.004	0.005
6)	d-BHC	6.357	7.227	20258	37306	0.112	0.108
7)	Aldrin	6.775	7.548	10239	18189	0.003	0.017 #
8)	Heptachlo...	7.243	7.979	1290069	40076	0.349	0.011 #
9)	trans-Chl...	7.327	8.113	59794	1200073	0.016	0.323 #
10)	cis-Chlor...	7.417	8.227	2168811	70400	0.591	0.020 #
11)	Endosulfa...	7.495f	8.280	168196	39614	0.048	0.012 #
12)	4,4'-DDE	7.495	8.335	168196	125822	0.051	0.129 #
13)	Dieldrin	7.694	8.487	42766	960869	0.011	0.307 #
14)	Endrin	7.854	8.710	28556	1210132	0.009	0.414 #
15)	4,4'-DDD	7.917	8.749	109926	2084280	0.043	0.934 #
16)	Endosulfa...	8.008	8.854	228510	57189	0.076	BelowCal #
17)	4,4'-DDT	8.112	8.975	68721	149567	0.026	0.035 #
18)	Endrin Al...	8.305	9.092	231531	174162	0.088	0.066 #
19)	Endosulfa...	8.607	9.283	82250	99005	0.029	BelowCal #
20)	Methoxychlor	8.460	9.444	20527	73043	0.017	BelowCal #
21)	Endrin Ke...	8.799	9.675	76798	1475836	0.022	0.300 #
23)	Hexachlor...	3.080	3.680	2278541	2594123	0.585	0.536
24)	Hexachlor...	5.681	6.450	1894604	1616133	0.564	0.508
25)	Oxychlordane	7.160	7.908	2078442	1817597	0.497	0.568
26)	2,4'-DDE	7.243	8.113	1290069	1200073	0.558	0.528
27)	trans-Non...	7.417	8.182	2168811	2004659	0.592	0.555
28)	2,4'-DDD	7.615	8.487	1111537	960869	0.574	0.502
29)	2,4'-DDT	7.797	8.710	1418724	1210132	0.593	0.519
30)	cis-Nonac...	7.887	8.749	2296885	2084280	0.564	0.523
31)	Mirex	8.552	9.675	1693083	1475836	0.493	0.461
32)	Chlordane...	7.327	8.113	59794	1200073	0.149	2.762 #
33)	Chlordane...	7.417	8.227	2168811	70400	4.460	0.194 #
34)	Chlordane...	7.982	8.876	14747	7431	0.113	0.063 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.417	8.487f	2168811	960869	132.492	32.606 #
37)	Toxaphene...	7.694	8.804	42766	22811	1.361	0.568 #
38)	Toxaphene...	8.008	8.834	228510	136988	0.086	2.117 #
39)	Toxaphene...	8.229	8.911	543902	552632	1.443	1.562
40)	Toxaphene...	8.460	9.092	20527	174162	0.379	3.038 #
41)	Toxaphene...	8.552	9.478	1693083	93249	22.262	1.412 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

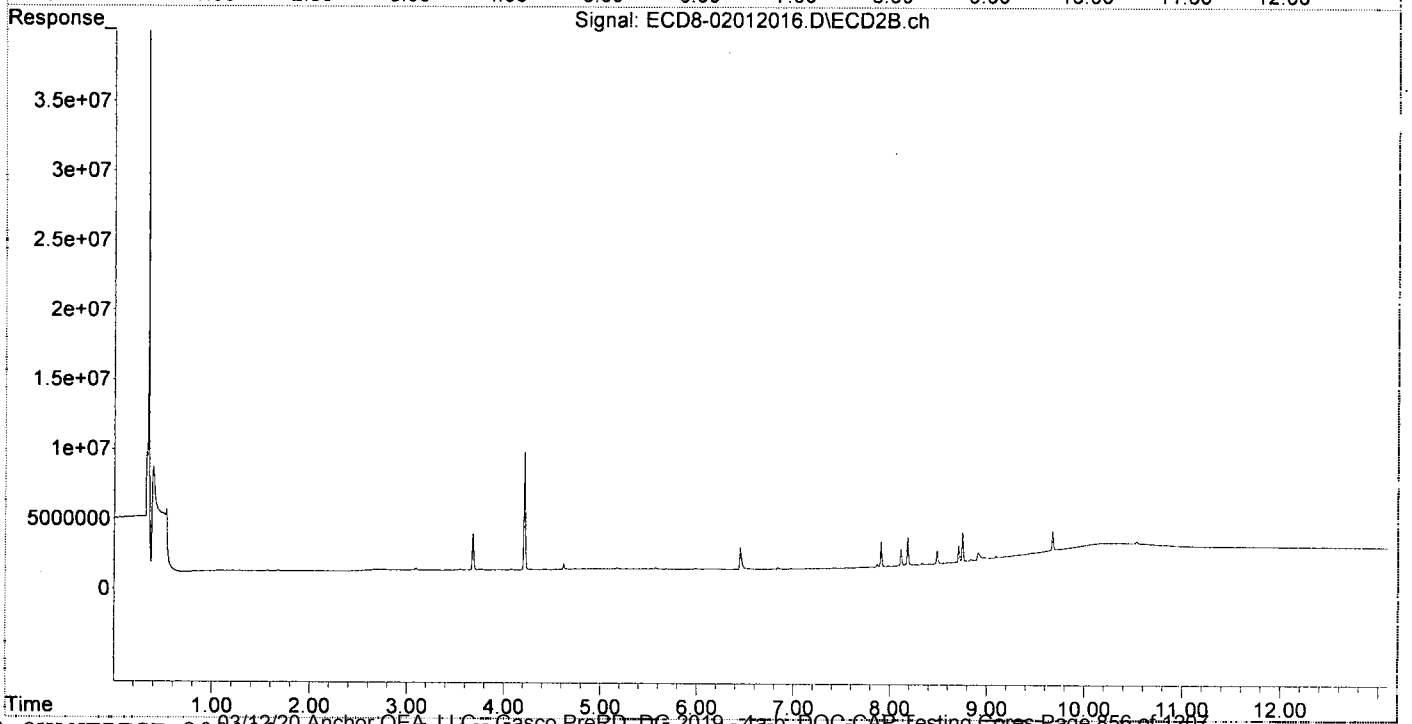
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MD 2/3/20

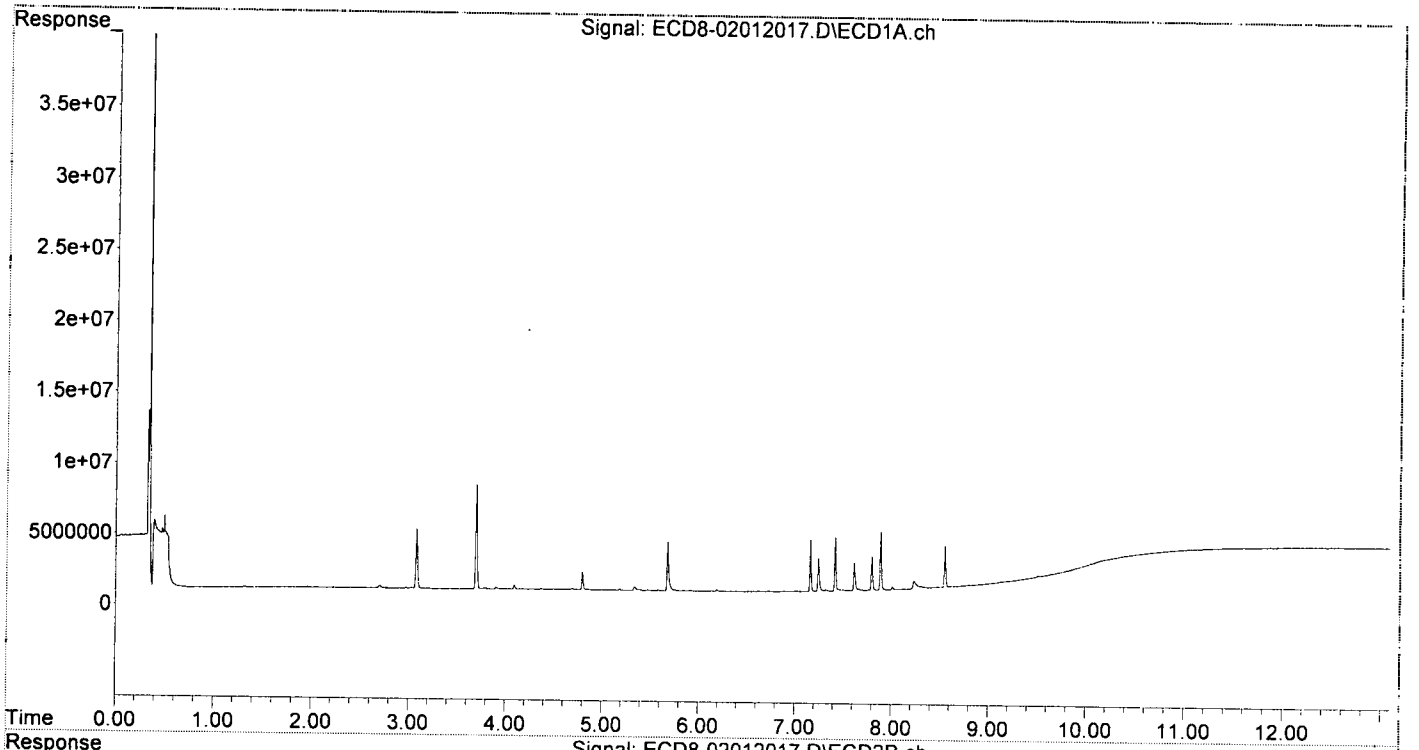
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.337f	5.984	229364	104783	0.066	0.030	#
22)	S DCBP (S)	9.508	10.536	256145	681144	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.844	6.579	36088	42418	0.008	0.086	#
3)	g-BHC	6.136	6.938f	33688	6890	0.008	0.044	#
4)	b-BHC	6.192	6.967	137751	14912	0.079	0.009	#
5)	Heptachlor	6.526	7.277	7914	16707	0.002	0.004	#
6)	d-BHC	0.000	7.226	0	35191	N.D.	0.108	#
7)	Aldrin	0.000	7.557	0	84669	N.D.	0.035	#
8)	Heptachlo...	7.243	7.981	2295081	34781	0.621	0.010	#
9)	trans-Chl...	7.327	8.112	93035	2104301	0.025	0.566	#
10)	cis-Chlor...	7.417	0.000	3768972	0	1.026	N.D.	#
11)	Endosulfa...	7.490f	8.284	80461	28347	0.023	0.009	#
12)	4,4'-DDE	7.490	8.336	80461	36515	0.024	0.100	#
13)	Dieldrin	7.688	8.486	25217	1795089	0.007	0.545	#
14)	Endrin	7.852	8.709	24371	2100185	0.007	0.723	#
15)	4,4'-DDD	7.886f	8.748	4089263	3801985	1.607	1.665	
16)	Endosulfa...	8.009	8.857	200043	97288	0.067	0.006	#
17)	4,4'-DDT	8.126	0.000	8508	0	0.003	N.D.	#
18)	Endrin Al...	8.304	9.092	165249	236794	0.063	0.090	#
19)	Endosulfa...	8.605	9.283	50108	268280	0.018	0.018	
20)	Methoxychlor	8.444	0.000	9771	0	0.008	N.D.	#
21)	Endrin Ke...	8.801	9.674	31647	2854711	0.009	0.789	#
23)	Hexachlor...	3.080	3.679	4206156	4878910	1.079	1.008	
24)	Hexachlor...	5.680	6.450	3451879	2946247	1.027	0.971	
25)	Oxychlordane	7.159	7.908	3626338	3174792	1.001	0.993	
26)	2,4'-DDE	7.243	8.112	2295081	2104301	0.993	0.926	
27)	trans-Non...	7.417	8.182	3768972	3680280	1.028	1.020	
28)	2,4'-DDD	7.614	8.486	1934222	1795089	0.999	0.938	
29)	2,4'-DDT	7.796	8.709	2374152	2100185	0.992	0.936	
30)	cis-Nonac...	7.886	8.748	4089263	3801985	1.005	0.954	
31)	Mirex	8.552	9.674	2918797	2854711	0.999	1.127	
32)	Chlordane...	7.327	8.112	93035	2104301	0.232	4.843	#
33)	Chlordane...	7.417	0.000	3768972	0	7.750	N.D.	#
34)	Chlordane...	7.969	8.911f	12864	628571	0.099	5.293	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.417	8.486f	3768972	1795089	230.245	60.915	#
37)	Toxaphene...	7.688	8.794	25217	83988	0.803	2.090	#
38)	Toxaphene...	8.009	8.833	200043	184780	96751.095	2.856	#
39)	Toxaphene...	8.231	8.911	549160	628571	1.524	2.352	#
40)	Toxaphene...	8.466	9.092	12477	236794	0.230	4.130	#
41)	Toxaphene...	8.552	0.000	2918797	0	38.378	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

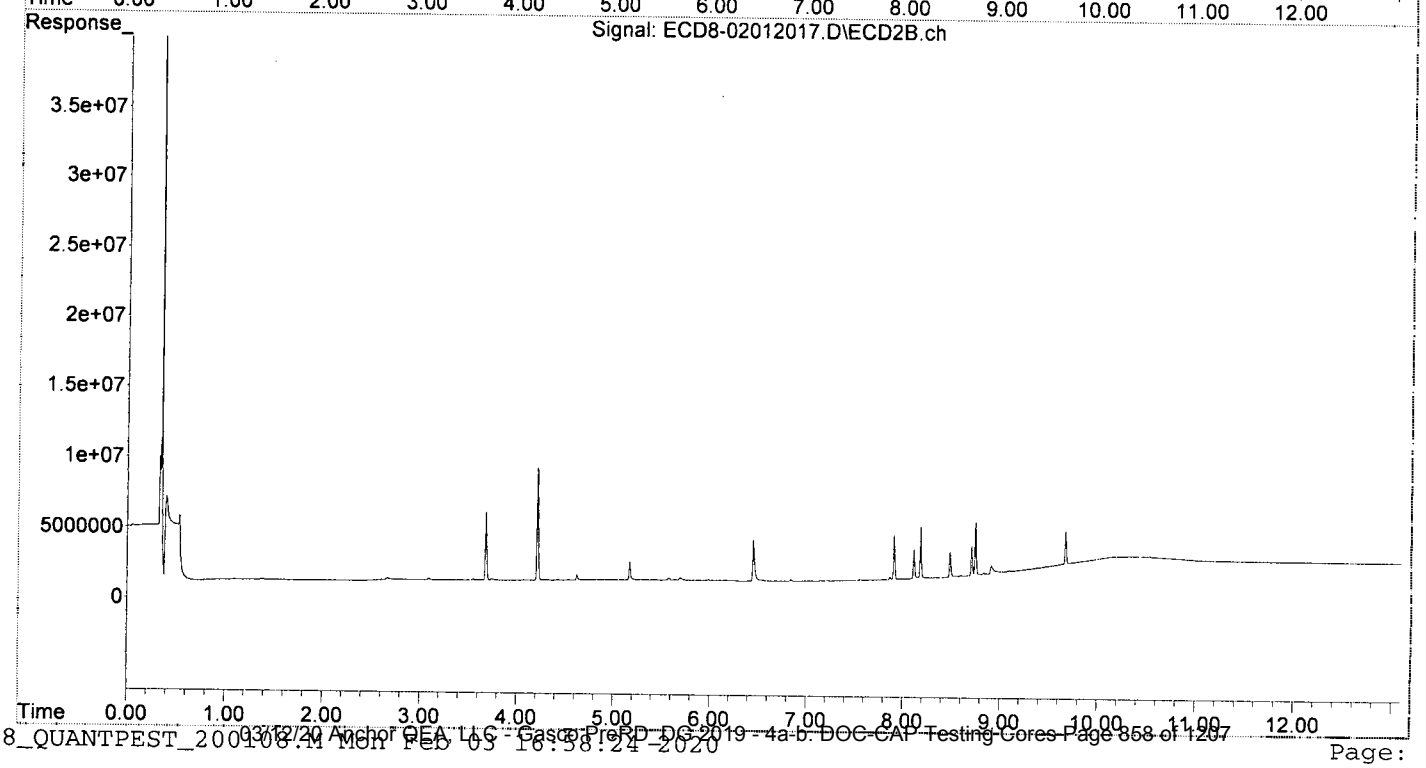
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MR 2/3/20

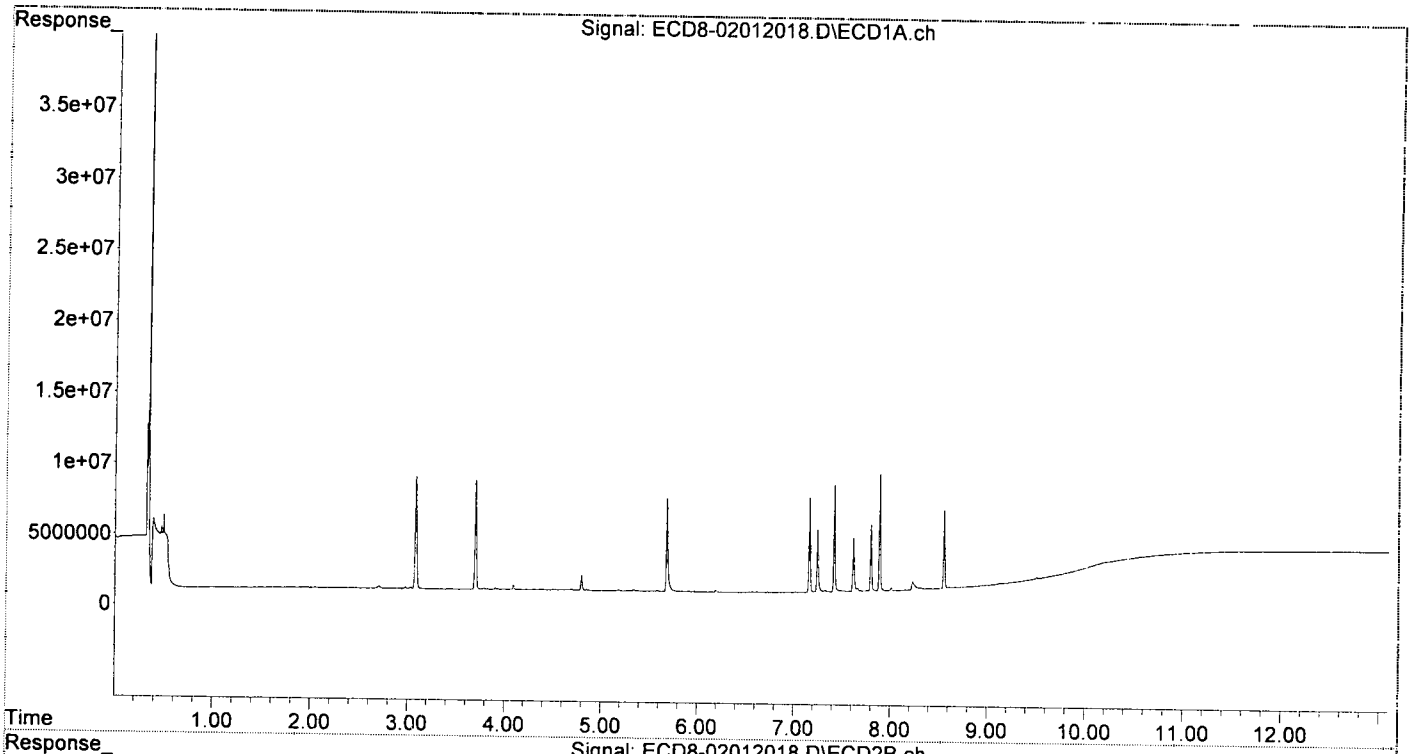
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.299	5.983	19602	101756	0.006	0.029 #
22)	S	DCBP (S)	9.506	10.538	109381	596649	BelowCal	BelowCal
		Target Compounds						
2)		a-BHC	5.841	6.584	55246	56316	0.012	0.089 #
3)		g-BHC	6.138	6.904	39150	10198	0.009	0.045 #
4)		b-BHC	6.189	6.970	159134	16074	0.091	0.009 #
5)		Heptachlor	6.529	7.273	21454	20040	0.005	0.005
6)		d-BHC	0.000	7.224	0	30748	N.D.	0.106 #
7)		Aldrin	0.000	7.557	0	61303	N.D.	0.028 #
8)		Heptachlo...	7.241	7.981	4488919	38565	1.216	0.011 #
9)		trans-Chl...	7.326	8.112	113780	4260806	0.030	1.146 #
10)		cis-Chlor...	7.416	0.000	7569675	0	2.061	N.D. #
11)		Endosulfa...	7.492f	8.290	75226	31629	0.022	0.010 #
12)		4,4'-DDE	7.492	8.334	75226	29813	0.023	0.098 #
13)		Dieldrin	7.691	8.485	47941	3680145	0.013	1.082 #
14)		Endrin	7.848	8.709	44345	4187285	0.014	1.447 #
15)		4,4'-DDD	7.886f	8.748	8283514	7352547	3.255	3.167
16)		Endosulfa...	8.007	8.833f	224082	186026	0.075	0.040 #
17)		4,4'-DDT	8.110	8.970	12299	196449	0.005	0.055 #
18)		Endrin Al...	8.306	9.092	138044	196872	0.052	0.074 #
19)		Endosulfa...	8.604	9.284	56452	243989	0.020	0.009 #
20)		Methoxychlor	8.462	0.000	13865	0	0.011	N.D. #
21)		Endrin Ke...	8.800	9.674	36340	4870687	0.011	1.502 #
23)		Hexachlor...	3.080	3.680	7973044	9306742	2.045	1.922
24)		Hexachlor...	5.680	6.449	6640927	5773353	1.976	1.952
25)		Oxychlordane	7.158	7.907	6769962	6050162	2.025	1.892
26)		2,4'-DDE	7.241	8.112	4488919	4260806	1.941	1.875
27)		trans-Non...	7.416	8.182	7569675	6830472	2.065	1.892
28)		2,4'-DDD	7.614	8.485	3838920	3680145	1.982	1.922
29)		2,4'-DDT	7.795	8.709	4727347	4187285	1.975	1.911
30)		cis-Nonac...	7.886	8.748	8283514	7352547	2.036	1.845
31)		Mirex	8.551	9.674	5534484	4870687	2.079	2.100
32)		Chlordane...	7.326	8.112	113780	4260806	0.284	9.807 #
33)		Chlordane...	7.416	0.000	7569675	0	15.565	N.D. #
34)		Chlordane...	7.969	8.910f	15517	609465	0.119	5.132 #
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)		Toxaphene...	7.382	8.485f	5267	3680145	0.322	124.882 #
37)		Toxaphene...	7.691	8.833f	47941	186026	1.526	4.629 #
38)		Toxaphene...	8.007	8.833	224082	186026	0.023	2.875 #
39)		Toxaphene...	8.229	8.910	567766	609465	1.811	2.153
40)		Toxaphene...	8.474	9.092	10619	196872	0.196	3.434 #
41)		Toxaphene...	8.551	0.000	5534484	0	72.770	N.D. #
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

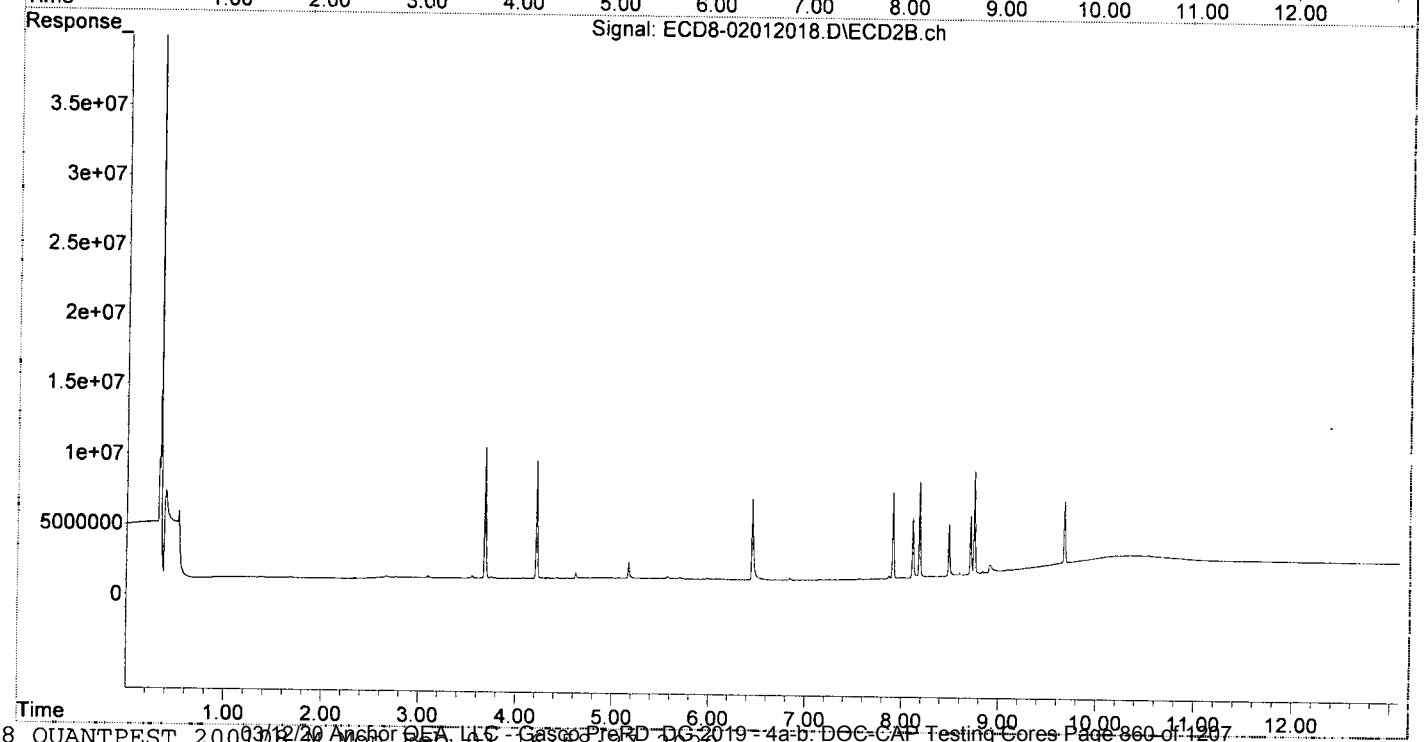
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

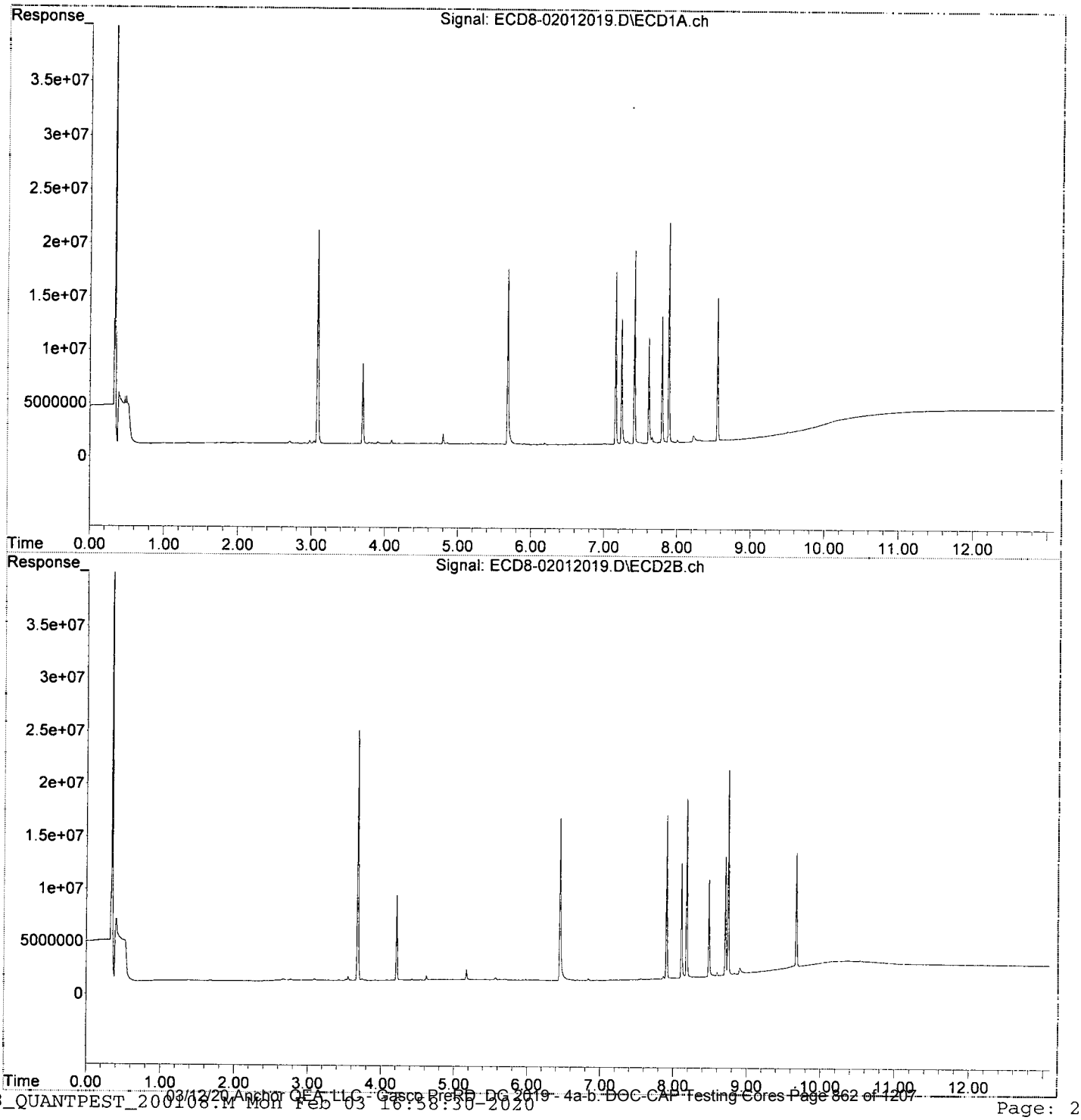
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.274f	5.983	35388	75103	0.010	0.022	#
22)	S	DCBP (S)	9.508	10.536	305584	1041976	BelowCal	0.008	
		Target Compounds							
2)		a-BHC	5.838	6.580	105593	130785	0.022	0.106	#
3)		g-BHC	6.134	6.903	74335	44969	0.018	0.054	#
4)		b-BHC	6.187	6.973	184071	49848	0.106	0.029	#
5)		Heptachlor	6.530	7.277	50239	54821	0.012	0.013	
6)		d-BHC	6.348	7.223	30064	74225	0.115	0.119	
7)		Aldrin	6.770	7.532	15293	16328	0.004	0.016	#
8)		Heptachlo...	7.241	7.979	11743726	97727	3.180	0.027	#
9)		trans-Chl...	7.326	8.111	245682	10906405	0.065	2.933	#
10)		cis-Chlor...	7.416	0.000	18115649	0	4.933	N.D.	#
11)		Endosulfa...	7.496f	8.278	95554	92988	0.028	0.028	
12)		4,4'-DDE	7.496	8.334	95554	71774	0.029	0.111	#
13)		Dieldrin	7.692	8.485	108385	9298557	0.028	2.678	#
14)		Endrin	7.886f	8.709	20605958	11358035	6.314	3.923	#
15)		4,4'-DDD	7.886f	8.748	20605958	19585336	8.097	8.253	
16)		Endosulfa...	8.005	8.857	242760	228631	0.081	0.056	#
17)		4,4'-DDT	8.113	8.961	20866	342806	0.008	0.114	#
18)		Endrin Al...	8.305	9.090	152427	376004	0.058	0.142	#
19)		Endosulfa...	8.605	9.284	78575	449522	0.027	0.091	#
20)		Methoxychlor	0.000	9.449	0	532881	N.D.	0.129	#
21)		Endrin Ke...	8.799	9.674	48323	11467148	0.014	3.821	#
23)		Hexachlor...	3.081	3.680	20008341	23748664	5.133	4.905	
24)		Hexachlor...	5.680	6.449	16447257	15411069	4.893	5.270	
25)		Oxychlordane	7.159	7.908	16184302	15509955	5.088	4.850	
26)		2,4'-DDE	7.241	8.111	11743726	10906405	5.079	4.798	
27)		trans-Non...	7.416	8.182	18115649	16987074	4.941	4.706	
28)		2,4'-DDD	7.613	8.485	9882639	9298557	5.103	4.857	
29)		2,4'-DDT	7.795	8.709	11872885	11358035	4.961	5.235	
30)		cis-Nonac...	7.886	8.748	20605958	19585336	5.064	4.914	
31)		Mirex	8.551	9.674	13322527	11467148	5.298	5.276	
32)		Chlordane...	7.326	8.111	245682	10906405	0.613	25.102	#
33)		Chlordane...	7.416	0.000	18115649	0	37.250	N.D.	#
34)		Chlordane...	8.005f	8.870	242760	201713	1.865	1.699	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.416	8.436	18115649	51655	1106.677	1.753	#
37)		Toxaphene...	7.692	8.831f	108385	327973	3.450	8.161	#
38)		Toxaphene...	8.005	8.831	242760	327973	0.289	5.069	#
39)		Toxaphene...	8.224	8.908	579745	764477	1.995	3.764	#
40)		Toxaphene...	0.000	9.090	0	376004	N.D.	6.559	#
41)		Toxaphene...	8.551	9.449	13322527	532881	175.172	8.067	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

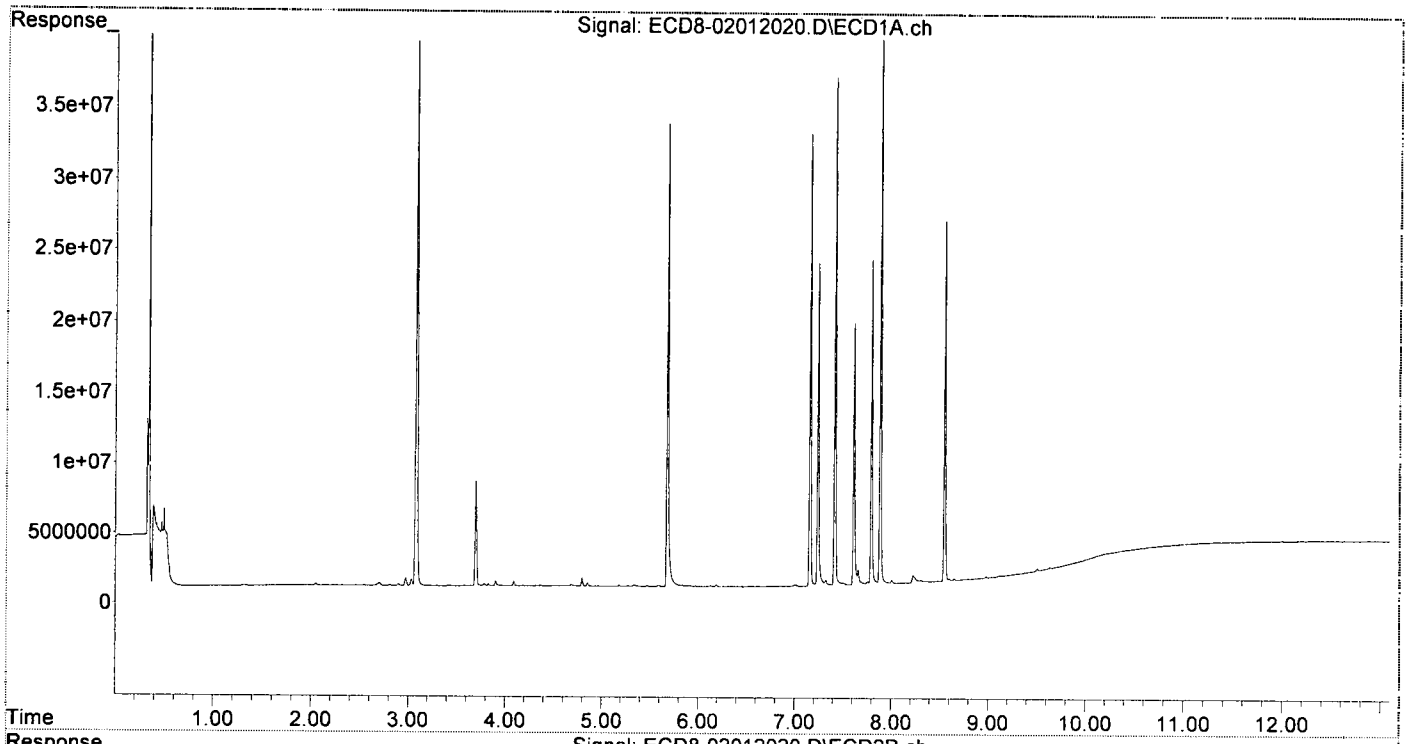
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.274f	5.986	81445	79788	0.023	0.023	
22)	S	DCBP (S)	9.507	10.538	324289	369785	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.841	0.000	99883	0	0.021	N.D.	#
3)		g-BHC	6.109	6.902	26027	16767	0.006	0.046	#
4)		b-BHC	6.189	6.972	154156	28647	0.089	0.017	#
5)		Heptachlor	6.529	7.275	55254	58281	0.013	0.014	
6)		d-BHC	6.352	7.224	28919	70939	0.115	0.118	
7)		Aldrin	0.000	7.557	0	78398	N.D.	0.033	#
8)		Heptachlo...	7.240	7.979	22804364	134761	6.175	0.038	#
9)		trans-Chl...	7.326	8.112	424054	21958095	0.113	5.905	#
10)		cis-Chlor...	7.416	0.000	35883154	0	9.771	N.D.	#
11)		Endosulfa...	7.502	8.288	143488	113190	0.041	0.034	
12)		4,4'-DDE	7.502	8.332	143488	48480	0.043	0.104	#
13)		Dieldrin	7.695	8.484	189402	18062773	0.050	5.154	#
14)		Endrin	7.886f	8.708	40436692	22137862	12.390	7.608	#
15)		4,4'-DDD	7.886f	8.748	40436692	38325797	15.889	15.796	
16)		Endosulfa...	8.007	8.849	248978	86088	0.083	0.002	#
17)		4,4'-DDT	8.112	8.962	24555	161224	0.009	0.040	#
18)		Endrin Al...	8.306	9.092	135738	111834	0.052	0.042	
19)		Endosulfa...	8.602	9.284	111359	140116	0.039	BelowCal	#
20)		Methoxychlor	8.459	9.469	12577	212566	0.010	BelowCal	#
21)		Endrin Ke...	8.799	9.673	39505	20962075	0.011	7.125	#
23)		Hexachlor...	3.081	3.680	38377580	47088422	9.845	9.725	
24)		Hexachlor...	5.679	6.449	32647902	28525390	9.712	9.723	
25)		Oxychlordane	7.158	7.908	31984005	29890292	10.223	9.346	
26)		2,4'-DDE	7.240	8.112	22804364	21958095	9.863	9.660	
27)		trans-Non...	7.416	8.182	35883154	34402162	9.788	9.531	
28)		2,4'-DDD	7.613	8.484	18534620	18062773	9.570	9.436	
29)		2,4'-DDT	7.795	8.708	22928210	22137862	9.581	10.156	
30)		cis-Nonac...	7.886	8.748	40436692	38325797	9.937	9.617	
31)		Mirex	8.551	9.673	25430296	20962075	10.306	9.829	
32)		Chlordane...	7.326	8.112	424054	21958095	1.059	50.539	#
33)		Chlordane...	7.416	0.000	35883154	0	73.784	N.D.	#
34)		Chlordane...	7.949	8.908	124496	582747	0.956	4.907	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.416	8.449	35883154	6615	2192.086	0.224	#
37)		Toxaphene...	7.695	8.832f	189402	185152	6.029	4.607	
38)		Toxaphene...	8.007	8.832	248978	185152	0.377	2.862	#
39)		Toxaphene...	8.228	8.908	542657	582747	1.424	1.875	#
40)		Toxaphene...	8.475	9.092	7218	111834	0.133	1.951	#
41)		Toxaphene...	8.551	9.469	25430296	212566	334.371	3.218	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

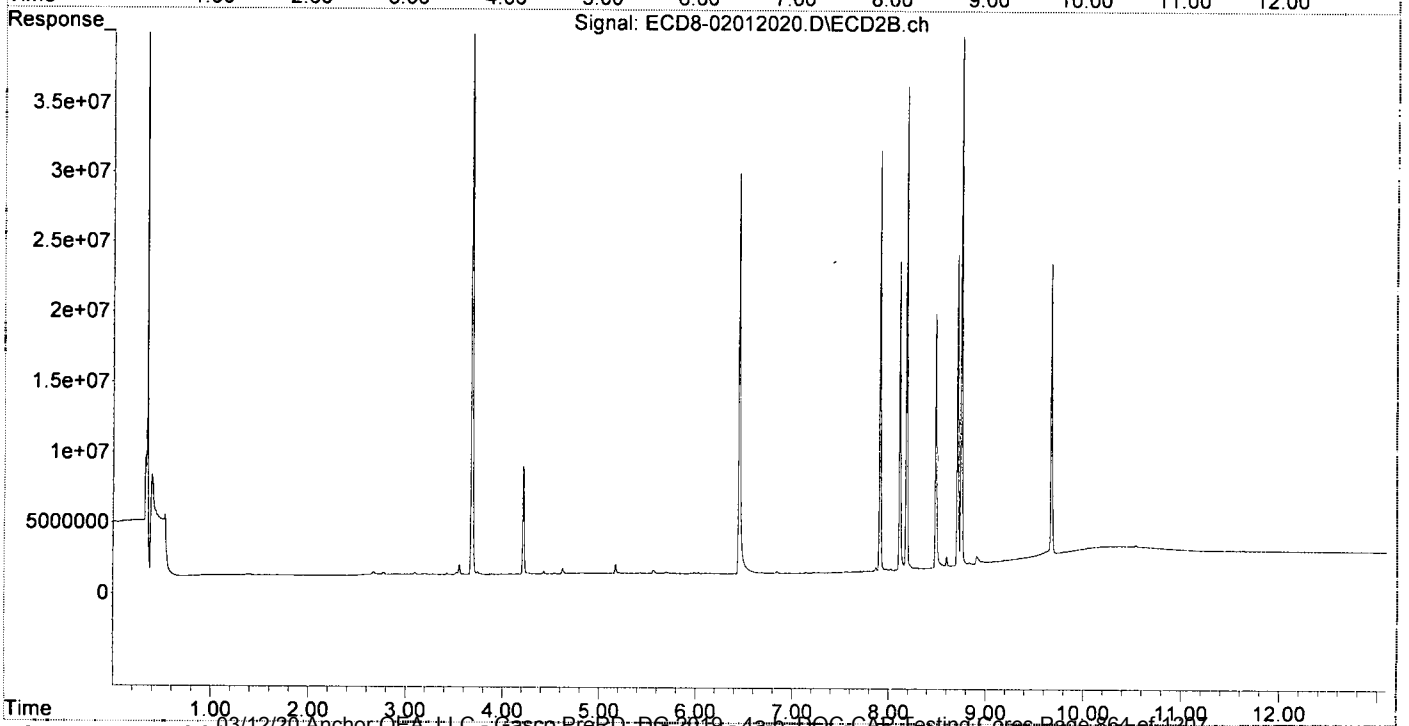
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

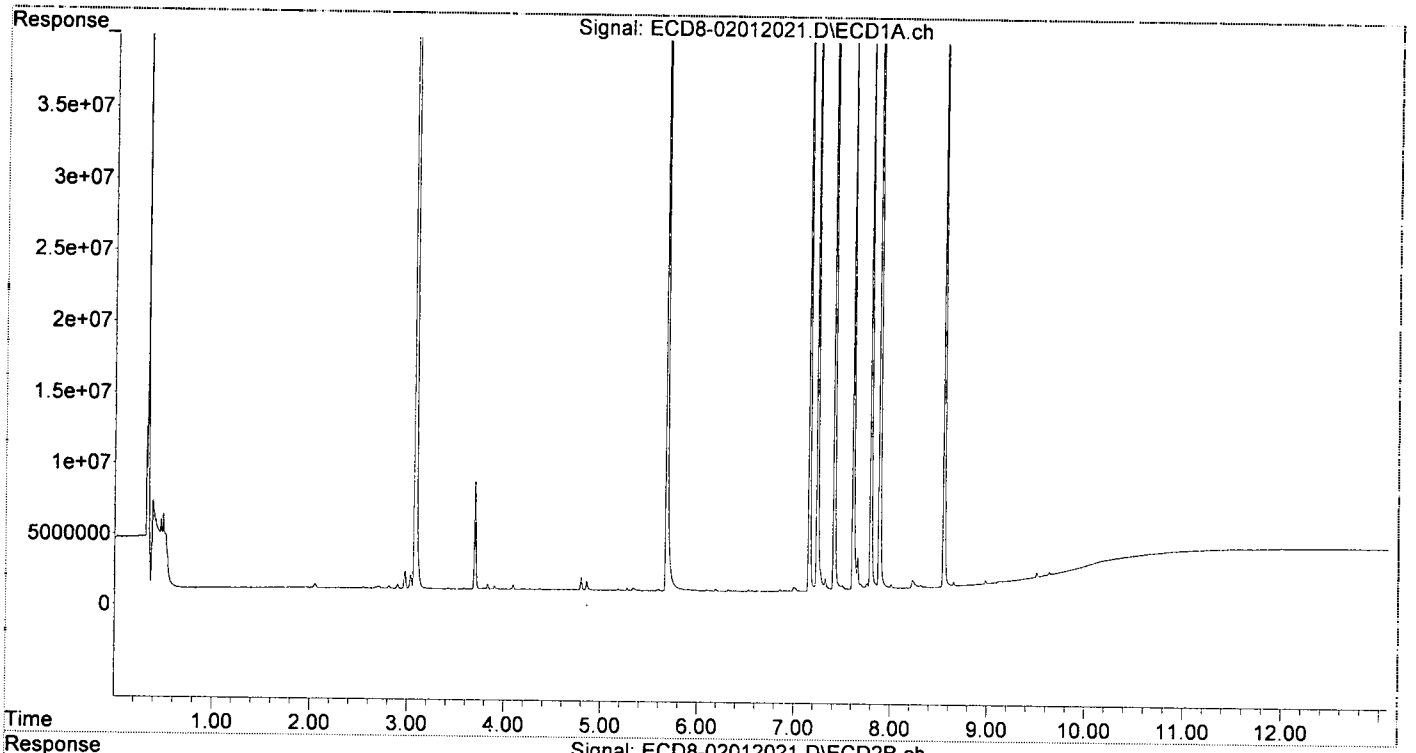
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.983	172543	81641	0.049	0.024	#
22)	S DCBP (S)	9.507	10.536	471771	879618	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.839	0.000	166681	0	0.035	N.D.	#
3)	g-BHC	6.135	6.933f	51177	19174	0.012	0.047	#
4)	b-BHC	6.190	6.974	158842	20783	0.091	0.012	#
5)	Heptachlor	6.530	7.275	101574	94681	0.025	0.022	
6)	d-BHC	6.364	7.227	19134	49353	0.112	0.112	
7)	Aldrin	6.782	7.536	7177	17598	0.002	0.017	#
8)	Heptachlo...	7.240	7.978	52202377	268492	14.136	0.075	#
9)	trans-Chl...	7.326	8.111	841486	51113359	0.224	13.746	#
10)	cis-Chlor...	7.416	0.000	81812536	0	22.279	N.D.	#
11)	Endosulfa...	7.504	8.288	332530	253043	0.096	0.077	
12)	4,4'-DDE	7.504	0.000	332530	0	0.100	N.D.	#
13)	Dieldrin	7.696	8.485	387193	42962025	0.102	12.094	#
14)	Endrin	7.887f	8.708	91550344	53723446	28.052	18.166	#
15)	4,4'-DDD	7.887f	8.748	91550344	90384875	35.973	35.397	
16)	Endosulfa...	8.008	8.833	293687	303094	0.098	0.085	
17)	4,4'-DDT	8.112	8.975	49514	242900	0.018	0.073	#
18)	Endrin Al...	8.315	9.089	178794	212447	0.068	0.080	
19)	Endosulfa...	0.000	9.283	0	293817	N.D.	0.029	#
20)	Methoxychlor	8.454	0.000	8593	0	0.007	N.D.	#
21)	Endrin Ke...	8.800	9.673	37765	47784220	0.011	16.253	#
23)	Hexachlor...	3.081	3.680	87282581	109.6E6	22.391	22.635	
24)	Hexachlor...	5.679	6.449	77942708	72282140	23.186	24.106	
25)	Oxychlordane	7.158	7.908	72990996	71584795	23.514	22.383	
26)	2,4'-DDE	7.240	8.111	52202377	51113359	22.578	22.487	
27)	trans-Non...	7.416	8.181	81812536	80789047	22.315	22.382	
28)	2,4'-DDD	7.612	8.485	42203429	42962025	21.790	22.443	
29)	2,4'-DDT	7.794	8.708	53607879	53723446	22.401	24.087	
30)	cis-Nonac...	7.887	8.748	91550344	90384875	22.497	22.680	
31)	Mirex	8.552	9.673	55829392	47784220	22.909	22.573	
32)	Chlordane...	7.326	8.111	841486	51113359	2.101	117.644	#
33)	Chlordane...	7.416	0.000	81812536	0	168.225	N.D.	#
34)	Chlordane...	0.000	8.911f	0	672731	N.D.	5.665	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.416	8.450	81812536	4689	4997.892	0.159	#
37)	Toxaphene...	7.696	8.833f	387193	303094	12.325	7.542	#
38)	Toxaphene...	8.008	8.833	293687	303094	1.012	4.685	#
39)	Toxaphene...	8.230	8.911	559144	672731	1.678	2.811	#
40)	Toxaphene...	8.460	9.089	8766	212447	0.162	3.706	#
41)	Toxaphene...	8.552	0.000	55829392	0	734.075	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

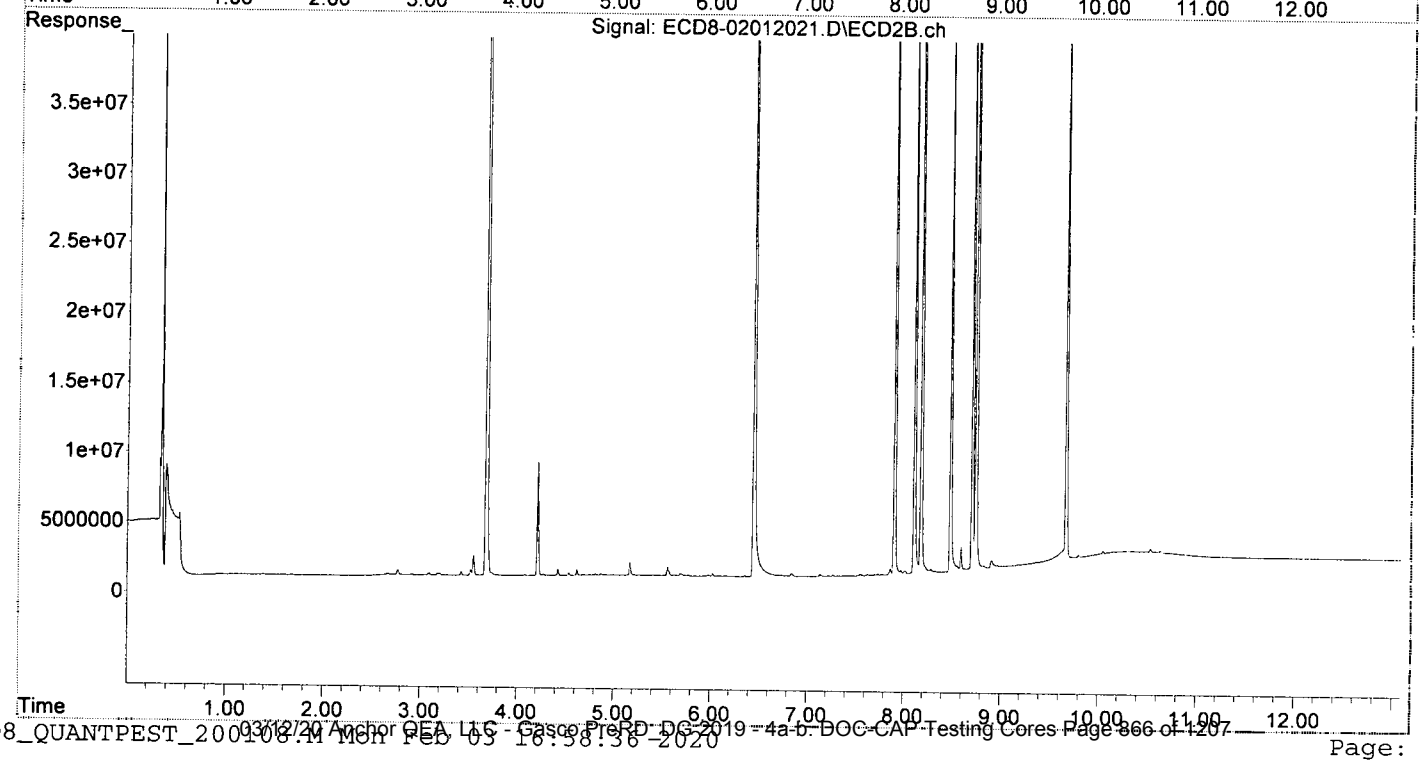
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

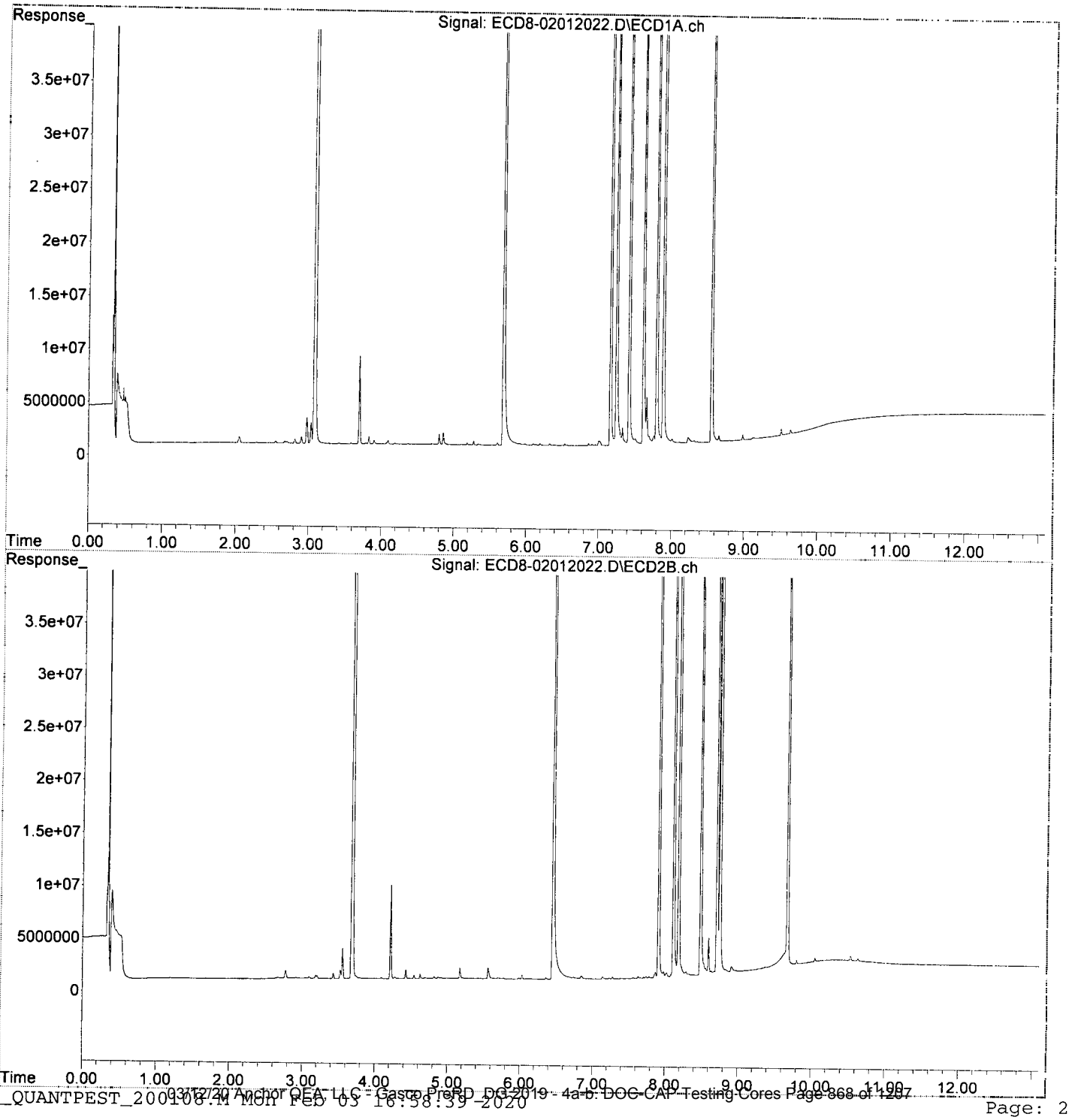
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.983	378443	98341	0.108	0.029	#
22)	S	DCBP (S)	9.507	10.537	770659	1505892	BelowCal	0.238	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.131	6.921	42529	49908	0.010	0.055	#
4)		b-BHC	6.189	6.974	171138	62085	0.098	0.036	#
5)		Heptachlor	6.529	7.276	180574	174281	0.044	0.041	
6)		d-BHC	6.321f	7.226	158264	70228	0.152	0.118	
7)		Aldrin	6.771	7.557	14501	78174	0.004	0.033	#
8)		Heptachlo...	7.239	7.977	116.4E6	566399	31.510	0.158	#
9)		trans-Chl...	7.325	8.110	1613637	117.1E6	0.429	31.503	#
10)		cis-Chlor...	7.415	0.000	177.0E6	0	48.205	N.D.	#
11)		Endosulfa...	7.503	8.288	545619	524397	0.157	0.159	
12)		4,4'-DDE	7.503	0.000	545619	0	0.164	N.D.	#
13)		Dieldrin	7.693	8.484	740452	99247235	0.194	27.303	#
14)		Endrin	7.885f	8.708	200.1E6	122.8E6	61.309	40.122	#
15)		4,4'-DDD	7.885f	8.748	200.1E6	209.3E6	78.621	74.665	
16)		Endosulfa...	8.009	8.832f	417201	627725	0.139	0.208	#
17)		4,4'-DDT	8.109	8.975	105504	496555	0.039	0.177	#
18)		Endrin Al...	8.314	9.094	228342	448426	0.087	0.170	#
19)		Endosulfa...	0.000	9.285	0	572993	N.D.	0.140	#
20)		Methoxychlor	8.452	0.000	11810	0	0.010	N.D.	#
21)		Endrin Ke...	8.799	9.674	56595	104.8E6	0.016	34.762	#
23)		Hexachlor...	3.080	3.680	186.6E6	249.2E6	47.861	51.461	
24)		Hexachlor...	5.679	6.448	165.7E6	168.5E6	49.297	53.551	
25)		Oxychlordane	7.158	7.907	160.5E6	160.7E6	51.703	50.251	
26)		2,4'-DDE	7.239	8.110	116.4E6	117.1E6	50.326	51.536	
27)		trans-Non...	7.415	8.182	177.0E6	179.2E6	48.284	49.647	
28)		2,4'-DDD	7.611	8.484	93133543	99247235	48.086	51.846	
29)		2,4'-DDT	7.793	8.708	117.1E6	122.8E6	48.936	52.394	
30)		cis-Nonac...	7.885	8.748	200.1E6	209.3E6	49.169	52.507	
31)		Mirex	8.551	9.674	117.1E6	104.8E6	48.444	49.128	
32)		Chlordane...	7.325	8.110	1613637	117.1E6	4.029	269.615	#
33)		Chlordane...	7.415	0.000	177.0E6	0	363.993	N.D.	#
34)		Chlordane...	0.000	8.913f	0	865676	N.D.	7.290	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.415	8.452	177.0E6	154019	10814.060	5.226	#
37)		Toxaphene...	7.693	8.832f	740452	627725	23.570	15.619	#
38)		Toxaphene...	8.009	8.832	417201	627725	2.767	9.703	#
39)		Toxaphene...	8.232	8.913	504733	865676	0.839	4.816	#
40)		Toxaphene...	8.469	9.094	6969	448426	0.129	7.822	#
41)		Toxaphene...	8.551	0.000	117.1E6	0	1540.175	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

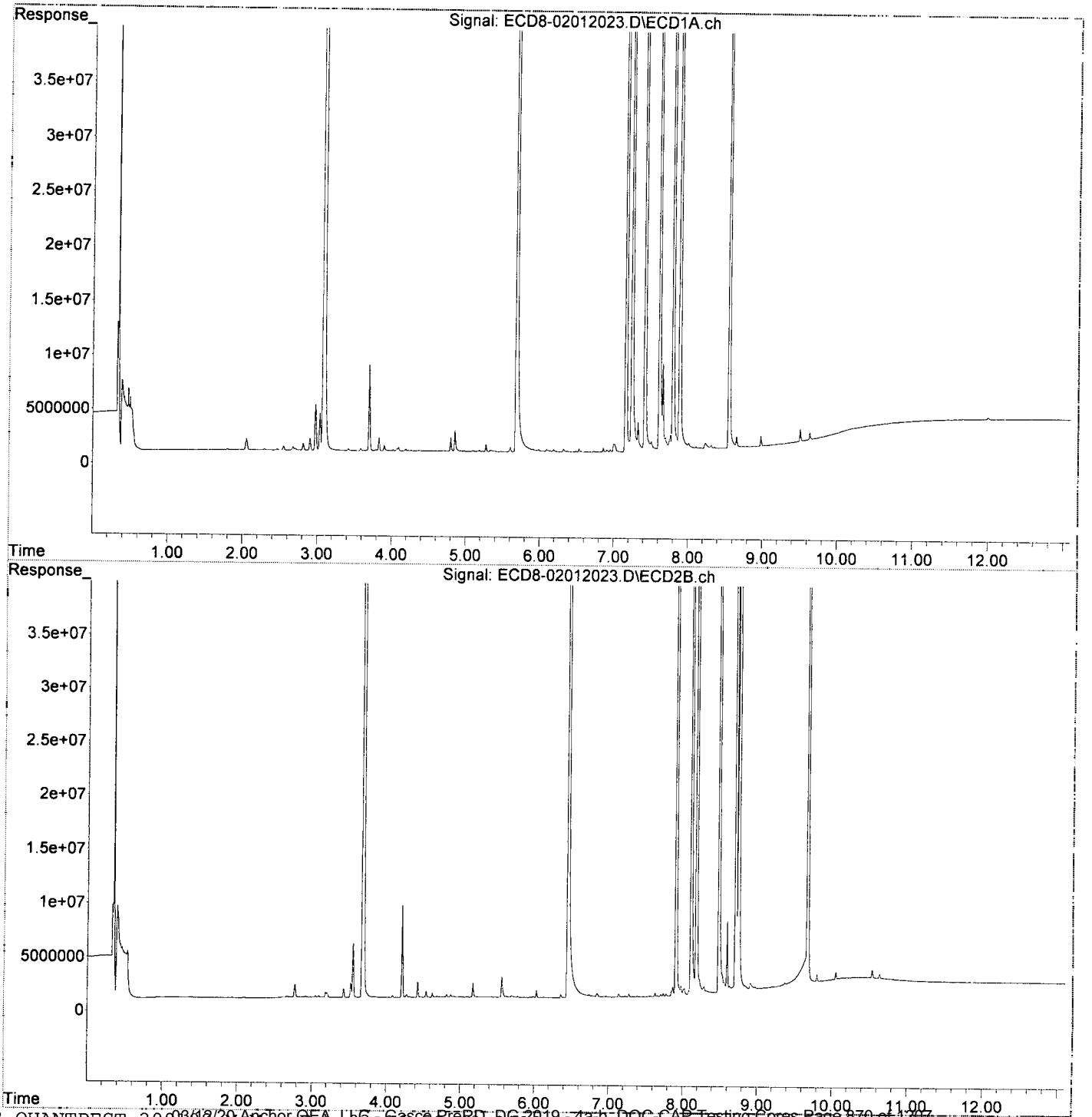
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.273f	5.983	681545	104717	0.195	0.030	#
22)	S	DCBP (S)	9.508	10.537	1256804	1267933	0.157	0.120	
		Target Compounds							
2)		a-BHC	5.837	0.000	374614	0	0.079	N.D.	#
3)		g-BHC	6.138	6.931f	45065	89708	0.011	0.065	#
4)		b-BHC	6.186	6.971	172901	114755	0.099	0.066	#
5)		Heptachlor	6.529	7.275	322869	310060	0.079	0.074	
6)		d-BHC	6.319f	7.227	263775	105240	0.183	0.128	#
7)		Aldrin	6.768	7.558	20849	77251	0.005	0.033	#
8)		Heptachlo...	7.239	7.977	223.0E6	906878	60.400	0.253	#
9)		trans-Chl...	7.325	8.110	2691889	238.4E6	0.716	64.125	#
10)		cis-Chlor...	7.415	0.000	344.0E6	0	93.675	N.D.	#
11)		Endosulfa...	7.504	8.287	863087	682627	0.249	0.207	
12)		4,4'-DDE	7.504	0.000	863087	0	0.260	N.D.	#
13)		Dieldrin	7.694	8.484	1164282	195.5E6	0.305	51.969	#
14)		Endrin	7.885f	8.708	379.3E6	253.6E6	116.233	78.307	#
15)		4,4'-DDD	7.885f	8.748	379.3E6	398.9E6	149.055	127.265	
16)		Endosulfa...	8.009	8.851	576299	460137	0.193	0.144	#
17)		4,4'-DDT	8.110	8.974	227388	354632	0.085	0.119	#
18)		Endrin Al...	8.296	9.091	137967	218650	0.052	0.083	#
19)		Endosulfa...	0.000	9.284	0	311998	N.D.	0.036	#
20)		Methoxychlor	8.466	0.000	13853	0	0.011	N.D.	#
21)		Endrin Ke...	8.798	9.674	67455	204.2E6	0.020	64.560	#
23)		Hexachlor...	3.081	3.681	351.0E6	469.1E6	90.046	96.874	
24)		Hexachlor...	5.679	6.448	320.6E6	327.6E6	95.359	97.177	
25)		Oxychlordane	7.158	7.907	299.8E6	312.8E6	96.097	97.799	
26)		2,4'-DDE	7.239	8.110	223.0E6	238.4E6	96.469	104.901	
27)		trans-Non...	7.415	8.181	344.0E6	367.6E6	93.831	101.831	
28)		2,4'-DDD	7.611	8.484	188.9E6	195.5E6	97.532	102.152	
29)		2,4'-DDT	7.794	8.708	229.9E6	253.6E6	96.052	100.011	
30)		cis-Nonac...	7.885	8.748	379.3E6	398.9E6	93.217	100.107	
31)		Mirex	8.551	9.674	232.7E6	204.2E6	97.034	93.726	
32)		Chlordane...	7.325	8.110	2691889	238.4E6	6.722	548.802	#
33)		Chlordane...	7.415	0.000	344.0E6	0	707.341	N.D.	#
34)		Chlordane...	0.000	8.910f	0	734821	N.D.	6.188	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.415	8.484f	344.0E6	195.5E6	21014.795	6635.699	#
37)		Toxaphene...	7.694	0.000	1164282	0	37.061	N.D.	#
38)		Toxaphene...	8.009	8.851	576299	460137	5.027	7.112	#
39)		Toxaphene...	8.235	8.910	520931	734821	1.089	3.456	#
40)		Toxaphene...	8.466	9.091	13853	218650	0.256	3.814	#
41)		Toxaphene...	8.551	0.000	232.7E6	0	3060.097	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

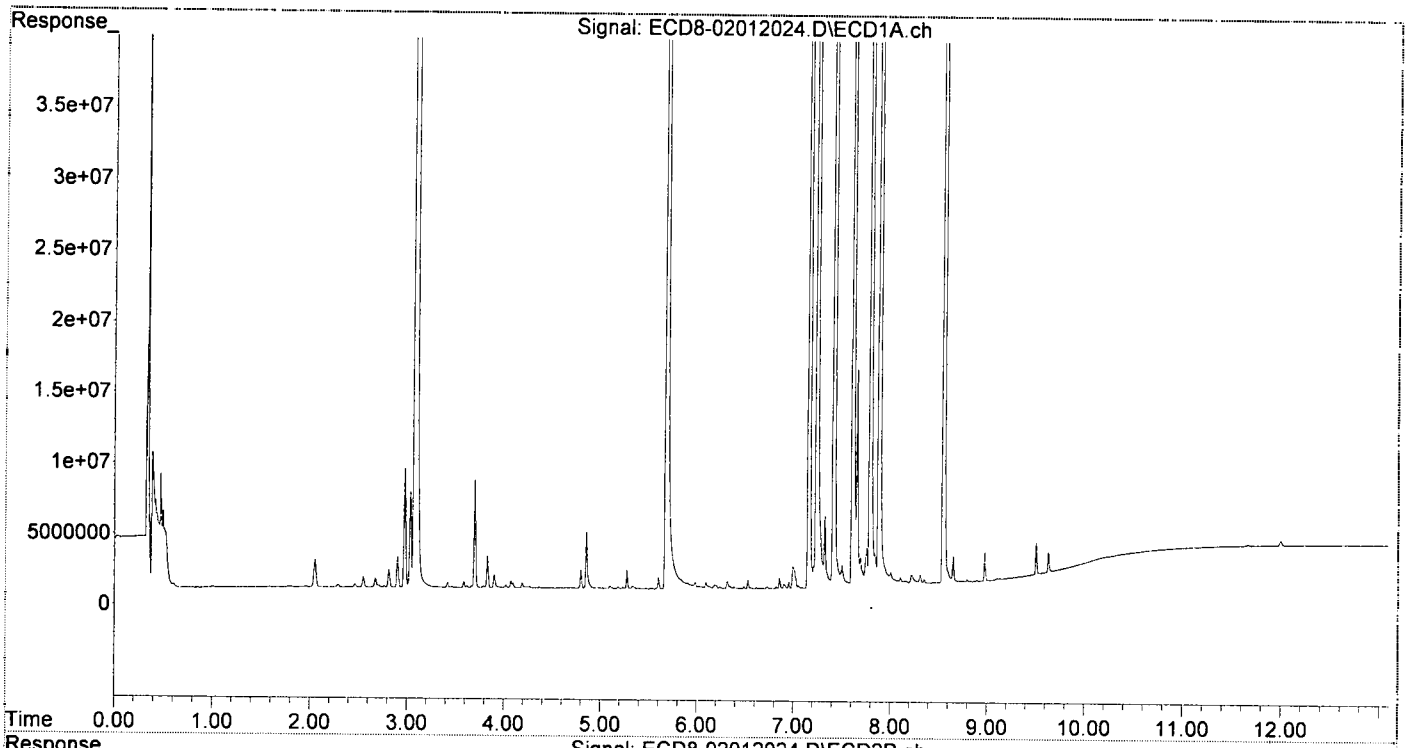
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.273f	5.979	1304536	82402	0.373	0.024	#
22)	S DCBP (S)	9.506	10.535	2233814	2678724	0.540	0.818	#
	Target Compounds							
2)	a-BHC	5.833	0.000	700515	0	0.148	N.D.	#
3)	g-BHC	6.117	6.904	203946	144858	0.049	0.079	#
4)	b-BHC	6.199	6.967	250195	234291	0.144	0.135	
5)	Heptachlor	6.528	7.274	650259	607091	0.158	0.144	
6)	d-BHC	6.347	7.224	167146	248468	0.155	0.168	
7)	Aldrin	6.768	7.551	62352	176516	0.015	0.059	#
8)	Heptachlo...	7.238	7.976	482.9E6	1706342	130.754	0.475	#
9)	trans-Chl...	7.324	8.109	5059668	534.7E6	1.345	143.794	#
10)	cis-Chlor...	7.415	8.223	728.0E6	2252124	198.236	0.639	#
11)	Endosulfa...	7.502	8.286	1539983	1482912	0.444	0.449	
12)	4,4'-DDE	7.502	8.324	1539983	554799	0.464	0.266	#
13)	Dieldrin	7.693	8.483	2009203	469.3E6	0.527	114.904	#
14)	Endrin	7.844	8.707	2157901	583.6E6	0.661	160.991	#
15)	4,4'-DDD	7.884f	8.747	835.6E6	936.1E6	328.347	242.433	#
16)	Endosulfa...	8.008	8.853	873285	1023893	0.292	0.358	
17)	4,4'-DDT	8.108	8.973	498317	837452	0.185	0.316	#
18)	Endrin Al...	8.312	9.091	664130	693413	0.252	0.262	
19)	Endosulfa...	0.000	9.282	0	830775	N.D.	0.243	#
20)	Methoxychlor	8.454	0.000	71534	0	0.059	N.D.	#
21)	Endrin Ke...	8.797	9.673	169181	479.6E6	0.049	135.887	#
23)	Hexachlor...	3.081	3.681	752.3E6	1068.1E6	192.979	220.589	
24)	Hexachlor...	5.679	6.449	700.2E6	782.5E6	208.297	200.388	
25)	Oxychlordane	7.157	7.907	643.7E6	730.3E6	203.252	228.367	
26)	2,4'-DDE	7.238	8.109	482.9E6	534.7E6	208.837	235.231	
27)	trans-Non...	7.415	8.181	728.0E6	810.4E6	198.564	224.514	
28)	2,4'-DDD	7.610	8.483	416.9E6	469.3E6	215.266	245.182	
29)	2,4'-DDT	7.792	8.707	502.1E6	583.6E6	209.798	198.781	
30)	cis-Nonac...	7.884	8.747	835.6E6	936.1E6	205.344	234.897	
31)	Mirex	8.550	9.673	487.2E6	479.6E6	206.142	208.232	
32)	Chlordane...	7.324	8.109	5059668	534.7E6	12.634	1230.638	#
33)	Chlordane...	7.415	8.223	728.0E6	2252124	1496.878	6.195	#
34)	Chlordane...	0.000	8.906	0	1179129	N.D.	9.929	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.415	8.435	728.0E6	319855	44471.567	10.854	#
37)	Toxaphene...	7.693	8.829f	2009203	1065509	63.956	26.512	#
38)	Toxaphene...	8.008	8.829	873285	1065509	9.247	16.469	#
39)	Toxaphene...	8.223f	8.906	651403	1179129	3.100	8.073	#
40)	Toxaphene...	8.454	9.091	71534	693413	1.320	12.095	#
41)	Toxaphene...	8.550	0.000	487.2E6	0	6406.202	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

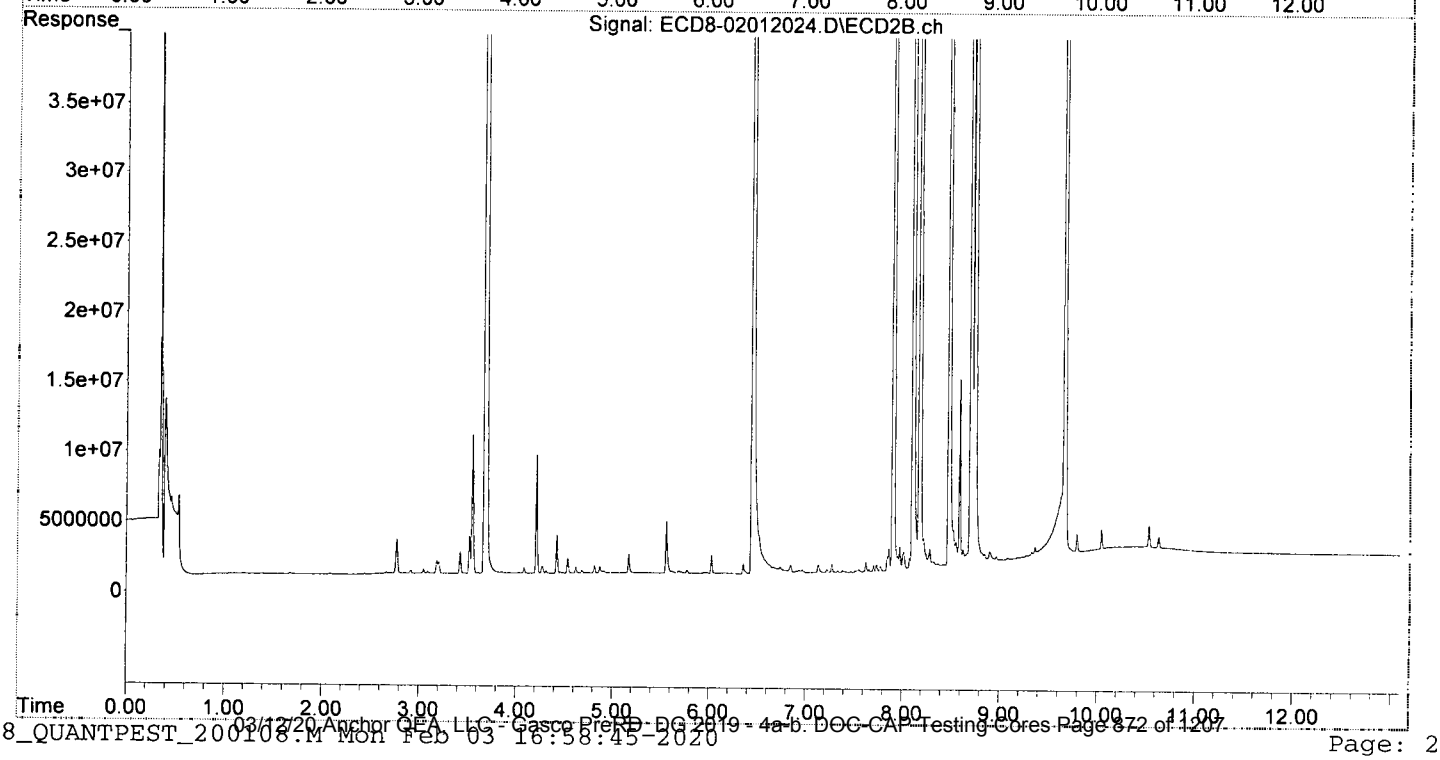
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

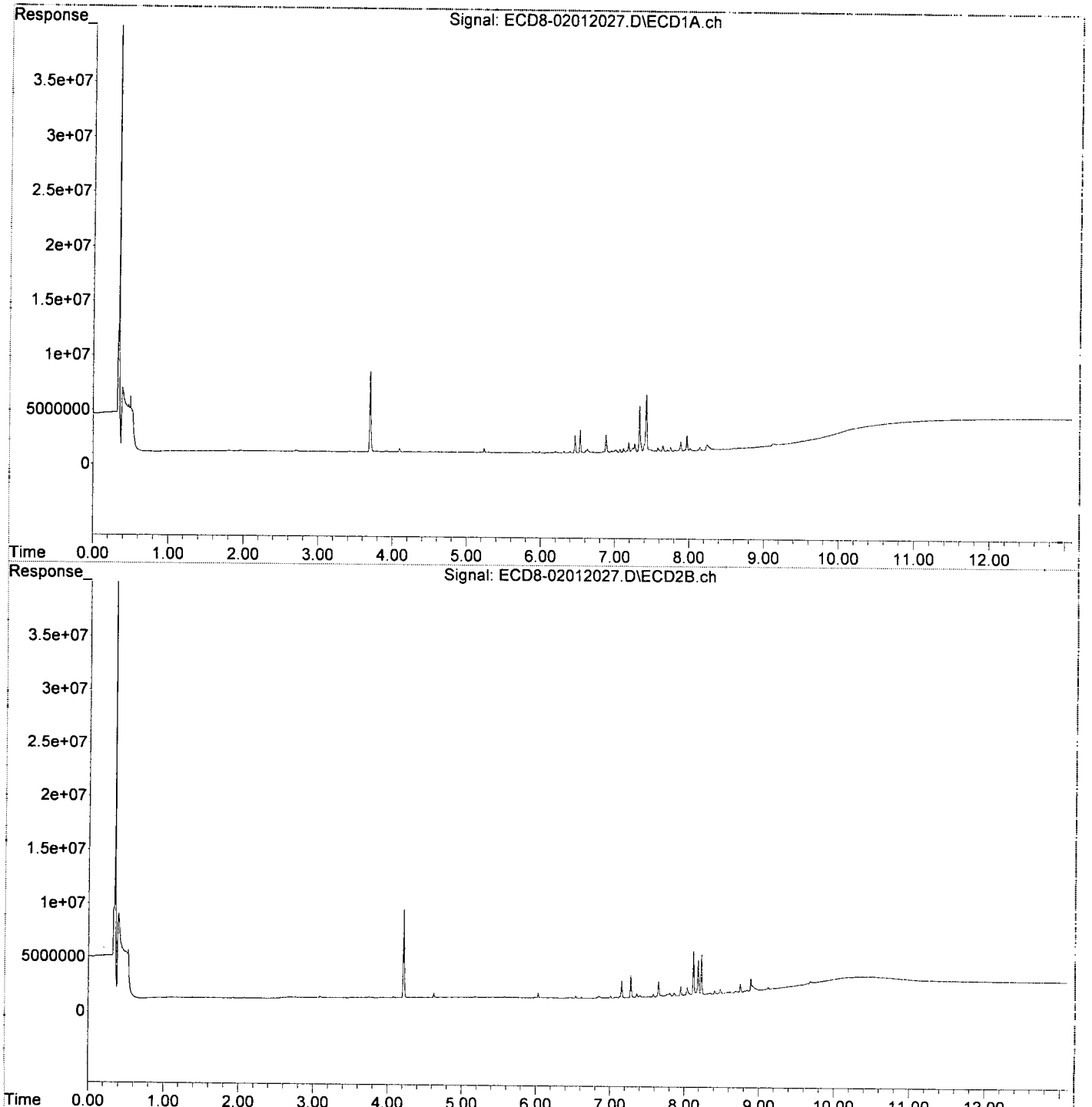
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.983	37371	62991	0.011	0.018	#
22)	S DCBP (S)	9.509	10.536	201674	561115	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.846	6.611f	24343	115221	0.005	0.103	#
3)	g-BHC	6.091f	6.912	65256	42857	0.016	0.053	#
4)	b-BHC	6.192	6.975	131243	9022	0.075	0.005	#
5)	Heptachlor	6.530	7.275	2107581	2035440	0.513	0.483	
6)	d-BHC	6.344	7.226	18860	19583	0.112	0.103	
7)	Aldrin	6.771	7.544	16577	11449	0.004	0.015	#
8)	Heptachlo...	7.242	7.998	419725	96230	0.114	0.027	#
9)	trans-Chl...	7.328	8.118	4222162	4084683	1.123	1.099	
10)	cis-Chlor...	7.421	8.226	5231315	3718290	1.425	1.056	#
11)	Endosulfa...	7.496f	8.299f	160618	53549	0.046	0.016	#
12)	4,4'-DDE	7.496	8.324	160618	95889	0.048	0.119	#
13)	Dieldrin	7.706	8.480	150581	430611	0.039	0.155	#
14)	Endrin	7.847	8.703	61204	105733	0.019	0.029	#
15)	4,4'-DDD	7.919	8.749	40077	799079	0.016	0.385	#
16)	Endosulfa...	8.010	8.866	225869	100611	0.076	0.008	#
17)	4,4'-DDT	8.113	9.005f	70129	131307	0.026	0.028	
18)	Endrin Al...	8.302	9.091	112075	133185	0.043	0.050	
19)	Endosulfa...	8.609	9.286	82500	173859	0.029	BelowCal	#
20)	Methoxychlor	8.453	9.468	39001	252366	0.032	BelowCal	#
21)	Endrin Ke...	8.801	9.683	28305	567675	0.008	BelowCal	#
23)	Hexachlor...	3.091	3.698	34892	72700	0.009	0.015	#
24)	Hexachlor...	5.679	6.452	35544	42391	0.011	BelowCal	#
25)	Oxychlordane	7.160	7.922	206052	36715	BelowCal	0.011	
26)	2,4'-DDE	7.242	8.118	419725	4084683	0.182	1.797	#
27)	trans-Non...	7.421	8.182	5231315	3231178	1.427	0.895	#
28)	2,4'-DDD	7.620	8.480	55279	430611	0.029	0.225	#
29)	2,4'-DDT	7.815f	8.703	116578	105733	0.049	0.000	#
30)	cis-Nonac...	7.886	8.749	866535	799079	0.213	0.201	
31)	Mirex	8.553	9.683	31646	567675	8199.116	0.022	#
32)	Chlordane...	7.328	8.118	4222162	4084683	10.543	9.401	
33)	Chlordane...	7.421	8.226	5231315	3718290	10.757	10.228	
34)	Chlordane...	7.968	8.889	1477991	1246903	11.352	10.500	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.393	8.438	748729	25541	45.740	0.867	#
37)	Toxaphene...	7.706	8.806	150581	119727	4.793	2.979	#
38)	Toxaphene...	8.010	8.836	225869	193404	0.049	2.989	#
39)	Toxaphene...	8.240	8.914	513164	548095	0.969	1.515	#
40)	Toxaphene...	8.475	9.091	17982	133185	0.332	2.323	#
41)	Toxaphene...	8.553	9.468	31646	252366	0.416	3.821	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

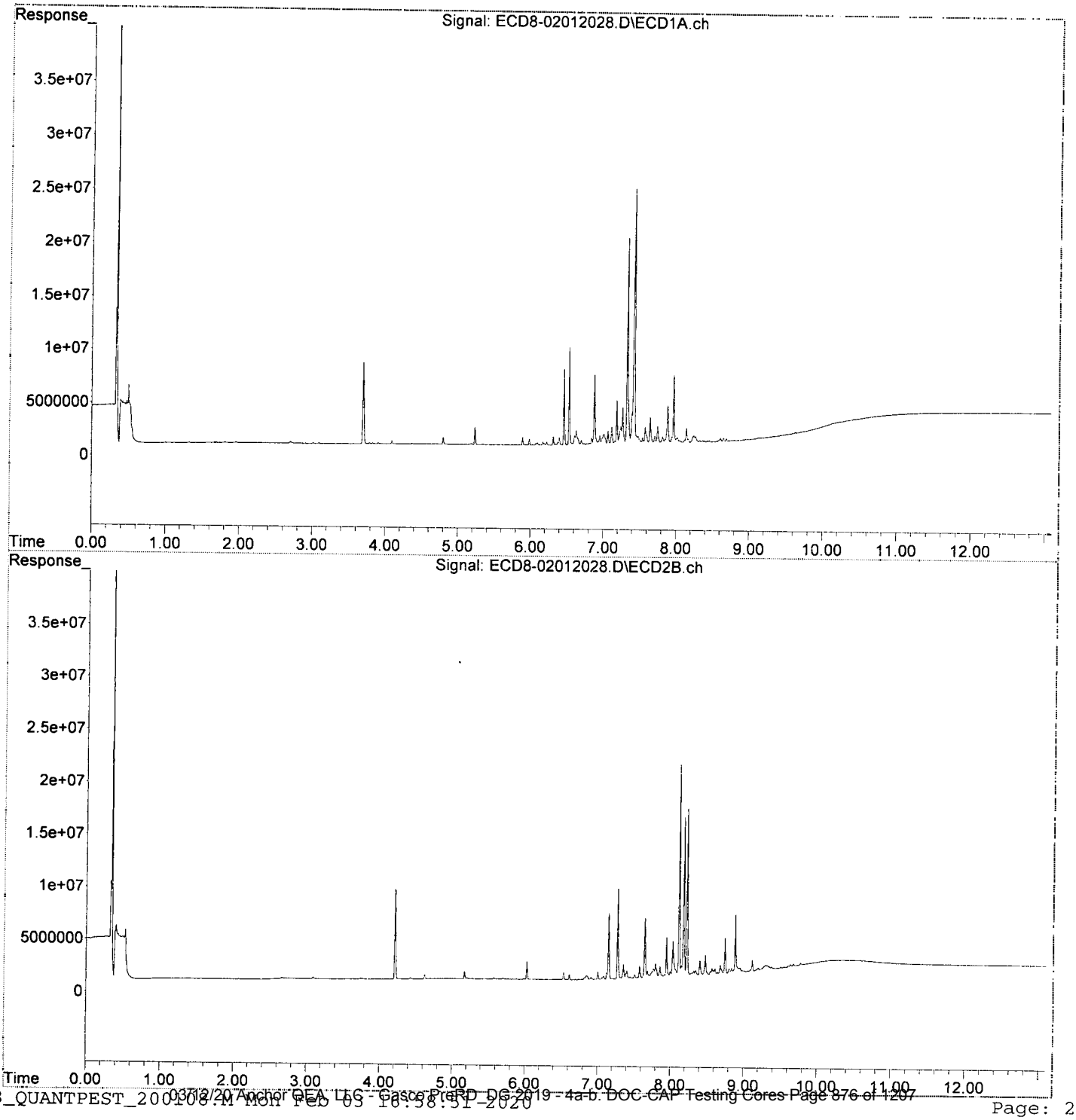
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.987	0	80767	N.D.	0.023	#
22)	S DCBP (S)	9.510	10.540	186477	988312	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.843	6.611f	34117	507112	0.007	0.195	#
3)	g-BHC	6.138	6.911	45252	221321	0.011	0.099	#
4)	b-BHC	6.191	7.004f	172351	727005	0.099	0.419	#
5)	Heptachlor	6.530	7.275	9157180	8589063	2.228	2.040	
6)	d-BHC	6.341	7.223	91148	33385	0.133	0.107	
7)	Aldrin	6.773	7.510f	77130	341414	0.019	0.103	#
8)	Heptachlo...	7.241	7.998	1647301	548429	0.446	0.153	#
9)	trans-Chl...	7.327	8.119	19331862	20134199	5.141	5.415	
10)	cis-Chlor...	7.421	8.226	23846059	15910016	6.494	4.516	#
11)	Endosulfa...	7.540f	8.298f	550631	346159	0.159	0.105	#
12)	4,4'-DDE	7.477	8.321	688155	520445	0.207	0.255	
13)	Dieldrin	7.706	8.478	680405	2005172	0.178	0.605	#
14)	Endrin	7.846	8.721	347516	319957	0.106	0.104	
15)	4,4'-DDD	7.885f	8.748	3528543	3553430	1.386	1.559	
16)	Endosulfa...	8.017	8.864	468453	520859	0.157	0.167	
17)	4,4'-DDT	8.142f	8.984	1378170	395270	0.513	0.136	#
18)	Endrin Al...	8.327f	9.061f	156187	346462	0.059	0.131	#
19)	Endosulfa...	8.609	9.310f	322890	828646	0.113	0.243	#
20)	Methoxychlor	8.453	9.417f	125281	534442	0.104	0.130	#
21)	Endrin Ke...	8.796	9.683	51993	887354	0.015	0.092	#
23)	Hexachlor...	3.088	3.701f	40987	32368	0.011	0.007	#
24)	Hexachlor...	5.655f	6.446	32910	29391	0.010	BelowCal	#
25)	Oxychlordane	7.157	7.921	305840	265124	BelowCal	0.083	
26)	2,4'-DDE	7.241	8.119	1647301	20134199	0.712	8.858	#
27)	trans-Non...	7.421	8.181	23846059	15111519	6.504	4.187	#
28)	2,4'-DDD	7.644f	8.478	2451266	2005172	1.266	1.047	
29)	2,4'-DDT	7.815f	8.721	559527	319957	0.234	0.101	#
30)	cis-Nonac...	7.885	8.748	3528543	3553430	0.867	0.892	
31)	Mirex	8.549	9.683	37685	887354	8199.113	0.176	#
32)	Chlordane...	7.327	8.119	19331862	20134199	48.272	46.341	
33)	Chlordane...	7.421	8.226	23846059	15910016	49.033	43.762	
34)	Chlordane...	7.967	8.889	6361865	5712561	48.863	48.104	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.392	8.438	2982328	236518	182.189	8.026	#
37)	Toxaphene...	7.706	8.805	680405	635837	21.658	15.821	#
38)	Toxaphene...	8.017	8.839	468453	689146	3.495	10.652	#
39)	Toxaphene...	8.243	8.889	609400	5712561	2.453	54.998	#
40)	Toxaphene...	8.453	9.061	125281	346462	2.311	6.043	#
41)	Toxaphene...	8.549	0.000	37685	0	0.496	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

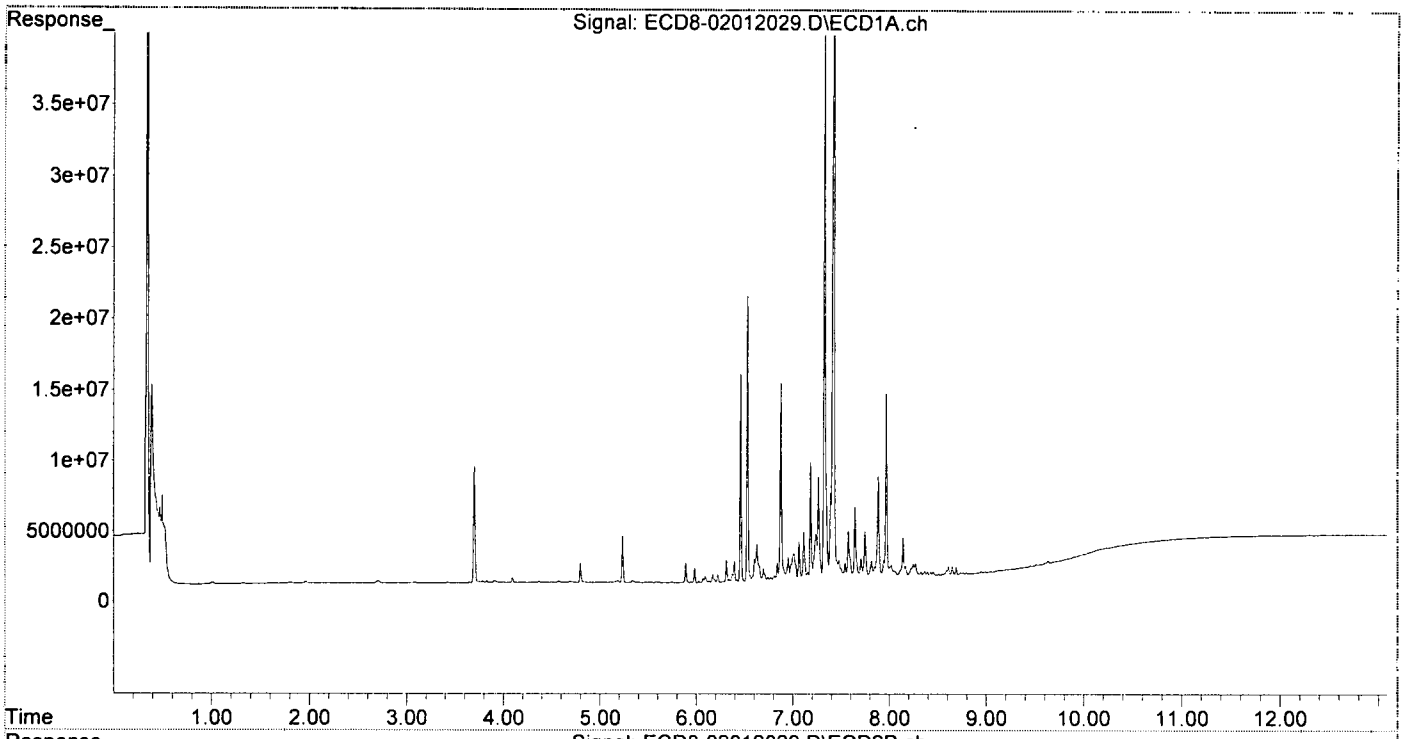
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.296	5.981	18285	139852	0.005	0.041	#
22)	S DCBP (S)	9.511	10.548	233812	955797	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.836	6.559f	40233	71861	0.009	0.093	#
3)	g-BHC	6.137	6.910	63520	453479	0.015	0.158	#
4)	b-BHC	6.187	7.003f	199442	1492404	0.115	0.860	#
5)	Heptachlor	6.528	7.274	20207396	18318616	4.917	4.350	
6)	d-BHC	6.339	7.224	174122	50713	0.157	0.112	#
7)	Aldrin	6.772	7.553	226592	217485	0.056	0.070	#
8)	Heptachlo...	7.241	7.998	3250852	1031319	0.880	0.287	#
9)	trans-Chl...	7.326	8.118	40982018	43332192	10.898	11.653	
10)	cis-Chlor...	7.420	8.225	50068645	35221978	13.634	9.999	#
11)	Endosulfa...	7.497f	8.297f	736681	699574	0.212	0.212	
12)	4,4'-DDE	7.497	8.321	736681	1037434	0.222	0.421	#
13)	Dieldrin	7.705	8.478	1396635	4214502	0.366	1.234	#
14)	Endrin	7.845	8.721	786672	558747	0.241	0.187	
15)	4,4'-DDD	7.886f	8.748	7145830	6934194	2.808	2.991	
16)	Endosulfa...	8.018	8.864	864677	919897	0.289	0.318	
17)	4,4'-DDT	8.087f	8.985	168344	497955	0.063	0.178	#
18)	Endrin Al...	8.327f	9.060f	300248	431257	0.114	0.163	#
19)	Endosulfa...	8.610	9.289	620034	357172	0.217	0.054	#
20)	Methoxychlor	8.452	9.458	275018	479698	0.228	0.079	#
21)	Endrin Ke...	8.795	9.683	93003	1040090	0.027	0.146	#
23)	Hexachlor...	3.084	3.681	60843	45754	0.016	0.009	#
24)	Hexachlor...	5.675	6.441	20347	54798	0.006	BelowCal	#
25)	Oxychlordane	7.154	7.920	536974	556603	BelowCal	0.174	
26)	2,4'-DDE	7.241	8.118	3250852	43332192	1.406	19.064	#
27)	trans-Non...	7.420	8.181	50068645	32197131	13.657	8.920	#
28)	2,4'-DDD	7.644f	8.478	5091456	4214502	2.629	2.202	
29)	2,4'-DDT	7.813f	8.721	1174381	558747	0.491	0.213	#
30)	cis-Nonac...	7.886	8.748	7145830	6934194	1.756	1.740	
31)	Mirex	8.547	9.683	65030	1040090	8199.102	0.250	#
32)	Chlordane...	7.326	8.118	40982018	43332192	102.332	99.734	
33)	Chlordane...	7.420	8.225	50068645	35221978	102.952	96.882	
34)	Chlordane...	7.968	8.889	13031823	11647984	100.093	98.084	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.392	8.478f	6131421	4214502	374.566	143.015	#
37)	Toxaphene...	7.705	8.804	1396635	1182984	44.457	29.436	#
38)	Toxaphene...	8.000	8.840	701406	1251261	6.805	19.341	#
39)	Toxaphene...	8.245	8.889	862024	11647984	6.347	115.948	#
40)	Toxaphene...	8.452	9.060f	275018	431257	5.074	7.522	#
41)	Toxaphene...	8.547	9.458	65030	479698	0.855	7.262	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

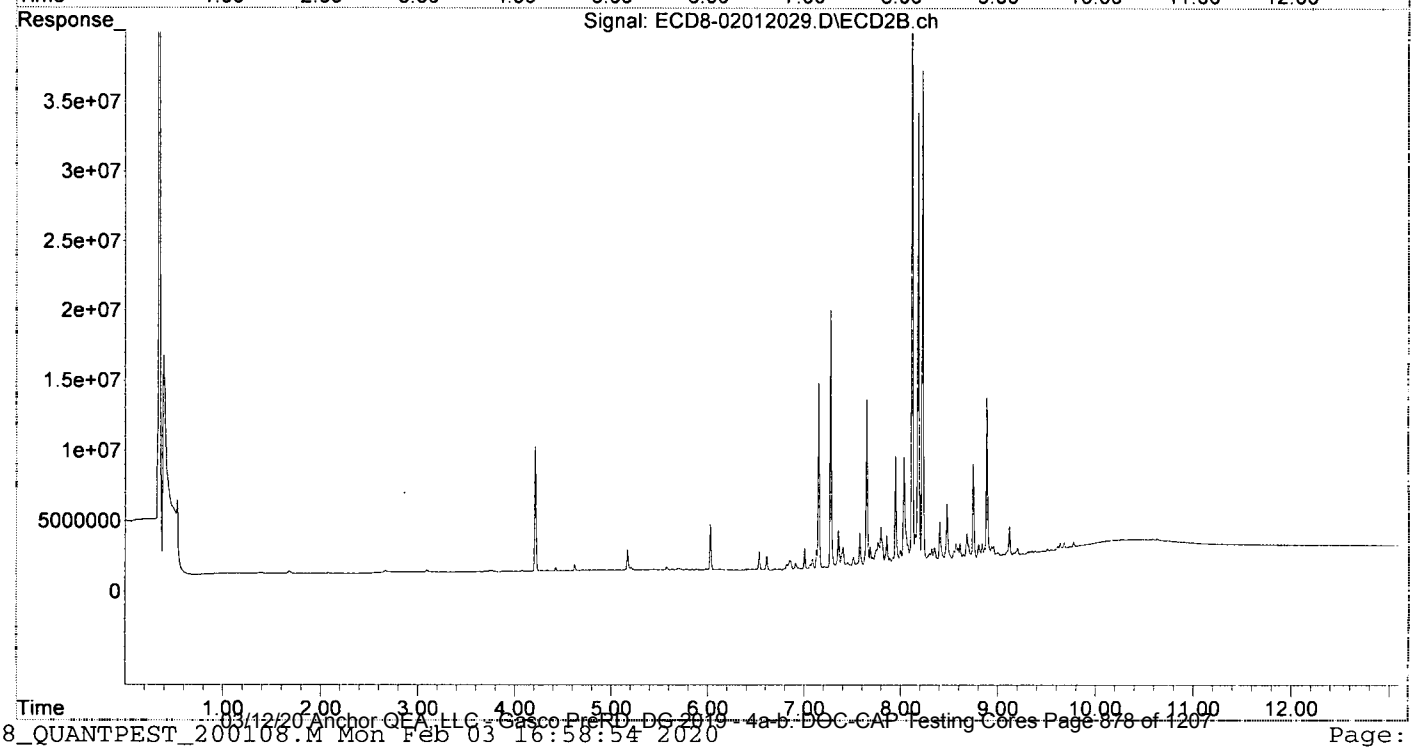
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

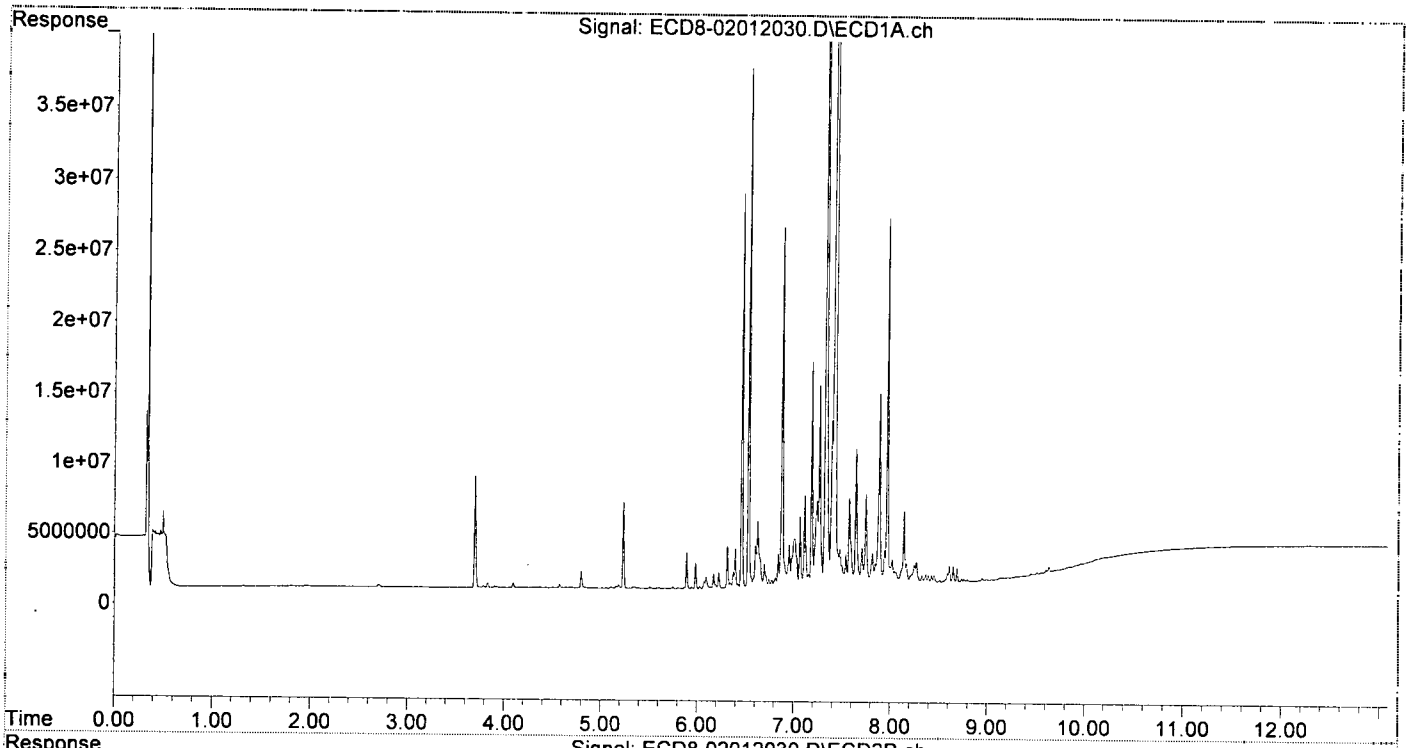
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.985	47307	82645	0.014	0.024	#
22)	S	DCBP (S)	9.511	10.540	261414	1006590	BelowCal	BelowCal	
		Target Compounds							
2)		a-BHC	5.844	6.612f	28614	1618187	0.006	0.455	#
3)		g-BHC	6.136	6.911	96732	803515	0.023	0.248	#
4)		b-BHC	6.188	7.004f	236177	2646179	0.136	1.524	#
5)		Heptachlor	6.529	7.275	36635645	36599791	8.914	8.692	
6)		d-BHC	6.339	7.208	360238	227832	0.211	0.163	
7)		Aldrin	6.772	7.551	462178	409648	0.114	0.122	
8)		Heptachlo...	7.239	7.997	6047845	2063683	1.638	0.575	#
9)		trans-Chl...	7.326	8.118	79833983	83675101	21.229	22.503	
10)		cis-Chlor...	7.420	8.225	97470804	70682705	26.542	20.065	
11)		Endosulfa...	7.520	8.298f	852473	1384541	0.246	0.419	#
12)		4,4'-DDE	7.497	8.321	1403732	1966053	0.423	0.719	#
13)		Dieldrin	7.705	8.478	2595526	8029127	0.681	2.318	#
14)		Endrin	7.845	8.722	1495100	1090549	0.458	0.372	
15)		4,4'-DDD	7.885f	8.748	13532749	13519868	5.317	5.748	
16)		Endosulfa...	8.018	8.865	1716081	1735572	0.574	0.627	
17)		4,4'-DDT	8.141f	8.985	5103729	801564	1.899	0.301	#
18)		Endrin Al...	8.327f	9.060f	540492	666830	0.205	0.252	
19)		Endosulfa...	8.609	9.262	1134315	470085	0.396	0.099	#
20)		Methoxychlor	8.453	9.460	509291	551943	0.422	0.147	#
21)		Endrin Ke...	8.795	9.682	165163	1404203	0.048	0.275	#
23)		Hexachlor...	3.088	3.680	42365	7312	0.011	0.002	#
24)		Hexachlor...	5.670	6.467f	36523	59797	0.011	BelowCal	#
25)		Oxychlordane	7.154	7.921	828720	1106402	0.090	0.346	#
26)		2,4'-DDE	7.239	8.118	6047845	83675101	2.616	36.812	#
27)		trans-Non...	7.420	8.181	97470804	64146004	26.586	17.771	#
28)		2,4'-DDD	7.643f	8.478	9626732	8029127	4.970	4.194	
29)		2,4'-DDT	7.813f	8.722	2172447	1090549	0.908	0.463	#
30)		cis-Nonac...	7.885	8.748	13532749	13519868	3.325	3.393	
31)		Mirex	8.547	9.682	127683	1404203	8199.076	0.426	#
32)		Chlordane...	7.326	8.118	79833983	83675101	199.346	192.589	
33)		Chlordane...	7.420	8.225	97470804	70682705	200.422	194.421	
34)		Chlordane...	7.967	8.889	25873455	22148725	198.725	186.507	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.391	8.478f	11738098	8029127	717.075	272.460	#
37)		Toxaphene...	7.705	8.804	2595526	2252914	82.619	56.058	#
38)		Toxaphene...	7.997	8.840	1230596	2268109	14.324	35.058	#
39)		Toxaphene...	8.245	8.889	1314715	22148725	13.325	222.465	#
40)		Toxaphene...	8.453	9.060f	509291	666830	9.396	11.632	
41)		Toxaphene...	8.547	9.460	127683	551943	1.679	8.356	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

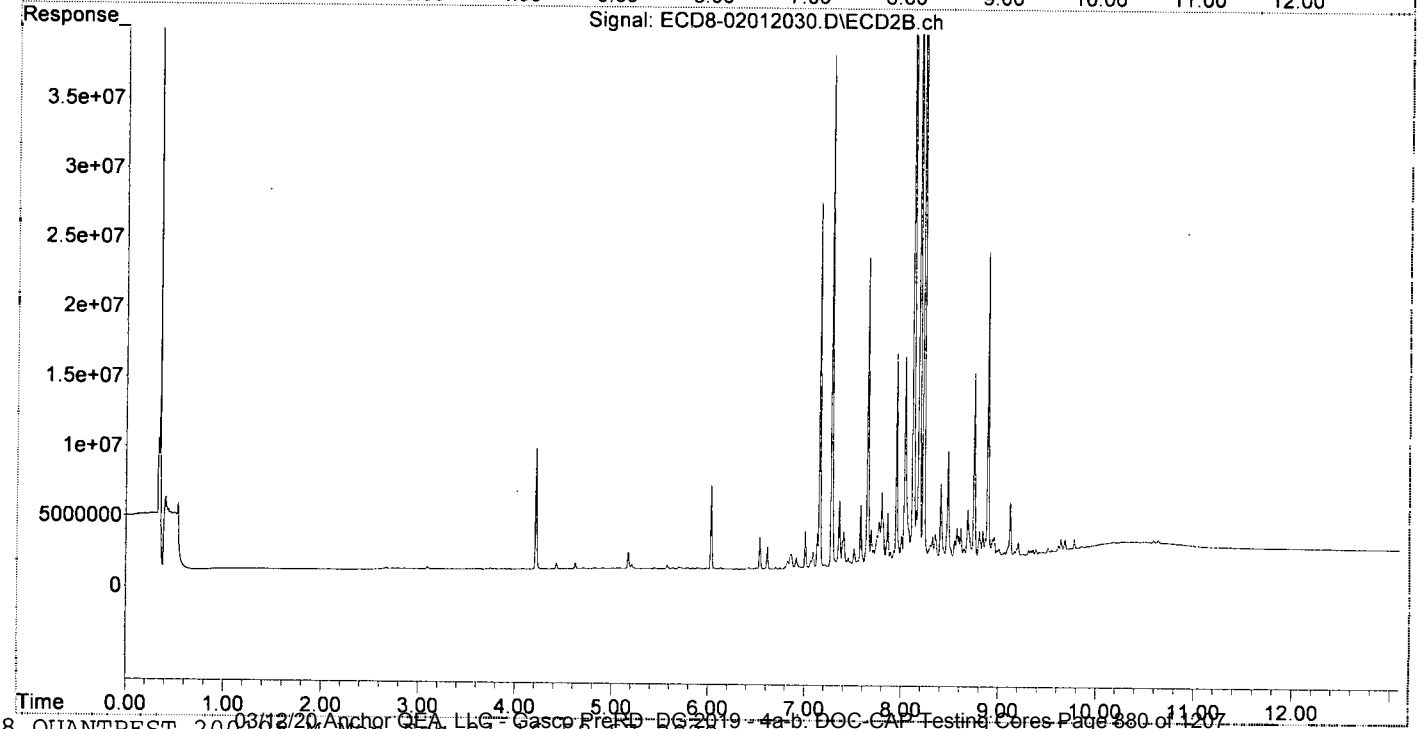
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

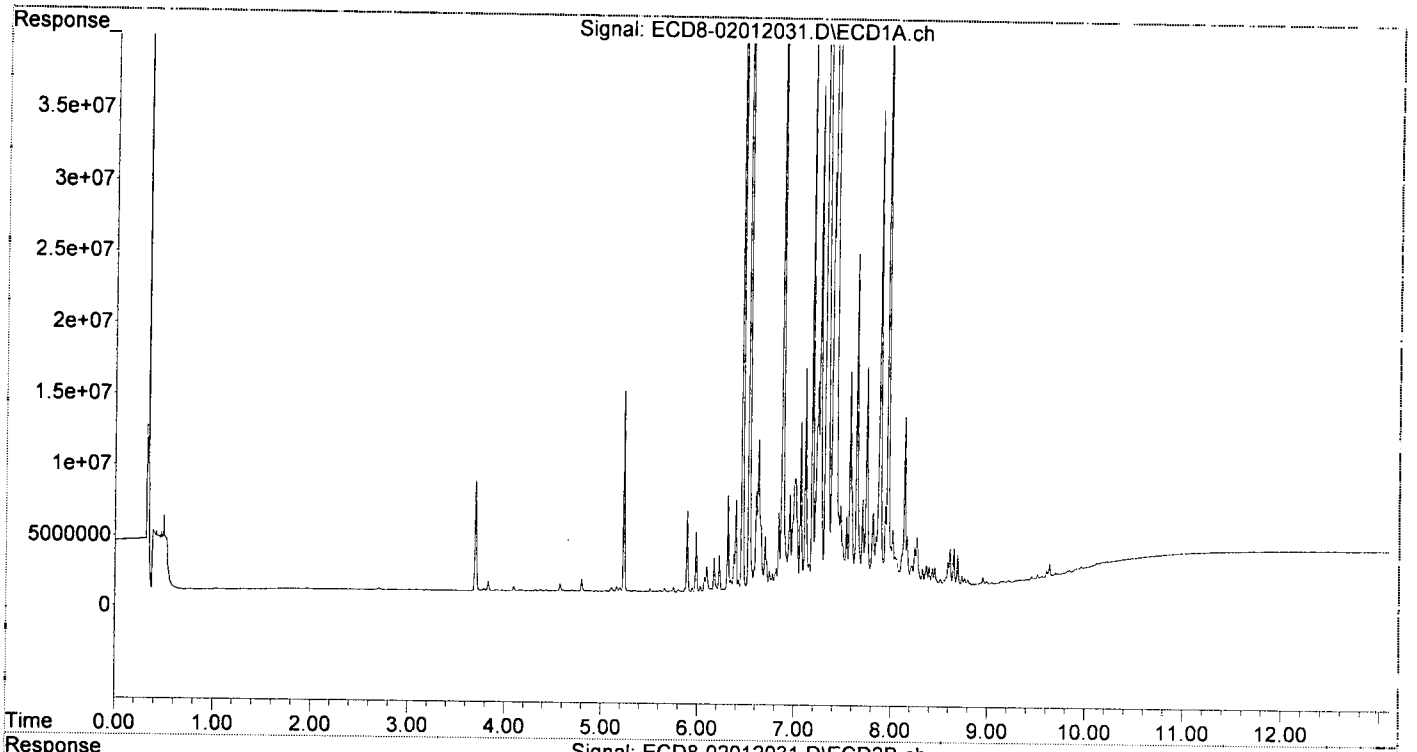
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.984	109867	106671	0.031	0.031	
22)	S	DCBP (S)	9.512	10.555	403486	1150905	BelowCal	0.062	
		Target Compounds							
2)		a-BHC	5.842	6.611f	42377	3578554	0.009	0.913	#
3)		g-BHC	6.136	6.911	205837	1873297	0.049	0.522	#
4)		b-BHC	6.222f	7.003f	2546716	6255390	1.462	3.603	#
5)		Heptachlor	6.529	7.275	90317006	93074444	21.975	22.104	
6)		d-BHC	6.339	7.208	792770	548028	0.336	0.254	
7)		Aldrin	6.772	7.544	1162442	975925	0.288	0.273	
8)		Heptachlo...	7.240	7.997	14641114	4963440	3.965	1.383	#
9)		trans-Chl...	7.326	8.117	194.2E6	218.0E6	51.650	58.620	
10)		cis-Chlor...	7.419	8.225	234.2E6	182.0E6	63.770	51.657	
11)		Endosulfa...	7.518	8.297	2055816	3534365	0.593	1.069	#
12)		4,4'-DDE	7.497	8.320	3139123	4767148	0.945	1.616	#
13)		Dieldrin	7.705	8.478	6264702	20031674	1.643	5.708	#
14)		Endrin	7.845	8.721	3653470	2598641	1.119	0.896	
15)		4,4'-DDD	7.885f	8.748	33602500	33177553	13.203	13.752	
16)		Endosulfa...	8.018	8.864	4049327	4007404	1.354	1.486	
17)		4,4'-DDT	8.086f	8.985	1101022	1752843	0.410	0.689	#
18)		Endrin Al...	8.326f	9.061f	1266260	1526727	0.481	0.577	
19)		Endosulfa...	8.609	9.286	2599391	679252	0.908	0.183	#
20)		Methoxychlor	8.452	9.460	1320684	852256	1.095	0.430	#
21)		Endrin Ke...	8.795	9.682	396697	2481189	0.115	0.657	#
23)		Hexachlor...	3.091	3.701f	44969	25180	0.012	0.005	#
24)		Hexachlor...	5.656f	6.467f	280051	54827	0.083	BelowCal	#
25)		Oxychlordane	7.151	7.920	1812015	2689234	0.410	0.841	#
26)		2,4'-DDE	7.240	8.117	14641114	218.0E6	6.332	95.897	#
27)		trans-Non...	7.419	8.181	234.2E6	164.1E6	63.876	45.459	#
28)		2,4'-DDD	7.643f	8.478	23582099	20031674	12.176	10.464	
29)		2,4'-DDT	7.813	8.721	5289165	2598641	2.210	1.169	#
30)		cis-Nonac...	7.885	8.748	33602500	33177553	8.257	8.325	
31)		Mirex	8.547	9.682	428754	2481189	8198.952	0.947	#
32)		Chlordane...	7.326	8.117	194.2E6	218.0E6	485.002	501.695	
33)		Chlordane...	7.419	8.225	234.2E6	182.0E6	481.528	500.533	
34)		Chlordane...	7.966	8.889	61785001	58496819	474.548	492.582	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.391	8.478f	29361049	20031674	1793.654	679.755	#
37)		Toxaphene...	7.705	8.804	6264702	5397700	199.415	134.308	#
38)		Toxaphene...	7.996	8.840	2898693	5313123	38.033	82.124	#
39)		Toxaphene...	8.245	8.889	2776612	58496819	35.852	579.153	#
40)		Toxaphene...	8.452	9.061f	1320684	1526727	24.366	26.631	
41)		Toxaphene...	8.547	9.460	428754	852256	5.637	12.902	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

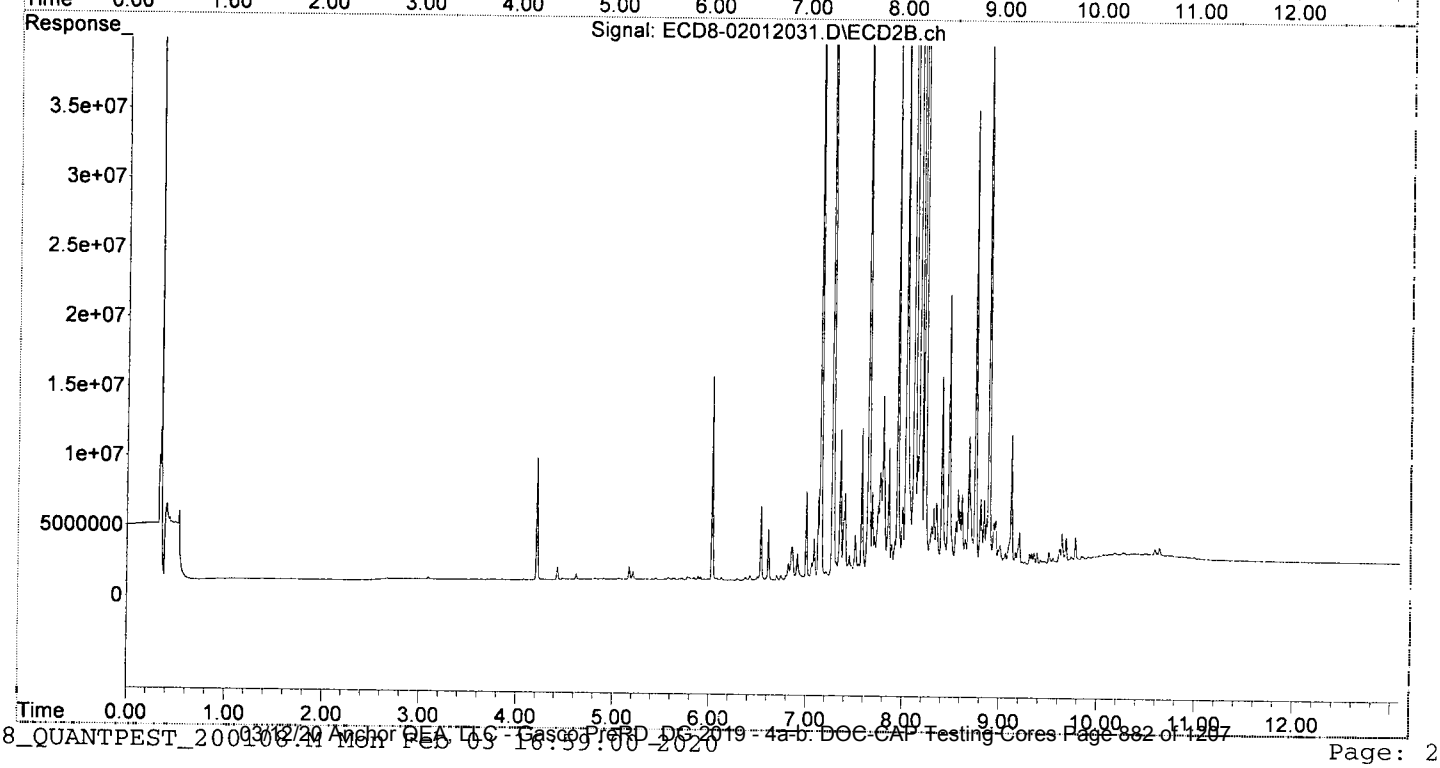
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

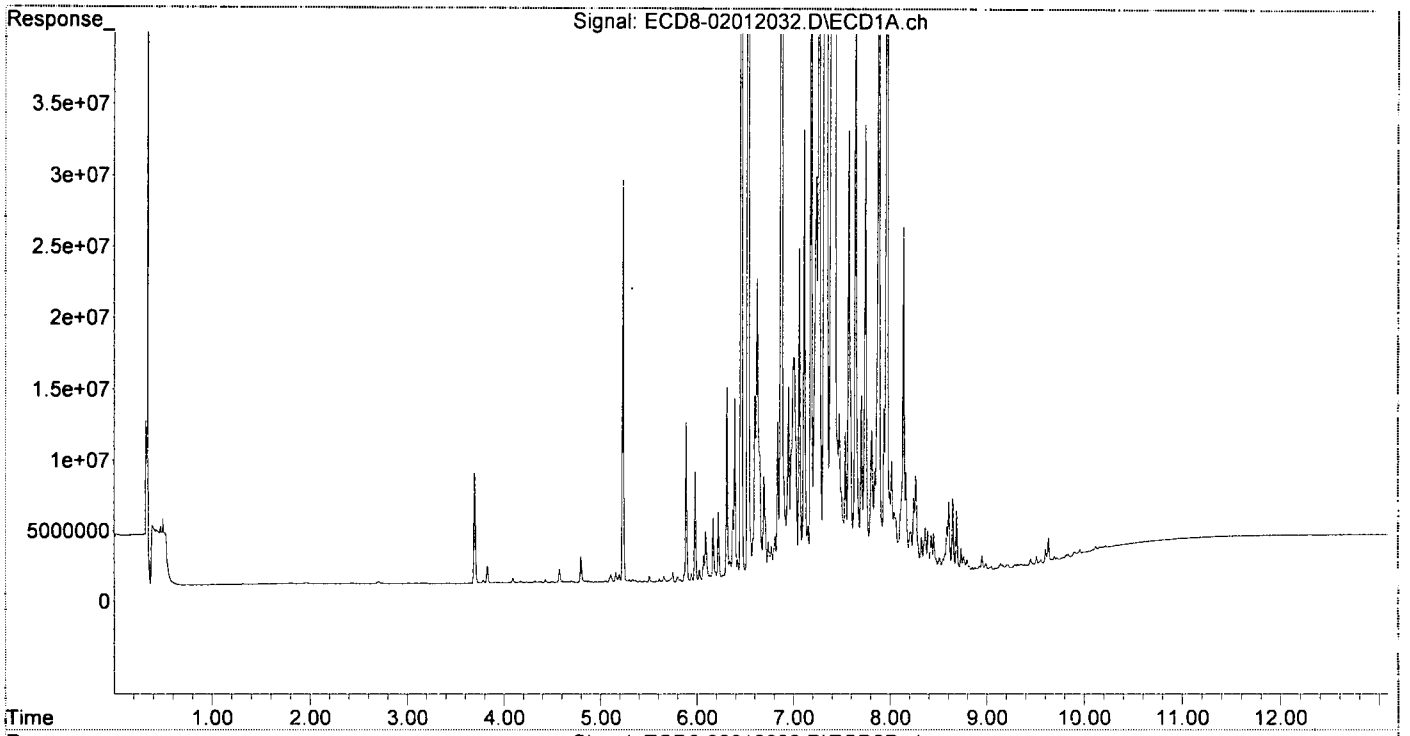
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.297	5.981	206224	122190	0.059	0.035	#
22)	S DCBP (S)	9.510	10.547	660494	961665	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.824	6.611f	187012	6740232	0.040	1.650	#
3)	g-BHC	6.136	6.910	387178	3574704	0.093	0.957	#
4)	b-BHC	6.221f	6.979	4874664	395853	2.799	0.228	#
5)	Heptachlor	6.529	7.274	183.6E6	195.9E6	44.674	46.522	
6)	d-BHC	6.339	7.226	1376061	611948	0.505	0.272	#
7)	Aldrin	6.770	7.546	2275193	1813532	0.563	0.496	
8)	Heptachlo...	7.238	7.997	28209573	9618764	7.639	2.680	#
9)	trans-Chl...	7.325	8.118	407.1E6	461.1E6	108.247	124.010	
10)	cis-Chlor...	7.419	8.226	468.0E6	384.8E6	127.430	109.237	
11)	Endosulfa...	7.516	8.298f	3909946	6920995	1.127	2.094	#
12)	4,4'-DDE	7.496	8.321	5965358	9206495	1.796	3.030	#
13)	Dieldrin	7.704	8.478	12680776	43861813	3.325	12.342	#
14)	Endrin	7.844	8.722	7267481	5105052	2.227	1.765	
15)	4,4'-DDD	7.885f	8.748	68409568	68082411	26.880	27.221	
16)	Endosulfa...	8.018	8.864	7933861	7721187	2.652	2.884	
17)	4,4'-DDT	8.140f	8.986	24425440	3056450	9.086	1.219	#
18)	Endrin Al...	8.326f	9.060f	2488539	2615287	0.945	0.989	
19)	Endosulfa...	8.609	9.285	4963470	861427	1.734	0.256	#
20)	Methoxychlor	8.452	9.466	2726788	1086967	2.260	0.652	#
21)	Endrin Ke...	8.794	9.682	781850	4108753	0.226	1.233	#
23)	Hexachlor...	3.071	3.699	14573	34979	0.004	0.007	#
24)	Hexachlor...	5.655f	6.464	402456	62089	0.120	BelowCal	#
25)	Oxychlordane	7.151	7.920	3627381	5233846	1.002	1.637	#
26)	2,4'-DDE	7.238	8.118	28209573	461.1E6	12.201	202.866	#
27)	trans-Non...	7.419	8.181	468.0E6	340.8E6	127.641	94.407	#
28)	2,4'-DDD	7.642f	8.478	50345506	43861813	25.994	22.913	
29)	2,4'-DDT	7.812	8.722	10255127	5105052	4.285	2.339	#
30)	cis-Nonac...	7.885	8.748	68409568	68082411	16.811	17.084	
31)	Mirex	8.547	9.682	918194	4108753	0.173	1.732	#
32)	Chlordane...	7.325	8.118	407.1E6	461.1E6	1016.452	1061.320	
33)	Chlordane...	7.419	8.226	468.0E6	384.8E6	962.225	1058.450	
34)	Chlordane...	7.966	8.890	126.5E6	118.8E6	971.773	1000.759	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.390	8.478f	56502268	43861813	3451.699	1488.407	#
37)	Toxaphene...	7.704	8.805	12680776	10263488	403.648	255.381	#
38)	Toxaphene...	7.995	8.840	5827238	10916602	79.685	168.736	#
39)	Toxaphene...	8.245	8.890	5284639	118.8E6	74.474	1135.609	#
40)	Toxaphene...	8.452	9.060f	2726788	2615287	50.308	45.619	
41)	Toxaphene...	8.547	9.466	918194	1086967	12.073	16.456	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

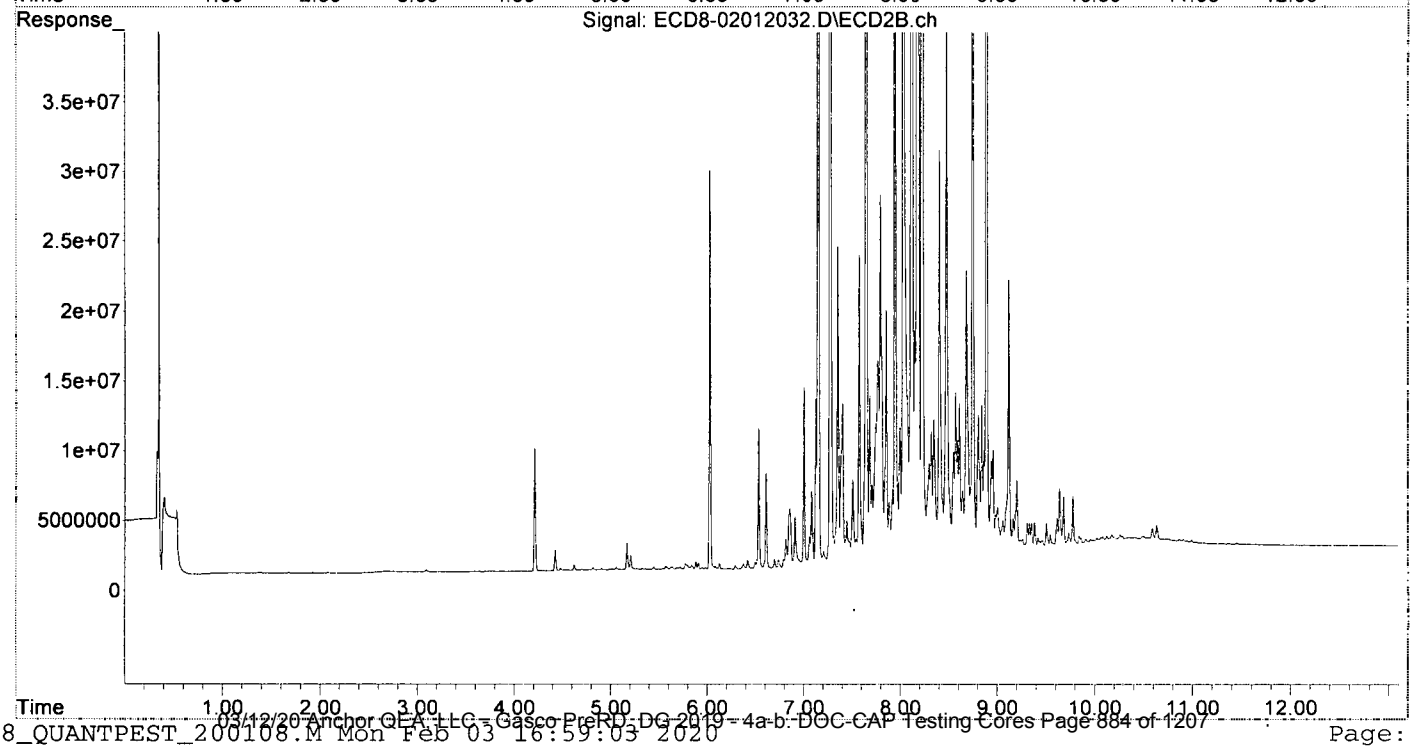
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

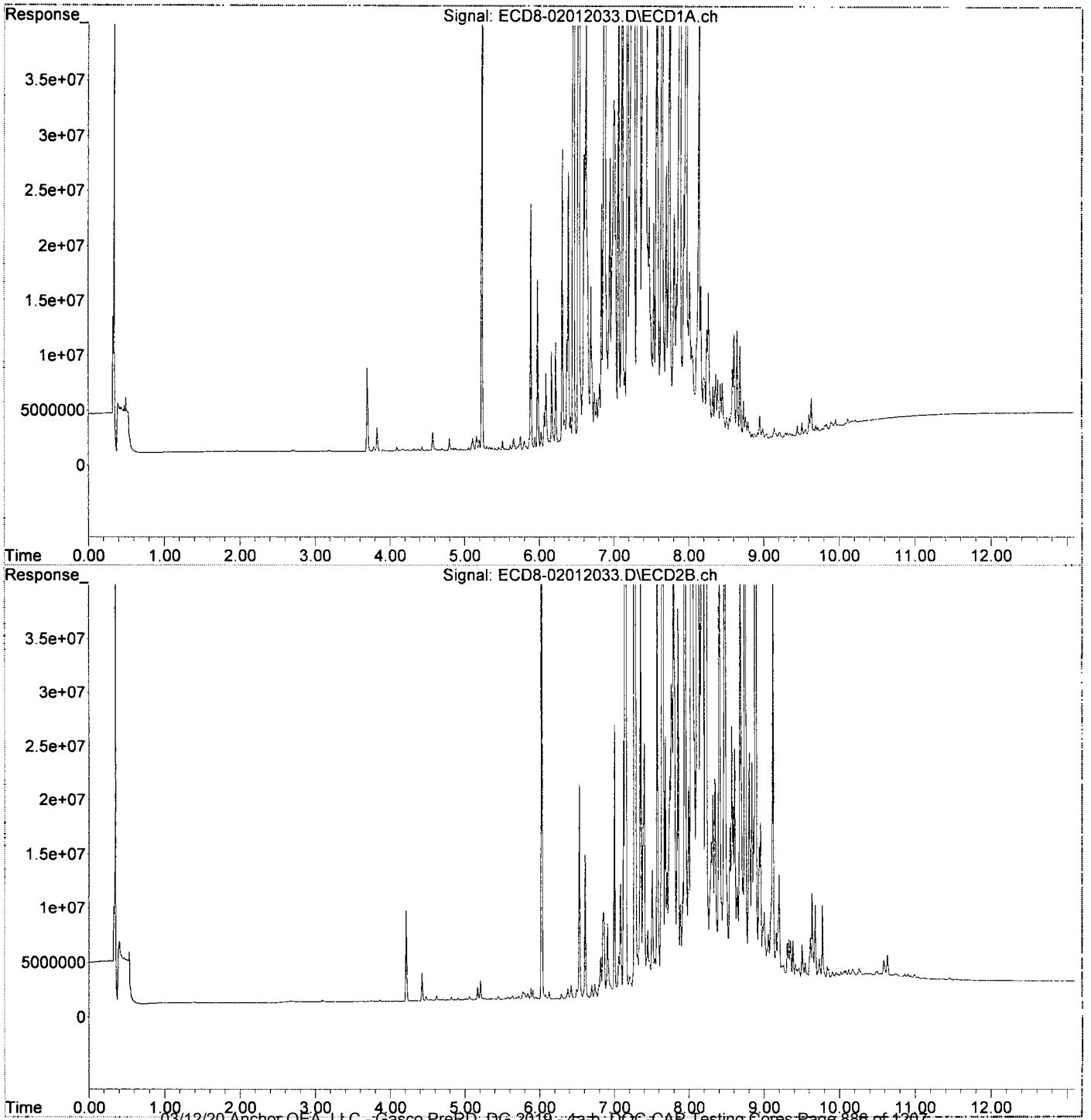
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.298	5.980	386961	124322	0.111	0.036	#
22)	S	DCBP (S)	9.511	10.548	1159083	1147394	0.119	0.060	#
		Target Compounds							
2)		a-BHC	5.824	6.611f	357462	13261627	0.076	3.165	#
3)		g-BHC	6.137	6.910	720392	6754311	0.173	1.768	#
4)		b-BHC	6.222f	6.978	9624376	781936	5.526	0.450	#
5)		Heptachlor	6.529	7.275	360.1E6	396.7E6	87.605	94.215	
6)		d-BHC	6.339	7.226	2521384	1196993	0.836	0.439	#
7)		Aldrin	6.771	7.546	4273588	3424384	1.058	0.926	
8)		Heptachlo...	7.239	7.996	56691957	19134242	15.352	5.330	#
9)		trans-Chl...	7.325	8.118	780.0E6	962.8E6	207.406	258.937	
10)		cis-Chlor...	7.420	8.225	959.8E6	801.0E6	261.356	227.371	
11)		Endosulfa...	7.538	8.299f	20165895	13926309	5.814	4.214	#
12)		4,4'-DDE	7.497	8.321	11803551	18201193	3.554	5.871	#
13)		Dieldrin	7.704	8.478	25213282	89897819	6.612	24.820	#
14)		Endrin	7.844	8.721	14531095	10503711	4.452	3.629	
15)		4,4'-DDD	7.885f	8.748	130.7E6	146.5E6	51.352	54.753	
16)		Endosulfa...	8.018	8.863	15569981	15841682	5.205	5.917	
17)		4,4'-DDT	8.086f	8.984	4459244	5944192	1.659	2.387	#
18)		Endrin Al...	8.327f	9.059f	4980847	5206868	1.892	1.970	
19)		Endosulfa...	8.609	9.284	9654587	1569721	3.373	0.539	#
20)		Methoxychlor	8.452	9.467	5212320	1964697	4.320	1.478	#
21)		Endrin Ke...	8.794	9.682	1616801	7713606	0.468	2.504	#
23)		Hexachlor...	3.087	3.680	42512	11195	0.011	0.002	#
24)		Hexachlor...	5.656f	6.462	1057378	74636	0.315	BelowCal	#
25)		Oxychlordane	7.151	7.920	6735744	10344973	2.014	3.235	#
26)		2,4'-DDE	7.239	8.118	56691957	962.8E6	24.520	423.592	#
27)		trans-Non...	7.420	8.181	959.8E6	730.0E6	261.789	202.243	
28)		2,4'-DDD	7.643f	8.478	99644686	89897819	51.448	46.962	
29)		2,4'-DDT	7.812	8.721	20874974	10503711	8.723	4.842	#
30)		cis-Nonac...	7.885	8.748	130.7E6	146.5E6	32.115	36.772	
31)		Mirex	8.547	9.682	1984719	7713606	0.613	3.470	#
32)		Chlordane...	7.325	8.118	780.0E6	962.8E6	1947.564	2216.071	
33)		Chlordane...	7.420	8.225	959.8E6	801.0E6	1973.498	2203.116	
34)		Chlordane...	7.966	8.889	253.1E6	258.6E6	1944.246	2177.312	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.390	8.478f	111.9E6	89897819	6838.359	3050.593	#
37)		Toxaphene...	7.704	8.804	25213282	21968333	802.576	546.626	#
38)		Toxaphene...	7.996	8.840	11180820	21091744	155.922	326.011	#
39)		Toxaphene...	8.245	8.889	10122748	258.6E6	148.891	2292.826	#
40)		Toxaphene...	8.452	9.059f	5212320	5206868	96.164	90.824	
41)		Toxaphene...	8.547	9.467	1984719	1964697	26.096	29.744	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

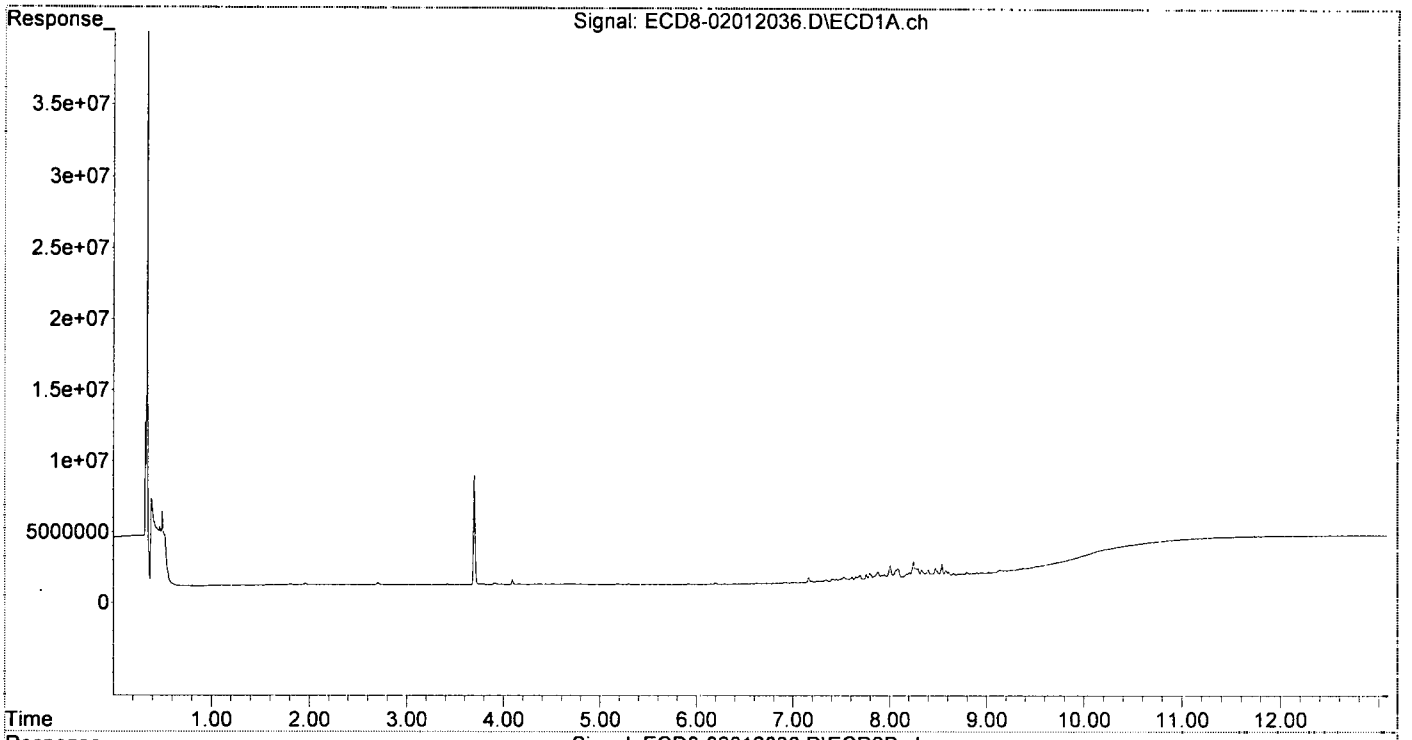
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.298	5.983	28712	46121	0.008	0.013	#
22)	S DCBP (S)	9.508	10.533	128410	317278	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.850	6.577	30270	18605	0.006	0.080	#
3)	g-BHC	6.149f	6.894	24417	14094	0.006	0.046	#
4)	b-BHC	6.193	6.958	125309	12830	0.072	0.007	#
5)	Heptachlor	6.529	7.275	12310	10539	0.003	0.003	
6)	d-BHC	0.000	7.223	0	22208	N.D.	0.104	#
7)	Aldrin	6.769	7.541	9112	11869	0.002	0.015	#
8)	Heptachlo...	7.256f	7.973	95672	80946	0.026	0.023	
9)	trans-Chl...	7.335	8.118	100371	99692	0.027	0.027	
10)	cis-Chlor...	7.412	8.206	163780	94248	0.045	0.027	#
11)	Endosulfa...	7.524	8.283	260752	107672	0.075	0.033	#
12)	4,4'-DDE	7.498	8.347	146908	129158	0.044	0.130	#
13)	Dieldrin	7.694	8.495	357259	113639	0.094	0.065	#
14)	Endrin	7.840	8.702	216021	291525	0.066	0.094	#
15)	4,4'-DDD	7.923	8.751	275869	173974	0.108	0.117	
16)	Endosulfa...	8.006	8.838	923034	694351	0.309	0.233	
17)	4,4'-DDT	8.085f	8.967	684810	319385	0.255	0.105	#
18)	Endrin Al...	8.294	9.081	605182	574323	0.230	0.217	
19)	Endosulfa...	8.609	9.283	273945	270709	0.096	0.019	#
20)	Methoxychlor	8.444	9.463	193265	749407	0.160	0.333	#
21)	Endrin Ke...	8.792	9.688	172825	386660	0.050	BelowCal	#
23)	Hexachlor...	3.074	3.699	21692	65726	0.006	0.014	#
24)	Hexachlor...	5.682	6.448	19881	34257	0.006	BelowCal	#
25)	Oxychlordane	7.161	7.924	362444	73186	BelowCal	0.023	
26)	2,4'-DDE	7.256	8.118	95672	99692	0.041	0.044	
27)	trans-Non...	7.412	8.192	163780	133847	0.045	0.037	
28)	2,4'-DDD	7.611	8.495	233550	113639	0.121	0.059	#
29)	2,4'-DDT	7.793	8.702	443186	291525	0.185	0.088	#
30)	cis-Nonac...	7.882	8.751	503875	173974	0.124	0.044	#
31)	Mirex	8.541	9.688	844549	386660	0.142	BelowCal	#
32)	Chlordane...	7.335	8.118	100371	99692	0.251	0.229	
33)	Chlordane...	7.412	8.206	163780	94248	0.337	0.259	
34)	Chlordane...	7.943f	8.907	287963	1372328	2.212	11.556	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.402	8.455	169507	273928	10.355	9.295	
37)	Toxaphene...	7.694	8.803	357259	364064	11.372	9.059	
38)	Toxaphene...	8.006	8.838	923034	694351	9.953	10.732	
39)	Toxaphene...	8.246	8.907	1100625	1372328	10.025	10.079	
40)	Toxaphene...	8.472	9.081	585949	574323	10.810	10.018	
41)	Toxaphene...	8.541	9.463	844549	749407	11.105	11.345	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

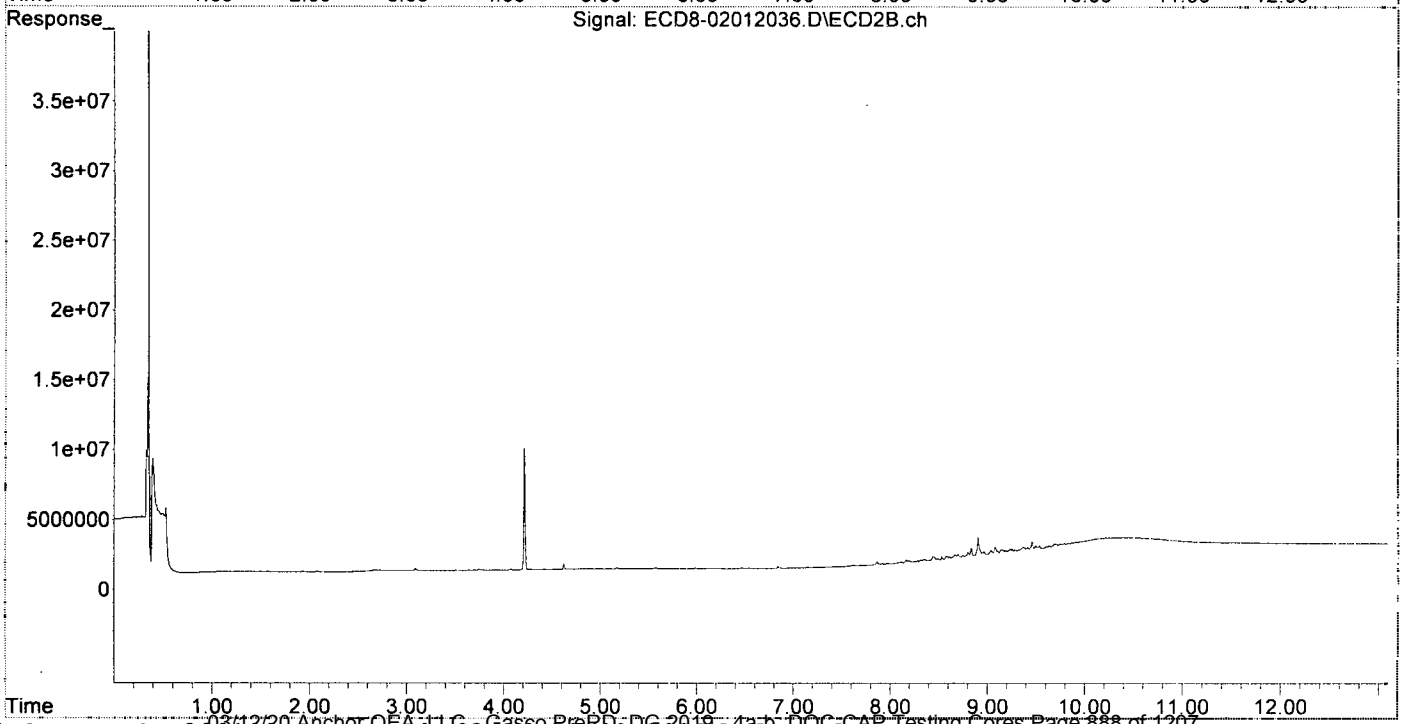
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

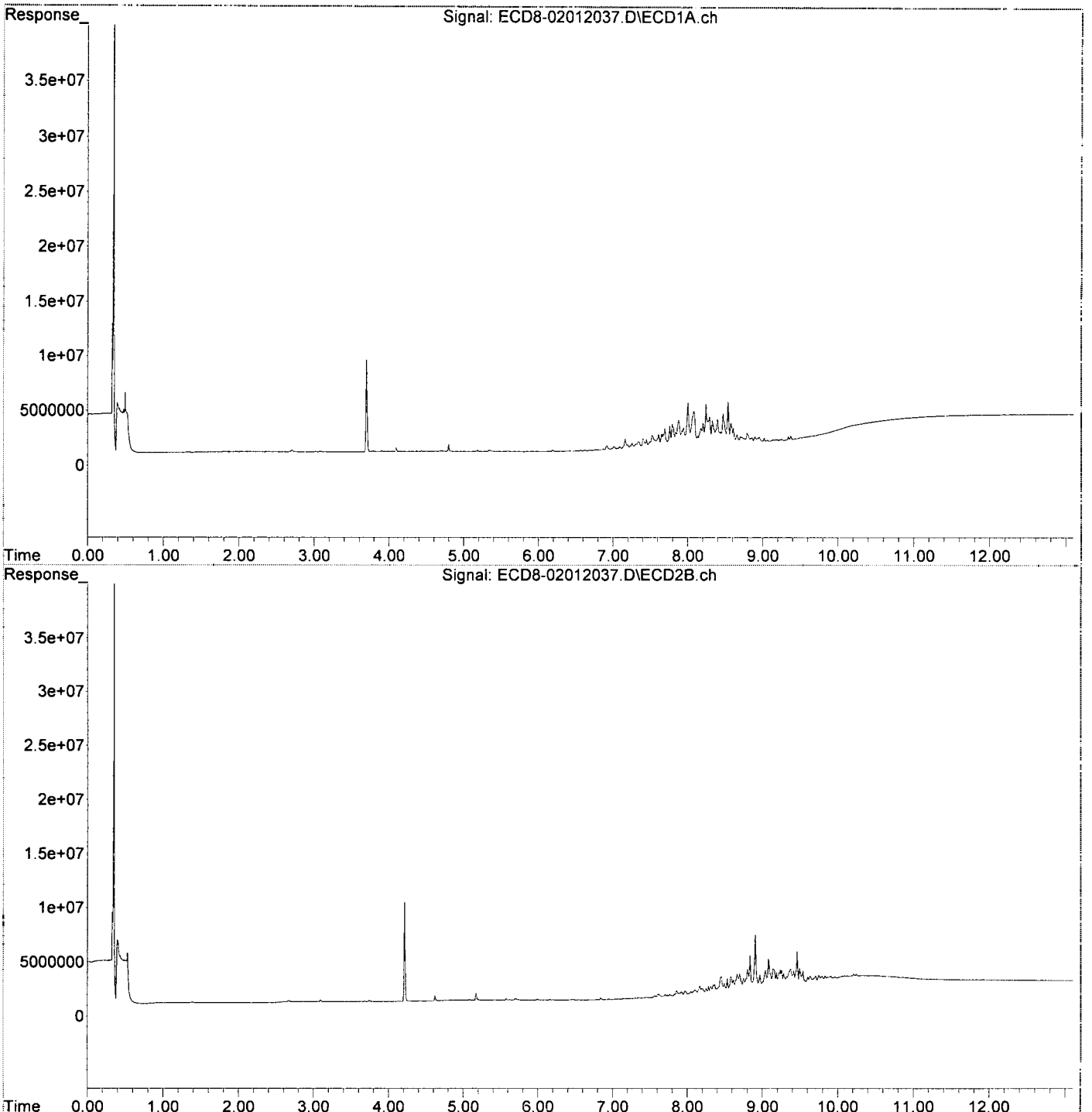
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.986	0	80701	N.D.	0.023	#
22)	S DCBP (S)	9.501	10.538	123893	268561	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.850	6.585	34223	12874	0.007	0.079	#
3)	g-BHC	6.144f	6.891	32070	17922	0.008	0.047	#
4)	b-BHC	6.191	6.955	153691	30896	0.088	0.018	#
5)	Heptachlor	6.528	7.280	30551	22684	0.007	0.005	#
6)	d-BHC	6.368f	7.224	15502	35717	0.111	0.108	
7)	Aldrin	6.768	7.566f	57242	145324	0.014	0.051	#
8)	Heptachlo...	7.233	7.973	272107	386153	0.074	0.108	#
9)	trans-Chl...	7.312	8.100	380254	414869	0.101	0.112	
10)	cis-Chlor...	7.400f	8.206	862137	427444	0.235	0.121	#
11)	Endosulfa...	7.524	8.283	1126334	609838	0.325	0.185	#
12)	4,4'-DDE	7.482	8.347	442853	712924	0.133	0.317	#
13)	Dieldrin	7.693	8.494	1682151	768101	0.441	0.252	#
14)	Endrin	7.840	8.701	1294727	1523241	0.397	0.523	#
15)	4,4'-DDD	7.922	8.750	1429529	1057977	0.562	0.496	
16)	Endosulfa...	8.004	8.839	3882297	3122967	1.298	1.152	
17)	4,4'-DDT	8.087f	8.968	3122037	1285216	1.161	0.498	#
18)	Endrin Al...	8.293	9.083	2551552	2697421	0.969	1.020	
19)	Endosulfa...	8.609	9.283	1408400	1217934	0.492	0.398	
20)	Methoxychlor	8.444	9.464	1103179	3159313	0.914	2.596	#
21)	Endrin Ke...	8.793	9.707f	873614	745112	0.253	0.041	#
23)	Hexachlor...	3.084	3.679	67660	55651	0.017	0.011	#
24)	Hexachlor...	5.682	6.450	56647	61848	0.017	BelowCal	#
25)	Oxychlordane	7.160	7.922	925553	316825	0.122	0.099	
26)	2,4'-DDE	7.233	8.100	272107	414869	0.118	0.183	#
27)	trans-Non...	7.400	8.192	862137	491663	0.235	0.136	#
28)	2,4'-DDD	7.610	8.494	1169752	768101	0.604	0.401	#
29)	2,4'-DDT	7.793	8.701	2020564	1523241	0.844	0.666	
30)	cis-Nonac...	7.882	8.750	2370728	1057977	0.583	0.265	#
31)	Mirex	8.539	9.707f	3790810	745112	1.359	0.108	#
32)	Chlordane...	7.312	8.100	380254	414869	0.949	0.955	
33)	Chlordane...	7.400	8.206	862137	427444	1.773	1.176	#
34)	Chlordane...	7.943f	8.907	1620848	5032751	12.449	42.379	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.400	8.455	862137	1457893	52.668	49.472	
37)	Toxaphene...	7.693	8.804	1682151	1899624	53.545	47.267	
38)	Toxaphene...	8.004	8.839	3882297	3122967	52.019	48.271	
39)	Toxaphene...	8.246	8.907	3672237	5032751	49.647	47.982	
40)	Toxaphene...	8.473	9.083	2698036	2697421	49.777	47.051	
41)	Toxaphene...	8.539	9.464	3790810	3159313	49.844	47.829	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

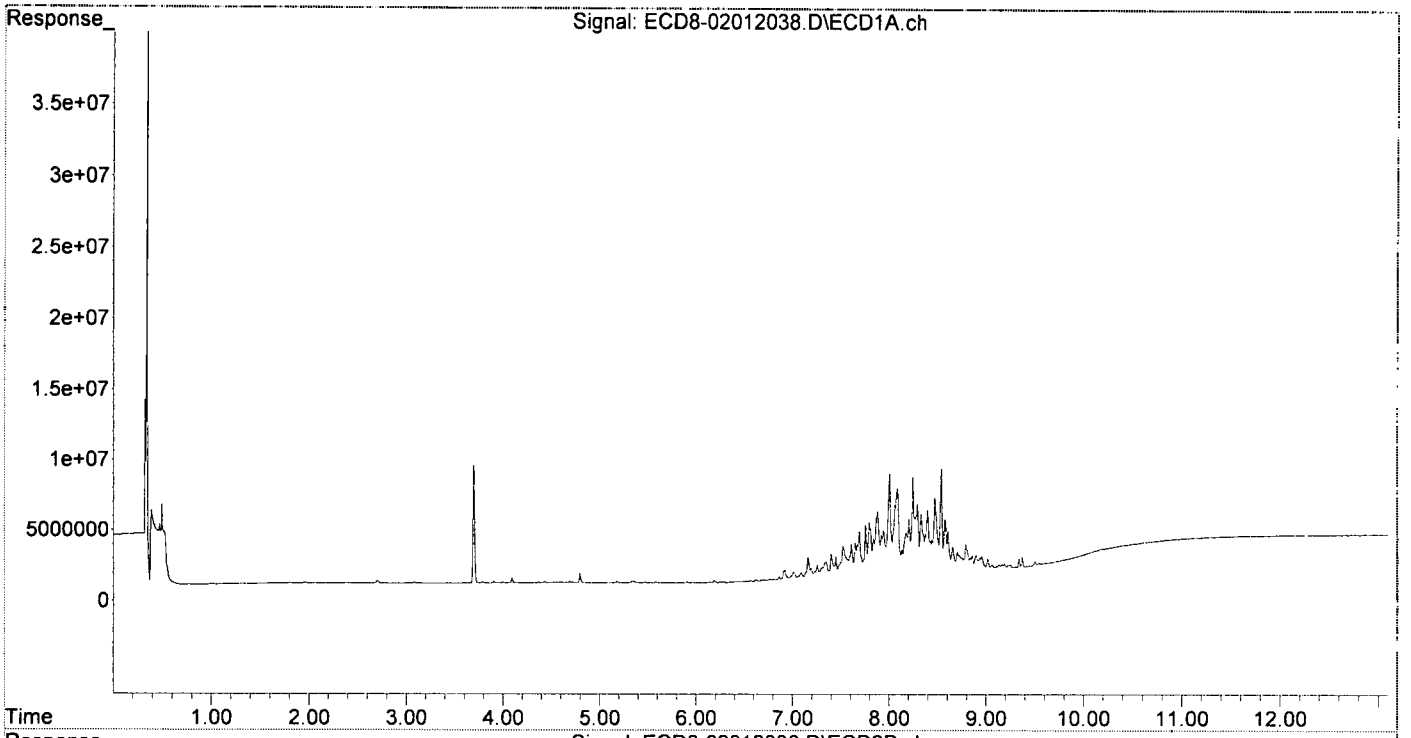
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.337f	5.984	125814	111210	0.036	0.032	
22) S	DCBP (S)	9.506	10.535	295577	948995	BelowCal	BelowCal	
	Target Compounds							
2)	a-BHC	5.838	6.581	57804	42176	0.012	0.086	#
3)	g-BHC	6.137	6.907	65176	16875	0.016	0.046	#
4)	b-BHC	6.188	6.975	184796	21326	0.106	0.012	#
5)	Heptachlor	6.527	7.279	61015	47680	0.015	0.011	
6)	d-BHC	6.353	7.221	41432	60629	0.119	0.115	
7)	Aldrin	6.766	7.567f	128145	224119	0.032	0.072	#
8)	Heptachlo...	7.232	7.973	547277	868398	0.148	0.242	#
9)	trans-Chl...	7.313	8.117	760167	729820	0.202	0.196	
10)	cis-Chlor...	7.428	8.207	808635	1016295	0.220	0.289	#
11)	Endosulfa...	7.523	8.282	2141456	1440157	0.617	0.436	#
12)	4,4'-DDE	7.498	8.347	1076140	1632568	0.324	0.612	#
13)	Dieldrin	7.693	8.495	3171817	1816907	0.832	0.551	#
14)	Endrin	7.837	8.701	2591666	3356589	0.794	1.159	#
15)	4,4'-DDD	7.921	8.750	2761819	2311026	1.085	1.031	
16)	Endosulfa...	8.004	8.838	7108085	6231660	2.376	2.325	
17)	4,4'-DDT	8.086f	8.967	6054794	2779527	2.252	1.106	#
18)	Endrin Al...	8.293	9.083	4910937	5637073	1.865	2.132	
19)	Endosulfa...	8.608	9.283	2795889	2773397	0.977	1.019	
20)	Methoxychlor	8.443	9.463	2273398	6347466	1.884	5.549	#
21)	Endrin Ke...	8.792	9.705f	1806739	1761161	0.523	0.402	
23)	Hexachlor...	3.084	3.679	76523	68887	0.020	0.014	#
24)	Hexachlor...	5.681	6.445	14947	39804	0.004	BelowCal	#
25)	Oxychlordane	7.160	7.923	1515082	758340	0.314	0.237	
26)	2,4'-DDE	7.232	8.117	547277	729820	0.237	0.321	#
27)	trans-Non...	7.400	8.193	1687426	1125647	0.460	0.312	#
28)	2,4'-DDD	7.610	8.495	2248412	1816907	1.161	0.949	
29)	2,4'-DDT	7.793	8.701	3773923	3356589	1.577	1.524	
30)	cis-Nonac...	7.880	8.750	4501580	2311026	1.106	0.580	#
31)	Mirex	8.539	9.705f	7293127	1761161	2.806	0.599	#
32)	Chlordane...	7.313	8.117	760167	729820	1.898	1.680	
33)	Chlordane...	7.428	8.207	808635	1016295	1.663	2.795	#
34)	Chlordane...	7.943f	8.906	3109836	10075815	23.886	84.845	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.400	8.455	1687426	3039636	103.084	103.147	
37)	Toxaphene...	7.693	8.803	3171817	4024499	100.964	100.139	
38)	Toxaphene...	8.004	8.838	7108085	6231660	97.914	96.322	
39)	Toxaphene...	8.245	8.906	6856793	10075815	98.669	99.857	✓
40)	Toxaphene...	8.472	9.083	5268375	5637073	97.198	98.328	
41)	Toxaphene...	8.539	9.463	7293127	6347466	95.894	96.095	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

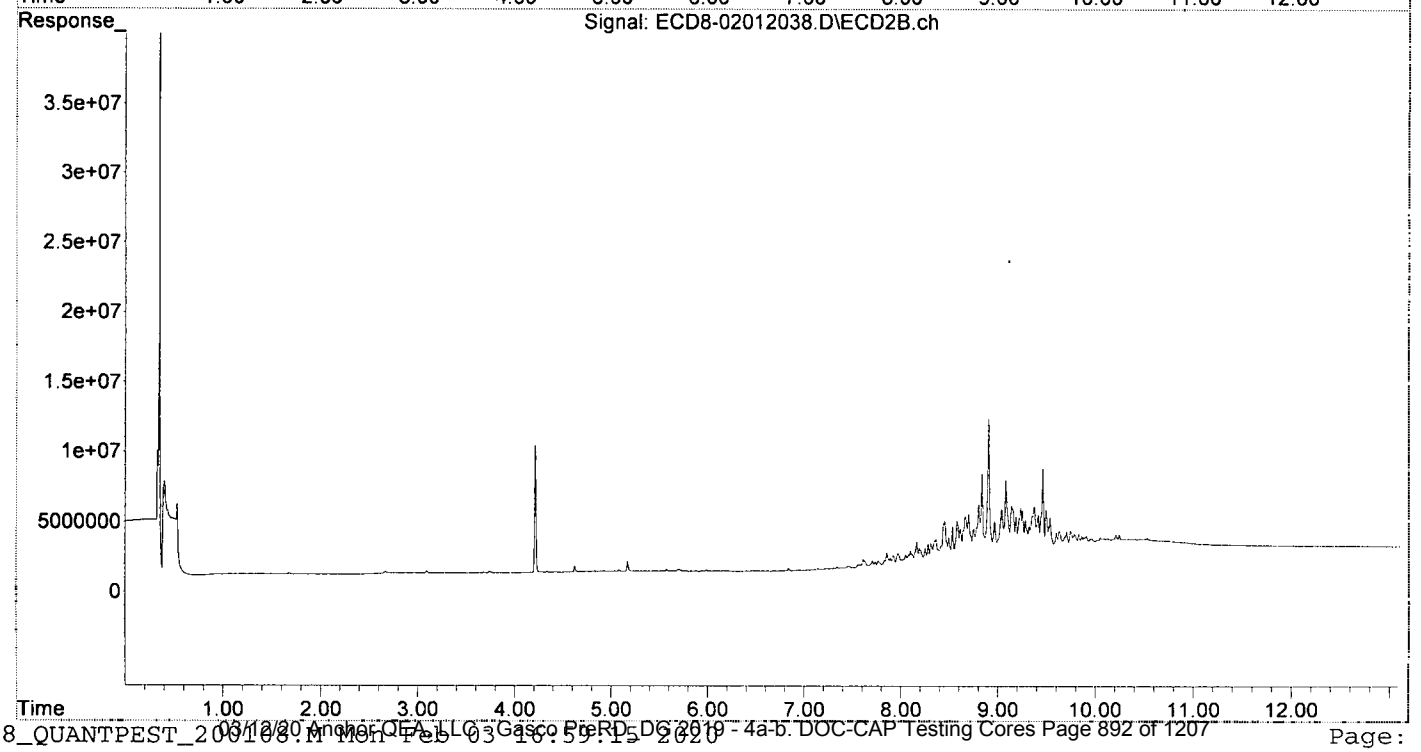
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

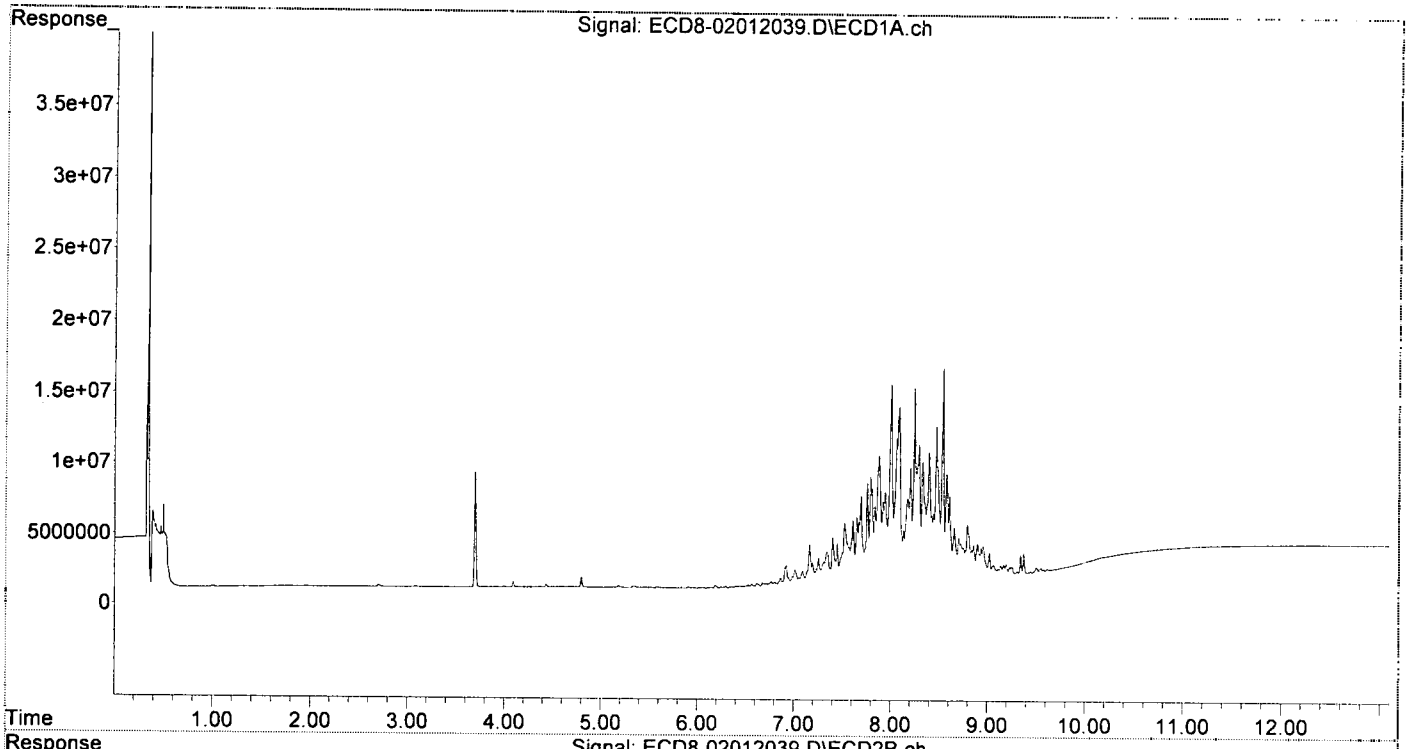
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.335f	5.983	123217	122865	0.035	0.036	
22)	S	DCBP (S)	9.501	10.534	298320	1363903	BelowCal	0.167	
		Target Compounds							
2)		a-BHC	5.835	6.585	73051	60242	0.015	0.090	#
3)		g-BHC	6.109	6.906	43247	28398	0.010	0.049	#
4)		b-BHC	6.187	6.974	212263	37354	0.122	0.022	#
5)		Heptachlor	6.527	7.277	132508	157291	0.032	0.037	
6)		d-BHC	6.328	7.220	43616	120052	0.119	0.132	
7)		Aldrin	6.767	7.566f	295018	508920	0.073	0.148	#
8)		Heptachlo...	7.231	7.972	1115354	1855621	0.302	0.517	#
9)		trans-Chl...	7.310	8.100	1526316	2157258	0.406	0.580	#
10)		cis-Chlor...	7.398f	8.206f	3210991	2125651	0.874	0.603	#
11)		Endosulfa...	7.522	8.282	4257071	2971466	1.227	0.899	#
12)		4,4'-DDE	7.495	8.345	2150202	3467118	0.647	1.200	#
13)		Dieldrin	7.692	8.493	6077785	3606437	1.594	1.061	#
14)		Endrin	7.837	8.700	5309717	6956419	1.627	2.406	#
15)		4,4'-DDD	7.920	8.750	5639872	4908688	2.216	2.135	
16)		Endosulfa...	8.003	8.860	13955658	3801613	4.665	1.409	#
17)		4,4'-DDT	8.086f	8.966	12260352	5462595	4.561	2.193	#
18)		Endrin Al...	8.291	9.082	9528641	11485592	3.619	4.344	
19)		Endosulfa...	8.608	9.282	5751213	5577948	2.009	2.136	
20)		Methoxychlor	8.443	9.464	4632463	12675921	3.839	11.286	#
21)		Endrin Ke...	8.792	9.705f	3675410	3363935	1.063	0.969	
23)		Hexachlor...	3.082	3.679	83118	81321	0.021	0.017	
24)		Hexachlor...	5.683	6.464	15191	103458	0.005	BelowCal	#
25)		Oxychlordane	7.160	7.923	2838980	1590223	0.745	0.497	#
26)		2,4'-DDE	7.231	8.100	1115354	2157258	0.482	0.949	#
27)		trans-Non...	7.398	8.192	3210991	2311635	0.876	0.640	#
28)		2,4'-DDD	7.609	8.493	4374168	3606437	2.258	1.884	
29)		2,4'-DDT	7.792	8.700	7396159	6956419	3.091	3.200	
30)		cis-Nonac...	7.880	8.750	8829364	4908688	2.170	1.232	#
31)		Mirex	8.539	9.705f	14823031	3363935	5.918	1.373	#
32)		Chlordane...	7.310	8.100	1526316	2157258	3.811	4.965	#
33)		Chlordane...	7.398f	8.206	3210991	2125651	6.603	5.847	
34)		Chlordane...	7.943f	8.905	6267582	19955192	48.139	168.036	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.398	8.454	3210991	5983532	196.158	203.045	
37)		Toxaphene...	7.692	8.803	6077785	8295354	193.465	206.409	
38)		Toxaphene...	8.003	8.838	13955658	12406840	195.484	191.770	
39)		Toxaphene...	8.245	8.905	13559149	19955192	201.678	200.350	
40)		Toxaphene...	8.471	9.082	10723722	11485592	197.846	200.345	
41)		Toxaphene...	8.539	9.464	14823031	12675921	194.901	191.903	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

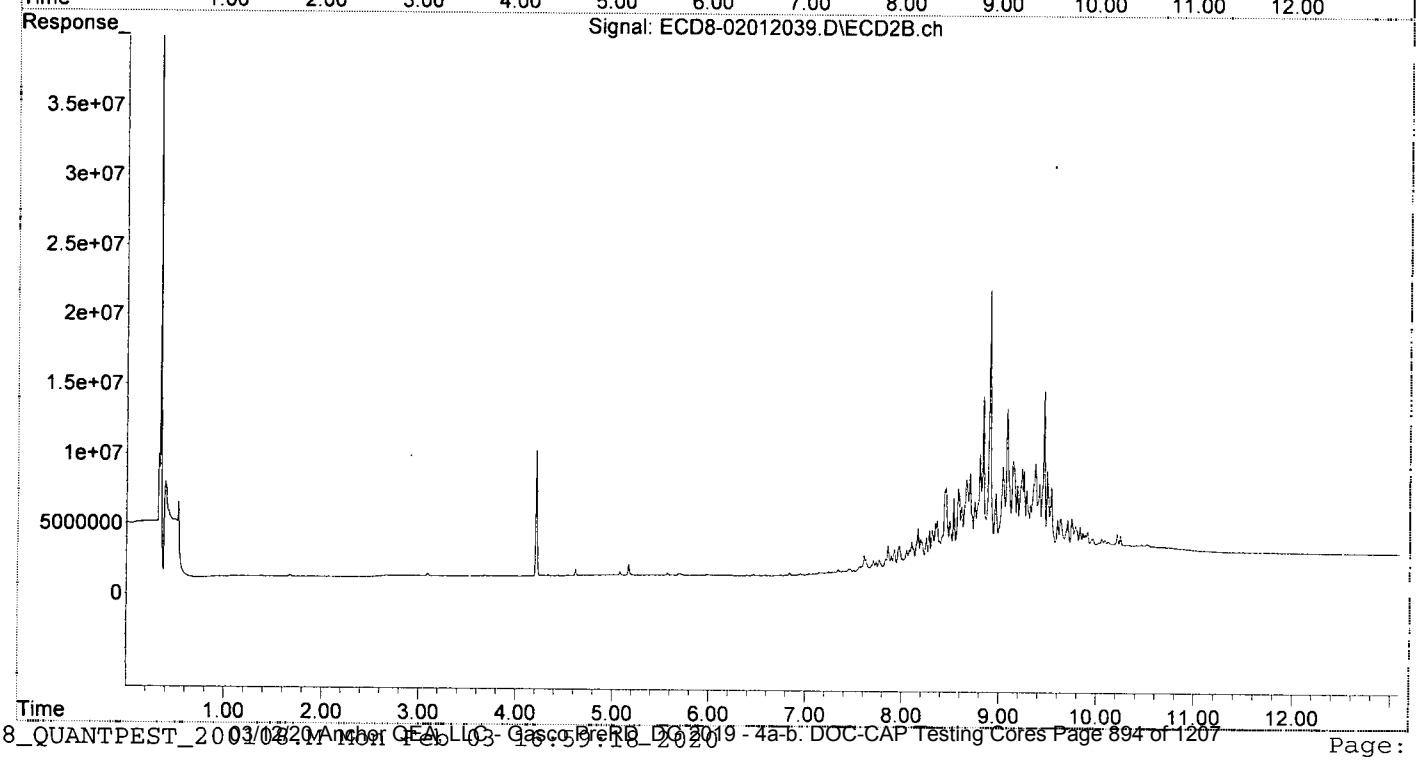
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

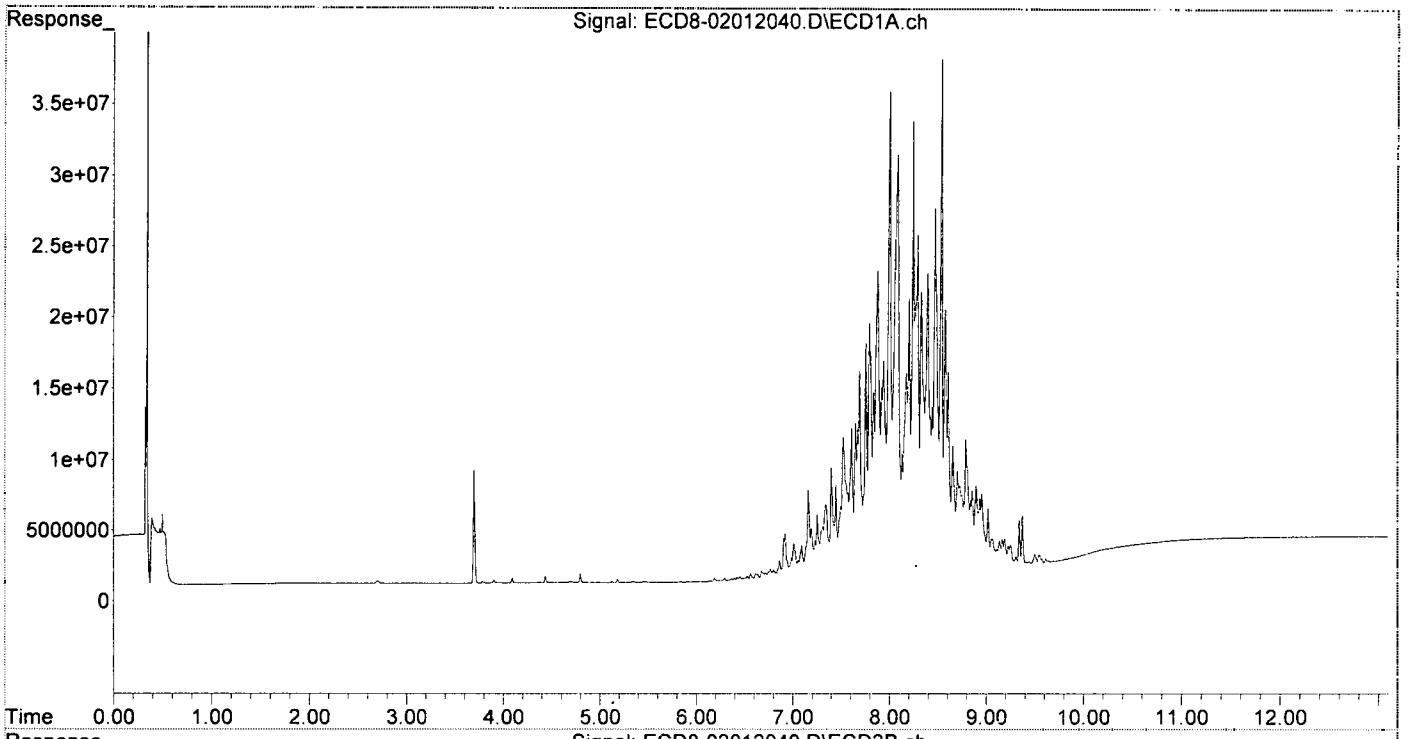
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	5.984	0	67232	N.D.	0.019	#
22)	S DCBP (S)	9.498	10.516f	663992	1308073	BelowCal	0.140	
	Target Compounds							
2)	a-BHC	5.836	6.585	76051	56797	0.016	0.089	#
3)	g-BHC	6.107	6.892	24897	108271	0.006	0.070	#
4)	b-BHC	6.189	6.973	212064	50794	0.122	0.029	#
5)	Heptachlor	6.529	7.277	270194	277882	0.066	0.066	
6)	d-BHC	6.328	7.221	54685	203406	0.122	0.156	#
7)	Aldrin	6.767	7.567f	664250	928101	0.164	0.260	#
8)	Heptachlo...	7.231	7.971	2526905	4130605	0.684	1.151	#
9)	trans-Chl...	7.311	8.114	3466352	3397407	0.922	0.914	
10)	cis-Chlor...	7.430	8.206f	3487116	4551586	0.950	1.292	#
11)	Endosulfa...	7.522	8.282	9694049	6473882	2.795	1.959	#
12)	4,4'-DDE	7.496	8.346	4872356	7560471	1.467	2.506	#
13)	Dieldrin	7.692	8.493	14283516	8007139	3.746	2.312	#
14)	Endrin	7.837	8.701	12730407	15998632	3.901	5.515	#
15)	4,4'-DDD	7.921	8.750	13086619	10853860	5.142	4.637	
16)	Endosulfa...	8.002	8.860	33827874	8270665	11.308	3.091	#
17)	4,4'-DDT	8.086f	8.967	29386681	12522091	10.932	5.023	#
18)	Endrin Al...	8.292	9.082	23653936	27050867	8.985	10.232	
19)	Endosulfa...	8.608	9.282	13882162	12650660	4.850	4.931	
20)	Methoxychlor	8.442	9.463	11479871	30451142	9.514	26.599	#
21)	Endrin Ke...	8.791	9.704f	9014181	6779793	2.608	2.175	
23)	Hexachlor...	3.083	3.678	53097	37879	0.014	0.008	#
24)	Hexachlor...	5.717f	6.467f	25603	83921	0.008	BelowCal	#
25)	Oxychlordane	7.160	7.922	6059995	3262469	1.794	1.020	#
26)	2,4'-DDE	7.231	8.114	2526905	3397407	1.093	1.495	#
27)	trans-Non...	7.399	8.191	7624274	4942774	2.080	1.369	#
28)	2,4'-DDD	7.609	8.493	10357973	8007139	5.348	4.183	
29)	2,4'-DDT	7.792	8.701	17601445	15998632	7.355	7.365	
30)	cis-Nonac...	7.879	8.750	21268594	10853860	5.226	2.724	#
31)	Mirex	8.538	9.704f	35990464	6779793	14.680	3.020	#
32)	Chlordane...	7.311	8.114	3466352	3397407	8.655	7.820	
33)	Chlordane...	7.430	8.206	3487116	4551586	7.170	12.520	#
34)	Chlordane...	7.941f	8.905	14882734	48832915	114.309	411.206	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.399	8.454	7624274	13991055	465.764	474.773	
37)	Toxaphene...	7.692	8.802	14283516	19375133	454.666	482.101	
38)	Toxaphene...	8.002	8.837	33827874	30083885	479.765	465.001	
39)	Toxaphene...	8.245	8.905	31701311	48832915	479.409	486.047	
40)	Toxaphene...	8.471	9.082	25454970	27050867	469.629	471.852	
41)	Toxaphene...	8.538	9.463	35990464	30451142	473.222	461.005	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

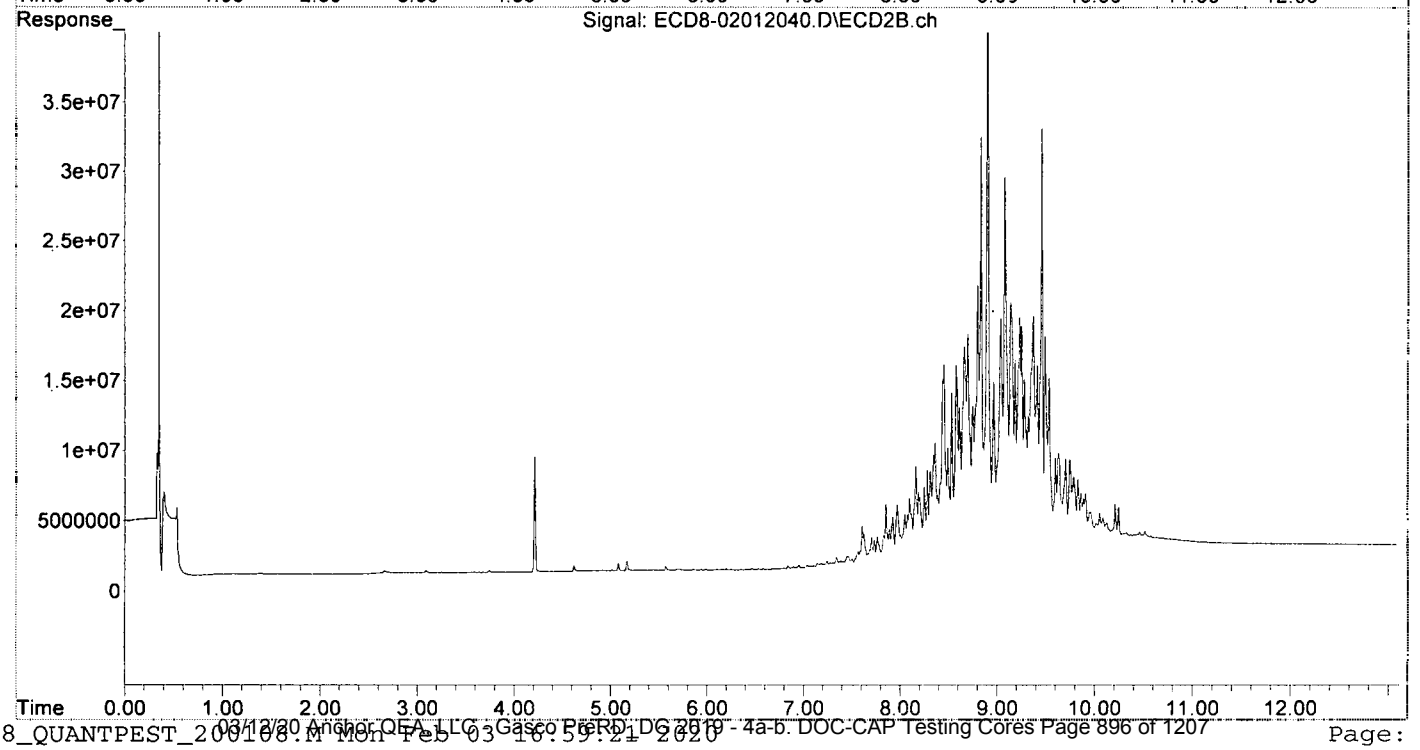
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

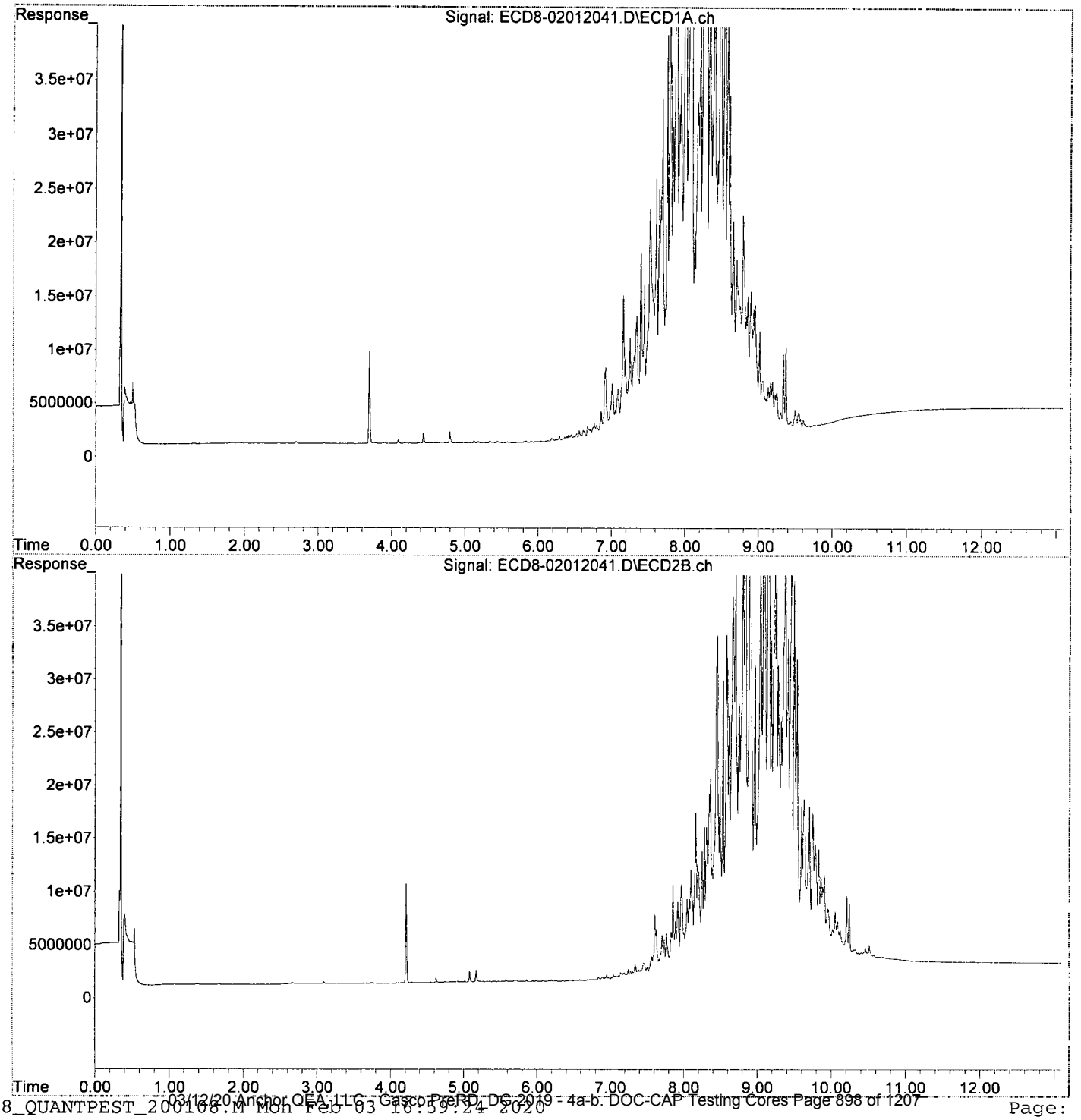
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.302	5.986	16607	100445	0.005	0.029	#
22)	S DCBP (S)	9.499	10.516f	1649629	2332562	0.311	0.647	#
	Target Compounds							
2)	a-BHC	5.836	6.585	166844	115621	0.035	0.103	#
3)	g-BHC	6.106	6.894	61658	294713	0.015	0.118	#
4)	b-BHC	6.188	6.975	309269	181982	0.178	0.105	#
5)	Heptachlor	6.528	7.276	627923	724657	0.153	0.172	
6)	d-BHC	6.350	7.217	185088	504638	0.160	0.242	#
7)	Aldrin	6.767	7.567f	1497579	2036963	0.371	0.556	#
8)	Heptachlo...	7.231	7.971	5365604	8737584	1.453	2.434	#
9)	trans-Chl...	7.311	8.099f	7651919	10181490	2.035	2.738	#
10)	cis-Chlor...	7.427	8.205f	7608852	9894908	2.072	2.809	#
11)	Endosulfa...	7.522	8.281	21178196	14026371	6.105	4.244	#
12)	4,4'-DDE	7.496	8.345	10579053	17160701	3.186	5.544	#
13)	Dieldrin	7.691	8.492	31290692	17845581	8.205	5.093	#
14)	Endrin	7.836	8.700	28664598	38302390	8.783	13.055	#
15)	4,4'-DDD	7.921	8.750	29841618	25476144	11.726	10.655	
16)	Endosulfa...	8.002	8.860	74869389	18631269	25.027	6.952	#
17)	4,4'-DDT	8.086f	8.967	65351702	29100556	24.310	11.515	#
18)	Endrin Al...	8.290	9.081	52158812	63084241	19.812	23.862	
19)	Endosulfa...	8.607	9.281	31270534	28984869	10.925	11.282	
20)	Methoxychlor	8.443	9.463	25312073	70673400	20.977	57.829	#
21)	Endrin Ke...	8.791	9.705f	20114389	15575717	5.819	5.255	
23)	Hexachlor...	3.082	3.678	64091	55233	0.016	0.011	#
24)	Hexachlor...	5.679	6.436	24017	45780	0.007	BelowCal	#
25)	Oxychlordane	7.160	7.922	13266192	7080465	4.139	2.214	#
26)	2,4'-DDE	7.231	8.099	5365604	10181490	2.321	4.479	#
27)	trans-Non...	7.427	8.191	7608852	10587314	2.075	2.933	#
28)	2,4'-DDD	7.609	8.492	23887614	17845581	12.334	9.322	
29)	2,4'-DDT	7.792	8.700	39311588	38302390	16.427	17.373	
30)	cis-Nonac...	7.880	8.750	47923221	25476144	11.776	6.393	#
31)	Mirex	8.538	9.705f	80425541	15575717	33.134	7.249	#
32)	Chlordane...	7.311	8.099	7651919	10181490	19.107	23.434	
33)	Chlordane...	7.427	8.205	7608852	9894908	15.646	27.217	#
34)	Chlordane...	7.941f	8.905	33595938	114.1E6	258.038	960.856	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.399	8.453	17126108	32020907	1046.226	1086.598	
37)	Toxaphene...	7.691	8.802	31290692	44952411	996.029	1118.527	
38)	Toxaphene...	8.002	8.837	74869389	70006747	1072.289	1082.081	
39)	Toxaphene...	8.245	8.905	71267141	114.1E6	1079.654	1093.352	
40)	Toxaphene...	8.471	9.081	57604978	63084241	1062.776	1100.387	
41)	Toxaphene...	8.538	9.463	80425541	70673400	1057.478	1069.936	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

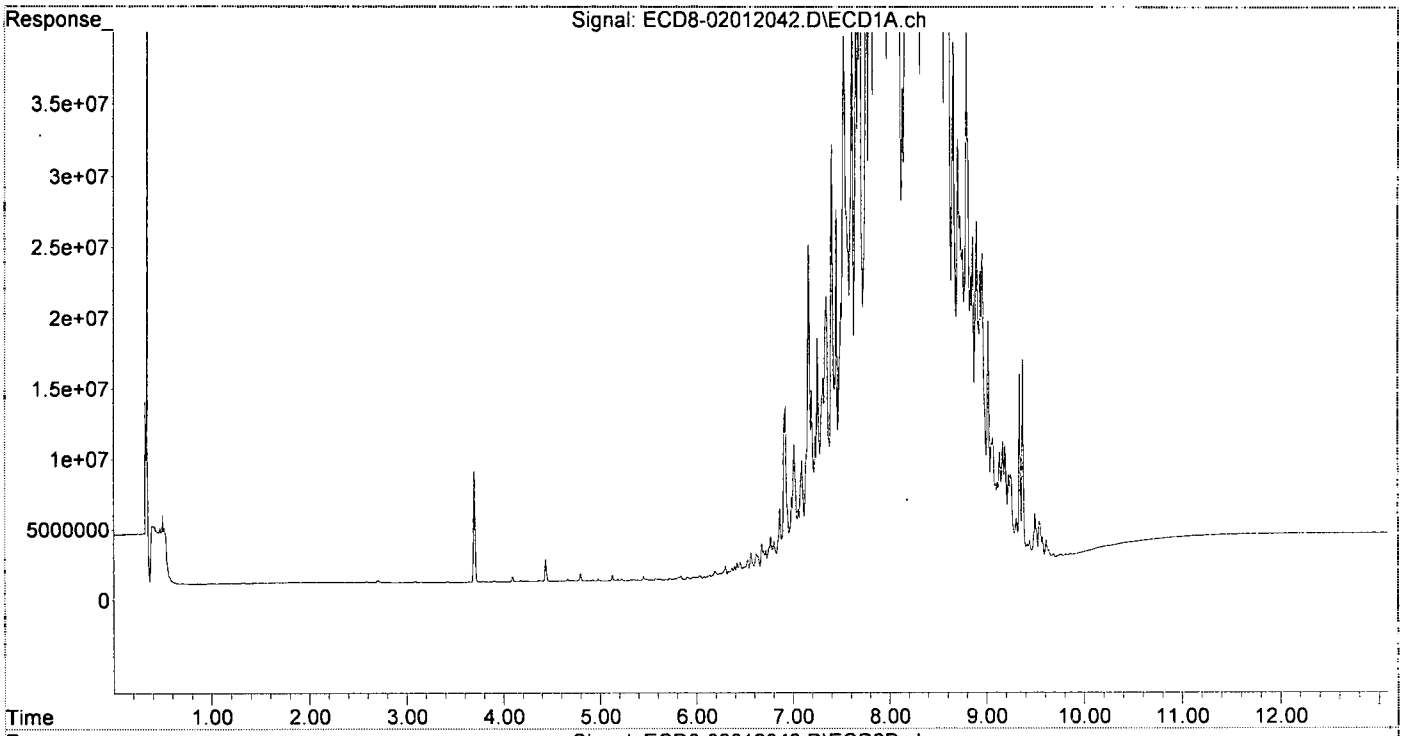
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.279	5.985	23392	70189	0.007	0.020	#
22)	S DCBP (S)	9.497	10.515f	3160340	2729530	0.903	0.844	
	Target Compounds							
2)	a-BHC	5.835	6.585	278100	197970	0.059	0.122	#
3)	g-BHC	6.133	6.893	210680	476559	0.051	0.164	#
4)	b-BHC	6.188	6.975	460960	290996	0.265	0.168	#
5)	Heptachlor	6.528	7.276	1139038	1138068	0.277	0.270	
6)	d-BHC	6.328	7.218	411368	746437	0.226	0.311	#
7)	Aldrin	6.767	7.535	2652776	1663406	0.657	0.456	#
8)	Heptachlo...	7.231	7.970	9598272	14788527	2.599	4.120	#
9)	trans-Chl...	7.311	8.098f	13687265	18209884	3.640	4.897	#
10)	cis-Chlor...	7.427	8.205f	12990010	17418779	3.537	4.945	#
11)	Endosulfa...	7.520	8.282	37628400	25656494	10.848	7.763	#
12)	4,4'-DDE	7.495	8.345	18930646	31159611	5.701	9.908	#
13)	Dieldrin	7.691	8.493	57148633	32537162	14.986	9.205	#
14)	Endrin	7.836	8.700	52527984	72409723	16.095	24.253	#
15)	4,4'-DDD	7.920	8.750	53971774	47193248	21.207	19.267	
16)	Endosulfa...	8.003	8.859	134.9E6	34109250	45.079	12.623	#
17)	4,4'-DDT	8.131f	8.966	33820069	53128545	12.581	20.577	#
18)	Endrin Al...	8.290	9.082	94278993	117.9E6	35.811	44.588	
19)	Endosulfa...	8.607	9.282	56874670	53457856	19.871	20.540	
20)	Methoxychlor	8.442	9.462	46714915	131.6E6	38.715	98.872	#
21)	Endrin Ke...	8.790	9.704f	37377099	28668518	10.814	9.778	
23)	Hexachlor...	3.081	3.679	62396	46375	0.016	0.010	#
24)	Hexachlor...	5.677	6.433	36317	78535	0.011	BelowCal	#
25)	Oxychlordane	7.160	7.922	23154517	12678184	7.355	3.964	#
26)	2,4'-DDE	7.231	8.098	9598272	18209884	4.151	8.011	#
27)	trans-Non...	7.427	8.191	12990010	18718915	3.543	5.186	#
28)	2,4'-DDD	7.608	8.493	41463942	32537162	21.409	16.997	
29)	2,4'-DDT	7.791	8.700	71100081	72409723	29.710	32.019	
30)	cis-Nonac...	7.879	8.750	87530613	47193248	21.509	11.842	#
31)	Mirex	8.537	9.704f	145.3E6	28668518	60.232	13.508	#
32)	Chlordane...	7.311	8.098	13687265	18209884	34.177	41.912	
33)	Chlordane...	7.427	8.205f	12990010	17418779	26.710	47.912	#
34)	Chlordane...	7.941f	8.905	61742354	212.6E6	474.221	1790.459	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.398	8.453	30177110	58830123	1843.507	1996.342	
37)	Toxaphene...	7.691	8.802	57148633	82998661	1819.126	2065.211	
38)	Toxaphene...	8.003	8.837	134.9E6	132.9E6	1951.936	2054.370	
39)	Toxaphene...	8.243	8.905	128.9E6	212.6E6	1941.789	1929.462	
40)	Toxaphene...	8.471	9.082	104.1E6	117.9E6	1920.344	2056.150	
41)	Toxaphene...	8.537	9.462	145.3E6	131.6E6	1910.606	1992.916	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

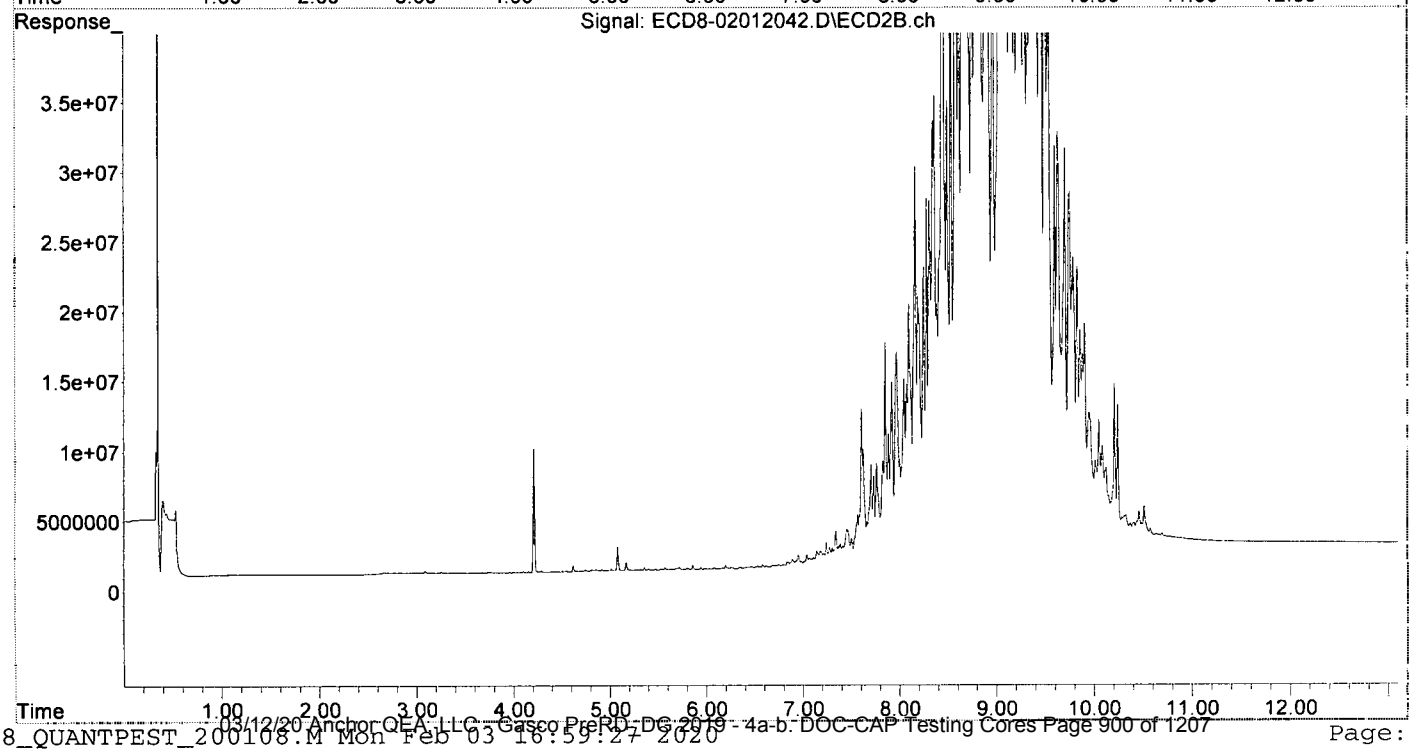
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation





Sequence Name: C:\msdchem\1\sequence\0B01012.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\1\DATA\2020-02\0B01012\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line		Sample Name/Misc Info
1) Sample	1	Hexane
Datafile		ECD8-02012001
Method		ECD8_AQUPEST_190925
2) Sample	1	Hexane
Datafile		ECD8-02012002
Method		ECD8_AQUPEST_190925
3) Sample	2	0B01012-BKD1
Datafile		ECD8-02012003
Method		ECD8_AQUPEST_190925
4) Sample	3	0B01012-ICB1
Datafile		ECD8-02012004
Method		ECD8_AQUPEST_190925
5) Sample	4	0B01012-CAL1
Datafile		ECD8-02012005
Method		ECD8_AQUPEST_190925
6) Sample	5	0B01012-CAL2
Datafile		ECD8-02012006
Method		ECD8_AQUPEST_190925
7) Sample	6	0B01012-CAL3
Datafile		ECD8-02012007
Method		ECD8_AQUPEST_190925
8) Sample	7	0B01012-CAL4
Datafile		ECD8-02012008
Method		ECD8_AQUPEST_190925
9) Sample	8	0B01012-CAL5
Datafile		ECD8-02012009
Method		ECD8_AQUPEST_190925
10) Sample	9	0B01012-CAL6
Datafile		ECD8-02012010
Method		ECD8_AQUPEST_190925
11) Sample	10	0B01012-CAL7
Datafile		ECD8-02012011
Method		ECD8_AQUPEST_190925
12) Sample	11	0B01012-CAL8
Datafile		ECD8-02012012
Method		ECD8_AQUPEST_190925
13) Sample	12	0B01012-CAL9
Datafile		ECD8-02012013
Method		ECD8_AQUPEST_190925
14) Sample	1	0B01012-IBL1
Datafile		ECD8-02012014
Method		ECD8_AQUPEST_190925
15) Sample	13	0B01012-ICV1
Datafile		ECD8-02012015
Method		ECD8_AQUPEST_190925
16) Sample	14	0B01012-CALA
Datafile		ECD8-02012016
Method		ECD8_AQUPEST_190925
17) Sample	15	0B01012-CALB
Datafile		ECD8-02012017
Method		ECD8_AQUPEST_190925
18) Sample	16	0B01012-CALC
Datafile		ECD8-02012018
Method		ECD8_AQUPEST_190925
19) Sample	17	0B01012-CALD
Datafile		ECD8-02012019
Method		ECD8_AQUPEST_190925
20) Sample	18	0B01012-CALE

MJP 2/3/20

Datafile		ECD8-02012020
Method		ECD8_AQUPEST_190925
21) Sample	19	0B01012-CALF
Datafile		ECD8-02012021
Method		ECD8_AQUPEST_190925
22) Sample	20	0B01012-CALG
Datafile		ECD8-02012022
Method		ECD8_AQUPEST_190925
23) Sample	21	0B01012-CALH
Datafile		ECD8-02012023
Method		ECD8_AQUPEST_190925
24) Sample	22	0B01012-CALI
Datafile		ECD8-02012024
Method		ECD8_AQUPEST_190925
25) Sample	1	0B01012-IBL2
Datafile		ECD8-02012025
Method		ECD8_AQUPEST_190925
26) Sample	23	0B01012-ICV2
Datafile		ECD8-02012026
Method		ECD8_AQUPEST_190925
27) Sample	24	0B01012-CALJ
Datafile		ECD8-02012027
Method		ECD8_AQUPEST_190925
28) Sample	25	0B01012-CALK
Datafile		ECD8-02012028
Method		ECD8_AQUPEST_190925
29) Sample	26	0B01012-CALL
Datafile		ECD8-02012029
Method		ECD8_AQUPEST_190925
30) Sample	27	0B01012-CALM
Datafile		ECD8-02012030
Method		ECD8_AQUPEST_190925
31) Sample	28	0B01012-CALN
Datafile		ECD8-02012031
Method		ECD8_AQUPEST_190925
32) Sample	29	0B01012-CALO
Datafile		ECD8-02012032
Method		ECD8_AQUPEST_190925
33) Sample	30	0B01012-CALP
Datafile		ECD8-02012033
Method		ECD8_AQUPEST_190925
34) Sample	1	0B01012-IBL3
Datafile		ECD8-02012034
Method		ECD8_AQUPEST_190925
35) Sample	31	0B01012-ICV3
Datafile		ECD8-02012035
Method		ECD8_AQUPEST_190925
36) Sample	32	0B01012-CALQ
Datafile		ECD8-02012036
Method		ECD8_AQUPEST_190925
37) Sample	33	0B01012-CALR
Datafile		ECD8-02012037
Method		ECD8_AQUPEST_190925
38) Sample	34	0B01012-CALS
Datafile		ECD8-02012038
Method		ECD8_AQUPEST_190925
39) Sample	35	0B01012-CALT
Datafile		ECD8-02012039
Method		ECD8_AQUPEST_190925
40) Sample	36	0B01012-CALU
Datafile		ECD8-02012040
Method		ECD8_AQUPEST_190925
41) Sample	37	0B01012-CALV
Datafile		ECD8-02012041
Method		ECD8_AQUPEST_190925
42) Sample	38	0B01012-CALW
Datafile		ECD8-02012042
Method		ECD8_AQUPEST_190925
43) Sample	1	0B01012-IBL4
Datafile		ECD8-02012043
Method		ECD8_AQUPEST_190925

Sequence Name: C:\msdchem\1\sequence\0B01012.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	39	0B01012-ICV4		
	Datafile		ECD8-02012044		
	Method			ECD8_AQUPEST_190925	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B01012 BKD1
Data File: ECD8-02012003.D

First Column Area Counts		Percent Breakdown	
DDE	14726696		
DDD	41771993		
DDT	2413043961	**2.29**	**PASS**
Endrin	1457300057	**7.93**	**PASS**
Endrin Aldehyde	61356077		
Endrin Ketone	64185001		

Second Column Area Counts		Percent Breakdown	
DDE	16962656		
DDD	42718820		
DDT	2637052504	**2.21**	**PASS**
Endrin	1408511020	**7.21**	**PASS**
Endrin Aldehyde	40978971		
Endrin Ketone	68527902		

Breakdown must be less than 15% to accept sample data.

MJB 2/5/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 14:52
Operator : MJB
Sample : 0B01012-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:38:46 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.491	14726696	NoCal	ng/mL
2)	Endrin	7.854	1457300057	NoCal	ng/mL
3)	4,4'-DDD	7.912	41771993	NoCal	ng/mL
4)	4,4'-DDT	8.108	2413043961	NoCal	ng/mL
5)	Endrin Aldehyde	8.302	61356077	NoCal	ng/mL
6)	Endrin Ketone	8.798	64185001	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.333	16962656	NoCal	ng/mL
9)	Endrin [2C]	8.706	1408511020	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.749	42718820	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.090	40978971	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.975	2637052504	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.683	68527902	NoCal	ng/mL

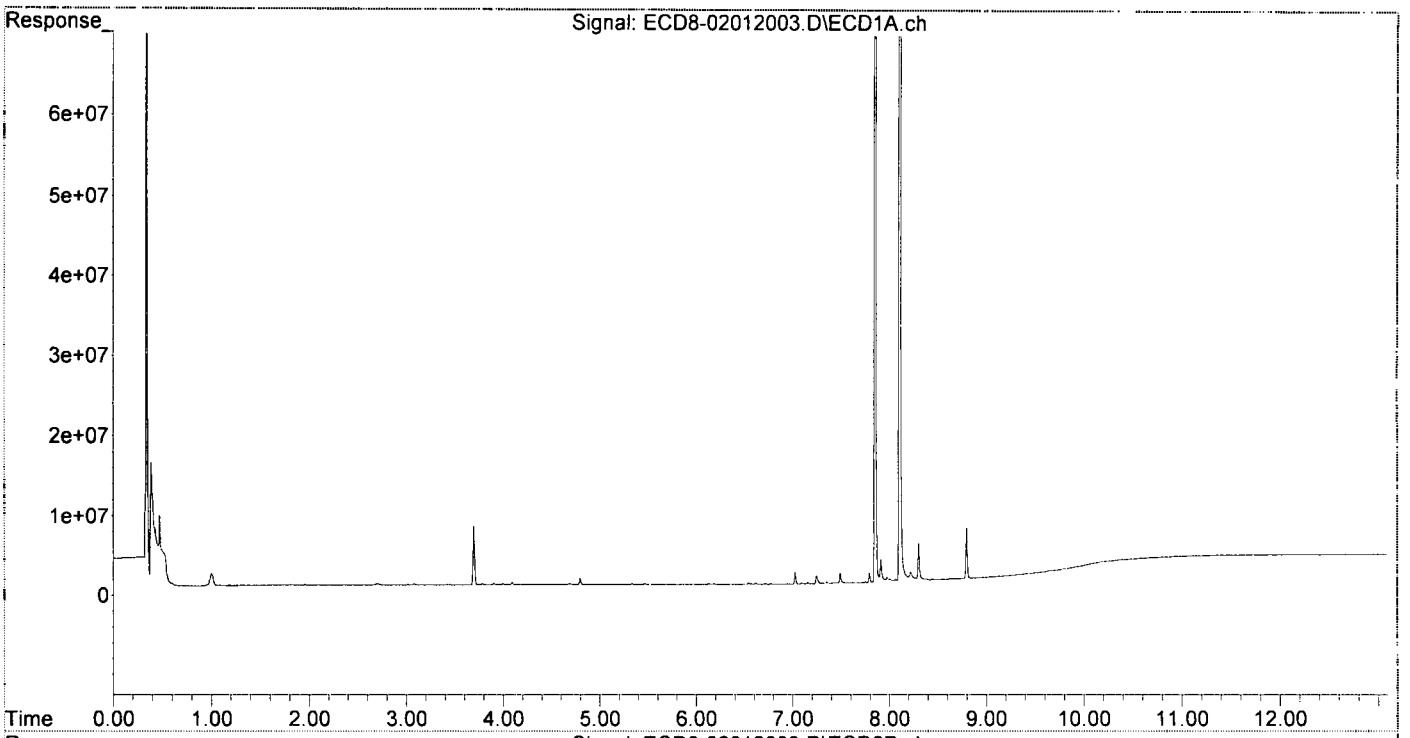
(f)=RT Delta > 1/2 Window (m)=manual int.

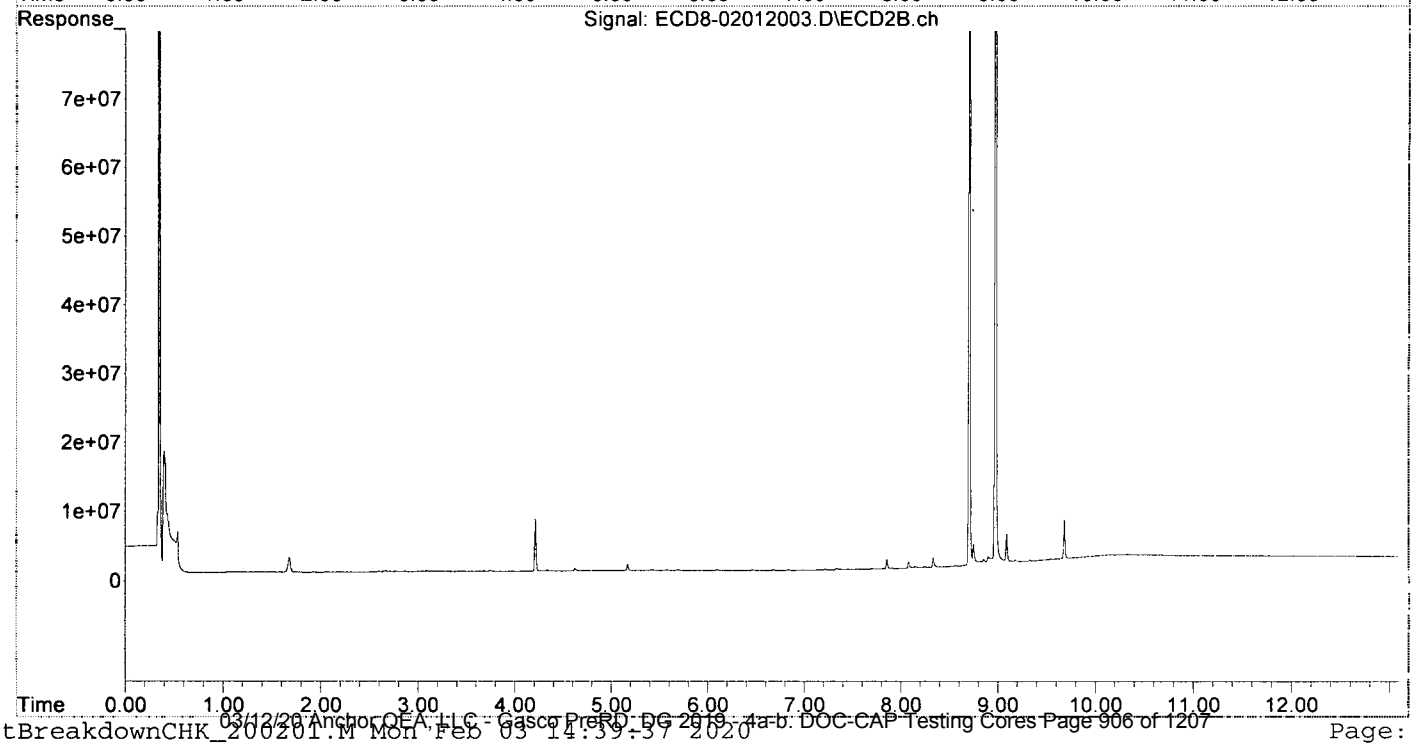
MJB 2/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 14:52
Operator : MJB
Sample : 0B01012-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:38:46 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:44:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJF 2/3/20

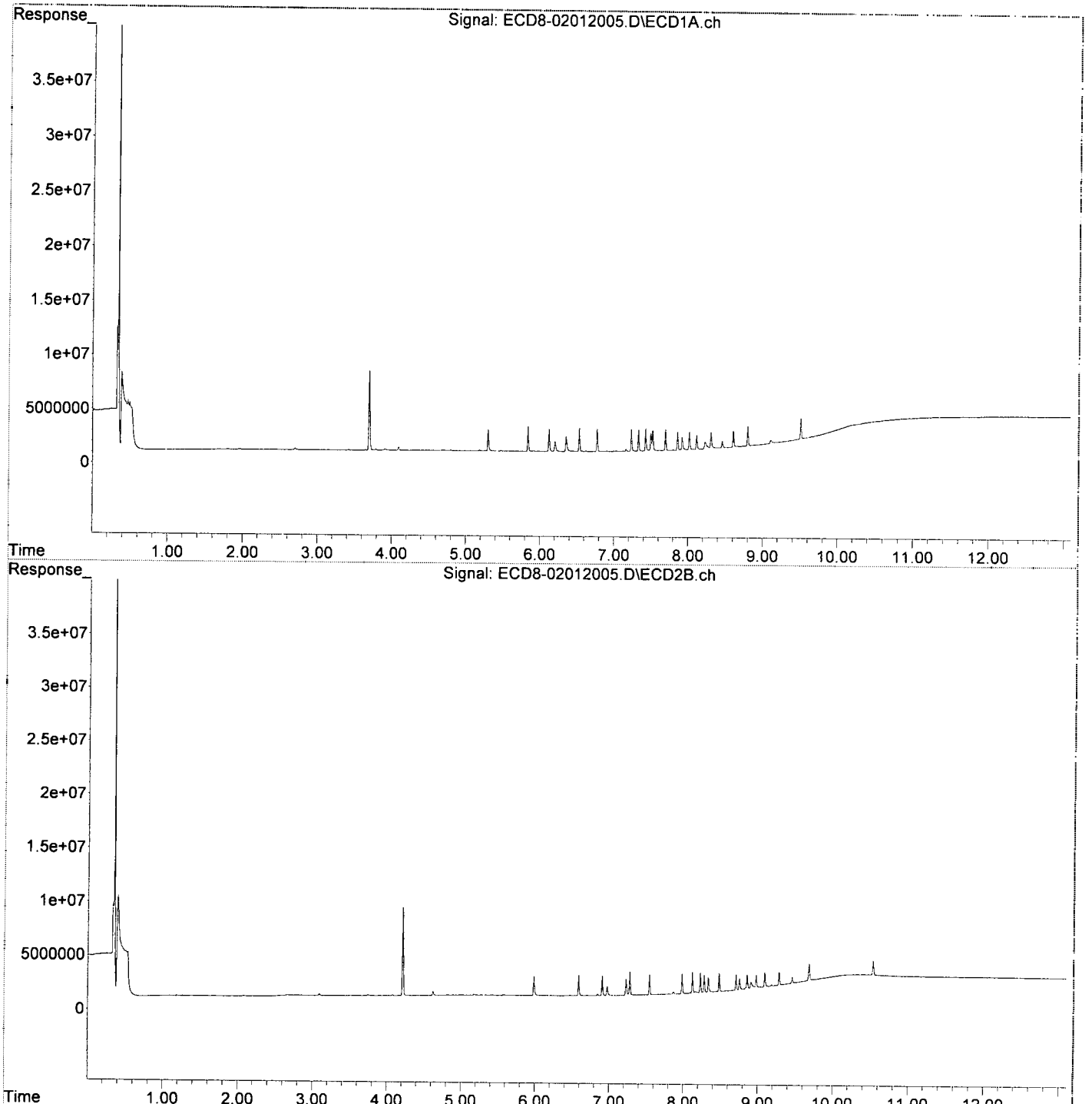
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.982	2010387	1807457	0.600	0.498
22) S	DCBP (S)	9.507	10.537	2137981	2121210	0.670	0.752
	Target Compounds						
2)	a-BHC	5.836	6.585	2323532	1906806	0.622	0.645
3)	g-BHC	6.120	6.903	2098226	1857818	0.657	0.659
4)	b-BHC	6.201	6.970	943381	871353	0.671	0.593
5)	Heptachlor	6.529	7.276	2213636	2166906	0.742	0.715
6)	d-BHC	6.351	7.224	1446613	1525163	0.641	0.667
7)	Aldrin	6.769	7.541	2117773	1887335	0.632	0.601
8)	Heptachlo...	7.230	7.979	2037408	1829309	0.666	0.579
9)	trans-Chl...	7.327	8.119	2006872	1923989	0.634	0.589
10)	cis-Chlor...	7.424	8.226	2072536	1851957	0.661	0.563
11)	Endosulfa...	7.519	8.277	1932337	1589681	0.656	0.531
12)	4,4'-DDE	7.493	8.333	1628951	1346237	0.619	0.542
13)	Dieldrin	7.691	8.478	1958633	1711724	0.613	0.608
14)	Endrin	7.854	8.705	1701747	1499119	0.689	0.755
15)	4,4'-DDD	7.915	8.751	1218671	1119384	0.587	0.615
16)	Endosulfa...	8.013	8.854	1650694	1442453	0.661	0.599
17)	4,4'-DDT	8.110	8.975	1351757	1360505	0.609	0.679
18)	Endrin Al...	8.303	9.091	1534740	1556354	0.673	0.643
19)	Endosulfa...	8.604	9.282	1548557	1535031	0.630	0.627
20)	Methoxychlor	8.454	9.456	650344	981544	0.576	0.860 #
21)	Endrin Ke...	8.797	9.683	1865728	2135612	0.639	0.729
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:44:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:45:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

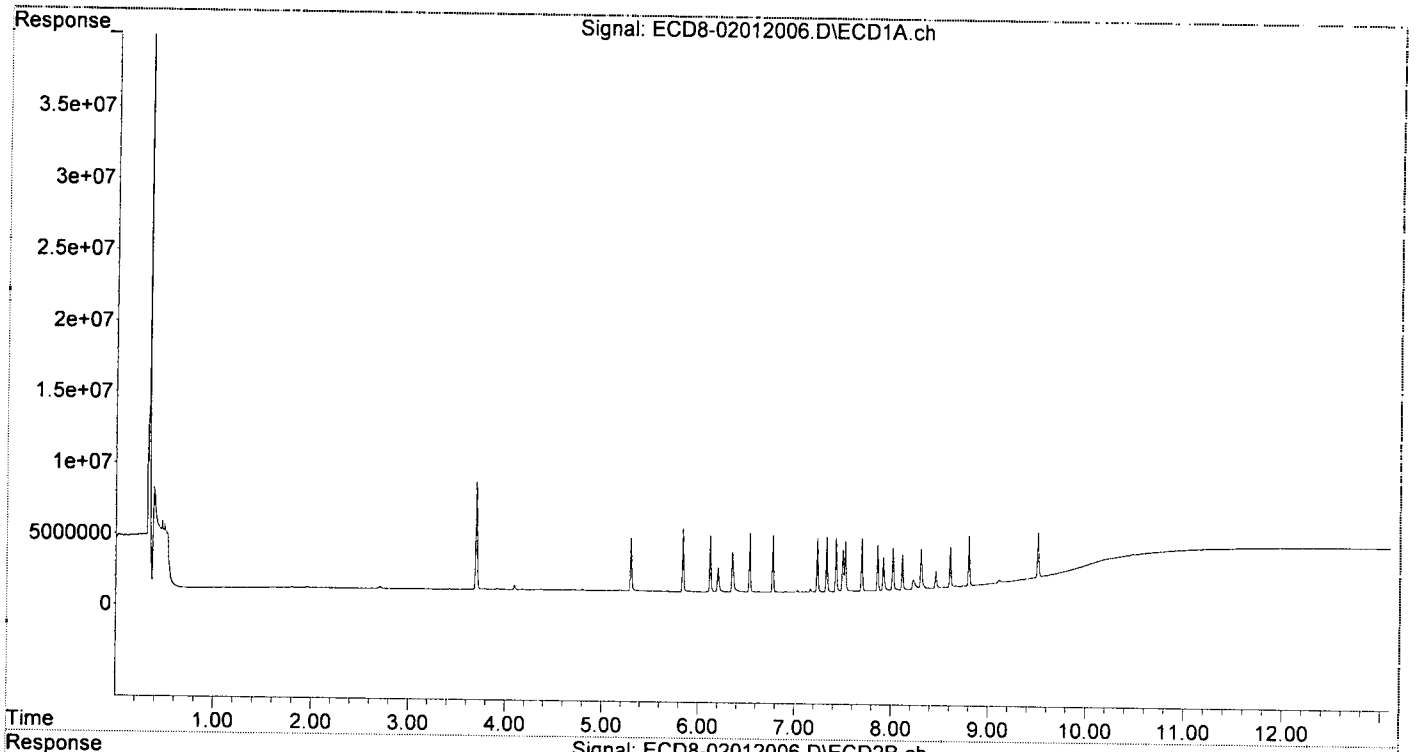
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.298	5.982	3713760	3325610	1.108	0.916
22) S	DCBP (S)	9.507	10.537	3342363	2619998	1.179	0.998
	Target Compounds						
2)	a-BHC	5.837	6.585	4491787	3754344	1.203	1.159
3)	g-BHC	6.120	6.902	3995270	3614287	1.251	1.216
4)	b-BHC	6.200	6.968	1736591	1672509	1.235	1.138
5)	Heptachlor	6.529	7.275	4223019	4011938	1.415	1.324
6)	d-BHC	6.351	7.224	2800163	2821743	1.098	1.098
7)	Aldrin	6.769	7.542	4023063	3540234	1.201	1.096
8)	Heptachlo...	7.230	7.979	3849968	3563306	1.258	1.129
9)	trans-Chl...	7.327	8.119	3865919	3473086	1.220	1.064
10)	cis-Chlor...	7.423	8.226	3812238	3361292	1.217	1.021
11)	Endosulfa...	7.519	8.277	3593891	3092501	1.220	1.034
12)	4,4'-DDE	7.493	8.333	2976091	2684993	1.066	0.983
13)	Dieldrin	7.691	8.478	3771816	3204188	1.180	1.084
14)	Endrin	7.854	8.705	3307872	2810308	1.389	1.364
15)	4,4'-DDD	7.914	8.751	2373048	2115078	1.142	1.128
16)	Endosulfa...	8.013	8.855	3004856	2617481	1.203	1.110
17)	4,4'-DDT	8.109	8.975	2497592	2317293	1.126	1.148
18)	Endrin Al...	8.303	9.091	2830842	2604623	1.241	1.076
19)	Endosulfa...	8.604	9.281	2921925	2490983	1.188	1.052
20)	Methoxychlor	8.454	9.454	1197106	1213779	1.060	1.103
21)	Endrin Ke...	8.797	9.683	3540934	3121972	1.213	1.128
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

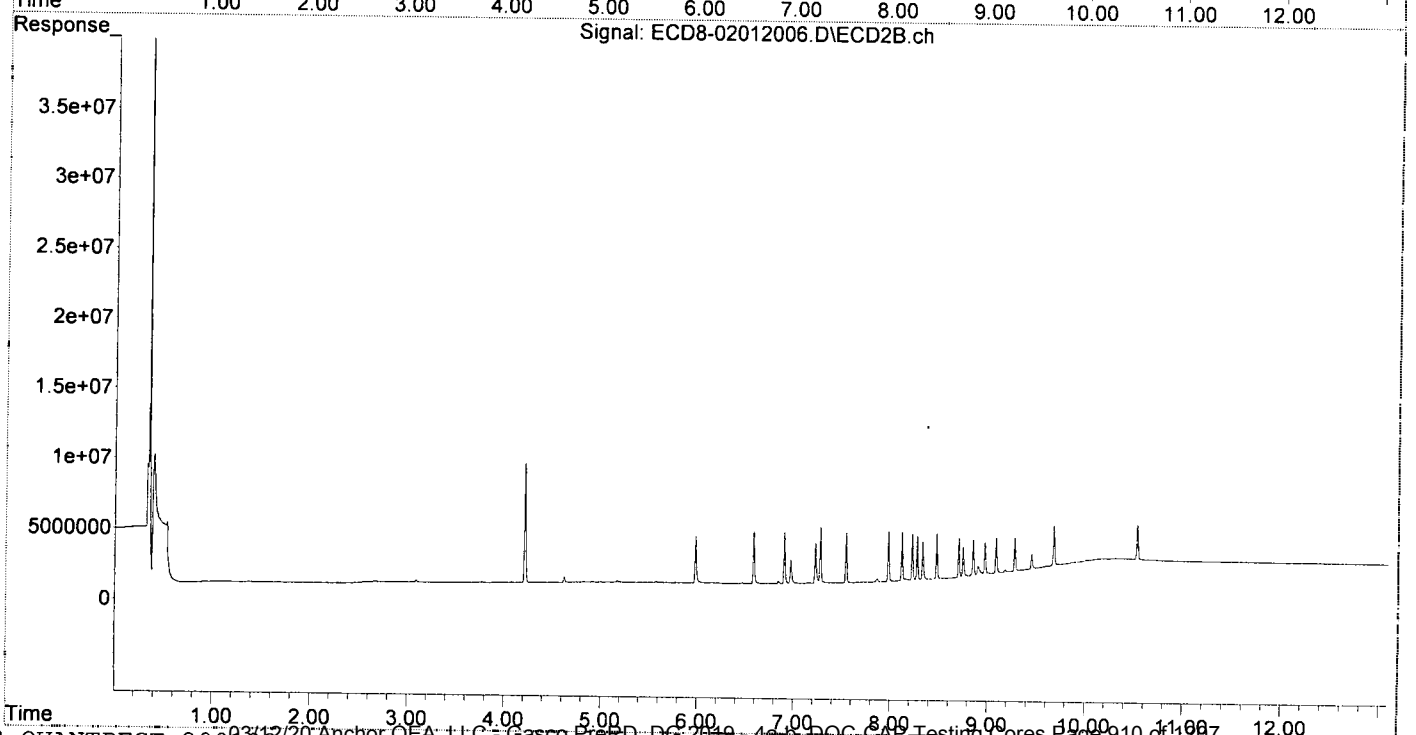
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:45:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:46:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/4/20

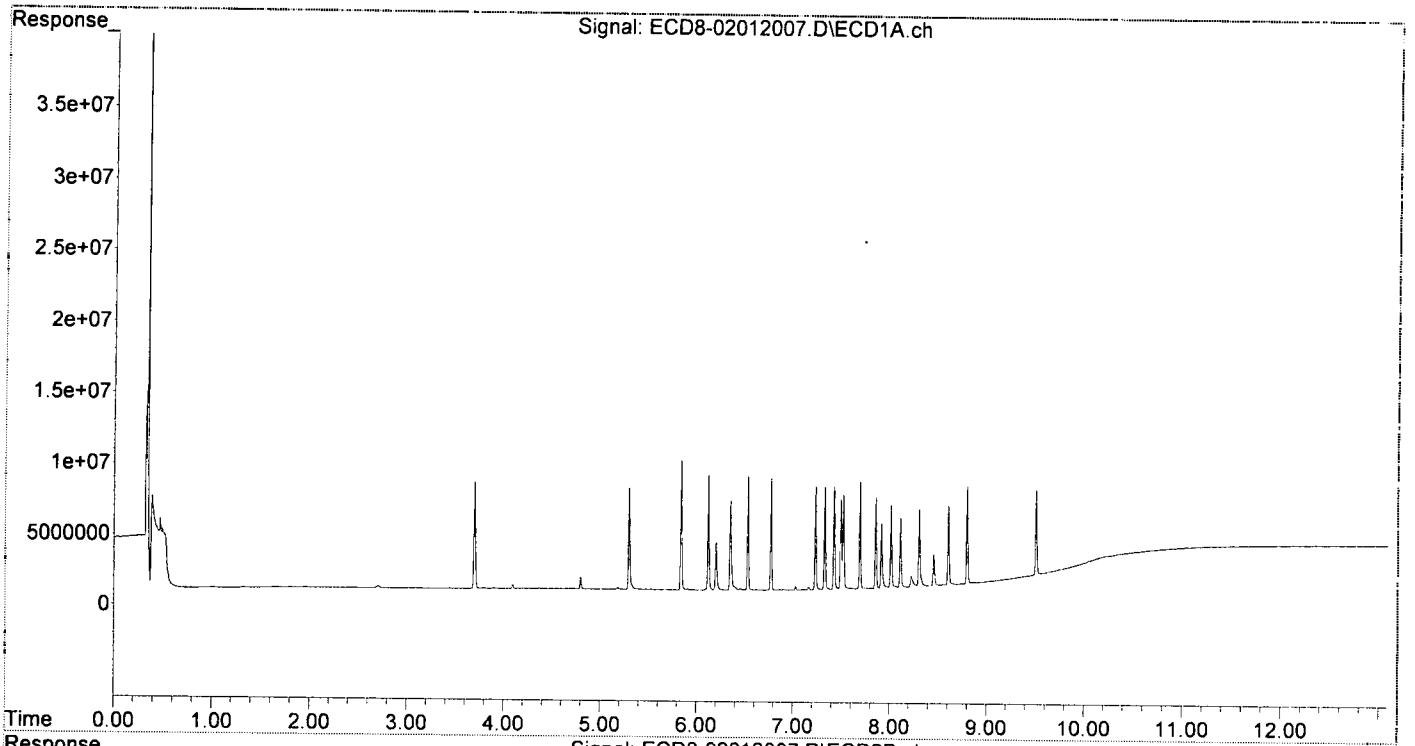
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.982	7209311	6464924	2.152	1.780
22)	S DCBP (S)	9.506	10.536	6150705	5371510	2.366	2.349
	Target Compounds						
2)	a-BHC	5.837	6.585	9150524	7591226	2.450	2.224
3)	g-BHC	6.119	6.902	8103069	7144289	2.537	2.332
4)	b-BHC	6.199	6.967	3435299	3394908	2.443	2.310
5)	Heptachlor	6.529	7.275	8104217	7612959	2.716	2.512
6)	d-BHC	6.348	7.222	6356662	6360084	2.296	2.270
7)	Aldrin	6.768	7.541	7878680	7212786	2.351	2.192
8)	Heptachlo...	7.230	7.979	7310938	6383239	2.389	2.022
9)	trans-Chl...	7.326	8.118	7233767	6824804	2.284	2.091
10)	cis-Chlor...	7.423	8.226	7290278	6414031	2.327	1.949
11)	Endosulfa...	7.518	8.277	6684329	6087483	2.269	2.035
12)	4,4'-DDE	7.492	8.332	6364080	5670683	2.190	1.962
13)	Dieldrin	7.691	8.477	7527776	6556953	2.355	2.151
14)	Endrin	7.854	8.705	6440400	5547721	2.607	2.630
15)	4,4'-DDD	7.912	8.750	4683505	4350712	2.255	2.275
16)	Endosulfa...	8.012	8.854	5851117	5197583	2.343	2.230
17)	4,4'-DDT	8.109	8.975	4907038	4735251	2.212	2.330
18)	Endrin Al...	8.302	9.091	5465292	5226313	2.397	2.160
19)	Endosulfa...	8.604	9.281	5585397	5212773	2.271	2.259
20)	Methoxychlor	8.453	9.455	2268598	2619150	2.009	2.567 #
21)	Endrin Ke...	8.797	9.682	6824708	6091766	2.338	2.327
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

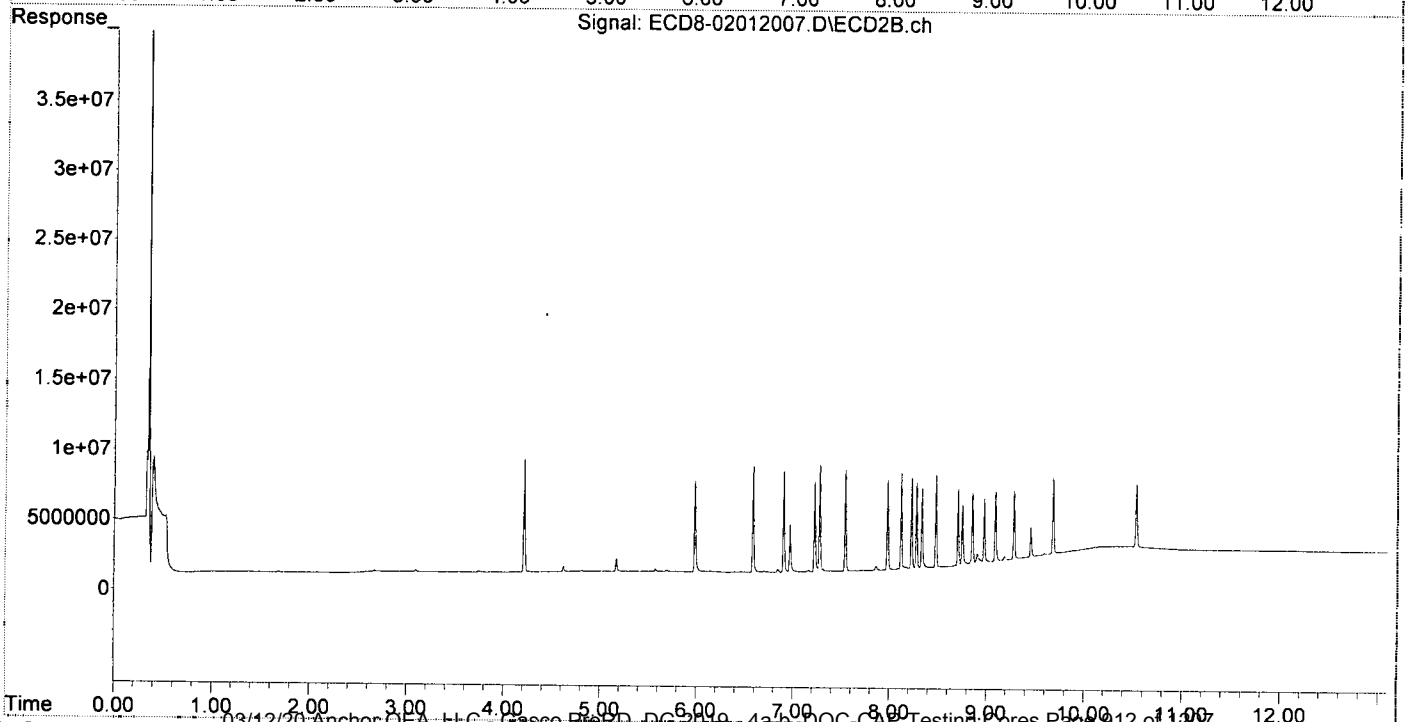
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:46:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:47:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

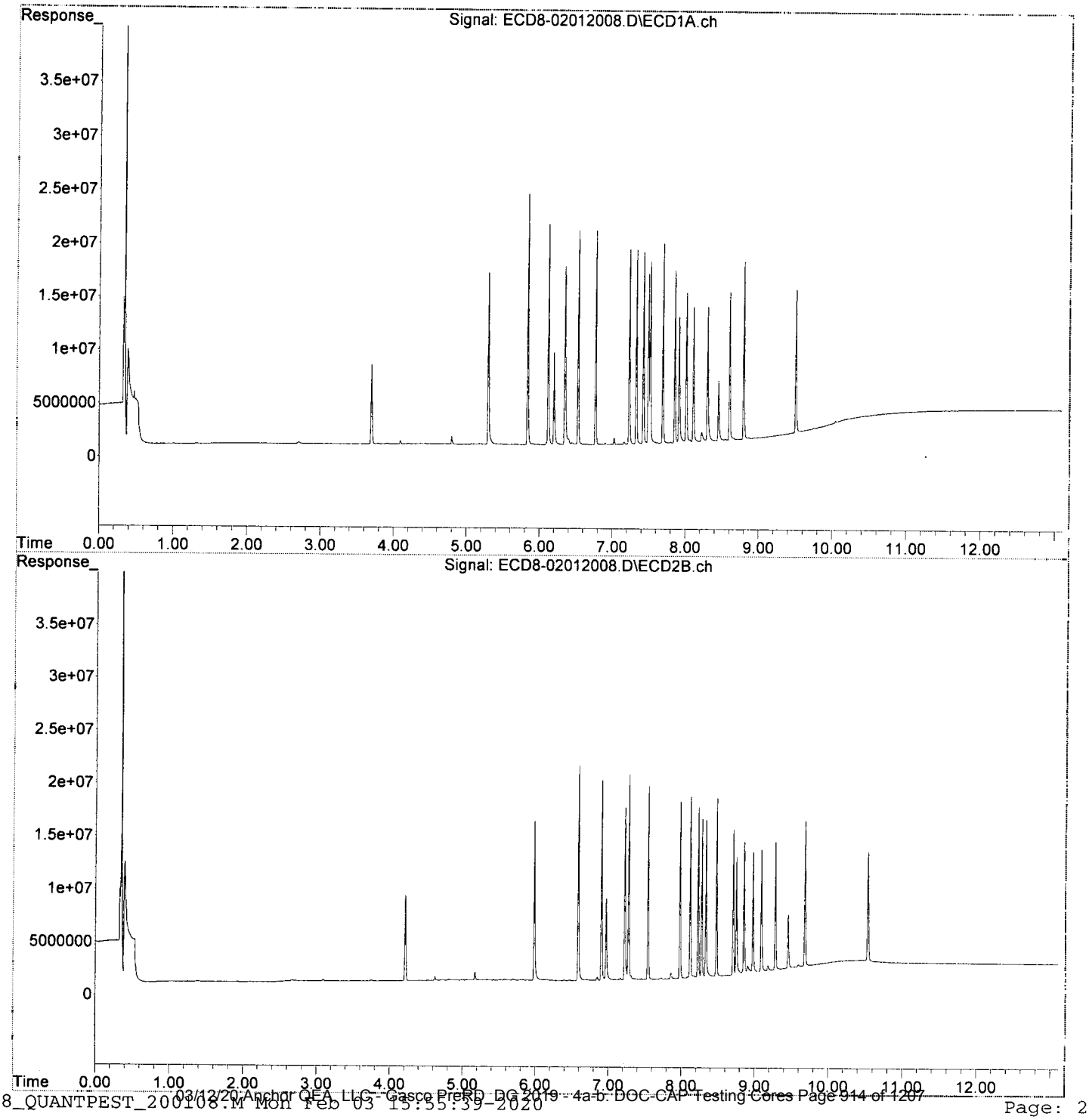
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.298	5.981	16081203	15031272	4.800	4.139
22)	S DCBP (S)	9.507	10.536	13550213	11242637	5.488	5.219
	Target Compounds						
2)	a-BHC	5.837	6.585	23466079	20250518	6.283	5.703
3)	g-BHC	6.119	6.902	20617843	18903687	6.456	6.022
4)	b-BHC	6.198	6.967	8638547	7798279	6.142	5.306
5)	Heptachlor	6.529	7.275	20002736	19371564	6.704	6.391
6)	d-BHC	6.347	7.222	16718254	16286148	5.770	5.526
7)	Aldrin	6.769	7.542	20021477	18260292	5.976	5.470
8)	Heptachlo...	7.230	7.979	18211245	16663788	5.950	5.279
9)	trans-Chl...	7.327	8.118	18164041	17064405	5.734	5.227
10)	cis-Chlor...	7.423	8.226	17894373	16061241	5.711	4.881
11)	Endosulfa...	7.519	8.277	17033099	14978724	5.782	5.008
12)	4,4'-DDE	7.491	8.333	15902445	14859572	5.344	4.949
13)	Dieldrin	7.691	8.478	18752761	16896160	5.867	5.420
14)	Endrin	7.854	8.706	16153756	13876087	6.539	6.445
15)	4,4'-DDD	7.913	8.749	11737231	11254024	5.650	5.777
16)	Endosulfa...	8.012	8.854	14001650	12686668	5.607	5.453
17)	4,4'-DDT	8.109	8.975	12632646	11635054	5.694	5.665
18)	Endrin Al...	8.303	9.090	12590069	11838674	5.521	4.893
19)	Endosulfa...	8.603	9.281	13843885	12518228	5.628	5.469
20)	Methoxychlor	8.453	9.454	5565381	5652133	4.929	5.697
21)	Endrin Ke...	8.797	9.683	16623046	14402455	5.695	5.653
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:47:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:48:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

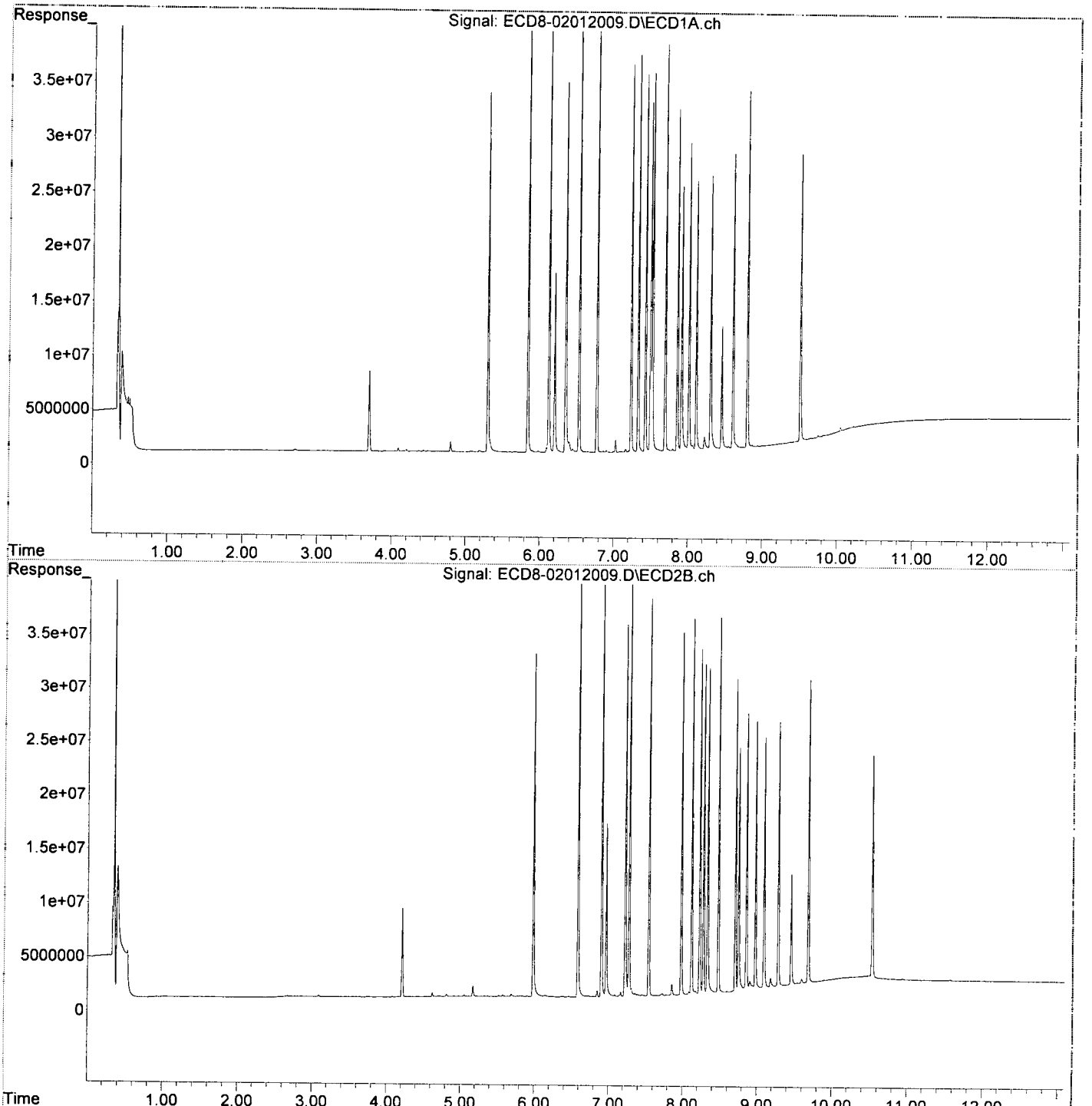
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.981	33031495	31880995	9.859	8.779
22)	S DCBP (S)	9.507	10.537	26605868	21641632	10.977	10.254
	Target Compounds						
2)	a-BHC	5.836	6.585	46556069	43486995	12.465	11.969
3)	g-BHC	6.119	6.902	40429962	38516992	12.660	12.087
4)	b-BHC	6.198	6.967	16571546	16056619	11.782	10.924
5)	Heptachlor	6.529	7.275	39900092	38743493	13.373	12.783
6)	d-BHC	6.346	7.221	33972136	34556711	11.498	11.406
7)	Aldrin	6.769	7.542	39553332	36952424	11.805	10.947
8)	Heptachlo...	7.229	7.979	35561831	33689906	11.619	10.672
9)	trans-Chl...	7.325	8.119	36451101	34945337	11.507	10.705
10)	cis-Chlor...	7.423	8.226	34569322	32046693	11.084	9.739
11)	Endosulfa...	7.518	8.277	34748038	30647883	11.795	10.246
12)	4,4'-DDE	7.491	8.332	32072763	30195241	10.656	9.852
13)	Dieldrin	7.691	8.478	37298305	34982484	11.669	11.066
14)	Endrin	7.854	8.706	31349018	29160503	12.690	13.309
15)	4,4'-DDD	7.912	8.749	24259195	22757929	11.678	11.485
16)	Endosulfa...	8.012	8.854	28189352	25937677	11.288	11.067
17)	4,4'-DDT	8.108	8.975	24692282	25132611	11.129	12.043
18)	Endrin Al...	8.302	9.090	25111118	23622312	11.012	9.763
19)	Endosulfa...	8.604	9.282	27042784	25036220	10.994	10.878
20)	Methoxychlor	8.453	9.455	11230884	10865325	9.947	10.983
21)	Endrin Ke...	8.797	9.683	32676144	28830661	11.195	11.338
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:48:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

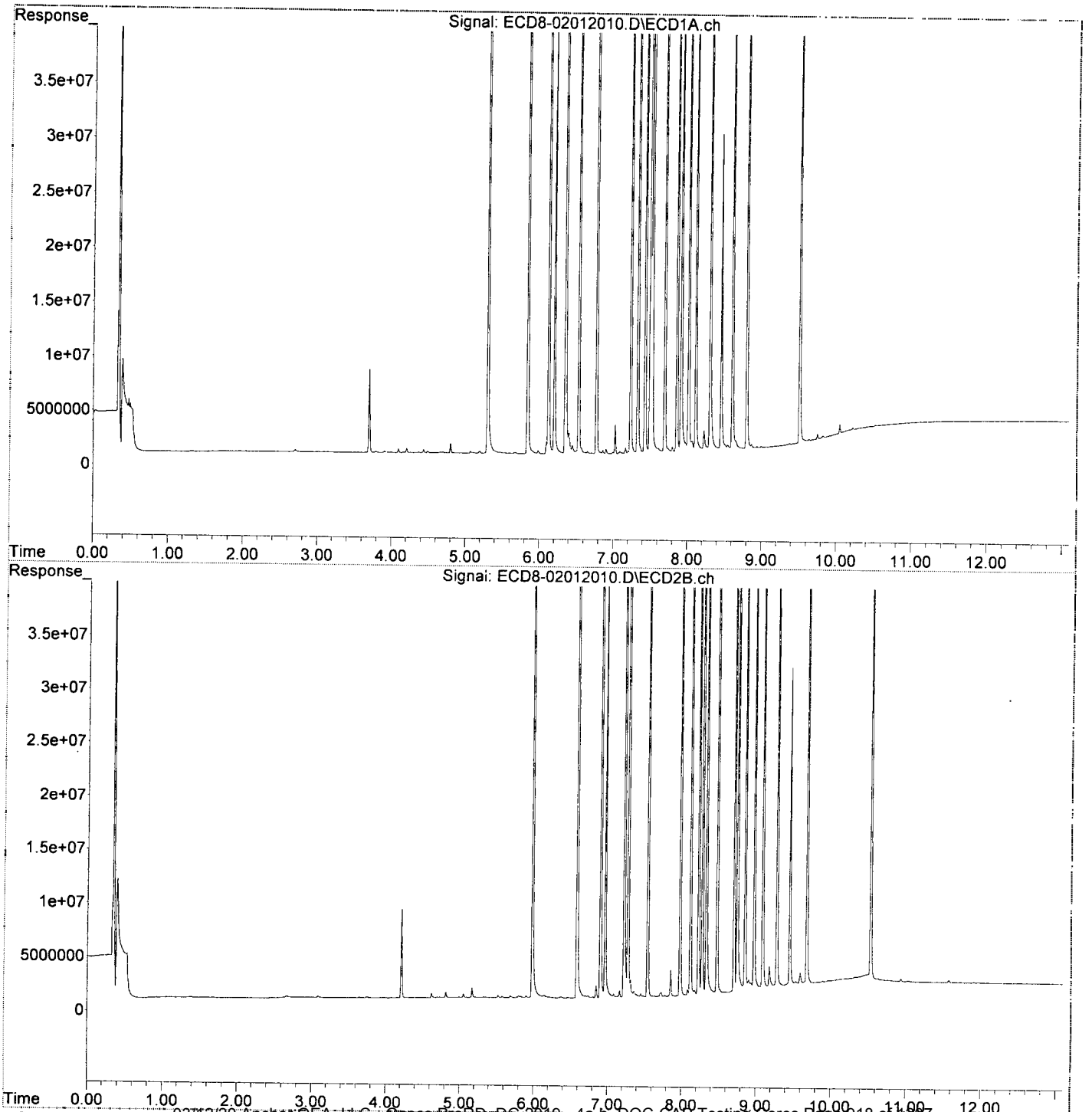
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.981	85829808	85149324	25.617	23.448
22)	S DCBP (S)	9.507	10.537	66452642	54017910	27.578	25.565
	Target Compounds						
2)	a-BHC	5.836	6.583	121.6E6	119.2E6	32.565	31.414
3)	g-BHC	6.118	6.901	105.7E6	107.9E6	33.104	32.700
4)	b-BHC	6.197	6.966	43268809	42826341	30.764	29.138
5)	Heptachlor	6.529	7.274	103.8E6	104.5E6	34.777	34.470
6)	d-BHC	6.345	7.220	93700875	100.9E6	30.815	31.663
7)	Aldrin	6.768	7.541	101.9E6	103.3E6	30.419	29.748
8)	Heptachlo...	7.229	7.978	90603826	90693091	29.603	28.728
9)	trans-Chl...	7.325	8.118	92344635	94107374	29.151	28.828
10)	cis-Chlor...	7.422	8.225	91013817	90991019	29.049	27.652
11)	Endosulfa...	7.518	8.277	85444422	85653357	29.003	28.636
12)	4,4'-DDE	7.490	8.331	82679641	86764148	27.009	27.132
13)	Dieldrin	7.690	8.477	95868803	95883928	29.993	29.444
14)	Endrin	7.854	8.706	82858624	79399830	33.541	34.752
15)	4,4'-DDD	7.911	8.749	63377806	65177226	30.509	31.320
16)	Endosulfa...	8.011	8.853	73342261	73030196	29.368	30.180
17)	4,4'-DDT	8.108	8.975	68097447	70533268	30.692	32.246
18)	Endrin Al...	8.302	9.089	61776811	60959956	27.091	25.194
19)	Endosulfa...	8.603	9.281	70013419	70158024	28.463	29.519
20)	Methoxychlor	8.452	9.454	28980569	30163827	25.668	29.626
21)	Endrin Ke...	8.797	9.683	85585307	79449385	29.321	30.468
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:42:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Jan 09 17:17:47 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

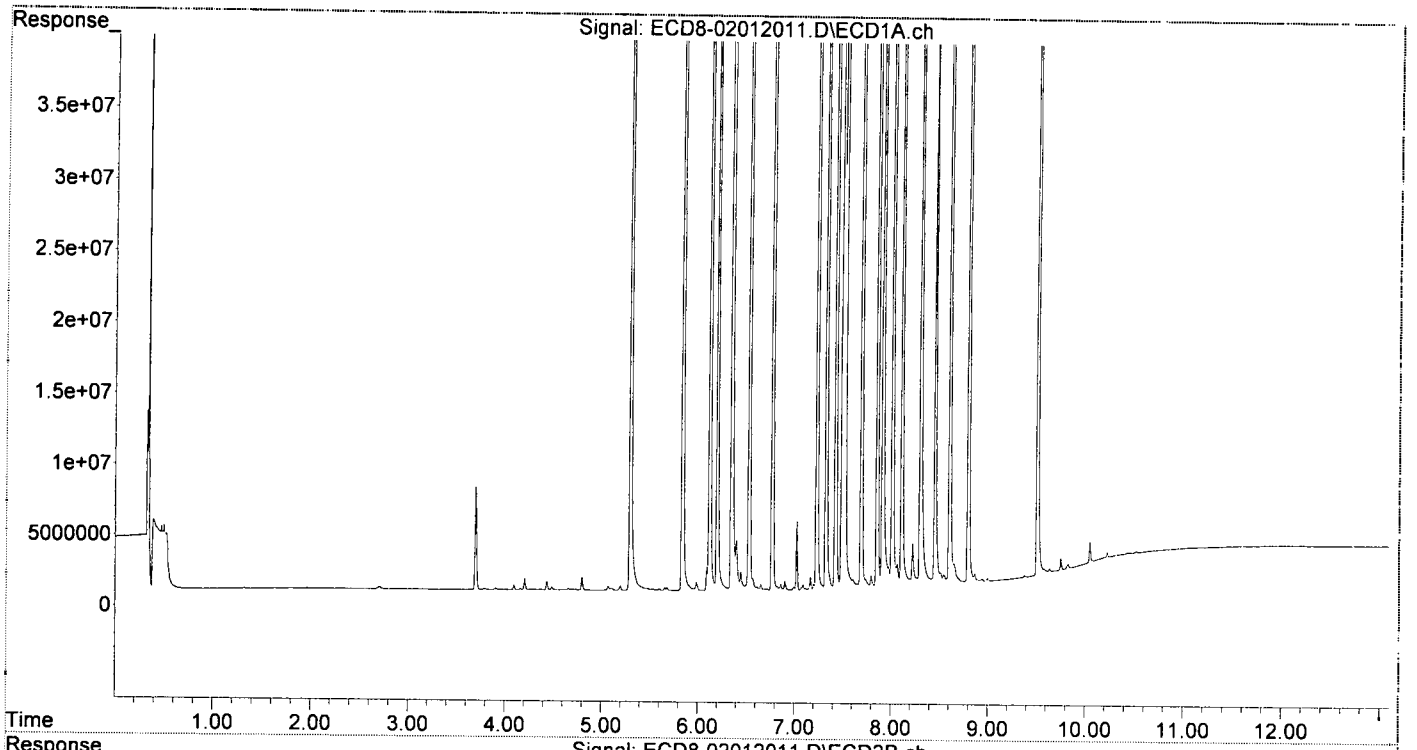
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.297	5.981	160.2E6	168.3E6	47.813	46.342
22) S	DCBP (S)	9.507	10.537	123.4E6	103.8E6	50.912	48.124
	Target Compounds						
2)	a-BHC	5.837	6.585	224.9E6	233.3E6	60.209	58.407
3)	g-BHC	6.119	6.902	203.3E6	211.8E6	63.651	61.548
4)	b-BHC	6.197	6.966	81866401	85296235	58.207	58.033
5)	Heptachlor	6.529	7.276	192.3E6	210.9E6	64.444	69.577
6)	d-BHC	6.346	7.221	182.4E6	192.9E6	58.189	57.382
7)	Aldrin	6.769	7.542	195.5E6	195.8E6	58.338	54.502
8)	Heptachlo...	7.230	7.979	168.2E6	178.9E6	54.941	56.674
9)	trans-Chl...	7.326	8.119	181.3E6	181.2E6	57.246	55.515
10)	cis-Chlor...	7.423	8.226	167.4E6	173.0E6	53.436	52.585
11)	Endosulfa...	7.518	8.277	163.9E6	167.4E6	55.647	55.978
12)	4,4'-DDE	7.490	8.332	168.0E6	175.2E6	53.709	52.032
13)	Dieldrin	7.691	8.478	179.5E6	192.1E6	56.152	56.758
14)	Endrin	7.854	8.706	155.0E6	154.0E6	62.763	63.992
15)	4,4'-DDD	7.910	8.748	125.3E6	136.5E6	60.321	61.291
16)	Endosulfa...	8.011	8.854	141.9E6	146.2E6	56.802	57.675
17)	4,4'-DDT	8.109	8.975	134.8E6	138.4E6	60.756	59.598
18)	Endrin Al...	8.302	9.090	118.6E6	123.5E6	51.995	51.032
19)	Endosulfa...	8.603	9.281	133.9E6	135.1E6	54.419	54.356
20)	Methoxychlor	8.452	9.453	56743855	60278479	50.258	56.326
21)	Endrin Ke...	8.797	9.682	159.8E6	156.7E6	54.742	57.609
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

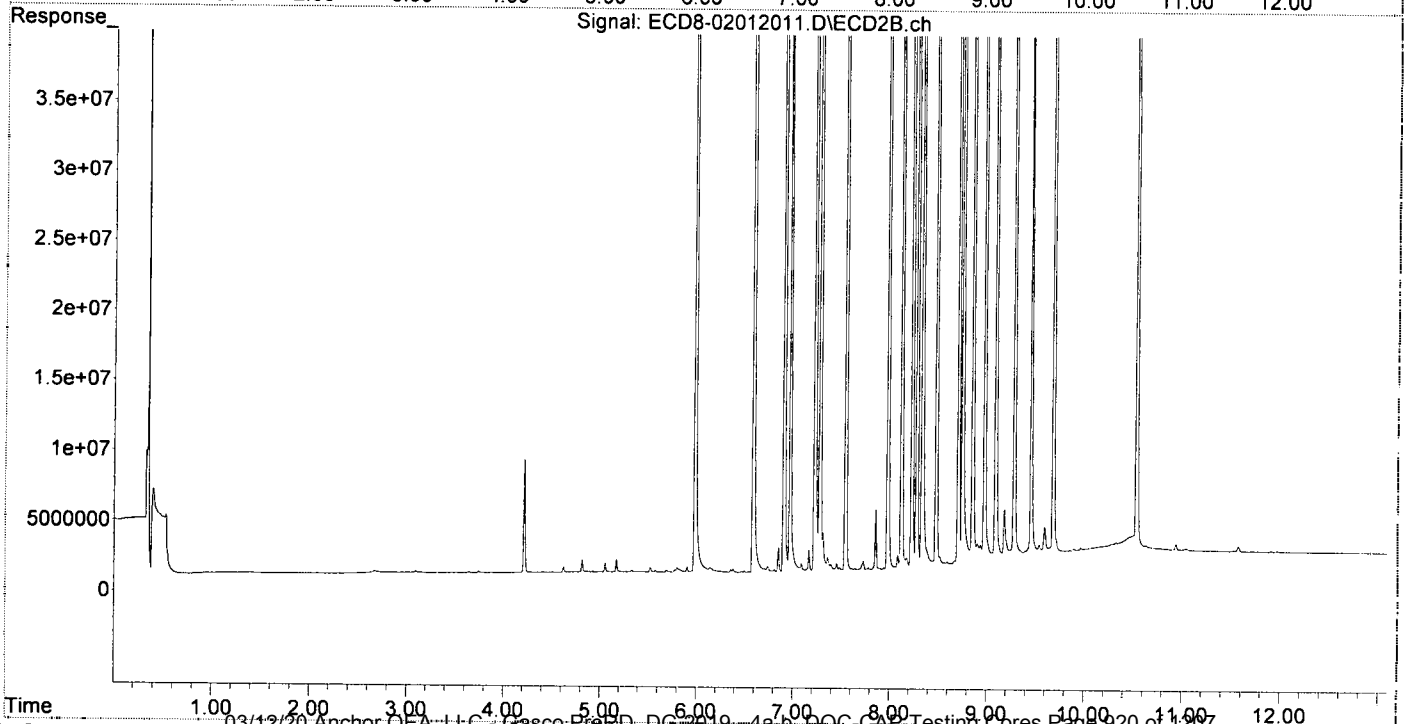
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:42:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Jan 09 17:17:47 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

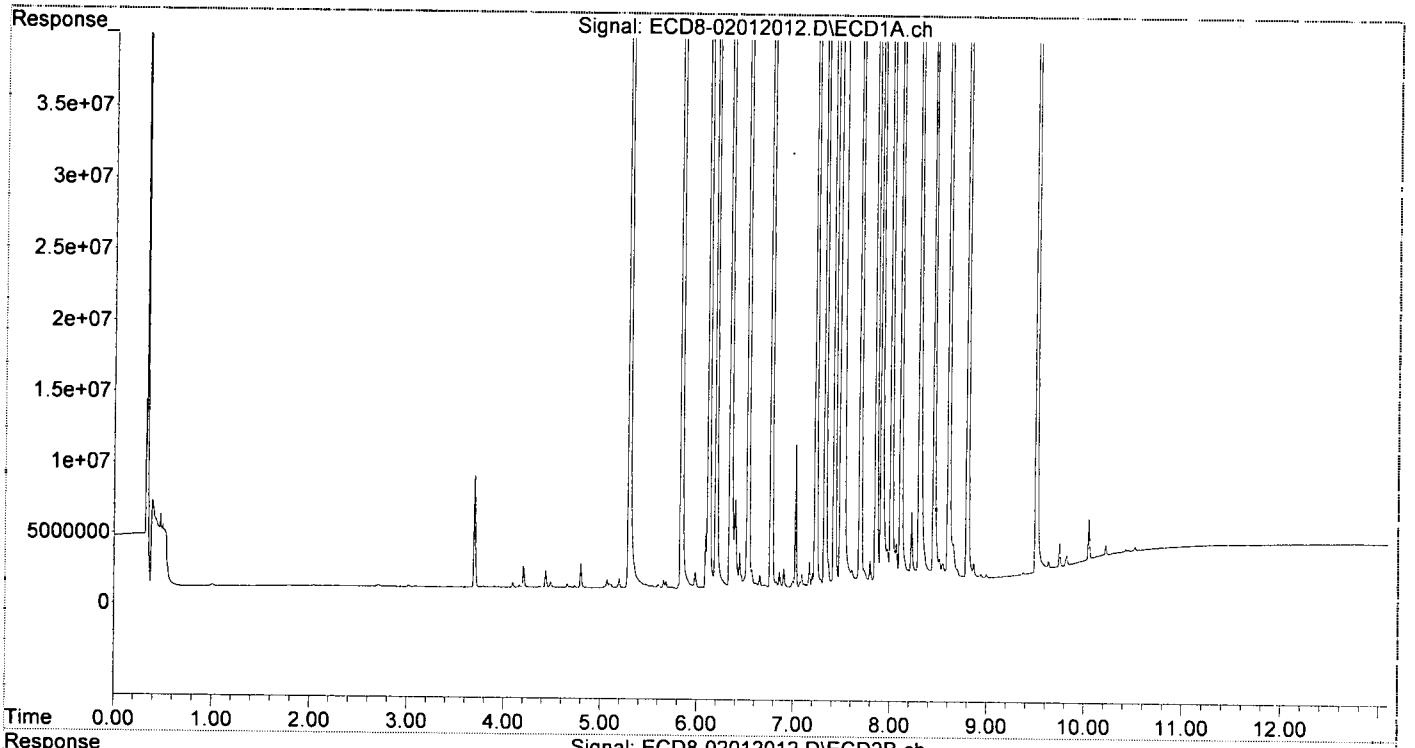
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.298	5.982	355.4E6	386.4E6	106.080	106.420
22)	S DCBP (S)	9.507	10.537	280.1E6	240.0E6	113.028	104.904
	Target Compounds						
2)	a-BHC	5.837	6.585	509.4E6	553.7E6	136.390	123.895
3)	g-BHC	6.120	6.902	435.9E6	491.3E6	136.505	130.080
4)	b-BHC	6.197	6.966	185.8E6	196.8E6	132.106	133.903
5)	Heptachlor	6.529	7.276	416.3E6	477.0E6	139.520	157.372
6)	d-BHC	6.345	7.221	419.9E6	472.2E6	125.268	124.232
7)	Aldrin	6.769	7.542	420.9E6	472.0E6	125.625	120.670
8)	Heptachlo...	7.229	7.979	380.6E6	404.3E6	124.368	128.057
9)	trans-Chl...	7.325	8.119	392.8E6	432.7E6	123.984	132.537
10)	cis-Chlor...	7.422	8.226	377.5E6	395.1E6	120.481	120.061
11)	Endosulfa...	7.517	8.277	349.5E6	392.5E6	118.629	131.230
12)	4,4'-DDE	7.489	8.331	378.7E6	405.9E6	115.636	108.497
13)	Dieldrin	7.690	8.478	402.8E6	425.1E6	126.020	116.163
14)	Endrin	7.854	8.706	338.4E6	354.5E6	136.997	131.983
15)	4,4'-DDD	7.909	8.747	297.7E6	330.1E6	143.286	129.196
16)	Endosulfa...	8.010	8.853	331.9E6	341.9E6	132.896	121.974
17)	4,4'-DDT	8.108	8.975	298.8E6	340.3E6	134.676	127.973
18)	Endrin Al...	8.301	9.090	258.6E6	290.0E6	113.407	119.845
19)	Endosulfa...	8.603	9.281	304.5E6	315.4E6	123.771	114.670
20)	Methoxychlor	8.450	9.453	133.1E6	149.0E6	117.904	123.547
21)	Endrin Ke...	8.797	9.683	366.8E6	363.7E6	125.660	121.406
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

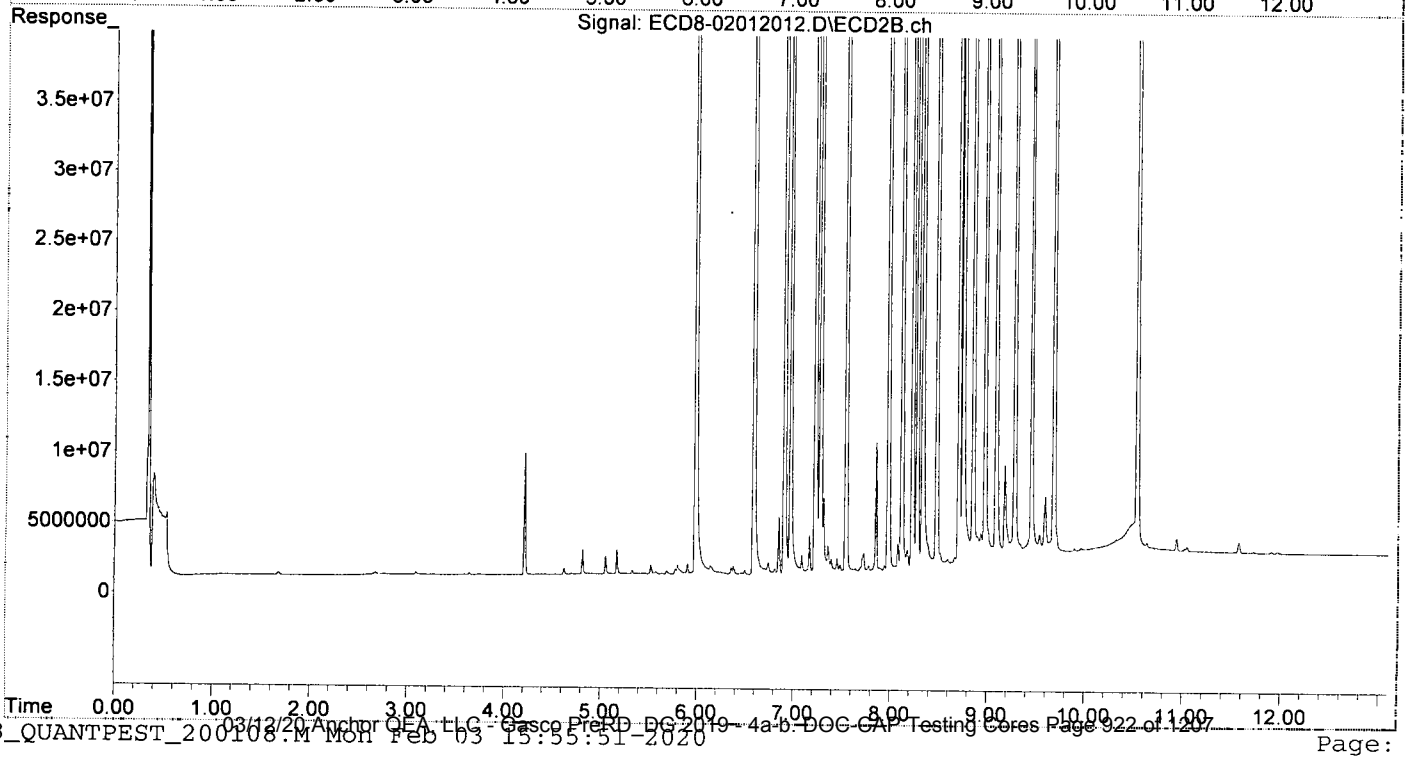
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:50:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

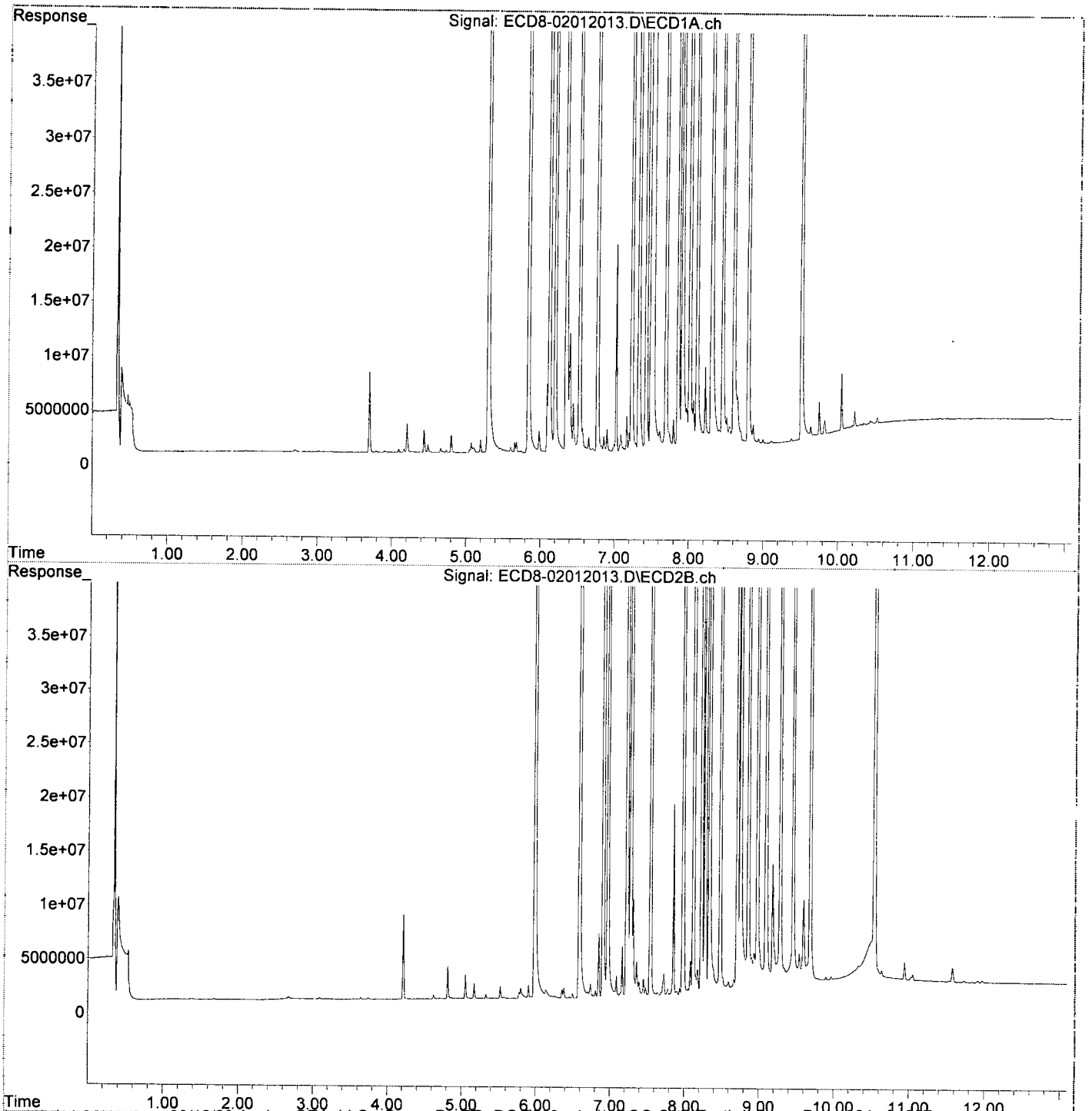
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.297	5.981	683.0E6	808.5E6	203.858	222.644
22)	S DCBP (S)	9.507	10.537	554.4E6	477.6E6	215.222	191.382
	Target Compounds						
2)	a-BHC	5.837	6.585	1000.4E6	1133.4E6	267.852	219.660
3)	g-BHC	6.119	6.902	881.5E6	980.3E6	276.016	229.963
4)	b-BHC	6.196	6.965	344.6E6	391.9E6	244.988	266.622
5)	Heptachlor	6.529	7.275	827.5E6	966.0E6	277.356	318.726
6)	d-BHC	6.344	7.220	826.3E6	939.7E6	225.053	214.181
7)	Aldrin	6.768	7.542	802.5E6	928.8E6	239.505	213.235
8)	Heptachlo...	7.229	7.979	732.6E6	788.7E6	239.361	249.844
9)	trans-Chl...	7.325	8.119	764.5E6	821.8E6	241.328	251.753
10)	cis-Chlor...	7.422	8.226	729.7E6	792.8E6	232.891	240.922
11)	Endosulfa...	7.517	8.277	669.0E6	733.7E6	227.067	245.303
12)	4,4'-DDE	7.488	8.331	725.7E6	835.1E6	207.825	193.980
13)	Dieldrin	7.690	8.478	786.9E6	871.2E6	246.188	212.340
14)	Endrin	7.854	8.705	655.2E6	738.6E6	265.209	237.000
15)	4,4'-DDD	7.909	8.749	592.3E6	679.7E6	285.131	225.207
16)	Endosulfa...	8.011	8.853	596.6E6	684.8E6	238.912	214.590
17)	4,4'-DDT	8.108	8.975	627.2E6	706.5E6	282.677	225.118
18)	Endrin Al...	8.301	9.090	520.7E6	585.1E6	228.338	241.805
19)	Endosulfa...	8.603	9.281	590.5E6	660.6E6	240.060	208.614
20)	Methoxychlor	8.450	9.453	273.2E6	304.3E6	242.007	217.690
21)	Endrin Ke...	8.797	9.683	708.8E6	737.0E6	242.831	216.273
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:50:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:52:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 21160

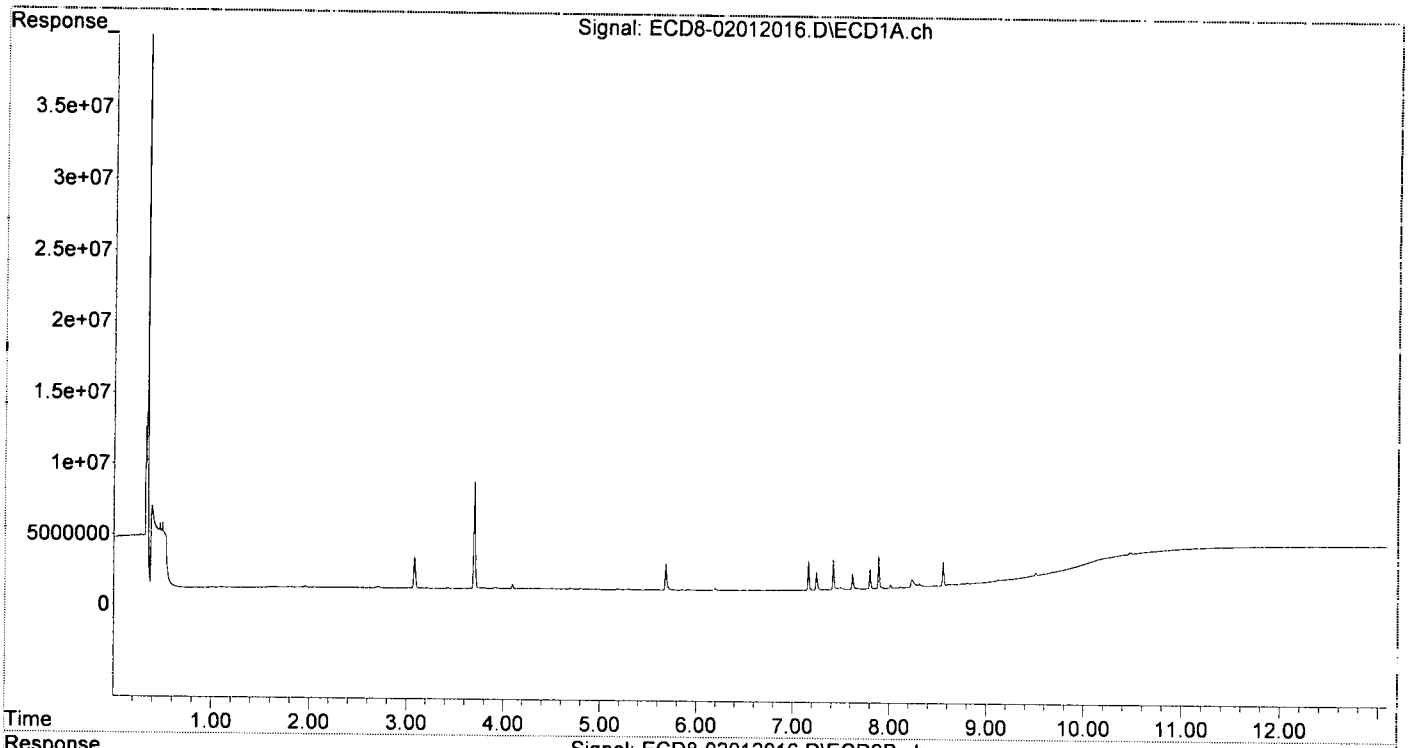
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	3.080	3.680	2278541	2594123	0.590	0.586
24)		Hexachlor...	5.681	6.450	1894604	1616133	0.448	0.363
25)		Oxychlordane	7.160	7.908	2078442	1817597	0.589	0.503
26)		2,4'-DDE	7.243	8.113	1290069	1200073	0.472	0.516
27)		trans-Non...	7.417	8.182	2168811	2004659	0.563	0.512
28)		2,4'-DDD	7.615	8.487	1111537	960869	0.540	0.423
29)		2,4'-DDT	7.797	8.710	1418724	1210132	0.588	0.501
30)		cis-Nonac...	7.887	8.749	2296885	2084280	0.639	0.570
31)		Mirex	8.552	9.675	1693083	1475836	0.543	0.334 #
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

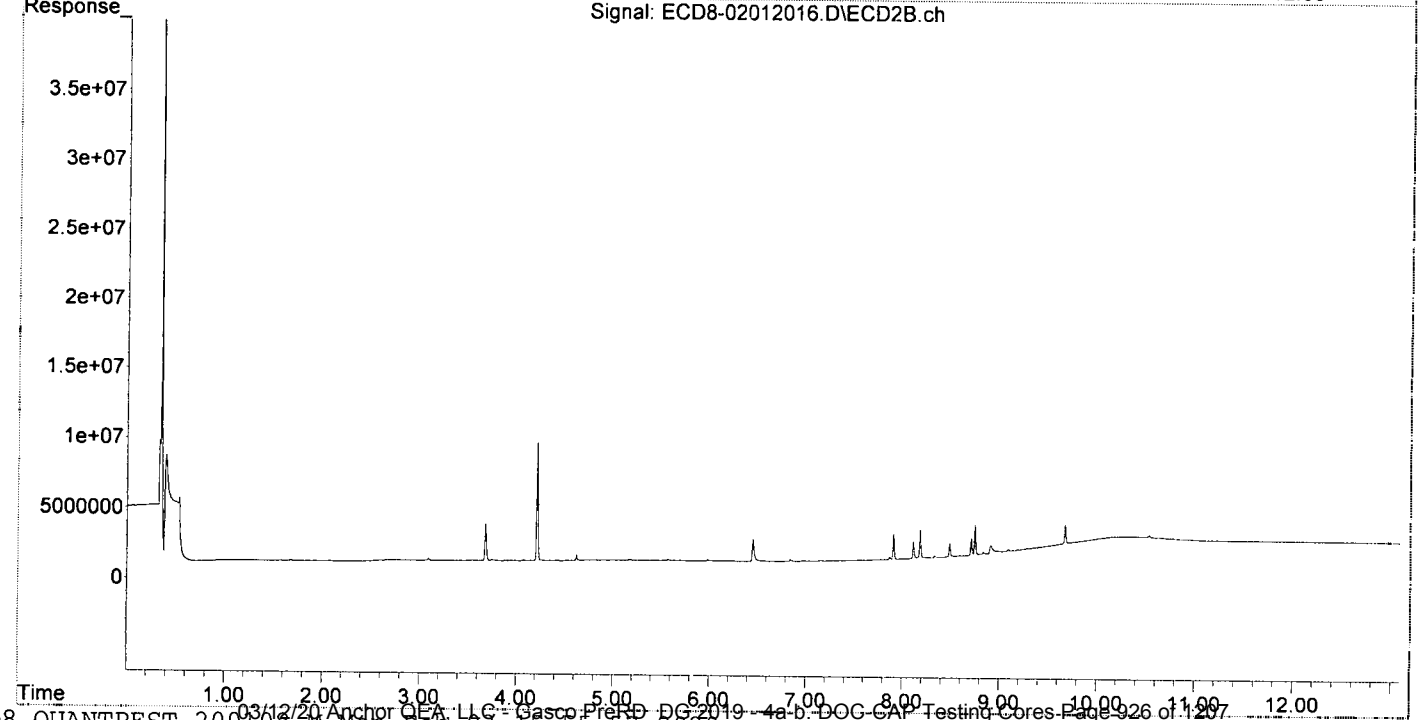
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:52:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:53:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

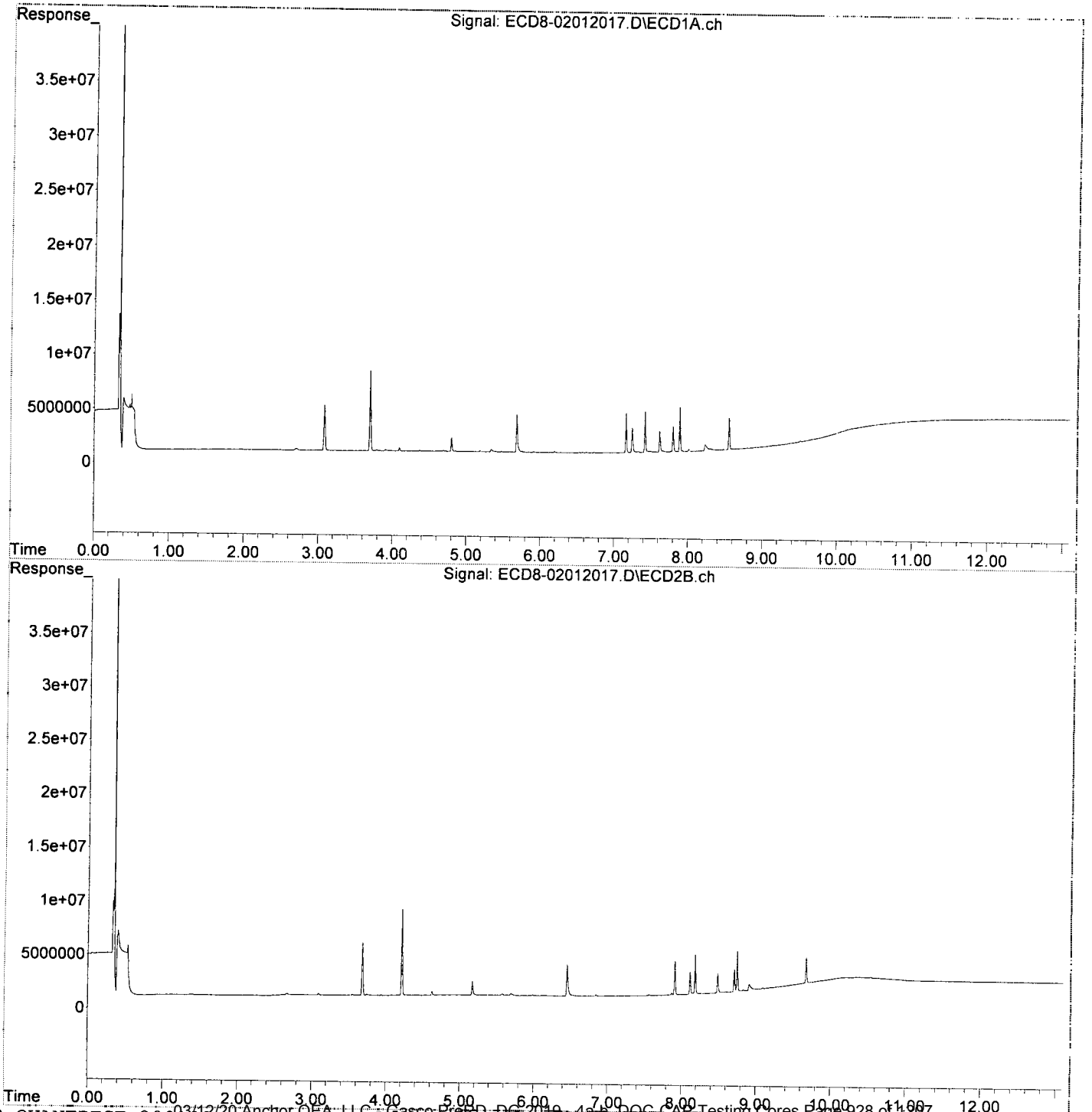
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.080	3.679	4206156	4878910	1.189	1.102
24)	Hexachlor...	5.680	6.450	3451879	2946247	0.938	0.794
25)	Oxychlordane	7.159	7.908	3626338	3174792	1.171	1.036
26)	2,4'-DDE	7.243	8.112	2295081	2104301	0.943	0.904
27)	trans-Non...	7.417	8.182	3768972	3680280	1.101	1.087
28)	2,4'-DDD	7.614	8.486	1934222	1795089	1.062	0.972
29)	2,4'-DDT	7.796	8.709	2374152	2100185	1.103	1.012
30)	cis-Nonac...	7.886	8.748	4089263	3801985	1.137	1.039
31)	Mirex	8.552	9.674	2918797	2854711	1.138	1.077
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:53:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

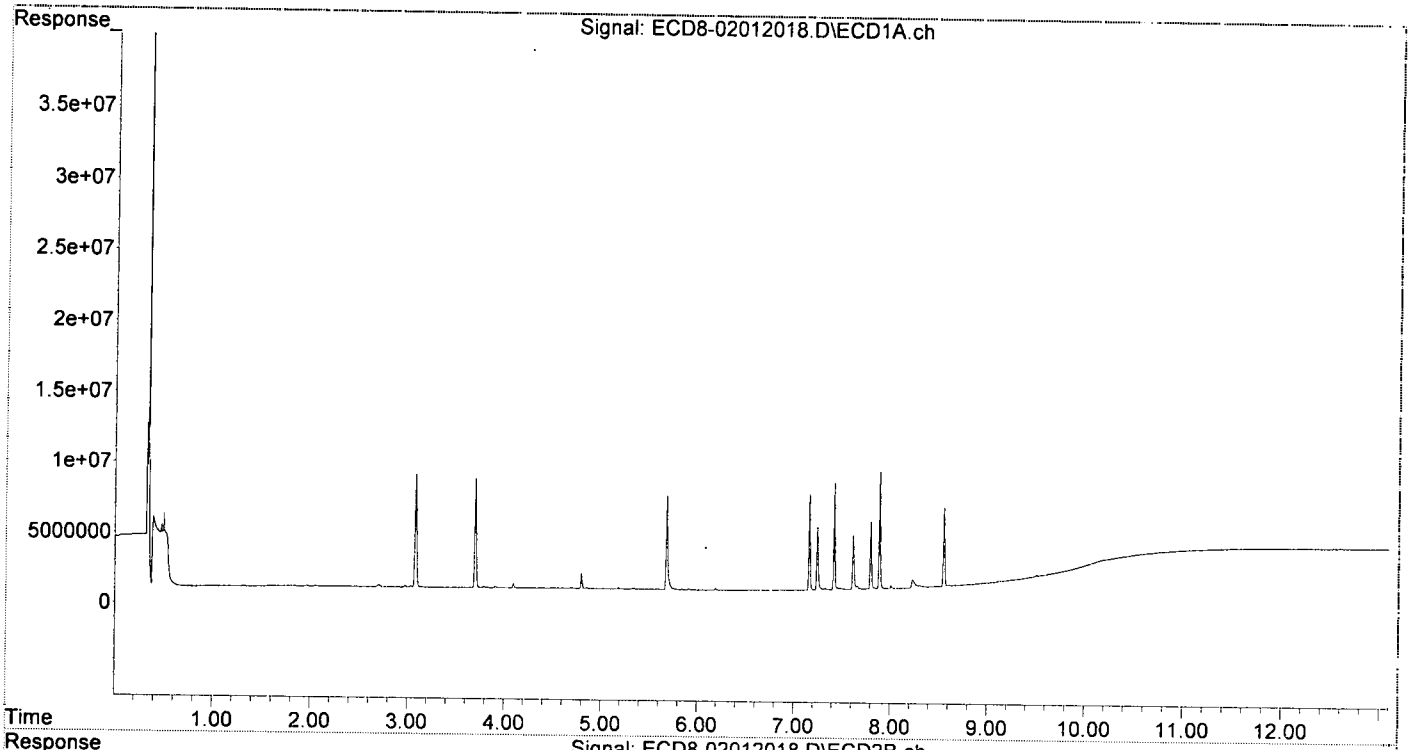
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.080	3.680	7973044	9306742	2.362	2.102
24)	Hexachlor...	5.680	6.449	6640927	5773353	1.943	1.709
25)	Oxychlordane	7.158	7.907	6769962	6050162	2.356	2.165
26)	2,4'-DDE	7.241	8.112	4488919	4260806	1.970	1.831
27)	trans-Non...	7.416	8.182	7569675	6830472	2.379	2.166
28)	2,4'-DDD	7.614	8.485	3838920	3680145	2.272	2.211
29)	2,4'-DDT	7.795	8.709	4727347	4187285	2.371	2.209
30)	cis-Nonac...	7.886	8.748	8283514	7352547	2.303	2.009
31)	Mirex	8.551	9.674	5534484	4870687	2.406	2.161
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

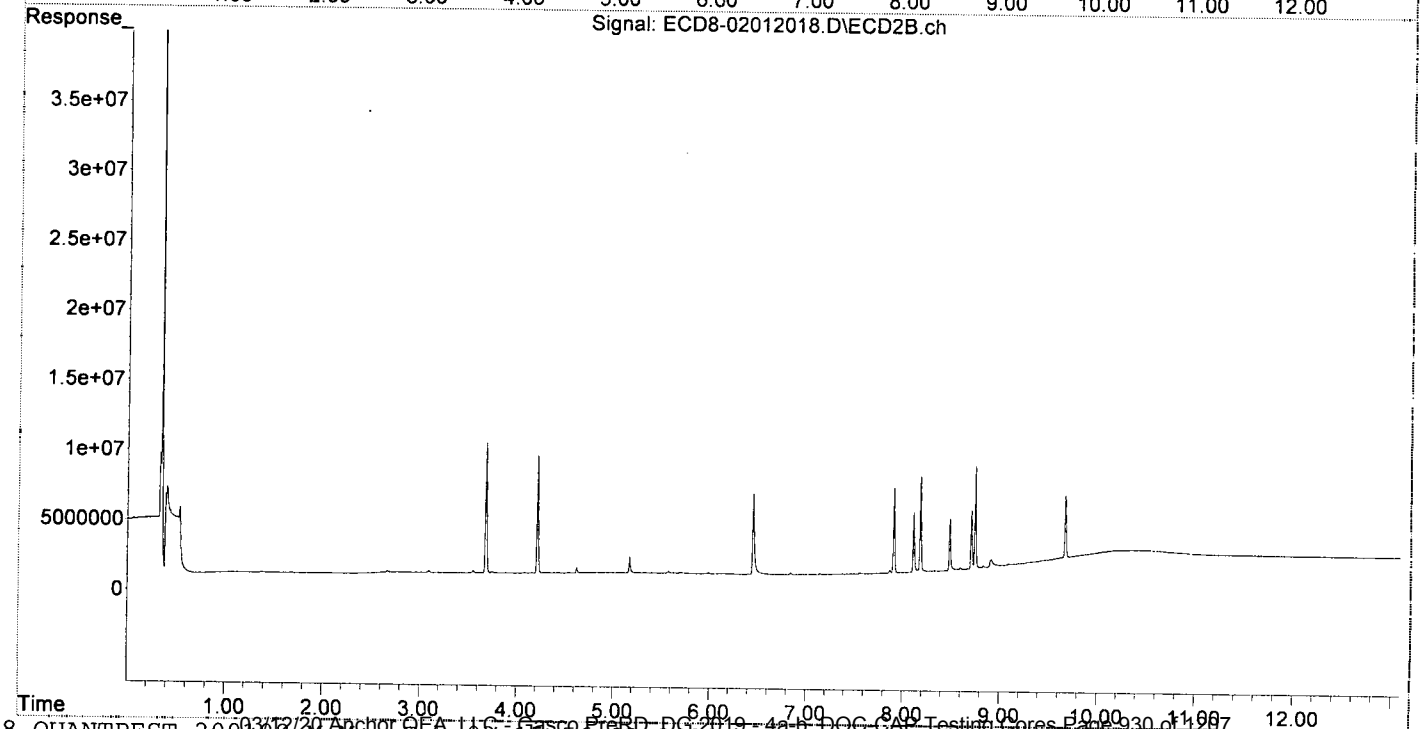
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

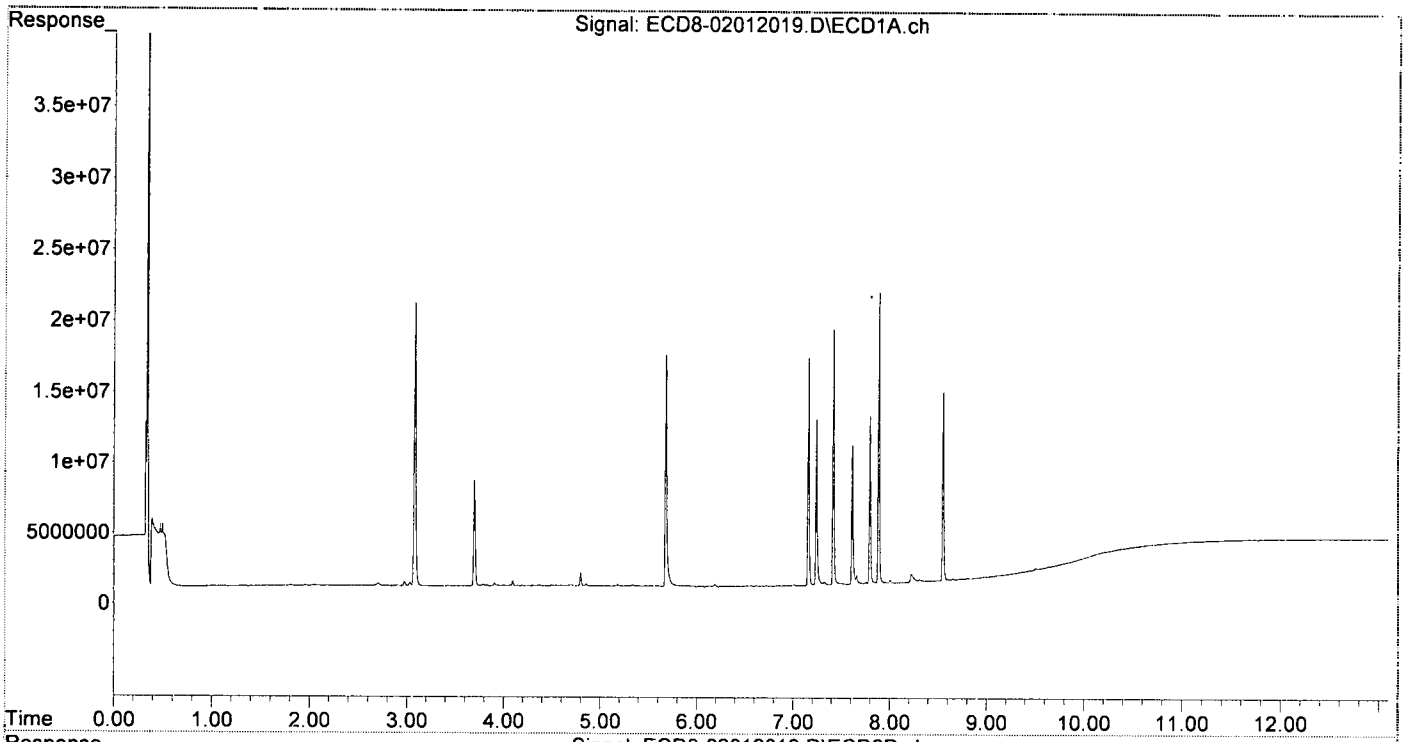
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.081	3.680	20008341	23748664	6.117	5.363
24)	Hexachlor...	5.680	6.449	16447257	15411069	5.038	4.817
25)	Oxychlordane	7.159	7.908	16184302	15509955	5.911	5.869
26)	2,4'-DDE	7.241	8.111	11743726	10906405	5.373	4.686
27)	trans-Non...	7.416	8.182	18115649	16987074	5.929	5.638
28)	2,4'-DDD	7.613	8.485	9882639	9298557	6.114	5.886
29)	2,4'-DDT	7.795	8.709	11872885	11358035	6.227	6.298
30)	cis-Nonac...	7.886	8.748	20605958	19585336	5.730	5.353
31)	Mirex	8.551	9.674	13322527	11467148	6.181	5.694
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

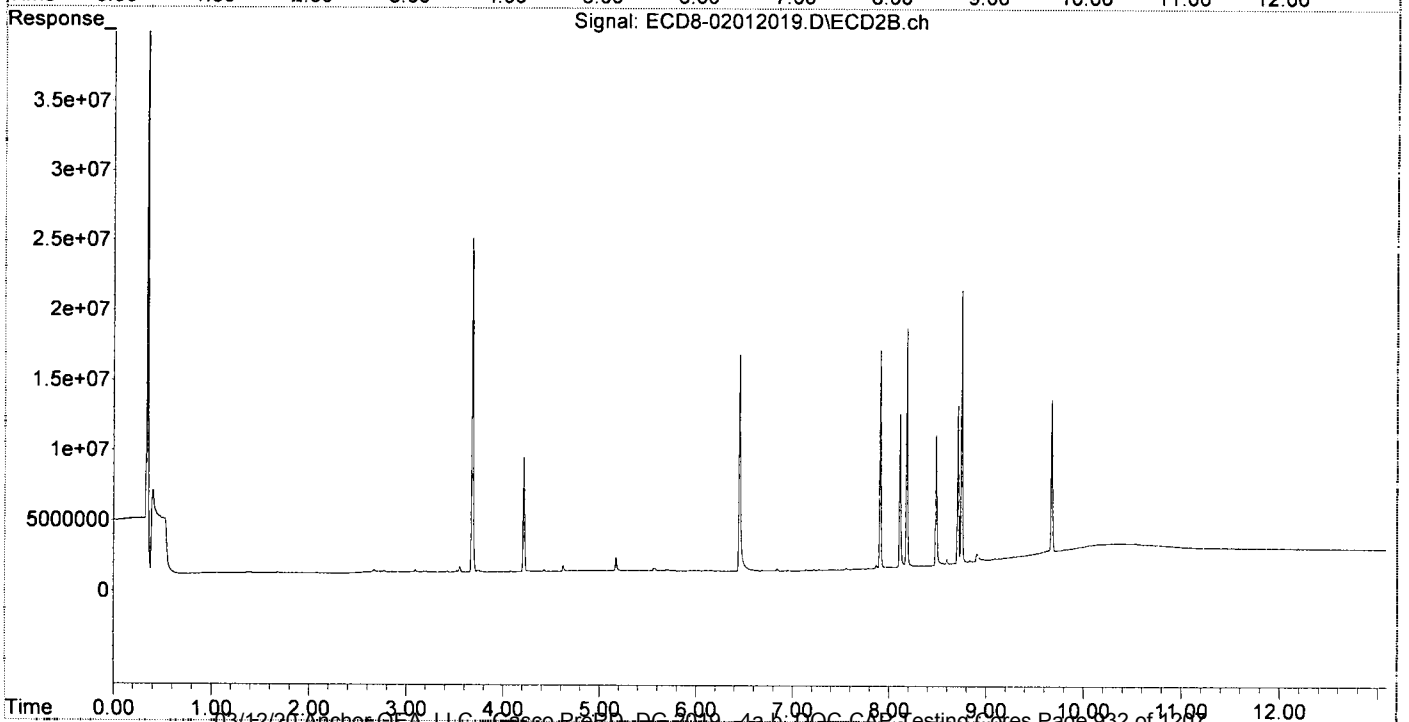
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20.

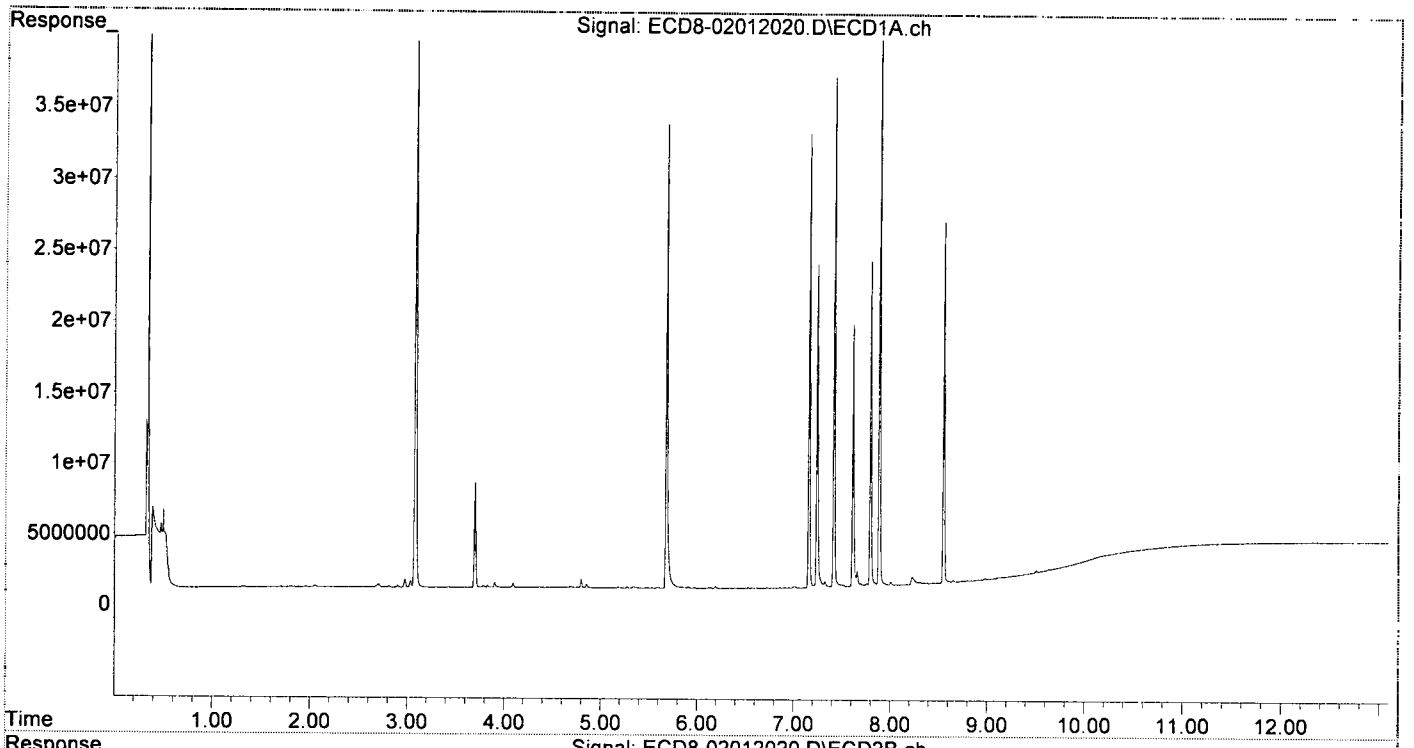
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.081	3.680	38377580	47088422	11.877	10.633
24)	Hexachlor...	5.679	6.449	32647902	28525390	10.167	9.020
25)	Oxychlordane	7.158	7.908	31984005	29890292	11.910	11.474
26)	2,4'-DDE	7.240	8.112	22804364	21958095	10.576	9.435
27)	trans-Non...	7.416	8.182	35883154	34402162	11.922	11.557
28)	2,4'-DDD	7.613	8.484	18534620	18062773	11.622	11.566
29)	2,4'-DDT	7.795	8.708	22928210	22137862	12.206	12.378
30)	cis-Nonac...	7.886	8.748	40436692	38325797	11.245	10.474
31)	Mirex	8.551	9.673	25430296	20962075	11.052	10.743
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

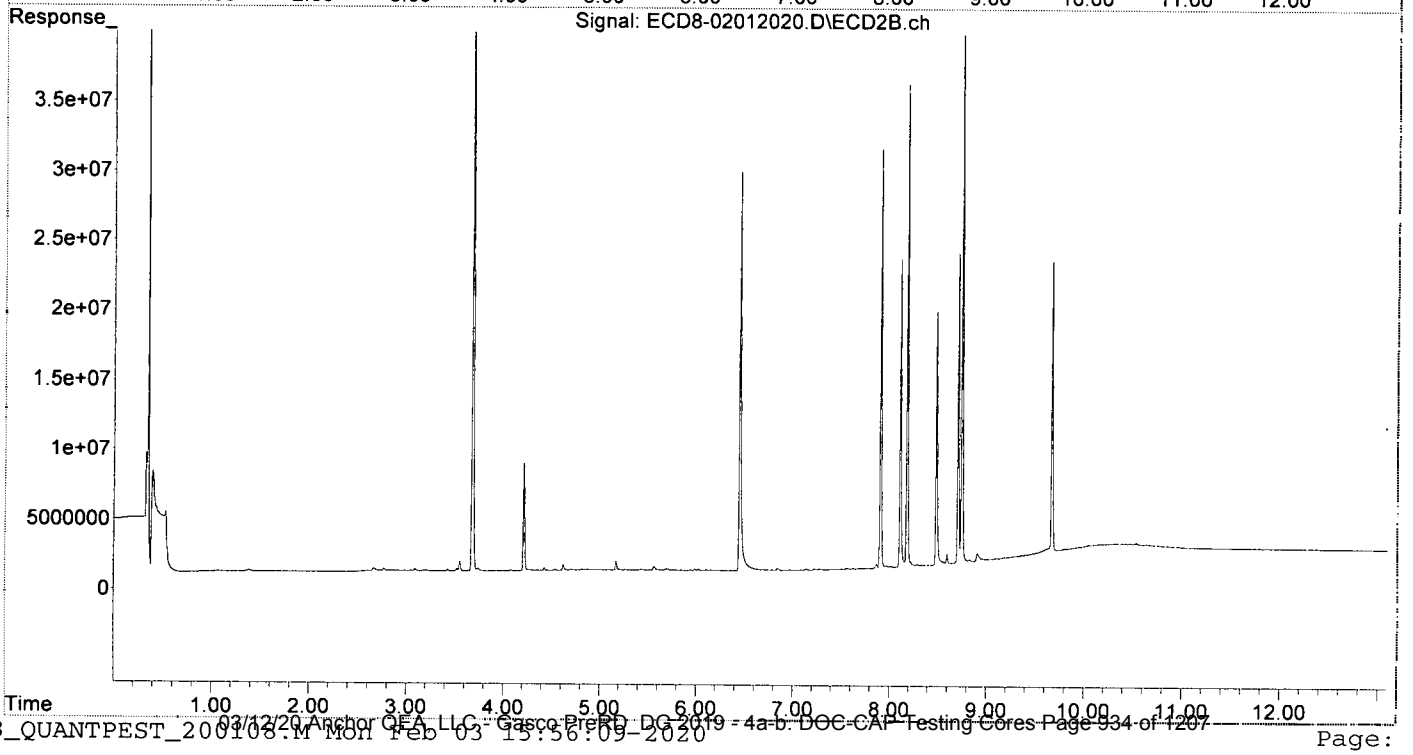
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/4/20

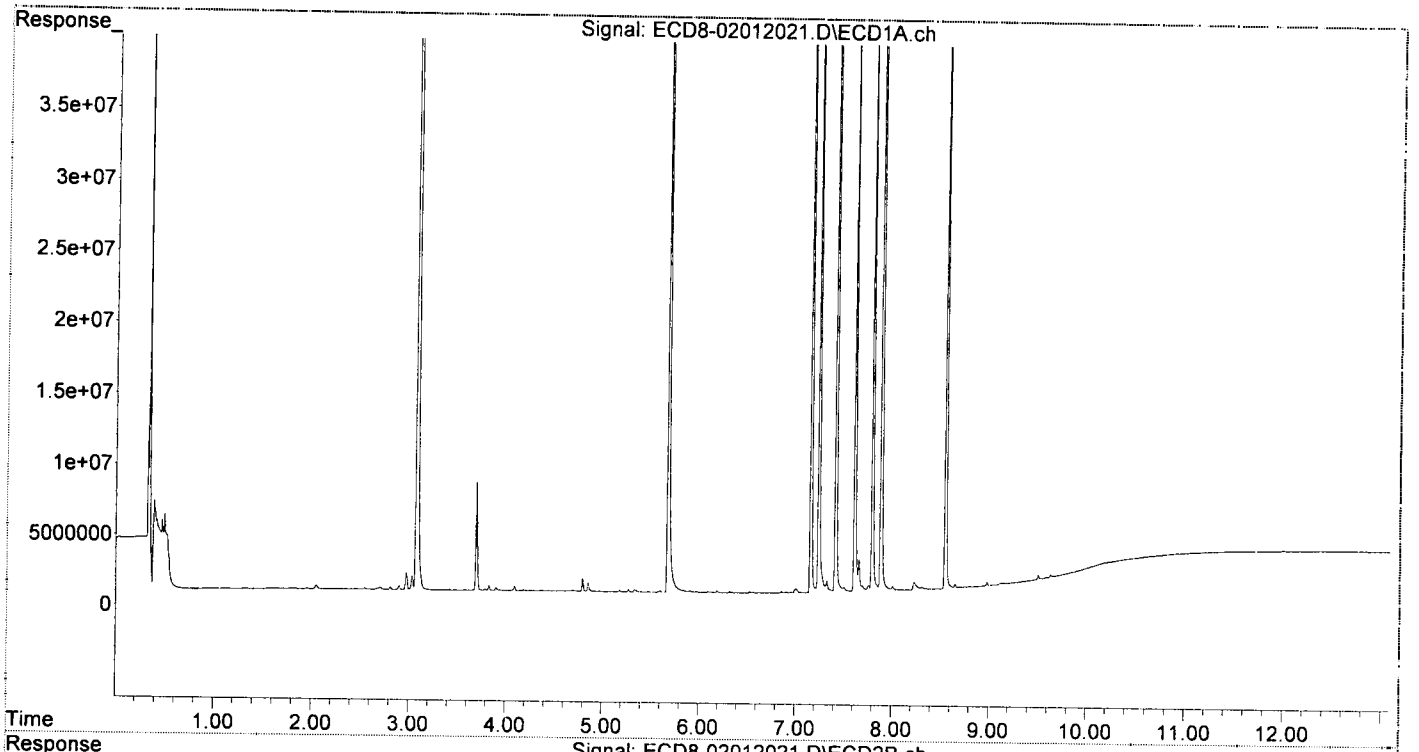
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.081	3.680	87282581	109.6E6	27.383	24.749
24)	Hexachlor...	5.679	6.449	77942708	72282140	24.622	22.836
25)	Oxychlordane	7.158	7.908	72990996	71584795	27.667	27.556
26)	2,4'-DDE	7.240	8.111	52202377	51113359	24.496	21.963
27)	trans-Non...	7.416	8.181	81812536	80789047	27.484	27.123
28)	2,4'-DDD	7.612	8.485	42203429	42962025	26.742	27.382
29)	2,4'-DDT	7.794	8.708	53607879	53723446	28.869	29.763
30)	cis-Nonac...	7.887	8.748	91550344	90384875	25.458	24.702
31)	Mirex	8.552	9.673	55829392	47784220	26.793	24.787
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

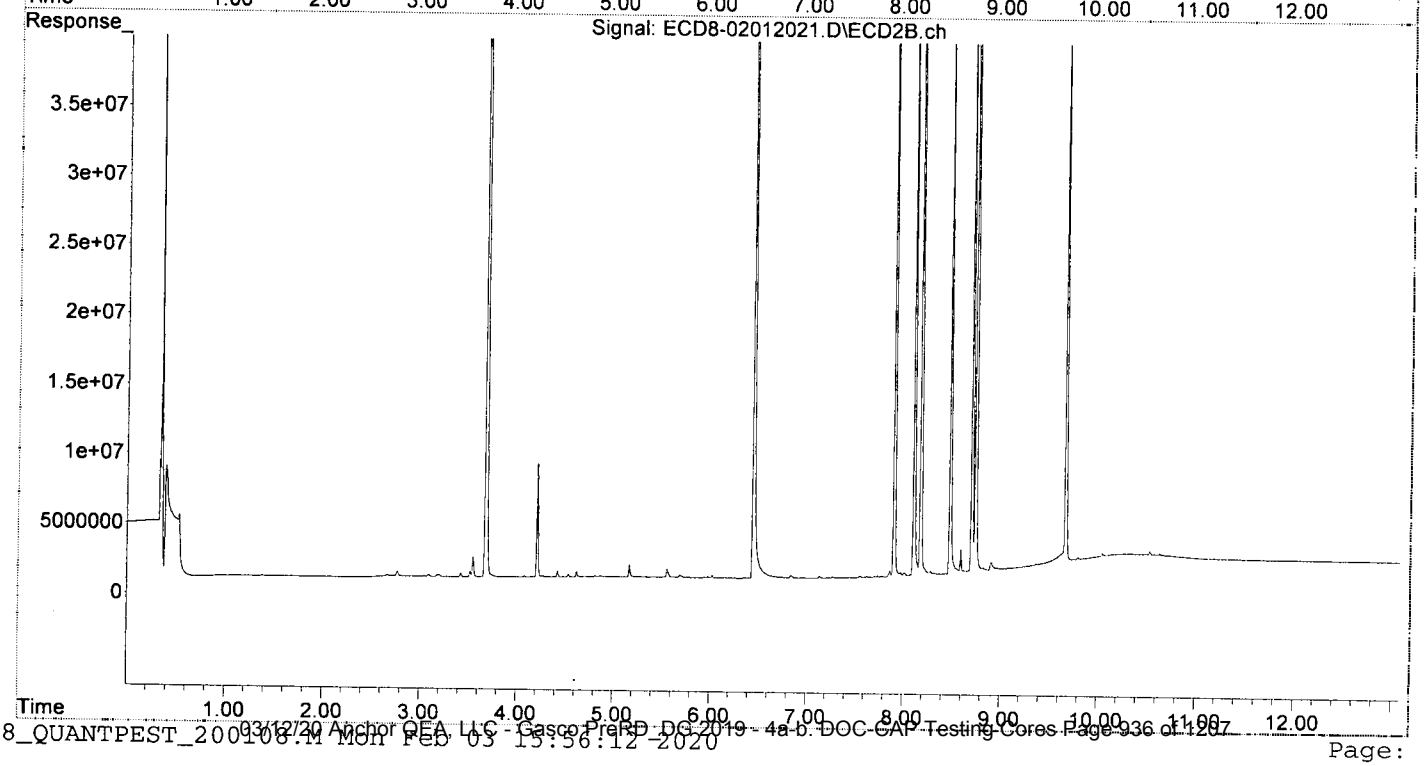
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

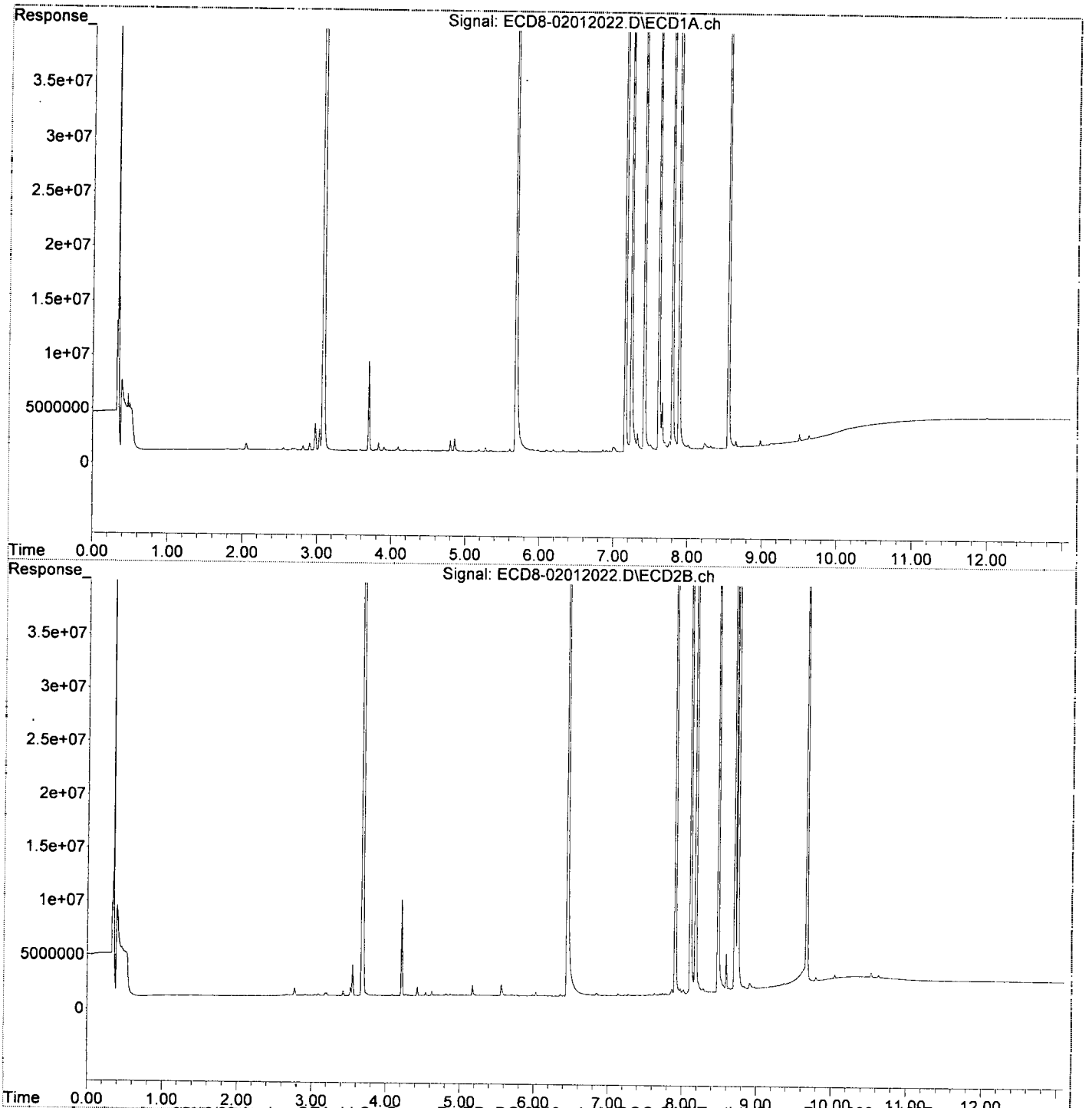
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.080	3.680	186.6E6	249.2E6	59.677	56.267
24)	Hexachlor...	5.679	6.448	165.7E6	168.5E6	53.128	52.182
25)	Oxychlordane	7.158	7.907	160.5E6	160.7E6	62.259	61.123
26)	2,4'-DDE	7.239	8.110	116.4E6	117.1E6	55.345	50.334
27)	trans-Non...	7.415	8.182	177.0E6	179.2E6	60.066	59.244
28)	2,4'-DDD	7.611	8.484	93133543	99247235	59.533	61.540
29)	2,4'-DDT	7.793	8.708	117.1E6	122.8E6	63.857	65.773
30)	cis-Nonac...	7.885	8.748	200.1E6	209.3E6	55.640	57.189
31)	Mirex	8.551	9.674	117.1E6	104.8E6	56.532	53.655
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:51:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

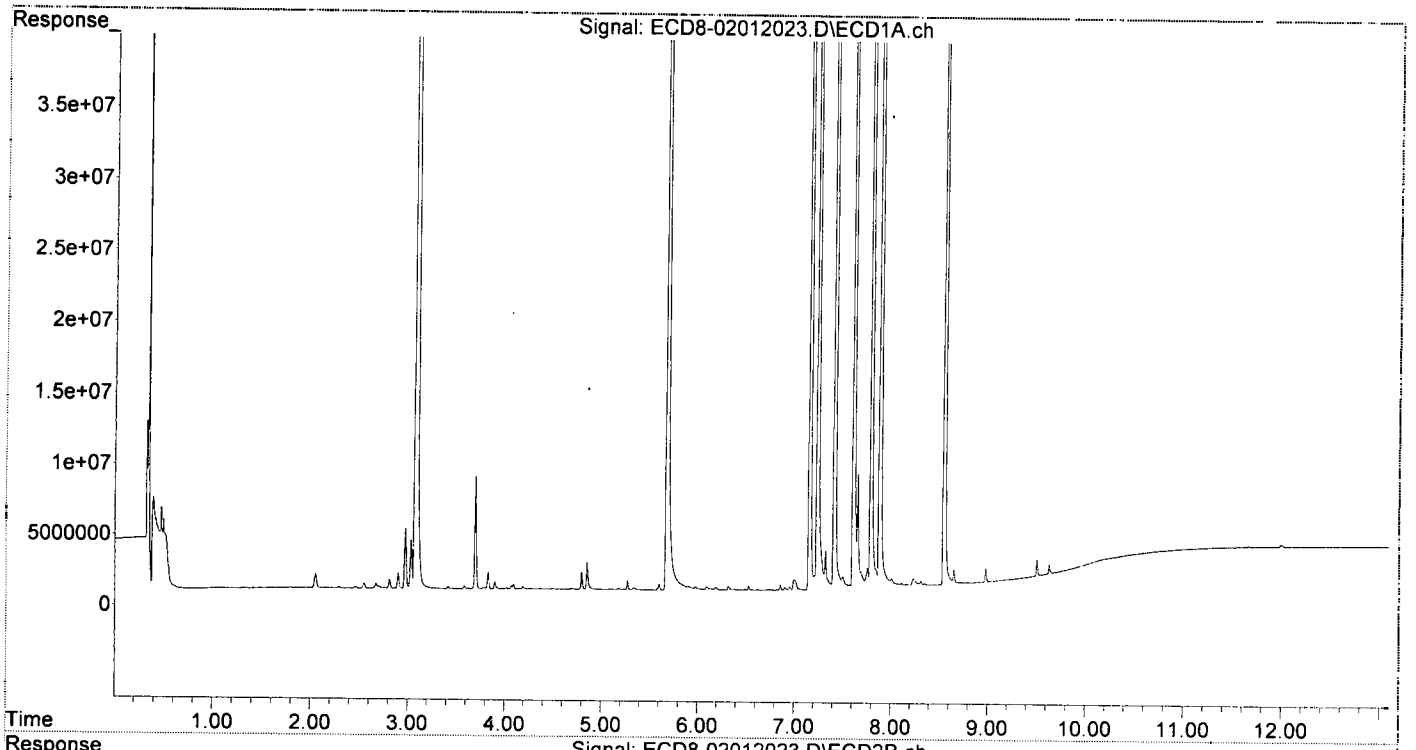
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.081	3.681	351.0E6	469.1E6	115.847	105.921
24)	Hexachlor...	5.679	6.448	320.6E6	327.6E6	105.137	97.947
25)	Oxychlordane	7.158	7.907	299.8E6	312.8E6	120.398	116.095
26)	2,4'-DDE	7.239	8.110	223.0E6	238.4E6	108.176	102.455
27)	trans-Non...	7.415	8.181	344.0E6	367.6E6	118.318	117.687
28)	2,4'-DDD	7.611	8.484	188.9E6	195.5E6	122.173	115.717
29)	2,4'-DDT	7.794	8.708	229.9E6	253.6E6	127.470	128.024
30)	cis-Nonac...	7.885	8.748	379.3E6	398.9E6	105.487	109.031
31)	Mirex	8.551	9.674	232.7E6	204.2E6	112.646	101.092
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

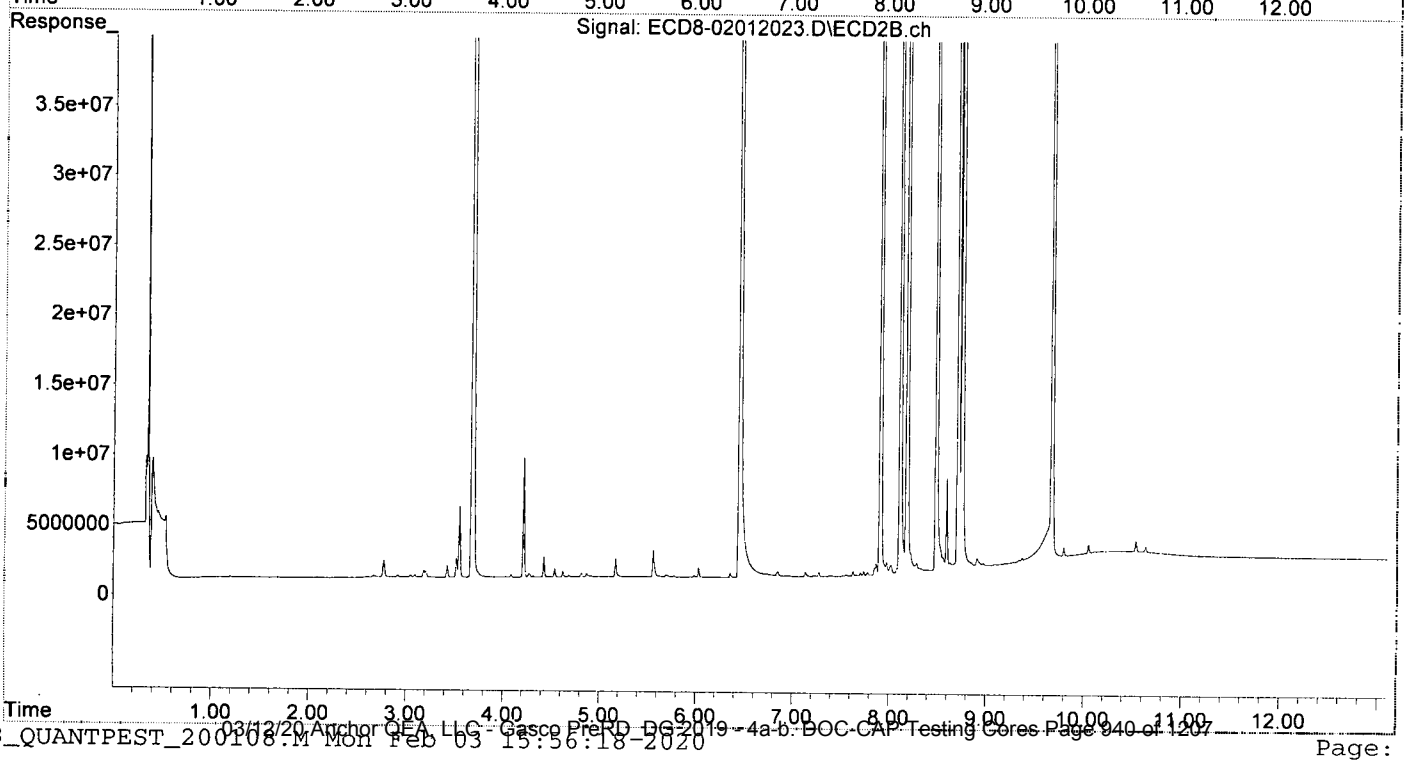
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:29
Operator : MJB
Sample : 0B01012-CALH
Misc : A19J409, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:20:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

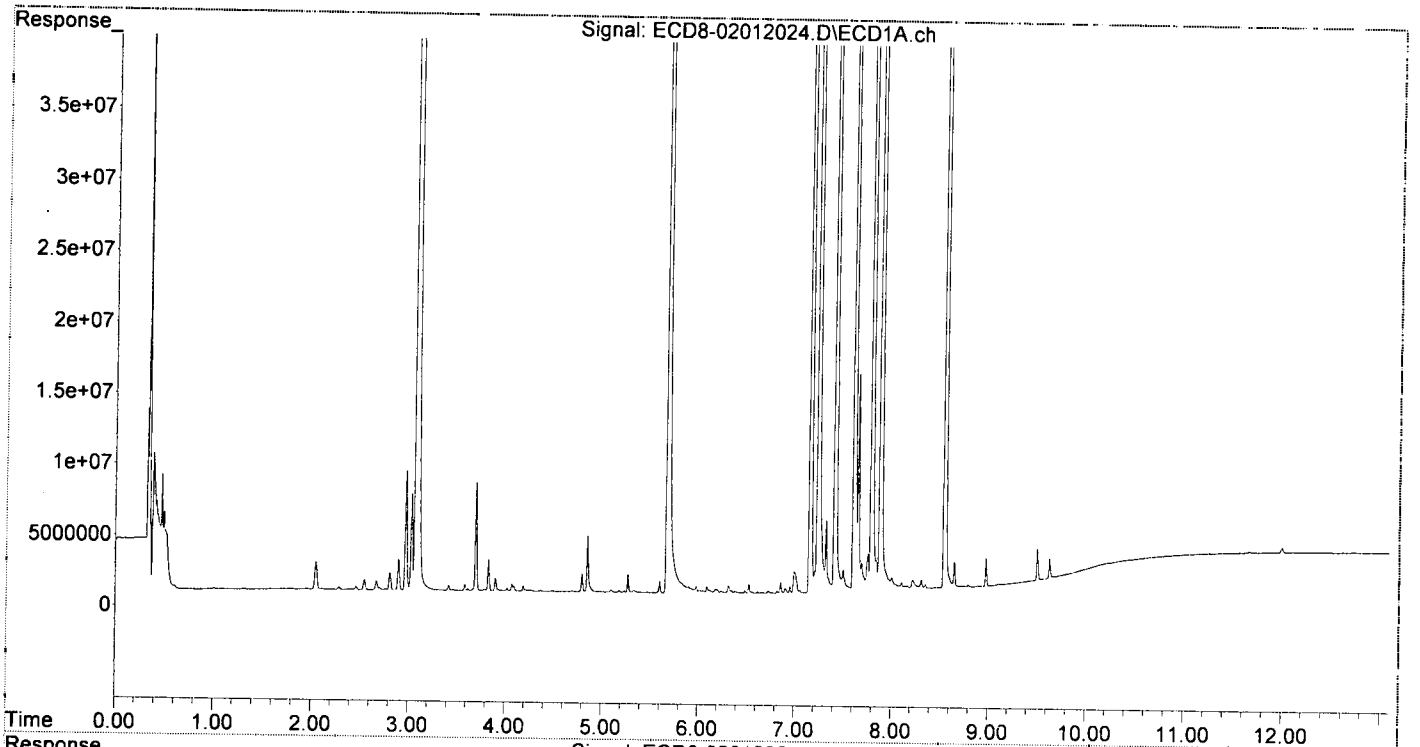
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	3.081	3.681	752.3E6	1068.1E6	271.631	241.188
24)	Hexachlor...	5.679	6.449	700.2E6	782.5E6	243.921	214.523
25)	Oxychlordane	7.157	7.907	643.7E6	730.3E6	286.187	254.848
26)	2,4'-DDE	7.238	8.109	482.9E6	534.7E6	246.236	229.746
27)	trans-Non...	7.415	8.181	728.0E6	810.4E6	258.179	242.594
28)	2,4'-DDD	7.610	8.483	416.9E6	469.3E6	276.948	249.082
29)	2,4'-DDT	7.792	8.707	502.1E6	583.6E6	290.241	261.709
30)	cis-Nonac...	7.884	8.747	835.6E6	936.1E6	232.372	255.838
31)	Mirex	8.550	9.673	487.2E6	479.6E6	236.360	218.311
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

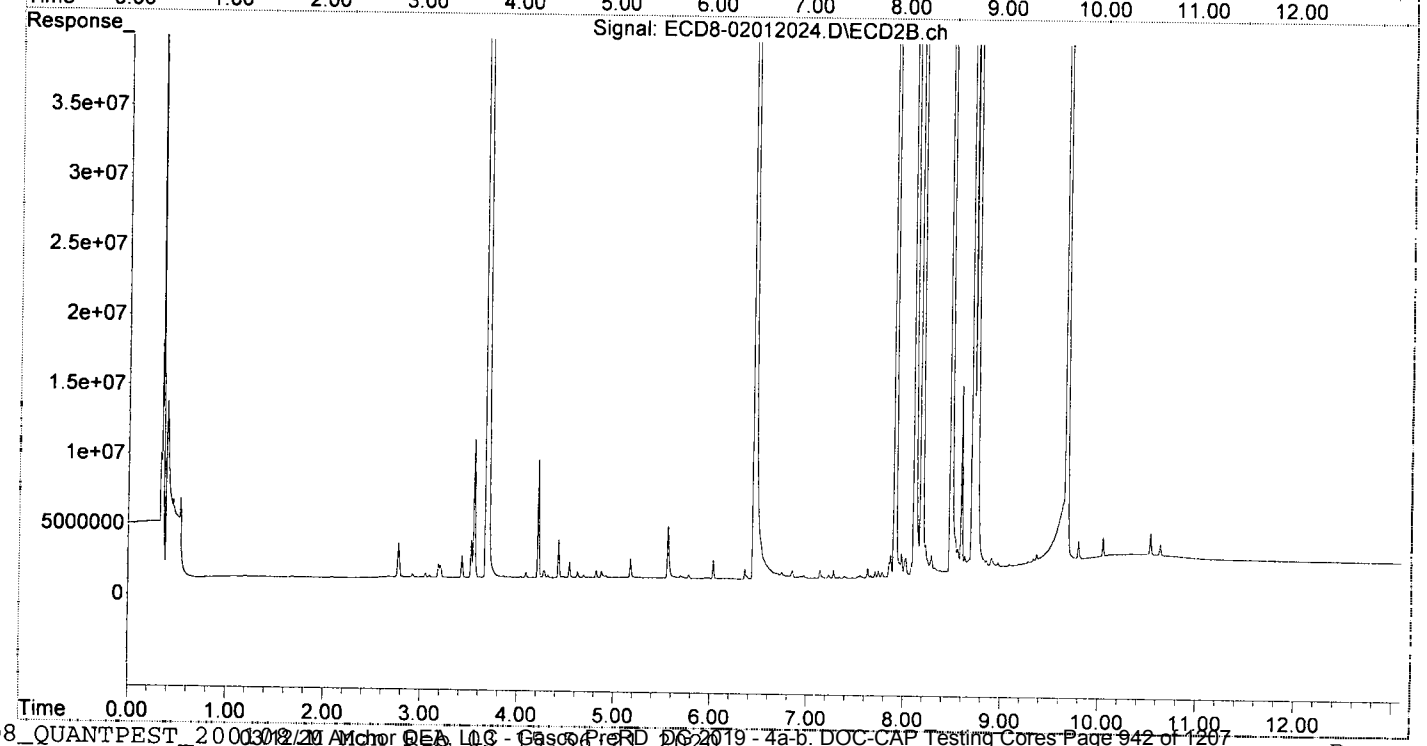
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:20:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:22:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:32 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

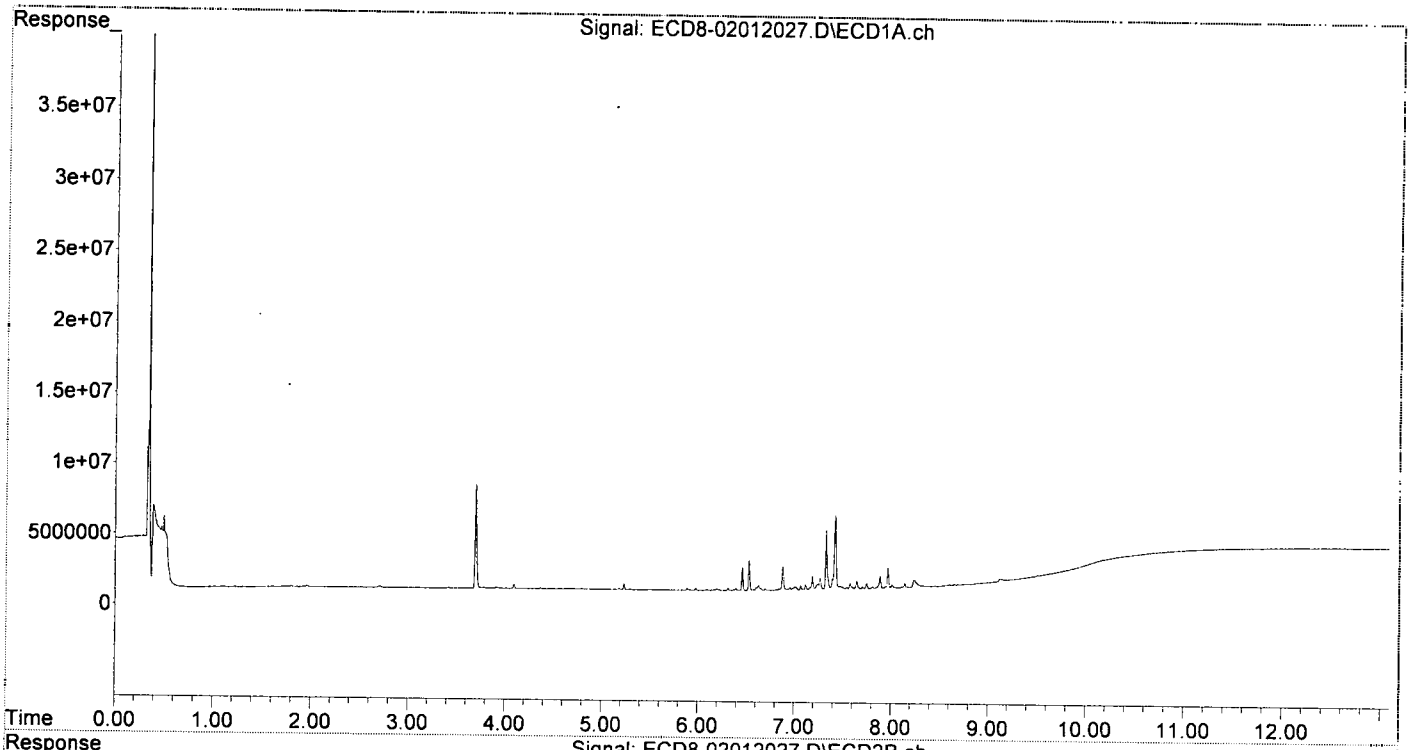
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.328	8.118	4222162	4084683	11.307	9.494
33)	Chlordane...	7.421	8.226	5231315	3718290	11.424	10.313
34)	Chlordane...	7.968	8.889	1477991	1246903	12.619	11.399
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

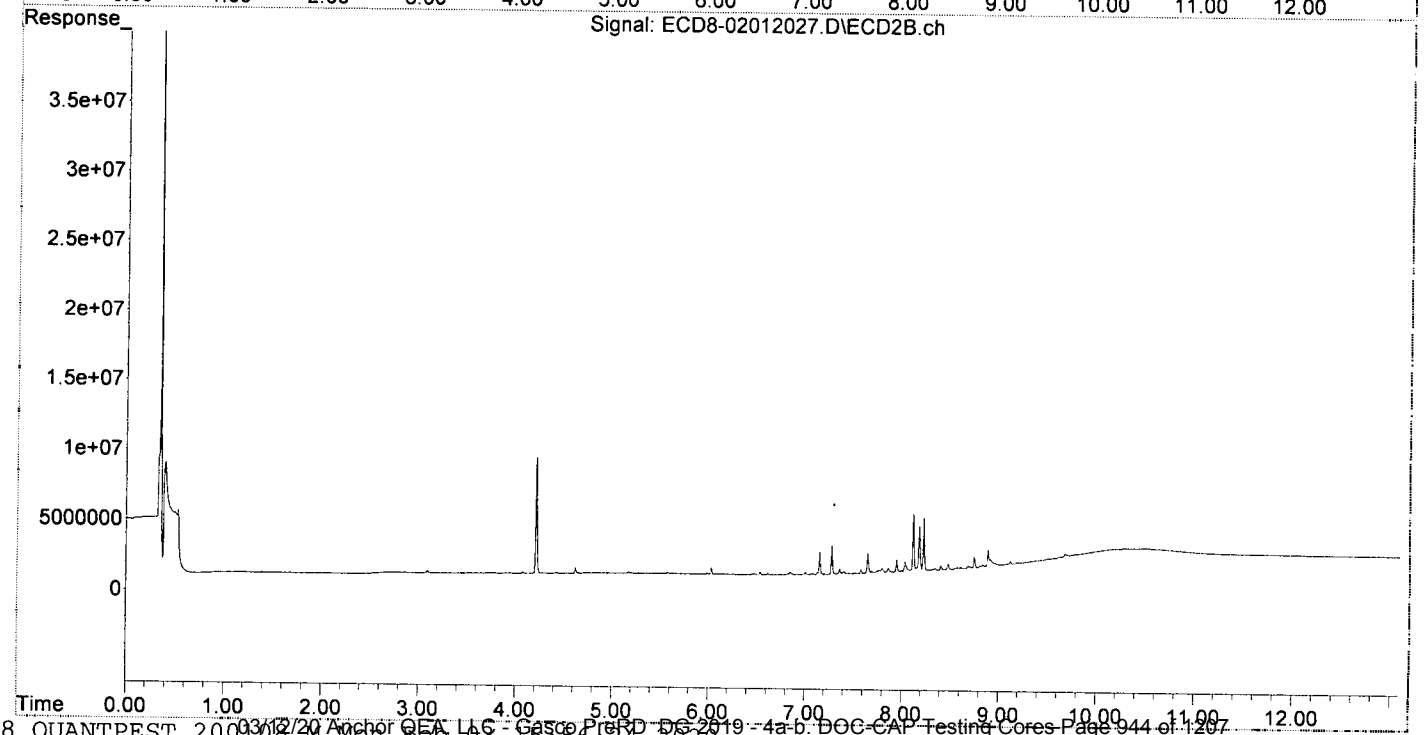
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:36
Operator : MJB
Sample : 0B01012-CALJ
Misc : A20B004, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:22:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:32 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/3/20

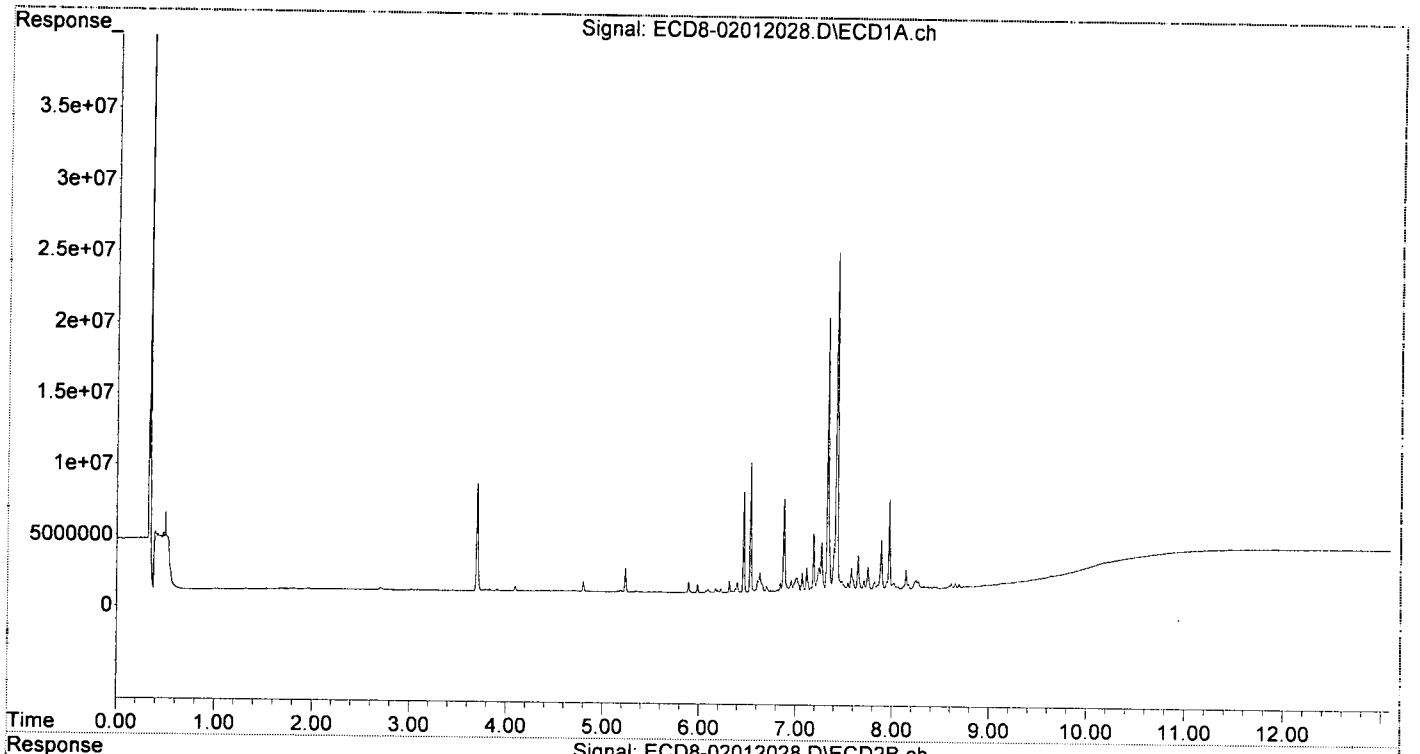
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.327	8.119	19331862	20134199	51.772	46.798
33)	Chlordane...	7.421	8.226	23846059	15910016	52.075	44.127
34)	Chlordane...	7.967	8.889	6361865	5712561	54.318	52.226
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

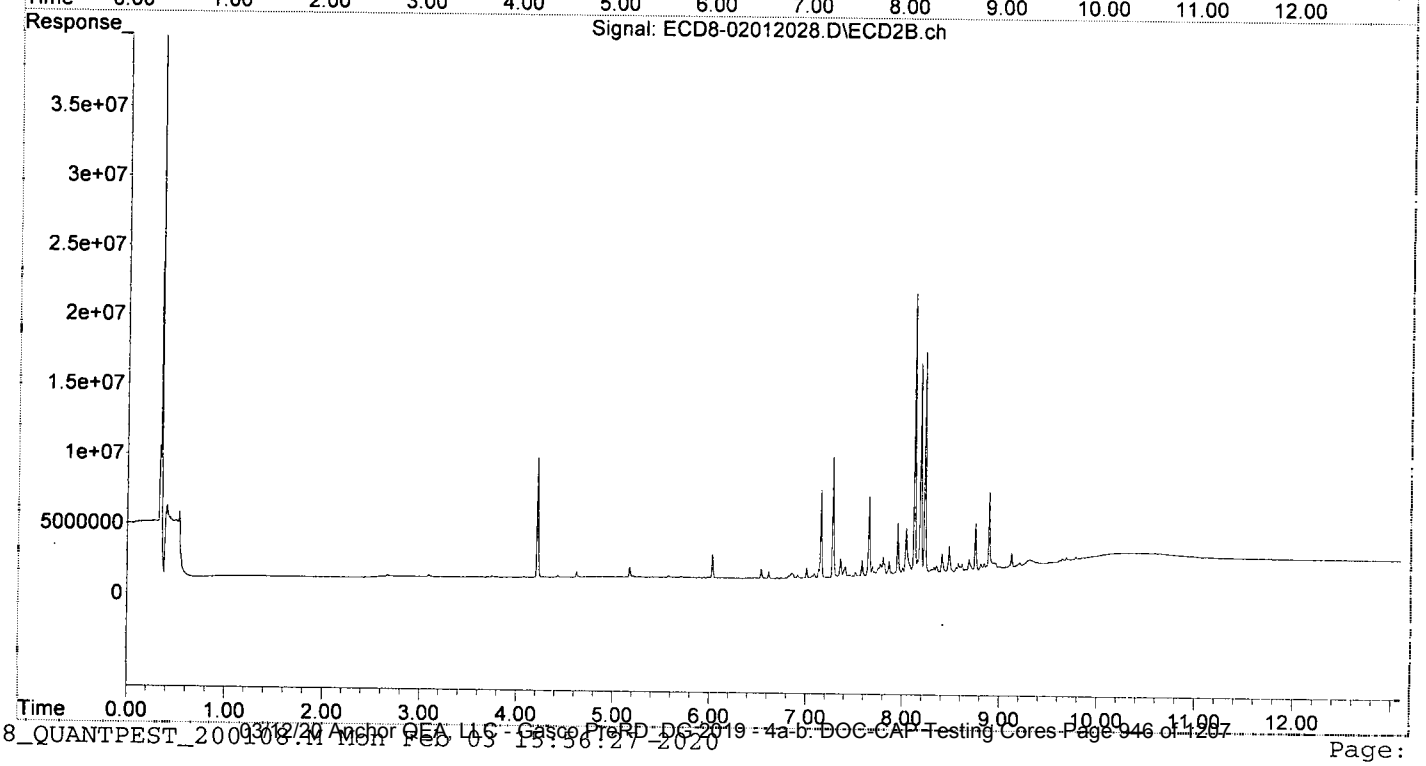
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

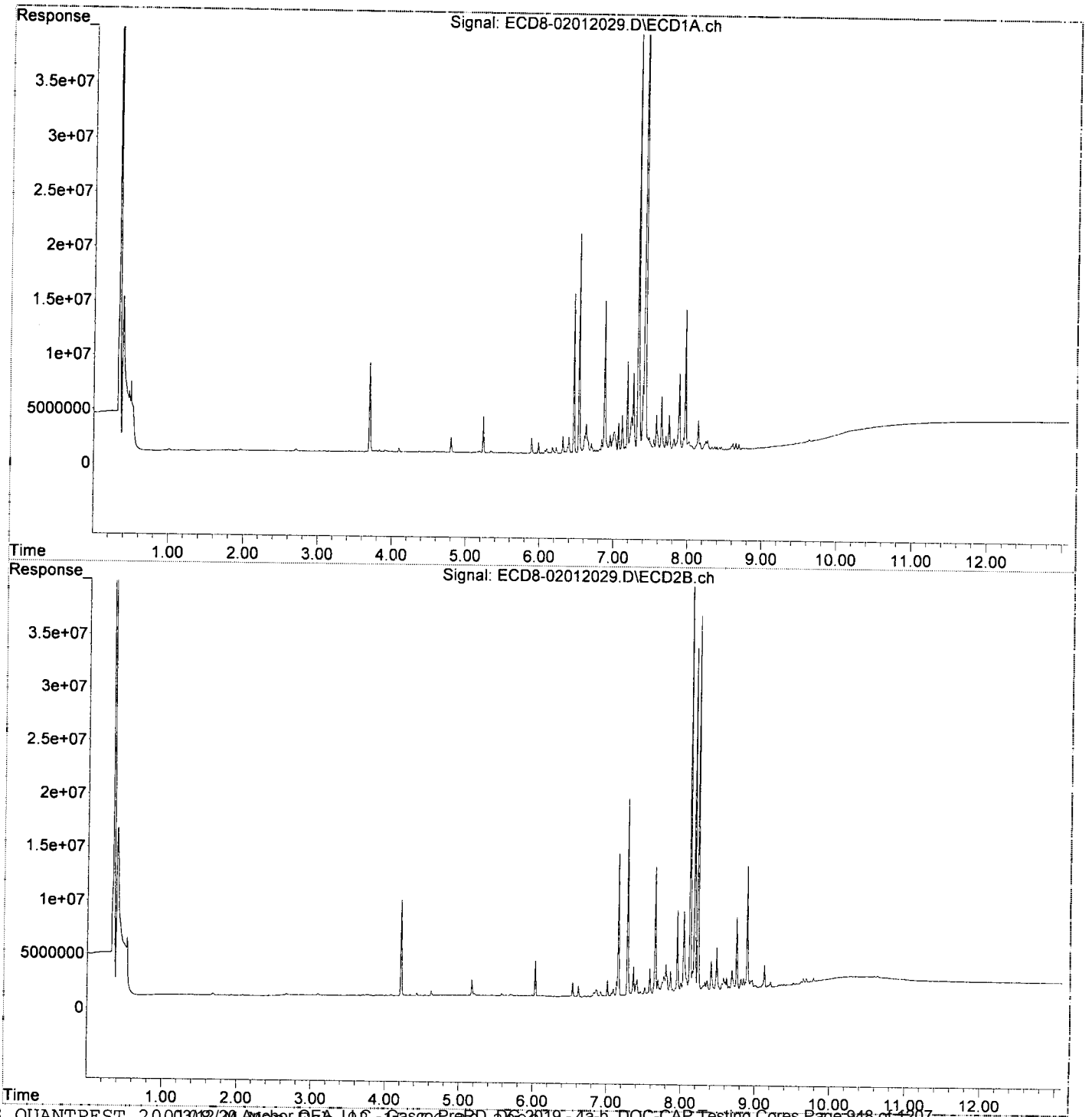
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.326	8.118	40982018	43332192	109.752	100.718
33)	Chlordane...	7.420	8.225	50068645	35221978	109.340	97.689
34)	Chlordane...	7.968	8.889	13031823	11647984	111.267	106.489
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

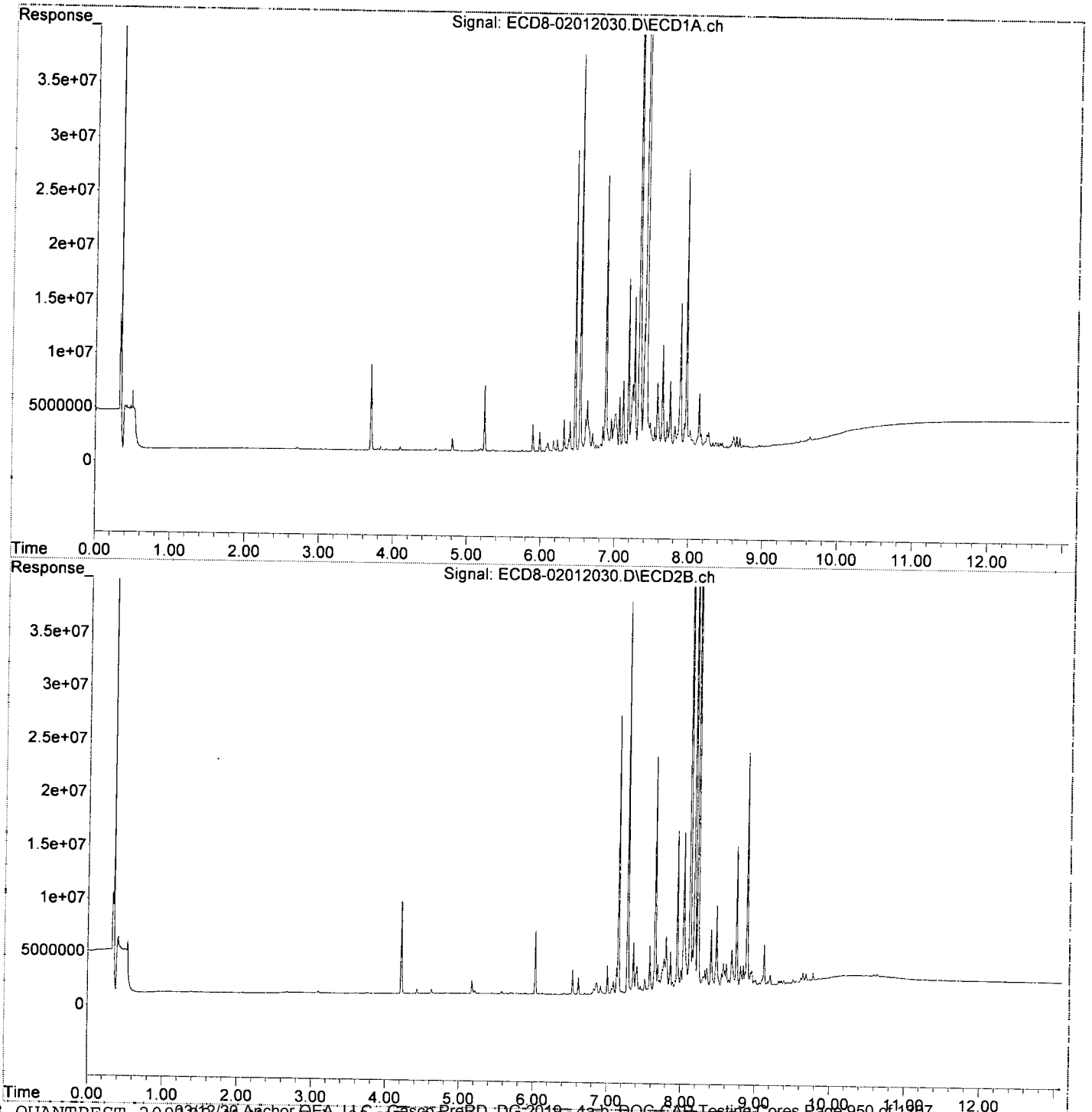
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.326	8.118	79833983	83675101	213.799	194.488
33)	Chlordane...	7.420	8.225	97470804	70682705	212.857	196.040
34)	Chlordane...	7.967	8.889	25873455	22148725	220.911	202.489
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

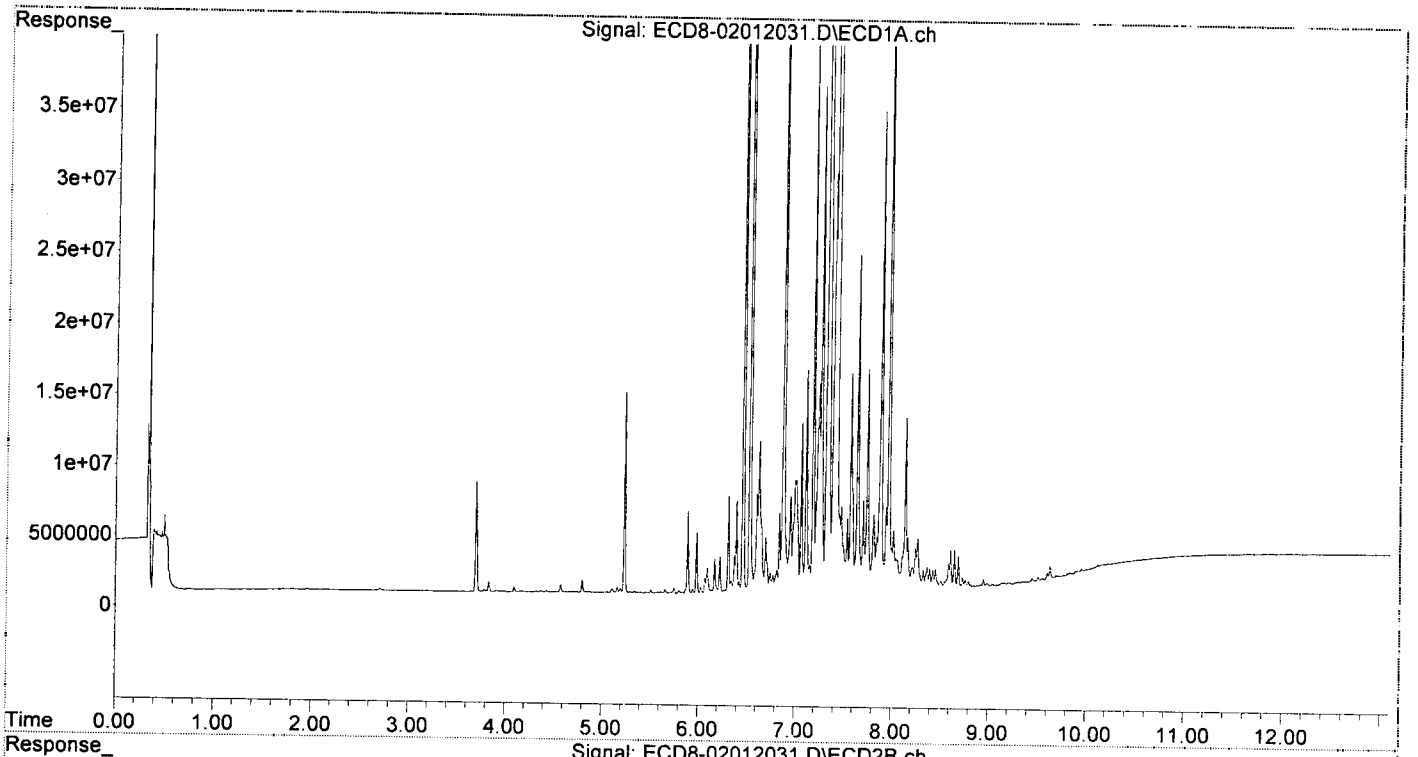
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	7.326	8.117	194.2E6	218.0E6	520.166	506.642
33)		Chlordane...	7.419	8.225	234.2E6	182.0E6	511.405	504.702
34)		Chlordane...	7.966	8.889	61785001	58496819	527.529	534.792
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

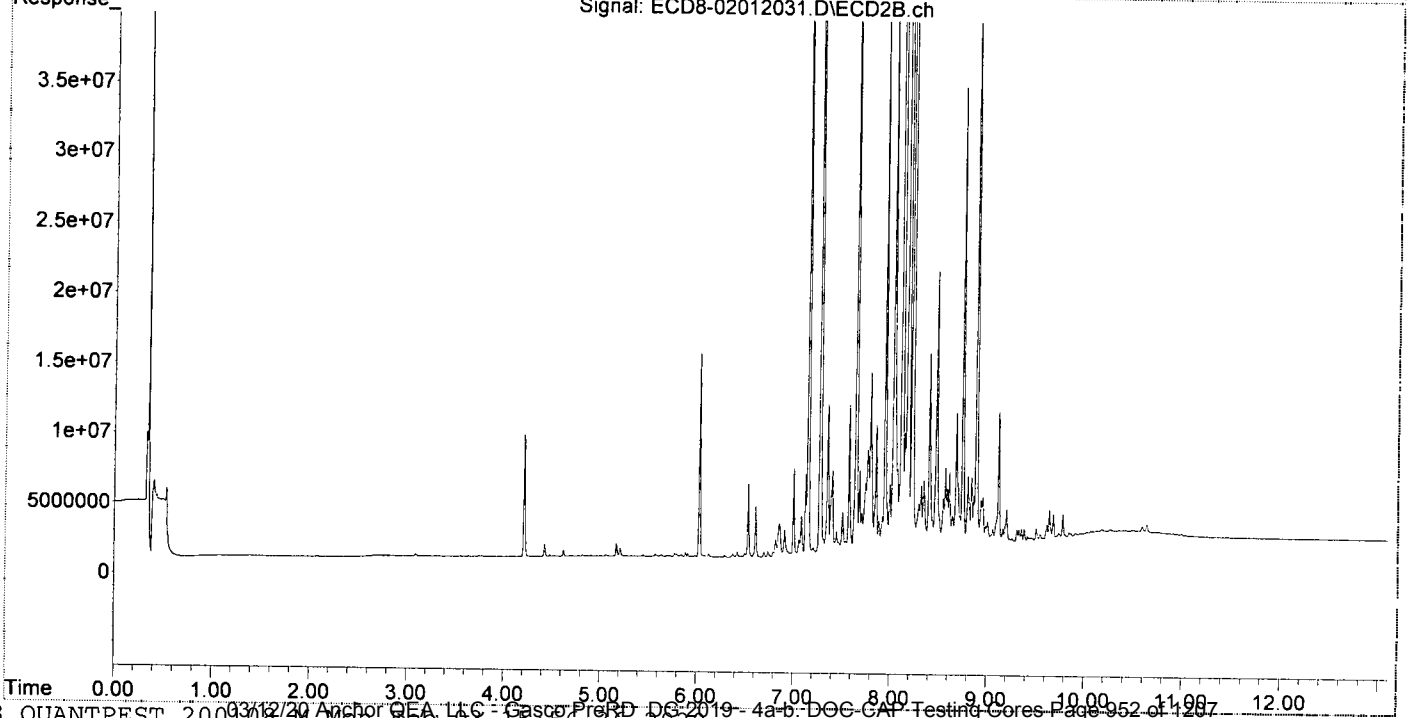
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

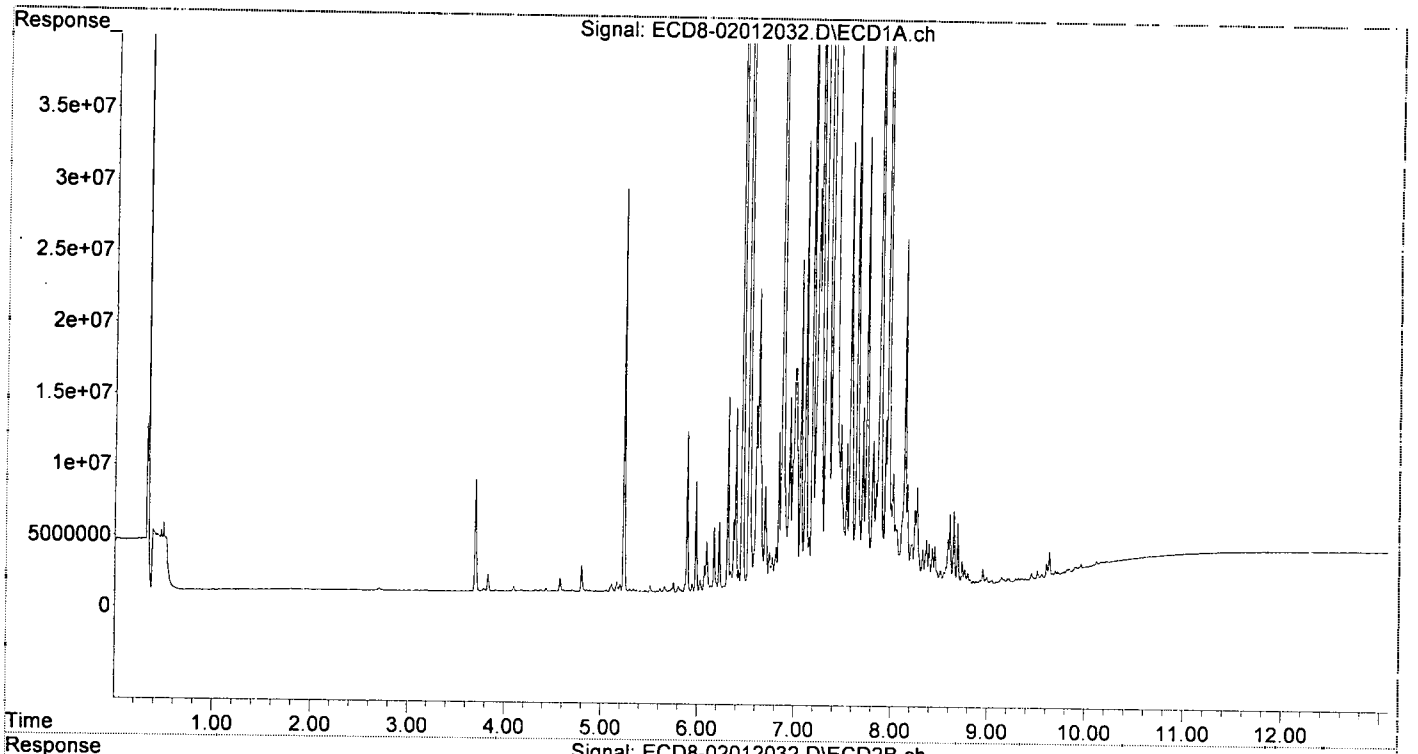
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	7.325	8.118	407.1E6	461.1E6	1090.148	1071.785
33)		Chlordane...	7.419	8.226	468.0E6	384.8E6	1021.927	1067.266
34)		Chlordane...	7.966	8.890	126.5E6	118.8E6	1080.265	1086.515
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

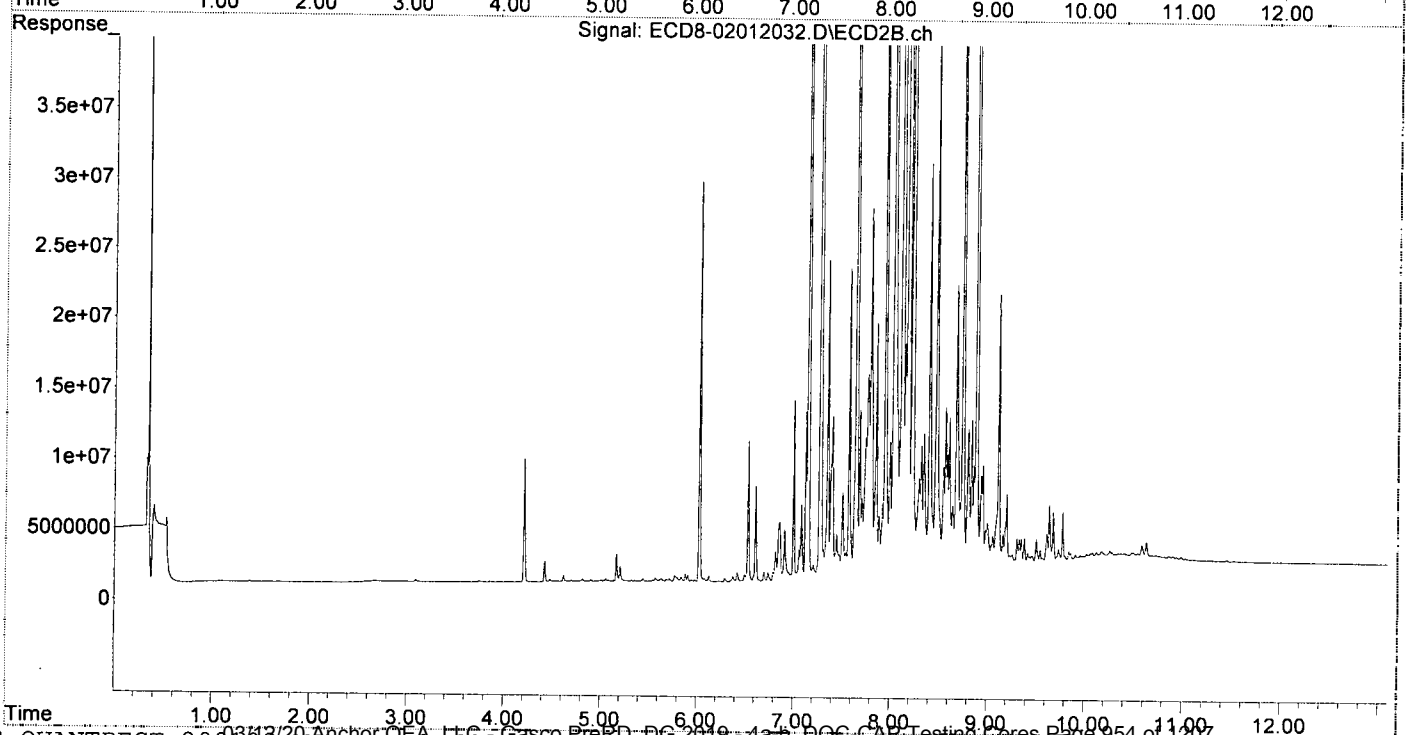
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:25:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

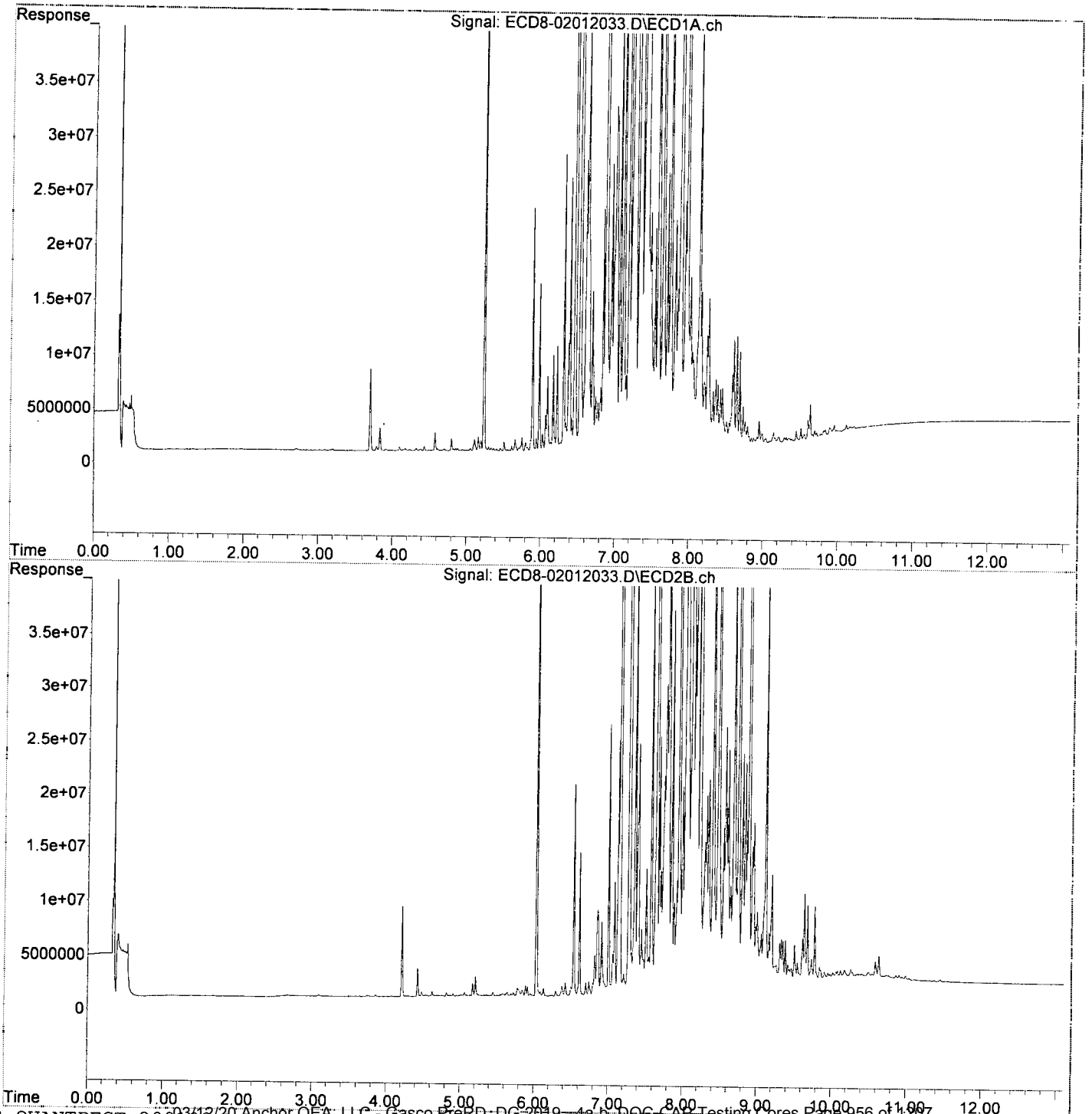
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.325	8.118	780.0E6	962.8E6	2088.768	2237.923
33)	Chlordane...	7.420	8.225	959.8E6	801.0E6	2095.944	2221.464
34)	Chlordane...	7.966	8.889	253.1E6	258.6E6	2161.308	2363.887
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:25:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

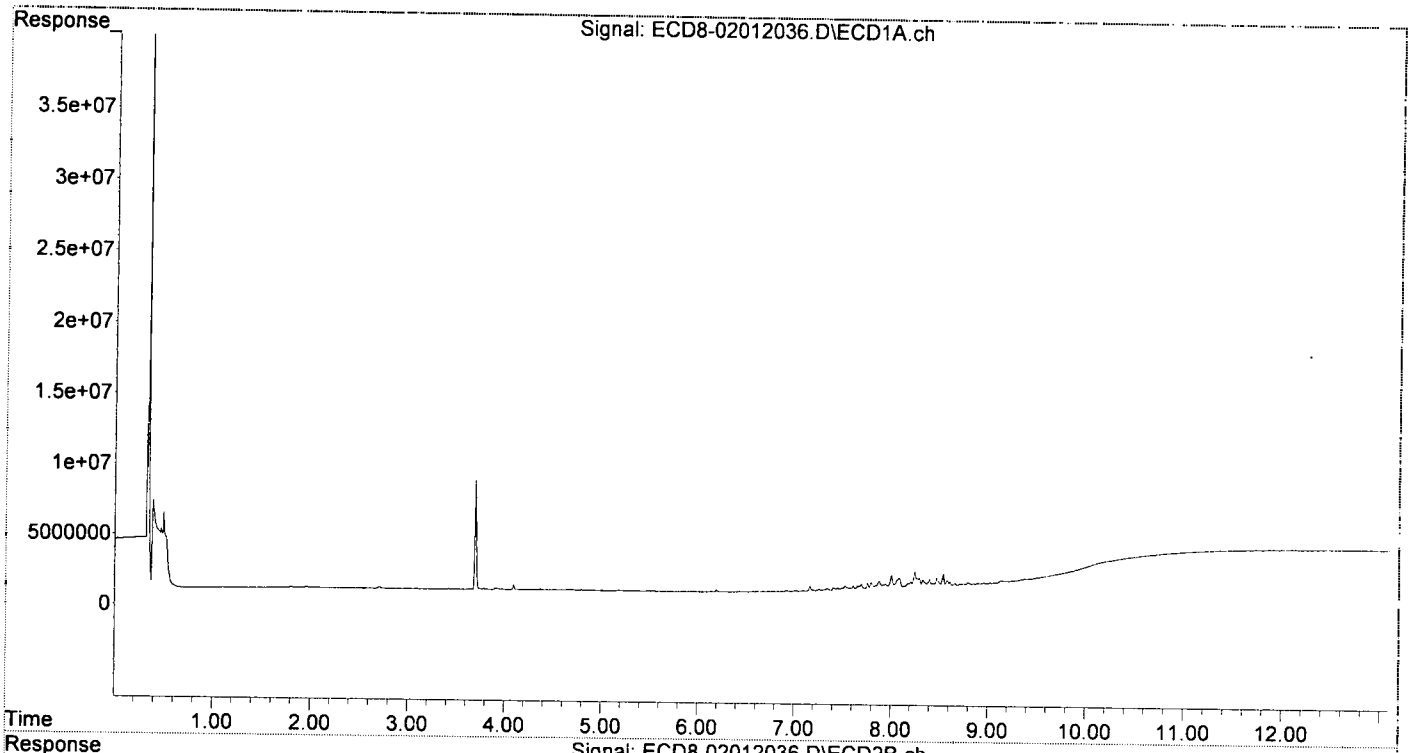
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.402	8.455	169507	273928	11.912	7.110 #
37)	Toxaphene...	7.694	8.803	357259	364064	10.115	7.494 #
38)	Toxaphene...	8.006	8.838	923034	694351	9.582	8.052
39)	Toxaphene...	8.246	8.907	1100625	1372328	18.534	13.315 #
40)	Toxaphene...	8.472	9.081	585949	574323	12.388	8.643 #
41)	Toxaphene...	8.541	9.463	844549	749407	12.729	12.944
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

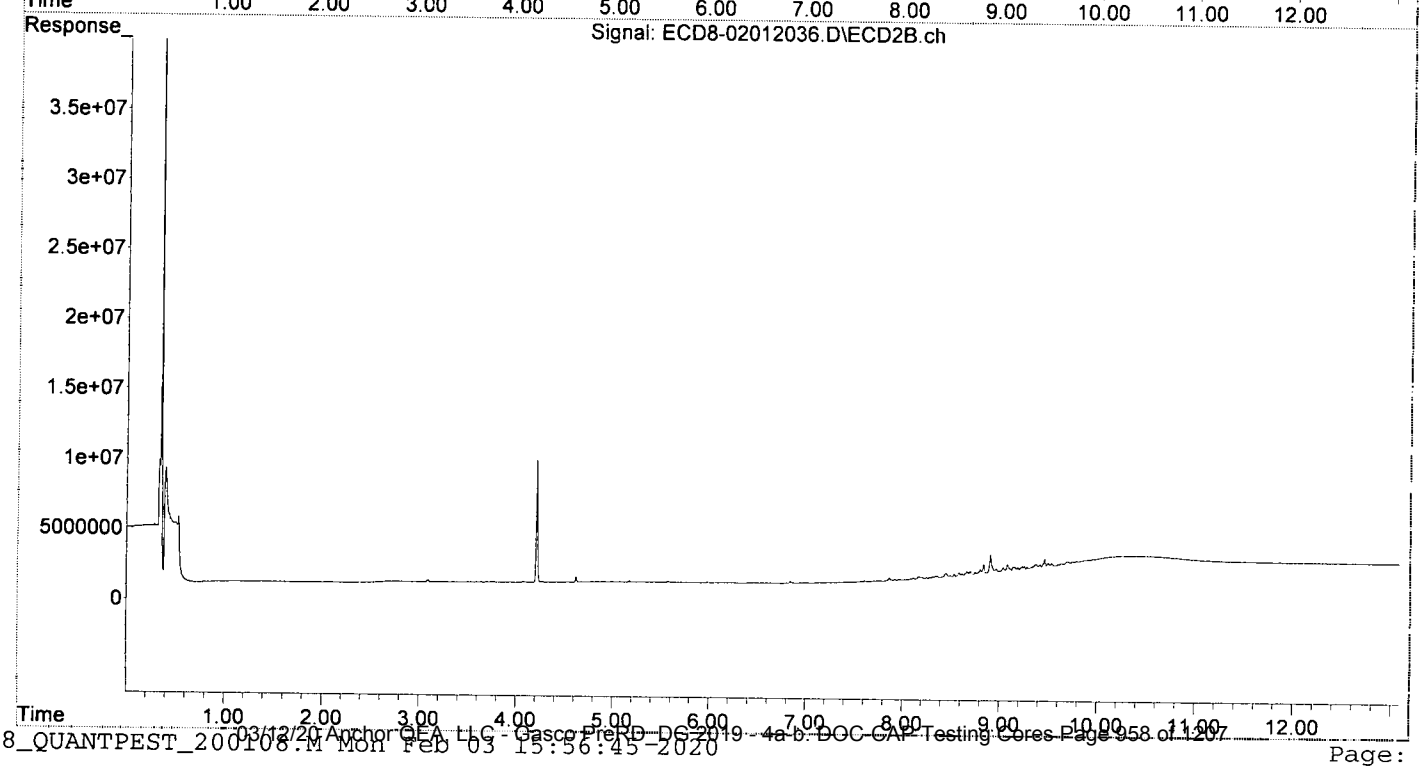
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:28:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/5/20

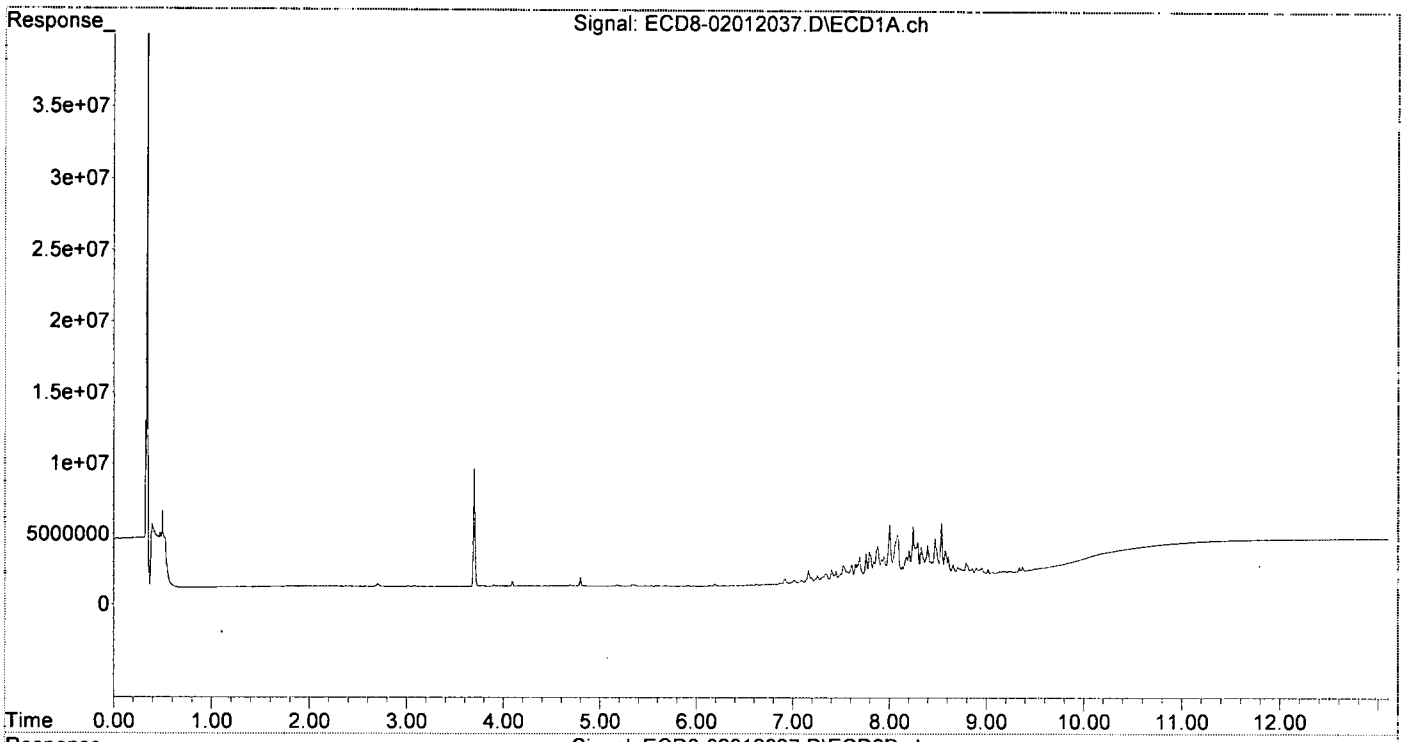
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	7.400	8.455	862137	1457893	60.587	50.306
37)		Toxaphene...	7.693	8.804	1682151	1899624	55.373	50.936
38)		Toxaphene...	8.004	8.839	3882297	3122967	59.396	53.665
39)		Toxaphene...	8.246	8.907	3672237	5032751	61.839	57.160
40)		Toxaphene...	8.473	9.083	2698036	2697421	57.043	51.780
41)		Toxaphene...	8.539	9.464	3790810	3159313	57.136	54.567
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

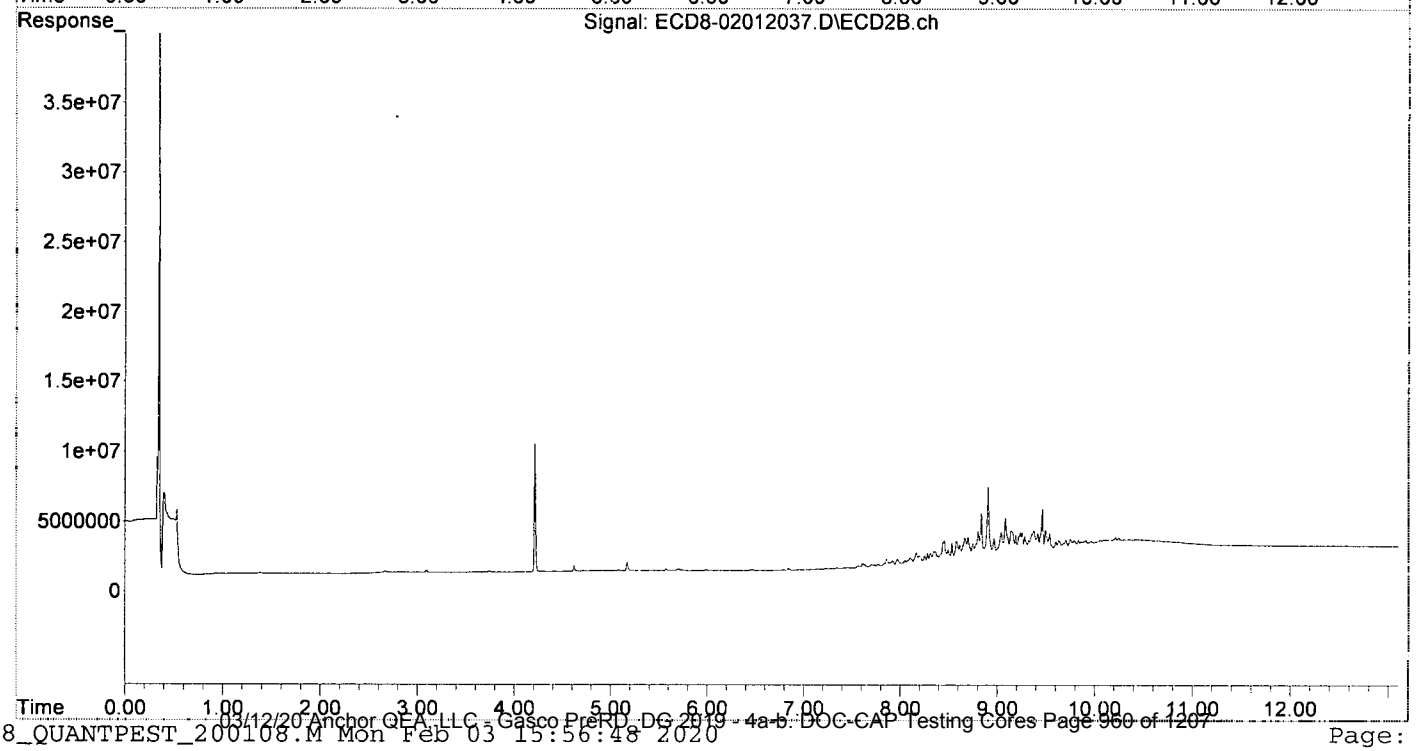
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:24
Operator : MJB
Sample : 0B01012-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:28:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MWP 2/3/20

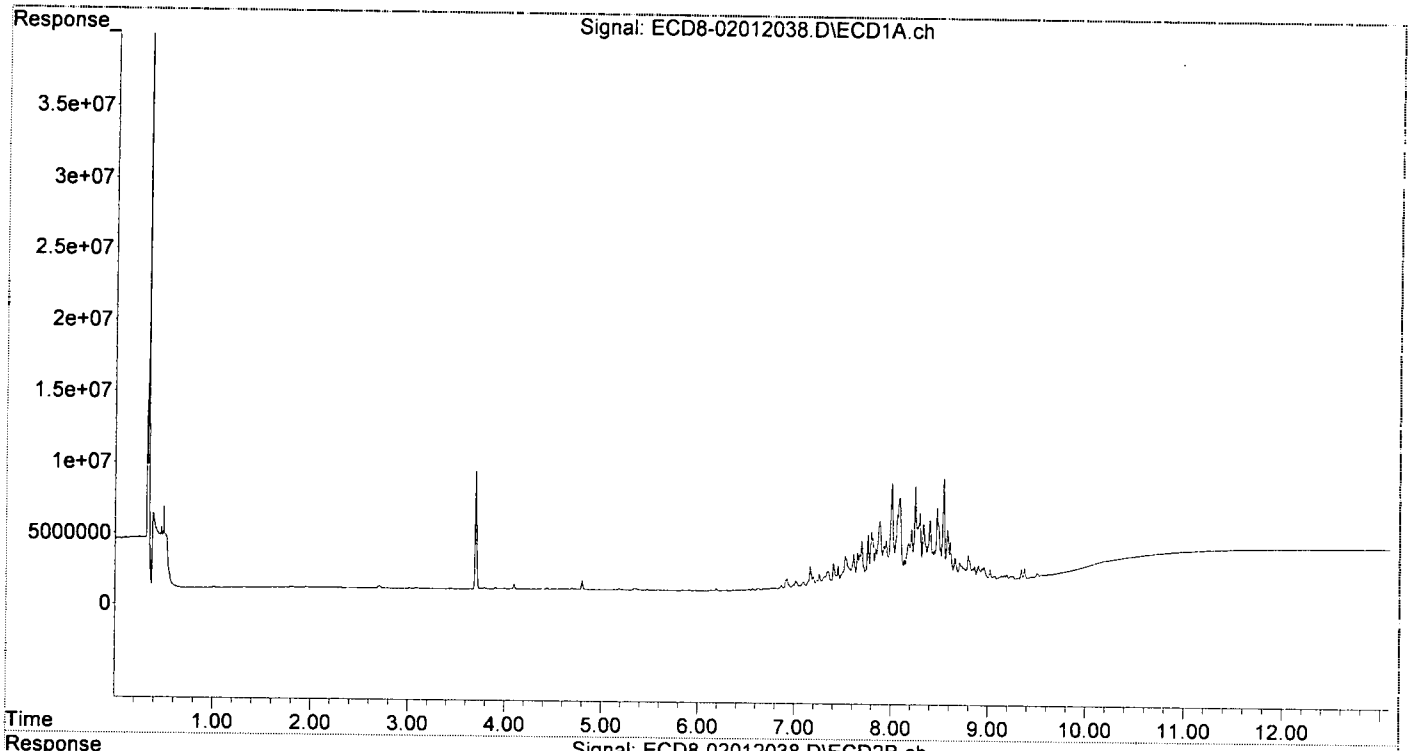
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)		d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)		trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)		cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)		Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)		Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	7.400	8.455	1687426	3039636	118.585	108.365
37)		Toxaphene...	7.693	8.803	3171817	4024499	106.680	111.161
38)		Toxaphene...	8.004	8.838	7108085	6231660	113.854	111.998
39)		Toxaphene...	8.245	8.906	6856793	10075815	115.465	117.279
40)		Toxaphene...	8.472	9.083	5268375	5637073	111.387	111.355
41)		Toxaphene...	8.539	9.463	7293127	6347466	109.923	109.632
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

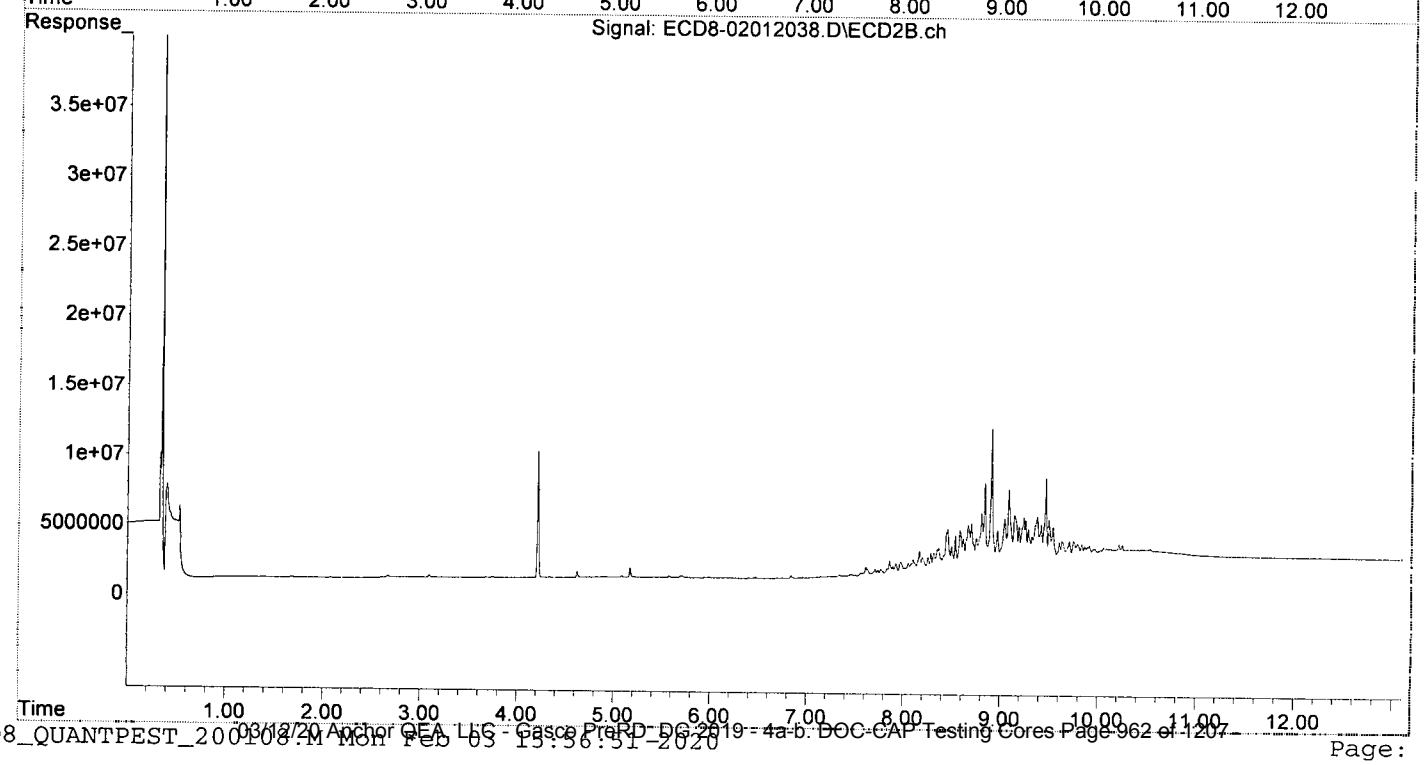
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:41
Operator : MJB
Sample : 0B01012-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MB 2/3/20

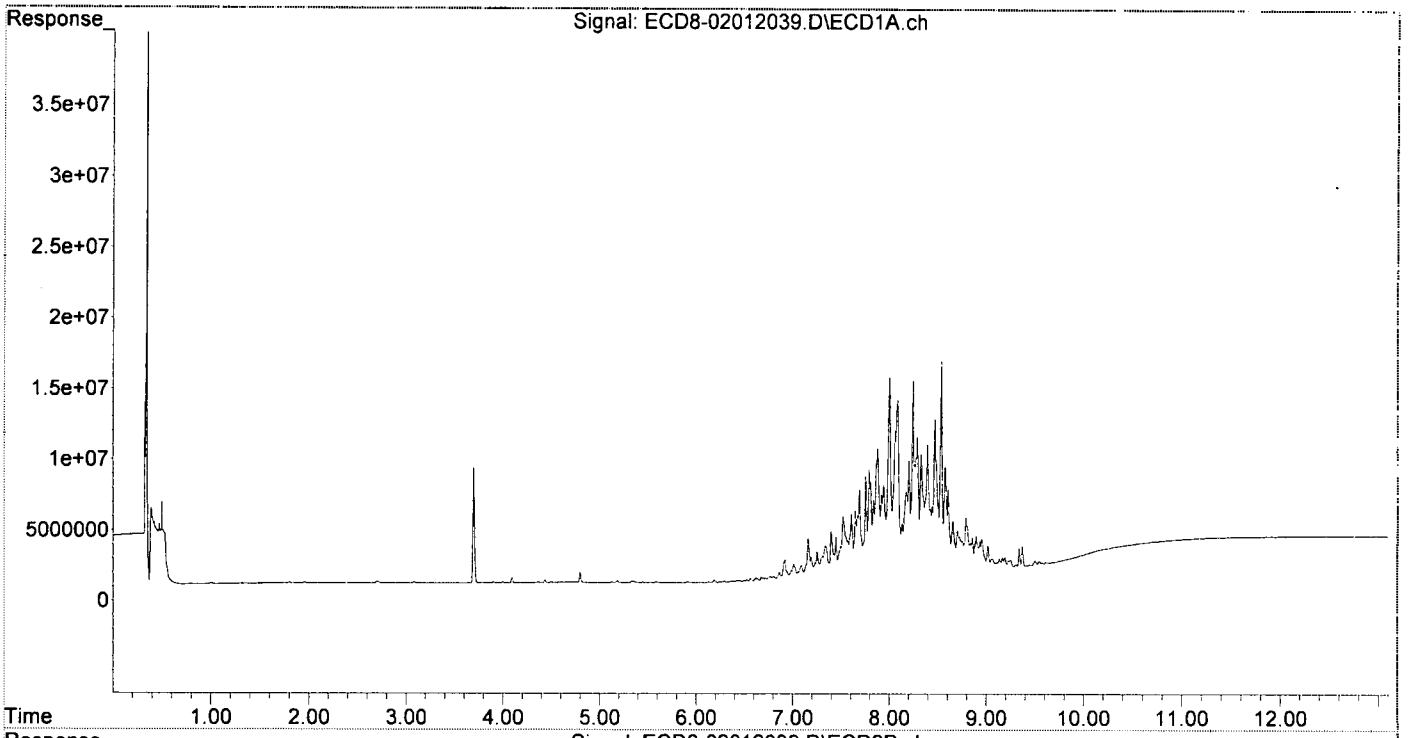
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.398	8.454	3210991	5983532	225.654	217.519
37)	Toxaphene...	7.692	8.803	6077785	8295354	208.090	232.604
38)	Toxaphene...	8.003	8.838	13955658	12406840	230.011	227.700
39)	Toxaphene...	8.245	8.905	13559149	19955192	228.329	234.111
40)	Toxaphene...	8.471	9.082	10723722	11485592	226.727	229.366
41)	Toxaphene...	8.539	9.464	14823031	12675921	228.416	218.935
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

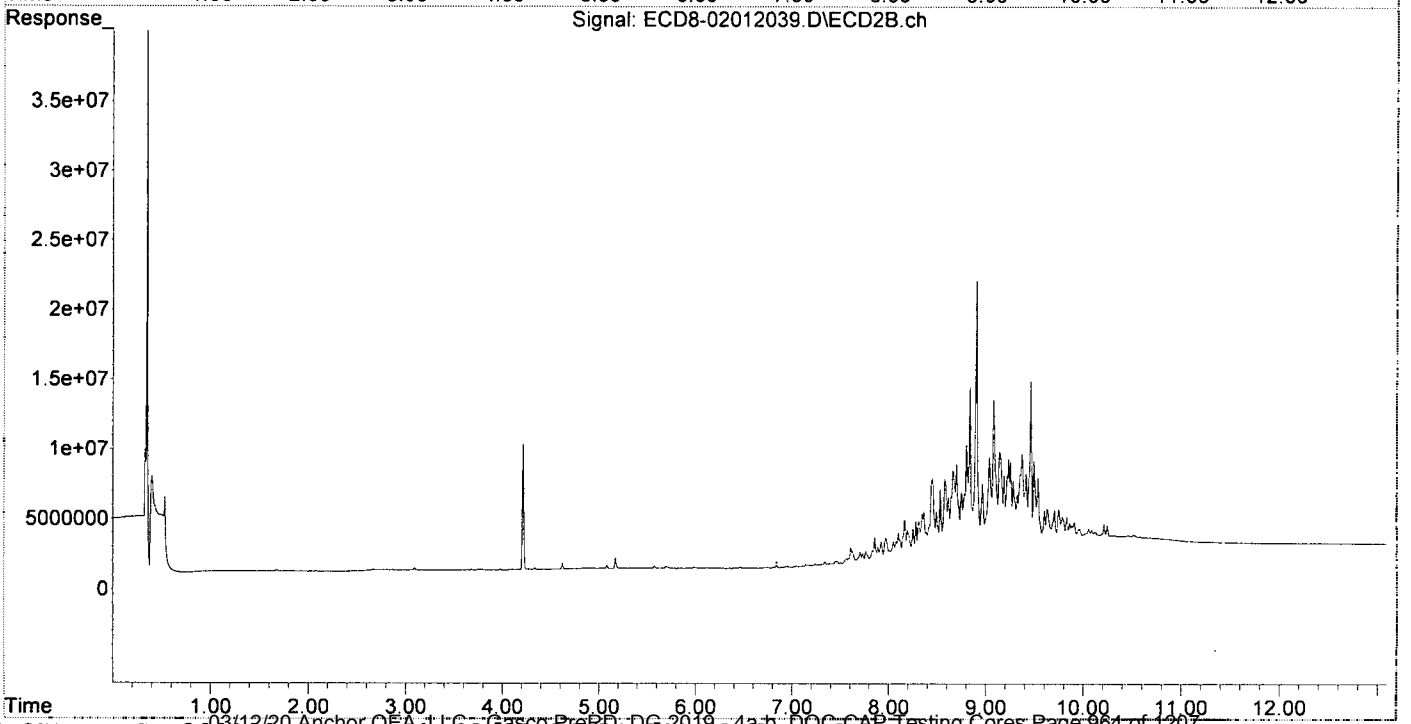
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

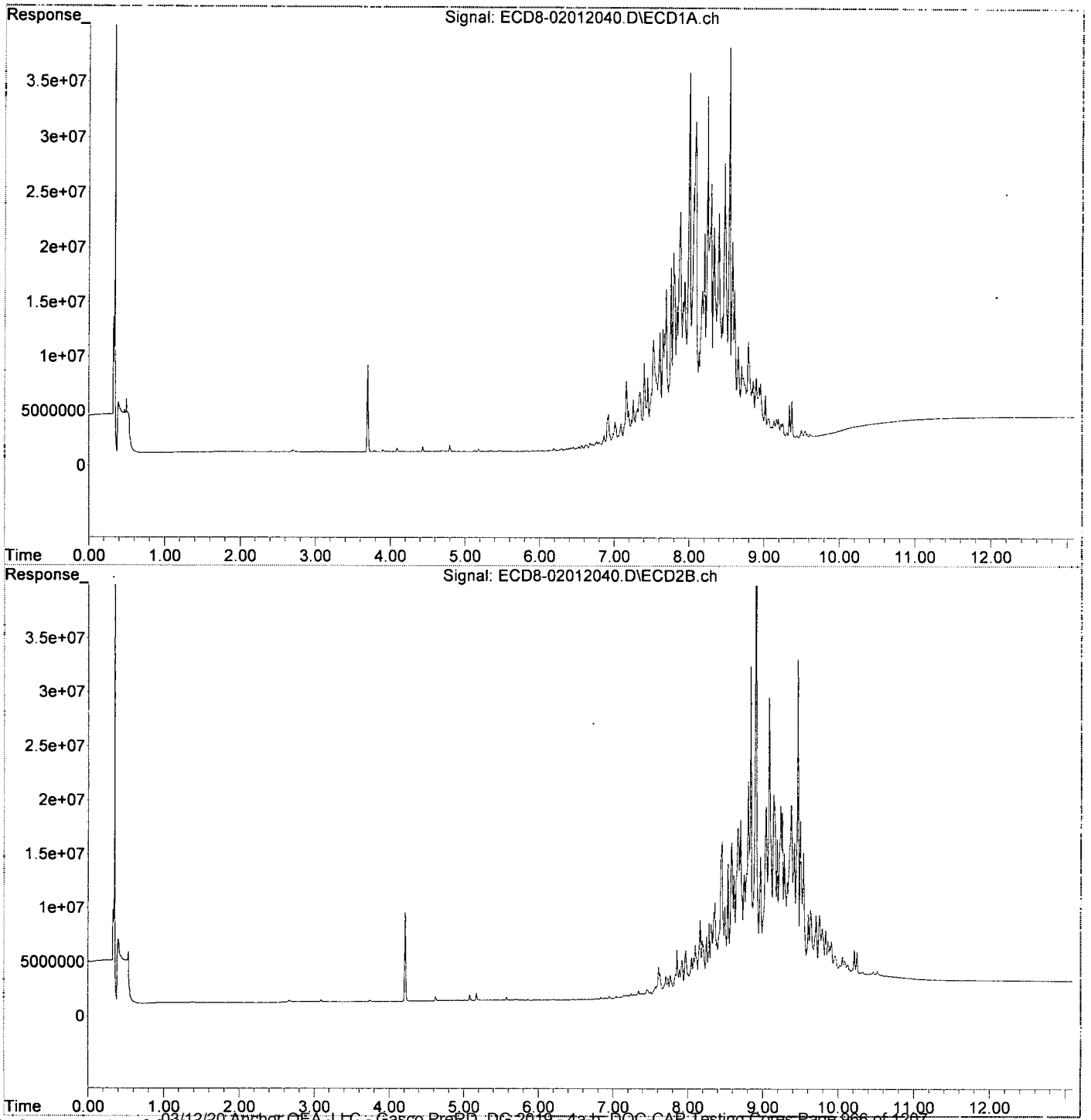
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.399	8.454	7624274	13991055	535.799	522.065
37)	Toxaphene...	7.692	8.802	14283516	19375133	504.670	550.161
38)	Toxaphene...	8.002	8.837	33827874	30083885	571.498	557.645
39)	Toxaphene...	8.245	8.905	31701311	48832915	533.834	568.777
40)	Toxaphene...	8.471	9.082	25454970	27050867	538.183	540.168
41)	Toxaphene...	8.538	9.463	35990464	30451142	542.455	525.944
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:30:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/13/20

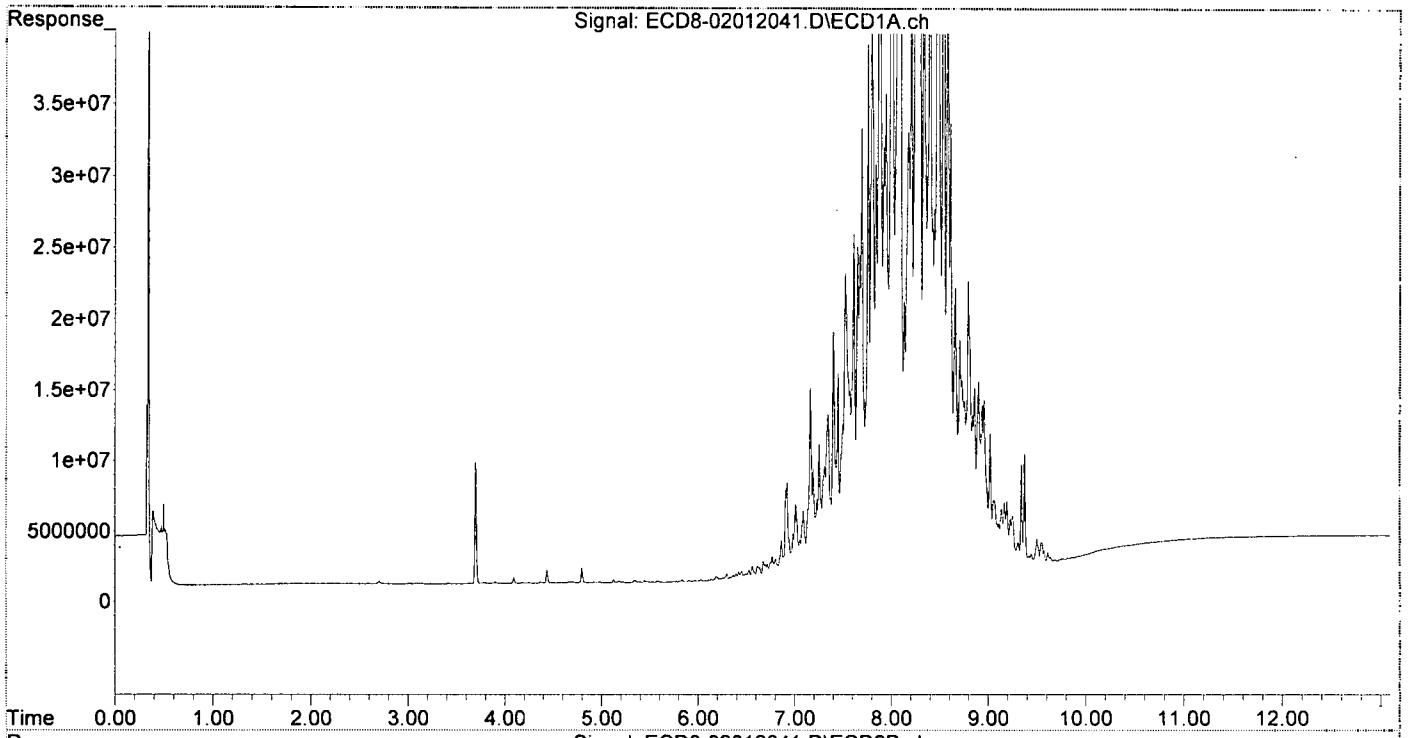
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.399	8.453	17126108	32020907	1203.545	1255.115
37)	Toxaphene...	7.691	8.802	31290692	44952411	1177.930	1297.613
38)	Toxaphene...	8.002	8.837	74869389	70006747	1298.898	1296.068
39)	Toxaphene...	8.245	8.905	71267141	114.1E6	1200.102	1291.377
40)	Toxaphene...	8.471	9.081	57604978	63084241	1217.916	1242.380
41)	Toxaphene...	8.538	9.463	80425541	70673400	1212.189	1220.652
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

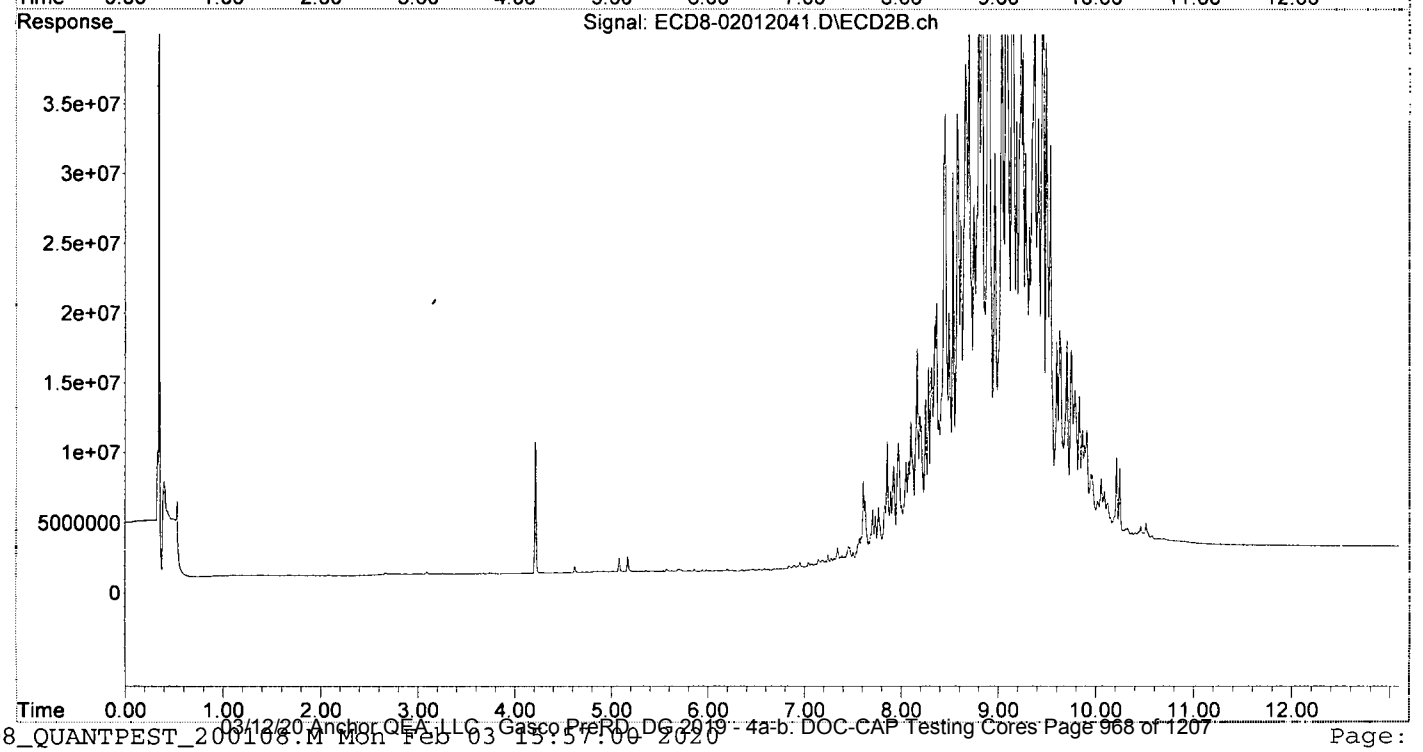
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:30:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation

MJB 2/3/20

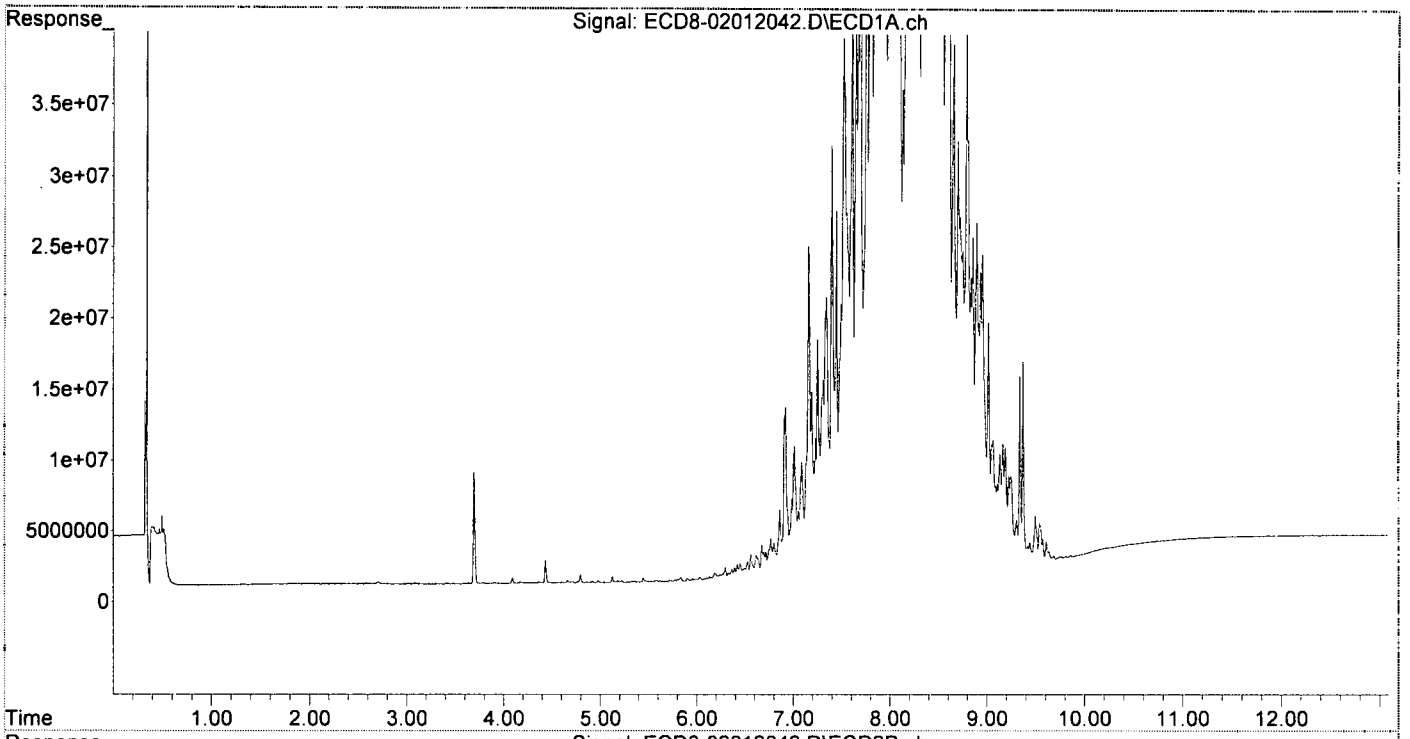
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.398	8.453	30177110	58830123	2120.709	2511.348
37)	Toxaphene...	7.691	8.802	57148633	82998661	2442.230	2449.774
38)	Toxaphene...	8.003	8.837	134.9E6	132.9E6	2423.208	2441.276
39)	Toxaphene...	8.243	8.905	128.9E6	212.6E6	2171.417	2307.234
40)	Toxaphene...	8.471	9.082	104.1E6	117.9E6	2200.668	2268.137
41)	Toxaphene...	8.537	9.462	145.3E6	131.6E6	2190.132	2273.646
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

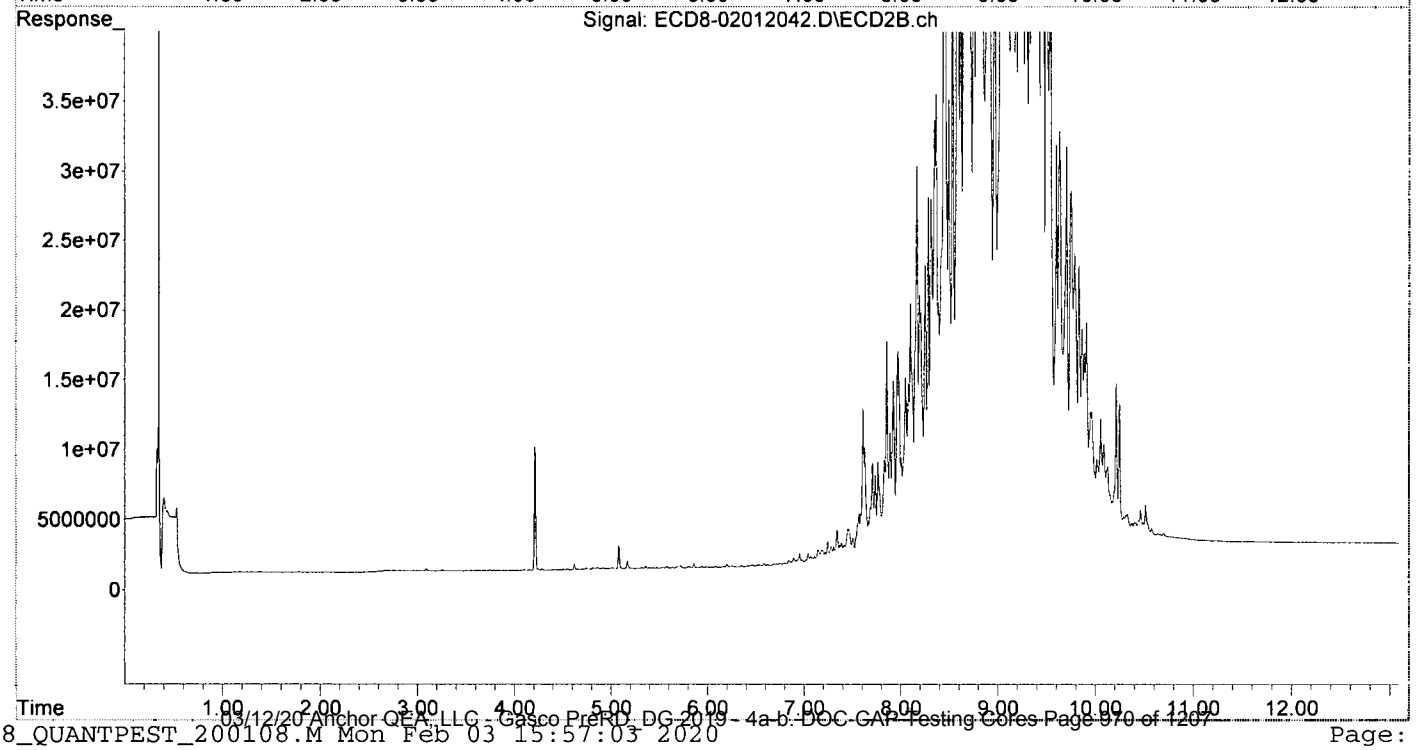
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation





APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Batch 0010978
Sequence 0B03036 (A0A1011-01,02,03)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010978 (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	pH Other	pH >11
	0010978-BLK1		QC	01/31/20 07:07	11	5				100					
	0010978-BS1		QC	01/31/20 07:07	10	5	A19H078		100	100					
	A0A0991-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.04	5				100	PDI-035SC-A-01-02-191010				
	A0A0991-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.12	5				100	PDI-035SC-A-02-03-191010				
	A0A0991-02RE1	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.12	5				100	PDI-035SC-A-02-03-191010	Added 2/3/2020 By ams			
	A0A0991-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.28	5				100	PDI-041SC-A-03-04-191010				
	0010978-DUP1		QC	01/31/20 09:54	10.22	5		A0A0991-03		100					
	A0A0991-04	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.55	5				100	PDI-045SC-A-04-05-191010				
	A0A0991-05	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.31	5				100	PDI-045SC-A-05-06-191010				
	A0A0991-06	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.4	5				100	PDI-067SC-A-06-07-191010	MS/MSD			
	0010978-MS1		QC	01/31/20 07:07	10.31	5	A19H078	A0A0991-06	100	100					
	0010978-MSD1		QC	01/31/20 07:07	10.27	5	A19H078	A0A0991-06	100	100					
	A0A0994-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.34	5				100	PDI-066SC-A-07-08-191011				
	A0A0994-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.2	5				100	PDI-066SC-A-08-09-191011				
	A0A0996-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.63	5				100	PDI-015SC-A-09-10-191012				
	A0A0996-01RE1	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.63	5				100	PDI-015SC-A-09-10-191012	Added 2/3/2020 By ams			
	A0A0996-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.66	5				100	PDI-037SC-A-04-05-191012				
	A0A0996-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.4	5				100	PDI-037SC-A-05-06-191012				
	A0A0996-04	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.58	5				100	PDI-037SC-A-06-07-191012				
	A0A0996-04RE1	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.58	5				100	PDI-037SC-A-06-07-191012	Added 2/3/2020 By ams			

Prepared By: _____ Date _____

Reviewed By: AMS Date 2/4/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010978 (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	pH Other	pH >11
	A0A0996-05	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.05	5				100	PDI-074SC-A-06-07-191012				
	A0A0996-06	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.28	5				100	PDI-074SC-A-07-08-191012				
	A0A1002-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.21	5				100	PDI-076SC-A-08-09-191013				
	A0A1002-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.43	5				100	PDI-076SC-A-09-10-191013				
	A0A1010-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.05	5				100	PDI-026SC-A-06-07-191014				
	A0A1010-01RE1	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.05	5				100	PDI-026SC-A-06-07-191014	Added 2/3/2020 By ams			
	A0A1011-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.16	5				100	PDI-057SC-A-06-07-191023				
	A0A1011-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.33	5				100	PDI-057SC-A-07-08-191023				
	A0A1011-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.73	5				100	PDI-057SC-A-08-09-191023				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19H078	02/02/20	LVI PAH Spike @2000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010978 (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	pH Other	pH >11
	0010978-BLK1		QC	01/31/20 07:07	11	5				100					
	0010978-BS1		QC	01/31/20 07:07	10	5	A19H078		100	100					
	A0A0991-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.04	5				100	PDI-035SC-A-01-02-191010				
	A0A0991-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.12	5				100	PDI-035SC-A-02-03-191010				
	A0A0991-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.28	5				100	PDI-041SC-A-03-04-191010				
	0010978-DUP1		QC	01/31/20 09:54	~~10~~ 10.22	5		A0A0991-03		100					
	A0A0991-04	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.55	5				100	PDI-045SC-A-04-05-191010				
	A0A0991-05	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.31	5				100	PDI-045SC-A-05-06-191010				
	A0A0991-06	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.4	5				100	PDI-067SC-A-06-07-191010	MS/MSD			
	0010978-MS1		QC	01/31/20 07:07	10.31	5	A19H078	A0A0991-06	100	100					
	0010978-MSD1		QC	01/31/20 07:07	10.27	5	A19H078	A0A0991-06	100	100					
	A0A0994-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.34	5				100	PDI-066SC-A-07-08-191011				
	A0A0994-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.2	5				100	PDI-066SC-A-08-09-191011				
	A0A0996-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.63	5				100	PDI-015SC-A-09-10-191012				
	A0A0996-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.66	5				100	PDI-037SC-A-04-05-191012				
	A0A0996-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.4	5				100	PDI-037SC-A-05-06-191012				
	A0A0996-04	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.58	5				100	PDI-037SC-A-06-07-191012				
	A0A0996-05	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.05	5				100	PDI-074SC-A-06-07-191012				
	A0A0996-06	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.28	5				100	PDI-074SC-A-07-08-191012				
	A0A1002-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.21	5				100	PDI-076SC-A-08-09-191013				

GM 01/31/20
Prepared By: Date

cas 01/31/2020
Reviewed By: Date

AGG 1/31/20

Printed: 1/31/2020 10:29:53AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010978 (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	pH other	pH >11
	A0A1002-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.43	5				100	PDI-076SC-A-09 -10-191013				
	A0A1010-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.05	5				100	PDI-026SC-A-06 -07-191014				
	A0A1011-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.16	5				100	PDI-057SC-A-06 -07-191023				
	A0A1011-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.33	5				100	PDI-057SC-A-07 -08-191023				
	A0A1011-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10.73	5				100	PDI-057SC-A-08 -09-191023				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19H078	02/02/20	LVI PAH Spike @2000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

Method 3546 digestion time and temperture achieved.
Initial: CH

Witness: _____

Prepared By: _____ Date _____

Reviewed By: _____ Date _____

Printed: 1/31/2020 10:29:53AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010978 (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	pH other	pH >11
1	0010978-BLK1		QC	01/31/20 07:07	10 / 11.00	5				100					
2	0010978-BS1		QC	01/31/20 07:07	10	5	A19H078		100	100					
3	A0A0991-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.04	5				100	PDI-035SC-A-01-02-191010	Sand, odor ☆ S			
4	A0A0991-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.12	5				100	PDI-035SC-A-02-03-191010	Sand ☆ S			
5	A0A0991-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.28	5				100	PDI-041SC-A-03-04-191010	Soft Sediment			
6	A0A0991-04	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.55	5				100	PDI-045SC-A-04-05-191010	Sediment			
7	A0A0991-05	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.31	5				100	PDI-045SC-A-05-06-191010	Sediment			
8	A0A0991-06	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.40	5				100	PDI-067SC-A-06-07-191010	MS/MSD Sediment			
9	0010978-MS1		QC	01/31/20 07:07	10 / 10.31	5	A19H078	A0A0991-06	100	100					
10	0010978-MSD1		QC	01/31/20 07:07	10 / 10.27	5	A19H078	A0A0991-06	100	100					
11	A0A0994-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.34	5				100	PDI-066SC-A-07-08-191011	mud, S			
12	A0A0994-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.20	5				100	PDI-066SC-A-08-09-191011	mud, S			
13	A0A0996-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.63	5				100	PDI-015SC-A-09-10-191012	mud			
14	A0A0996-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.66	5				100	PDI-037SC-A-04-05-191012	sand, odor			
15	A0A0996-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.40	5				100	PDI-037SC-A-05-06-191012	Sand			
16	A0A0996-04	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.58	5				100	PDI-037SC-A-06-07-191012	Sand			
17	A0A0996-05	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.05	5				100	PDI-074SC-A-06-07-191012	mud			
18	A0A0996-06	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.28	5				100	PDI-074SC-A-07-08-191012	mud			
19	A0A1002-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.21	5				100	PDI-076SC-A-08-09-191013	mud			
20	A0A1002-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10 / 10.43	5				100	PDI-076SC-A-09-10-191013	mud			

Prepared By: [illegible] Date: 1-31-20

CAH 01/31/20

Reviewed By: CAS Date: 01/31/2020

Printed: 1/31/2020 7:08:05AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010978 (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	pH other	pH >11
21	A0A1010-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10/10.05	5				100	PDI-026SC-A-06-07-191014	sand			
22	A0A1011-01	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10/10.16	5				100	PDI-057SC-A-06-07-191023	mud			
23	A0A1011-02	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10/10.33	5				100	PDI-057SC-A-07-08-191023	mud			
24	A0A1011-03	A	8270D LL PAH Only (Scan)	01/31/20 07:07	10/10.73	5				100	PDI-057SC-A-08-09-191023	mud			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19H078	02/02/20	LVI PAH Spike @2000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

Method 3546 digestion time and temperture achieved. yes

Initial: AJO

Witness: CAM 01/31/20

☆ = concentrated apart from QC & batch to avoid contamination. AJO 1/31/20

B = staining on turbovap tube. AJO 1/31/20

AJO 1-31-20

Prepared By: Date

Reviewed By: Date

Printed: 1/31/2020 7:08:05AM

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B03036** Instrument: **SV-GCMS14**

Date: **02/03/20 08:11** Calibration: **A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B03036-TUN1	Sediment	QC	QC			A19K048	A20A236
2	0B03036-CCV1	Sediment	QC	QC			A19K048	A19K012
3	0B03036-CCB1	Sediment	QC	QC			A19K048	
4	A0A1002-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
5	A0A1011-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
6	A0A1011-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
7	A0A1011-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
8	0B03036-IBL1	Sediment	QC	QC			A19K048	
9	A0A1010-01RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
10	A0A0996-01RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
11	A0A0991-02RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
12	A0A0996-04RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
13	0B03036-IBL2	Sediment	QC	QC			A19K048	

Data Entered By: AMS 2/4/20

Data Reviewed By: [illegible] 2/4/20

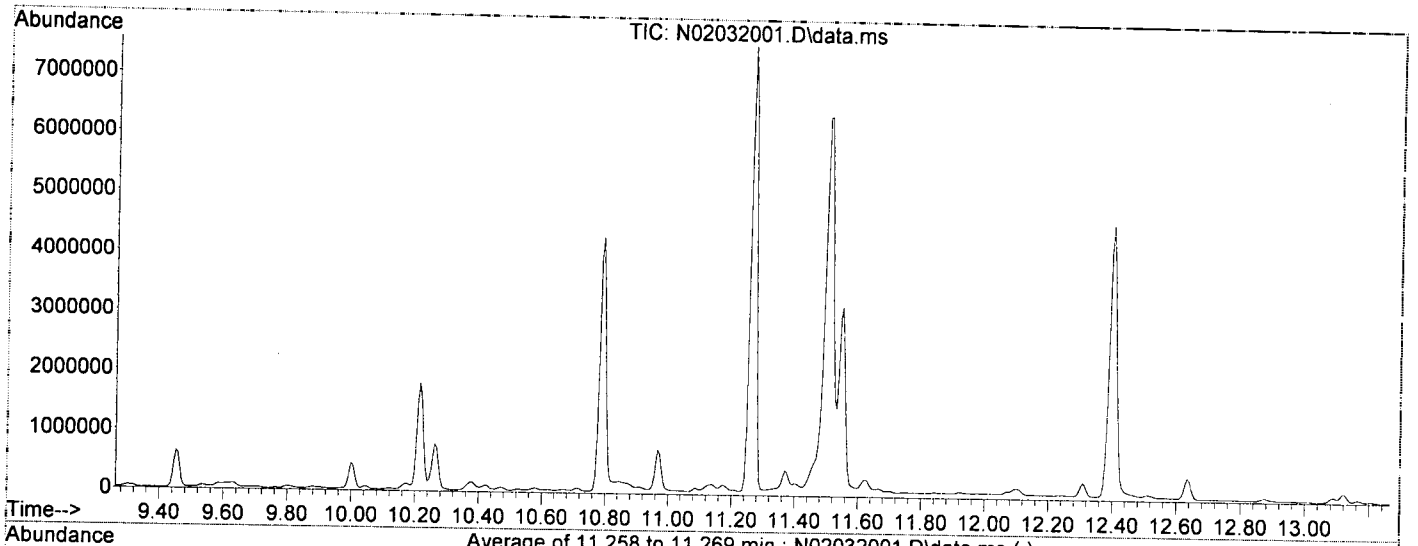
Comments:

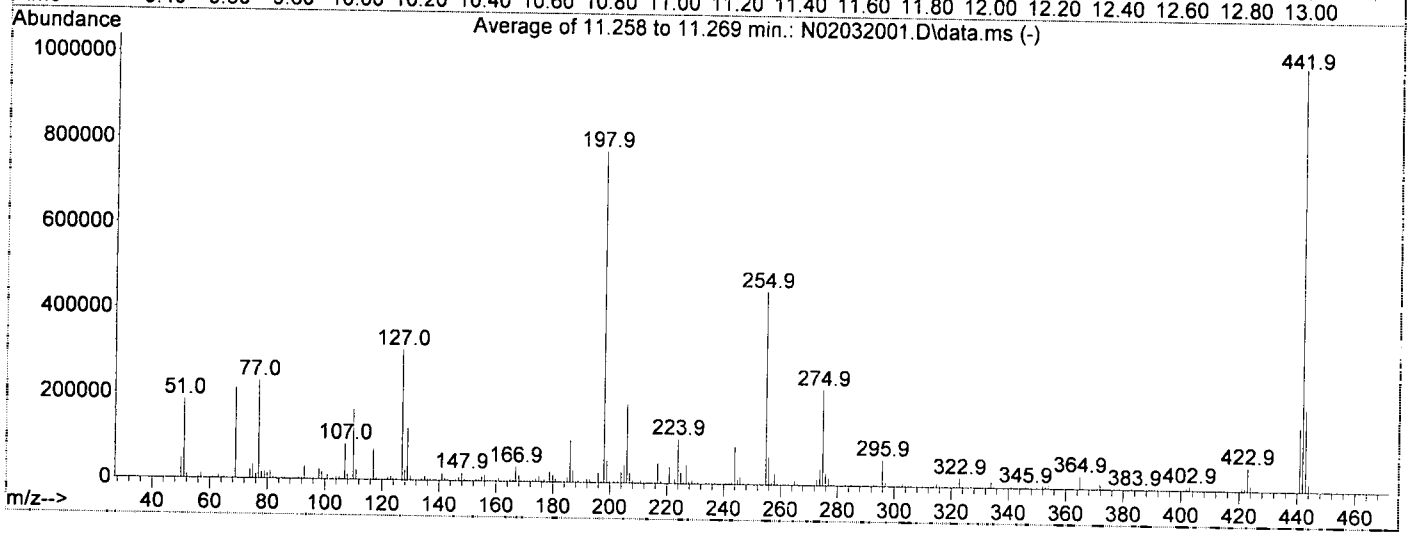
Data Path : U:\data\2020-02\0B03036\
Data File : N02032001.D
Acq On : 03 Feb 2020 08:23
Operator : JK/ AMS/ DTH
Sample : 0B03036-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1

AMS 2/4/20

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Wed Nov 06 13:10:03 2019





AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3439	PASS
69	69	100	100	100.0	212236	PASS
70	69	0.00	2	0.5	1004	PASS
197	198	0.00	2	0.5	4008	PASS
198	198	100	100	100.0	776226	PASS
199	198	5	9	6.8	52766	PASS
365	198	1	100	3.9	30349	PASS
441	443	0.01	150	77.5	148869	PASS
442	198	0.10	200	127.4	989141	PASS
443	442	15	24	19.4	192000	PASS

✓

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032001.D
Acq On : 03 Feb 2020 08:23
Operator : JK/ AMS/ DTH
Sample : 0B03036-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 07:32:38 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

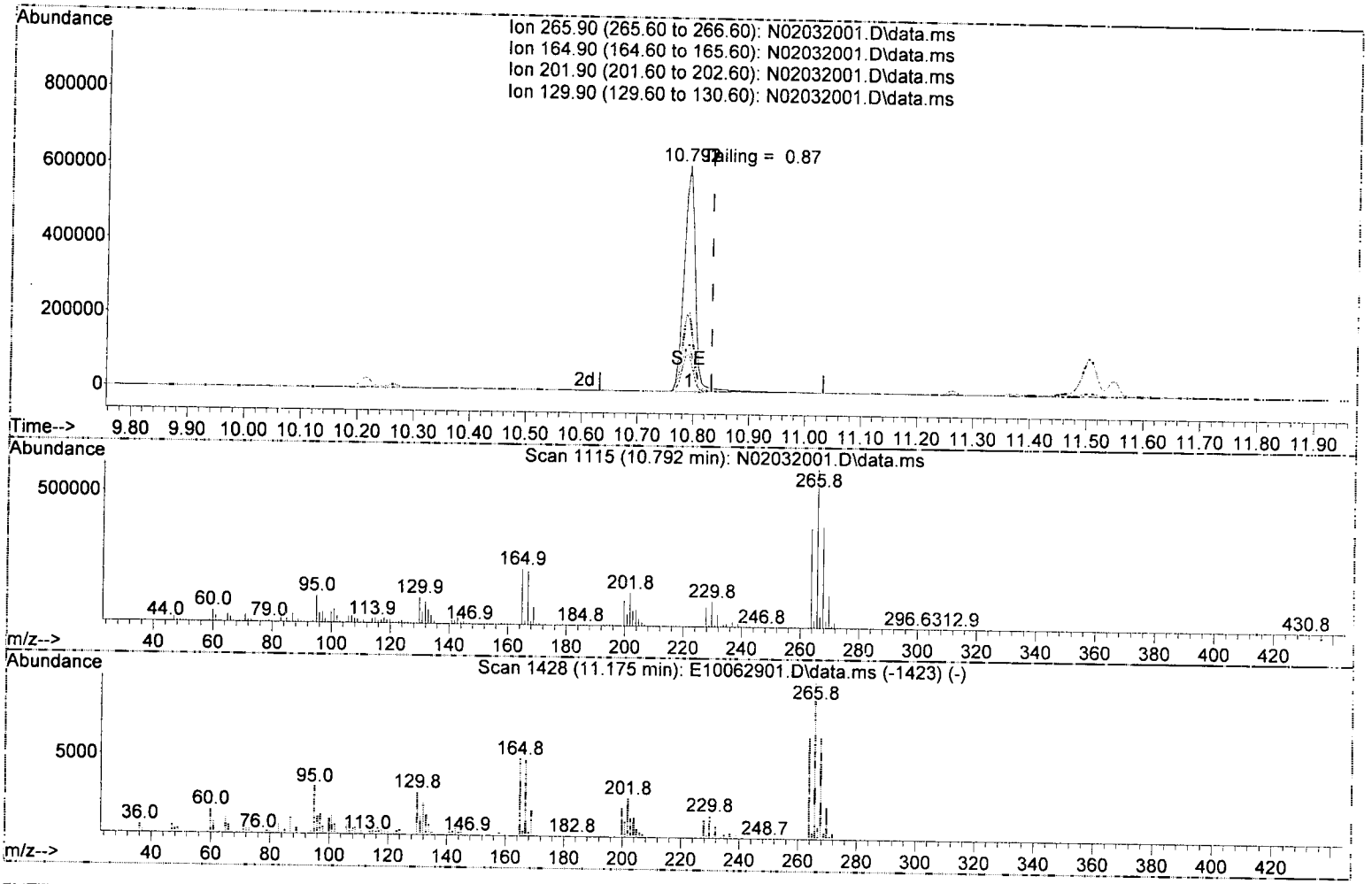
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.484	150	117359	2.00	ug/mL	-0.04
2) Naphthalene-d8	7.691	136	351030	2.00	ug/mL	-0.04
3) Acenaphthene-d10	9.451	162	192870	2.00	ug/mL	-0.04
5) Phenanthrene-d10	10.966	188	361168	2.00	ug/mL	-0.04
11) Chrysene-d12	14.574	240	305225	2.00	ug/mL	-0.06
12) Perylene-d12	16.678	264	297412	2.00	ug/mL	-0.05
13) Dibenz(a,h)anthracene-...	17.862	292	258839	2.00	ug/mL	#-0.06
Target Compounds						Qvalue
4) Pentachlorophenol	10.792	266	855590	46.98	ug/mL	81
6) DFTPP	11.269	442	1540680	52.84	ug/mL	69
7) Benzidine	12.400	184	3230118	25.14	ug/mL	97
8) 4,4-DDE	12.633	TIC	510804	No Calib		
9) 4,4-DDD	13.117	TIC	207970	No Calib		
10) 4,4-DDT	13.642	TIC	12553254	33.89	ug/mL	95

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032001.D
Acq On : 03 Feb 2020 08:23
Operator : JK/ AMS/ DTH
Sample : 0B03036-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 07:32:38 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032001.D\data.ms

(4) Pentachlorophenol

10.792min (-0.041) 46.98 ug/mL

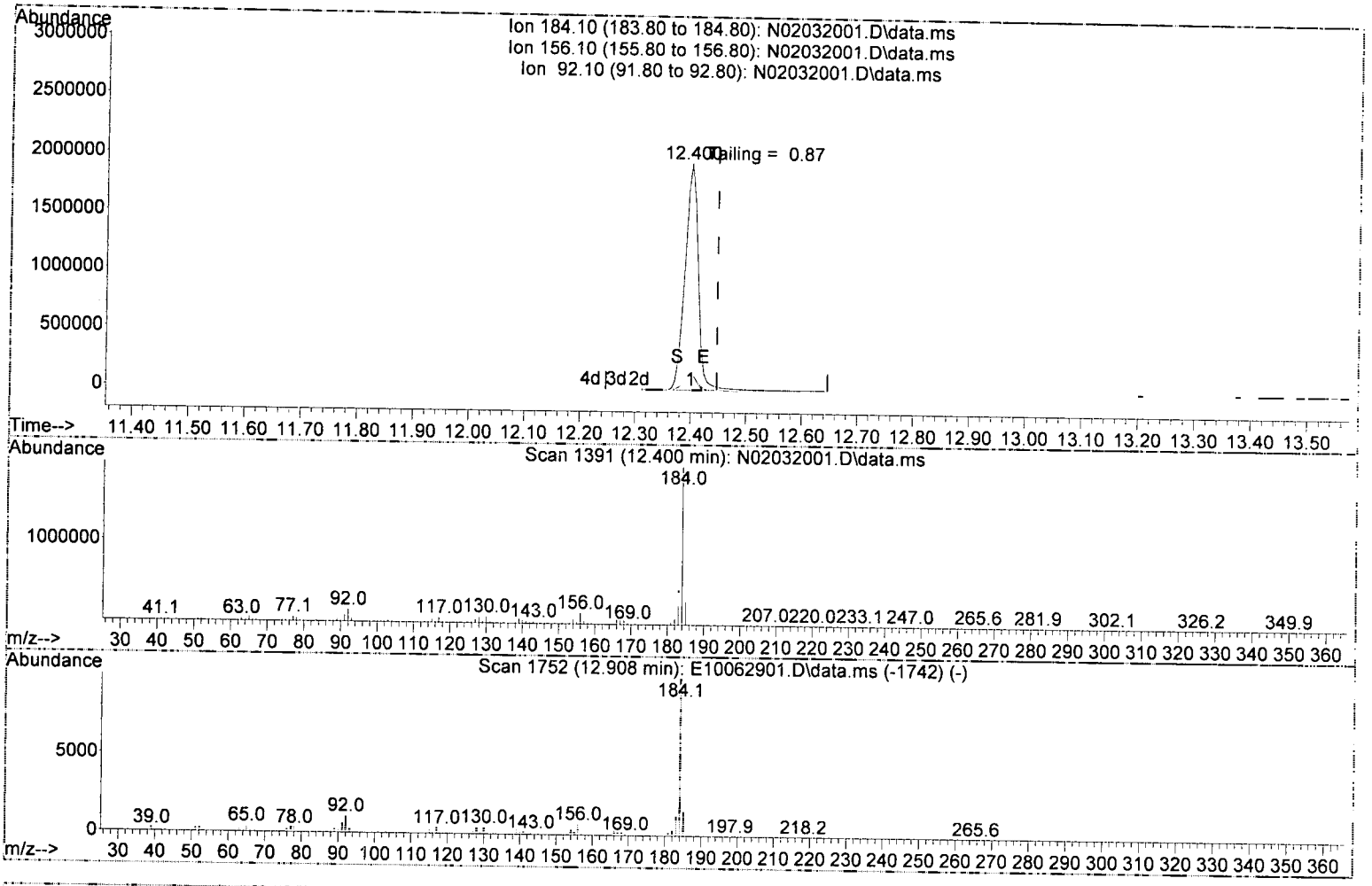
response 855590

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	35.02
201.90	25.80	20.89
129.90	27.30	16.38

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032001.D
Acq On : 03 Feb 2020 08:23
Operator : JK/ AMS/ DTH
Sample : 0B03036-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 07:32:38 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032001.D\data.ms

(7) Benzidine

12.400min (-0.047) 25.14 ug/mL

response 3230118

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.95
92.10	8.20	7.71
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
0B03036-TUN1
SV-GCMS14

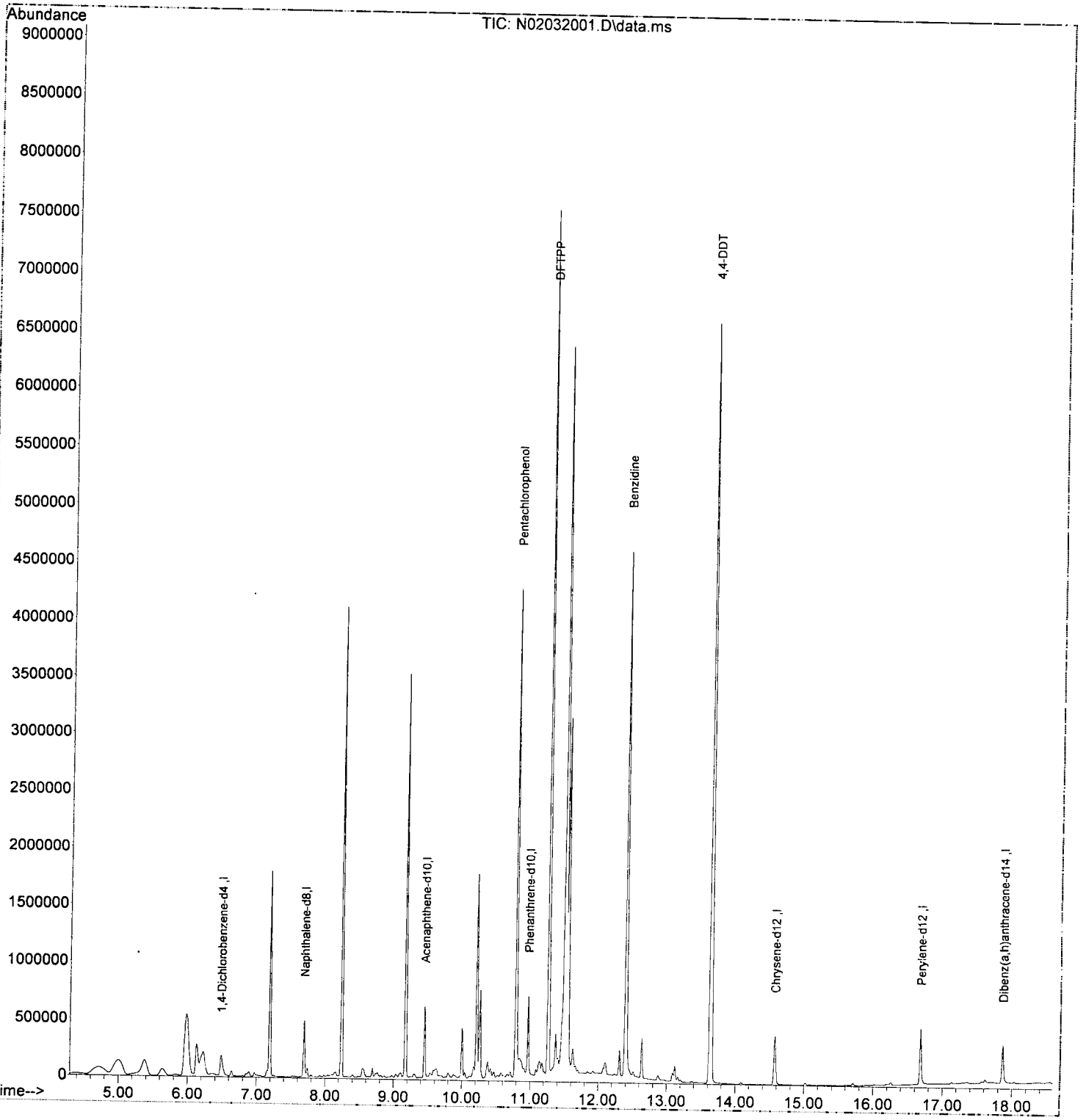
First Column Area Counts		Percent Breakdown	
DDE	510804		
DDD	207970		
DDT	11255254	5.42	PASS

Breakdown must be less than 20% to accept sample data.

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032001.D
Acq On : 03 Feb 2020 08:23
Operator : JK/ AMS/ DTH
Sample : 0B03036-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 07:32:38 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2020-02\0B03036\
Data File : N02032002.D
Acq On : 03 Feb 2020 08:50
Operator : JK/ AMS/ DTH
Sample : 0B03036-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/14/20

Quant Time: Feb 04 07:34:57 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

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	124	-0.01
2	S	Nitrobenzene-d5 (Surr)	50.000	50.079	-0.2	128	-0.01
3	T	Decalin	50.000	25.351	49.3#	63	-0.01
4	T	Naphthalene	50.000	48.702	2.6	124	0.00
5	T	2-Methylnaphthalene	50.000	40.580	18.8	100	-0.01
6	T	1-Methylnaphthalene	50.000	40.619	18.8	98	-0.01
7	T	1,1'-Biphenyl	50.000	38.056	23.9#	95	0.00
8	T	2,6-Dimethylnaphthalene	50.000	37.366	25.3#	91	-0.01
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	95	-0.01
10	S	2-Fluorobiphenyl (Surr)	50.000	52.590	-5.2	100	-0.01
11	S	Acenaphthylene d-8 (Surr)	50.000	1.348	97.3#	5	-0.01
12	T	Acenaphthylene	50.000	46.774	6.5	89	0.00
13	T	Acenaphthene	50.000	47.688	4.6	92	0.00
14	T	Dibenzofuran	50.000	48.204	3.6	91	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	46.764	6.5	90	0.00
16	T	Fluorene	50.000	45.540	8.9	87	-0.01
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	92	0.00
18	T	Dibenzothiopene	50.000	48.163	3.7	90	0.00
19	T	Phenanthrene	50.000	47.837	4.3	90	0.00
20	T	Anthracene	50.000	45.530	8.9	85	0.00
21	T	Carbazole	50.000	40.165	19.7	75	-0.01
22	T	1-Methylphenanthrene	50.000	48.964	2.1	91	-0.01
23	T	Fluoranthene	50.000	50.413	-0.8	94	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	97	-0.02
25	T	Pyrene	50.000	48.497	3.0	94	-0.01
26	S	Terphenyl-d14 (Surr)	50.000	45.719	8.6	90	-0.01
27	T	Benz(a)anthracene	50.000	43.281	13.4	89	-0.02
28	T	Chrysene	50.000	46.936	6.1	93	-0.02
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	108	-0.02
30	T	Benzo(b)fluoranthene	50.000	46.171	7.7	99	-0.02
31	T	Benzo(k)fluoranthene	50.000	46.271	7.5	102	-0.01
32	T	Benzo(b+k)fluoranthene	100.000	93.815	6.2	102	-0.01
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34	T	Benzo(e)pyrene	50.000	46.207	7.6	102	-0.02
35	T	Benzo(a)pyrene	50.000	46.262	7.5	99	-0.02
36	T	Perylene	50.000	49.053	1.9	106	-0.02
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	128	-0.02
38	T	Indeno(1,2,3-cd)Pyrene	50.000	45.105	9.8	116	-0.02
39	T	Dibenz(a,h)anthracene	50.000	46.883	6.2	121	-0.02
40	T	Benzo(g,h,i)perylene	50.000	46.504	7.0	117	-0.01

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

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032002.D
Acq On : 03 Feb 2020 08:50
Operator : JK/ AMS/ DTH
Sample : 0B03036-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:34:57 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

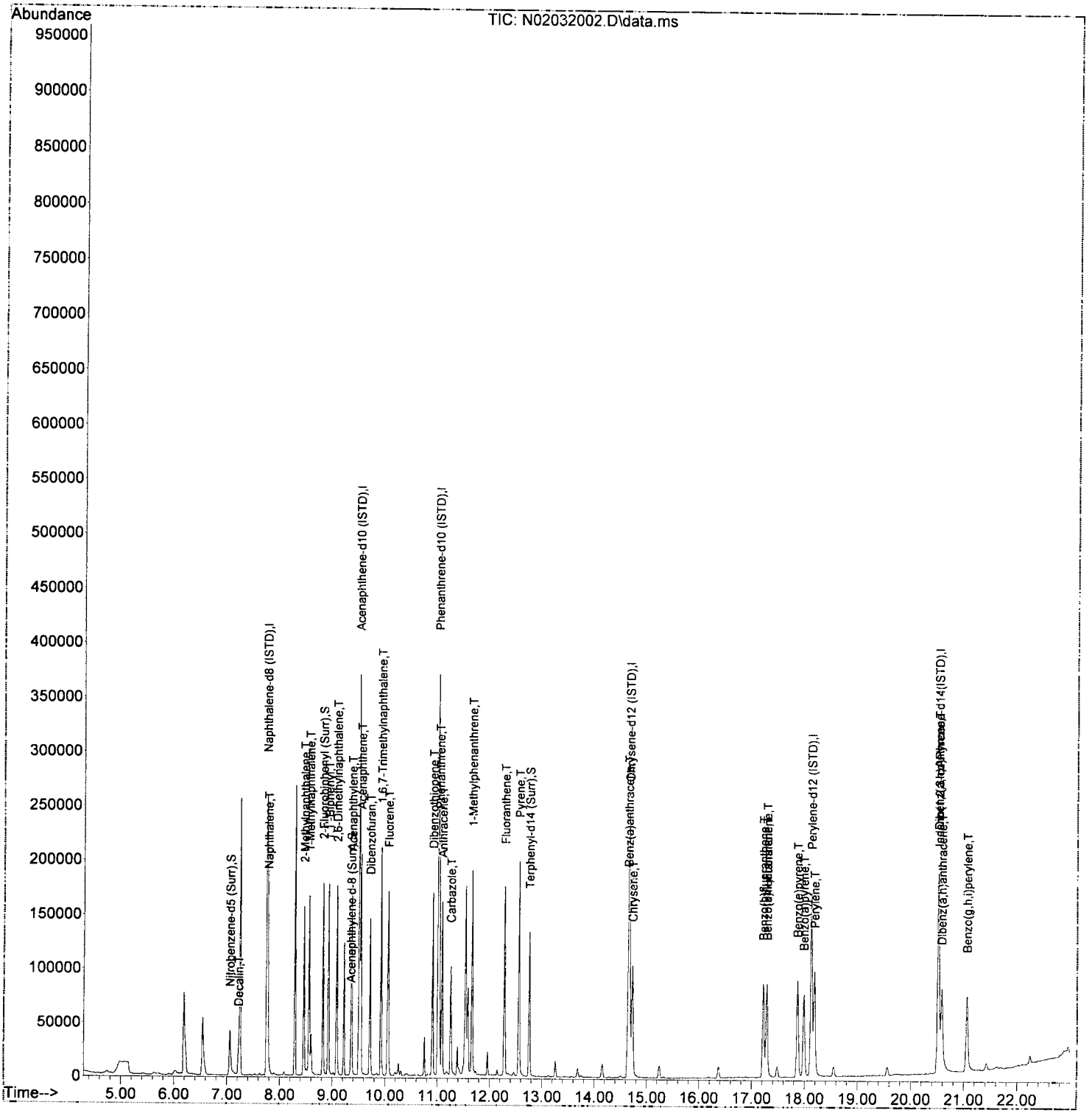
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	184696	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.503	162	111659	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	202803	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	165369	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	154461	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	119262	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	30735	50.08	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	8.816	172	87603	52.59	ng/ml	-0.01
11) Acenaphthylene d-8 (Surr)	9.346	160	6262	1.35	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	79516	45.72	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.219	138	3486	25.35	ng/ml	93
4) Naphthalene	7.772	128	99208	48.70	ng/ml	99
5) 2-Methylnaphthalene	8.454	142	70050	40.58	ng/ml	97
6) 1-Methylnaphthalene	8.553	142	70103	40.62	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	88352	38.06	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.078	156	63355	37.37	ng/ml	99
12) Acenaphthylene	9.364	152	113386	46.77	ng/ml	99
13) Acenaphthene	9.538	153	75717	47.69	ng/ml	99
14) Dibenzofuran	9.713	168	95864	48.20	ng/ml	96
15) 1,6,7-Trimethylnaphtha...	9.923	170	62270	46.76	ng/ml	99
16) Fluorene	10.057	166	73990	45.54	ng/ml	98
18) Dibenzothiopene	10.908	184	102157	48.16	ng/ml	96
19) Phenanthrene	11.036	178	113523	47.84	ng/ml	99
20) Anthracene	11.089	178	100503	45.53	ng/ml	99
21) Carbazole	11.252	167	71741	40.17	ng/ml	98
22) 1-Methylphenanthrene	11.660	192	80719	48.96	ng/ml	97
23) Fluoranthene	12.284	202	120538	50.41	ng/ml	95
25) Pyrene	12.558	202	125299	48.50	ng/ml	99
27) Benz(a)anthracene	14.644	228	83099	43.28	ng/ml	98
28) Chrysene	14.726	228	85279	46.94	ng/ml	99
30) Benzo(b)fluoranthene	17.215	252	82290	46.17	ng/ml	93
31) Benzo(k)fluoranthene	17.285	252	81198	46.27	ng/ml	91
32) Benzo(b+k)fluoranthene	17.285	252	171029	93.81	ng/ml	91
34) Benzo(e)pyrene	17.862	252	83274	46.21	ng/ml	98
35) Benzo(a)pyrene	17.984	252	70573	46.26	ng/ml	96
36) Perylene	18.182	252	92166	49.05	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.520	276	66344	45.11	ng/ml	78
39) Dibenz(a,h)anthracene	20.578	278	64796	46.88	ng/ml	82
40) Benzo(g,h,i)perylene	21.056	276	72561	46.50	ng/ml	99

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

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032002.D
Acq On : 03 Feb 2020 08:50
Operator : JK/ AMS/ DTH
Sample : 0B03036-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:34:57 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032003.D
Acq On : 03 Feb 2020 09:26
Operator : JK/ AMS/ DTH
Sample : 0B03036-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/4/20

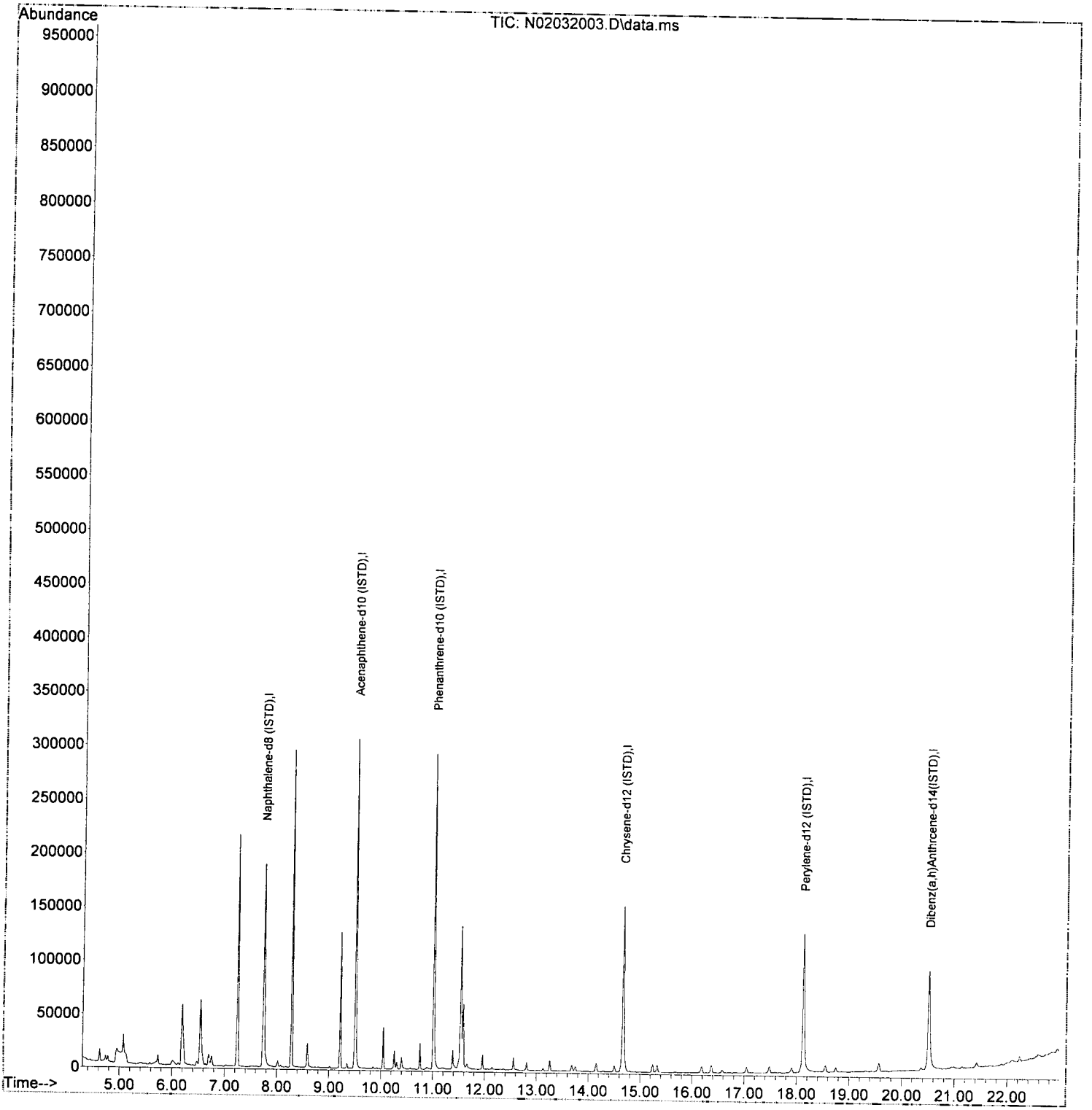
Quant Time: Feb 04 07:34:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	183372	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.503	162	103703	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	181325	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	134709	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	127677	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	100915	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.352	160	3165	0.07	ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.778	128	193	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	9.364	152	141	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	0.000		0	N.D.		
19) Phenanthrene	11.036	178	256	N.D.		
20) Anthracene	11.036	178	247	N.D.		
21) Carbazole	11.275	167	51	N.D.		
22) 1-Methylphenanthrene	0.000		0	N.D.		
23) Fluoranthene	12.290	202	119	N.D.		
25) Pyrene	12.569	202	169	N.D.		
27) Benz(a)anthracene	14.668	228	398	N.D.		
28) Chrysene	14.726	228	167	N.D.		
30) Benzo(b)fluoranthene	17.221	252	69	N.D.		
31) Benzo(k)fluoranthene	17.221	252	69	N.D.		
32) Benzo(b+k)fluoranthene	17.221	252	69	N.D.		
34) Benzo(e)pyrene	17.996	252	63	N.D.		
35) Benzo(a)pyrene	17.996	252	63	N.D.		
36) Perylene	18.130	252	403	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.525	276	79	N.D.		
39) Dibenz(a,h)anthracene	20.578	278	121	N.D.		
40) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Data Path : U:\data\2020-02\0B03036\
Data File : N02032003.D
Acq On : 03 Feb 2020 09:26
Operator : JK/ AMS/ DTH
Sample : 0B03036-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:34:41 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/4/20

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

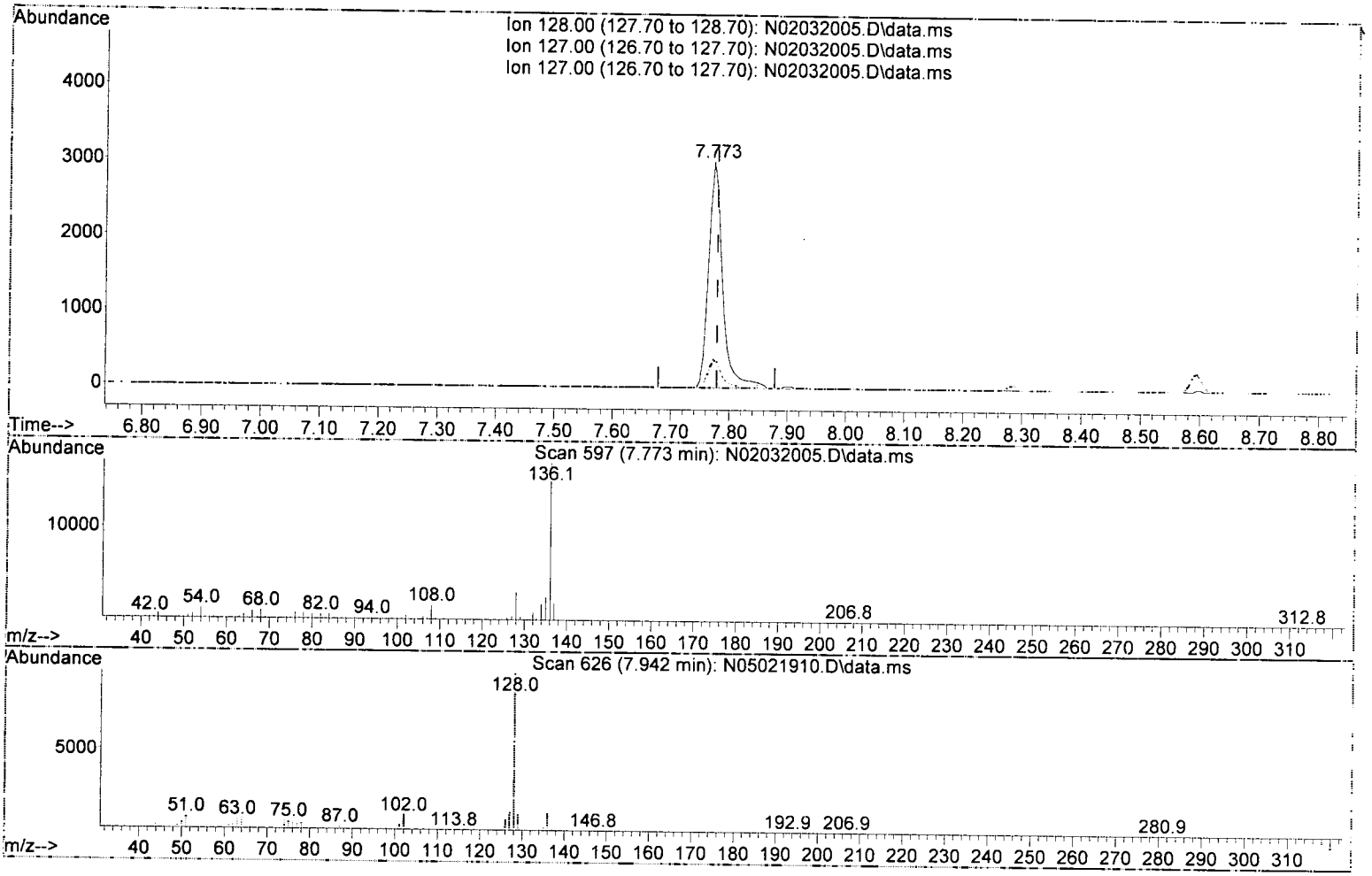
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	139757	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	96909	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	176444	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	153684	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	150047	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	120298	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	8.822	172	70	0.05 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	6404	1.85 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.762	244	180	0.11 ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.773	128	5030	(3.26) ng/ml	100
5) 2-Methylnaphthalene	8.460	142	1097	0.84 ng/ml	94
6) 1-Methylnaphthalene	8.559	142	953	0.73 ng/ml	95
7) 1,1'-Biphenyl	8.927	154	573	N.D.	
8) 2,6-Dimethylnaphthalene	9.090	156	845	0.66 ng/ml	88
12) Acenaphthylene	9.364	152	2405	1.14 ng/ml	95
13) Acenaphthene	9.539	153	15137	[10.98] ng/ml	99
14) Dibenzofuran	9.719	168	530	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.929	170	258	N.D.	
16) Fluorene	10.063	166	6399	(4.54) ng/ml	99
18) Dibenzothiopene	10.908	184	4055	2.20 ng/ml	96
19) Phenanthrene	11.037	178	60968	[29.53] ng/ml	99
20) Anthracene	11.089	178	11334	[5.90] ng/ml	100
21) Carbazole	11.264	167	201	N.D.	
22) 1-Methylphenanthrene	11.660	192	3410	2.38 ng/ml	88
23) Fluoranthene	12.284	202	42458	[20.41] ng/ml	95
25) Pyrene	12.558	202	54775	[22.81] ng/ml	99
27) Benz(a)anthracene	14.644	228	7439	[4.17] ng/ml#	46
28) Chrysene	14.726	228	9674	[5.73] ng/ml	99
30) Benzo(b)fluoranthene	~~17.221~~	~~252~~	~~9095~~	~~5.25 ng/ml~~	~~92~~ MI-HIT
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~11114~~	~~6.52 ng/ml~~	~~90~~ MI-ND
32) Benzo(b+k)fluoranthene	17.221	252	12580	7.10 ng/ml	90
34) Benzo(e)pyrene	17.868	252	6526	3.73 ng/ml	96
35) Benzo(a)pyrene	17.984	252	9042	[6.10] ng/ml	95
36) Perylene	18.182	252	3253	1.78 ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.514	276	7225	(4.87) ng/ml	81
39) Dibenz(a,h)anthracene	20.578	278	738	0.53 ng/ml	83
40) Benzo(g,h,i)perylene	21.050	276	9478	[6.02] ng/ml	98

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(4) Naphthalene (T)

7.773min (-0.006) 3.26 ng/ml

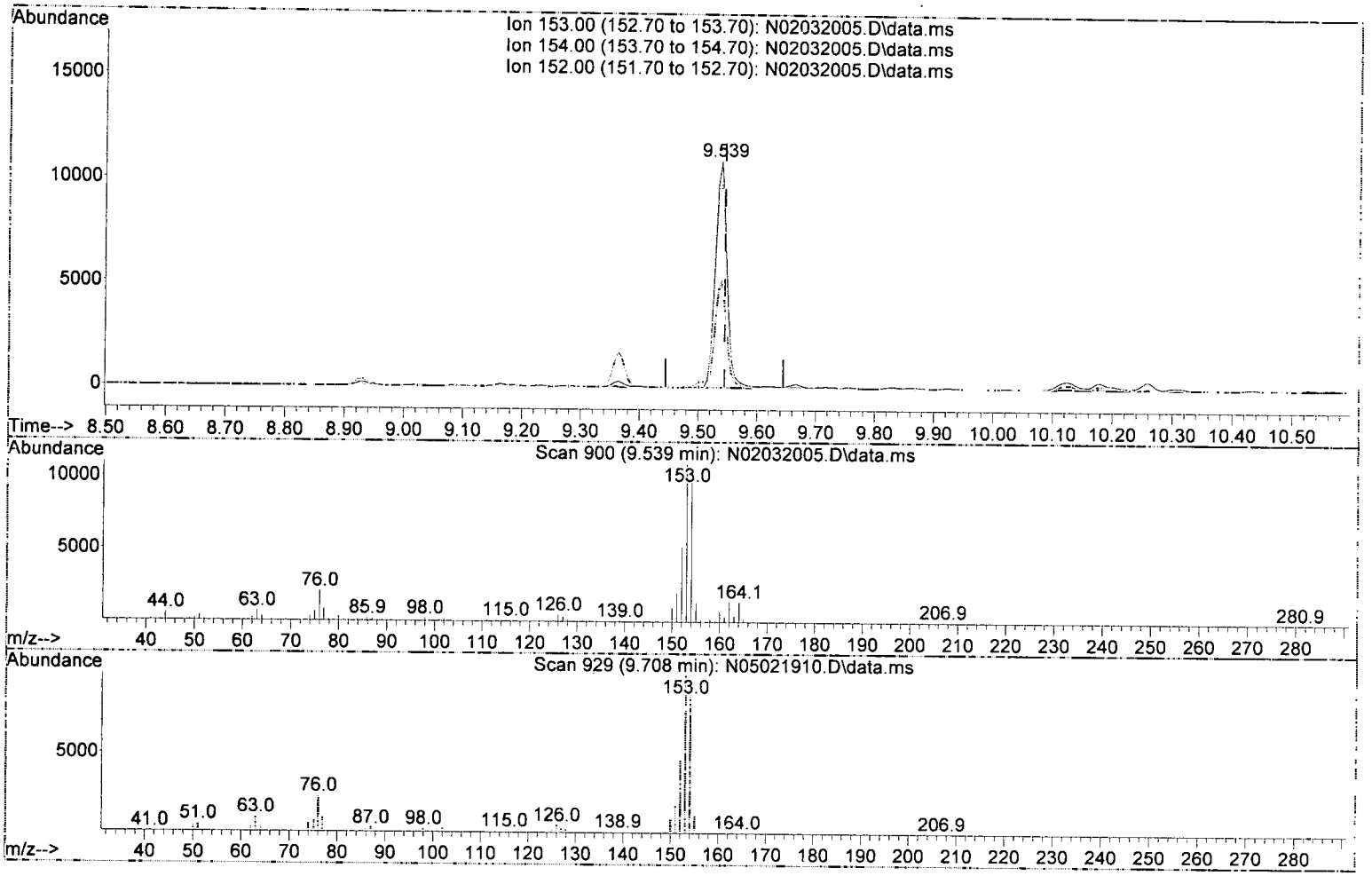
response 5030

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.41
127.00	12.60	12.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 10.98 ng/ml

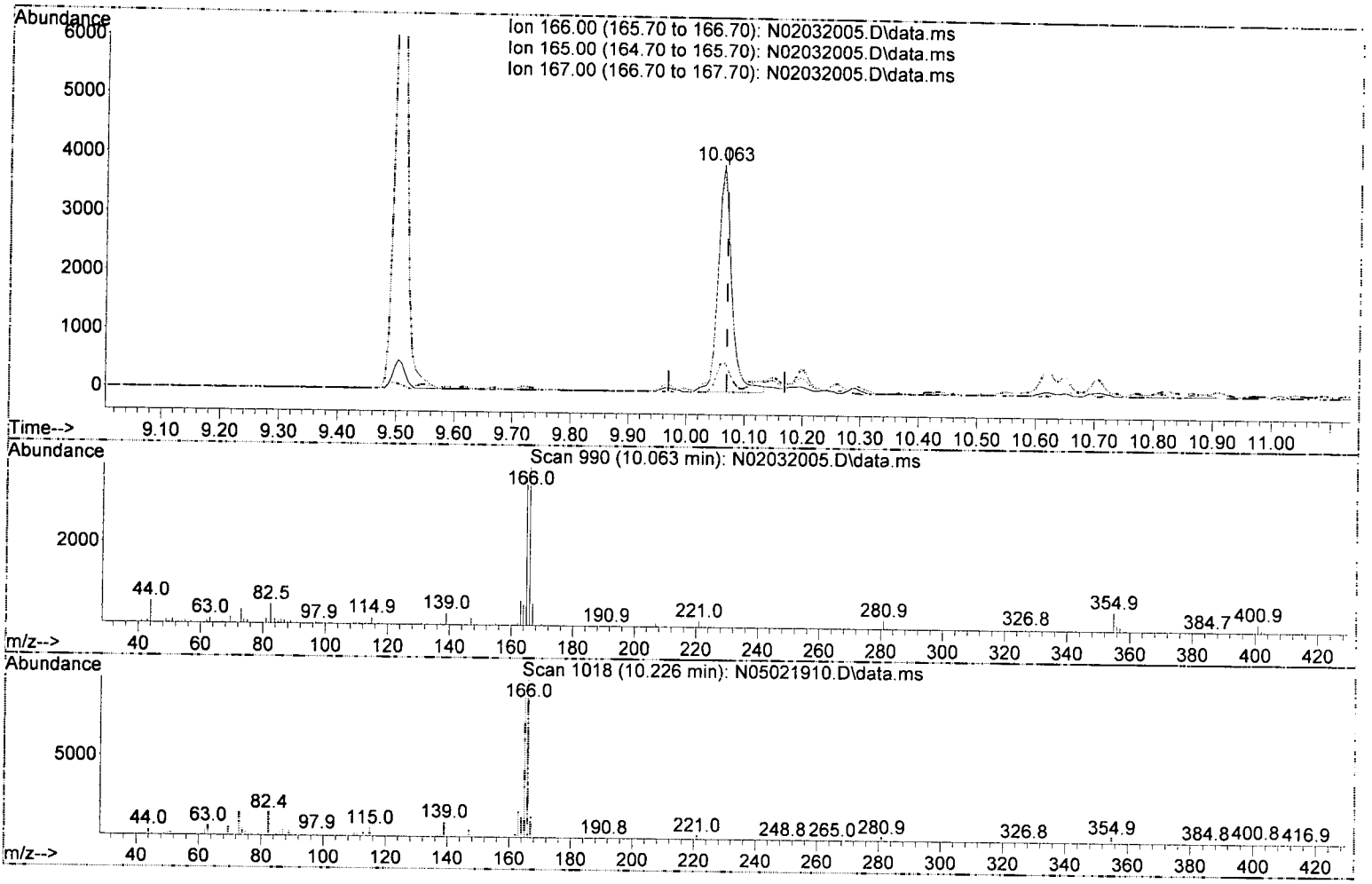
response 15137

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.34
152.00	46.80	47.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 4.54 ng/ml

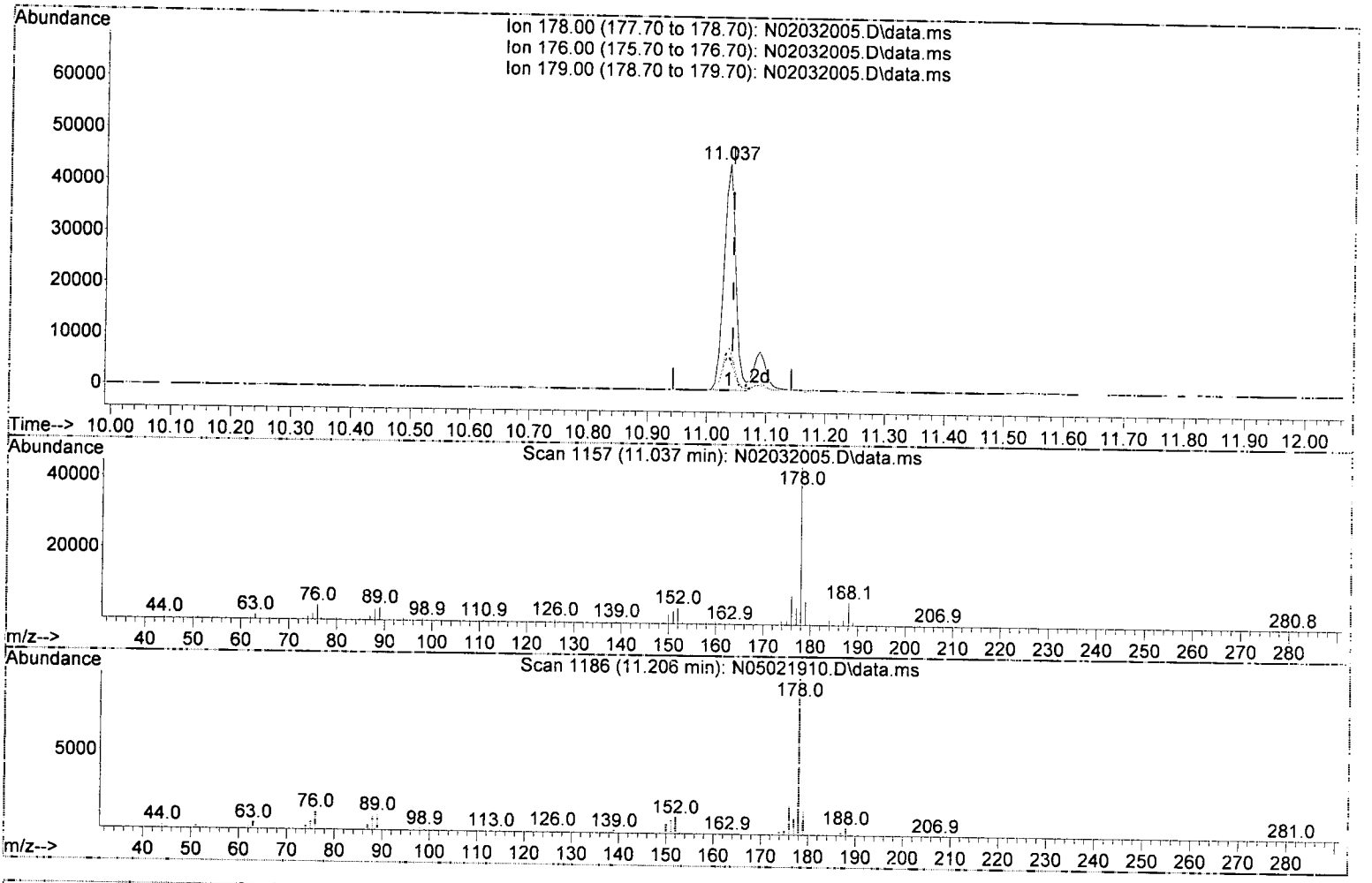
response 6399

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	94.99
167.00	13.60	14.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(19) Phenanthrene (T)

11.037min (-0.006) 29.53 ng/ml

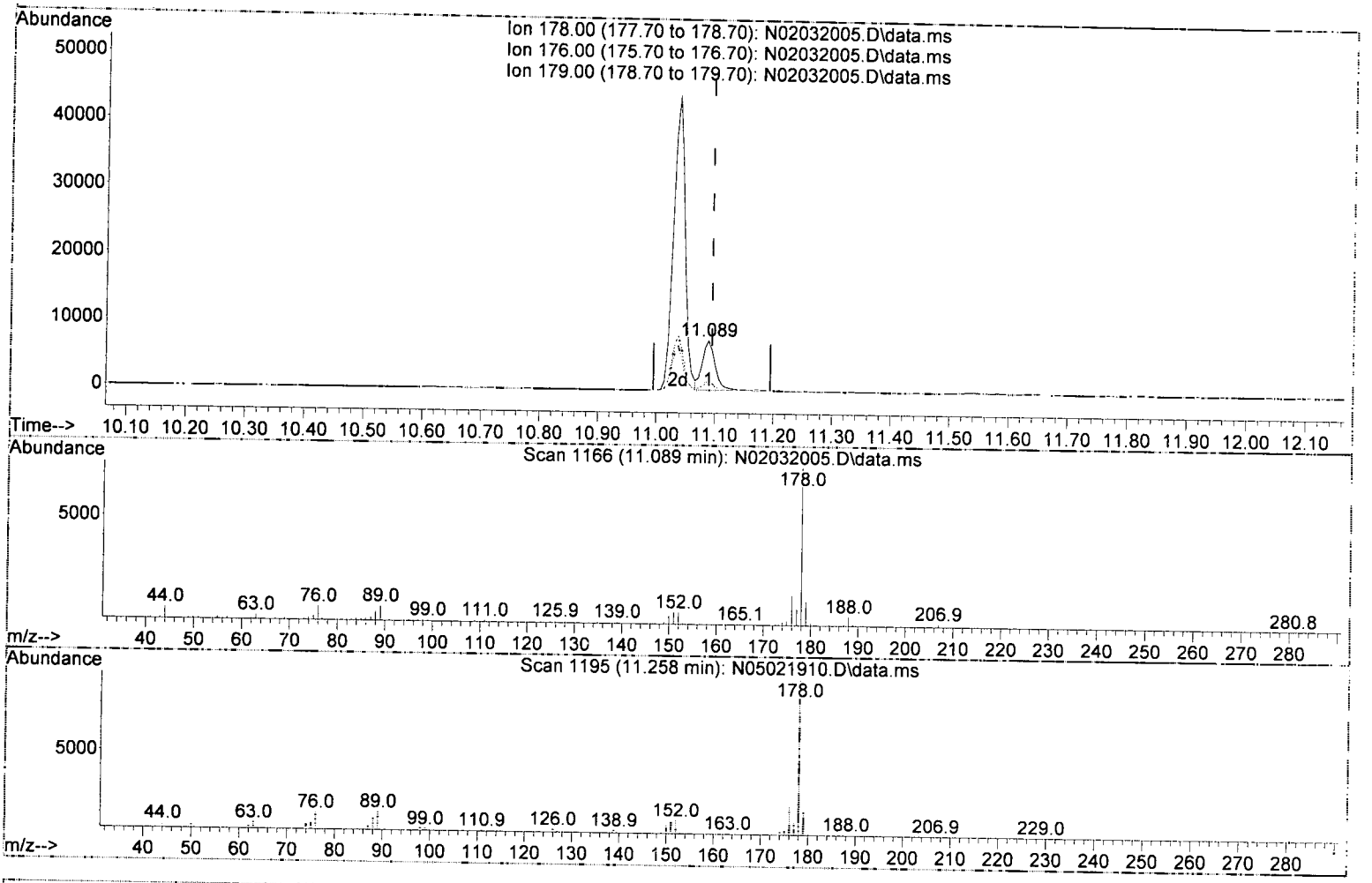
response 60968

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.52
179.00	15.10	15.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 5.90 ng/ml

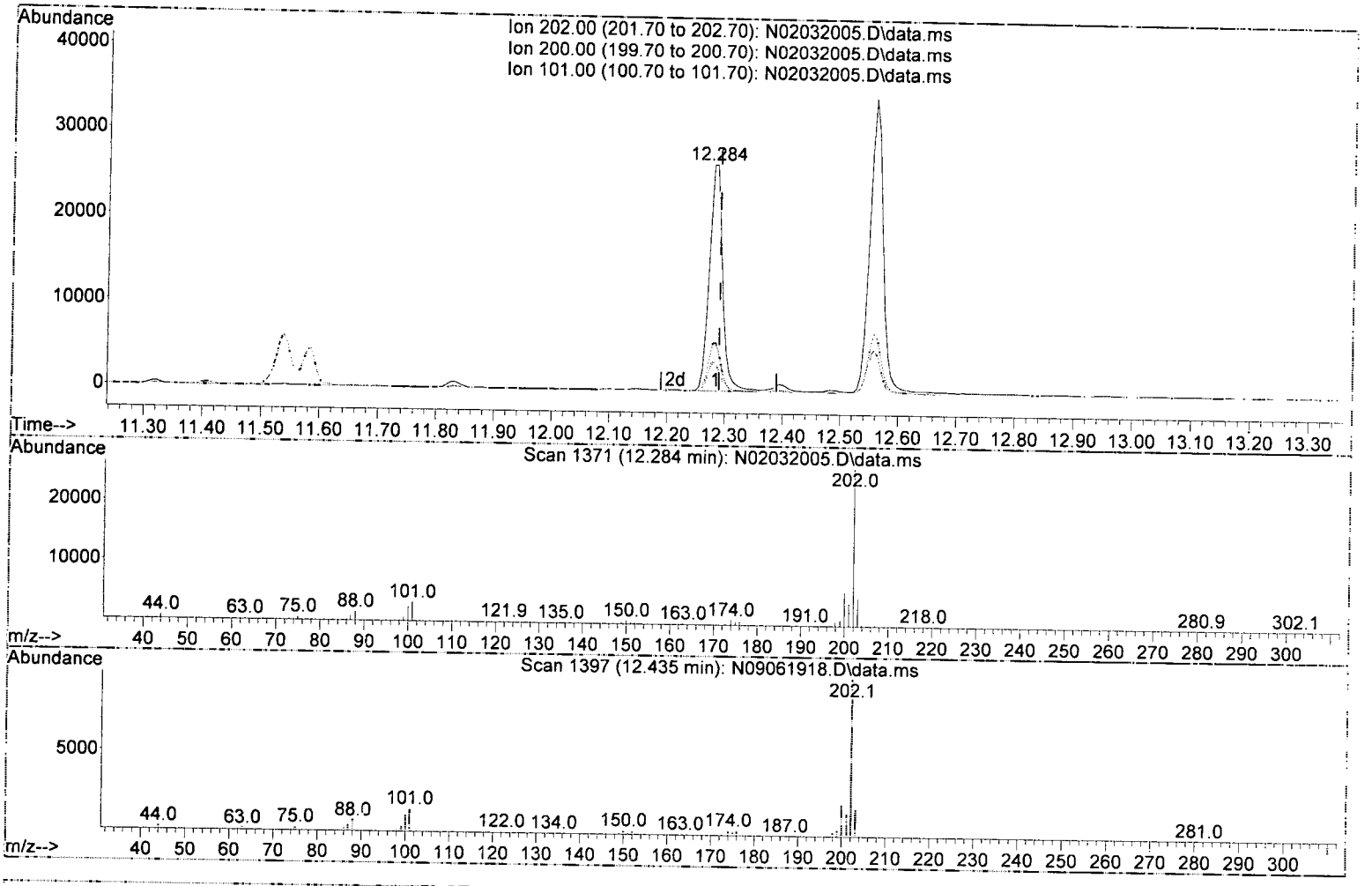
response 11334

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	19.06
179.00	15.30	15.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 20.41 ng/ml

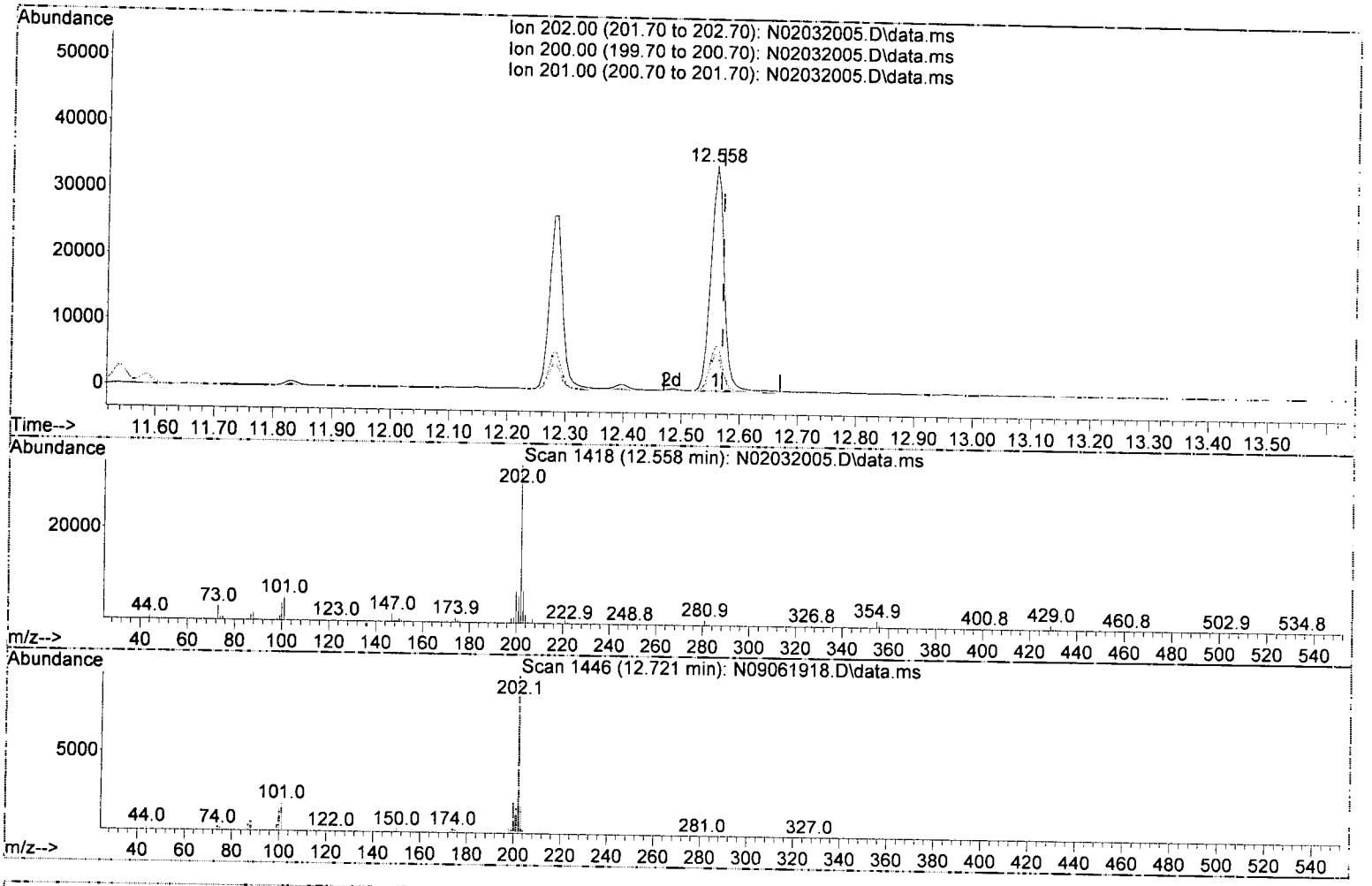
response 42458

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	21.00
101.00	15.30	11.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 22.81 ng/ml

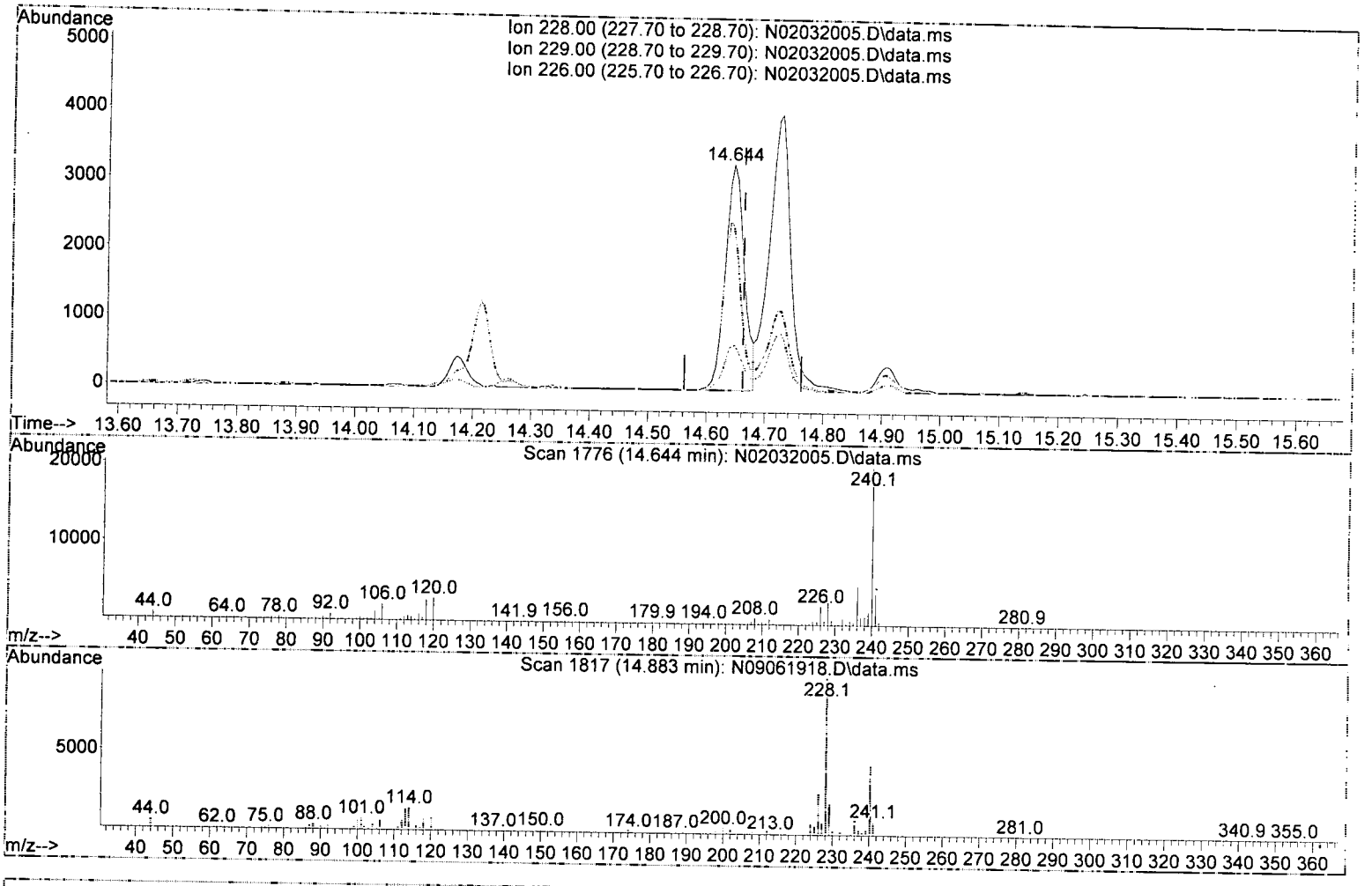
response 54775

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.25
201.00	16.80	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.017) 4.17 ng/ml

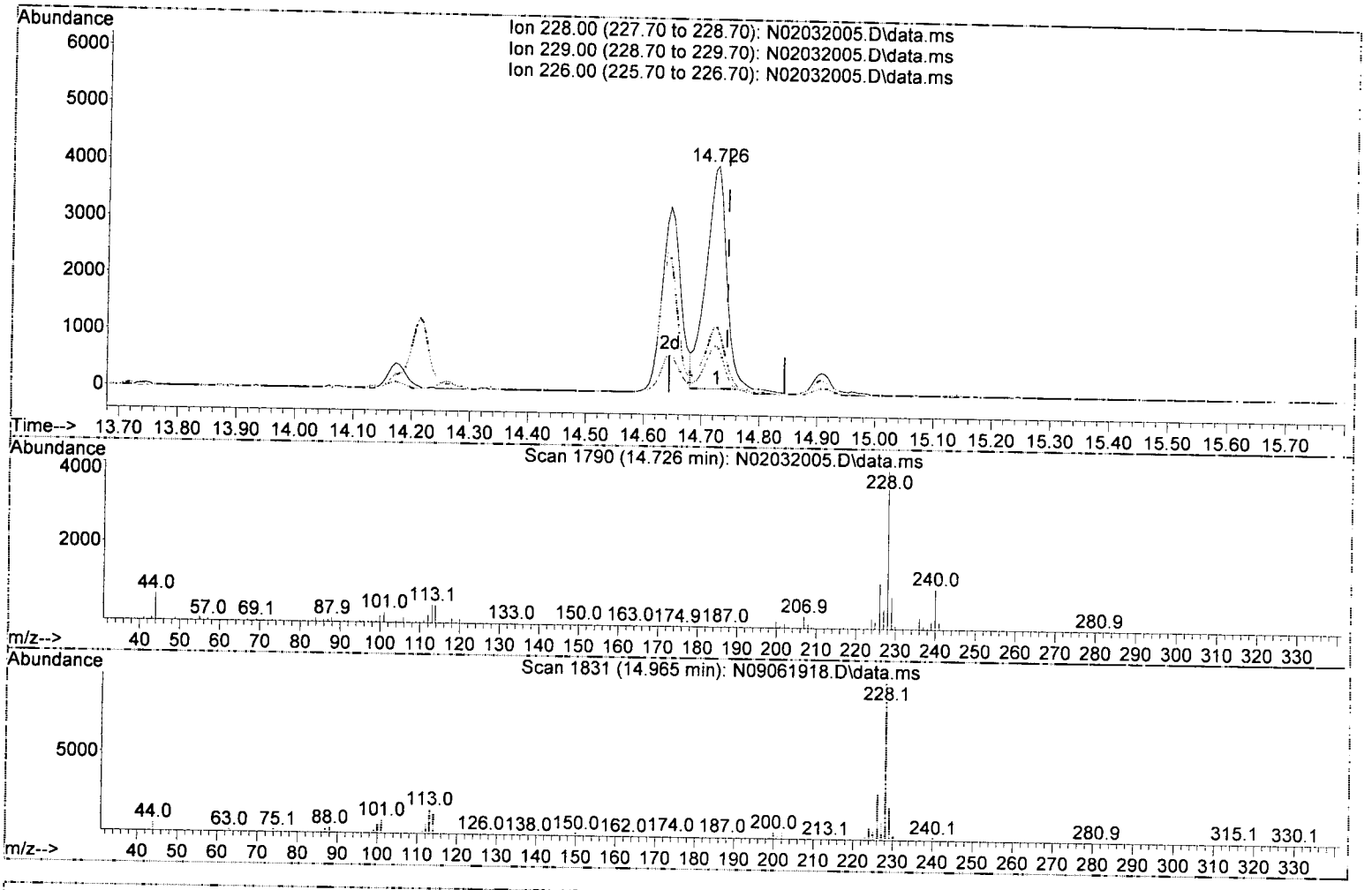
response 7439

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.19
226.00	26.20	73.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(28) Chrysene (T)

14.726min (-0.017) 5.73 ng/ml

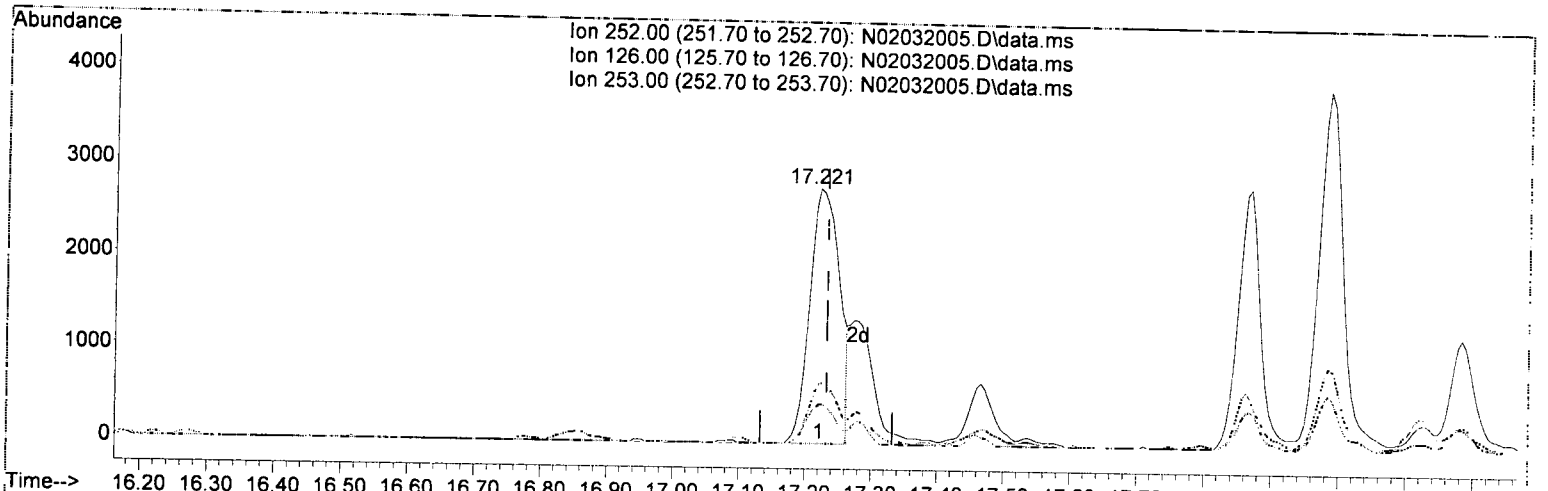
response 9674

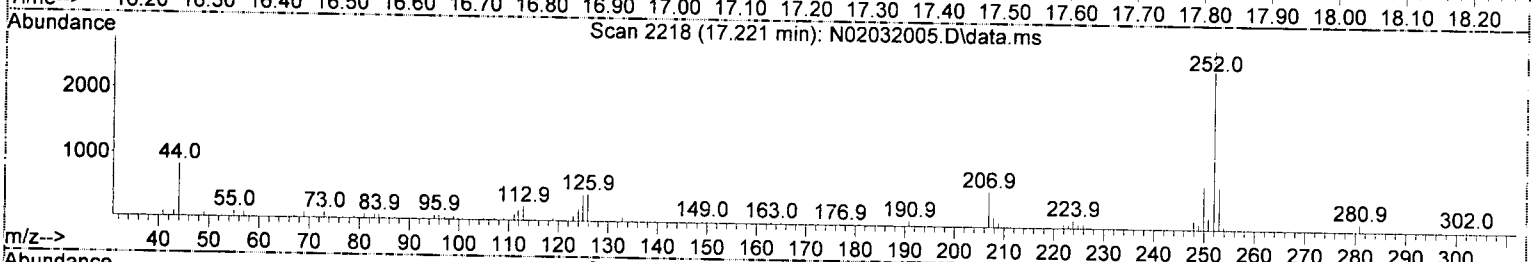
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.58
226.00	28.60	28.85
0.00	0.00	0.00

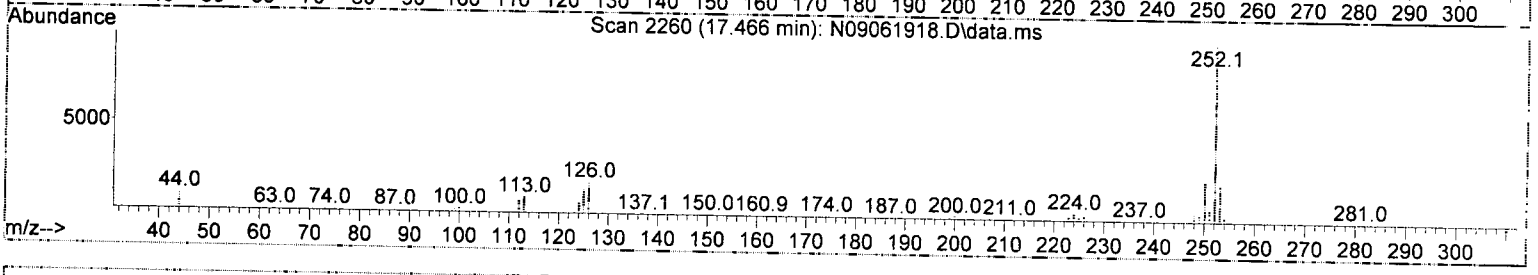
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02032005.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 4.99 ng/ml m

response 8643

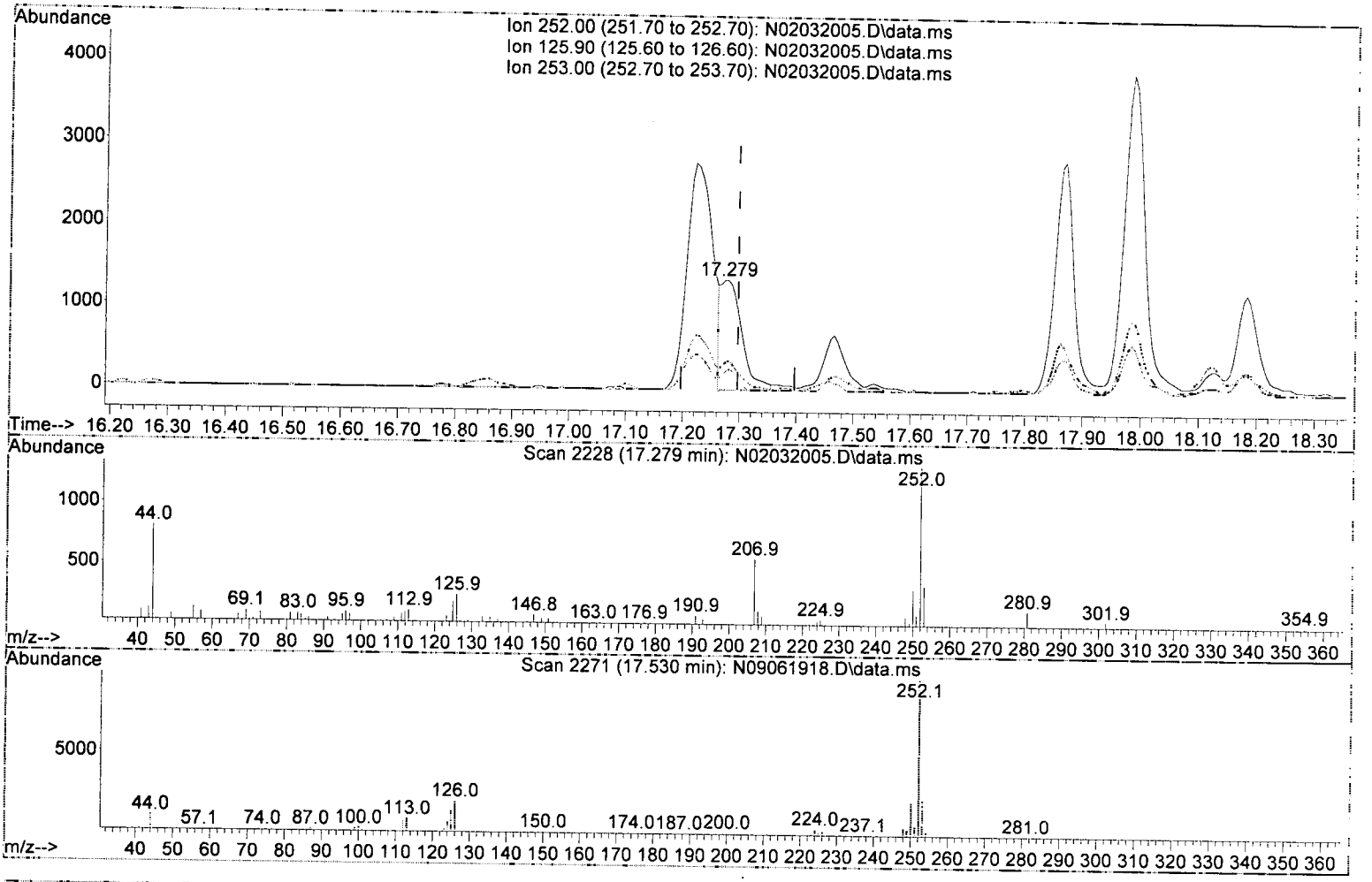
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.38
253.00	21.10	23.79
0.00	0.00	0.00

AMS 2/4/20

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.017) 2.00 ng/ml m

response 3414

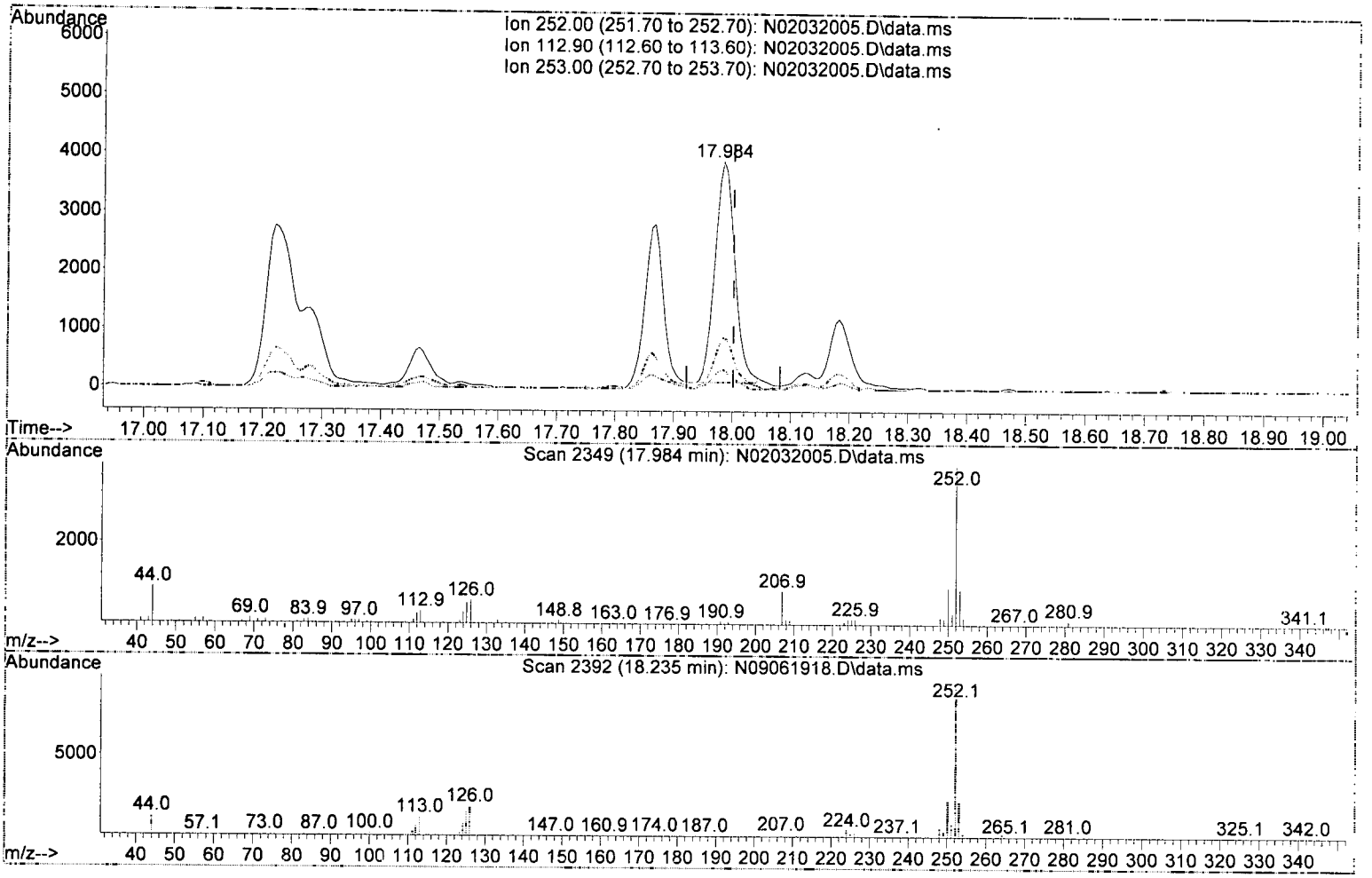
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	18.52
253.00	21.50	26.21
0.00	0.00	0.00

AMS 2/4/20

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.017) 6.10 ng/ml

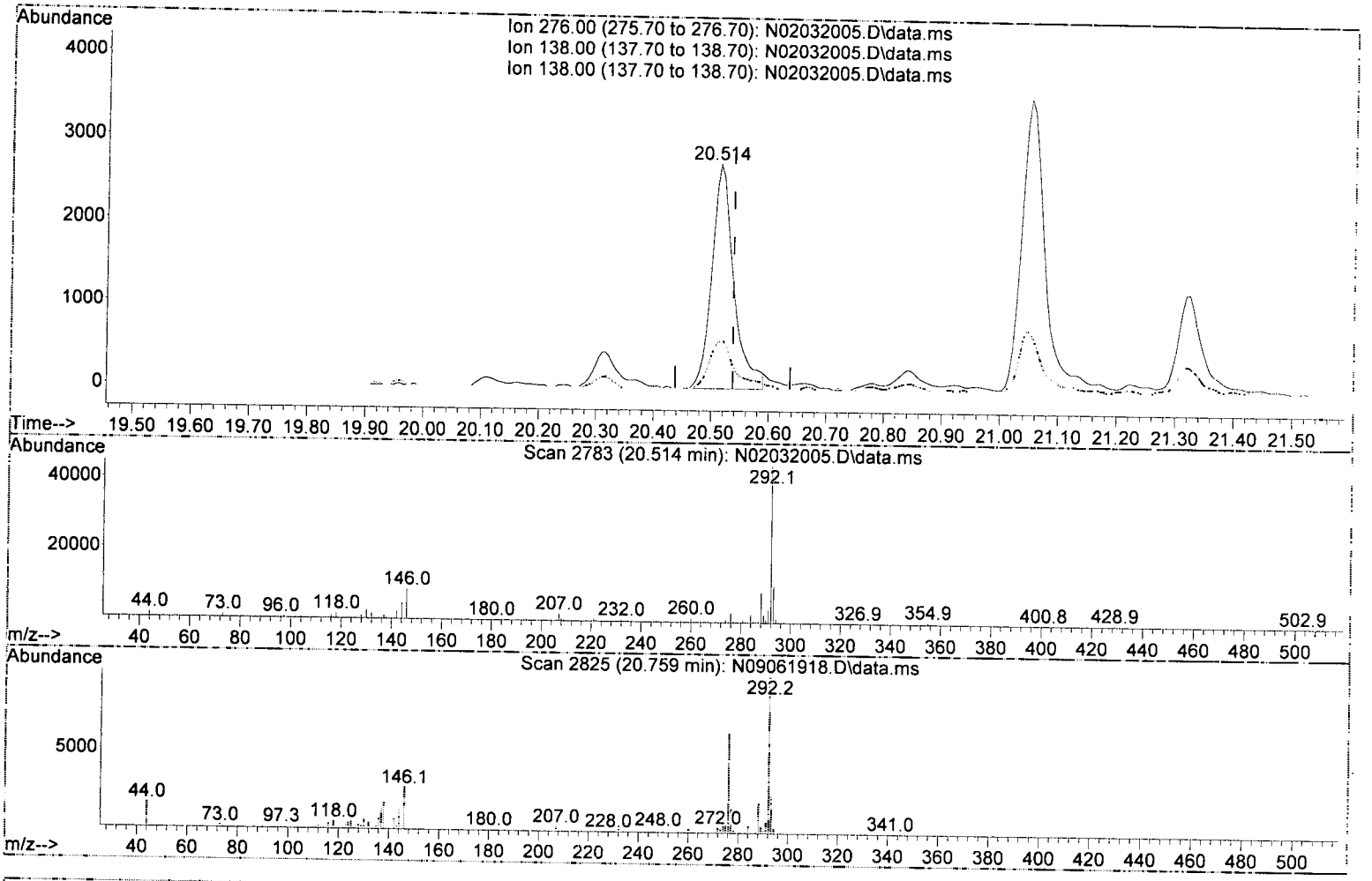
response 9042

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.30
253.00	21.90	22.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032005.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 4.87 ng/ml

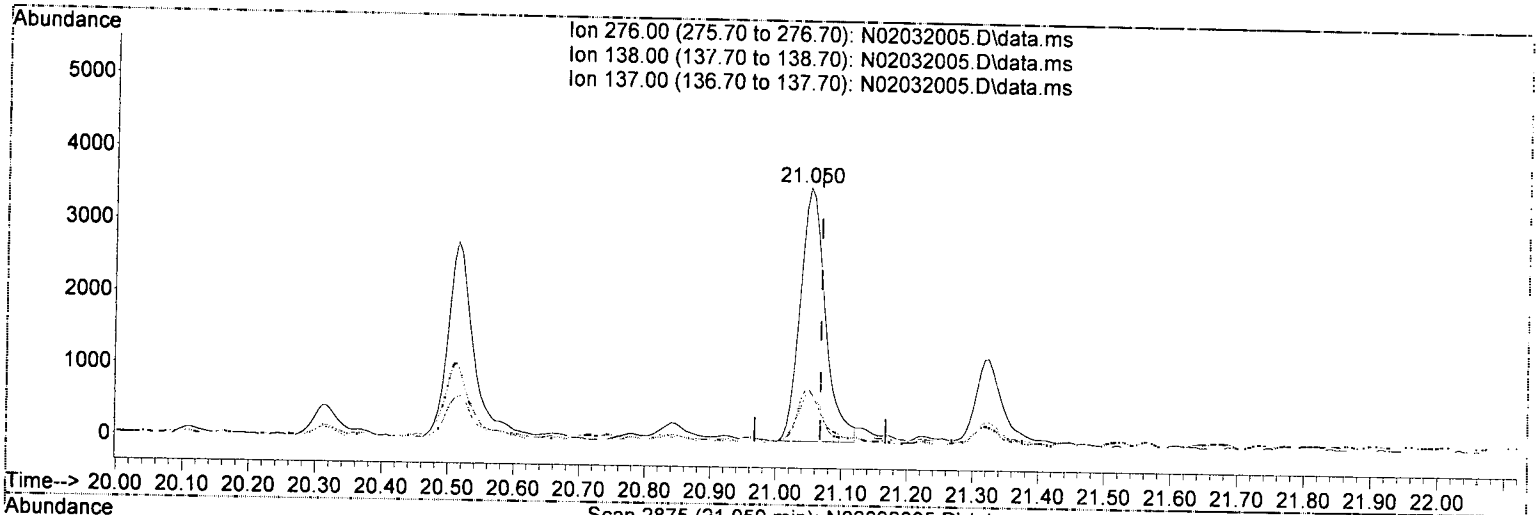
response 7225

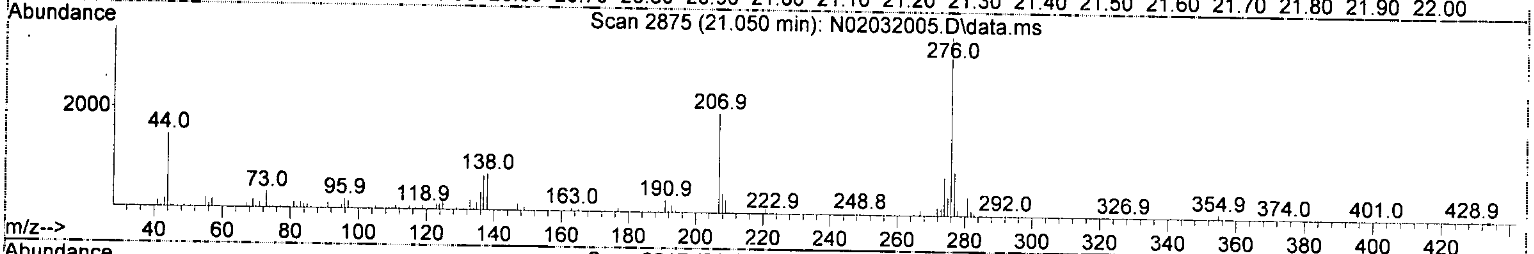
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	21.28
138.00	31.60	21.28
0.00	0.00	0.00

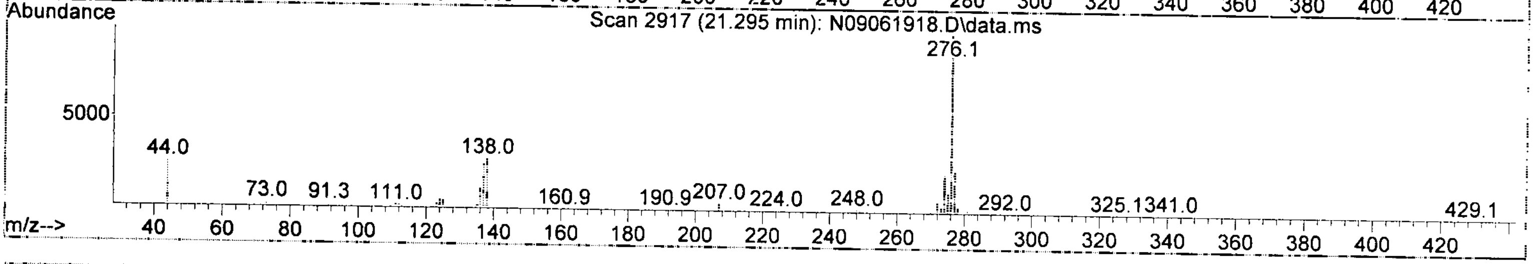
Quantitation Report (Qedit)

```
Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On    : 03 Feb 2020  10:36
Operator  : JK/ AMS/ DTH
Sample    : A0A1011-01@1000
Misc      : 1000x, 8270D LL PAH ONLY
ALS Vial  : 5   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName   : SV-GCMS14
```







TIC: N02032005.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.017) 6.02 ng/ml

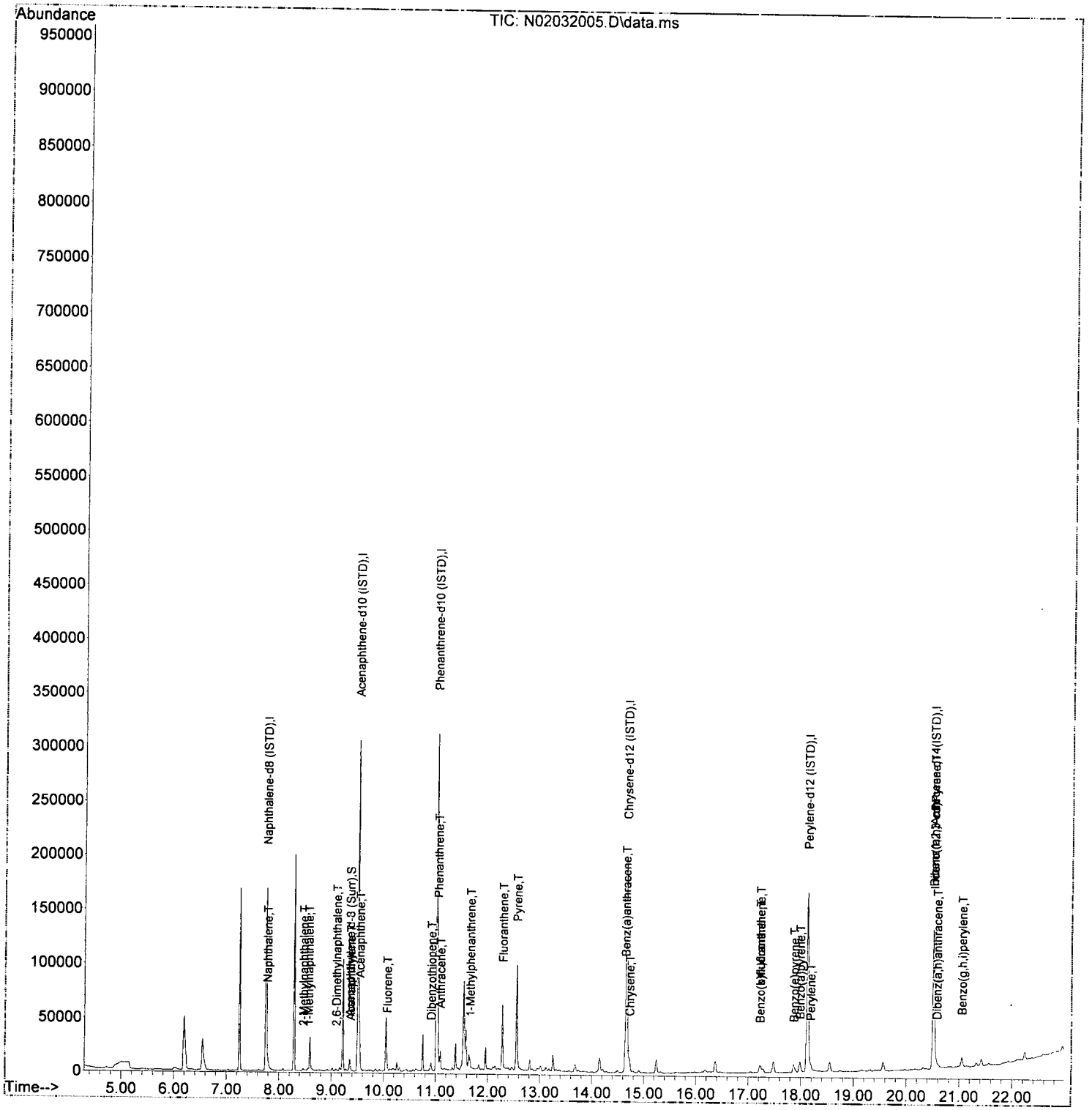
response 9478

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	20.64
137.00	18.60	19.77
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032005.D
Acq On : 03 Feb 2020 10:36
Operator : JK/ AMS/ DTH
Sample : A0A1011-01@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:19 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS MOS 2/4/20

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

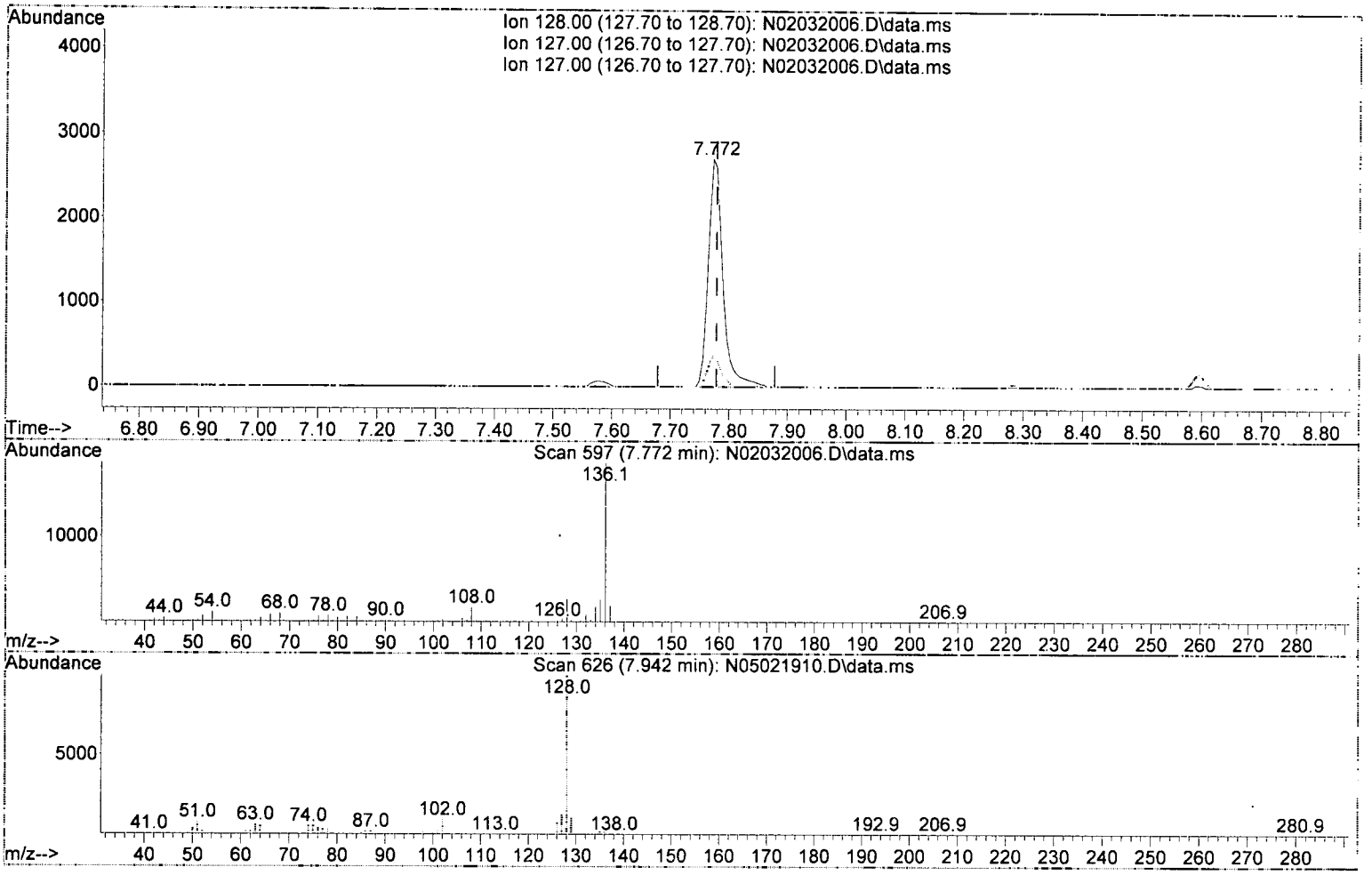
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	138317	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	93181	100.00 ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	172438	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	156039	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	155652	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	125731	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	8.827	172	89	0.06 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	7179	2.40 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	206	0.13 ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.772	128	4665	3.06 ng/ml	97
5) 2-Methylnaphthalene	8.466	142	631	0.49 ng/ml	97
6) 1-Methylnaphthalene	8.559	142	556	0.43 ng/ml	94
7) 1,1'-Biphenyl	8.926	154	578	N.D.	
8) 2,6-Dimethylnaphthalene	9.095	156	479	N.D.	
12) Acenaphthylene	9.364	152	2777	1.37 ng/ml	97
13) Acenaphthene	9.538	153	9318	7.03 ng/ml	98
14) Dibenzofuran	9.719	168	385	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.923	170	196	N.D.	
16) Fluorene	10.063	166	4732	3.49 ng/ml	98
18) Dibenzothiopene	10.908	184	4526	2.51 ng/ml	99
19) Phenanthrene	11.036	178	73024	36.19 ng/ml	99
20) Anthracene	11.089	178	15717	8.37 ng/ml	98
21) Carbazole	11.264	167	130	N.D.	
22) 1-Methylphenanthrene	11.643	192	4617	3.29 ng/ml#	48
23) Fluoranthene	12.284	202	86377	42.49 ng/ml	96
25) Pyrene	12.558	202	111261	45.64 ng/ml	99
27) Benz(a)anthracene	14.644	228	20530	11.33 ng/ml#	20
28) Chrysene	14.720	228	26032	15.18 ng/ml	97
30) Benzo(b)fluoranthene	17.226	252	29399	16.37 ng/ml	92
31) Benzo(k)fluoranthene	~~17.226~~	~~252~~	~~37113~~	~~20.99 ng/ml~~	~~89~~ MI-MOS
32) Benzo(b+k)fluoranthene	17.226	252	41397	22.53 ng/ml	89
34) Benzo(e)pyrene	17.862	252	20440	11.25 ng/ml	98
35) Benzo(a)pyrene	17.984	252	29991	19.51 ng/ml	97
36) Perylene	18.182	252	10201	5.39 ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	24869	16.04 ng/ml	80
39) Dibenz(a,h)anthracene	20.572	278	1942	1.33 ng/ml	77
40) Benzo(g,h,i)perylene	21.050	276	32263	19.61 ng/ml	99

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 3.06 ng/ml

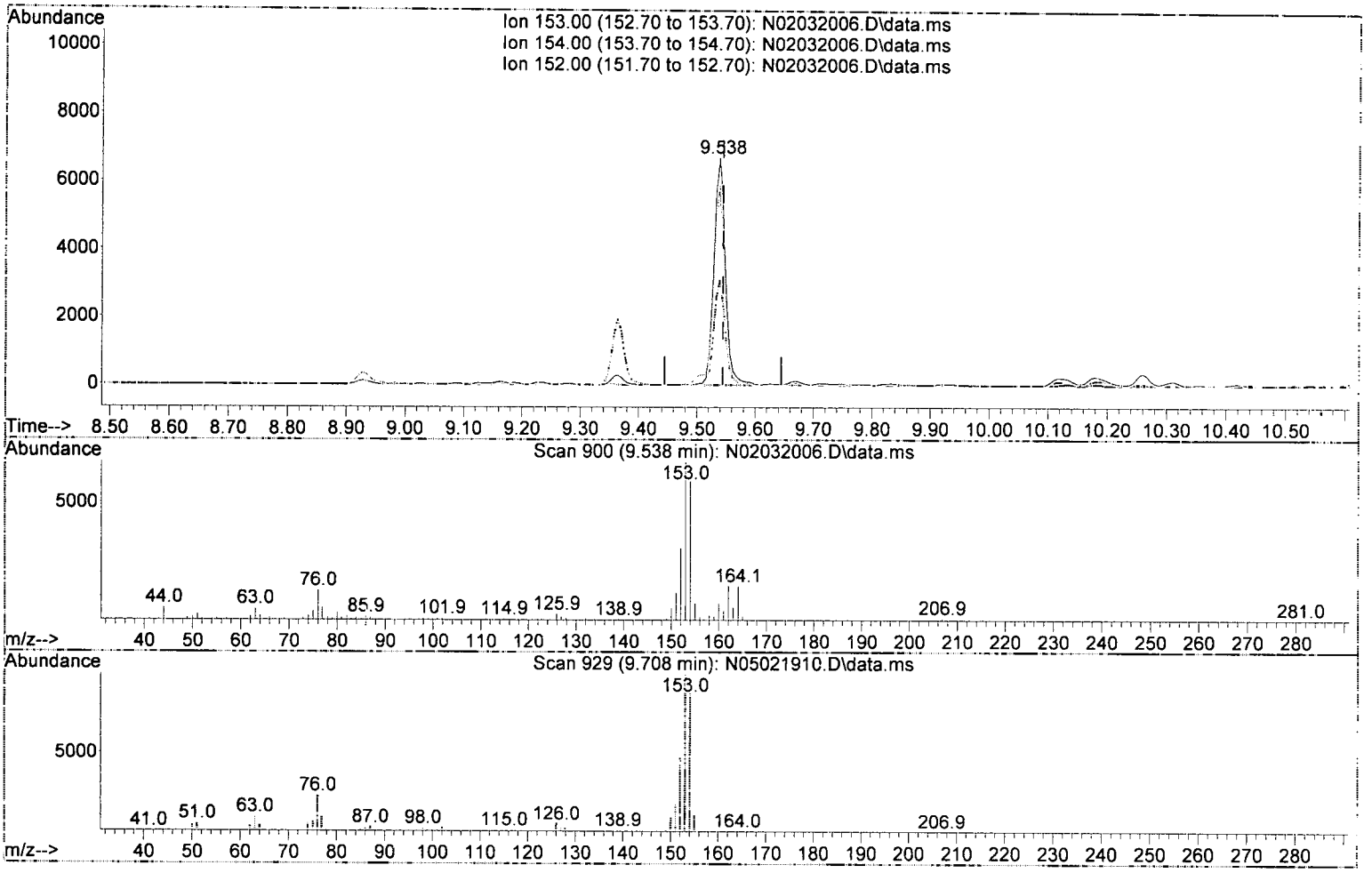
response 4665

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.68
127.00	12.60	13.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019.
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 7.03 ng/ml

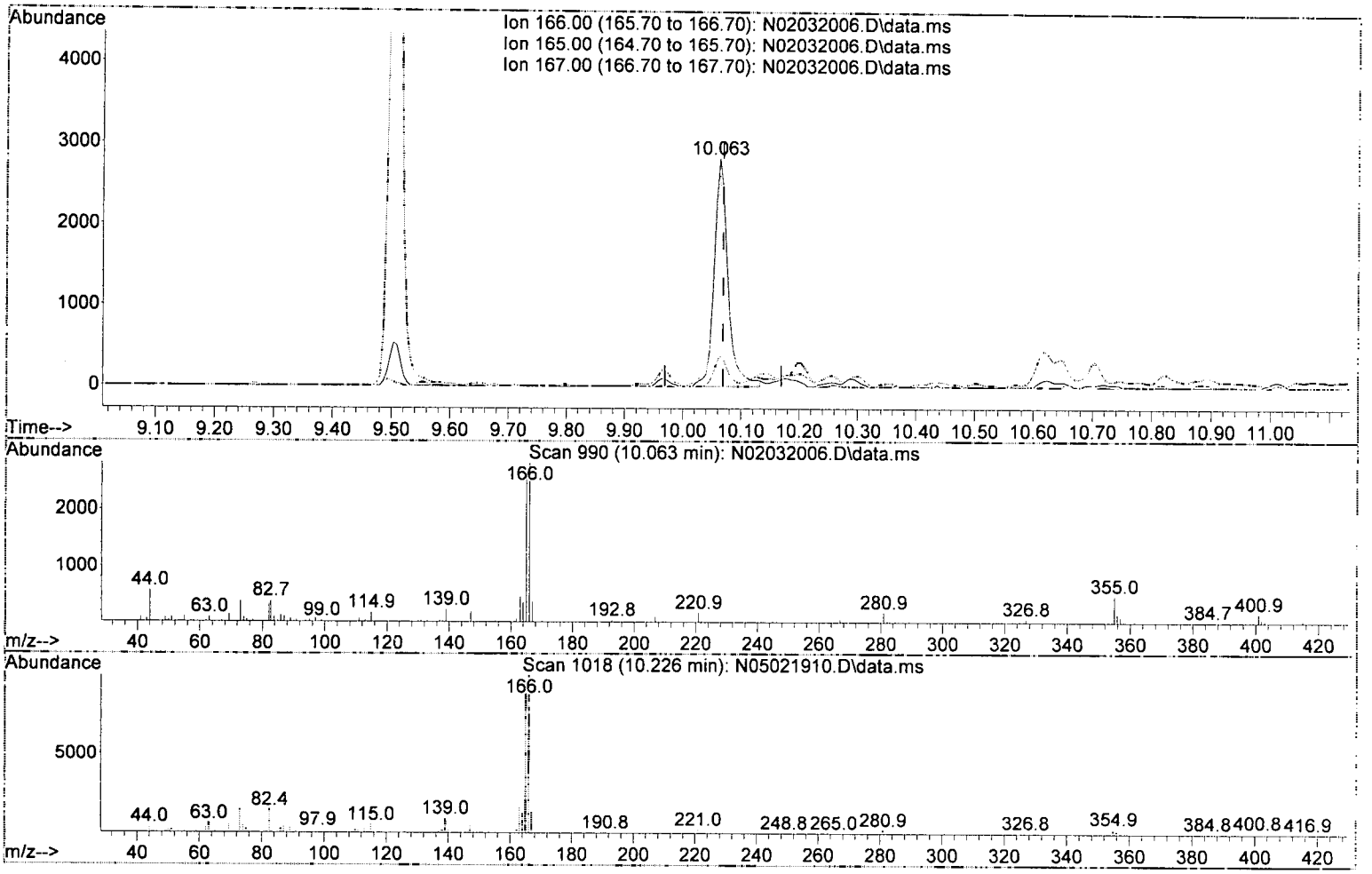
response 9318

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	87.89
152.00	46.80	45.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 3.49 ng/ml

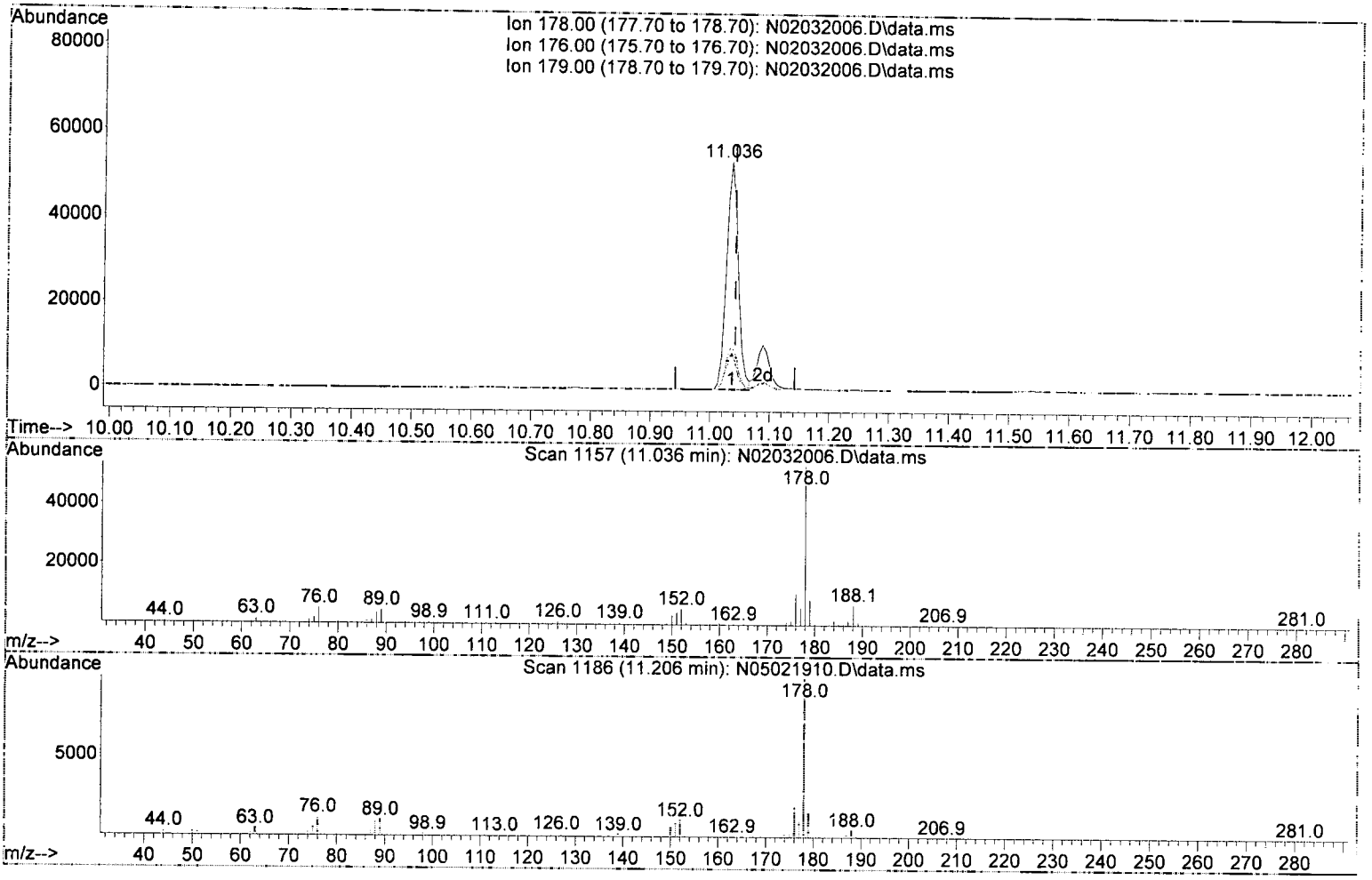
response 4732

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	93.23
167.00	13.60	13.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 36.19 ng/ml

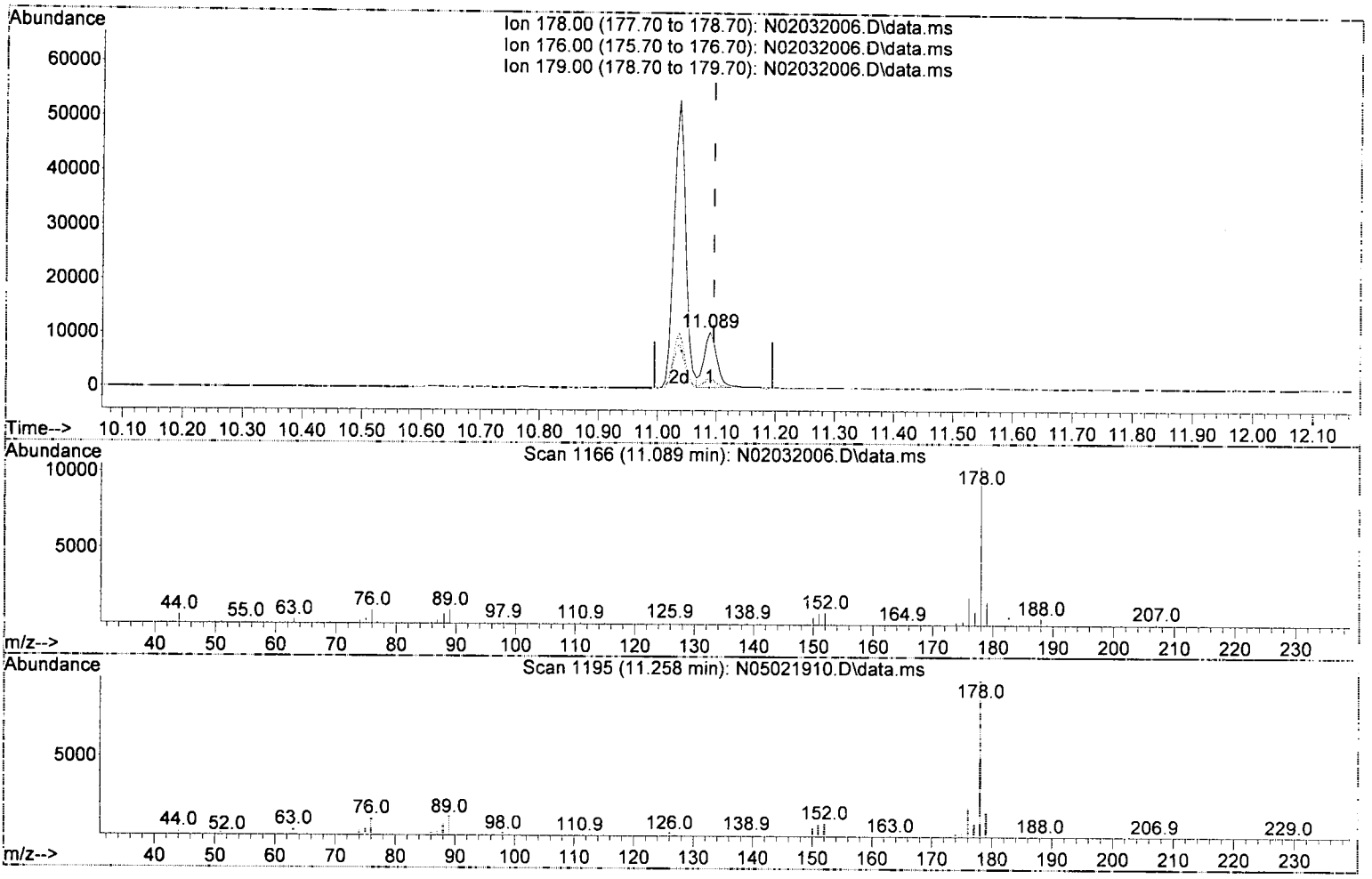
response 73024

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.31
179.00	15.10	15.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 8.37 ng/ml

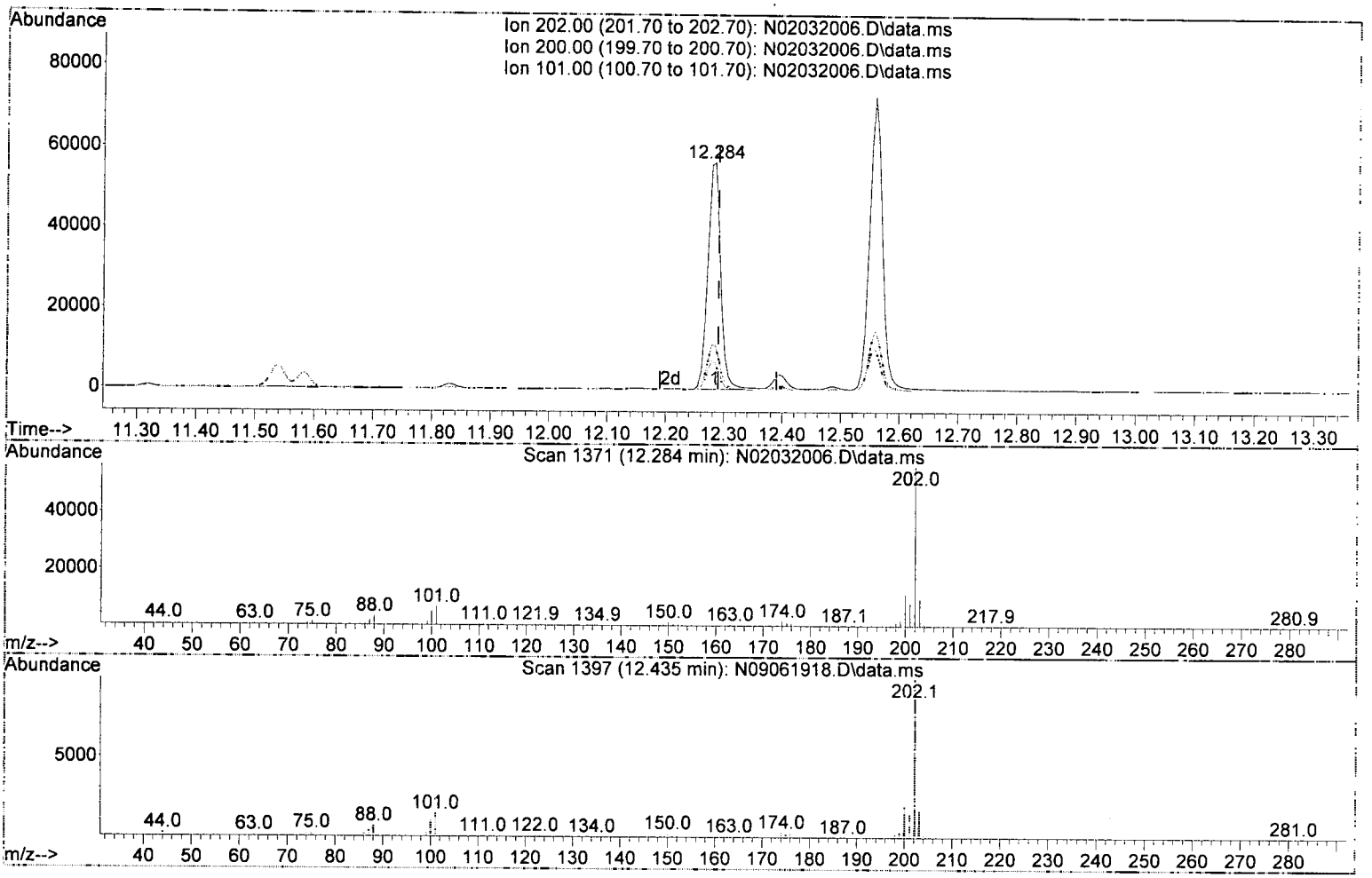
response 15717

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.58
179.00	15.30	14.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 42.49 ng/ml

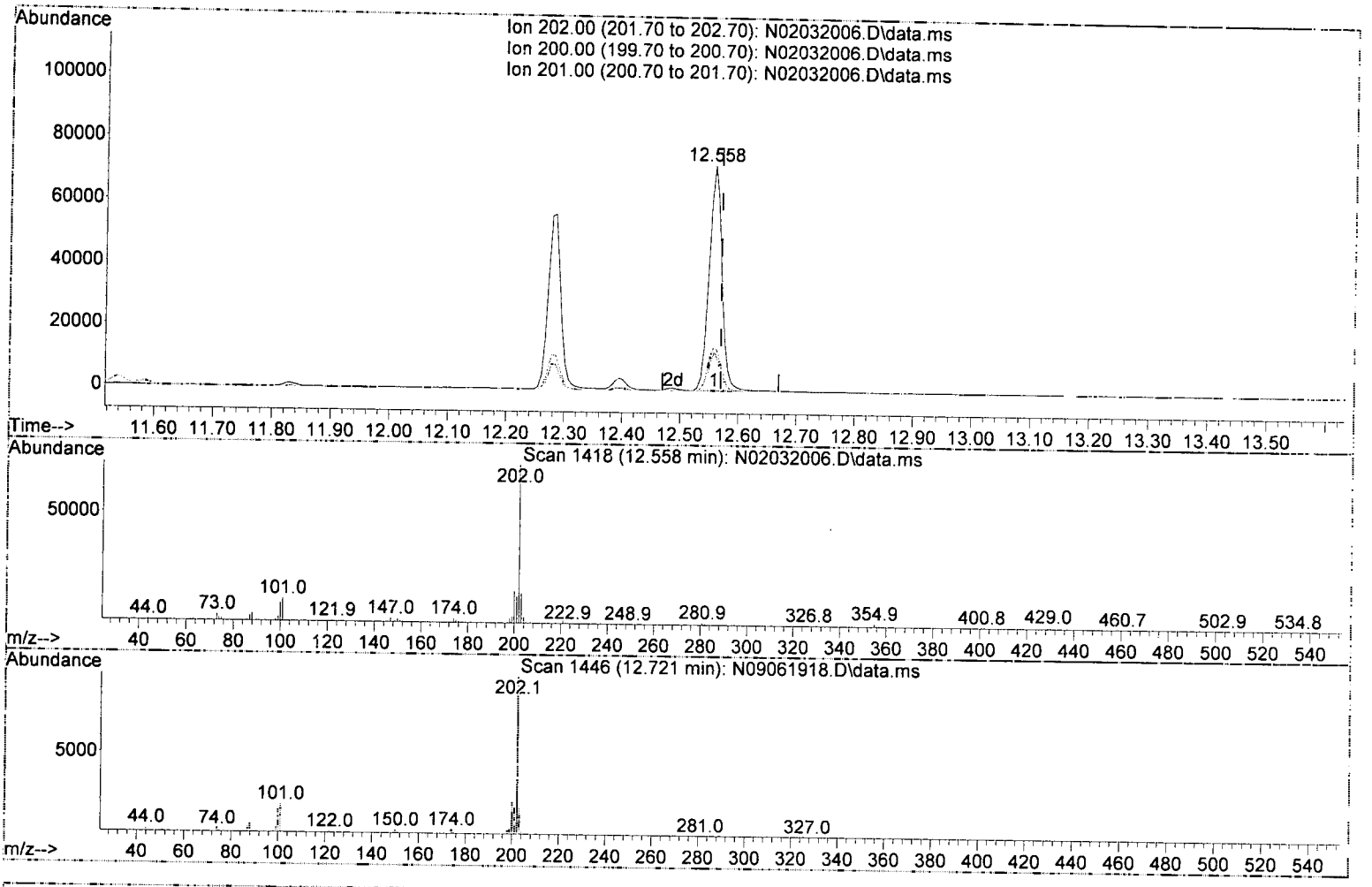
response 86377

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.82
101.00	15.30	11.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 45.64 ng/ml

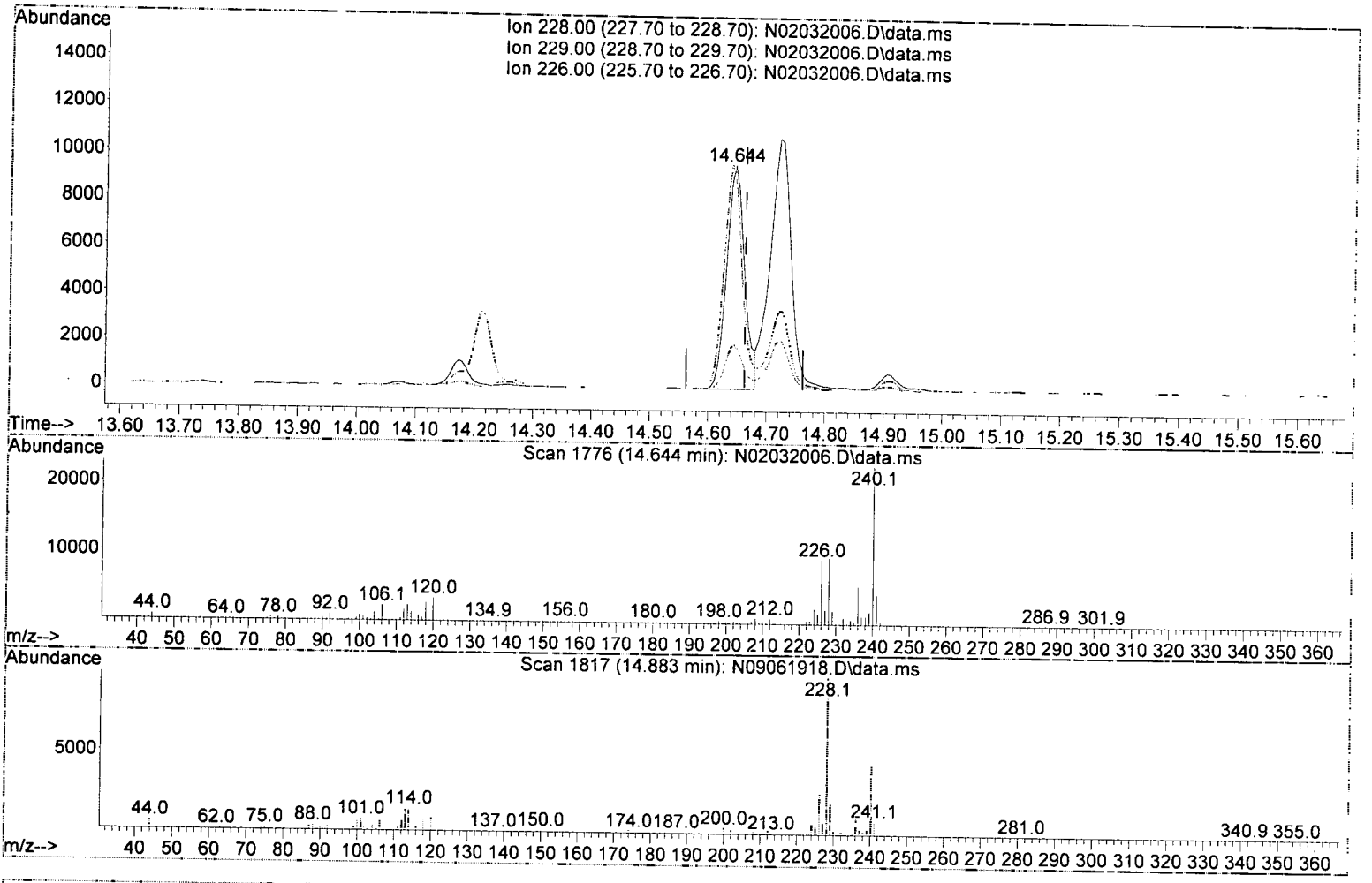
response 111261

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.28
201.00	16.80	16.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 11.33 ng/ml

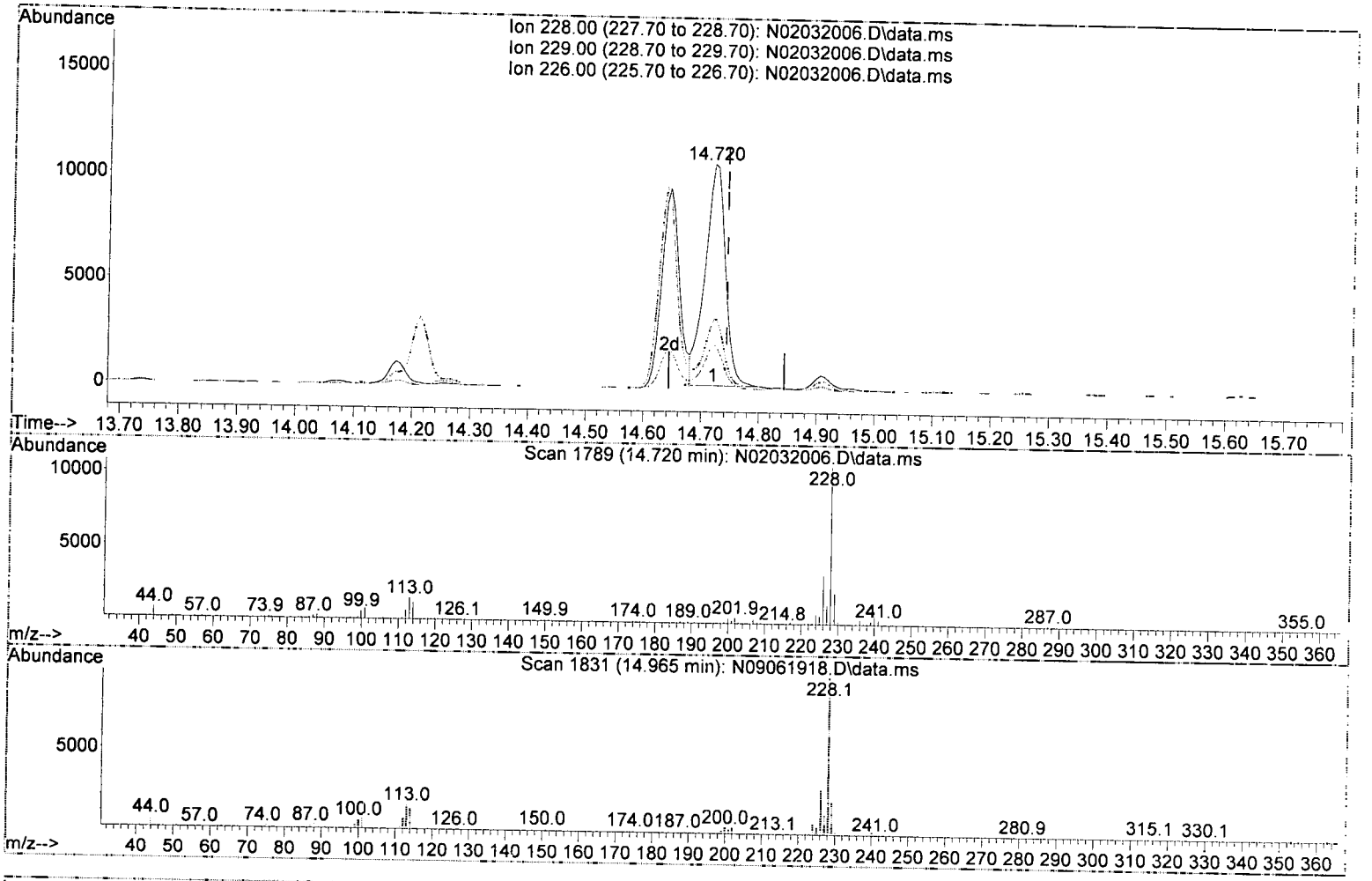
response 20530

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	19.84
226.00	26.20	96.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



T!C: N02032006.D\data.ms

(28) Chrysene (T)

14.720min (-0.023) 15.18 ng/ml

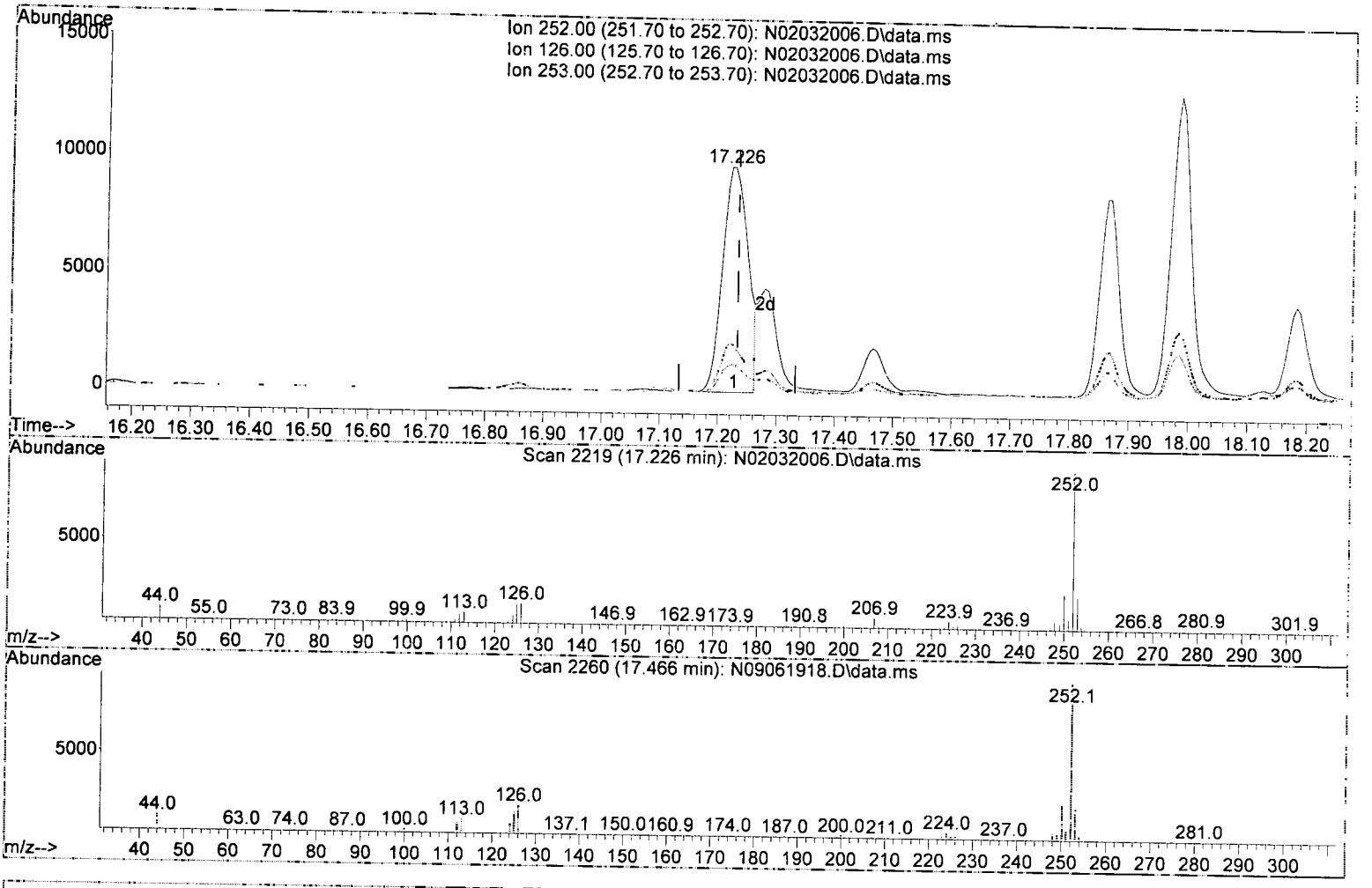
response 26032

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.11
226.00	28.60	31.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.226min (-0.006) 16.37 ng/ml

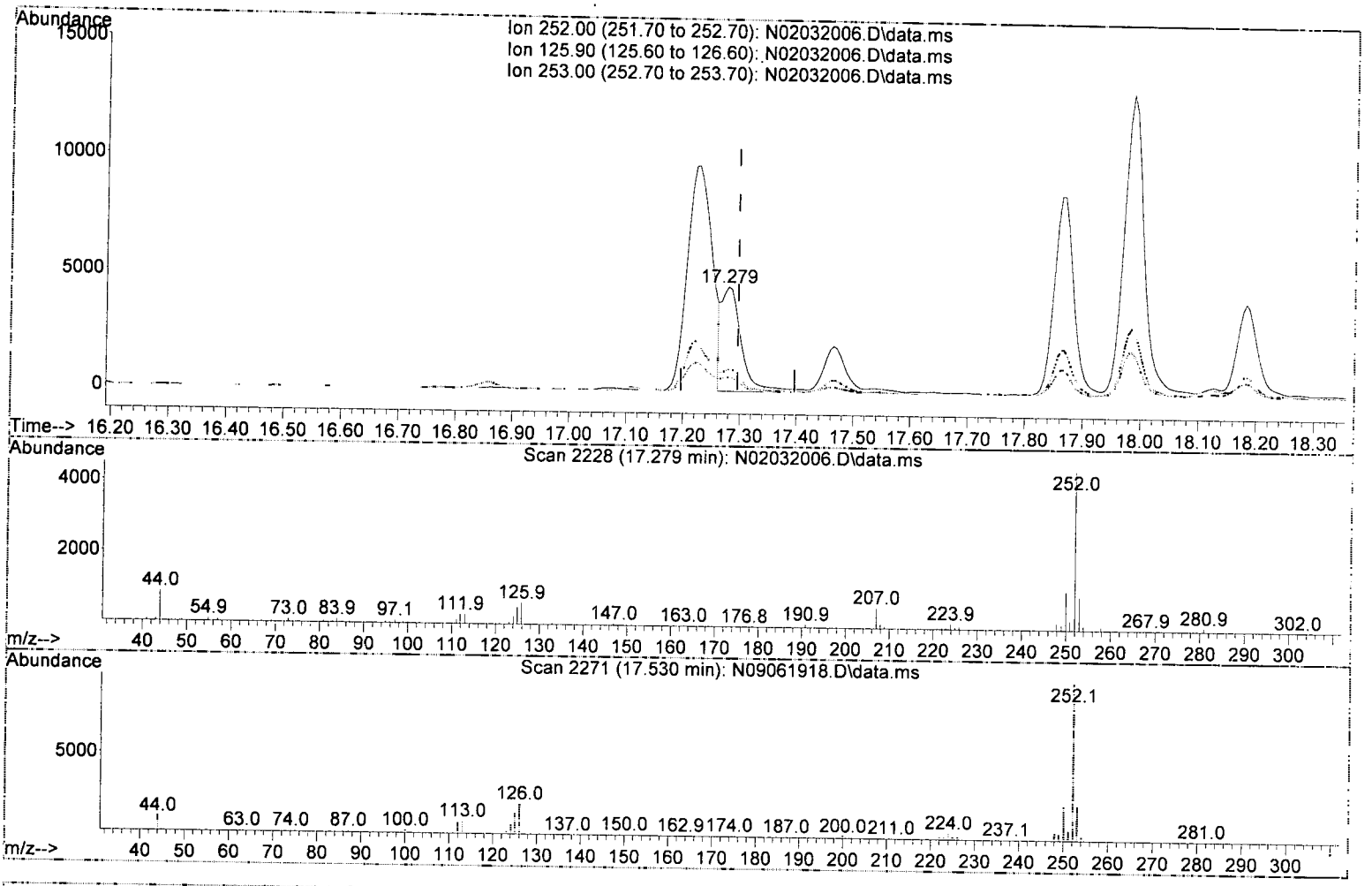
response 29399

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	12.51
253.00	21.10	20.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 5.88 ng/ml m

response 10404

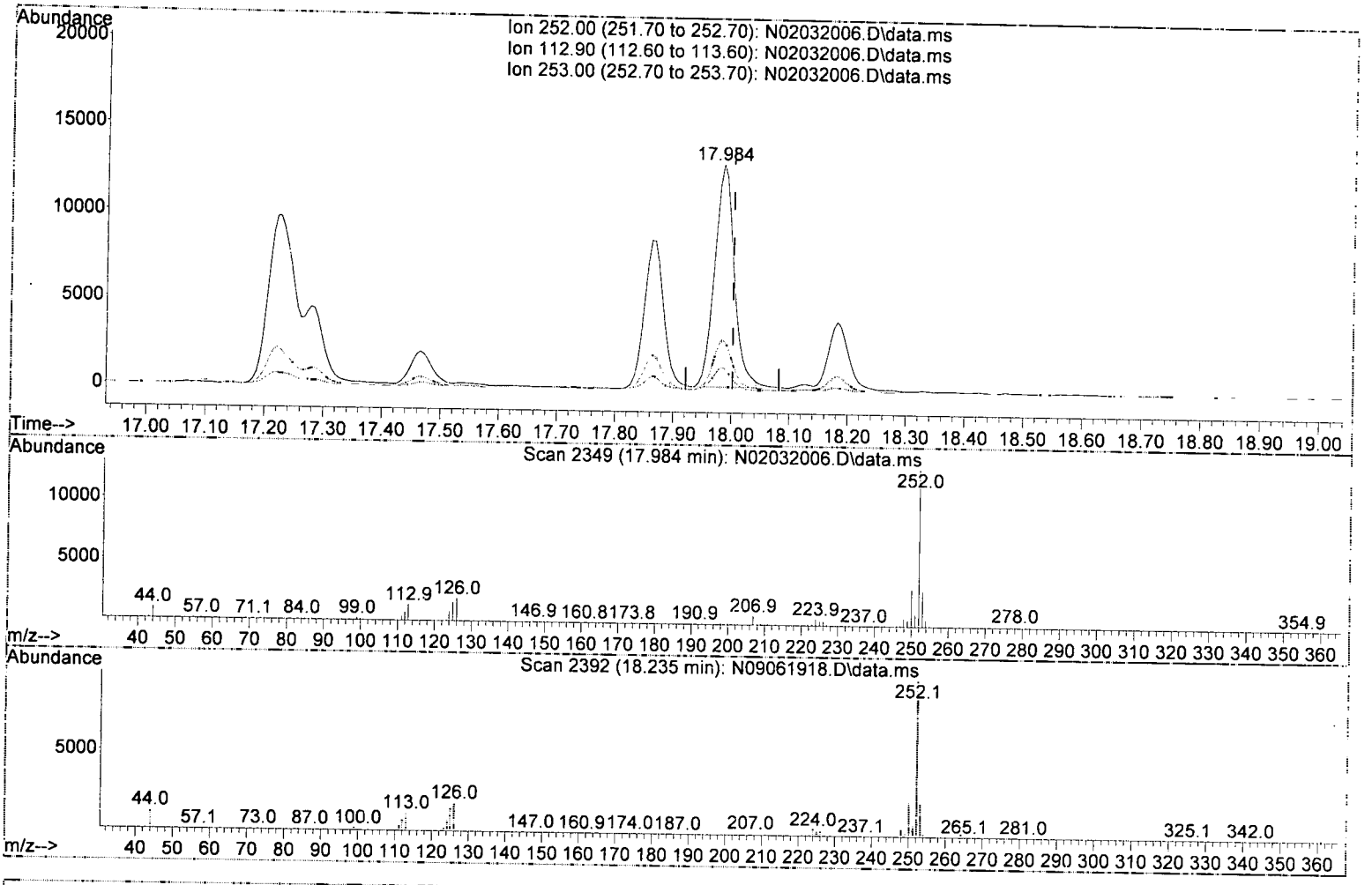
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.51
253.00	21.50	21.07
0.00	0.00	0.00

AMS 2/4/20 MOS ✓

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 19.51 ng/ml

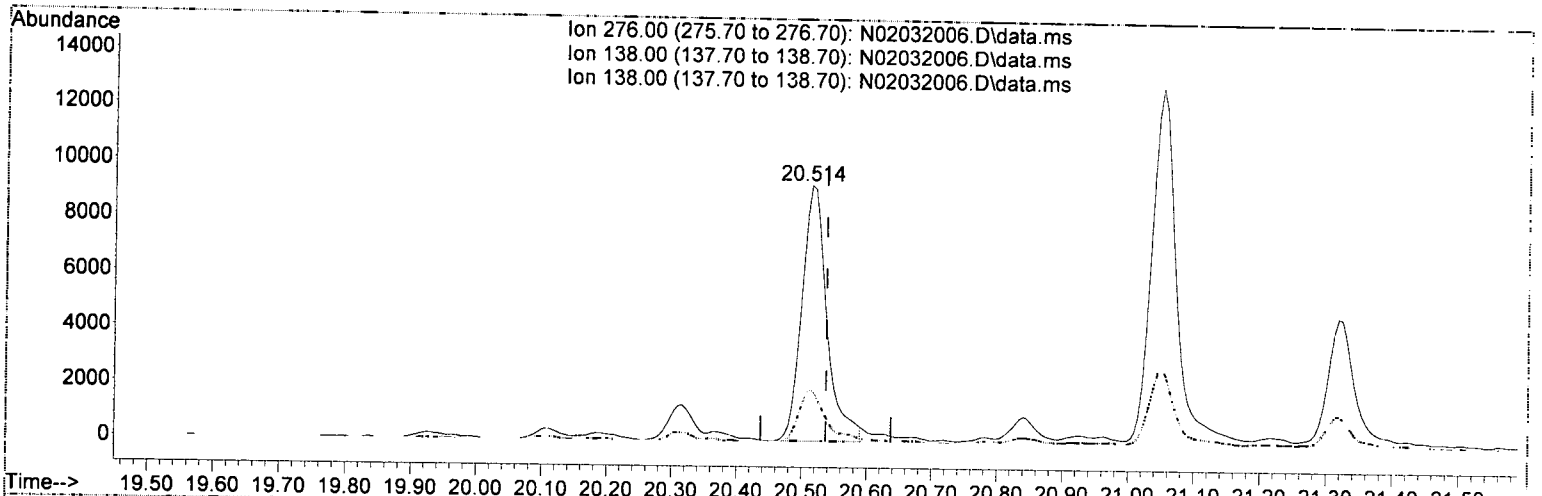
response 29991

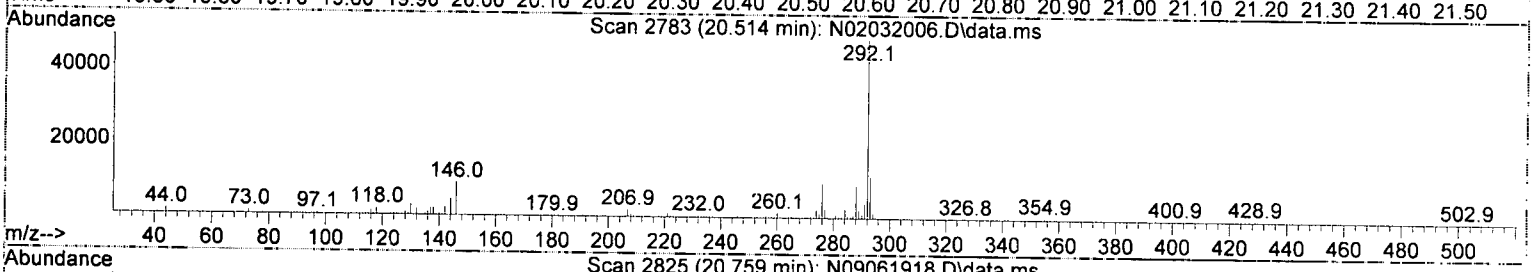
Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.25
253.00	21.90	22.42
0.00	0.00	0.00

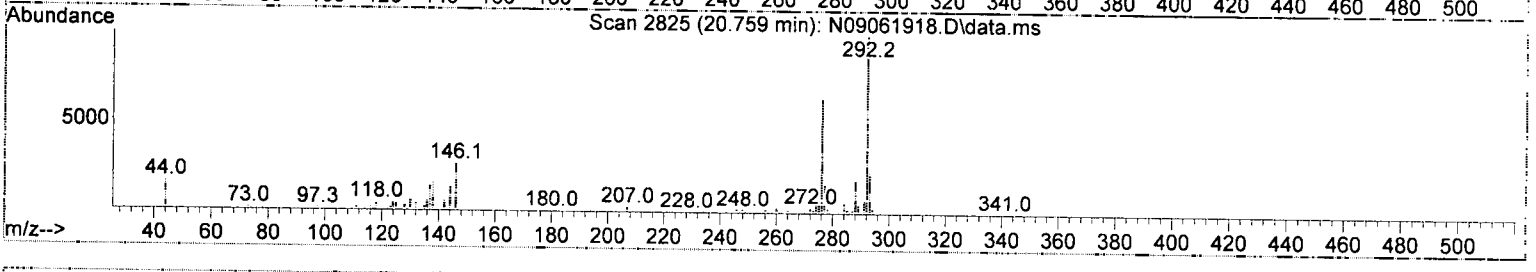
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02032006.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 16.04 ng/ml

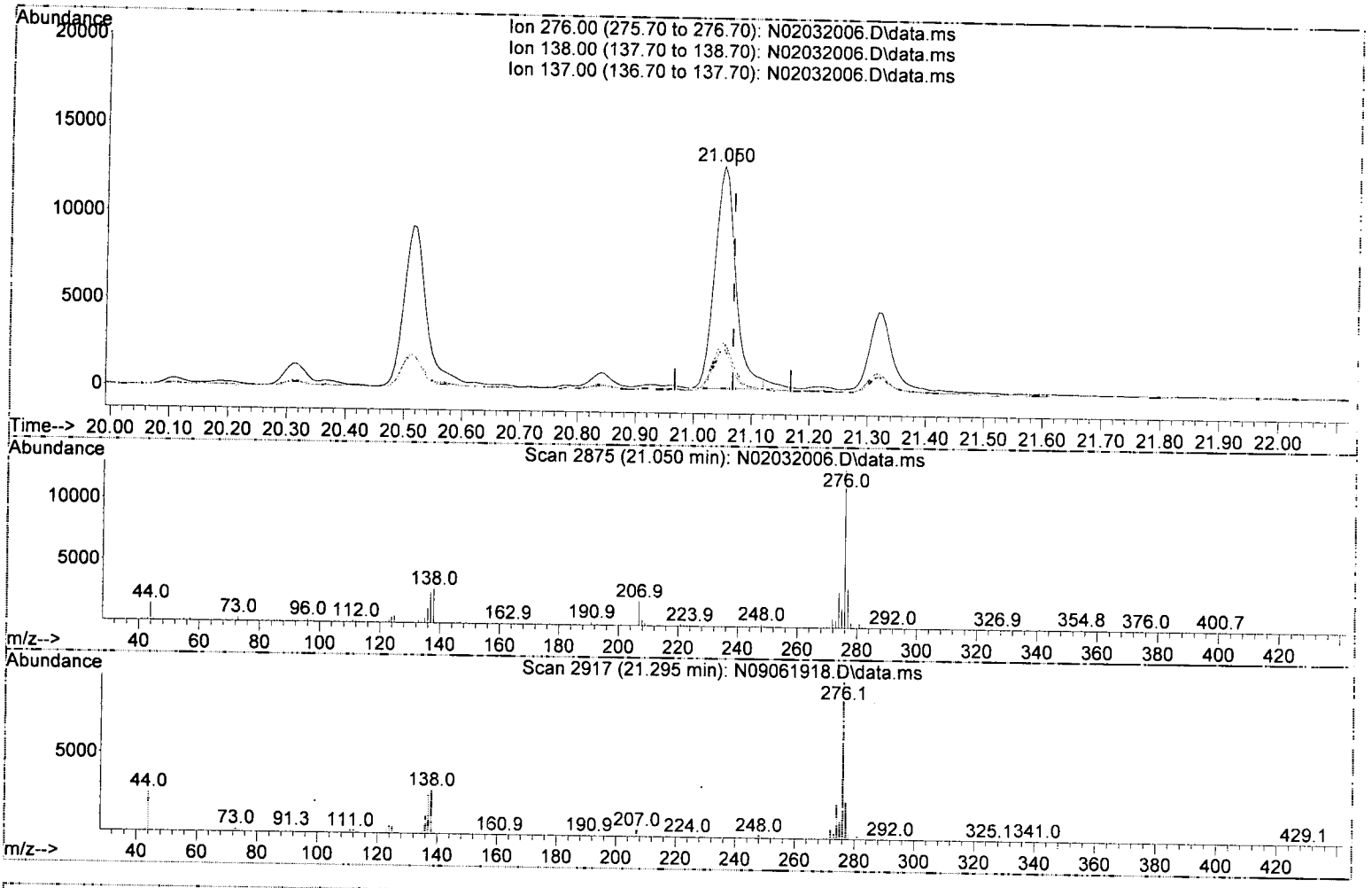
response 24869

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.37
138.00	31.60	20.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032006.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 19.61 ng/ml

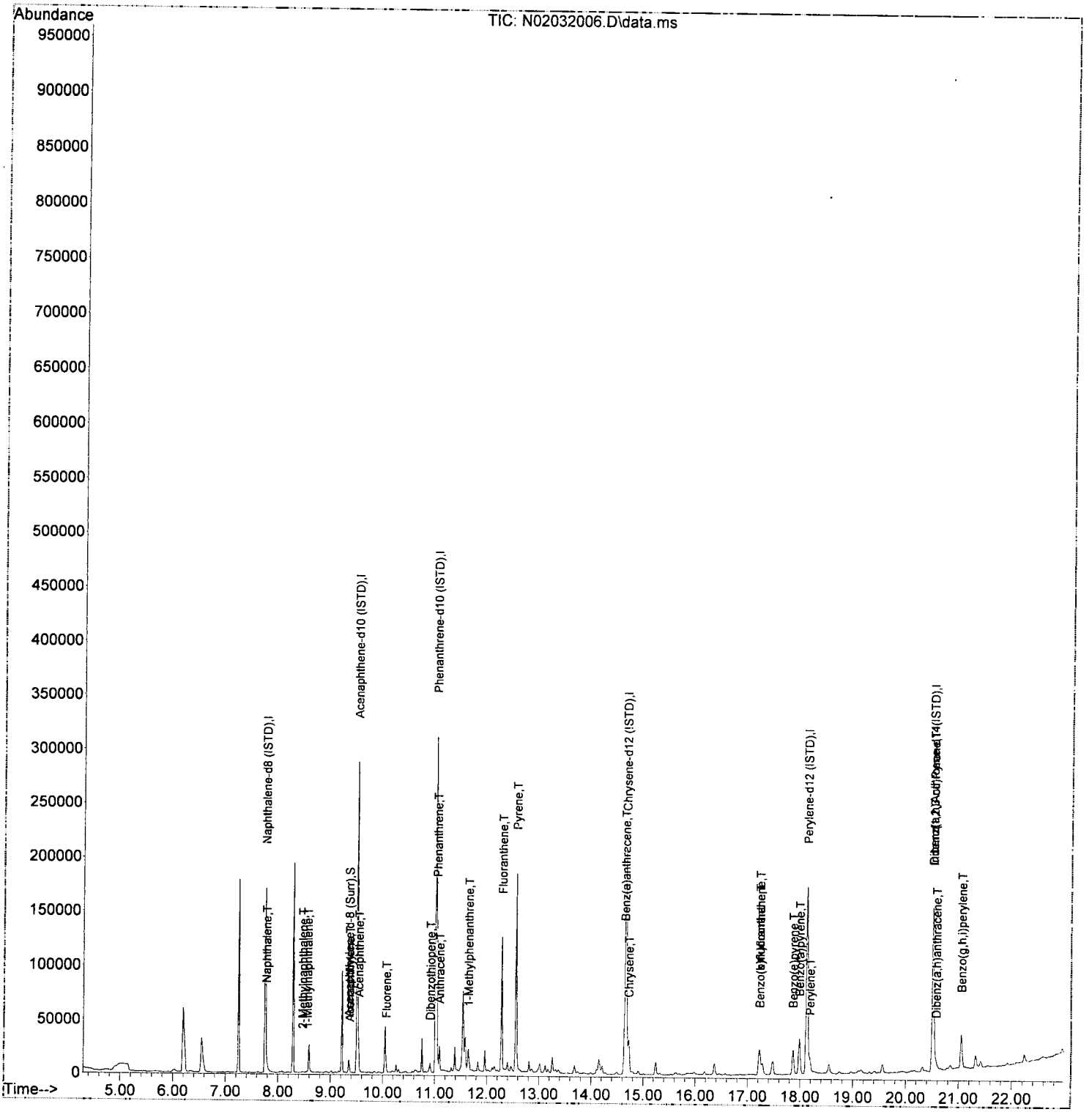
response 32263

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	21.75
137.00	18.60	19.19
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032006.D
Acq On : 03 Feb 2020 11:08
Operator : JK/ AMS/ DTH
Sample : A0A1011-02@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:22 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS MOS 2/4/20

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	142637	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	93741	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	164686	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	134661	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	136750	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	104838	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	403	0.85	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	1087	0.78	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	7788	2.70	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	1126	0.80	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.248	138	50	0.47	ng/ml#	7
4) Naphthalene	7.772	128	37134	23.60	ng/ml	98
5) 2-Methylnaphthalene	8.460	142	8949	6.71	ng/ml	93
6) 1-Methylnaphthalene	8.559	142	5749	4.31	ng/ml	94
7) 1,1'-Biphenyl	8.926	154	4691	2.62	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.090	156	2644	2.02	ng/ml	98
12) Acenaphthylene	9.364	152	10123	4.97	ng/ml	98
13) Acenaphthene	9.538	153	26298	19.73	ng/ml	98
14) Dibenzofuran	9.713	168	1450	0.87	ng/ml	86
15) 1,6,7-Trimethylnaphtha...	9.923	170	824	0.74	ng/ml	89
16) Fluorene	10.063	166	9374	6.87	ng/ml	98
18) Dibenzothiopene	10.908	184	10073	5.85	ng/ml	98
19) Phenanthrene	11.036	178	132697	68.86	ng/ml	100
20) Anthracene	11.089	178	17313	9.66	ng/ml	99
21) Carbazole	11.258	167	823	0.57	ng/ml	77
22) 1-Methylphenanthrene	11.637	192	6602	4.93	ng/ml#	44
23) Fluoranthene	12.284	202	169088	87.09	ng/ml	96
25) Pyrene	12.558	202	218329	103.78	ng/ml	100
27) Benz(a)anthracene	14.644	228	22209	14.21	ng/ml#	1
28) Chrysene	14.726	228	29149	19.70	ng/ml	96
30) Benzo(b)fluoranthene	17.221	252	38361	24.31	ng/ml	92
31) Benzo(k)fluoranthene	17.221	252	47827	30.78	ng/ml	90
32) Benzo(b+k)fluoranthene	17.221	252	53738	33.29	ng/ml	90
34) Benzo(e)pyrene	17.867	252	29240	18.33	ng/ml	97
35) Benzo(a)pyrene	17.984	252	39834	29.49	ng/ml	95
36) Perylene	18.182	252	15227	9.15	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	33485	25.90	ng/ml	78
39) Dibenz(a,h)anthracene	20.572	278	1996	1.64	ng/ml	77
40) Benzo(g,h,i)perylene	21.050	276	50088	36.52	ng/ml	99

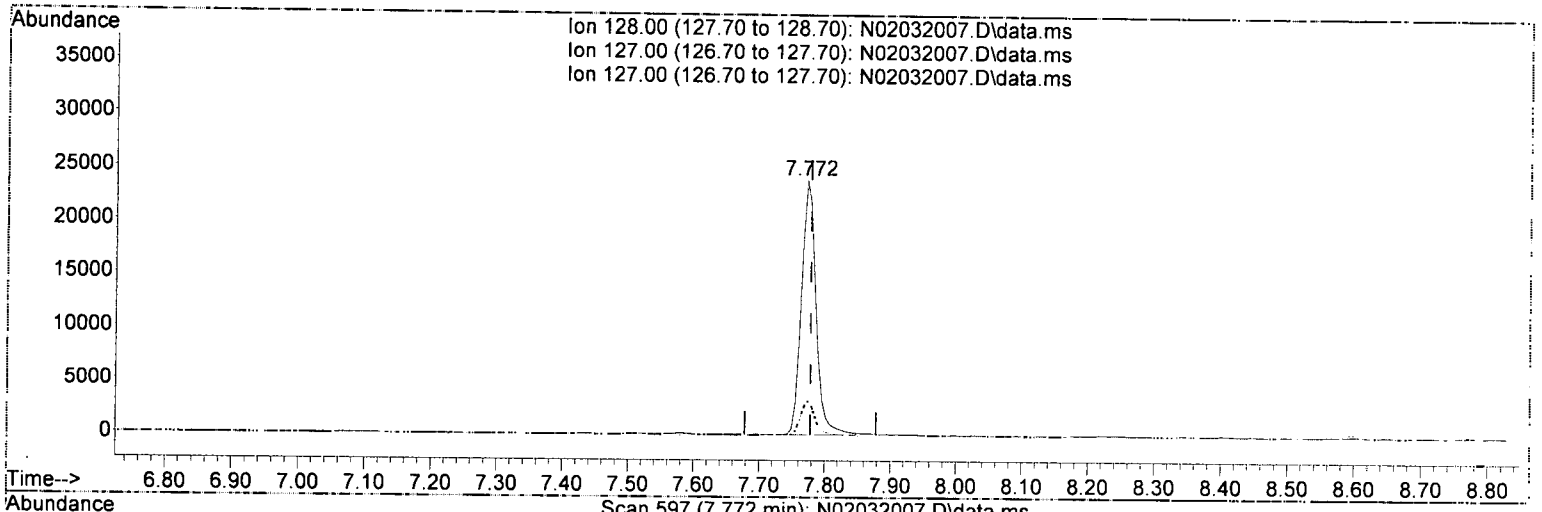
MI-HOJ

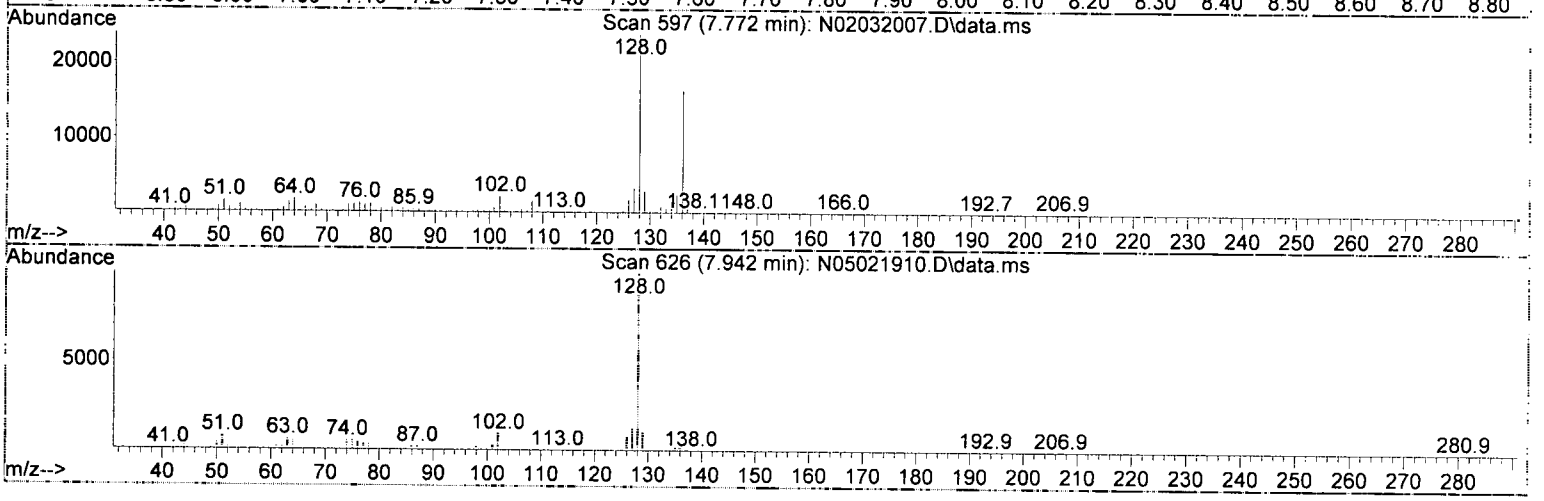
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02032007.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 23.60 ng/ml

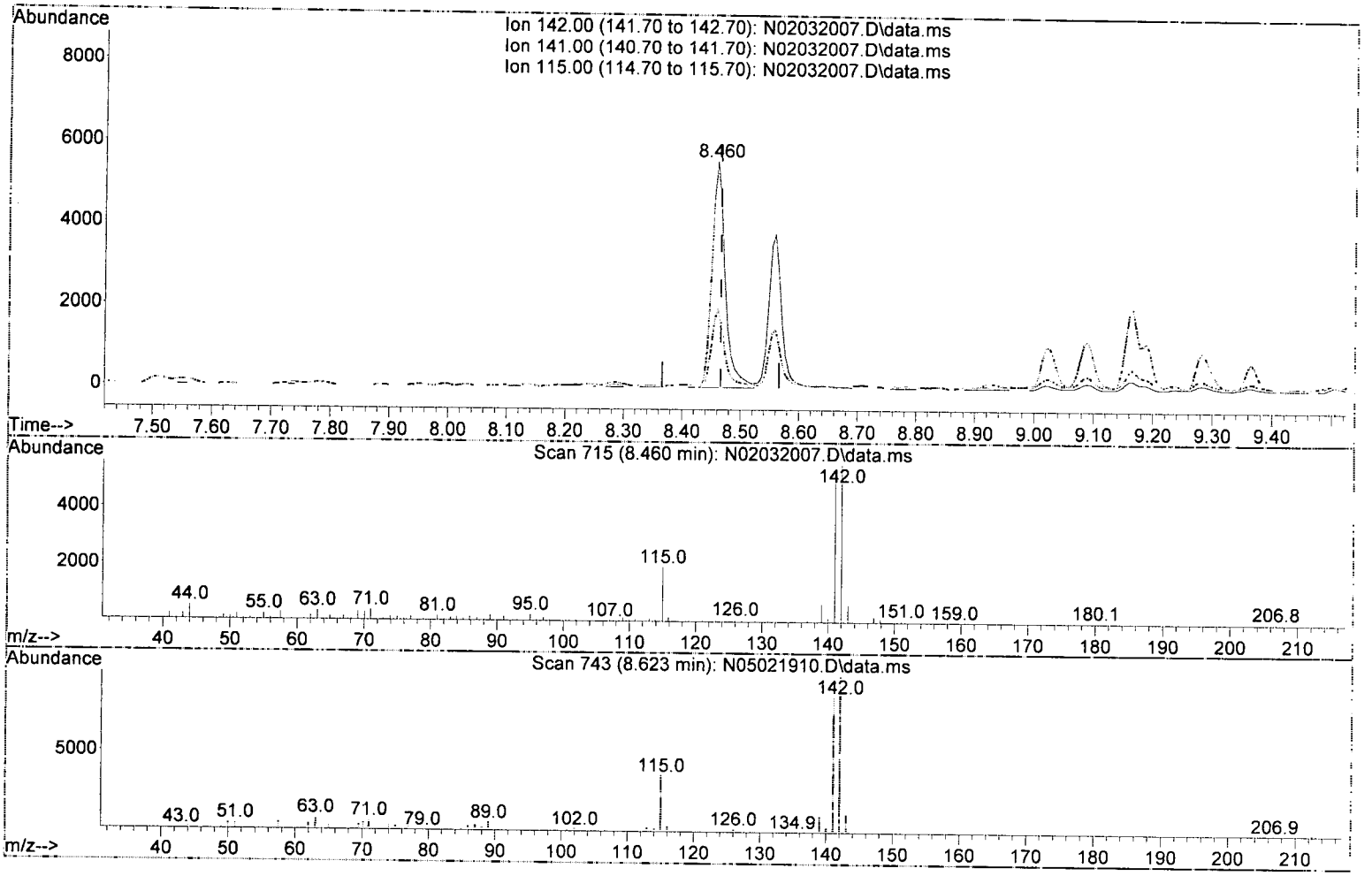
response 37134

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.51
127.00	12.60	13.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(5) 2-Methylnaphthalene (T)

8.460min (-0.006) 6.71 ng/ml

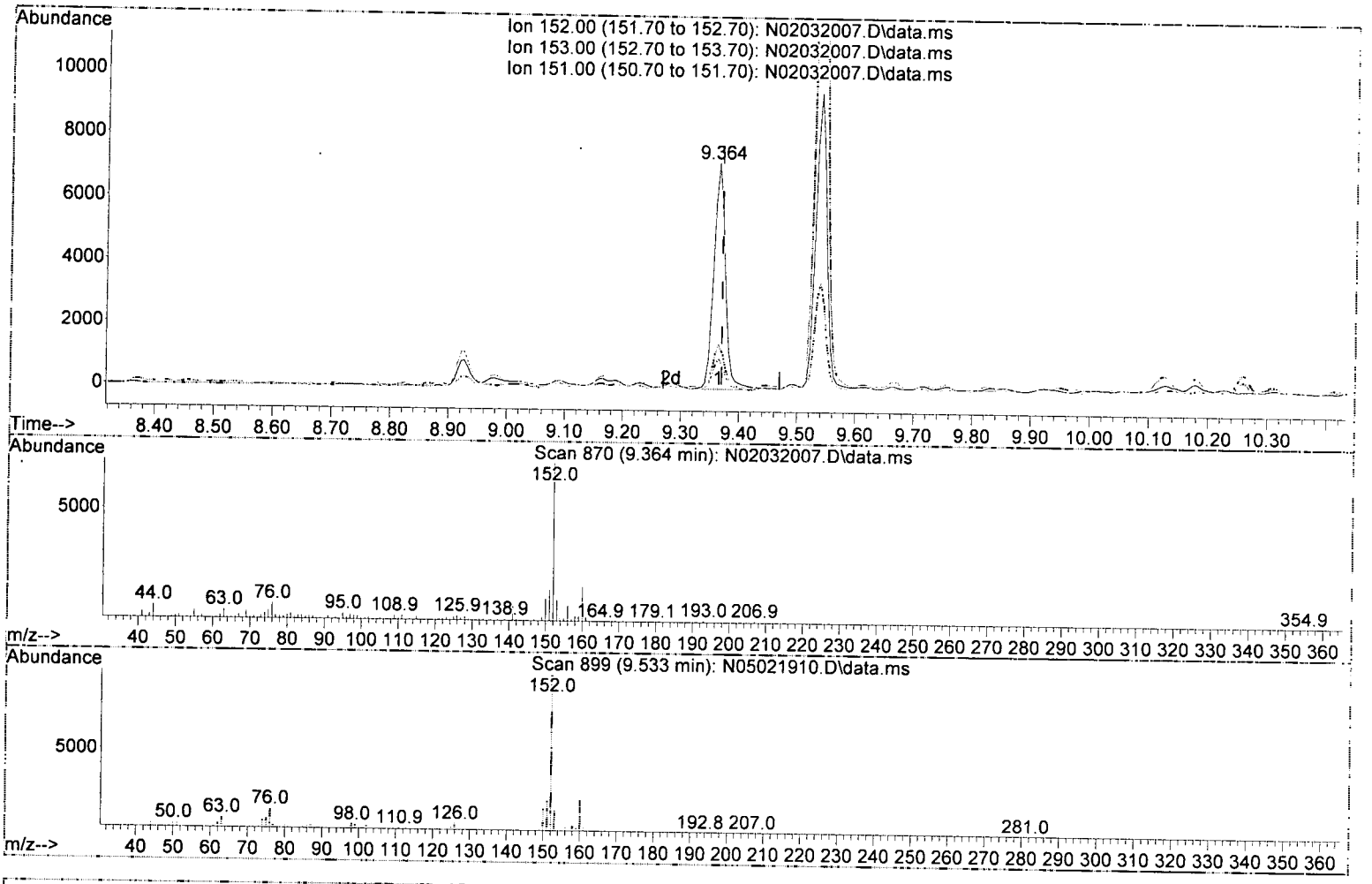
response 8949

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	95.35
115.00	35.70	34.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 4.97 ng/ml

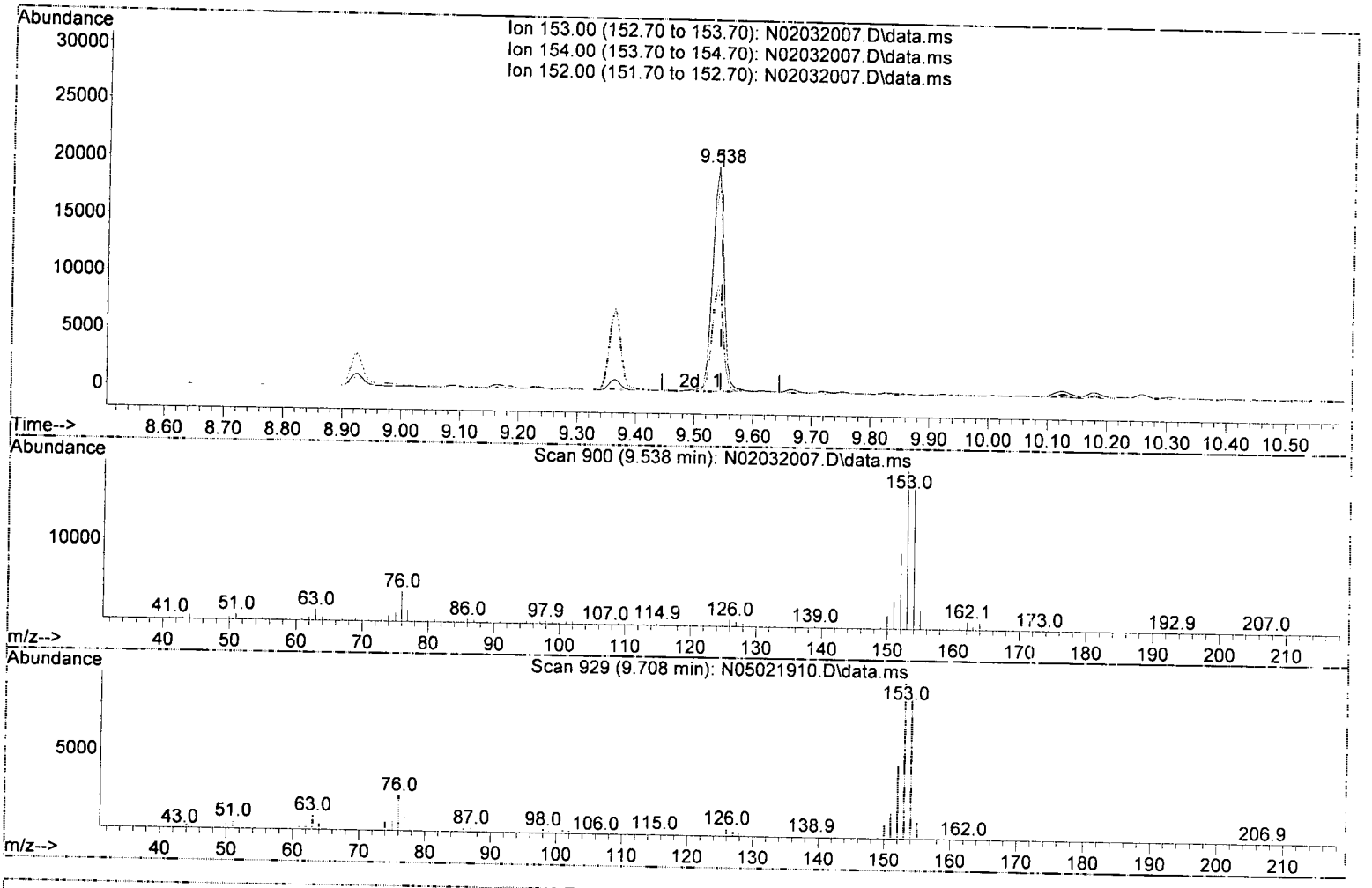
response 10123

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	13.48
151.00	19.30	19.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 19.73 ng/ml

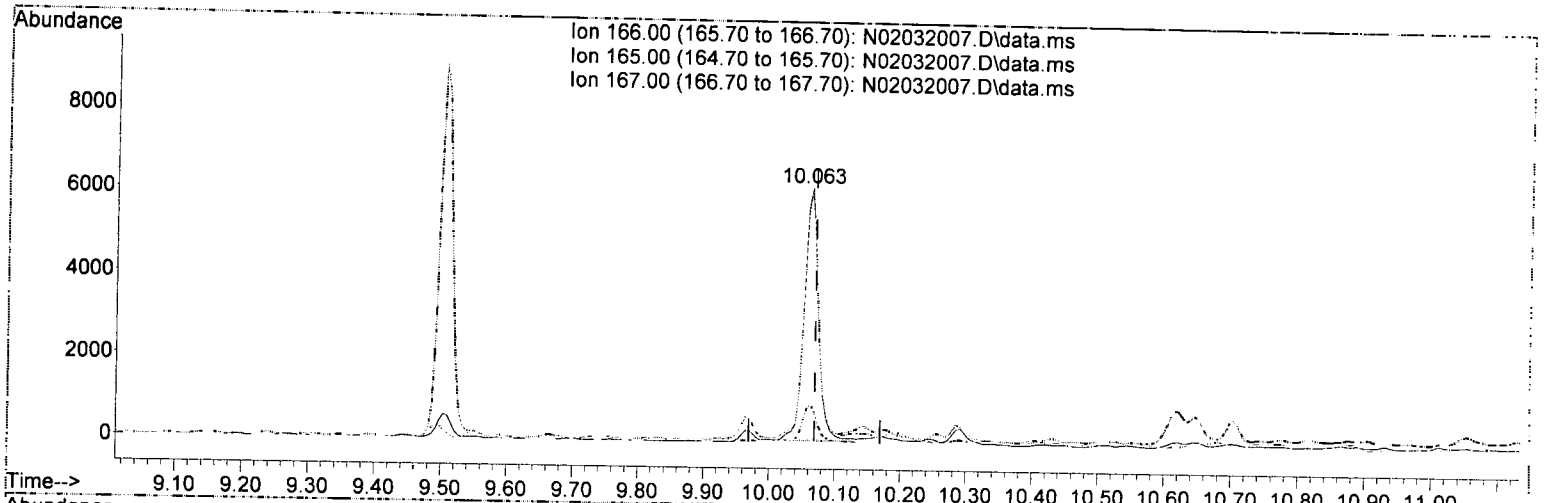
response 26298

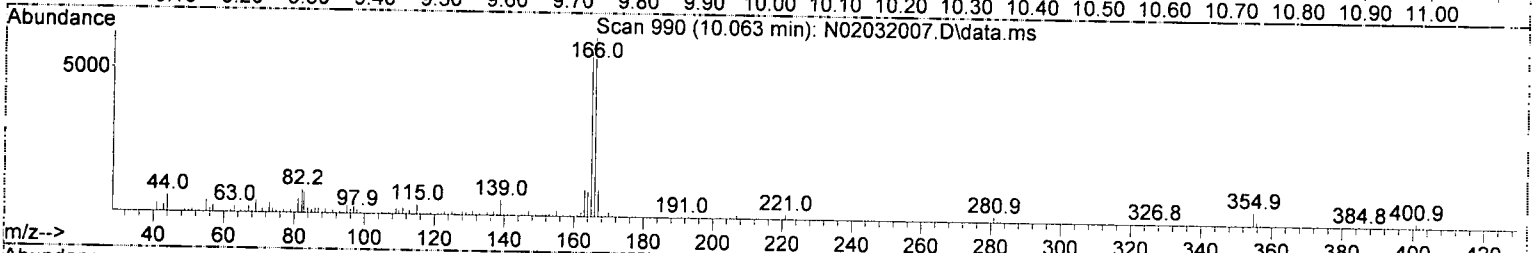
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	92.38
152.00	46.80	47.63
0.00	0.00	0.00

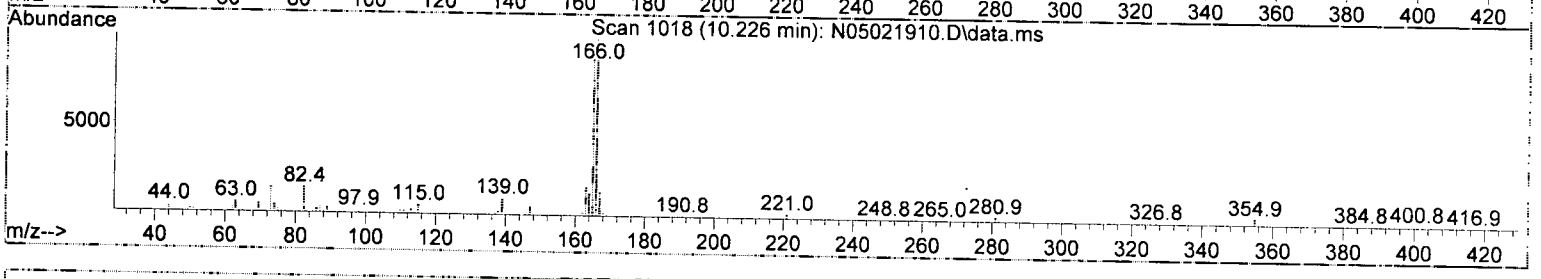
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02032007.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 6.87 ng/ml

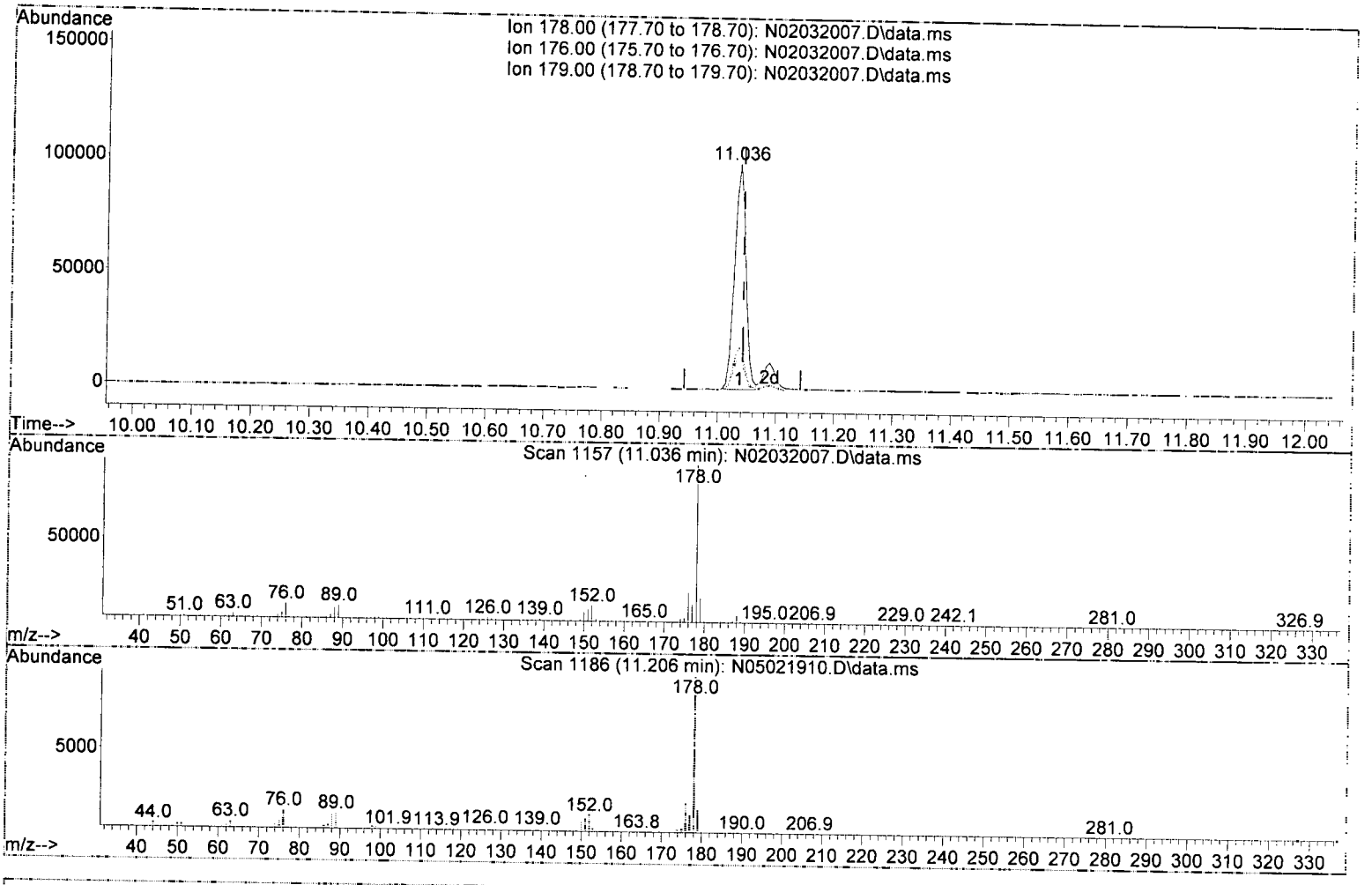
response 9374

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	97.50
167.00	13.60	14.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 68.86 ng/ml

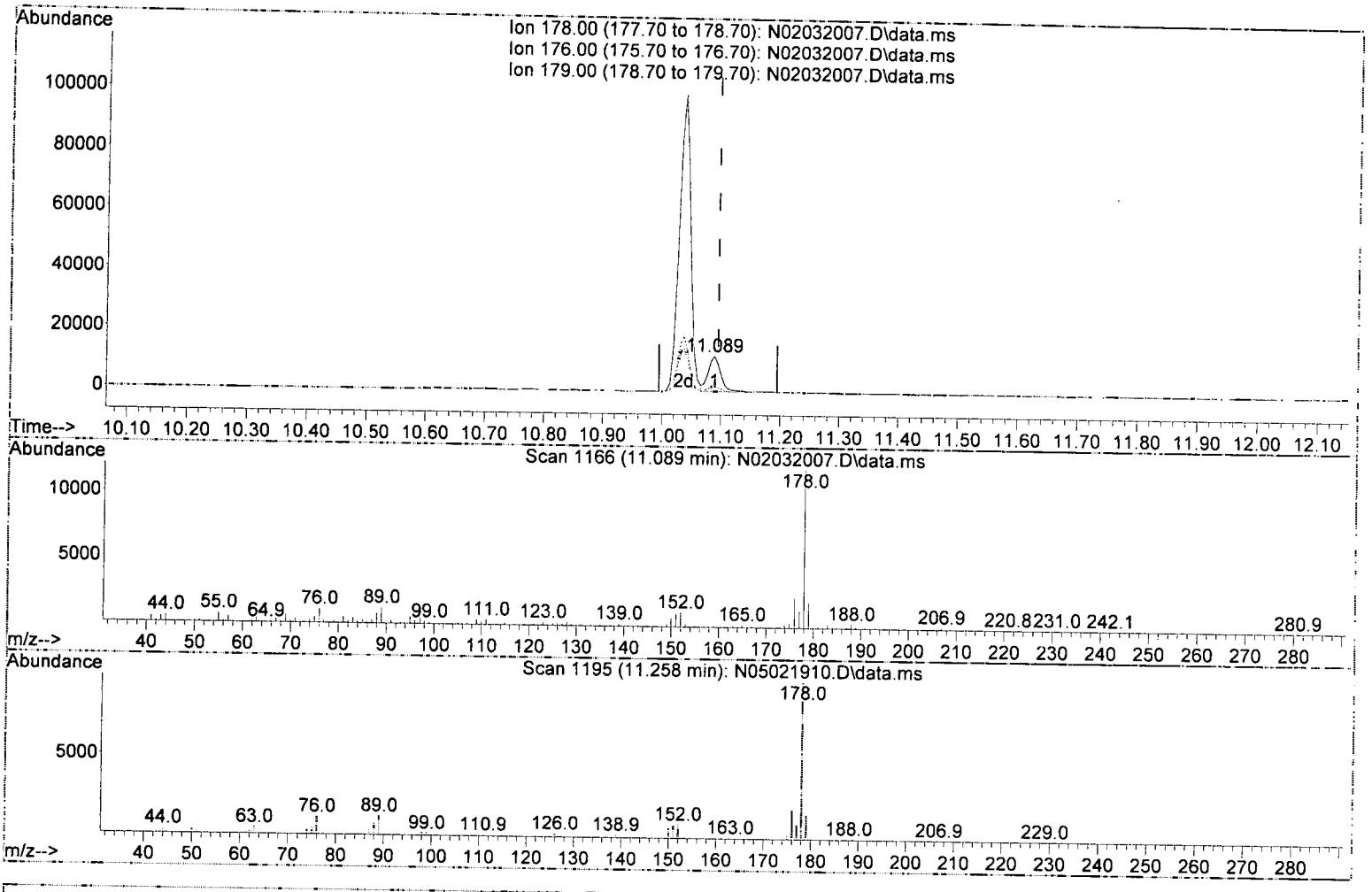
response 132697

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.76
179.00	15.10	15.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 9.66 ng/ml

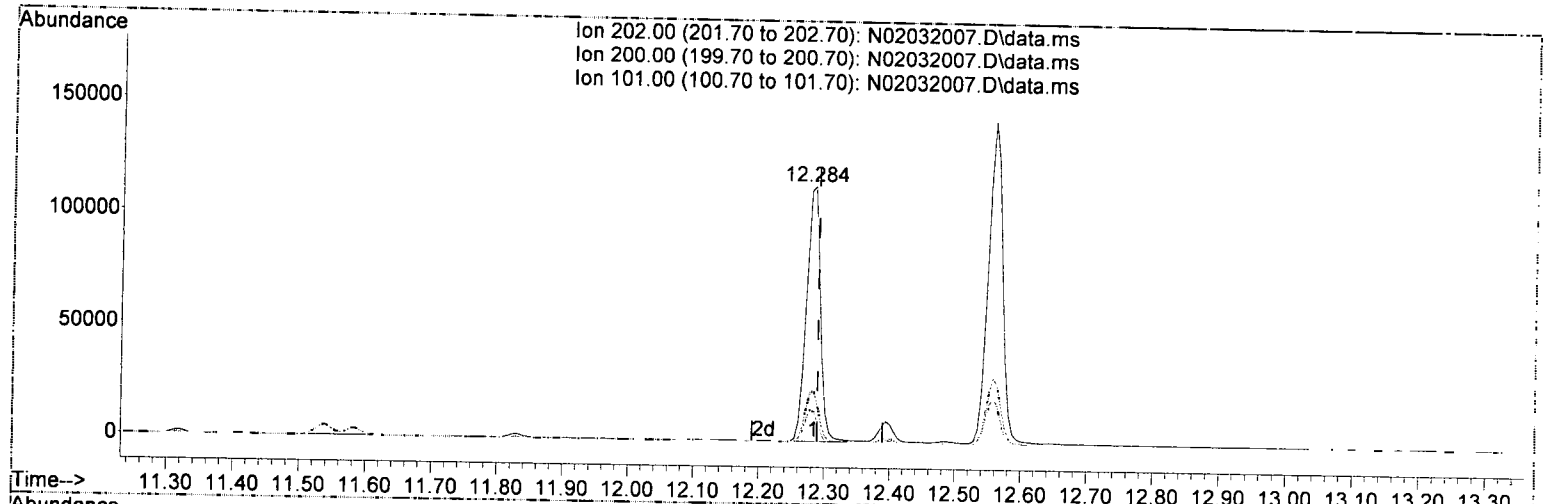
response 17313

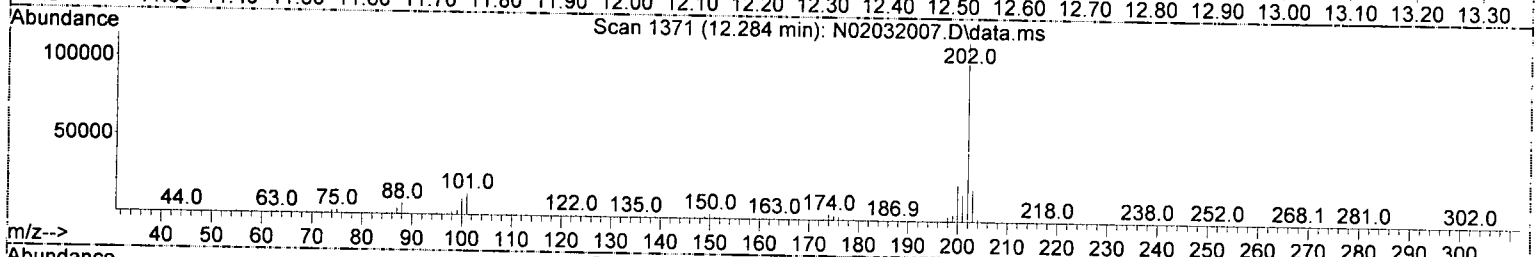
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.82
179.00	15.30	15.94
0.00	0.00	0.00

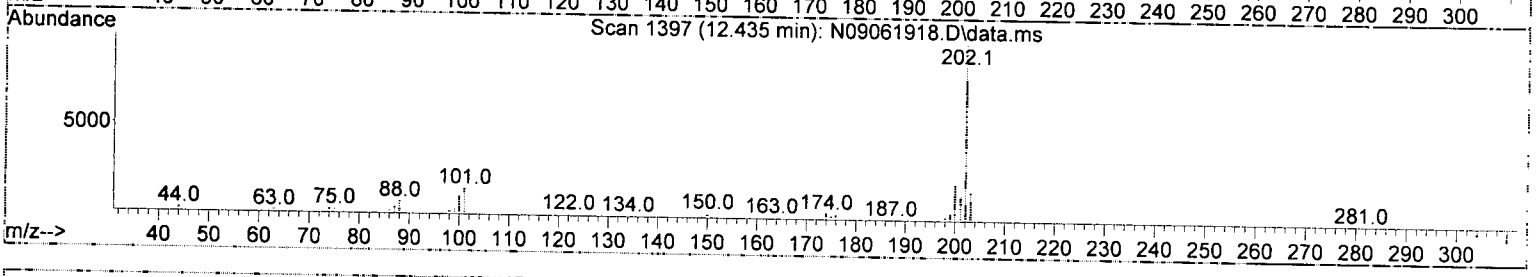
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02032007.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 87.09 ng/ml

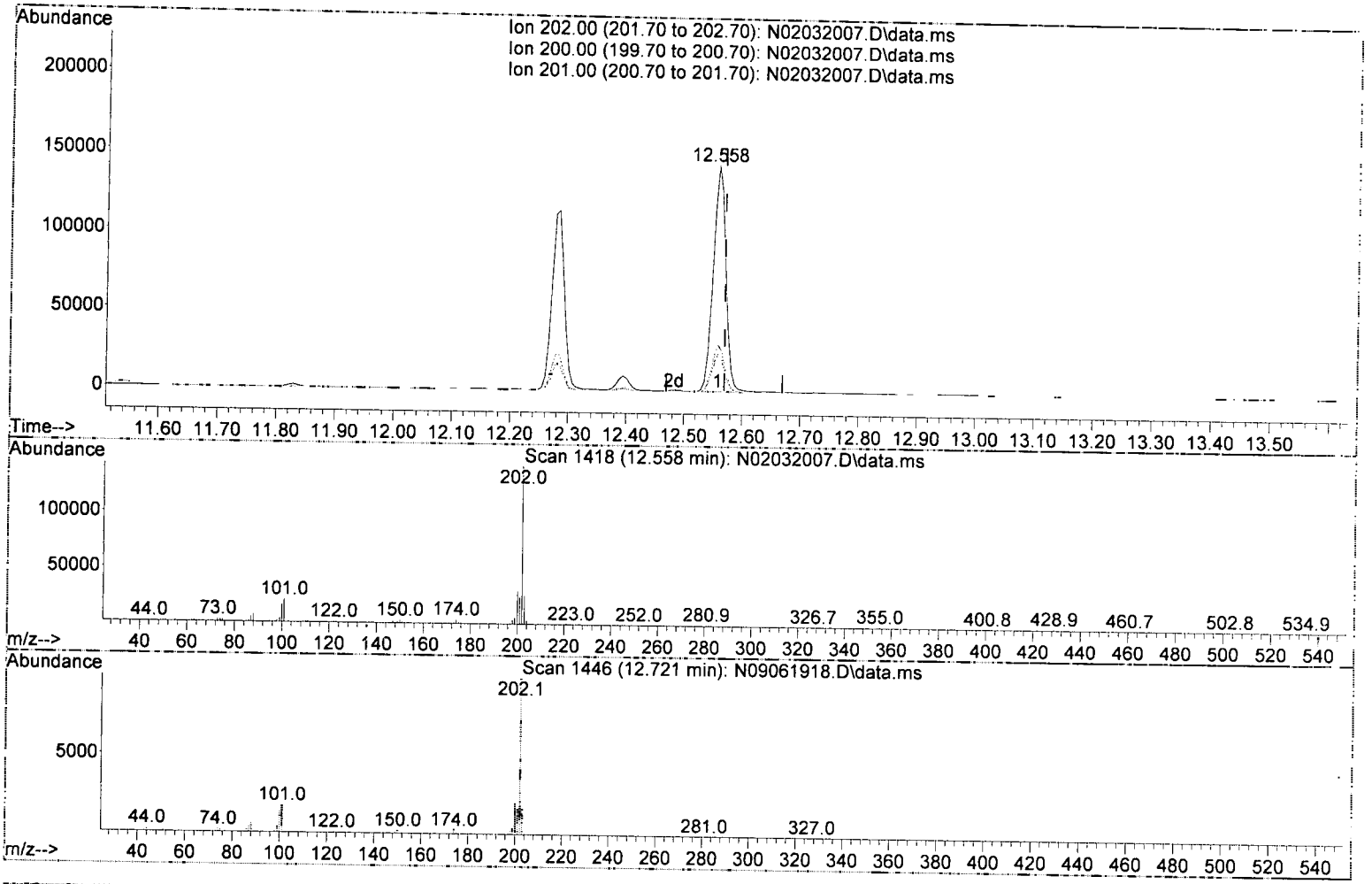
response 169088

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.98
101.00	15.30	11.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 103.78 ng/ml

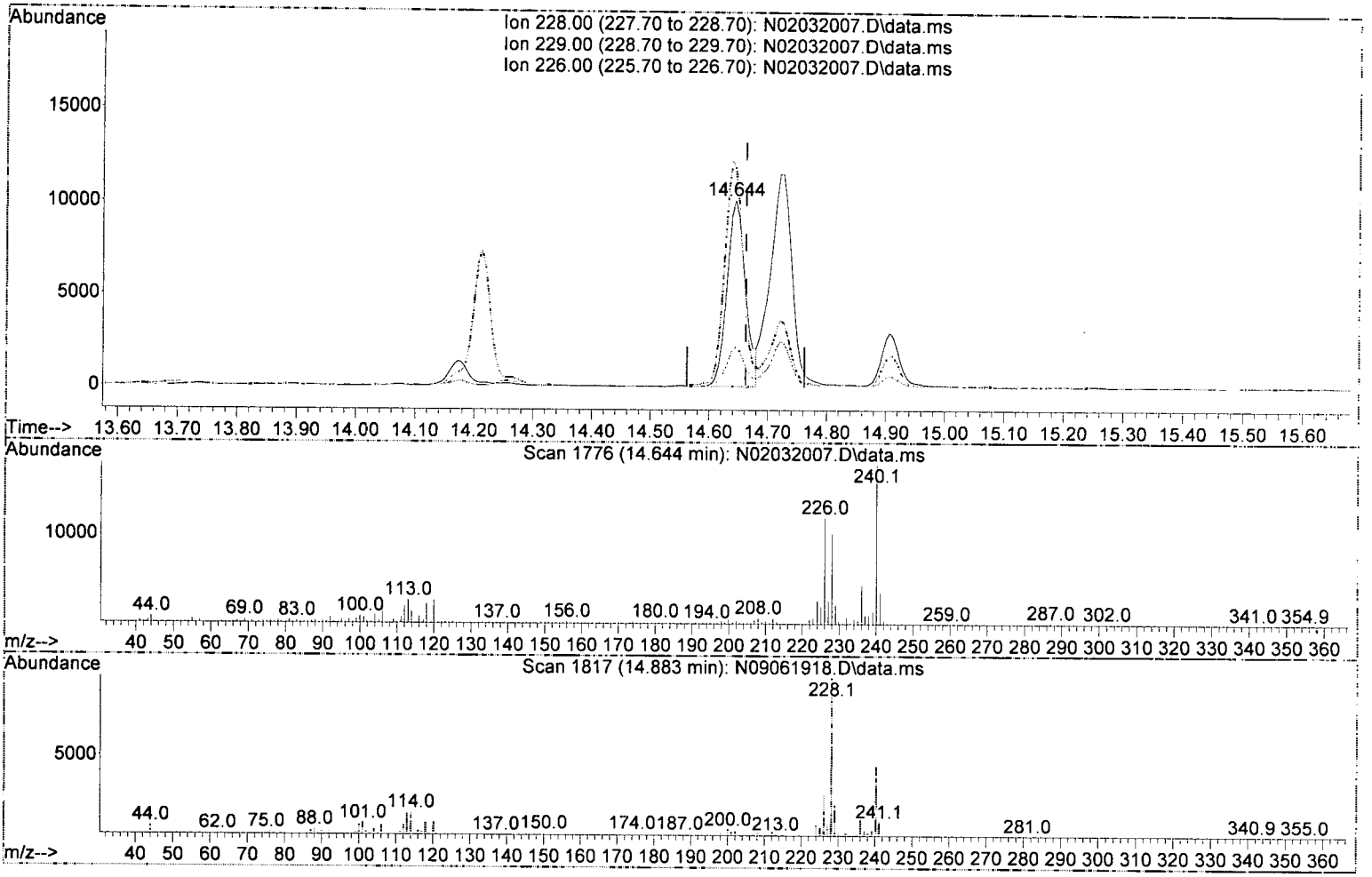
response 218329

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.70
201.00	16.80	16.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 14.21 ng/ml

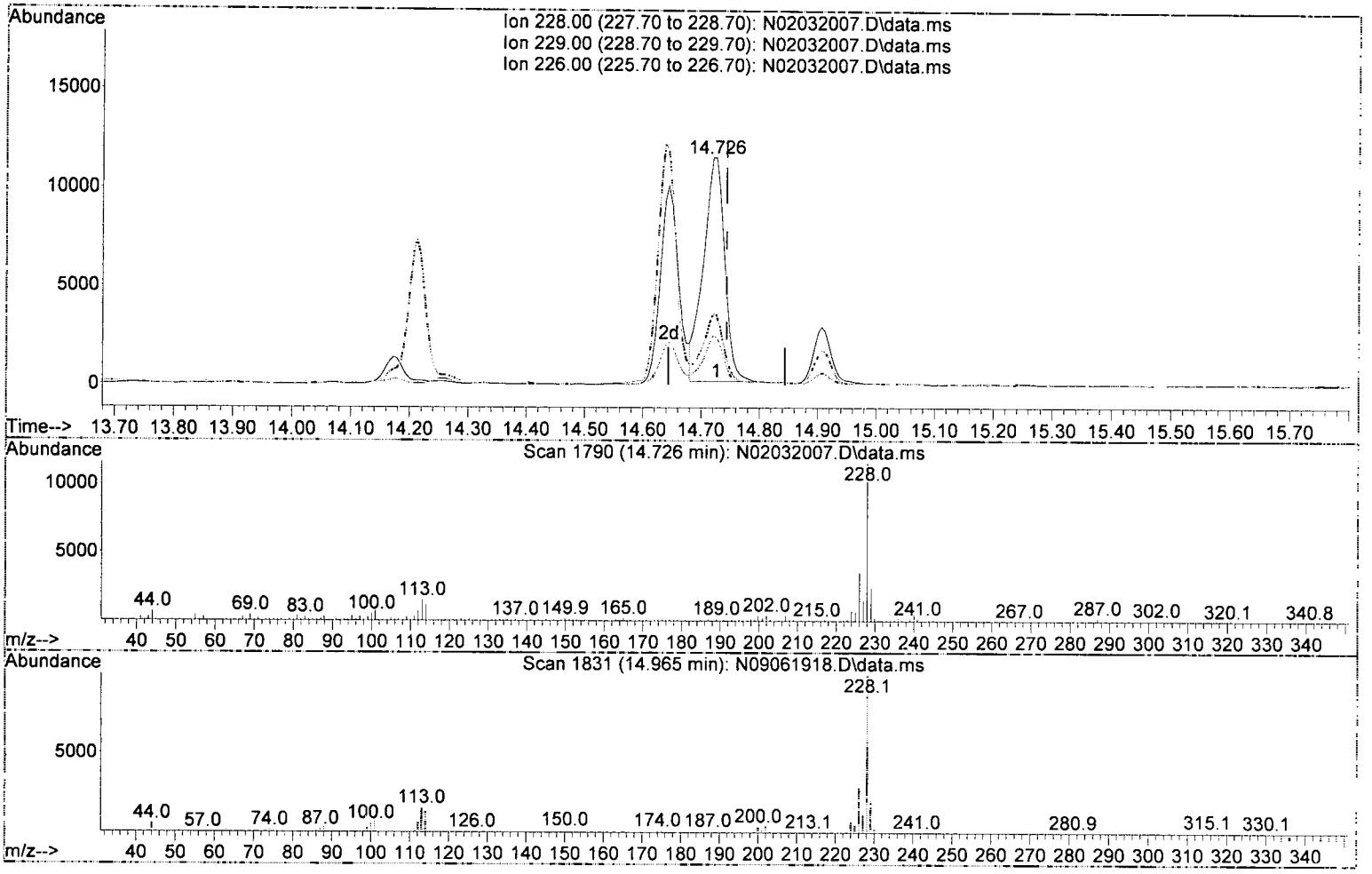
response 22209

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	21.52
226.00	26.20	117.19#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(28) Chrysene (T)

14.726min (-0.018) 19.70 ng/ml

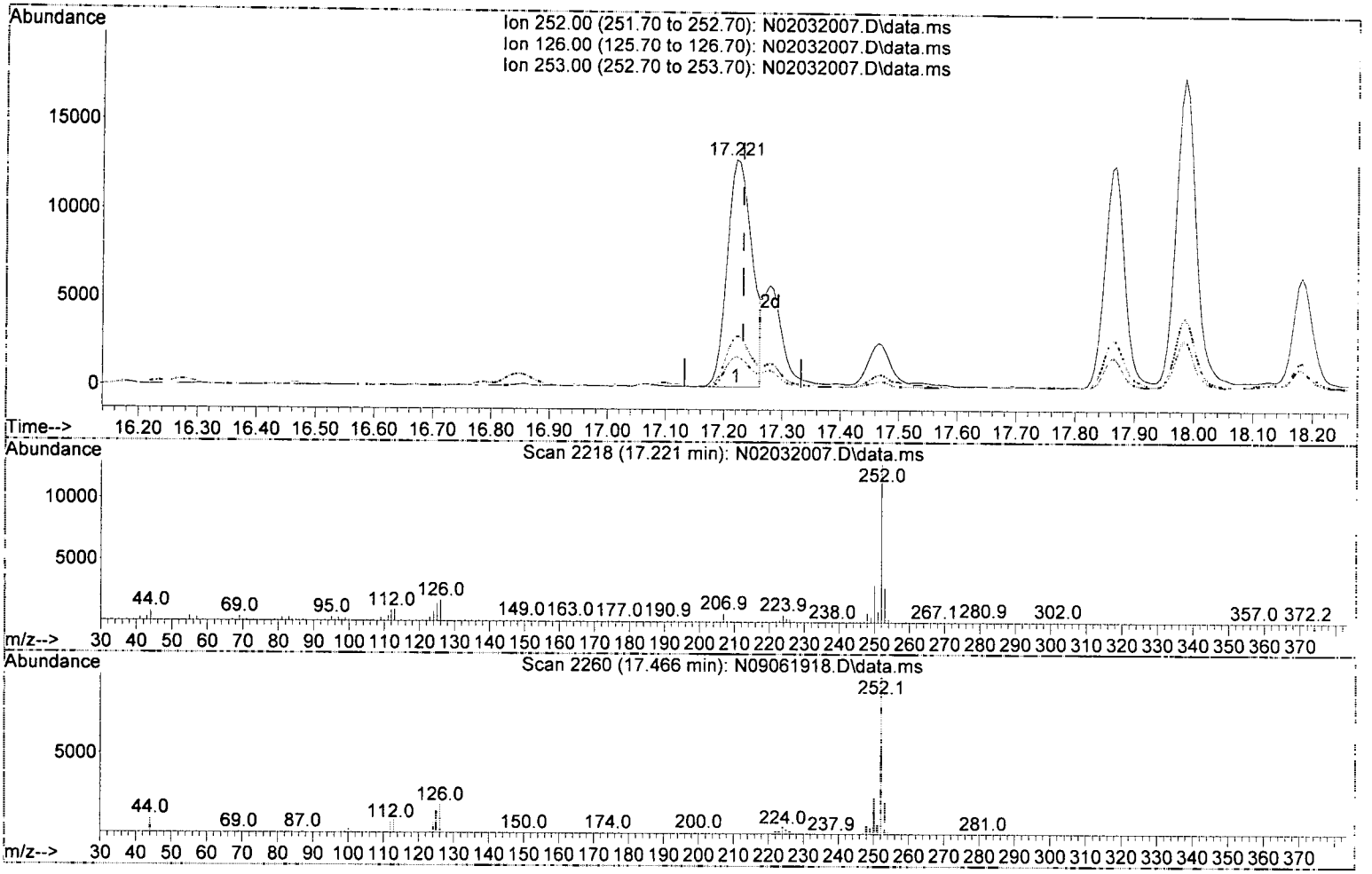
response 29149

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.09
226.00	28.60	30.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 24.31 ng/ml

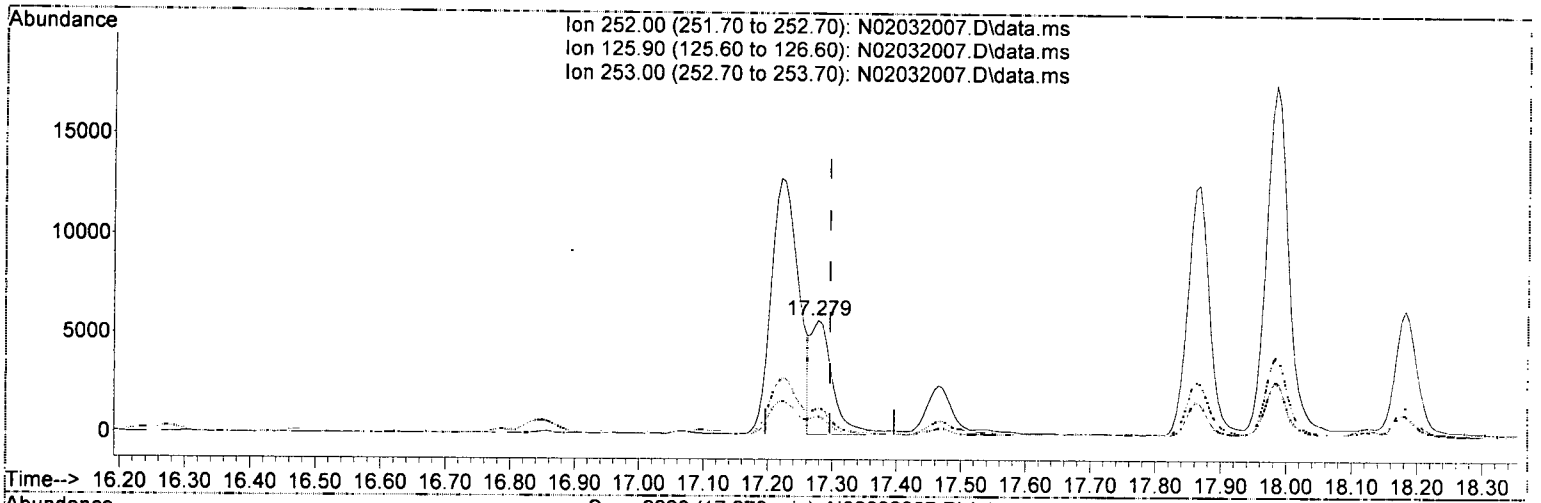
response 38361

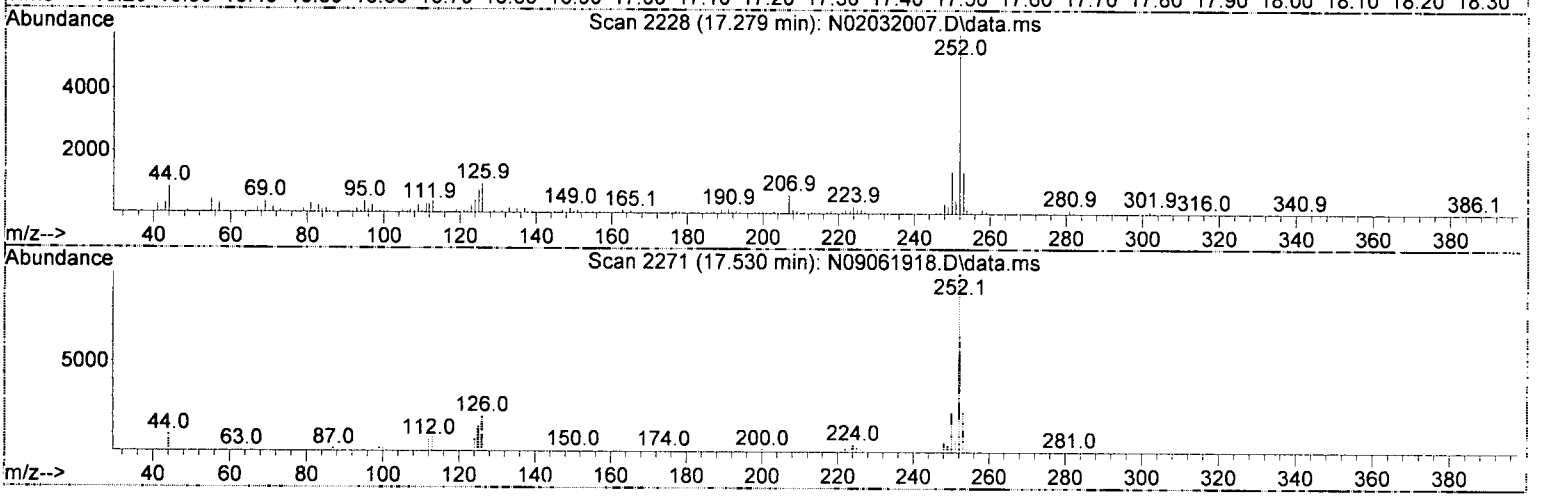
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.28
253.00	21.10	22.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02032007.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 8.58 ng/ml m

response 13326

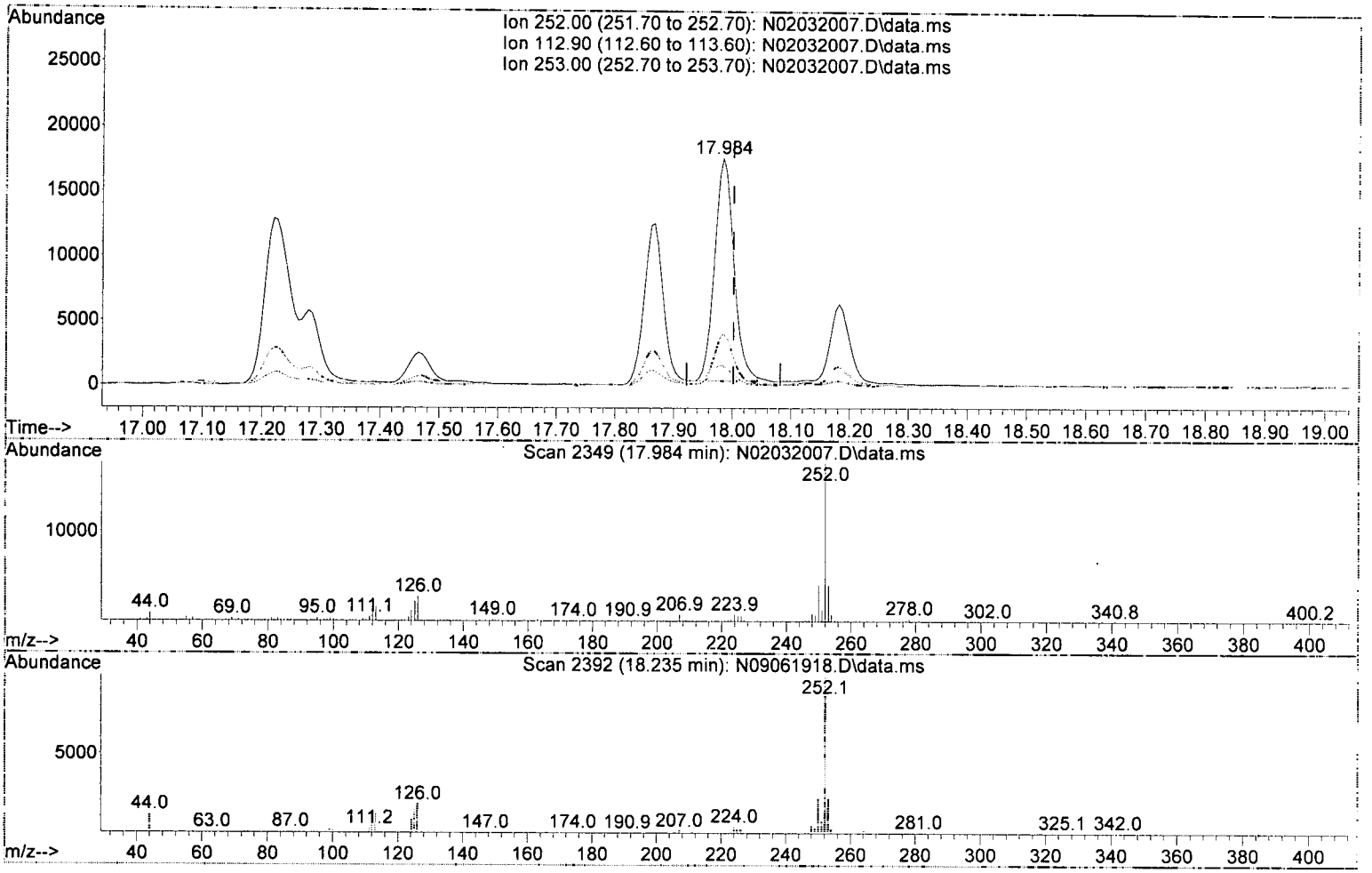
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.39
253.00	21.50	23.28
0.00	0.00	0.00

AMS 2/4/20 MOS

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 29.49 ng/ml

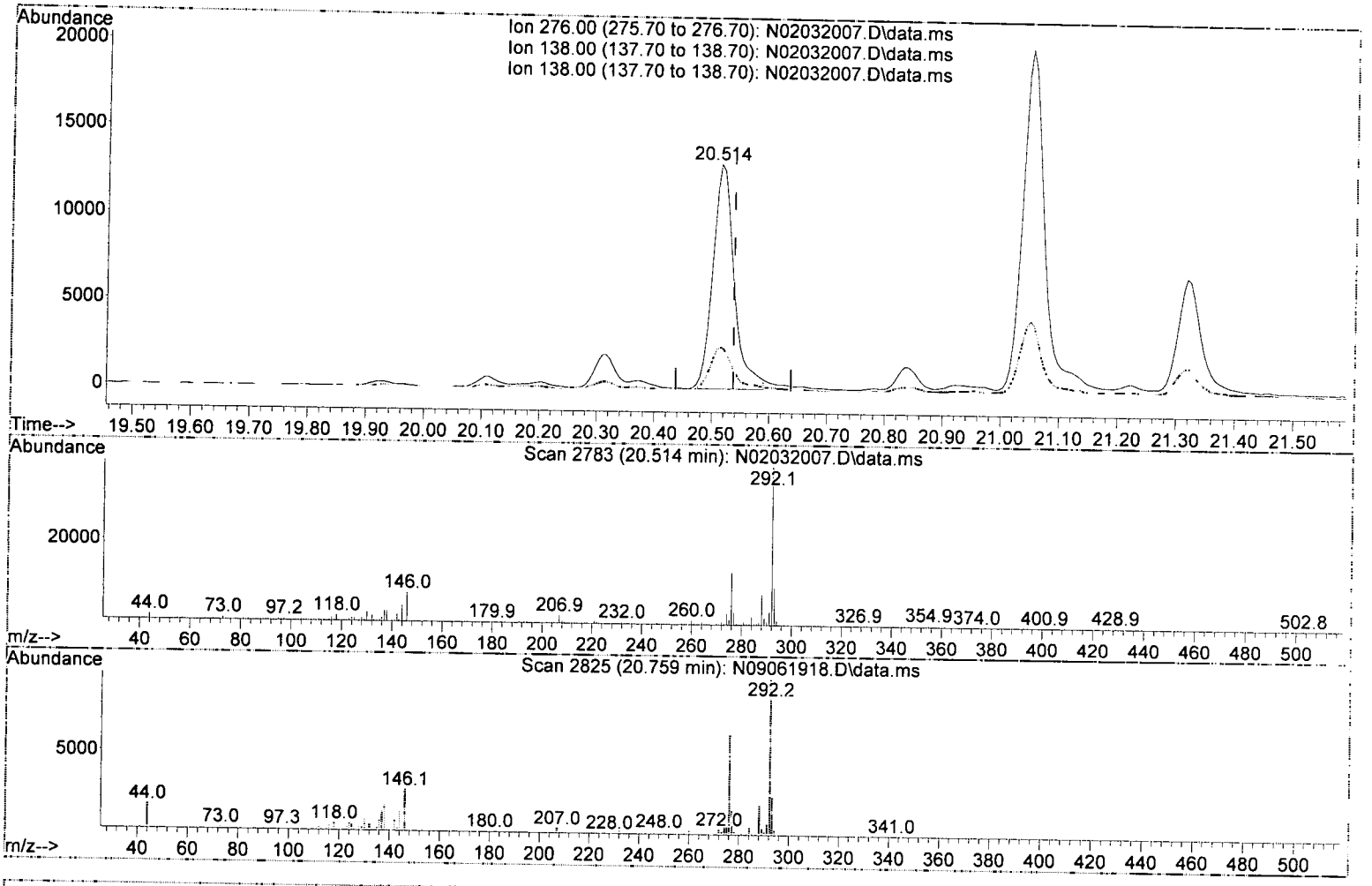
response 39834

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.81
253.00	21.90	22.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.024) 25.90 ng/ml

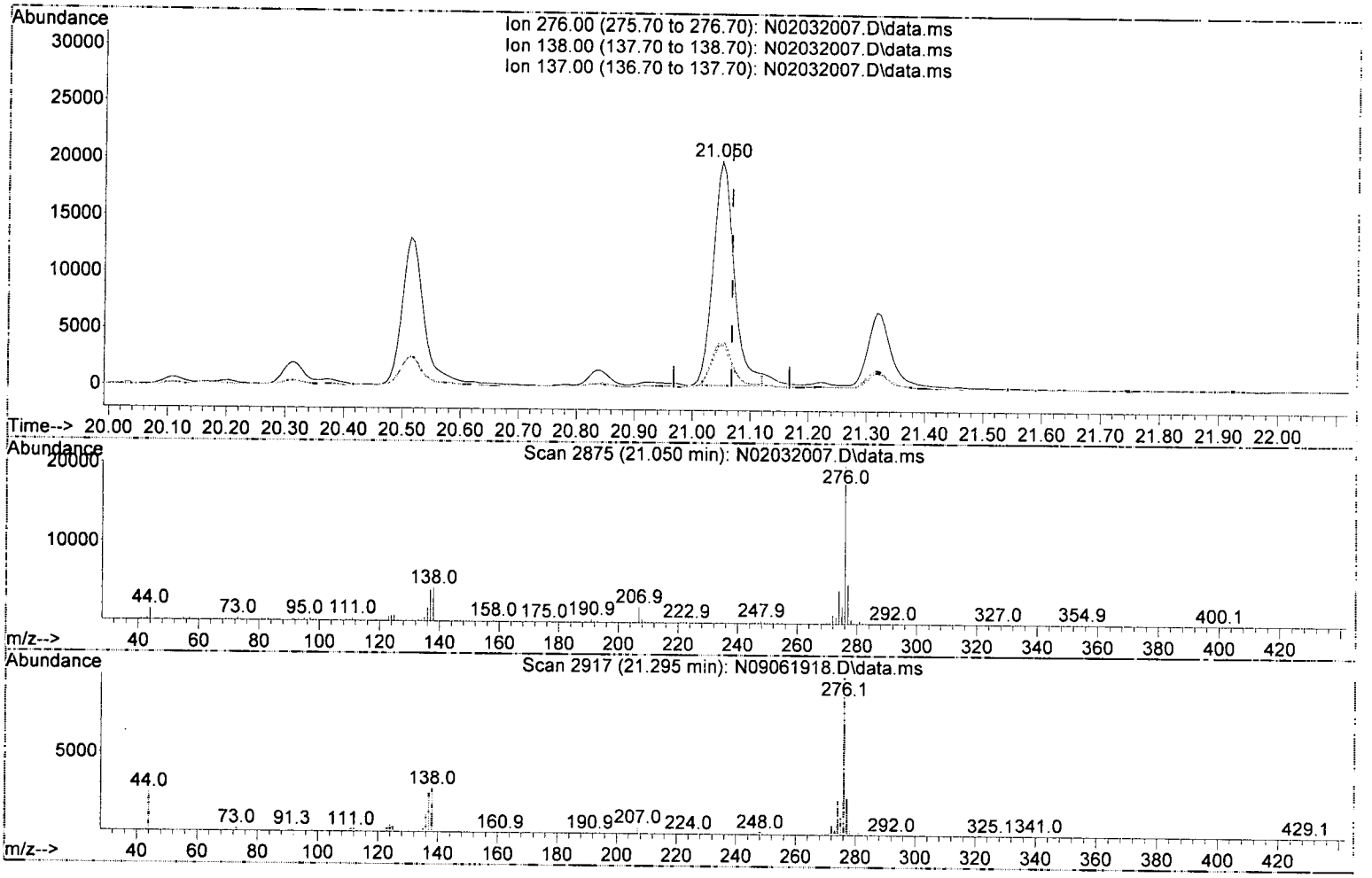
response 33485

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	19.20
138.00	31.60	19.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02032007.D\data.ms

(40) Benzo(g,h,i)perylene (T)

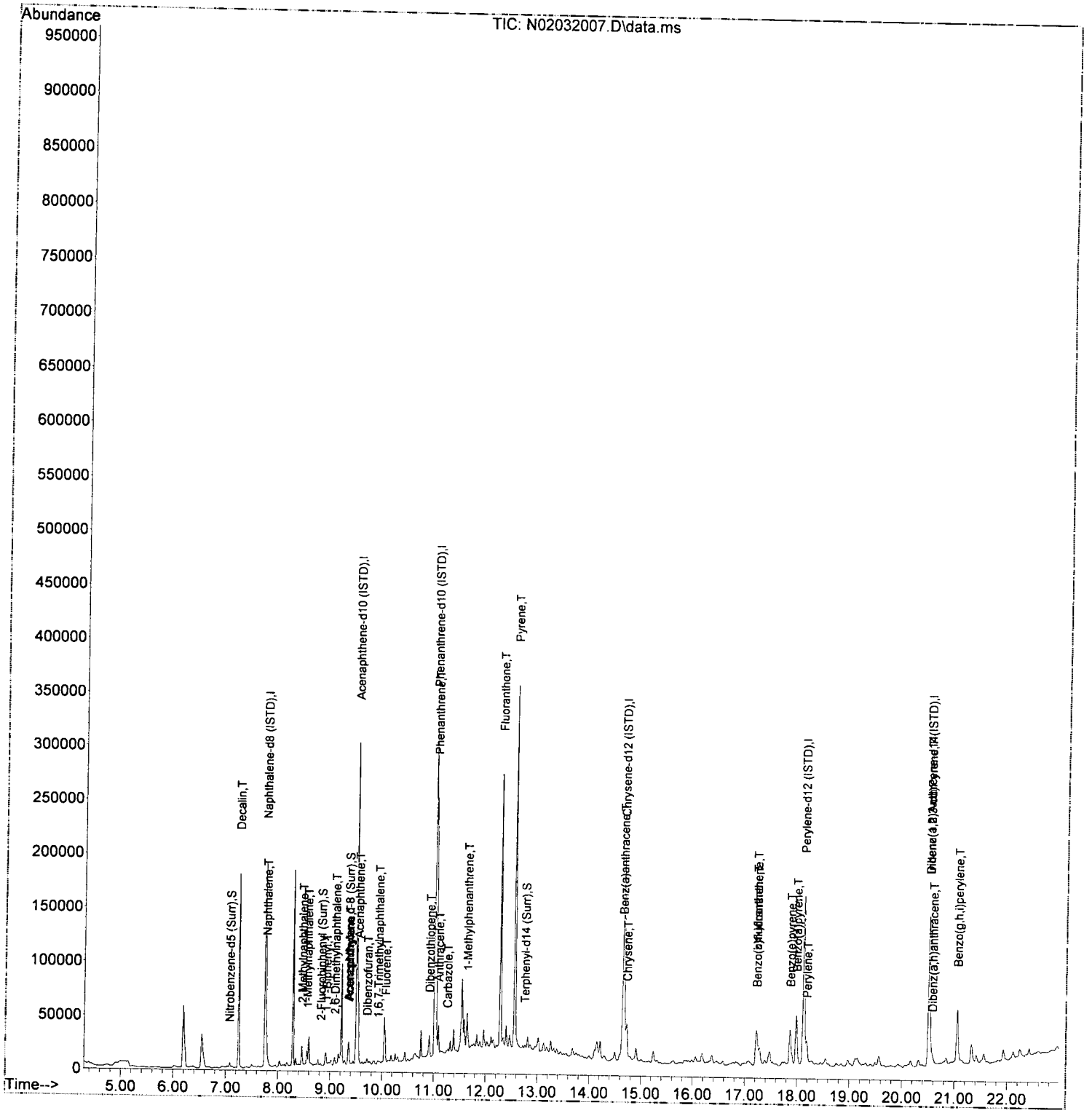
21.050min (-0.018) 36.52 ng/ml

response 50088

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	21.00
137.00	18.60	19.64
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B03036\
Data File : N02032007.D
Acq On : 03 Feb 2020 11:40
Operator : JK/ AMS/ DTH
Sample : A0A1011-03@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 07:35:25 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Sequence 0A31025 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0A31025**	Instrument:	**SV-GCMS14**
Date:	**01/31/20 10:11**	Calibration:	**A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A31025-TUN1	Sediment	QC	QC			A19K048	A20A236
2	0A31025-CCV1	Sediment	QC	QC			A19K048	A19K012
3	0A31025-CCB1	Sediment	QC	QC			A19K048	
4	0010978-BLK1	Sediment	QC	QC		0010978	A19K048	
5	0010978-BS1	Sediment	QC	QC		0010978	A19K048	
6	A0A0991-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
7	A0A1010-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
8	A0A0996-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
9	A0A0996-06	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
10	A0A0991-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
11	0010978-DUP1	Sediment	QC	QC		0010978	A19K048	
12	A0A0991-06	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
13	0010978-MS1	Sediment	QC	QC		0010978	A19K048	
14	0010978-MSD1	Sediment	QC	QC		0010978	A19K048	
15	A0A0991-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
16	A0A0991-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
17	A0A0991-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
18	A0A0994-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
19	A0A0994-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
20	A0A0996-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
21	A0A0996-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
22	A0A0996-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
23	A0A0996-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
24	A0A1002-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0010978	A19K048	
25	0A31025-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: AMS 2/3/20

Data Reviewed By: 2/3/20

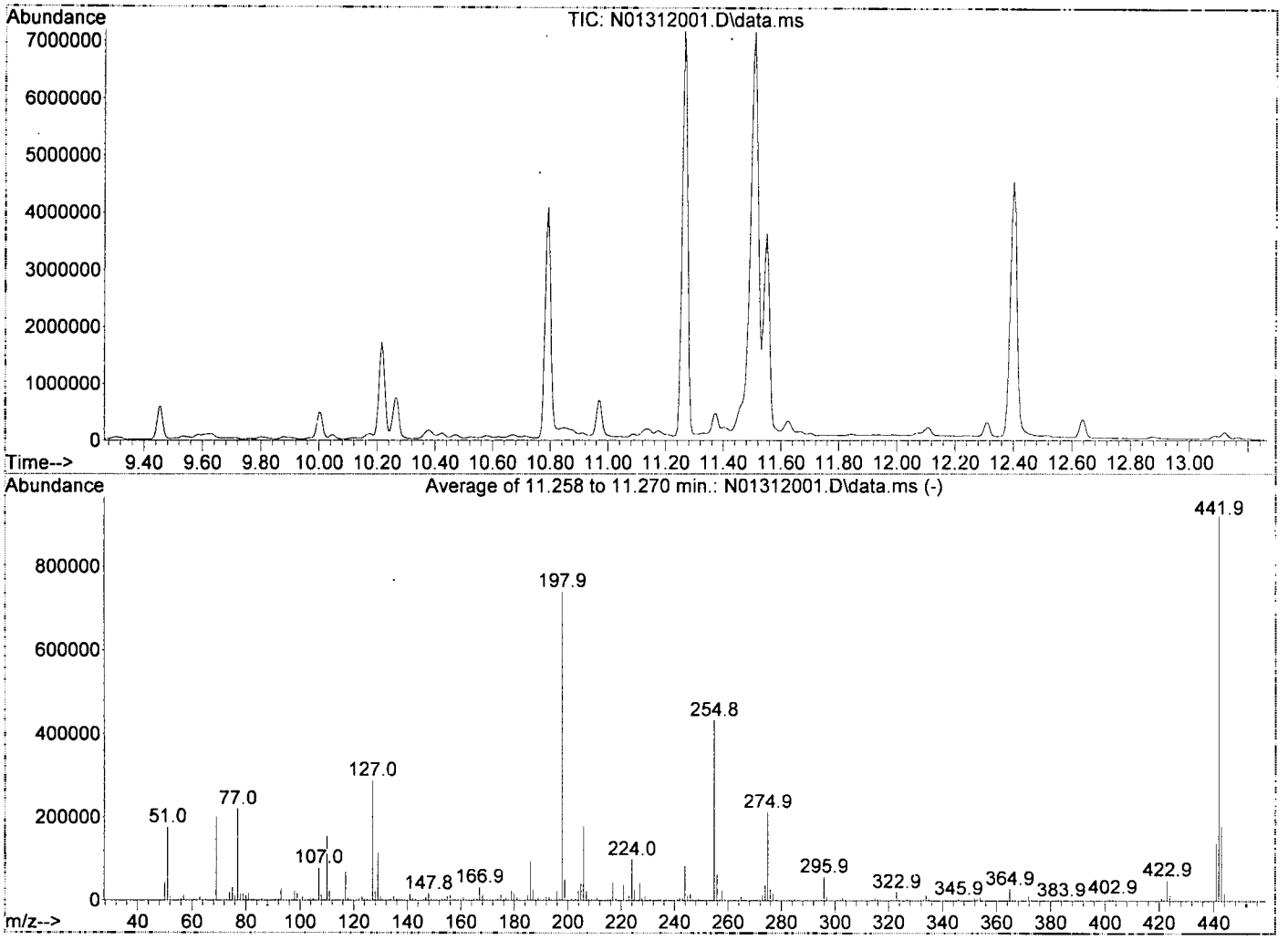
Comments:

Data Path : U:\data\2020-01\0A31025\
Data File : N01312001.D
Acq On : 31 Jan 2020 10:17
Operator : JK/ AMS/ DTH
Sample : 0A31025-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Wed Nov 06 13:10:03 2019

AMS 2/3/20



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3177	PASS
69	69	100	100	100.0	202034	PASS
70	69	0.00	2	0.5	1074	PASS
197	198	0.00	2	0.5	4038	PASS
198	198	100	100	100.0	740215	PASS
199	198	5	9	6.8	50004	PASS
365	198	1	100	3.9	28800	PASS
441	443	0.01	150	77.1	138317	PASS
442	198	0.10	200	124.4	920896	PASS
443	442	15	24	19.5	179312	PASS

Data Path : U:\data\2020-01\0A31025\
Data File : N01312001.D
Acq On : 31 Jan 2020 10:17
Operator : JK/ AMS/ DTH
Sample : 0A31025-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 03 08:42:02 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

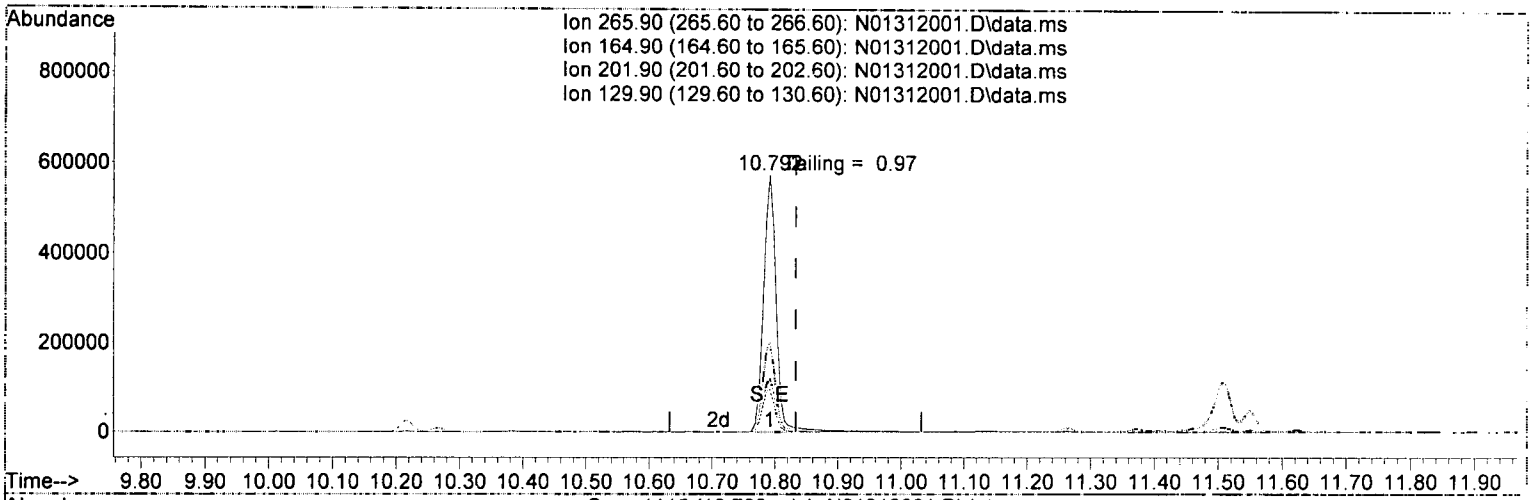
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.490	150	123475.	2.00	ug/mL	-0.03
2) Naphthalene-d8	7.691	136	338252	2.00	ug/mL	-0.04
3) Acenaphthene-d10	9.457	162	179518	2.00	ug/mL	-0.04
5) Phenanthrene-d10	10.966	188	344224	2.00	ug/mL	-0.04
11) Chrysene-d12	14.574	240	290856	2.00	ug/mL	-0.06
12) Perylene-d12	16.632	264	38	2.00	ug/mL	#-0.09
13) Dibenz(a,h)anthracene-...	17.868	292	238070	2.00	ug/mL	#-0.05
Target Compounds						Qvalue
4) Pentachlorophenol	10.792	266	807995	47.66	ug/mL	82
6) DFTPP	11.270	442	1458008	52.47	ug/mL	71
7) Benzidine	12.400	184	3199078	26.12	ug/mL	97
8) 4,4-DDE	12.633	TIC	479928	No Calib		
9) 4,4-DDD	13.123	TIC	187670	No Calib		
10) 4,4-DDT	13.642	TIC	11871274	33.63	ug/mL	95

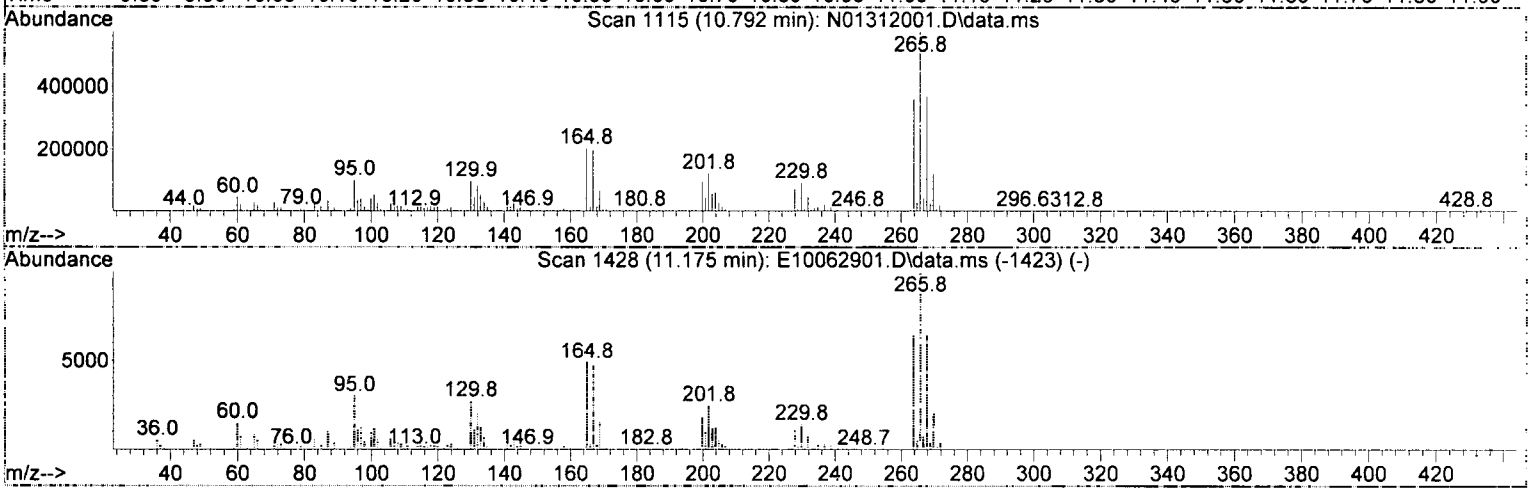
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312001.D
Acq On : 31 Jan 2020 10:17
Operator : JK/ AMS/ DTH
Sample : 0A31025-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 03 08:42:02 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N01312001.D\data.ms

(4) Pentachlorophenol

10.792min (-0.041) 47.66 ug/mL

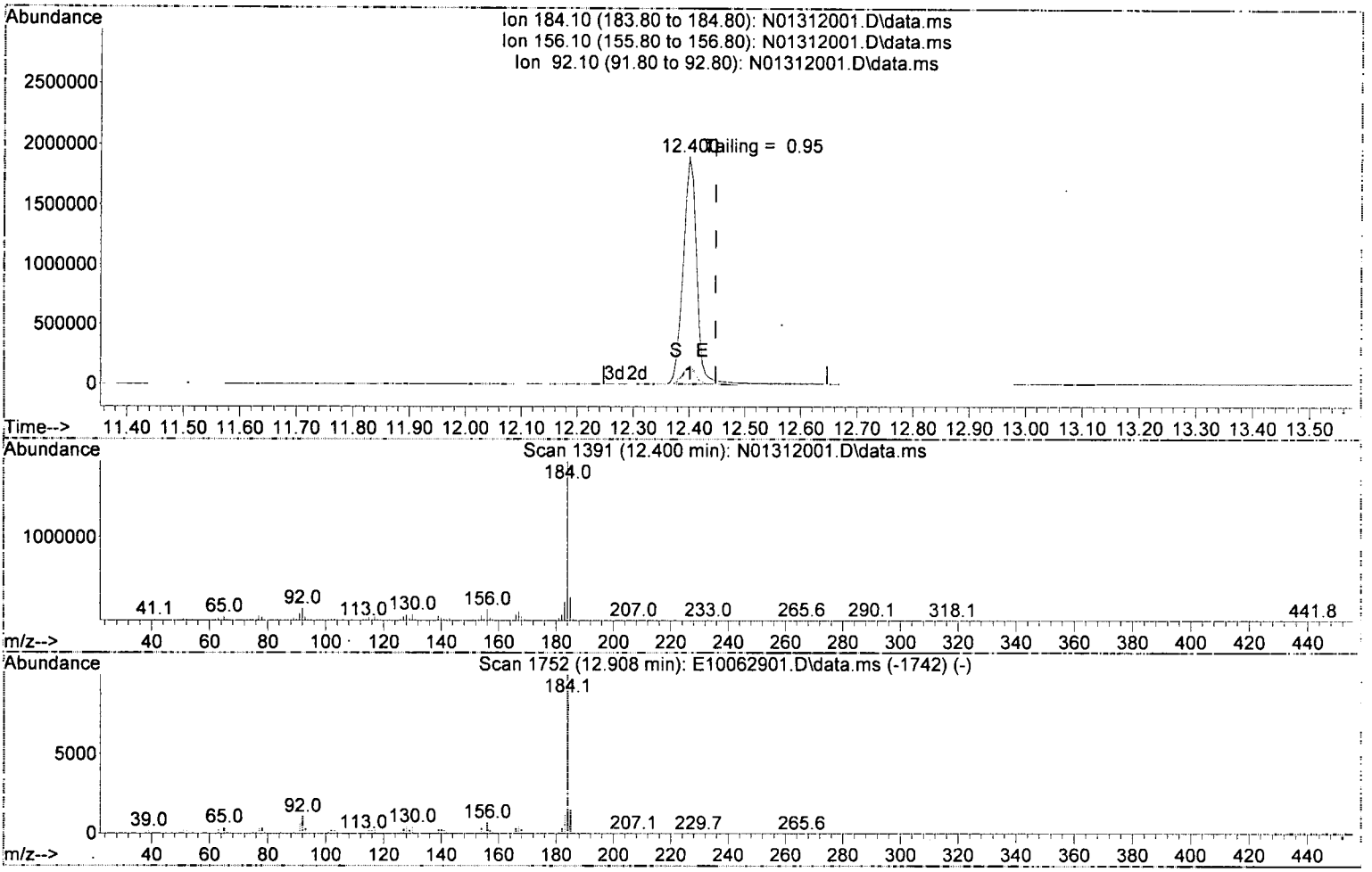
response 807995

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	35.27
201.90	25.80	21.17
129.90	27.30	16.77

Quantitation Report (Qedit)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312001.D
Acq On : 31 Jan 2020 10:17
Operator : JK/ AMS/ DTH
Sample : 0A31025-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 03 08:42:02 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N01312001.D\data.ms

(7) Benzidine

12.400min (-0.047) 26.12 ug/mL

response 3199078

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.02
92.10	8.20	7.81
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
0A31025-TUN1
SV-GCMS14

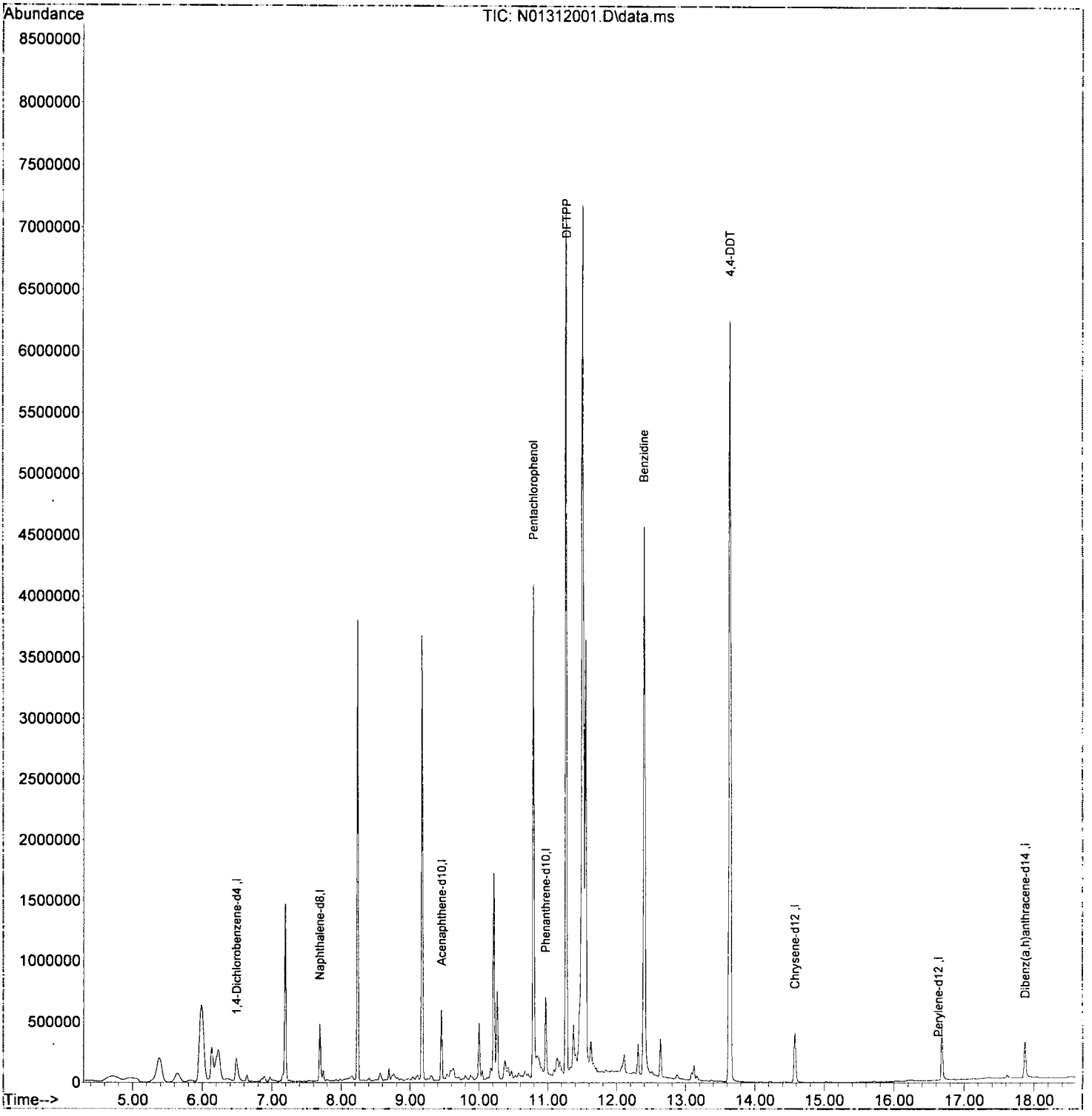
First Column Area Counts		Percent Breakdown	
DDE	479928		
DDD	187670		
DDT	1187274	5.32	PASS

Breakdown must be less than 20% to accept sample data.

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312001.D
Acq On : 31 Jan 2020 10:17
Operator : JK/ AMS/ DTH
Sample : 0A31025-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 03 08:42:02 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2020-01\0A31025\
Data File : N01312002.D
Acq On : 31 Jan 2020 10:45
Operator : JK/ AMS/ DTH
Sample : 0A31025-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/3/20

Quant Time: Feb 03 08:43:14 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

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	117	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	48.915	2.2	118	0.00
3	T	Decalin	50.000	26.294	47.4#	61	0.00
4	T	Naphthalene	50.000	49.164	1.7	117	0.00
5	T	2-Methylnaphthalene	50.000	42.472	15.1	99	0.00
6	T	1-Methylnaphthalene	50.000	42.410	15.2	96	0.00
7	T	1,1'-Biphenyl	50.000	41.696	16.6	98	0.00
8	T	2,6-Dimethylnaphthalene	50.000	40.470	19.1	92	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	94	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	54.203	-8.4	102	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	1.538	96.9#	6	0.00
12	T	Acenaphthylene	50.000	46.140	7.7	87	0.00
13	T	Acenaphthene	50.000	47.745	4.5	92	0.00
14	T	Dibenzofuran	50.000	51.326	-2.7	97	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	49.868	0.3	96	0.00
16	T	Fluorene	50.000	49.011	2.0	93	0.00
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	99	0.00
18	T	Dibenzothiopene	50.000	48.329	3.3	97	0.00
19	T	Phenanthrene	50.000	48.375	3.3	97	0.00
20	T	Anthracene	50.000	47.618	4.8	95	0.00
21	T	Carbazole	50.000	45.607	8.8	91	0.00
22	T	1-Methylphenanthrene	50.000	49.921	0.2	100	0.00
23	T	Fluoranthene	50.000	50.254	-0.5	100	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	117	-0.02
25	T	Pyrene	50.000	43.258	13.5	100	-0.01
26	S	Terphenyl-d14 (Surr)	50.000	46.232	7.5	109	-0.01
27	T	Benz(a)anthracene	50.000	44.618	10.8	110	-0.01
28	T	Chrysene	50.000	46.713	6.6	111	-0.02
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	135	-0.01
30	T	Benzo(b)fluoranthene	50.000	45.824	8.4	122	-0.01
31	T	Benzo(k)fluoranthene	50.000	46.391	7.2	127	-0.01
32	T	Benzo(b+k)fluoranthene	100.000	93.489	6.5	126	-0.01
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34	T	Benzo(e)pyrene	50.000	44.781	10.4	122	-0.02
35	T	Benzo(a)pyrene	50.000	47.487	5.0	126	-0.01
36	T	Perylene	50.000	48.171	3.7	130	-0.01
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	165	-0.02
38	T	Indeno(1,2,3-cd)Pyrene	50.000	45.096	9.8	150	-0.02
39	T	Dibenz(a,h)anthracene	50.000	46.635	6.7	156	-0.02
40	T	Benzo(g,h,i)perylene	50.000	45.498	9.0	148	-0.01

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

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312002.D
Acq On : 31 Jan 2020 10:45
Operator : JK/ AMS/ DTH
Sample : 0A31025-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

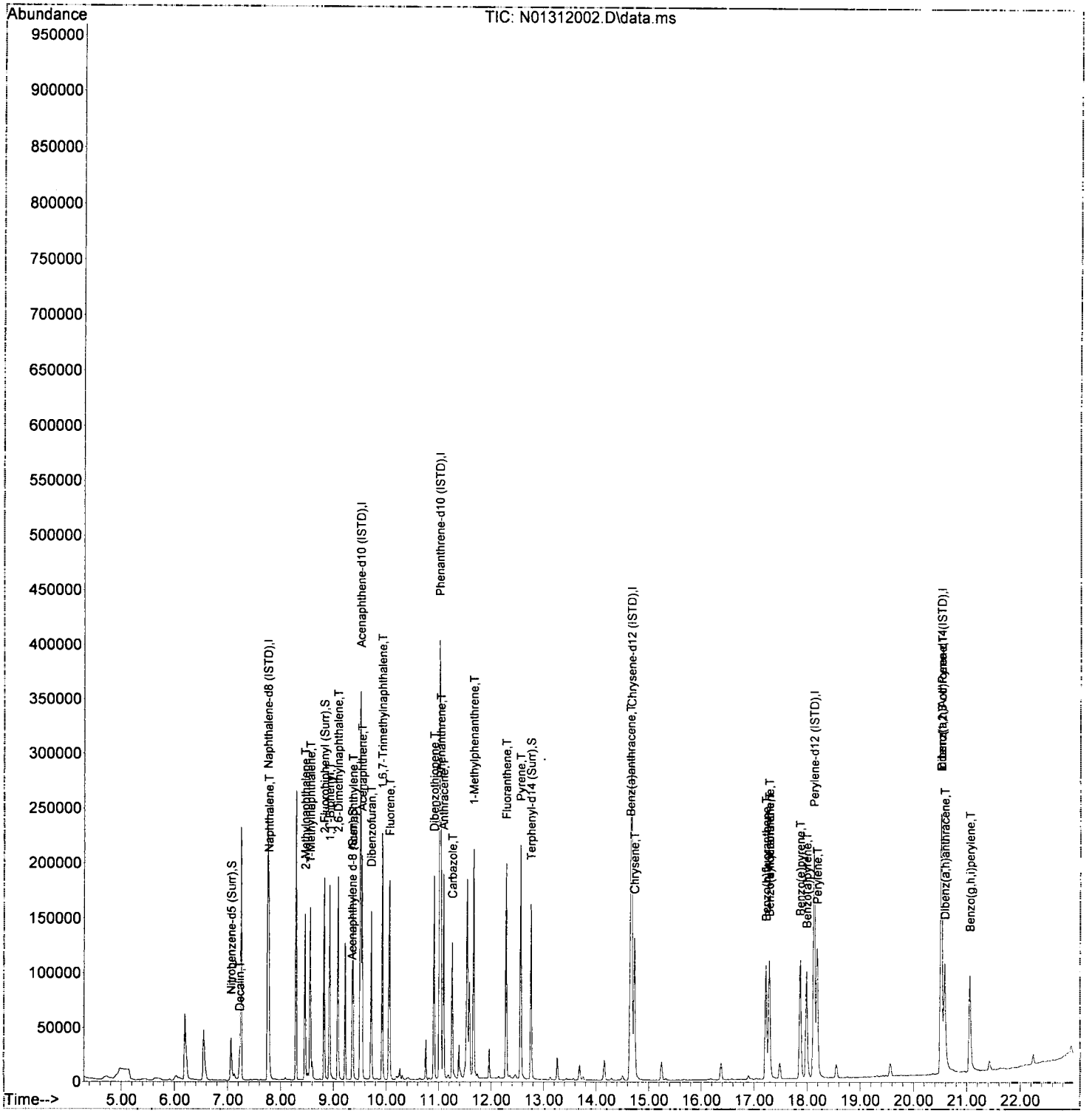
Quant Time: Feb 03 08:43:14 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	173778	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	110800	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	217646	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	198181	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	191827	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	153811	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	28246	48.91	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	89595	54.20	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	6634	1.54	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	96363	46.23	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.225	138	3402	26.29	ng/ml	92
4) Naphthalene	7.773	128	94229	49.16	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	68982	42.47	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	68868	42.41	ng/ml	98
7) 1,1'-Biphenyl	8.921	154	91081	41.70	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.084	156	64561	40.47	ng/ml	99
12) Acenaphthylene	9.364	152	110988	46.14	ng/ml	99
13) Acenaphthene	9.539	153	75224	47.75	ng/ml	99
14) Dibenzofuran	9.713	168	101287	51.33	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.923	170	65892	49.87	ng/ml	98
16) Fluorene	10.063	166	79017	49.01	ng/ml	99
18) Dibenzothiopene	10.908	184	110011	48.33	ng/ml	96
19) Phenanthrene	11.037	178	123204	48.38	ng/ml	100
20) Anthracene	11.089	178	112804	47.62	ng/ml	99
21) Carbazole	11.258	167	87424	45.61	ng/ml	99
22) 1-Methylphenanthrene	11.666	192	88321	49.92	ng/ml	97
23) Fluoranthene	12.284	202	128952	50.25	ng/ml	96
25) Pyrene	12.558	202	133937	43.26	ng/ml	99
27) Benz(a)anthracene	14.650	228	102663	44.62	ng/ml	100
28) Chrysene	14.726	228	101715	46.71	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	101430	45.82	ng/ml	92
31) Benzo(k)fluoranthene	17.285	252	101102	46.39	ng/ml	92
32) Benzo(b+k)fluoranthene	17.285	252	211665	93.49	ng/ml	92
34) Benzo(e)pyrene	17.868	252	100229	44.78	ng/ml	97
35) Benzo(a)pyrene	17.990	252	89967	47.49	ng/ml	96
36) Perylene	18.188	252	112405	48.17	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	85546	45.10	ng/ml	78
39) Dibenz(a,h)anthracene	20.584	278	83124	46.63	ng/ml	83
40) Benzo(g,h,i)perylene	21.056	276	91557	45.50	ng/ml	99

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

Data Path : U:\data\2020-01\0A31025\
Data File : N01312002.D
Acq On : 31 Jan 2020 10:45
Operator : JK/ AMS/ DTH
Sample : 0A31025-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:43:14 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312003.D
Acq On : 31 Jan 2020 11:18
Operator : JK/ AMS/ DTH
Sample : 0A31025-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/3/20

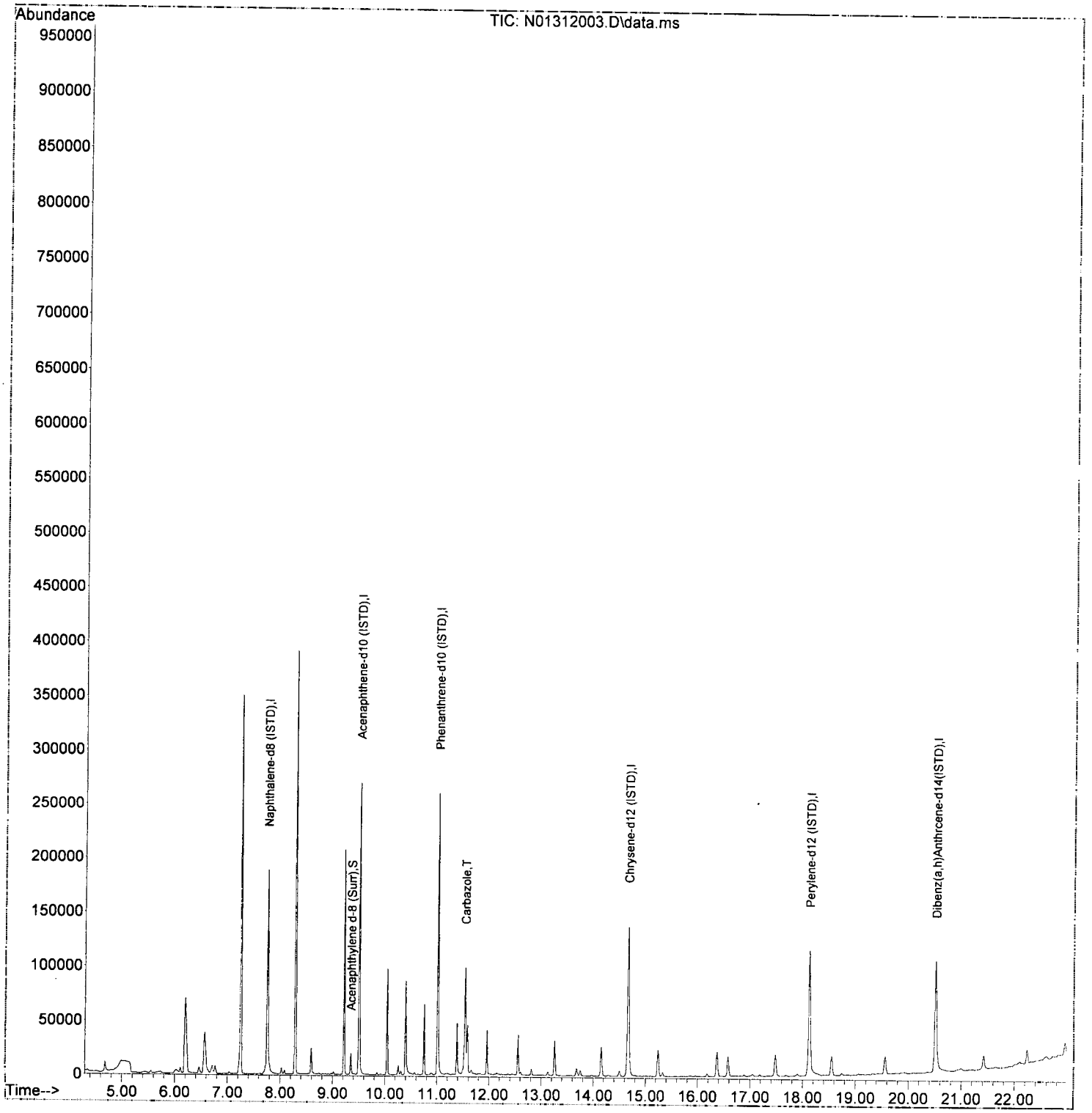
Quant Time: Feb 03 08:43:34 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	162261	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	89441	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	154546	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	119810	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	114107	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	98923	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
11) Acenaphthylene d-8 (Surr)	9.352	160	12845	5.73 ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00 ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.778	128	152	N.D.	
5) 2-Methylnaphthalene	0.000		0	N.D.	
6) 1-Methylnaphthalene	0.000		0	N.D.	
7) 1,1'-Biphenyl	0.000		0	N.D.	
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.	
12) Acenaphthylene	9.364	152	78	N.D.	
13) Acenaphthene	0.000		0	N.D.	
14) Dibenzofuran	0.000		0	N.D.	
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.	
16) Fluorene	0.000		0	N.D.	
18) Dibenzothiopene	0.000		0	N.D.	
19) Phenanthrene	11.037	178	242	N.D.	
20) Anthracene	11.095	178	106	N.D.	
21) Carbazole	11.538	167	628	0.46 ng/ml	86
22) 1-Methylphenanthrene	0.000		0	N.D.	
23) Fluoranthene	12.290	202	292	N.D.	
25) Pyrene	12.564	202	244	N.D.	
27) Benz(a)anthracene	14.674	228	341	N.D.	
28) Chrysene	14.726	228	122	N.D.	
30) Benzo(b)fluoranthene	0.000		0	N.D.	
31) Benzo(k)fluoranthene	0.000		0	N.D.	
32) Benzo(b+k)fluoranthene	0.000		0	N.D.	
34) Benzo(e)pyrene	18.130	252	318	N.D.	
35) Benzo(a)pyrene	0.000		0	N.D.	
36) Perylene	18.130	252	350	N.D.	
38) Indeno(1,2,3-cd)Pyrene	20.514	276	58	N.D.	
39) Dibenz(a,h)anthracene	0.000		0	N.D.	
40) Benzo(g,h,i)perylene	0.000		0	N.D.	

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

Data Path : U:\data\2020-01\0A31025\
Data File : N01312003.D
Acq On : 31 Jan 2020 11:18
Operator : JK/ AMS/ DTH
Sample : 0A31025-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:43:34 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312004.D
Acq On : 31 Jan 2020 11:51
Operator : JK/ AMS/ DTH
Sample : 0010978-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

B02

AMS 2/3/20

Quant Time: Feb 03 08:43:37 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

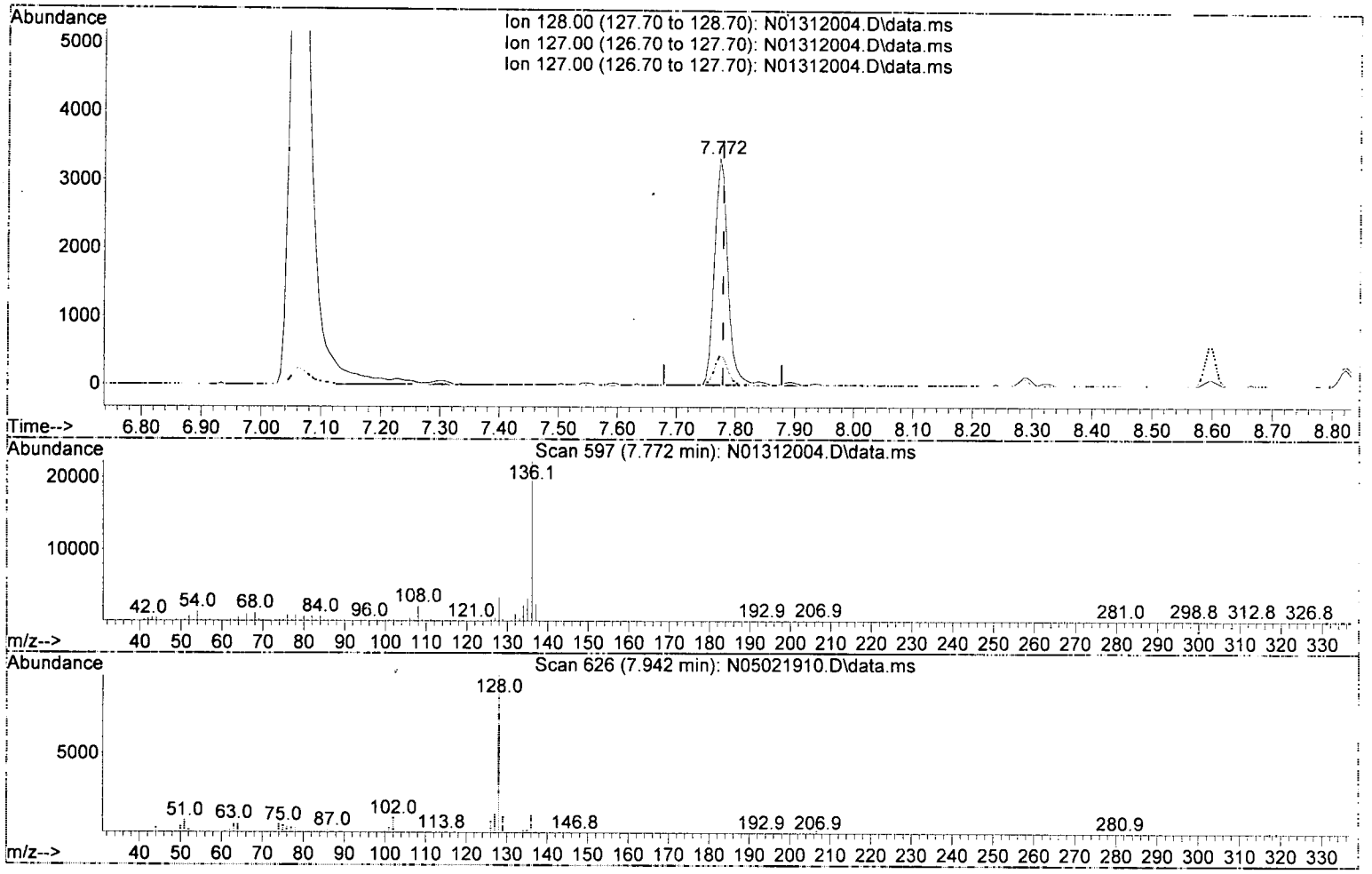
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.755	136	183426	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	110333	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	184944	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	154614	100.00 ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	144320	100.00 ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	115816	100.00 ng/ml	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.061	82	45272	74.28 ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	134860	81.93 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	3413	0.09 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	129984	79.94 ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.772	128	5224	2.58 ng/ml	99 B02
5) 2-Methylnaphthalene	8.466	142	589	N.D.	
6) 1-Methylnaphthalene	8.559	142	346	N.D.	
7) 1,1'-Biphenyl	8.926	154	524	N.D.	
8) 2,6-Dimethylnaphthalene	9.090	156	168	N.D.	
12) Acenaphthylene	9.364	152	101	N.D.	
13) Acenaphthene	9.538	153	305	N.D.	
14) Dibenzofuran	9.719	168	68	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.946	170	97	N.D.	
16) Fluorene	10.063	166	158	N.D.	
18) Dibenzothiopene	10.908	184	54	N.D.	
19) Phenanthrene	11.036	178	656	N.D.	
20) Anthracene	11.089	178	127	N.D.	
21) Carbazole	11.194	167	77	N.D.	
22) 1-Methylphenanthrene	11.643	192	92	N.D.	
23) Fluoranthene	12.290	202	336	N.D.	
25) Pyrene	12.563	202	369	N.D.	
27) Benz(a)anthracene	14.662	228	521	N.D.	
28) Chrysene	14.726	228	240	N.D.	
30) Benzo(b)fluoranthene	0.000		0	N.D.	
31) Benzo(k)fluoranthene	0.000		0	N.D.	
32) Benzo(b+k)fluoranthene	0.000		0	N.D.	
34) Benzo(e)pyrene	18.130	252	387	N.D.	
35) Benzo(a)pyrene	0.000		0	N.D.	
36) Perylene	18.130	252	485	N.D.	
38) Indeno(1,2,3-cd)Pyrene	20.525	276	108	N.D.	
39) Dibenz(a,h)anthracene	20.578	278	106	N.D.	
40) Benzo(g,h,i)perylene	21.062	276	103	N.D.	

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312004.D
Acq On : 31 Jan 2020 11:51
Operator : JK/ AMS/ DTH
Sample : 0010978-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:43:37 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N01312004.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 2.58 ng/ml

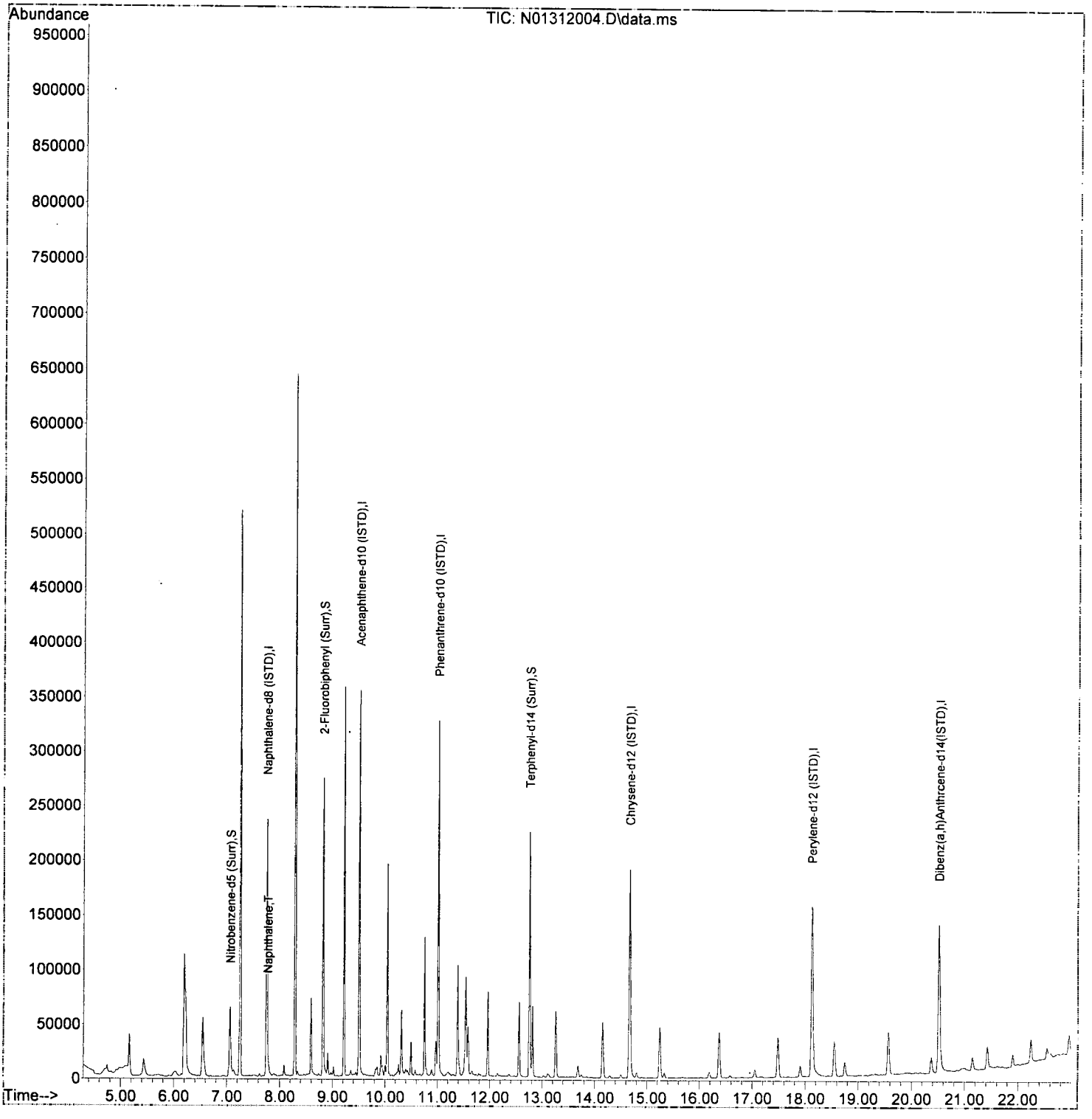
response 5224

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.84
127.00	12.60	12.84
0.00	0.00	0.00

B07

Data Path : U:\data\2020-01\0A31025\
Data File : N01312004.D
Acq On : 31 Jan 2020 11:51
Operator : JK/ AMS/ DTH
Sample : 0010978-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:43:37 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312005.D
Acq On : 31 Jan 2020 12:23
Operator : JK/ AMS/ DTH
Sample : 0010978-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/3/20

Quant Time: Feb 03 08:43:40 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

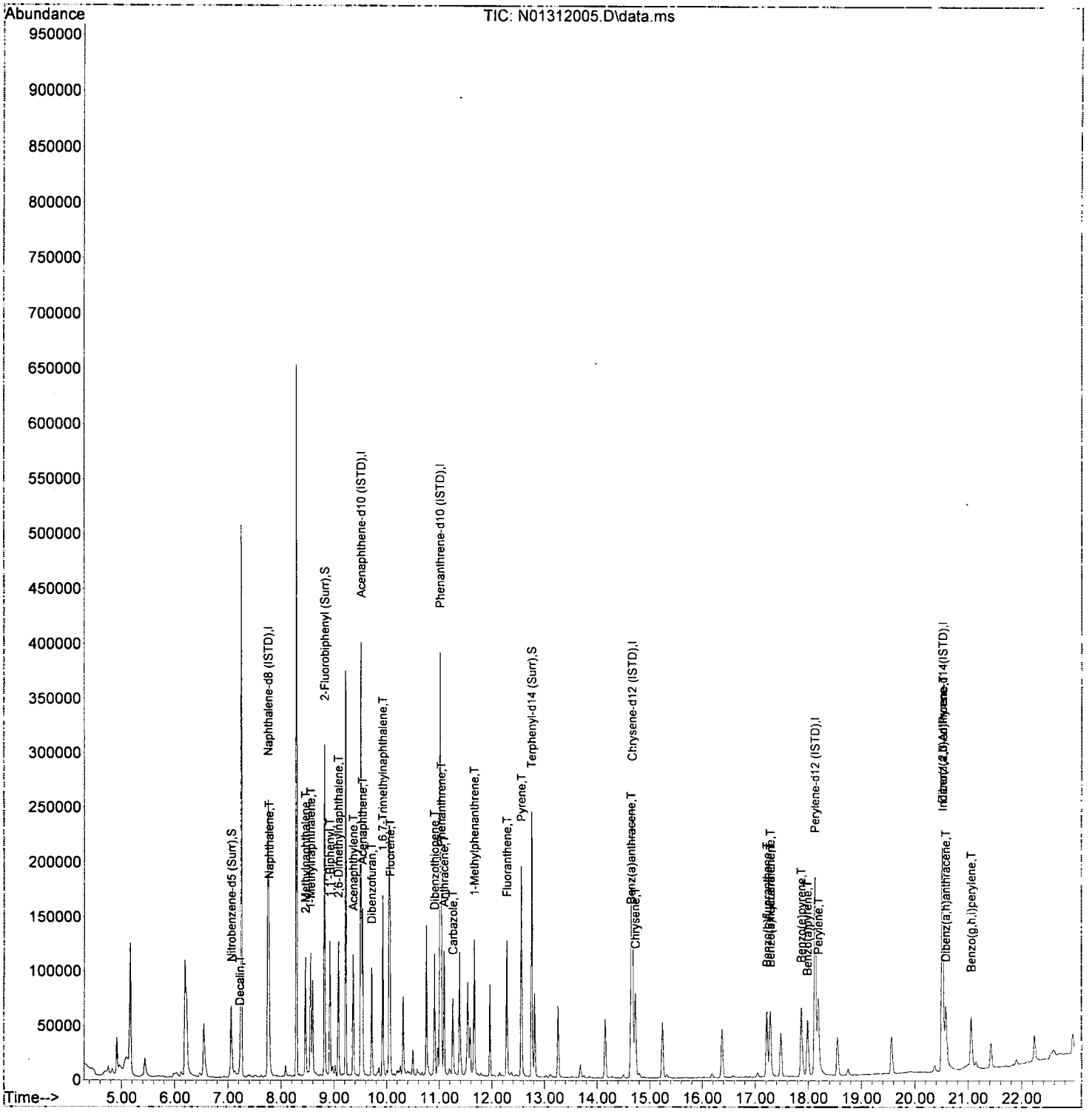
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	187524	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	121301	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	209717	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	180691	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	170376	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	136996	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	45723	73.38	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	144809	80.02	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	3588	0.02	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	140682	74.03	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.224	138	2120	15.18	ng/ml	93
4) Naphthalene	7.772	128	77742	37.59	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	49360	28.16	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	48207	27.51	ng/ml	98
7) 1,1'-Biphenyl	8.921	154	60939	25.85	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.084	156	43796	25.44	ng/ml	98
12) Acenaphthylene	9.364	152	73848	28.04	ng/ml	99
13) Acenaphthene	9.538	153	55076	31.93	ng/ml	100
14) Dibenzofuran	9.713	168	66438	30.75	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.923	170	43864	30.32	ng/ml	95
16) Fluorene	10.063	166	53600	30.37	ng/ml	99
18) Dibenzothiopene	10.908	184	66903	30.50	ng/ml	97
19) Phenanthrene	11.036	178	86813	35.38	ng/ml	99
20) Anthracene	11.089	178	68841	30.16	ng/ml	99
21) Carbazole	11.258	167	50143	27.15	ng/ml	99
22) 1-Methylphenanthrene	11.666	192	53126	31.16	ng/ml	98
23) Fluoranthene	12.284	202	82250	33.27	ng/ml	96
25) Pyrene	12.558	202	83303	29.51	ng/ml	99
27) Benz(a)anthracene	14.644	228	58704	27.98	ng/ml	99
28) Chrysene	14.726	228	61865	31.16	ng/ml	99
30) Benzo(b)fluoranthene	17.221	252	56489	28.73	ng/ml	91
31) Benzo(k)fluoranthene	17.285	252	57547	29.73	ng/ml	92
32) Benzo(b+k)fluoranthene	17.285	252	120122	59.74	ng/ml	92
34) Benzo(e)pyrene	17.867	252	57819	29.09	ng/ml	98
35) Benzo(a)pyrene	17.984	252	48568	28.86	ng/ml	96
36) Perylene	18.188	252	62960	30.38	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.520	276	50227	29.73	ng/ml	80
39) Dibenz(a,h)anthracene	20.578	278	46683	29.41	ng/ml	84
40) Benzo(g,h,i)perylene	21.056	276	52766	29.44	ng/ml	99

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

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312005.D
Acq On : 31 Jan 2020 12:23
Operator : JK/ AMS/ DTH
Sample : 0010978-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:43:40 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312014.D
Acq On : 31 Jan 2020 17:18
Operator : JK/ AMS/ DTH
Sample : 0010978-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/3/20

Quant Time: Feb 03 08:44:08 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

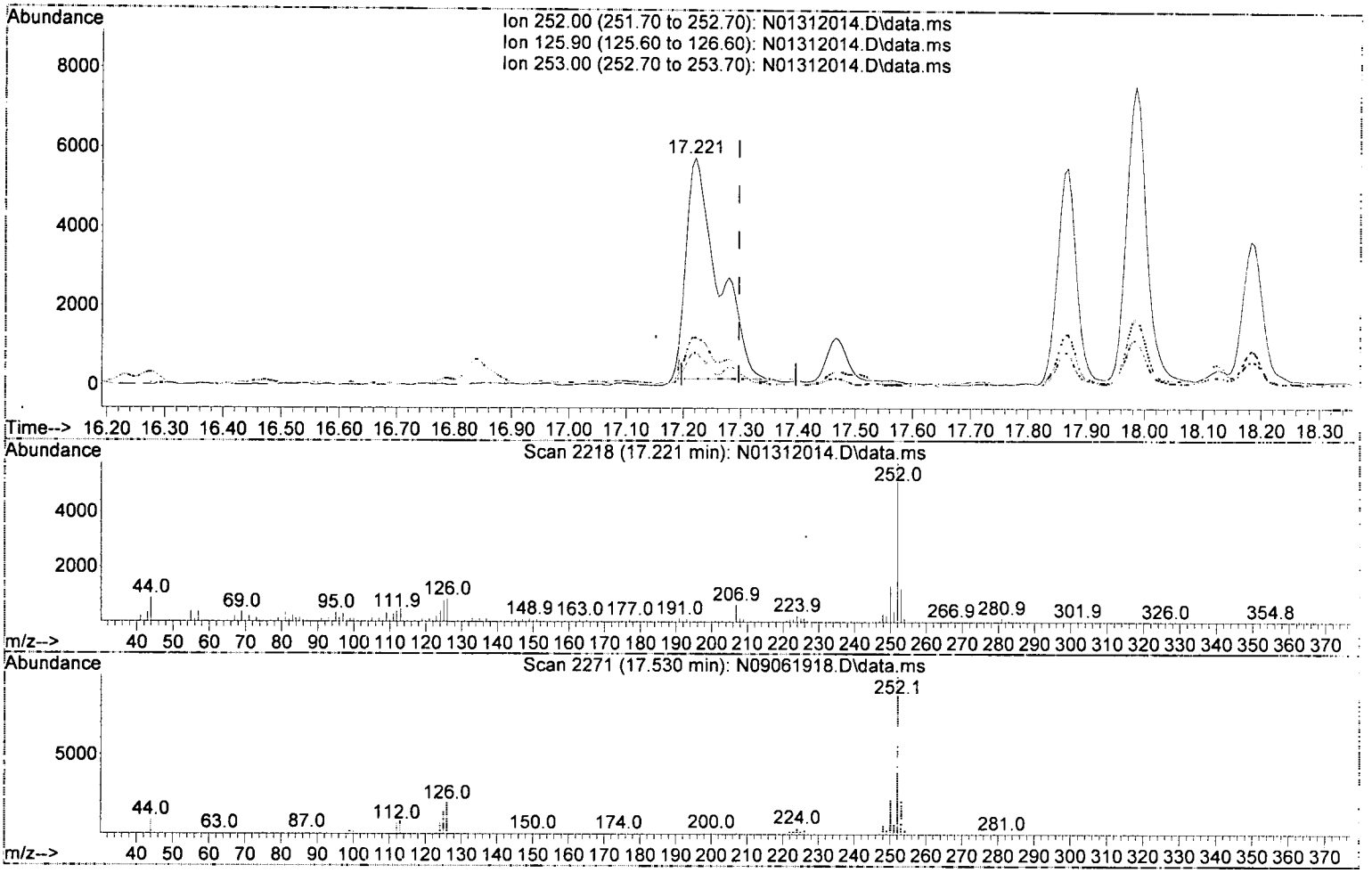
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	162859	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	115112	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	209807	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	184390	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	186430	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	145959	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.079	82	314	0.58	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.822	172	1197	0.70	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	5465	0.92	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	1212	0.62	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.772	128	7945	4.42	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	2342	1.54	ng/ml	95
6) 1-Methylnaphthalene	8.559	142	2066	1.36	ng/ml	89
7) 1,1'-Biphenyl	8.926	154	1628	0.80	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.090	156	1187	0.79	ng/ml	96
12) Acenaphthylene	9.364	152	4603	1.84	ng/ml	97
13) Acenaphthene	9.538	153	7565	4.62	ng/ml	100
14) Dibenzofuran	9.719	168	1371	0.67	ng/ml	85
15) 1,6,7-Trimethylnaphtha...	9.929	170	779	0.57	ng/ml	90
16) Fluorene	10.063	166	3754	2.24	ng/ml	95
18) Dibenzothiopene	10.908	184	4780	2.18	ng/ml	94
19) Phenanthrene	11.036	178	47646	19.41	ng/ml	99
20) Anthracene	11.089	178	8793	3.85	ng/ml	99
21) Carbazole	11.258	167	732	N.D.		
22) 1-Methylphenanthrene	11.660	192	2459	1.44	ng/ml	82
23) Fluoranthene	12.284	202	55555	22.46	ng/ml	96
25) Pyrene	12.558	202	79253	27.51	ng/ml	100
27) Benz(a)anthracene	14.644	228	12694	5.93	ng/ml#	32
28) Chrysene	14.720	228	15361	7.58	ng/ml	96
30) Benzo(b)fluoranthene	17.221	252	17216	8.00	ng/ml	94
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~21486~~	~~10.14~~	~~ng/ml~~	~~91~~ MI
32) Benzo(b+k)fluoranthene	17.221	252	24777	11.26	ng/ml	91
34) Benzo(e)pyrene	17.868	252	12612	5.80	ng/ml	98
35) Benzo(a)pyrene	17.984	252	17499	9.50	ng/ml	97
36) Perylene	18.182	252	9527	4.20	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.514	276	14470	8.04	ng/ml	82
39) Dibenz(a,h)anthracene	20.578	278	1476	0.87	ng/ml	92
40) Benzo(g,h,i)perylene	21.050	276	20178	10.57	ng/ml	96

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312014.D
Acq On : 31 Jan 2020 17:18
Operator : JK/ AMS/ DTH
Sample : 0010978-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:44:08 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N01312014.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.221min (-0.076) 10.14 ng/ml

response 21486

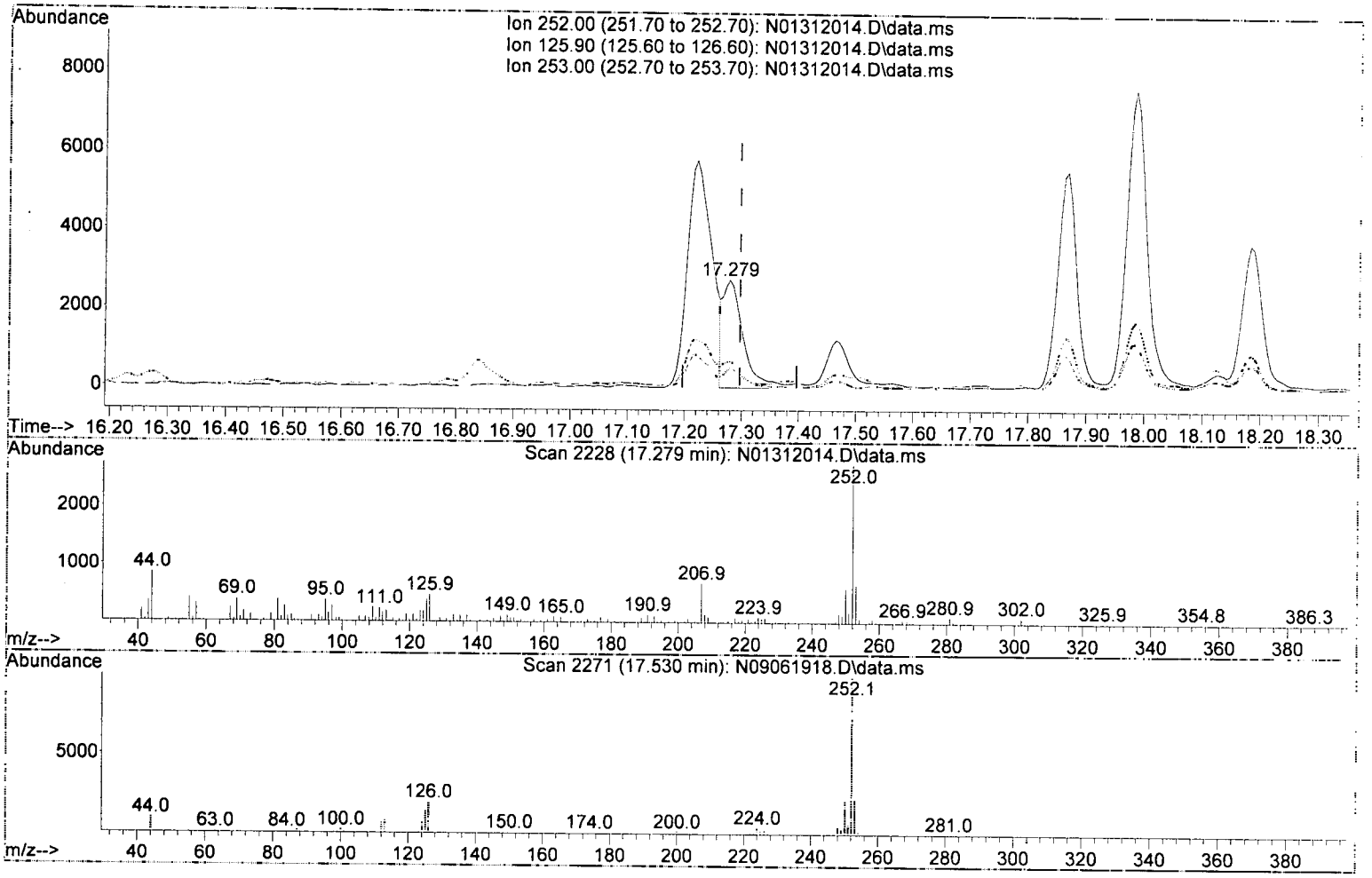
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.47
253.00	21.50	21.11
0.00	0.00	0.00

AMS 2/3/20

Quantitation Report (Qedit)

Data Path : U:\data\2020-01\0A31025\
Data File : N01312014.D
Acq On : 31 Jan 2020 17:18
Operator : JK/ AMS/ DTH
Sample : 0010978-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:44:08 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N01312014.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 3.08 ng/ml m

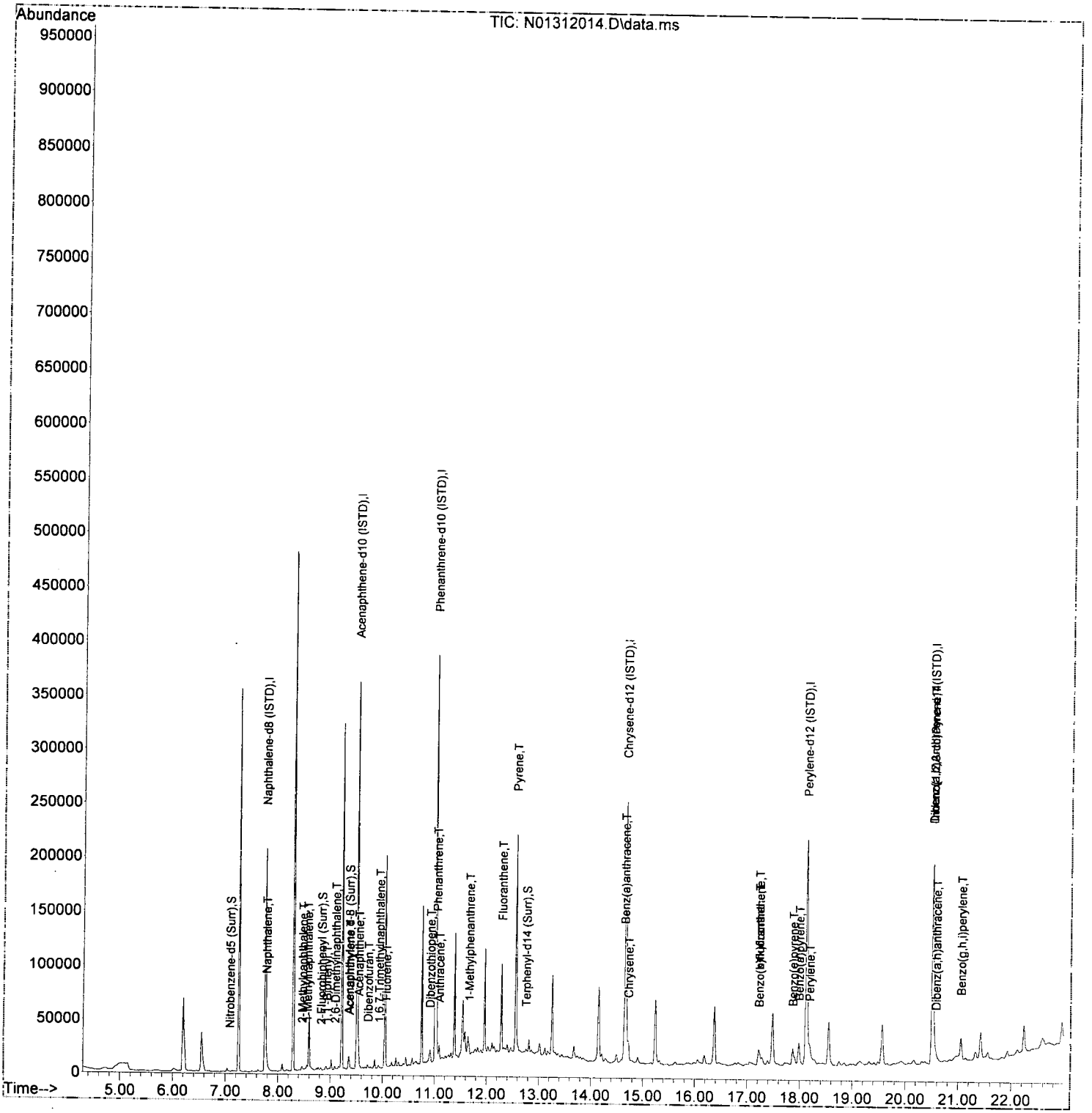
response 6516

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	17.44
253.00	21.50	24.24
0.00	0.00	0.00

AMS 2/3/20

Data Path : U:\data\2020-01\0A31025\
Data File : N01312014.D
Acq On : 31 Jan 2020 17:18
Operator : JK/ AMS/ DTH
Sample : 0010978-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 03 08:44:08 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Batch 0020080
Sequence 0B04047(A0A1011-04,05,06)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020080 (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	pH Other	pH >11
	0020080-BLK1		QC	02/04/20 11:07	11	5				100					
	0020080-BS1		QC	02/04/20 11:07	10	5	A20B016		100	100					
	A0A0996-01RE2	A	8270D LL PAH Only (Scan)	02/04/20 11:07	10.36	5				100	PDI-015SC-A-09-10-191012	Surr failure			
	0020080-DUP1		QC	02/04/20 11:07	10.34	5		A0A0996-01RE2		100					
	A0A1011-04	A	8270D LL PAH Only (Scan)	02/04/20 10:35	10.11	5				100	PDI-062SC-A-08-09-191023				
	A0A1011-05	A	8270D LL PAH Only (Scan)	02/04/20 10:35	10.5	5				100	PDI-062SC-A-09-10-191023				
	0020080-MS1		QC	02/04/20 11:07	10.48	5	A20B016	A0A1011-05	100	100					
	0020080-MSD1		QC	02/04/20 11:07	10.45	5	A20B016	A0A1011-05	100	100					
	A0A1011-06	A	8270D LL PAH Only (Scan)	02/04/20 10:35	10.4	5				100	PDI-062SC-A-10-11-191023				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A20B016	08/01/20	LVI PAH Spike @2000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: _____ Date

Reviewed By: AMS Date 2/5/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020080 (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	pH other	pH >11
10	0020080-BLK1		QC	02/04/20 10:35	~~10~~ 11	5				100					
11	0020080-BS1		QC	02/04/20 10:35	10	5	~~A20A345~~ A20B016 JAG 2/4/20		100	100					
12	A0A0996-01RE2	A	8270D LL PAH Only (Scan)	02/04/20 11:07	~~10~~ 10.36	5				100	PDI-015SC-A-09-10-191012	Surr failure mud			
13	0020080-DUP1		QC	02/04/20 10:35	~~10~~ 10.34	5		A0A0996-01RE2		100		mud			
14	A0A1011-04	A	8270D LL PAH Only (Scan)	02/04/20 10:35	~~10~~ 10.11	5				100	PDI-062SC-A-08-09-191023	mud			
15	A0A1011-05	A	8270D LL PAH Only (Scan)	02/04/20 10:35	~~10~~ 10.50	5	JAG 2/4/20 A20B016			100	PDI-062SC-A-09-10-191023	sand, odor			
16	0020080-MS1		QC	02/04/20 10:35	~~10~~ 10.48	5	~~A20A345~~	A0A1011-05	100	100		Sand, odor			
17	0020080-MSD1		QC	02/04/20 11:07	~~10~~ 10.45	5	~~A20A345~~	A0A1011-05	100	100		Sand, odor			
18	A0A1011-06	A	8270D LL PAH Only (Scan)	02/04/20 10:35	~~10~~ 10.40	5	~~A20A345~~ A20B016 JAG 2/4/20			100	PDI-062SC-A-10-11-191023	Sand, odor			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A20A281	07/19/21	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
~~A20A345~~ A20B016	~~07/26/20~~ 08/01/20	~~8270D PAH+/Phenols (JSCS) Spike @ 80 PPM~~

JAG

Surrogate(s)

Std ID	Exp. Date	Description
A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)

JAG

Method 3546 digestion time and temperture achieved.

Initial: JAG

Witness: CAH 02/04/20

JAG 2/4/20
Prepared By: Date

CAH 02/04/20

AMS 2/5/20
Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B04047** Instrument: **SV-GCMS14**

Date: **02/04/20 13:36** Calibration: **A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B04047-TUN1	Sediment	QC	QC			A19K048	A20A236
2	0B04047-CCV1	Sediment	QC	QC			A19K048	A19K012
3	0B04047-CCB1	Sediment	QC	QC			A19K048	
4	0020080-BLK1	Sediment	QC	QC		0020080	A19K048	
5	0020080-BS1	Sediment	QC	QC		0020080	A19K048	
6	A0A0996-01RE2	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0020080	A19K048	
7	0020080-DUP1	Sediment	QC	QC		0020080	A19K048	
8	A0A1011-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0020080	A19K048	
9	A0A1011-05	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0020080	A19K048	
10	0020080-MS1	Sediment	QC	QC		0020080	A19K048	
11	0020080-MSD1	Sediment	QC	QC		0020080	A19K048	
12	A0A1011-06	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/13/20	0020080	A19K048	
13	0B04047-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: AMS 2/5/20

Data Reviewed By: 2/5/20

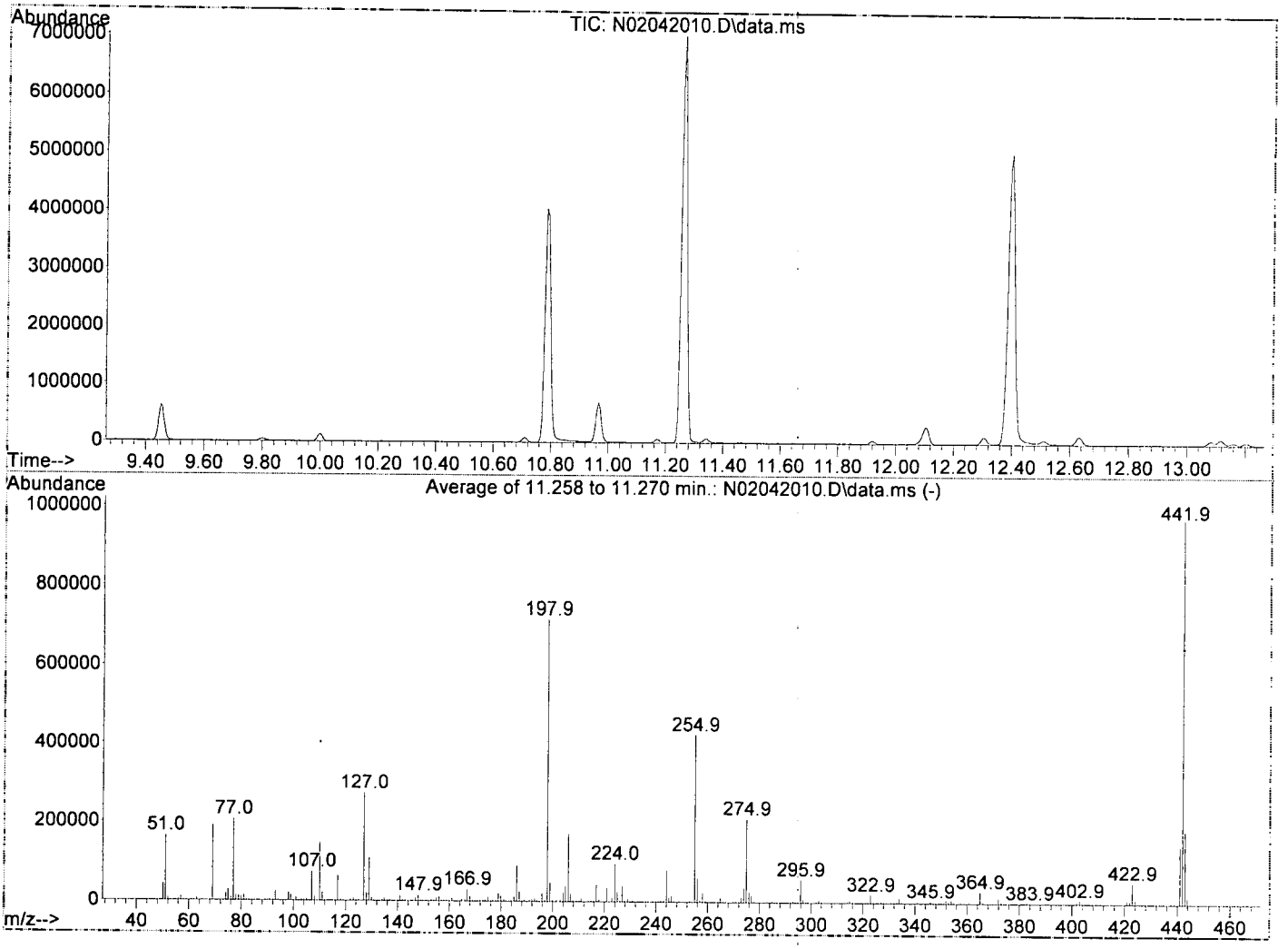
Comments:

Data Path : U:\data\2020-02\0B04047\
Data File : N02042010.D
Acq On : 04 Feb 2020 13:43
Operator : JK/ AMS/ DTH
Sample : 0B04047-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Tue Feb 04 07:34:06 2020

AMS 2/4/20



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.7	3262	PASS
69	69	100	100	100.0	192343	PASS
70	69	0.00	2	0.5	941	PASS
197	198	0.00	2	0.5	3876	PASS
198	198	100	100	100.0	716800	PASS
199	198	5	9	6.8	48837	PASS
365	198	1	100	4.1	29613	PASS
441	443	0.01	150	78.2	145832	PASS
442	198	0.10	200	135.7	972885	PASS
443	442	15	24	19.2	186581	PASS

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042010.D
Acq On : 04 Feb 2020 13:43
Operator : JK/ AMS/ DTH
Sample : 0B04047-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 15:33:24 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14

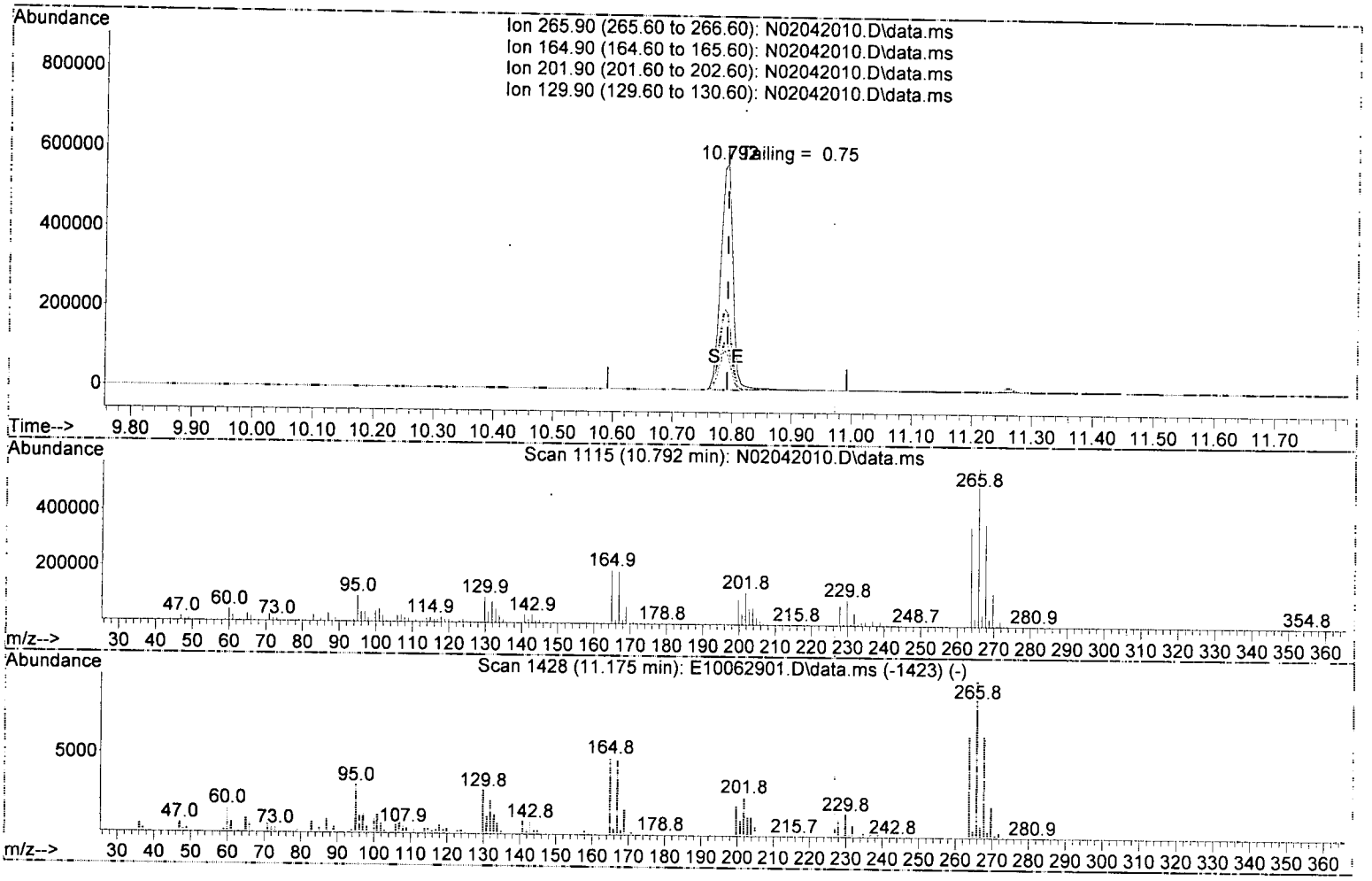
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.490	150	116988	2.00	ug/mL	0.00
2) Naphthalene-d8	7.691	136	344908	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.451	162	192362	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.966	188	355287	2.00	ug/mL	0.00
11) Chrysene-d12	14.569	240	293285	2.00	ug/mL	0.00
12) Perylene-d12	16.673	264	276082	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.850	292	257997	2.00	ug/mL	#-0.01
Target Compounds						Qvalue
4) Pentachlorophenol	10.792	266	790194	43.50	ug/mL	80
6) DFTPP	11.264	442	1462863	51.00	ug/mL	76
7) Benzidine	12.400	184	3629197	28.71	ug/mL	97
8) 4,4-DDE	12.633	TIC	207169	No Calib		
9) 4,4-DDD	13.117	TIC	135058	No Calib		
10) 4,4-DDT	13.642	TIC	12249438	33.62	ug/mL	95

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042010.D
Acq On : 04 Feb 2020 13:43
Operator : JK/ AMS/ DTH
Sample : 0B04047-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 15:33:24 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042010.D\data.ms

(4) Pentachlorophenol

10.792min (+ 0.000) 43.50 ug/mL

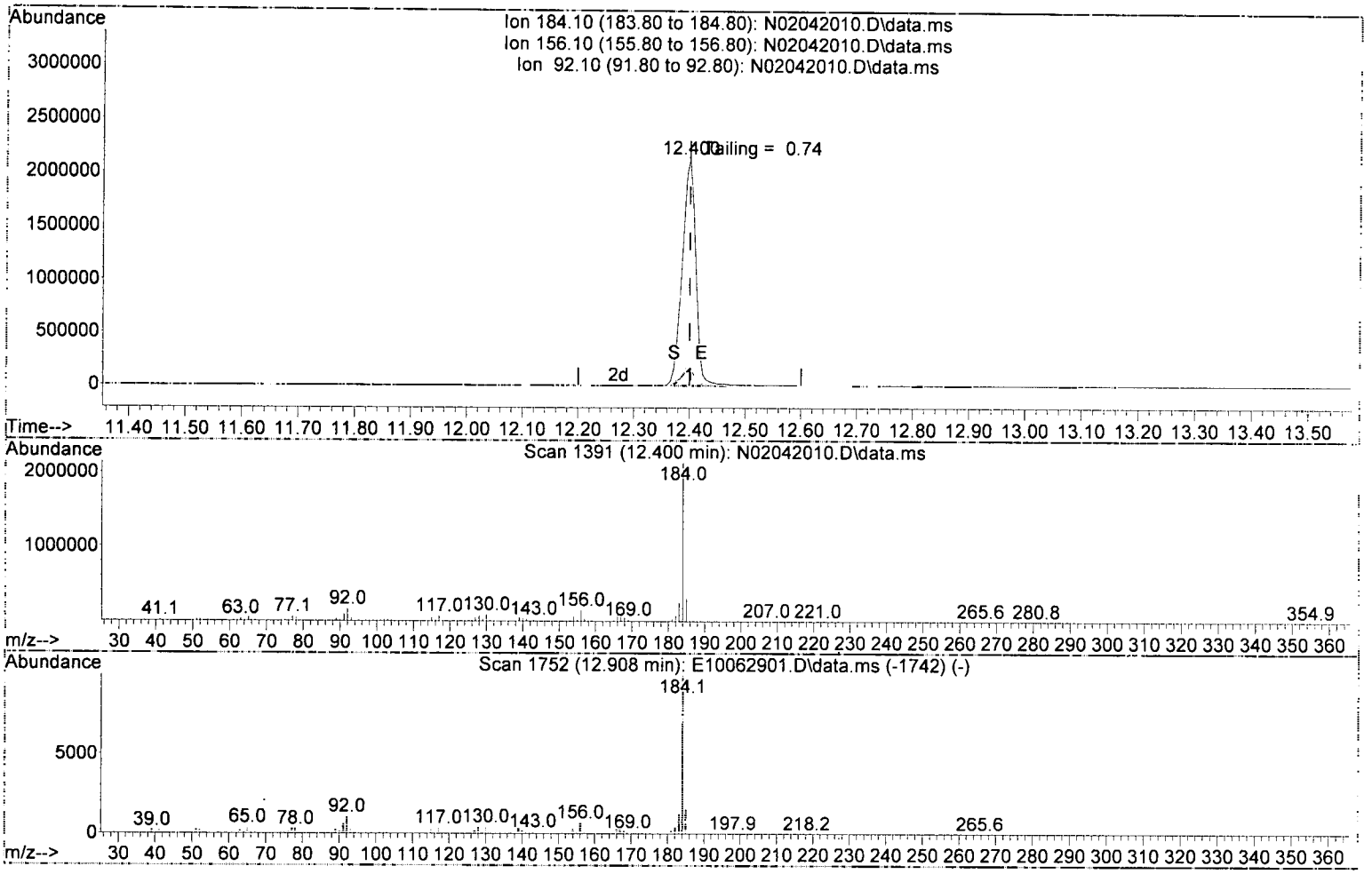
response 790194

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	33.80
201.90	25.80	20.46
129.90	27.30	16.08

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042010.D
Acq On : 04 Feb 2020 13:43
Operator : JK/ AMS/ DTH
Sample : 0B04047-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 15:33:24 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042010.D\data.ms

(7) Benzidine

12.400min (+ 0.000) 28.71 ug/mL

response 3629197

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.98
92.10	8.20	7.62
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

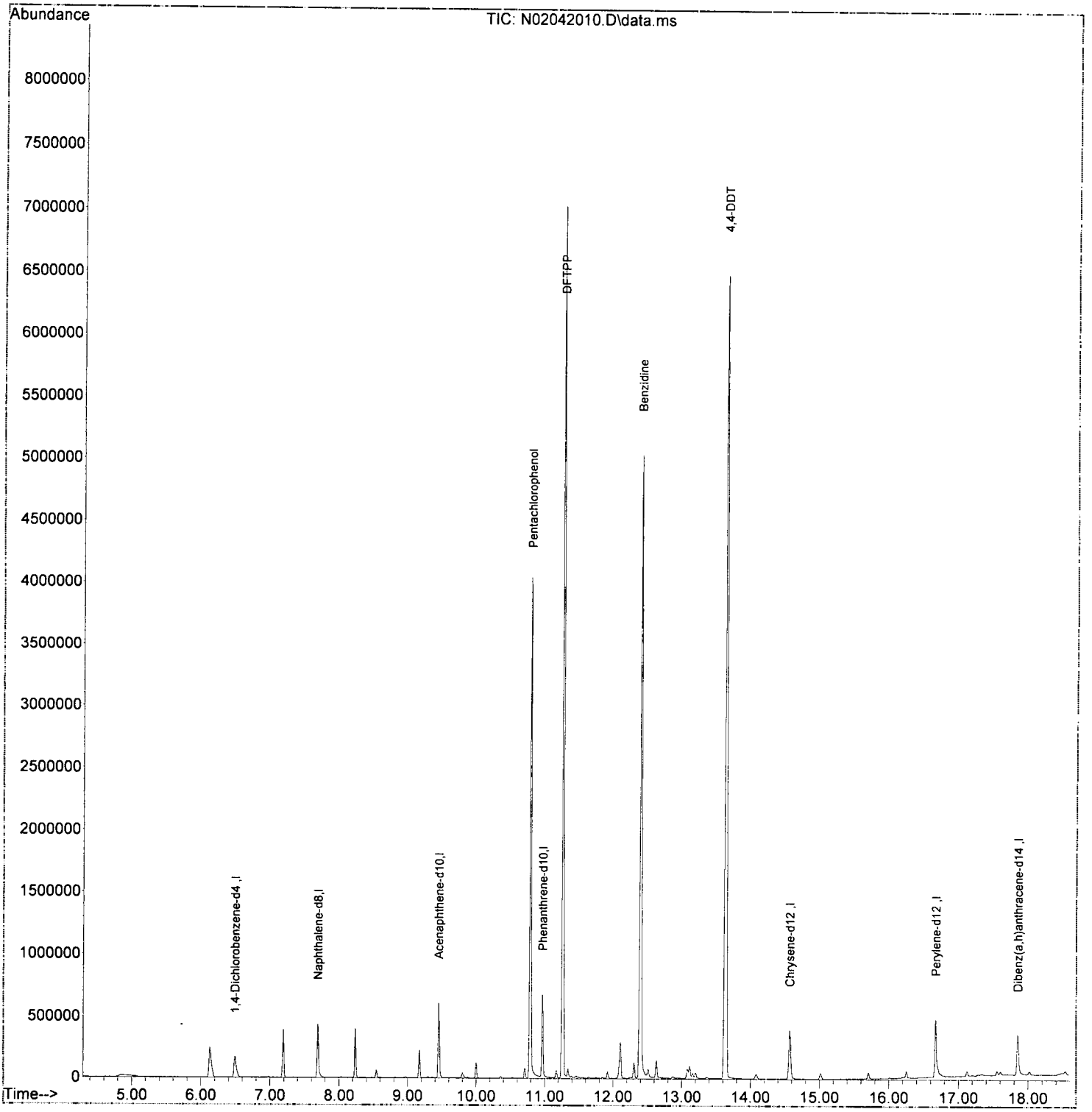
From:
0B04047-TUN1
SV-GCMS14

First Column Area Counts		Percent Breakdown	
DDE	207169		
DDD	135058		
DDT	1224438	2.72	PASS

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2020-02\0B04047\
Data File : N02042010.D
Acq On : 04 Feb 2020 13:43
Operator : JK/ AMS/ DTH
Sample : 0B04047-TUN1
Misc : 1x, A20A236 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 04 15:33:24 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2020-02\0B04047\
Data File : N02042011.D
Acq On : 04 Feb 2020 14:10
Operator : JK/ AMS/ DTH
Sample : 0B04047-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/4/20

Quant Time: Feb 04 15:34:48 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

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	122	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	43.509	13.0	109	0.00
3	T	Decalin	50.000	44.516	11.0	108	0.00
4	T	Naphthalene	50.000	48.676	2.6	121	0.00
5	T	2-Methylnaphthalene	50.000	41.319	17.4	100	0.00
6	T	1-Methylnaphthalene	50.000	40.352	19.3	96	-0.01
7	T	1,1'-Biphenyl	50.000	38.254	23.5#	93	0.00
8	T	2,6-Dimethylnaphthalene	50.000	38.789	22.4#	92	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	95	-0.01
10	S	2-Fluorobiphenyl (Surr)	50.000	50.767	-1.5	97	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	0.272	99.5#	3	-0.01
12	T	Acenaphthylene	50.000	46.595	6.8	89	0.00
13	T	Acenaphthene	50.000	47.908	4.2	93	0.00
14	T	Dibenzofuran	50.000	47.709	4.6	91	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	46.994	6.0	91	0.00
16	T	Fluorene	50.000	46.596	6.8	89	-0.01
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	93	0.00
18	T	Dibenzothiopene	50.000	47.750	4.5	90	0.00
19	T	Phenanthrene	50.000	46.743	6.5	89	0.00
20	T	Anthracene	50.000	46.090	7.8	87	0.00
21	T	Carbazole	50.000	41.088	17.8	78	-0.01
22	T	1-Methylphenanthrene	50.000	49.152	1.7	93	-0.01
23	T	Fluoranthene	50.000	47.948	4.1	90	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	94	-0.02
25	T	Pyrene	50.000	49.312	1.4	92	-0.01
26	S	Terphenyl-d14 (Surr)	50.000	47.020	6.0	89	-0.01
27	T	Benz(a)anthracene	50.000	42.900	14.2	85	-0.02
28	T	Chrysene	50.000	46.041	7.9	88	-0.02
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	101	-0.02
30	T	Benzo(b)fluoranthene	50.000	45.699	8.6	92	-0.02
31	T	Benzo(k)fluoranthene	50.000	46.273	7.5	95	-0.02
32	T	Benzo(b+k)fluoranthene	100.000	92.945	7.1	94	-0.02
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34	T	Benzo(e)pyrene	50.000	45.224	9.6	93	-0.02
35	T	Benzo(a)pyrene	50.000	46.596	6.8	93	-0.02
36	T	Perylene	50.000	48.012	4.0	97	-0.02
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	131	-0.02
38	T	Indeno(1,2,3-cd)Pyrene	50.000	43.142	13.7	114	-0.02
39	T	Dibenz(a,h)anthracene	50.000	45.845	8.3	122	-0.02
40	T	Benzo(g,h,i)perylene	50.000	42.971	14.1	111	-0.02

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

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042011.D
Acq On : 04 Feb 2020 14:10
Operator : JK/ AMS/ DTH
Sample : 0B04047-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

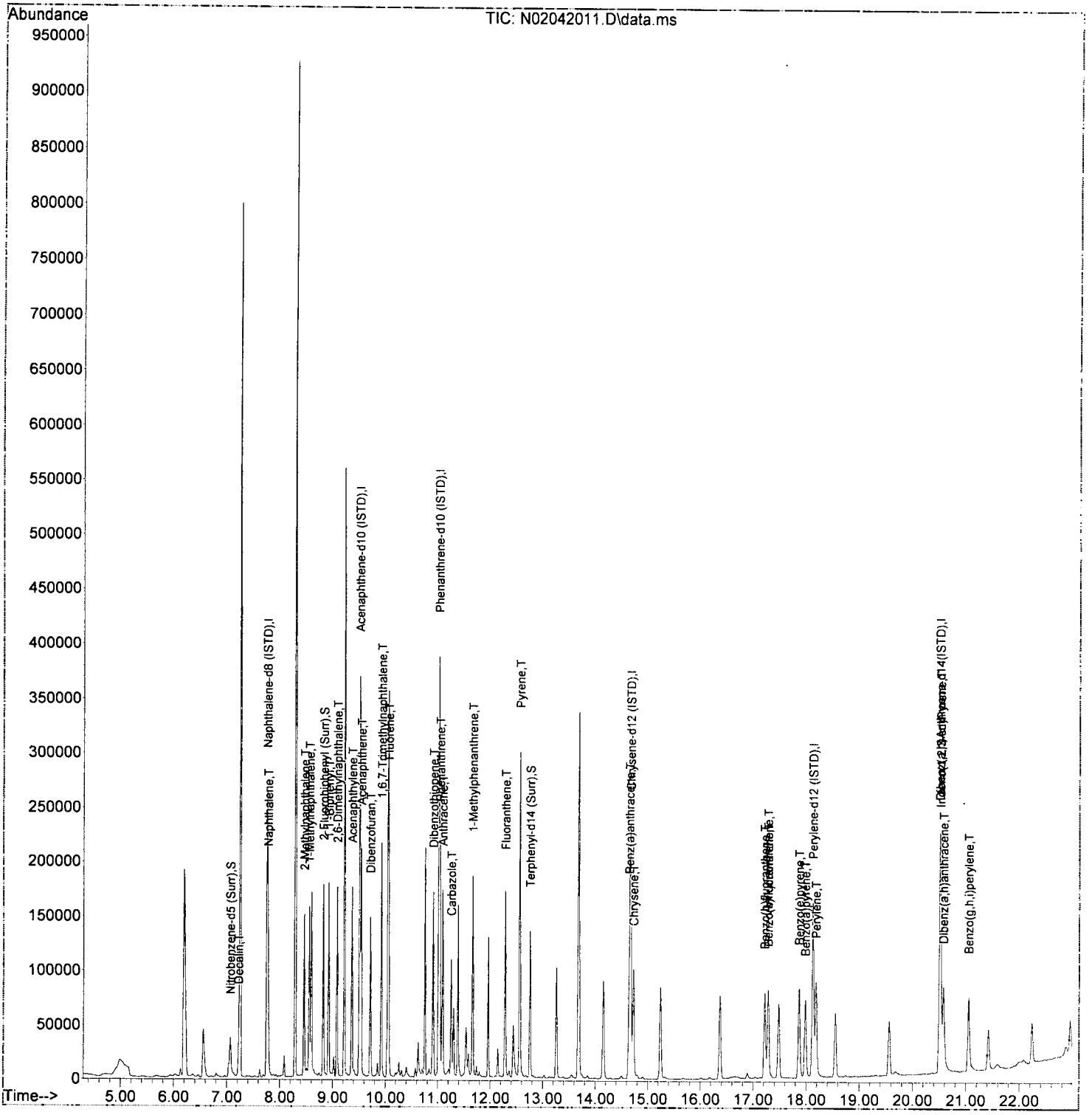
Quant Time: Feb 04 15:34:48 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	181183	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	112110	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	204970	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	159617	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	144093	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	121986	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.067	82	26195	43.51	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	84908	50.77	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	3880	0.27	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	78934	47.02	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.225	138	6005	44.52	ng/ml	87
4) Naphthalene	7.773	128	97269	48.68	ng/ml	98
5) 2-Methylnaphthalene	8.460	142	69968	41.32	ng/ml	97
6) 1-Methylnaphthalene	8.554	142	68318	40.35	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	87123	38.25	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.084	156	64517	38.79	ng/ml	97
12) Acenaphthylene	9.364	152	113406	46.59	ng/ml	99
13) Acenaphthene	9.539	153	76373	47.91	ng/ml	99
14) Dibenzofuran	9.713	168	95264	47.71	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.923	170	62829	46.99	ng/ml	99
16) Fluorene	10.057	166	76012	46.60	ng/ml	99
18) Dibenzothiopene	10.908	184	102364	47.75	ng/ml	96
19) Phenanthrene	11.037	178	112114	46.74	ng/ml	99
20) Anthracene	11.089	178	102826	46.09	ng/ml	100
21) Carbazole	11.252	167	74173	41.09	ng/ml	98
22) 1-Methylphenanthrene	11.660	192	81896	49.15	ng/ml	99
23) Fluoranthene	12.284	202	115869	47.95	ng/ml	95
25) Pyrene	12.558	202	122972	49.31	ng/ml	99
27) Benz(a)anthracene	14.644	228	79502	42.90	ng/ml	99
28) Chrysene	14.726	228	80743	46.04	ng/ml	99
30) Benzo(b)fluoranthene	17.215	252	75983	45.70	ng/ml	92
31) Benzo(k)fluoranthene	17.279	252	75750	46.27	ng/ml	92
32) Benzo(b+k)fluoranthene	17.279	252	158069	92.94	ng/ml	92
34) Benzo(e)pyrene	17.868	252	76032	45.22	ng/ml	98
35) Benzo(a)pyrene	17.984	252	66312	46.60	ng/ml	97
36) Perylene	18.182	252	84156	48.01	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	64905	43.14	ng/ml	77
39) Dibenz(a,h)anthracene	20.578	278	64808	45.84	ng/ml	82
40) Benzo(g,h,i)perylene	21.050	276	68580	42.97	ng/ml	98

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

Data Path : U:\data\2020-02\0B04047\
Data File : N02042011.D
Acq On : 04 Feb 2020 14:10
Operator : JK/ AMS/ DTH
Sample : 0B04047-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 15:34:48 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042012.D
Acq On : 04 Feb 2020 14:42
Operator : JK/ AMS/ DTH
Sample : 0B04047-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/4/20

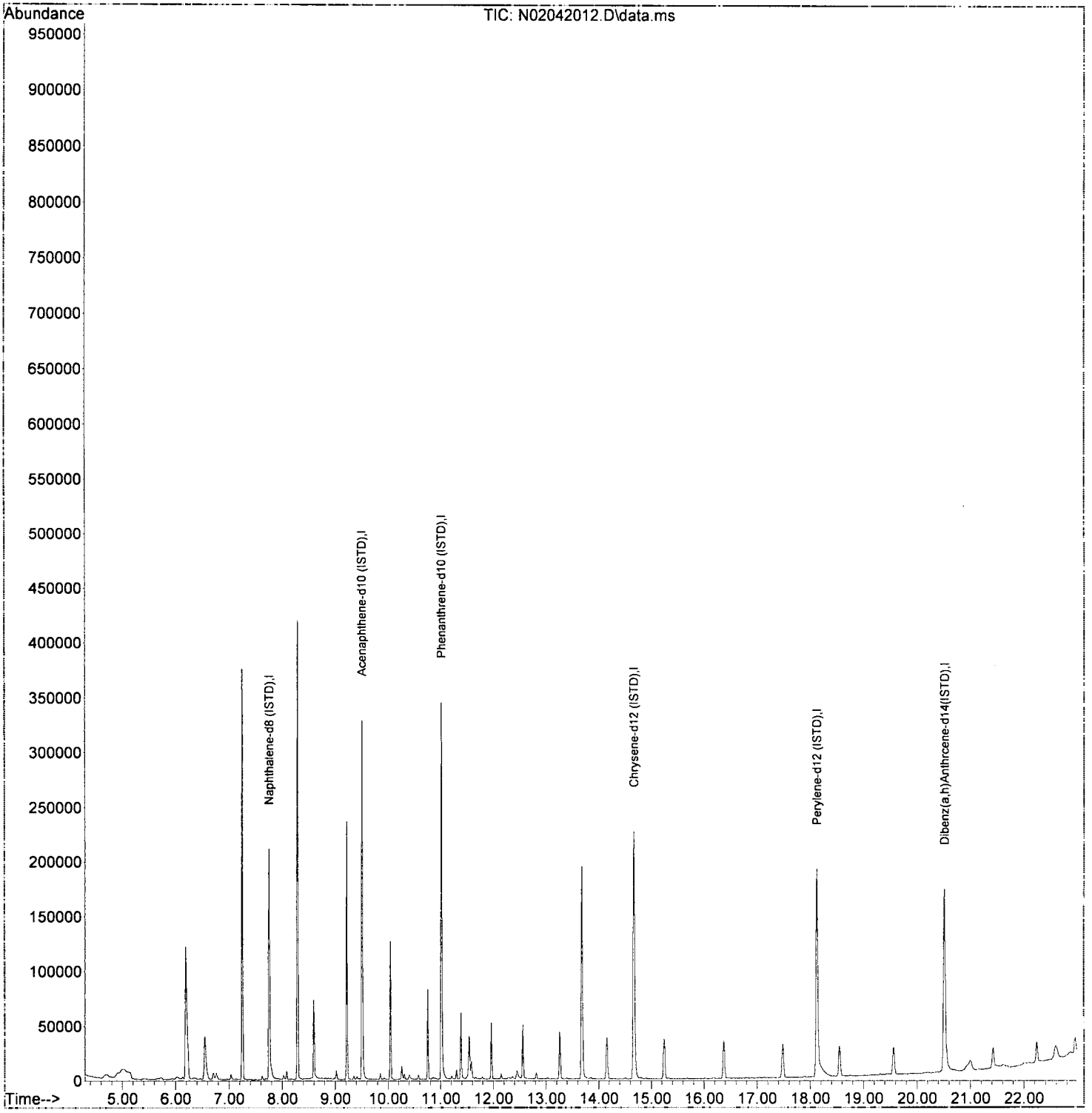
Quant Time: Feb 04 15:35:05 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	168371	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	109873	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	202009	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	182643	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	174072	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	149451	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.352	160	2300	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.784	128	279	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	8.932	154	103	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	0.000		0	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	10.908	184	50	N.D.		
19) Phenanthrene	11.036	178	219	N.D.		
20) Anthracene	11.095	178	62	N.D.		
21) Carbazole	11.299	167	94	N.D.		
22) 1-Methylphenanthrene	0.000		0	N.D.		
23) Fluoranthene	12.289	202	57	N.D.		
25) Pyrene	0.000		0	N.D.		
27) Benz(a)anthracene	14.668	228	410	N.D.		
28) Chrysene	14.726	228	65	N.D.		
30) Benzo(b)fluoranthene	0.000		0	N.D.		
31) Benzo(k)fluoranthene	0.000		0	N.D.		
32) Benzo(b+k)fluoranthene	0.000		0	N.D.		
34) Benzo(e)pyrene	18.124	252	435	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.188	252	65	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.514	276	135	N.D.		
39) Dibenz(a,h)anthracene	0.000		0	N.D.		
40) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Data Path : U:\data\2020-02\0B04047\
Data File : N02042012.D
Acq On : 04 Feb 2020 14:42
Operator : JK/ AMS/ DTH
Sample : 0B04047-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 04 15:35:05 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042013.D
Acq On : 04 Feb 2020 15:14
Operator : JK/ AMS/ DTH
Sample : 0020080-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/5/20

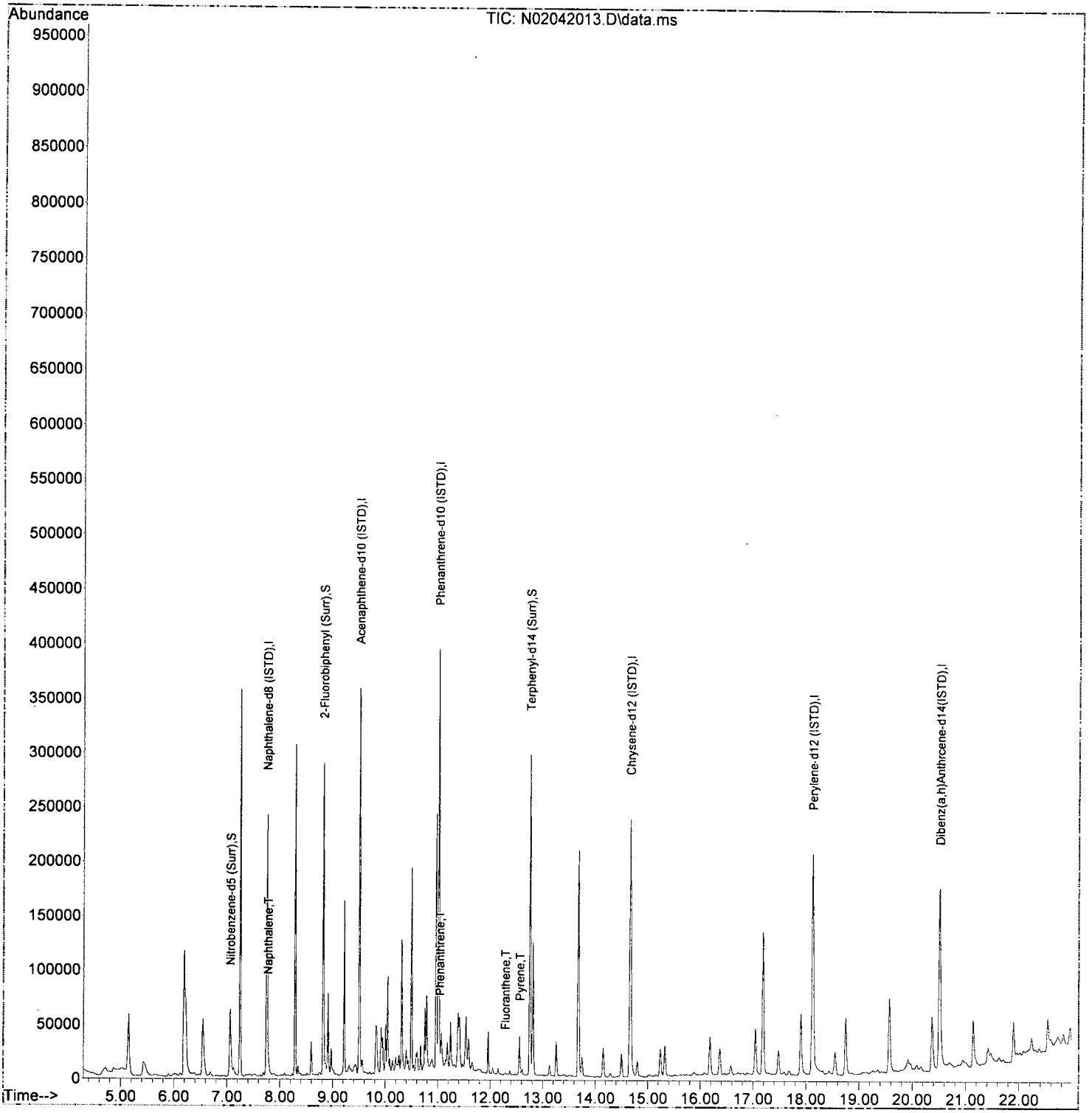
Quant Time: Feb 05 08:47:12 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	182803	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	113469	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	212849	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	189224	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	182897	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	156891	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	44789	73.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	141710	83.71	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2571	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	170858	85.85	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.773	128	3897	1.93	ng/ml	93
5) 2-Methylnaphthalene	8.460	142	605	N.D.		
6) 1-Methylnaphthalene	8.559	142	357	N.D.		
7) 1,1'-Biphenyl	8.921	154	719	N.D.		
8) 2,6-Dimethylnaphthalene	9.090	156	231	N.D.		
12) Acenaphthylene	9.364	152	193	N.D.		
13) Acenaphthene	9.539	153	466	N.D.		
14) Dibenzofuran	9.719	168	201	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	10.063	166	287	N.D.		
18) Dibenzothiopene	10.908	184	289	N.D.		
19) Phenanthrene	11.037	178	2946	1.18	ng/ml	98
20) Anthracene	11.089	178	576	N.D.		
21) Carbazole	11.264	167	201	N.D.		
22) 1-Methylphenanthrene	11.666	192	209	N.D.		
23) Fluoranthene	12.284	202	1511	0.60	ng/ml	98
25) Pyrene	12.564	202	1659	0.56	ng/ml	95
27) Benz(a)anthracene	14.662	228	797	N.D.		
28) Chrysene	14.732	228	720	N.D.		
30) Benzo(b)fluoranthene	17.227	252	572	N.D.		
31) Benzo(k)fluoranthene	17.285	252	208	N.D.		
32) Benzo(b+k)fluoranthene	17.227	252	780	N.D.		
34) Benzo(e)pyrene	17.868	252	491	N.D.		
35) Benzo(a)pyrene	17.984	252	312	N.D.		
36) Perylene	18.188	252	107	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.514	276	451	N.D.		
39) Dibenz(a,h)anthracene	20.572	278	52	N.D.		
40) Benzo(g,h,i)perylene	21.062	276	479	N.D.		

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

Data Path : U:\data\2020-02\0B04047\
Data File : N02042013.D
Acq On : 04 Feb 2020 15:14
Operator : JK/ AMS/ DTH
Sample : 0020080-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:12 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042014.D
Acq On : 04 Feb 2020 15:46
Operator : JK/ AMS/ DTH
Sample : 0020080-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/5/20

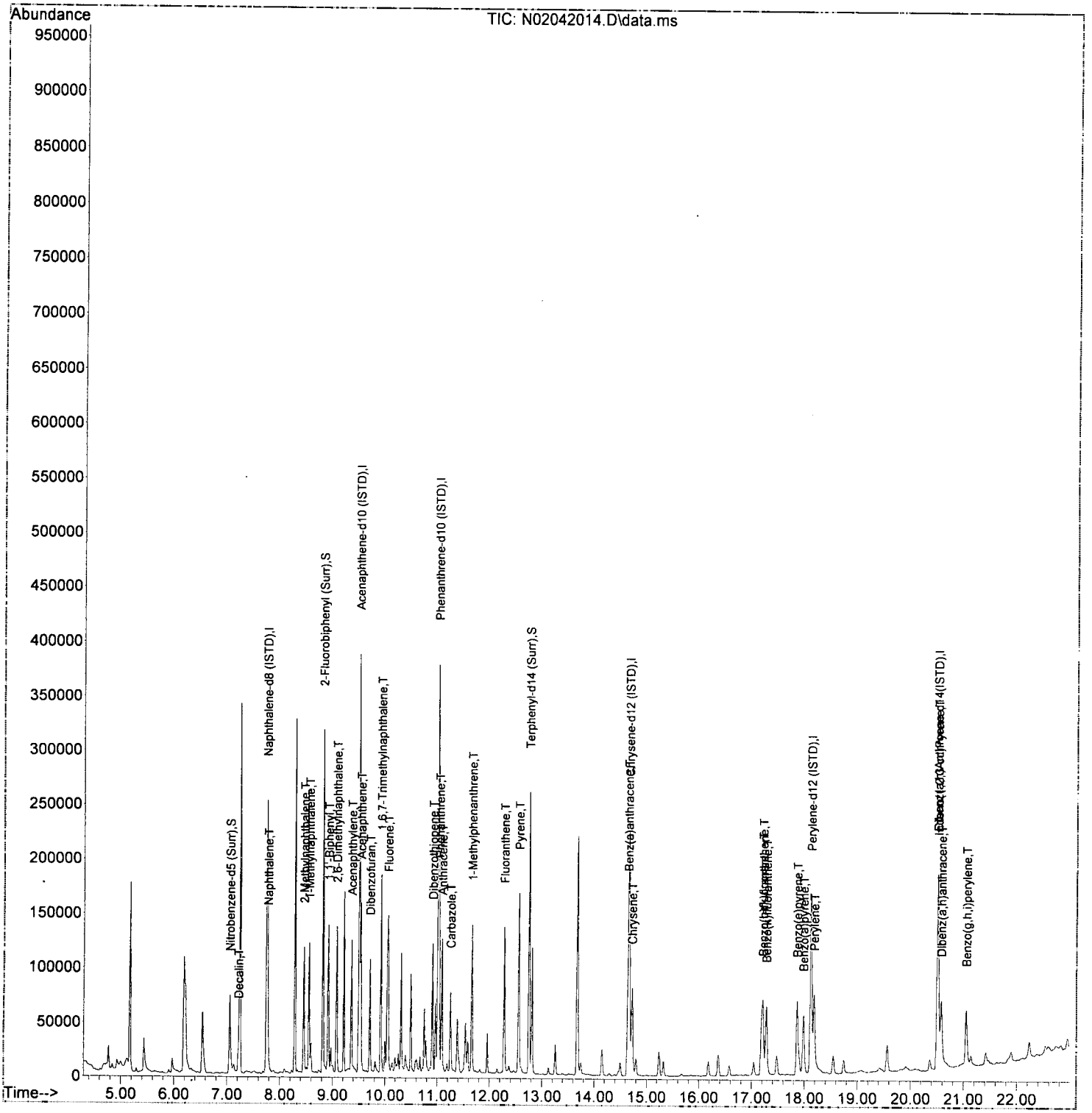
Quant Time: Feb 05 08:47:15 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.749	136	181782	100.00	ng/ml	-0.01
9) Acenaphthene-d10 (ISTD)	9.504	162	116488	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	206699	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.662	240	164464	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	153351	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	125372	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	47494	78.63	ng/ml	-0.01
10) 2-Fluorobiphenyl (Surr)	8.816	172	154903	89.14	ng/ml	-0.01
11) Acenaphthylene d-8 (Surr)	9.346	160	1440	-1.00	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	152975	88.44	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.219	138	4067	30.05	ng/ml	89
4) Naphthalene	7.772	128	72830	36.33	ng/ml	99
5) 2-Methylnaphthalene	8.454	142	52598	30.96	ng/ml	98
6) 1-Methylnaphthalene	8.553	142	51369	30.24	ng/ml	98
7) 1,1'-Biphenyl	8.921	154	67044	29.34	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.078	156	48763	29.22	ng/ml	99
12) Acenaphthylene	9.364	152	84356	33.36	ng/ml	99
13) Acenaphthene	9.538	153	57699	34.83	ng/ml	99
14) Dibenzofuran	9.713	168	69986	33.73	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.923	170	46696	33.61	ng/ml	98
16) Fluorene	10.057	166	57719	34.05	ng/ml	99
18) Dibenzothiopene	10.908	184	72658	33.61	ng/ml	95
19) Phenanthrene	11.036	178	84959	35.13	ng/ml	100
20) Anthracene	11.089	178	74776	33.24	ng/ml	99
21) Carbazole	11.252	167	52776	28.99	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	60678	36.11	ng/ml	99
23) Fluoranthene	12.278	202	89228	36.61	ng/ml	96
25) Pyrene	12.558	202	92600	36.04	ng/ml	99
27) Benz(a)anthracene	14.644	228	62518	32.74	ng/ml	99
28) Chrysene	14.720	228	63374	35.07	ng/ml	98
30) Benzo(b)fluoranthene	17.215	252	60822	34.37	ng/ml	93
31) Benzo(k)fluoranthene	17.279	252	59135	33.94	ng/ml	92
32) Benzo(b+k)fluoranthene	17.215	252	125634	69.41	ng/ml	91
34) Benzo(e)pyrene	17.862	252	60354	33.73	ng/ml	98
35) Benzo(a)pyrene	17.984	252	51251	33.84	ng/ml	95
36) Perylene	18.182	252	64990	34.84	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.514	276	50432	32.62	ng/ml	80
39) Dibenz(a,h)anthracene	20.578	278	48433	33.34	ng/ml	83
40) Benzo(g,h,i)perylene	21.050	276	54142	33.01	ng/ml	98

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

Data Path : U:\data\2020-02\0B04047\
Data File : N02042014.D
Acq On : 04 Feb 2020 15:46
Operator : JK/ AMS/ DTH
Sample : 0020080-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:15 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS MOS 2/5/20

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

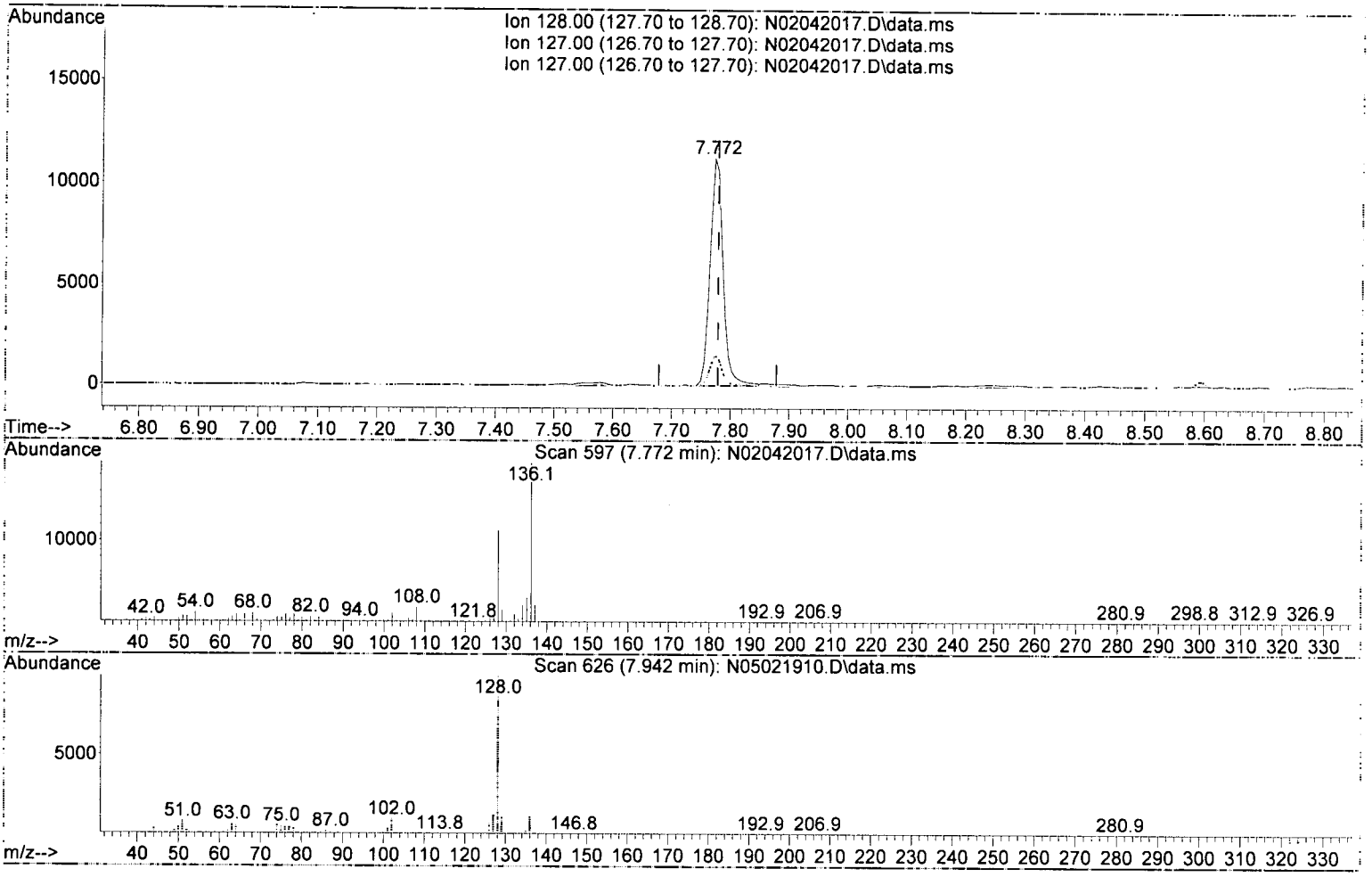
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	165768	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	103726	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	188109	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	155413	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	151173	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.508	292	121031	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.044	82	105	0.19	ng/ml	-0.02
10) 2-Fluorobiphenyl (Surr)	8.822	172	201	0.13	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.346	160	1860	-1.00	ng/ml	-0.01
26) Terphenyl-d14 (Surr)	12.756	244	324	0.20	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.772	128	17334	9.48	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	2198	1.42	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	7610	4.91	ng/ml	98
7) 1,1'-Biphenyl	8.921	154	2037	0.98	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.090	156	2323	1.53	ng/ml	95
12) Acenaphthylene	9.364	152	4377	1.94	ng/ml	94
13) Acenaphthene	9.539	153	38169	25.88	ng/ml	99
14) Dibenzofuran	9.713	168	1901	1.03	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	9.923	170	763	0.62	ng/ml	80
16) Fluorene	10.063	166	17535	11.62	ng/ml	97
18) Dibenzothiopene	10.908	184	18027	9.16	ng/ml	97
19) Phenanthrene	11.037	178	210412	95.59	ng/ml	100
20) Anthracene	11.089	178	49443	24.15	ng/ml	99
21) Carbazole	11.258	167	2907	1.75	ng/ml	96
22) 1-Methylphenanthrene	11.637	192	4993	3.27	ng/ml#	51
23) Fluoranthene	12.284	202	212850	95.97	ng/ml	95
25) Pyrene	12.558	202	273518	112.65	ng/ml	99
27) Benz(a)anthracene	14.644	228	39374	21.82	ng/ml#	34
28) Chrysene	14.726	228	49060	28.73	ng/ml	100
30) Benzo(b)fluoranthene	17.221	252	47551	27.26	ng/ml	90
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~60030~~	~~34.96~~	~~ng/ml~~	~~89~~ MI-MOS
32) Benzo(b+k)fluoranthene	17.221	252	66735	37.40	ng/ml	89
34) Benzo(e)pyrene	17.868	252	32988	18.70	ng/ml	99
35) Benzo(a)pyrene	17.984	252	49294	33.02	ng/ml	98
36) Perylene	18.182	252	15456	8.40	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.514	276	35447	23.75	ng/ml	82
39) Dibenz(a,h)anthracene	20.578	278	3234	2.31	ng/ml	92
40) Benzo(g,h,i)perylene	21.050	276	48199	30.44	ng/ml	97

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(4) Naphthalene (T)

7.772min (-0.006) 9.48 ng/ml

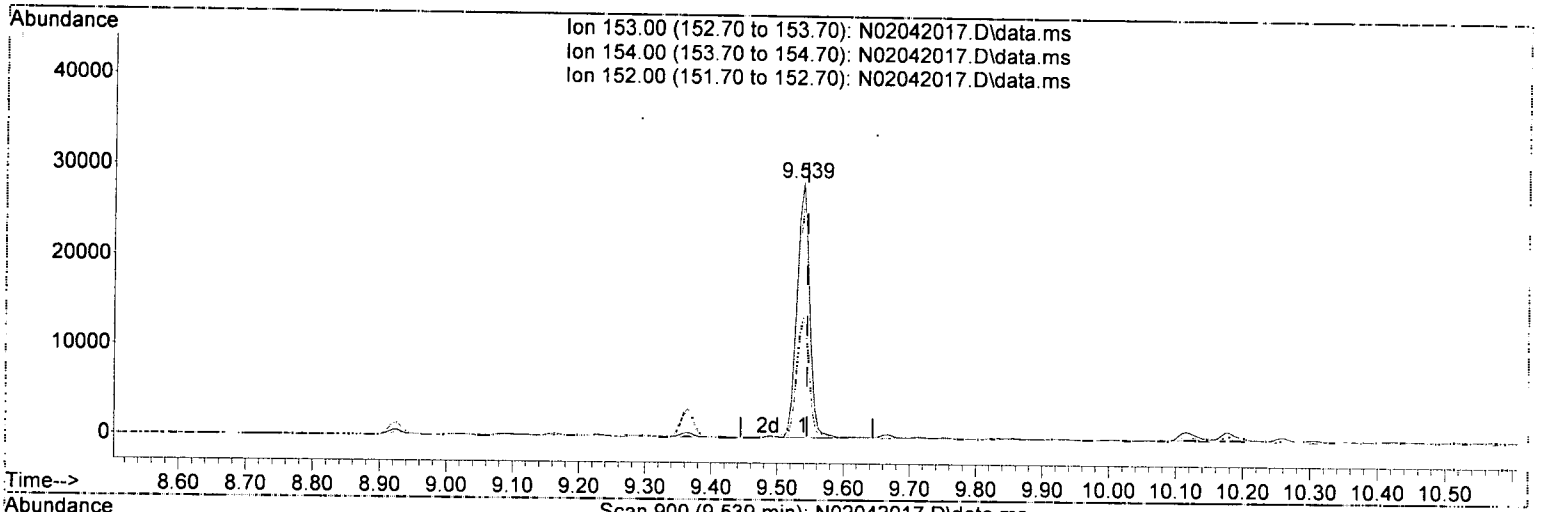
response 17334

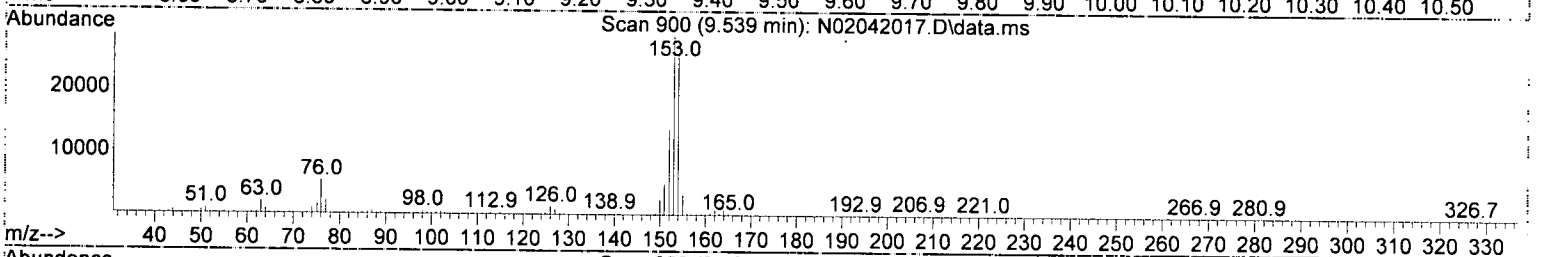
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.92
127.00	12.60	12.92
0.00	0.00	0.00

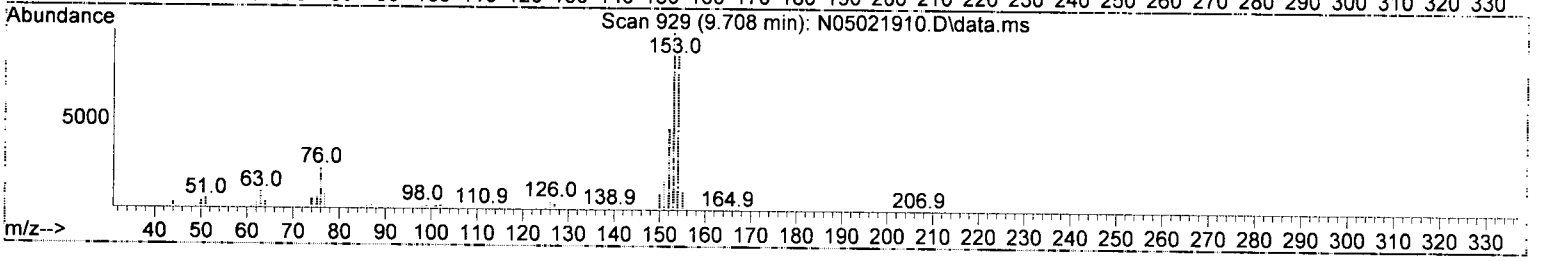
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042017.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 25.88 ng/ml

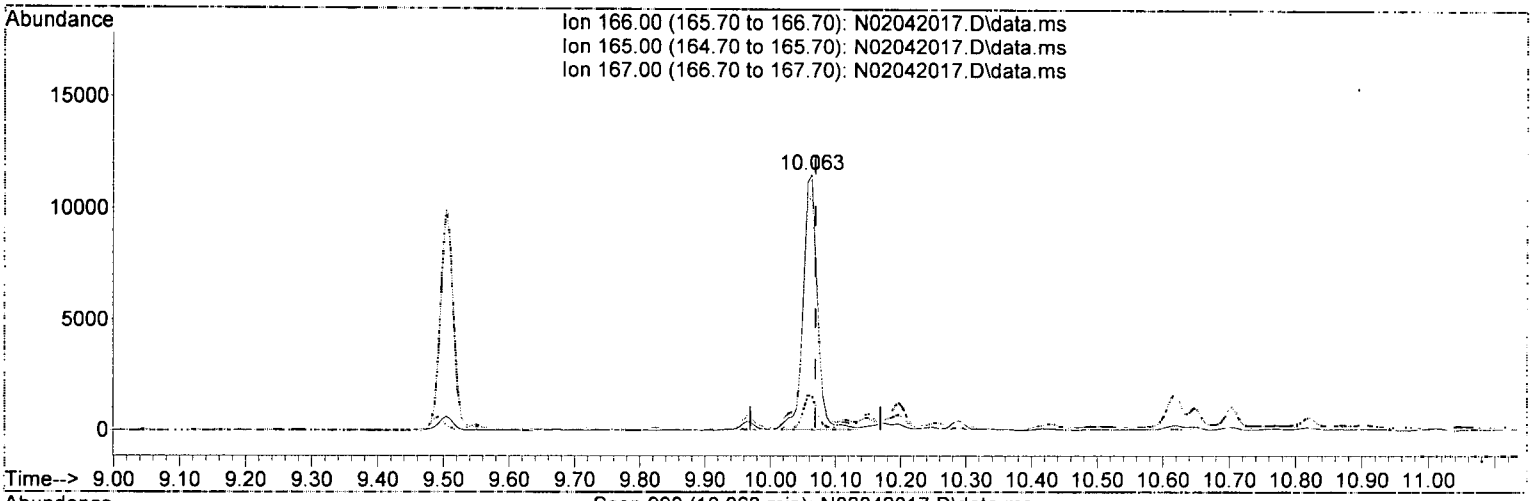
response 38169

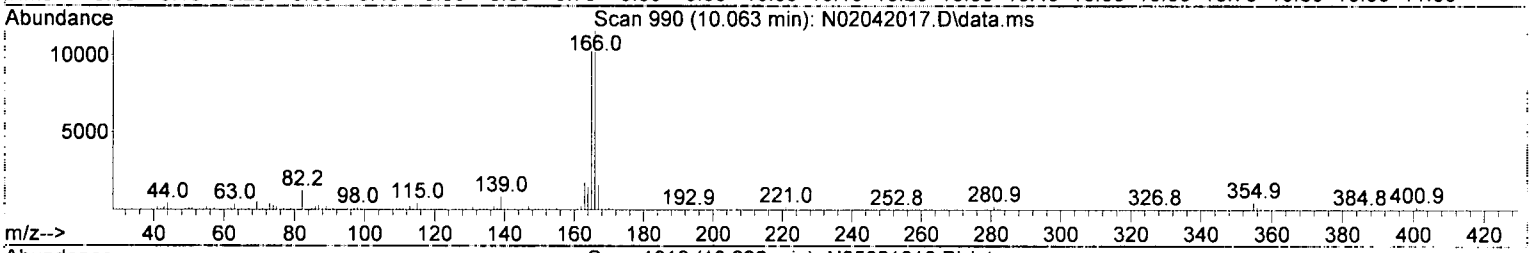
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.11
152.00	46.80	47.47
0.00	0.00	0.00

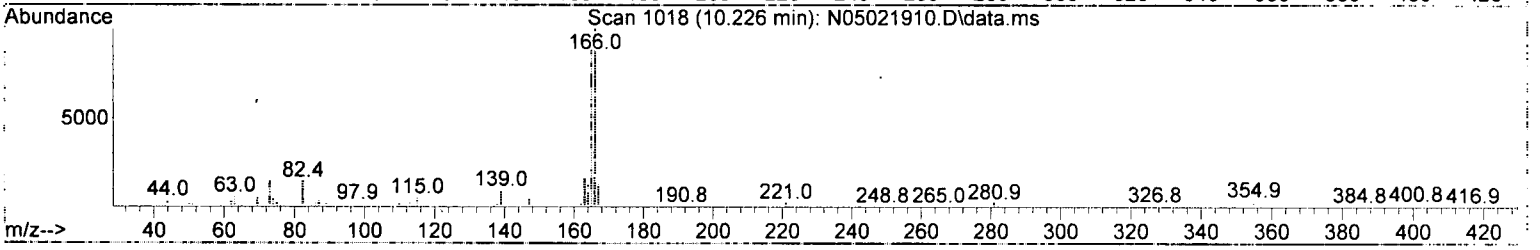
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042017.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 11.62 ng/ml

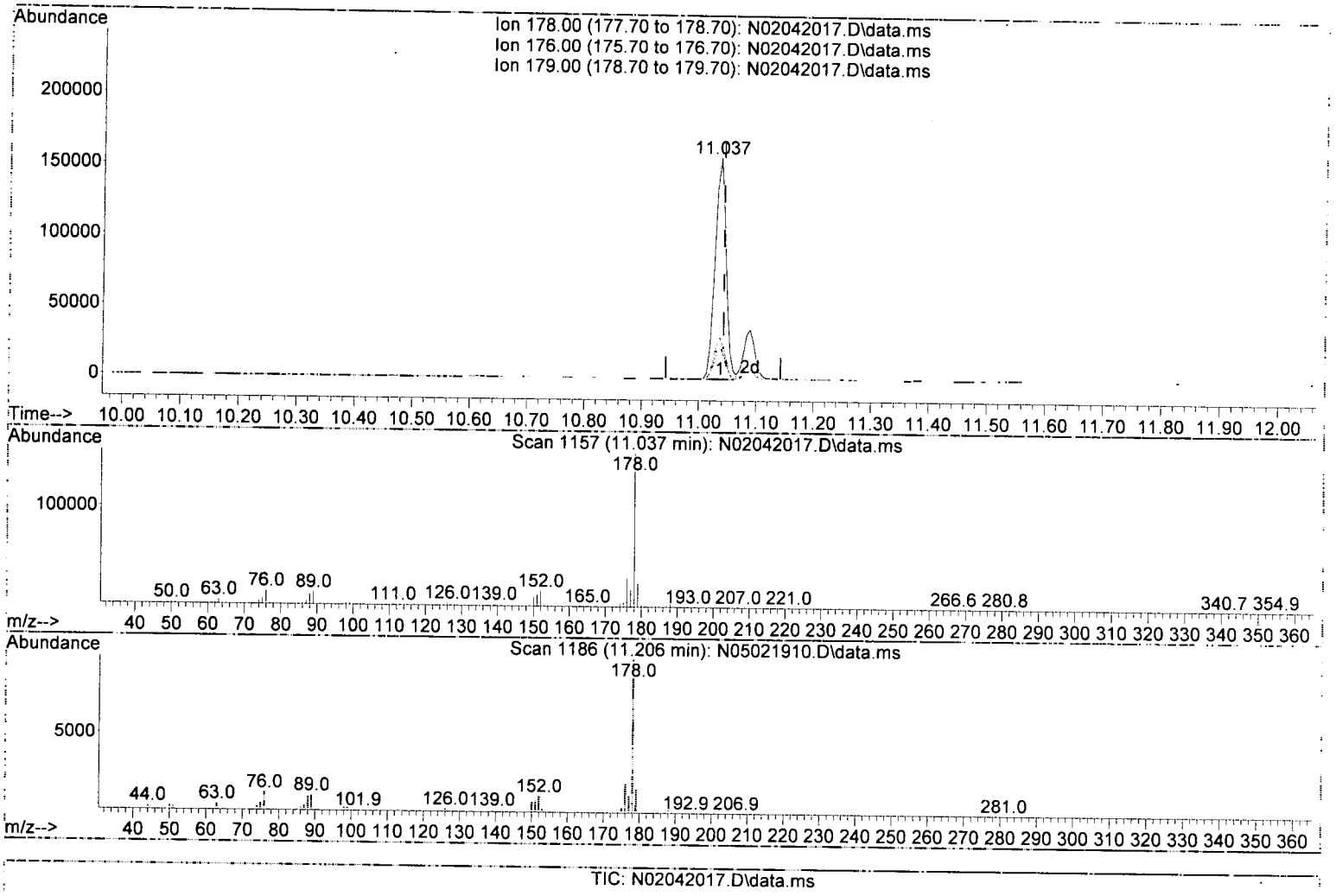
response 17535

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	92.47
167.00	13.60	13.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(19) Phenanthrene (T)

11.037min (-0.006) 95.59 ng/ml

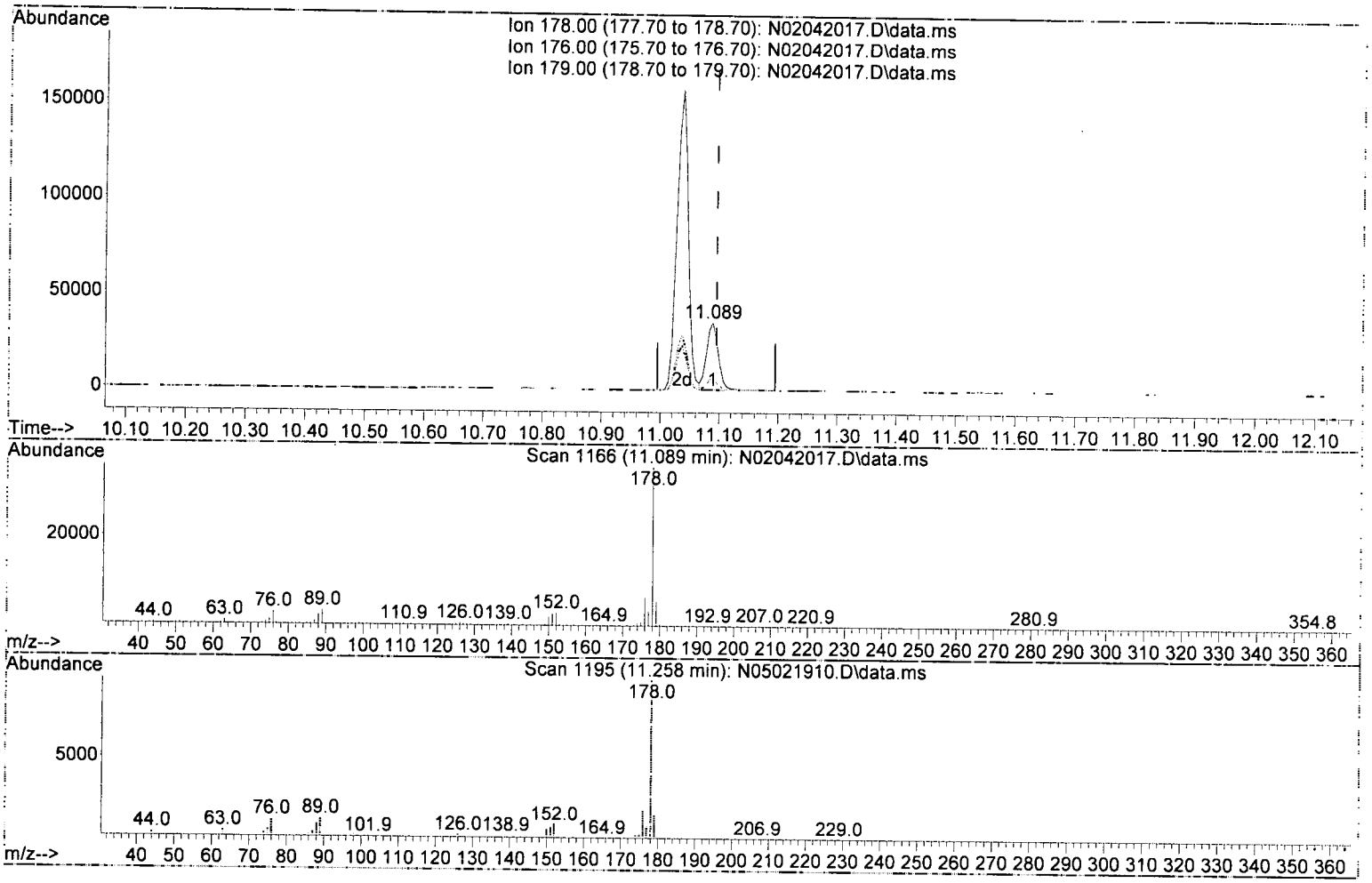
response 210412

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.65
179.00	15.10	15.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 24.15 ng/ml

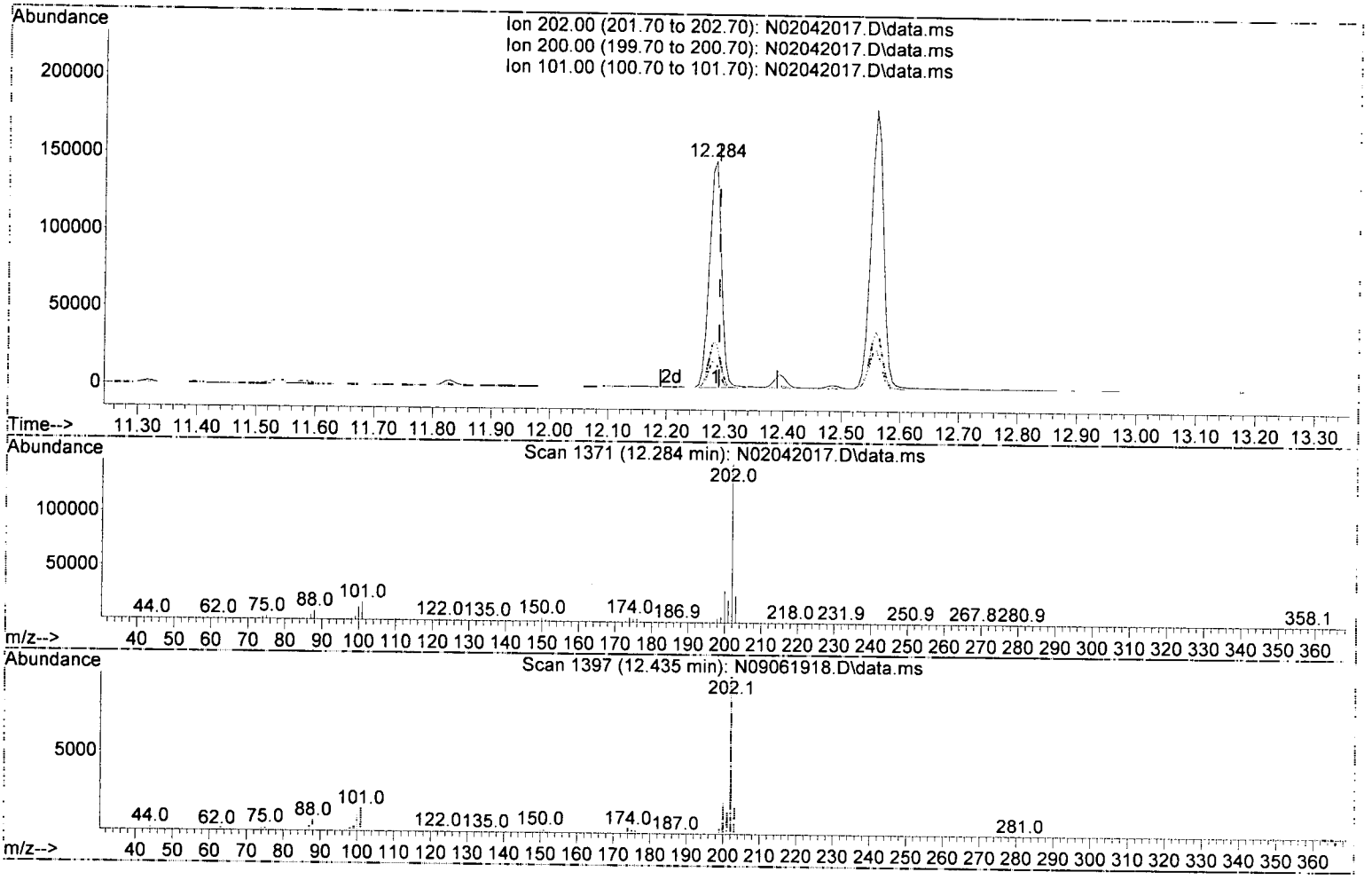
response 49443

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.03
179.00	15.30	15.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 95.97 ng/ml

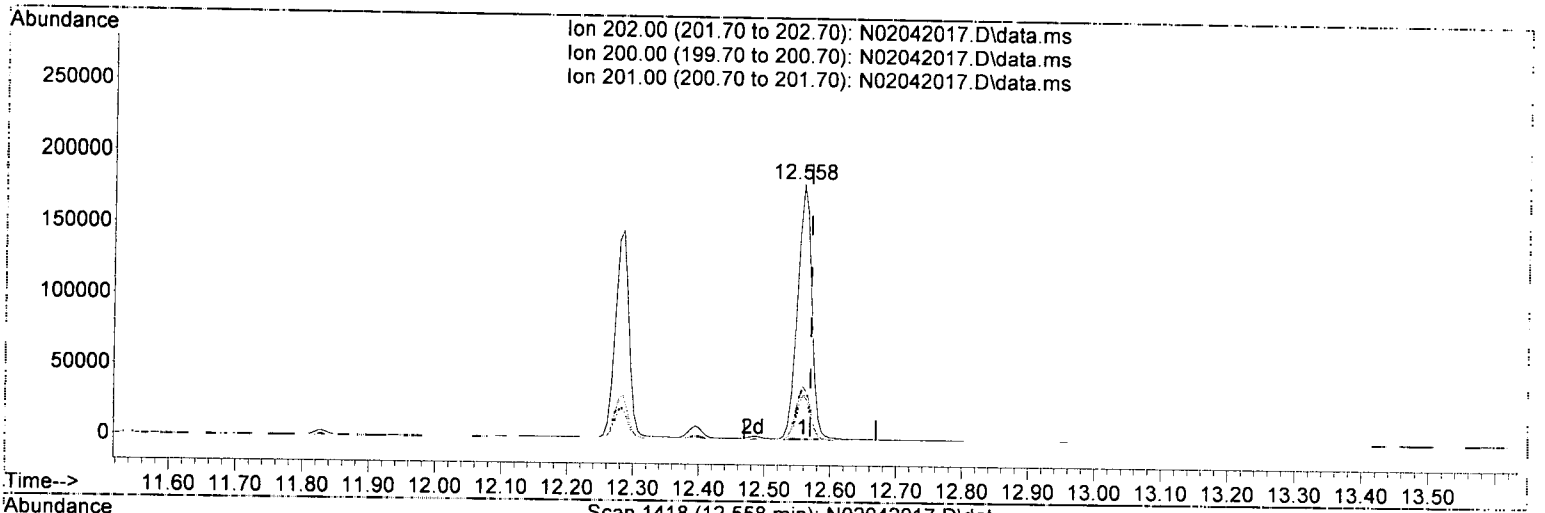
response 212850

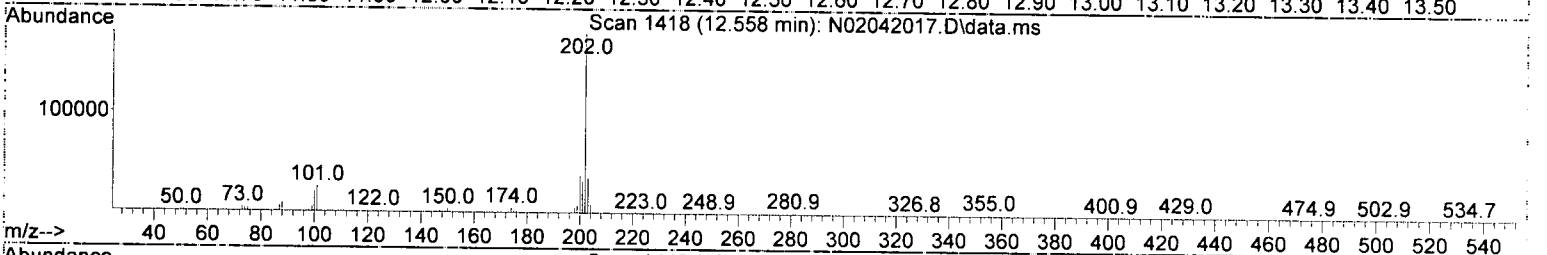
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.32
101.00	15.30	11.25
0.00	0.00	0.00

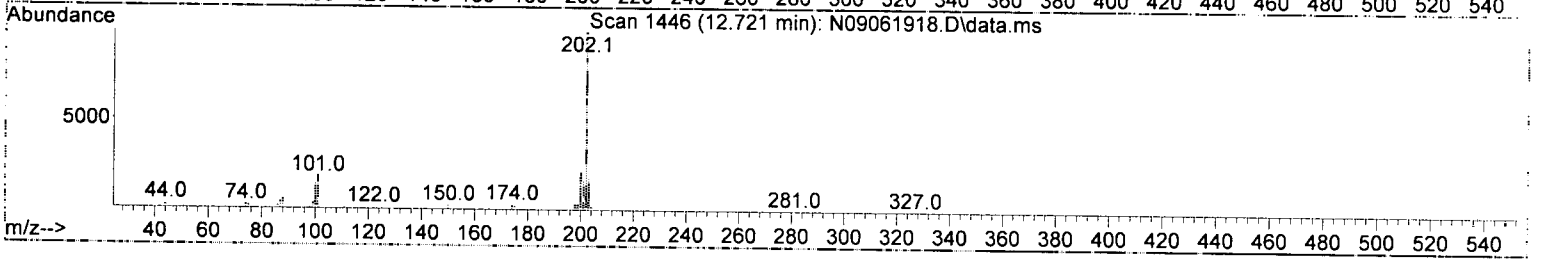
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042017.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 112.65 ng/ml

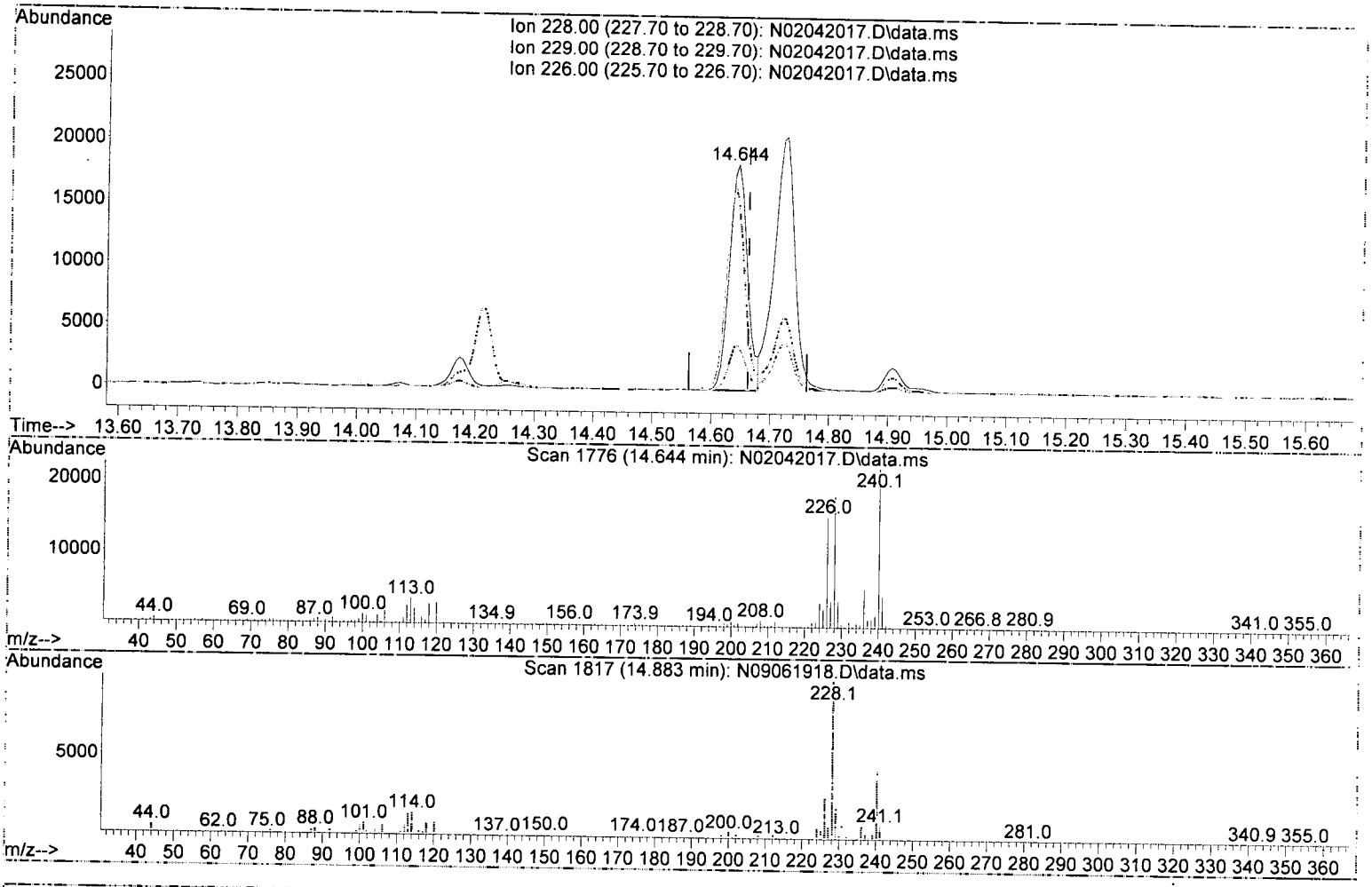
response 273518

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.71
201.00	16.80	17.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 21.82 ng/ml

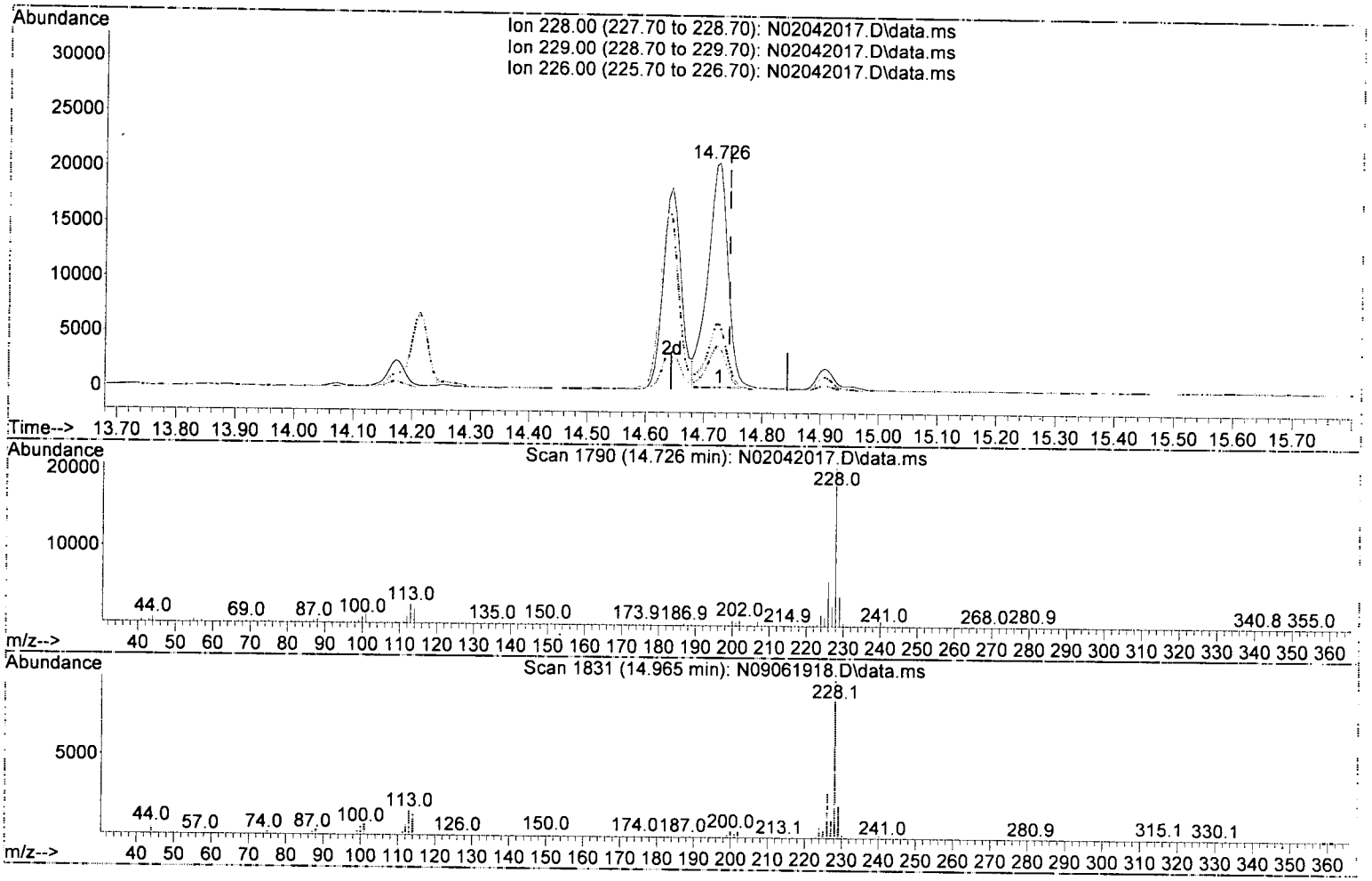
response 39374

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.28
226.00	26.20	84.49#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(28) Chrysene (T)

14.726min (-0.018) 28.73 ng/ml

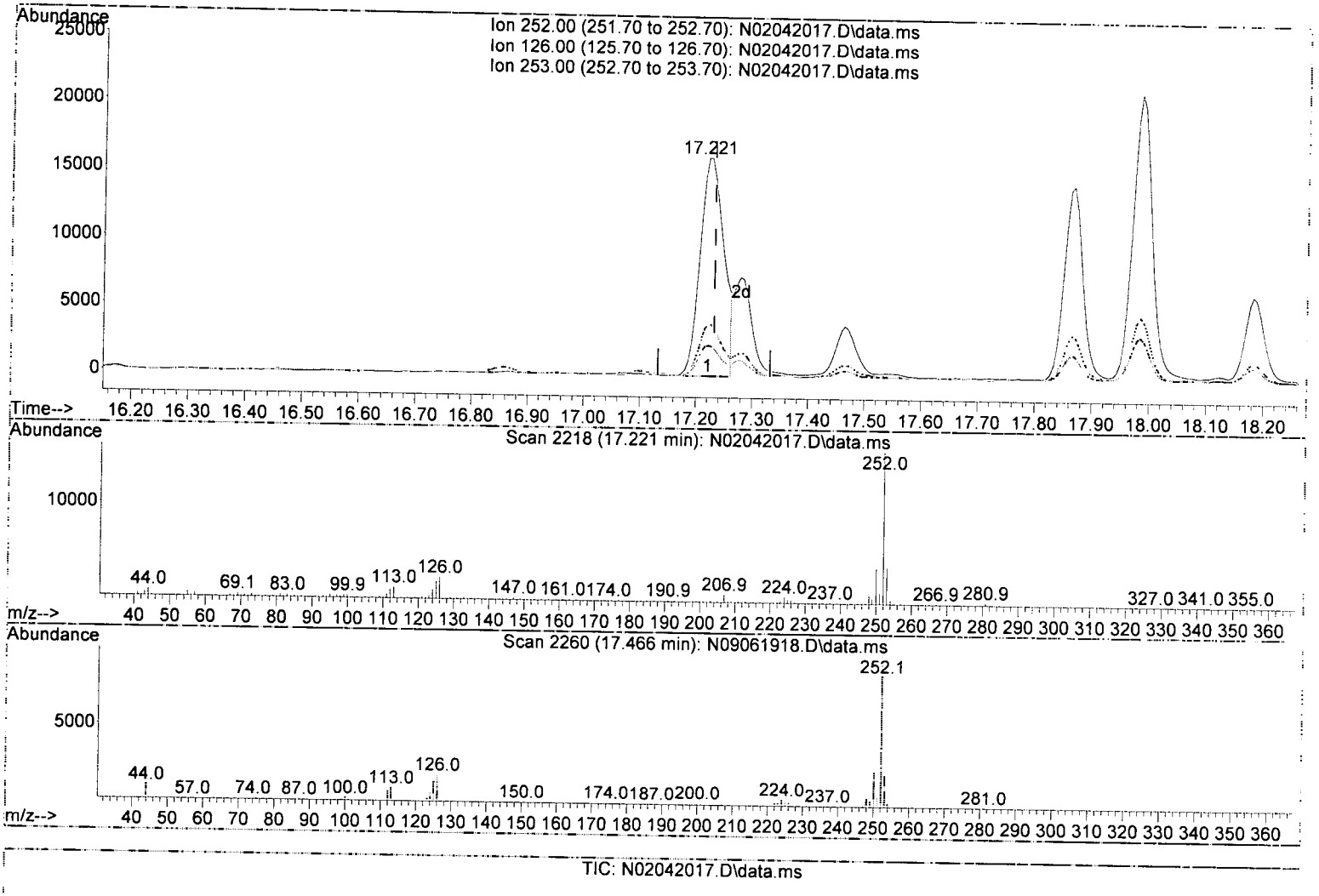
response 49060

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	19.06
226.00	28.60	28.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.221min (-0.012) 27.26 ng/ml

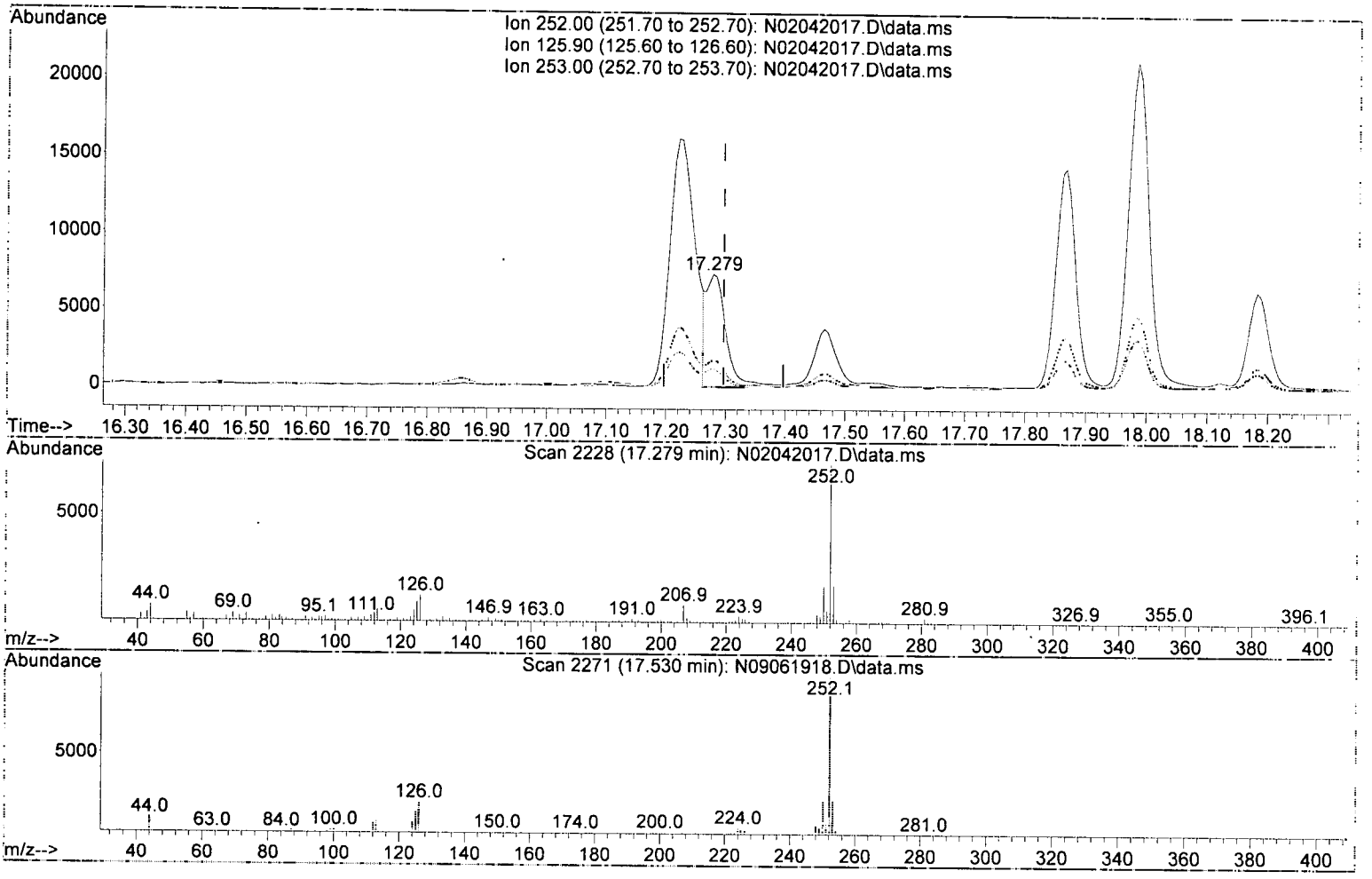
response 47551

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.13
253.00	21.10	24.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 9.51 ng/ml m

AMS 2/5/20 MOS

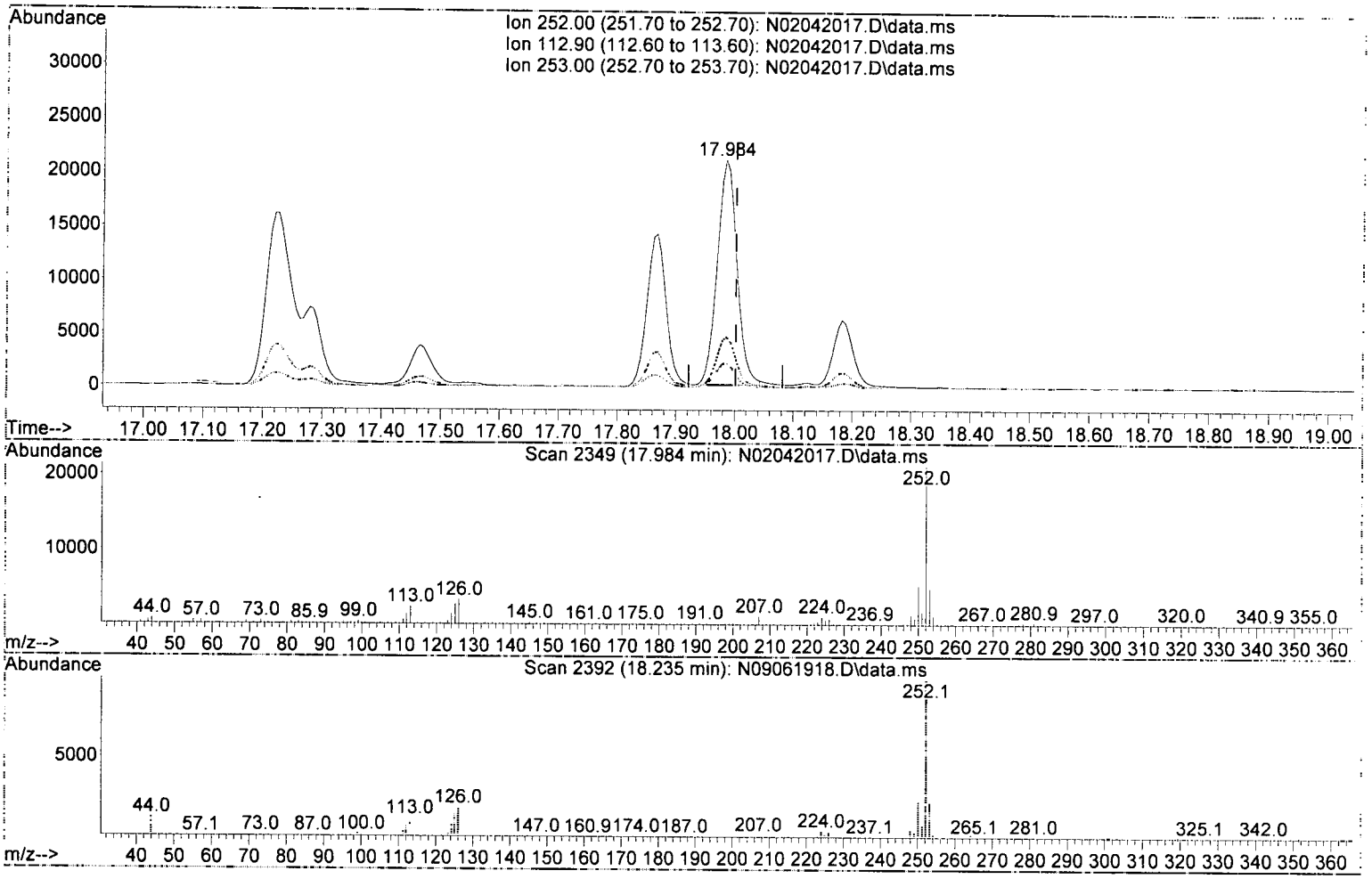
response 16333

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.60
253.00	21.50	23.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(35) Benzo(a)pyrene (T)

17.984min (-0.018) 33.02 ng/ml

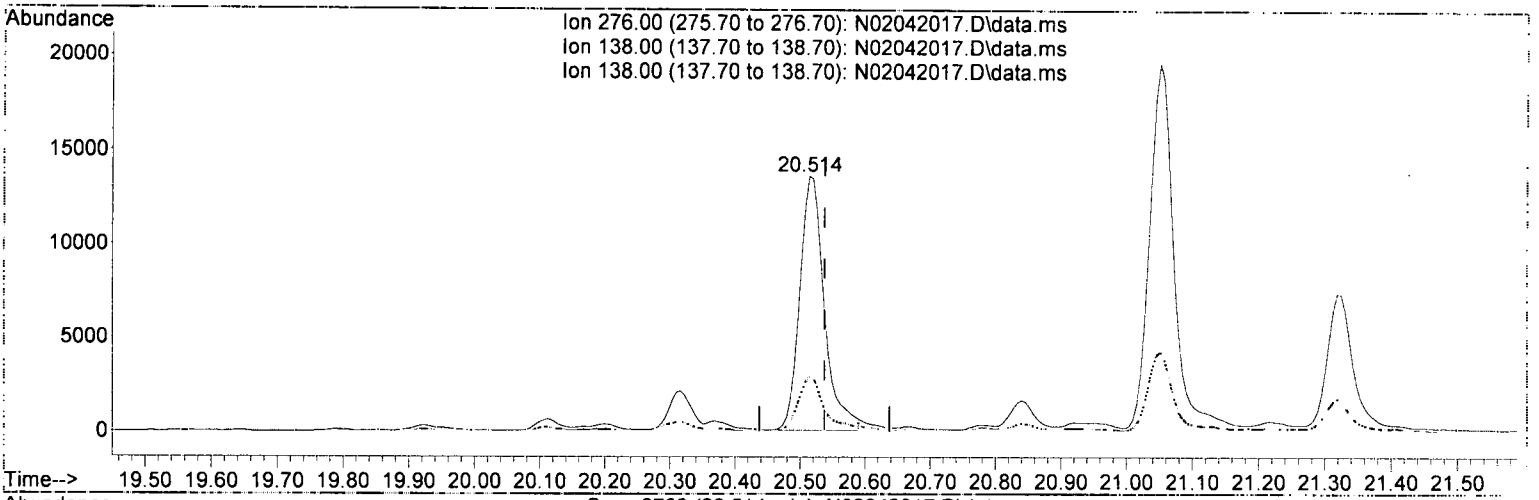
response 49294

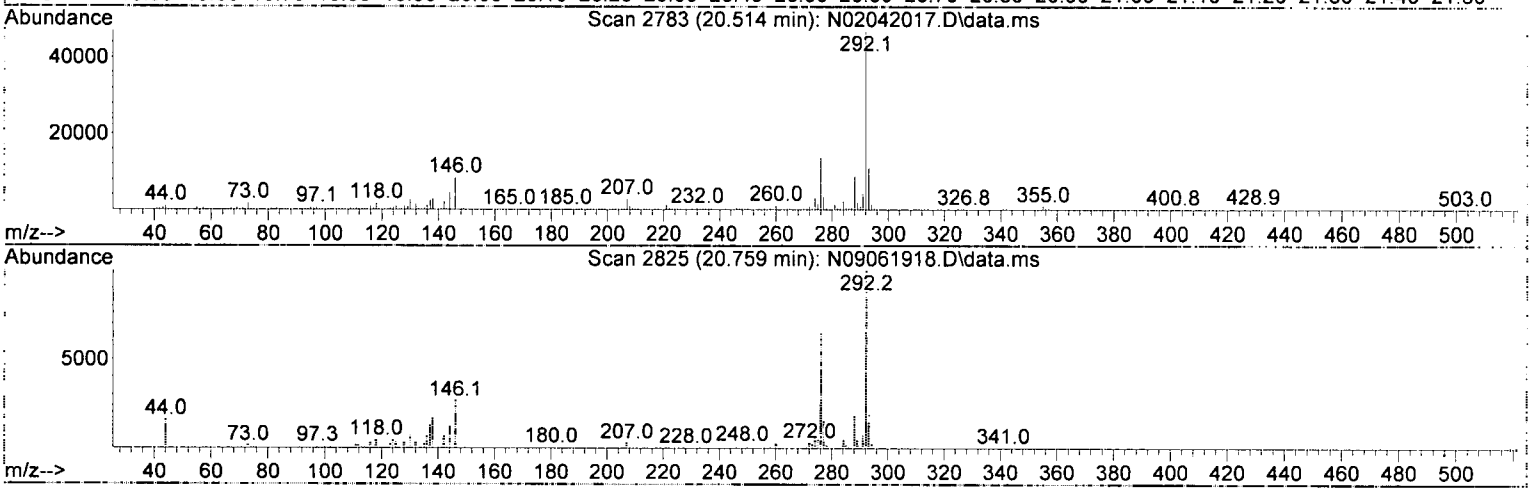
Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.91
253.00	21.90	22.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02042017.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.514min (-0.023) 23.75 ng/ml

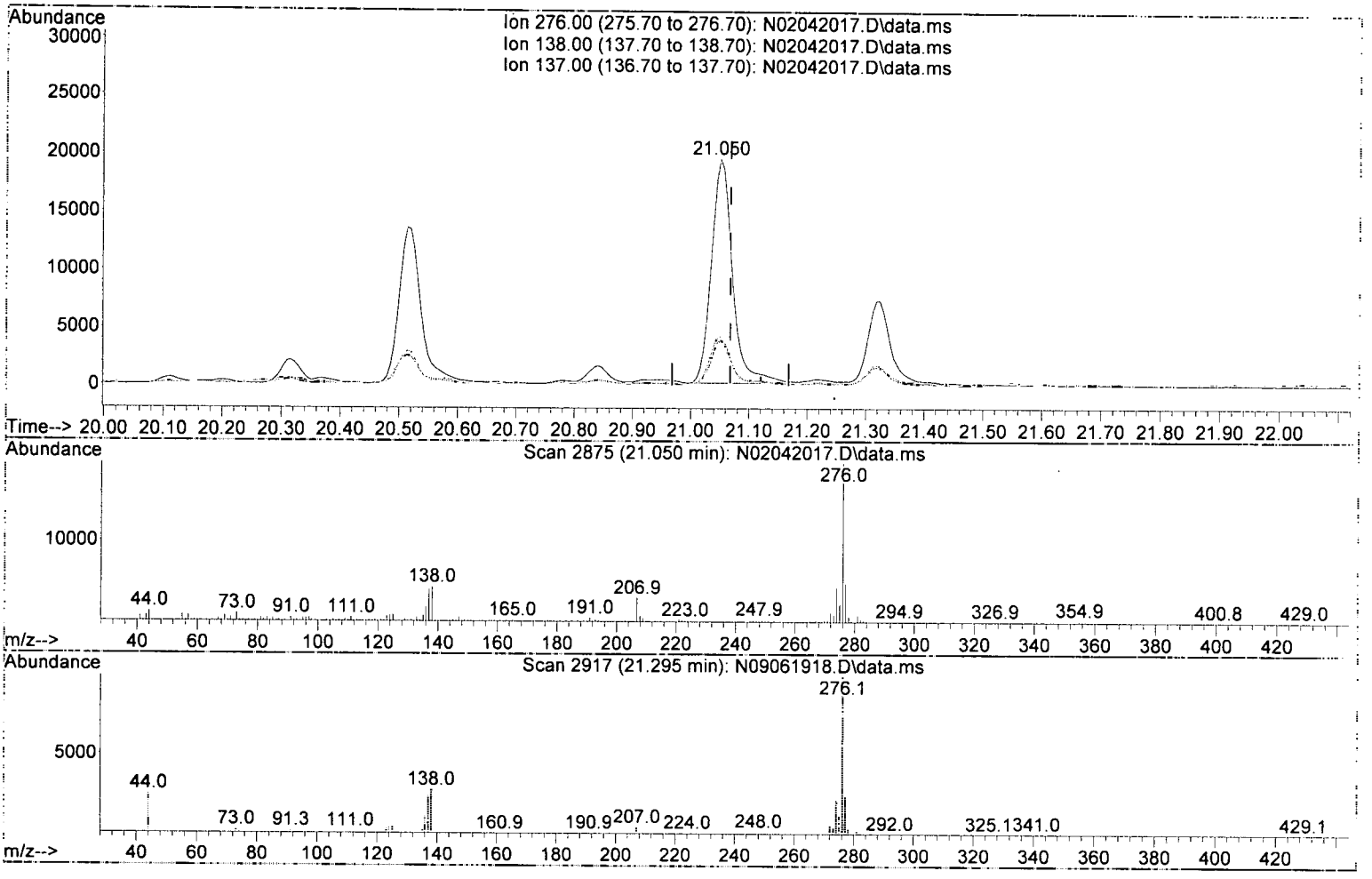
response 35447

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	21.76
138.00	31.60	21.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042017.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.050min (-0.018) 30.44 ng/ml

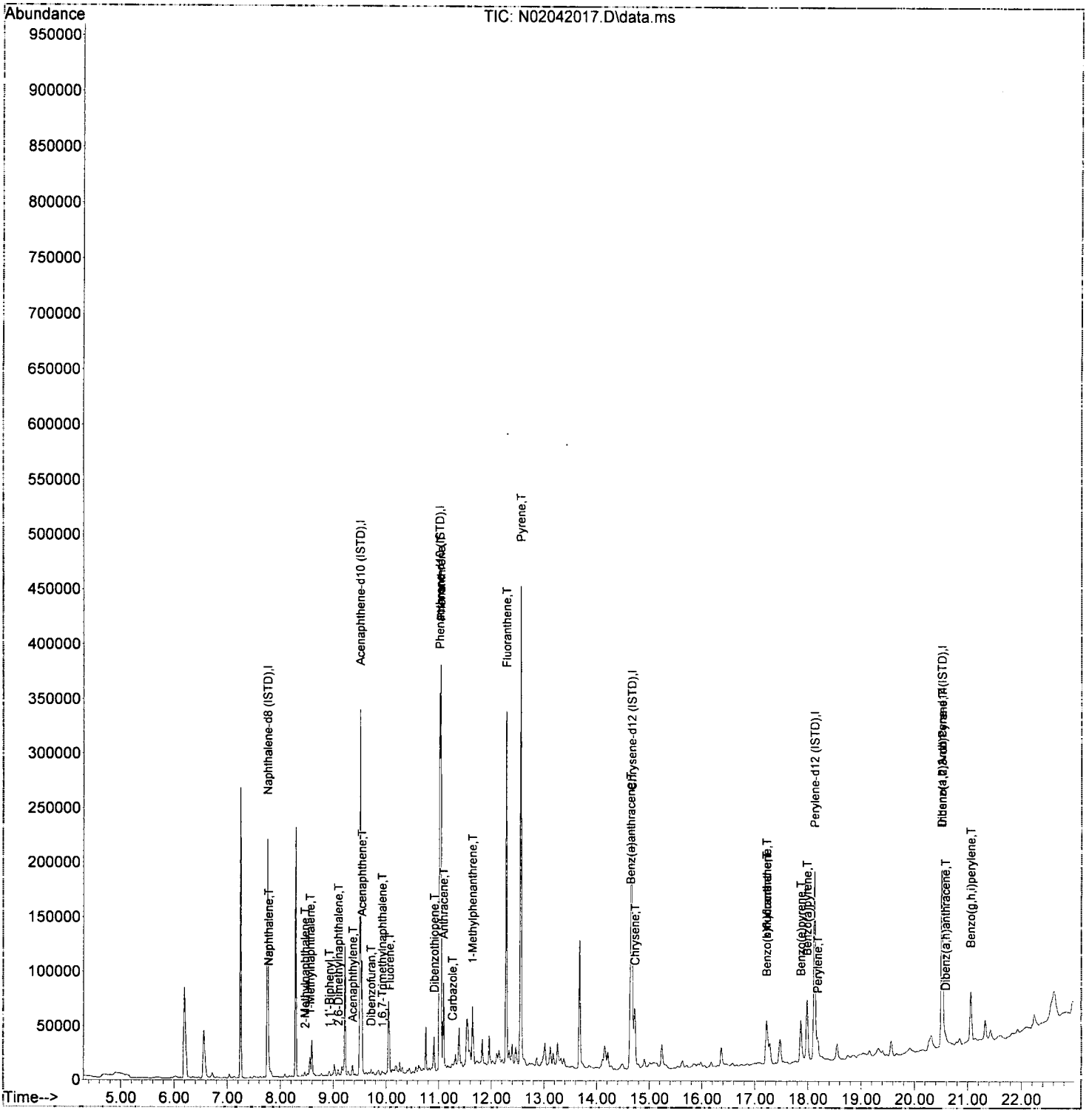
response 48199

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	21.81
137.00	18.60	20.24
0.00	0.00	0.00

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042017.D
Acq On : 04 Feb 2020 17:21
Operator : JK/ AMS/ DTH
Sample : A0A1011-04@1000
Misc : 1000x, 8270D LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:24 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/5/20 MOS

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	166778	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	106652	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	191677	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	157944	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	155226	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	120022	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	512	0.92	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.821	172	1361	0.86	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	2798	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	1538	0.93	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	~~N.D.~~		
4) Naphthalene	7.778	128	14844	8.07	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	3975	2.55	ng/ml	96
6) 1-Methylnaphthalene	8.559	142	13760	8.83	ng/ml	97
7) 1,1'-Biphenyl	8.926	154	2386	1.14	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.090	156	2171	1.42	ng/ml	98
12) Acenaphthylene	9.363	152	8311	3.59	ng/ml	96
13) Acenaphthene	9.538	153	70754	46.65	ng/ml	100
14) Dibenzofuran	9.719	168	1640	0.86	ng/ml	94
15) 1,6,7-Trimethylnaphtha...	9.923	170	1047	0.82	ng/ml	78
16) Fluorene	10.063	166	24959	16.08	ng/ml	99
18) Dibenzothiopene	10.908	184	23072	11.51	ng/ml	96
19) Phenanthrene	11.036	178	219602	97.91	ng/ml	100
20) Anthracene	11.089	178	21273	10.20	ng/ml	98
21) Carbazole	11.258	167	3156	1.87	ng/ml	94
22) 1-Methylphenanthrene	11.642	192	13631	8.75	ng/ml#	47
23) Fluoranthene	12.284	202	202953	89.81	ng/ml	96
25) Pyrene	12.558	202	261820	106.10	ng/ml	99
27) Benz(a)anthracene	14.644	228	35143	19.16	ng/ml#	23
28) Chrysene	14.726	228	45096	25.99	ng/ml	97
30) Benzo(b)fluoranthene	17.226	252	51180	28.57	ng/ml	91
31) Benzo(k)fluoranthene	~~17.226~~	~~252~~	62353	~~35.36~~	ng/ml	~~90~~
32) Benzo(b+k)fluoranthene	17.226	252	70740	38.61	ng/ml	90
34) Benzo(e)pyrene	17.867	252	35351	19.52	ng/ml	98
35) Benzo(a)pyrene	17.990	252	52406	34.18	ng/ml	96
36) Perylene	18.188	252	17348	9.19	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.519	276	39476	26.67	ng/ml	81
39) Dibenz(a,h)anthracene	20.578	278	3478	2.50	ng/ml	86
40) Benzo(g,h,i)perylene	21.056	276	54475	34.69	ng/ml	98

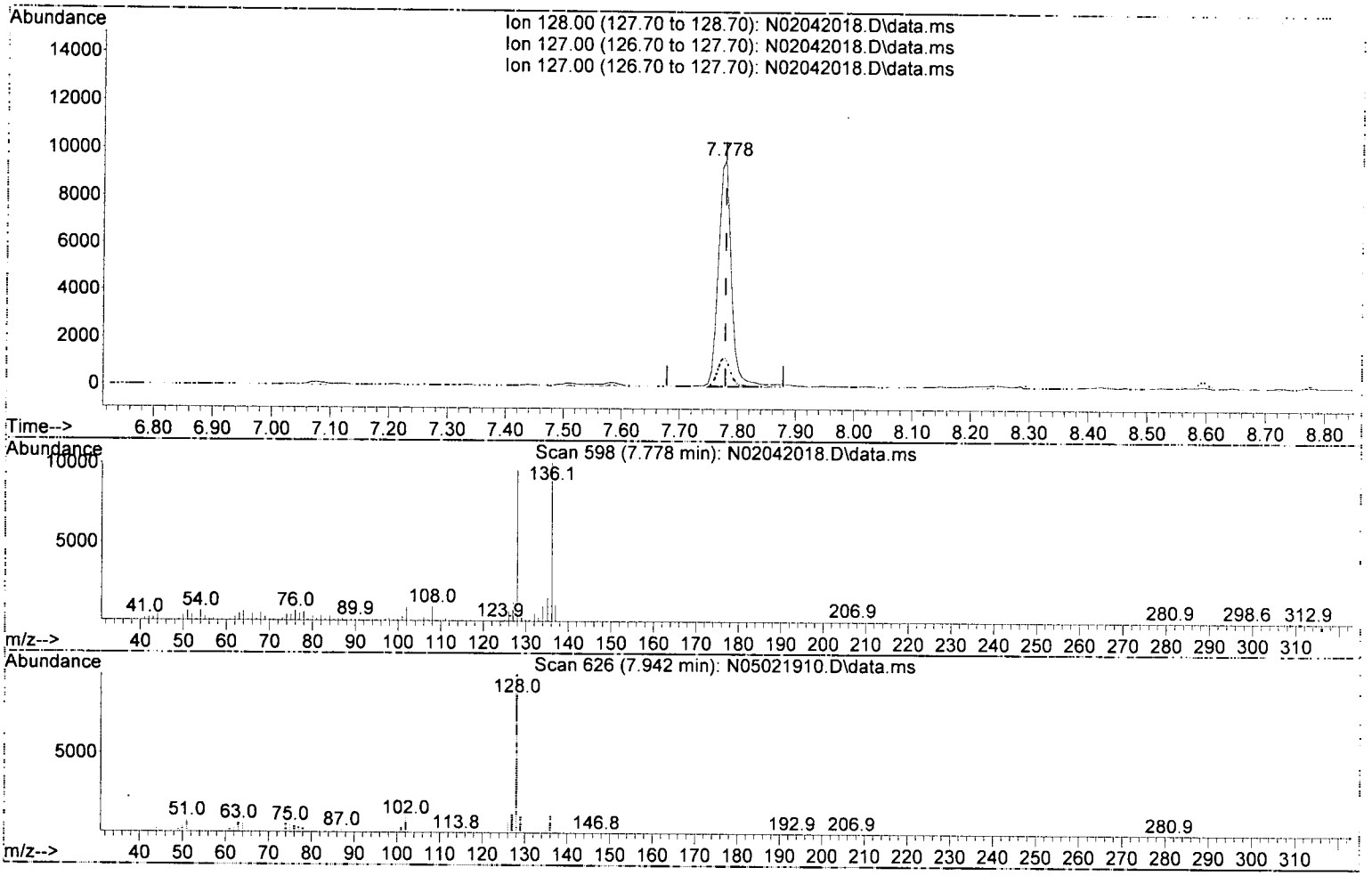
MEr MOS

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(4) Naphthalene (T)

7.778min (-0.000) 8.07 ng/ml

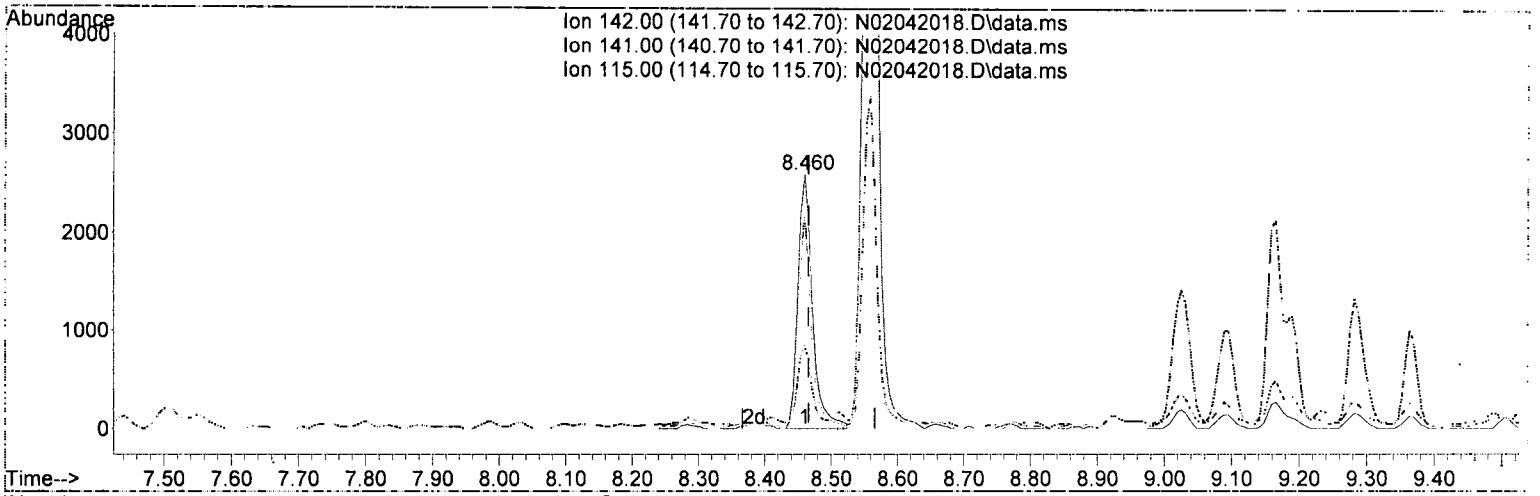
response 14844

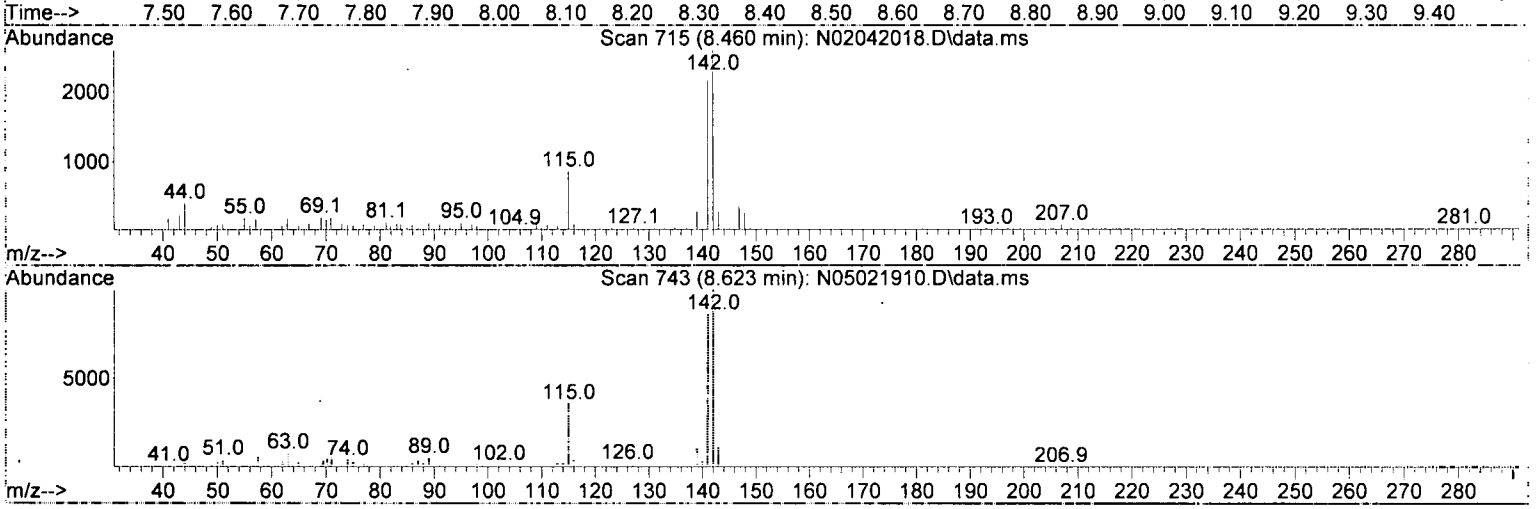
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.60
127.00	12.60	12.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02042018.D\data.ms

(5) 2-Methylnaphthalene (T)

8.460min (-0.006) 2.55 ng/ml

response 3975

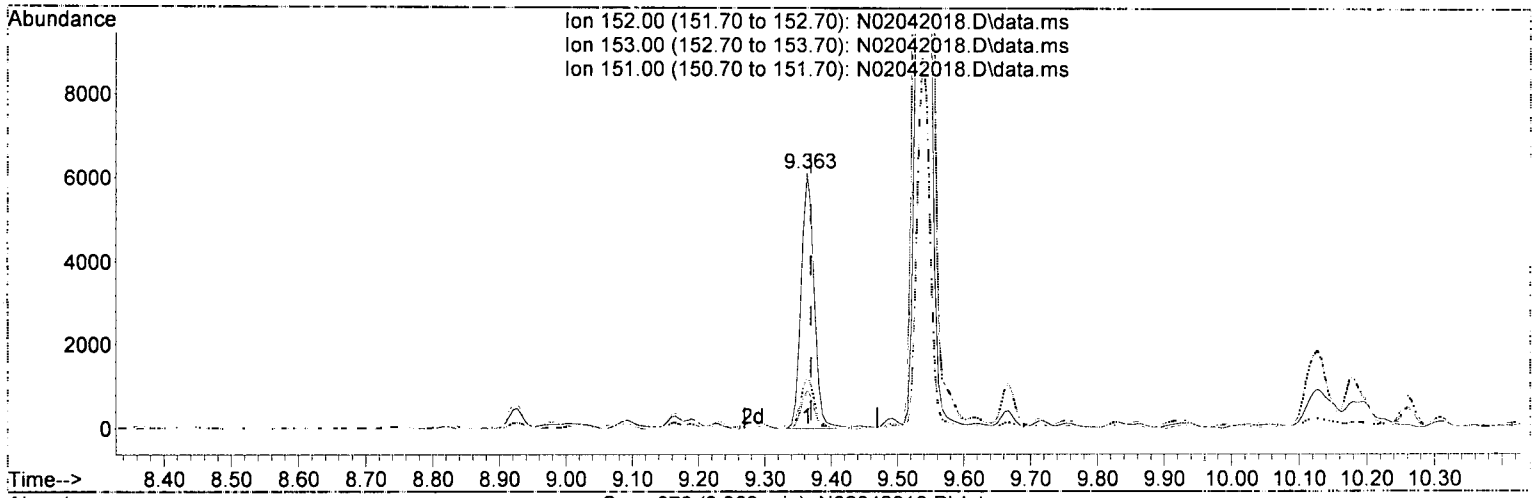
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	83.39
115.00	35.70	33.03
0.00	0.00	0.00

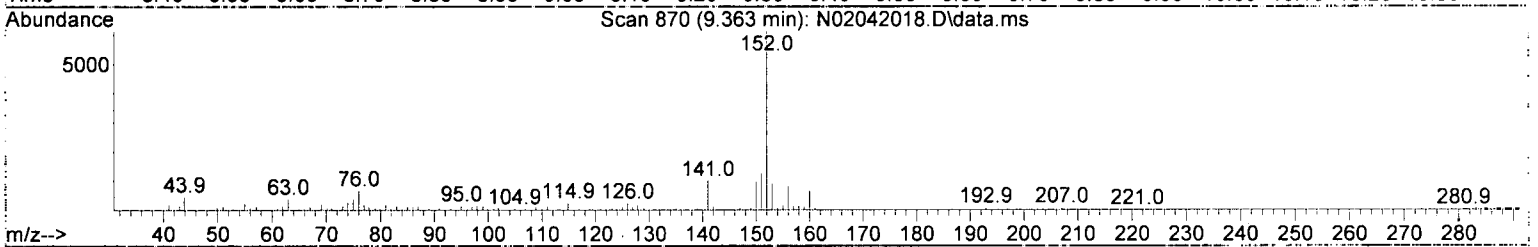
J

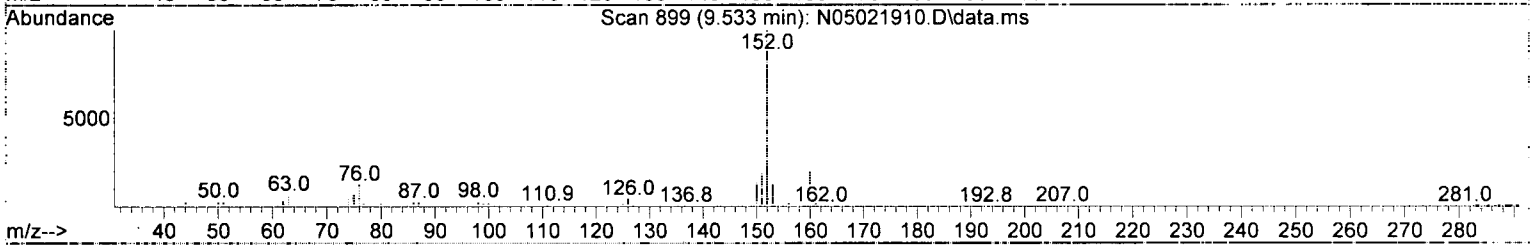
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042018.D\data.ms

(12) Acenaphthylene (T)

9.363min (-0.006) 3.59 ng/ml

response 8311

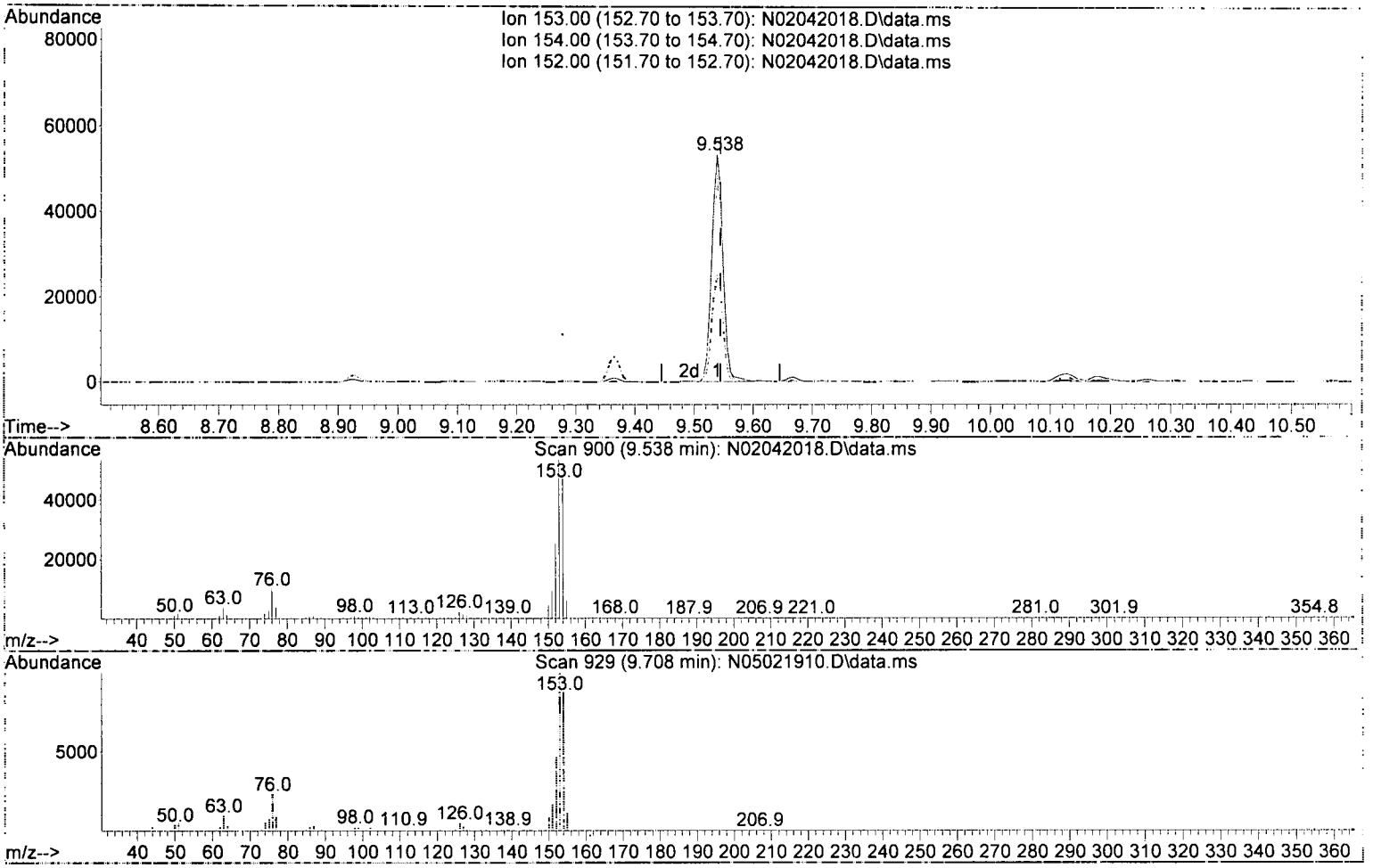
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	14.90
151.00	19.30	20.49
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 46.65 ng/ml

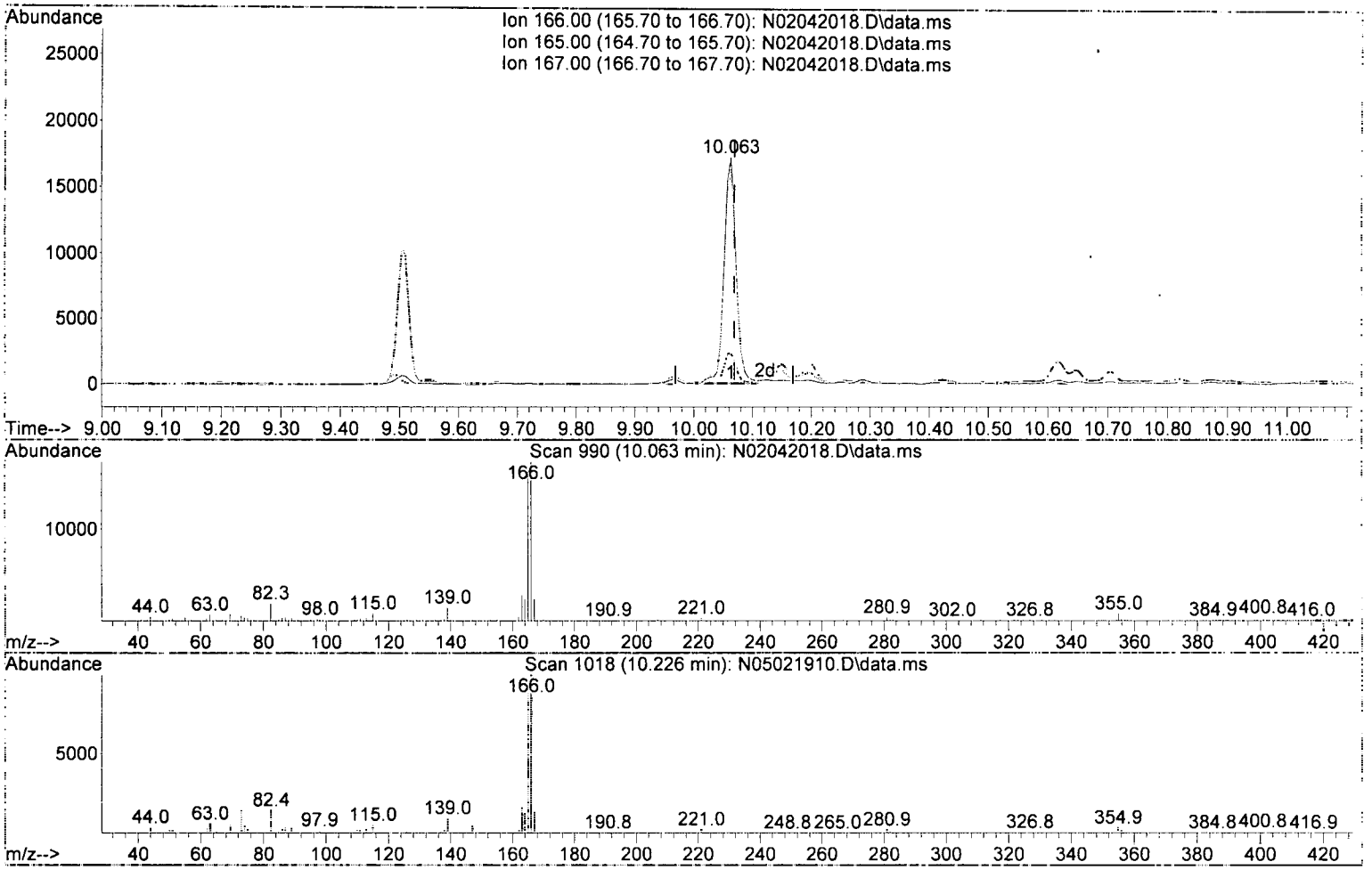
response 70754

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.65
152.00	46.80	47.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 16.08 ng/ml

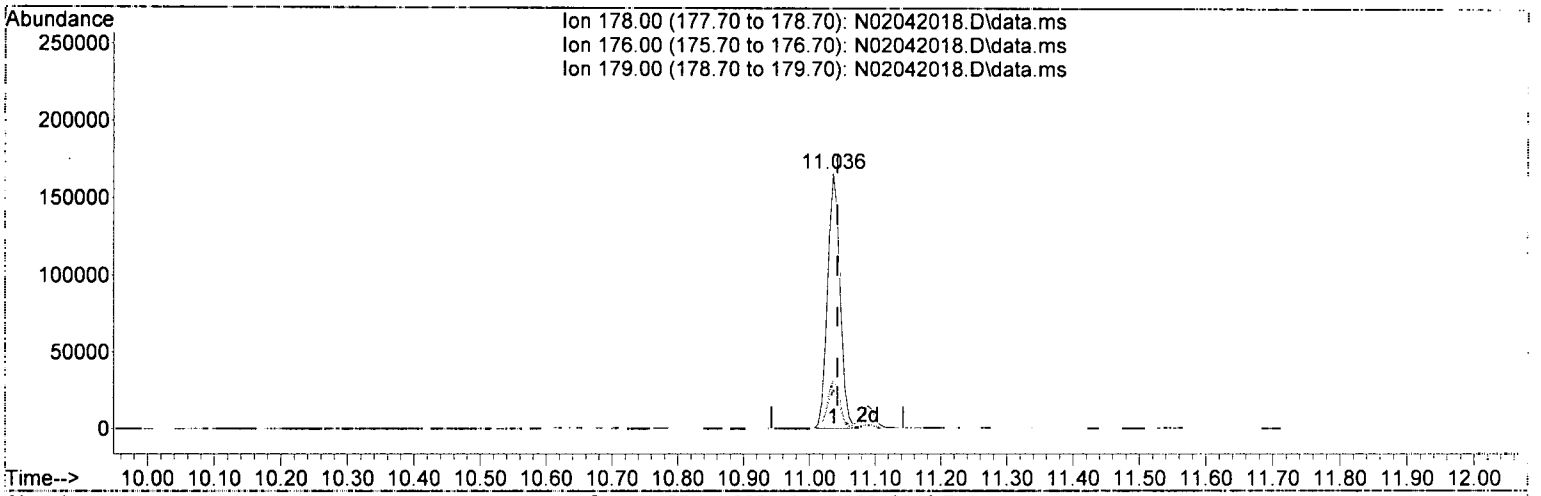
response 24959

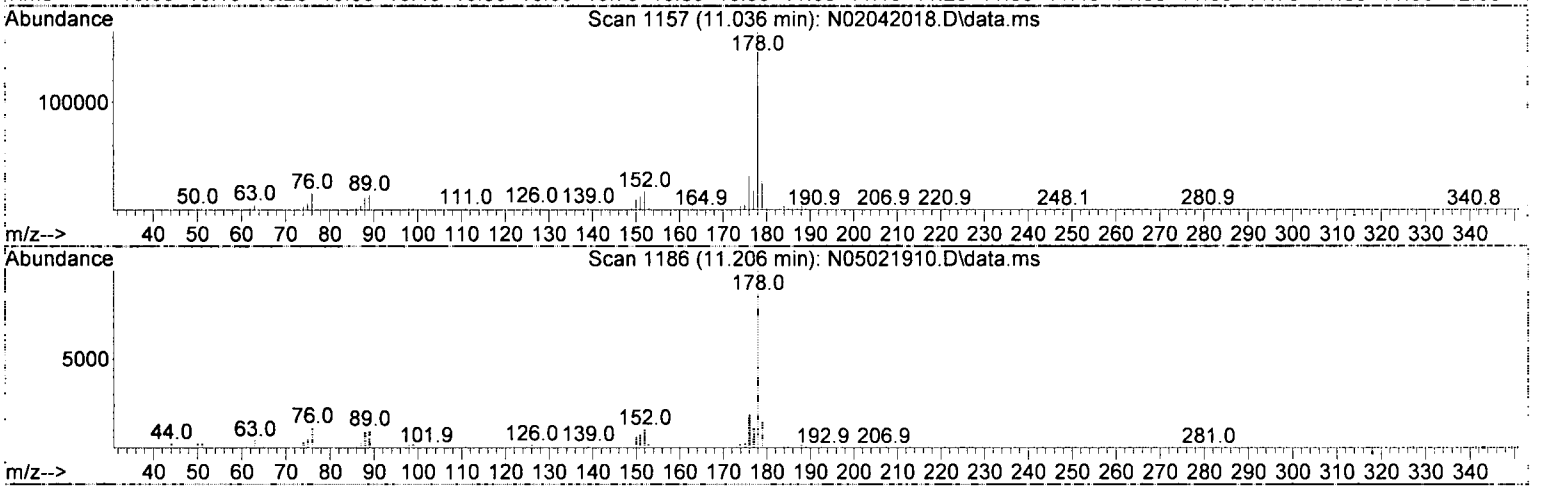
Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	94.65
167.00	13.60	14.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02042018.D\data.ms

(19) Phenanthrene (T)

11.036min (-0.006) 97.91 ng/ml

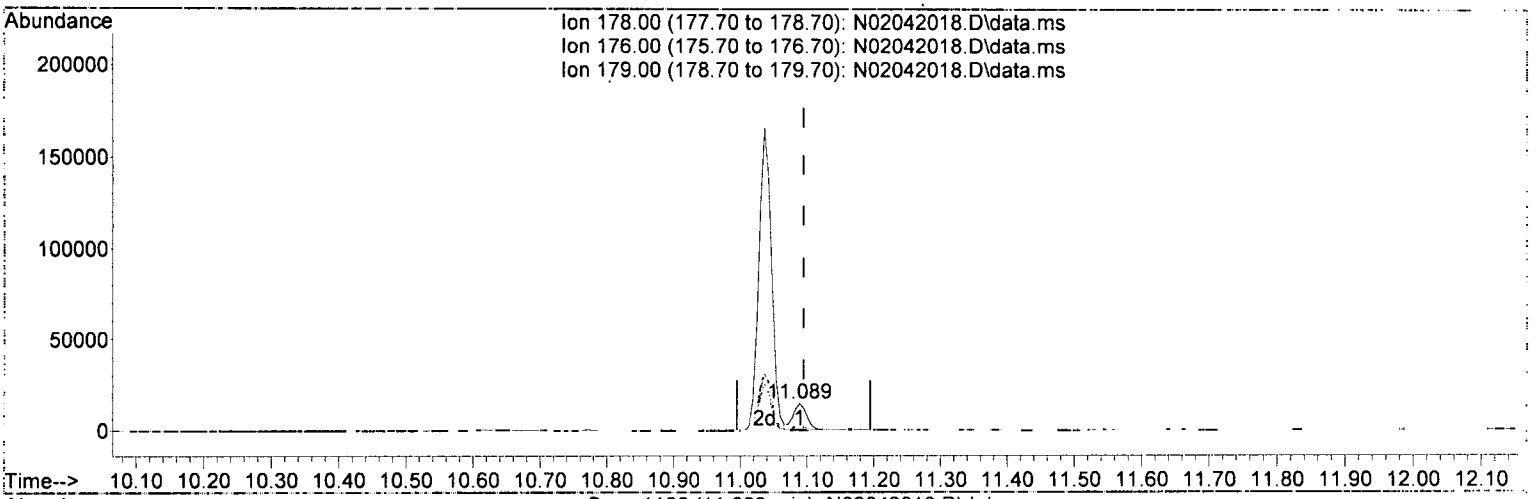
response 219602

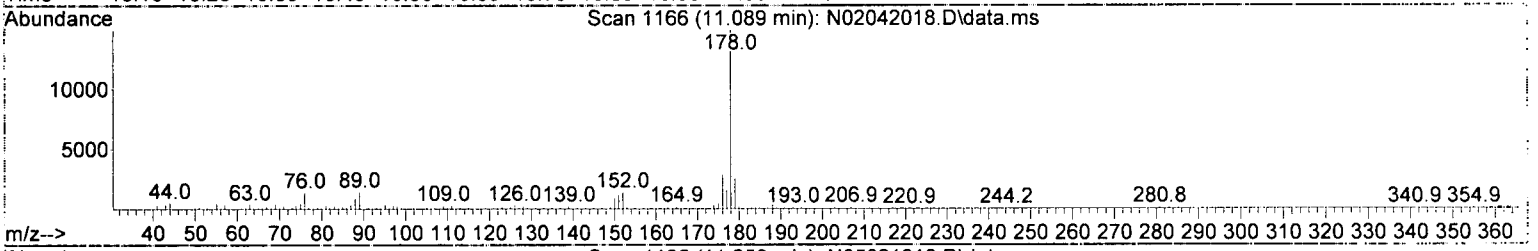
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.01
179.00	15.10	15.38
0.00	0.00	0.00

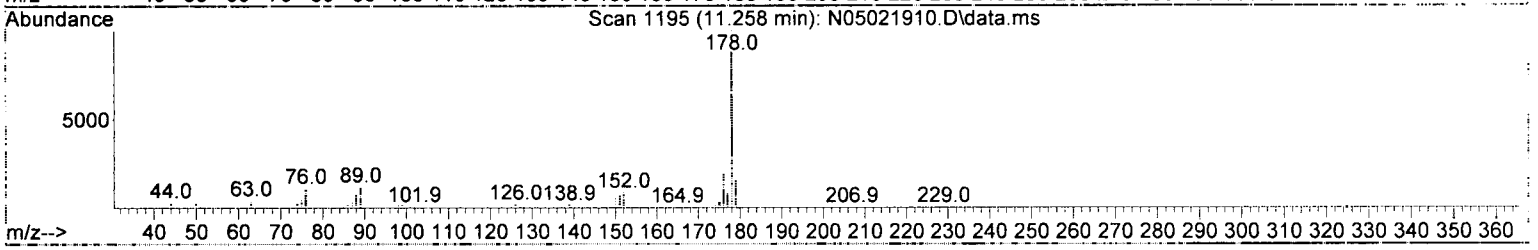
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042018.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 10.20 ng/ml

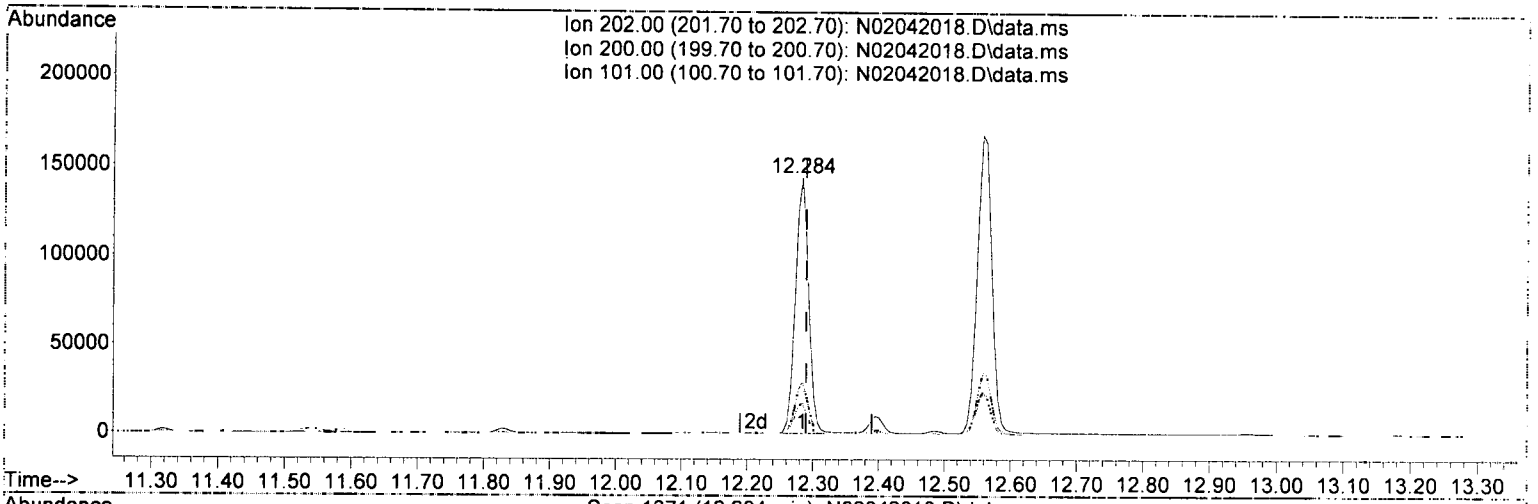
response 21273

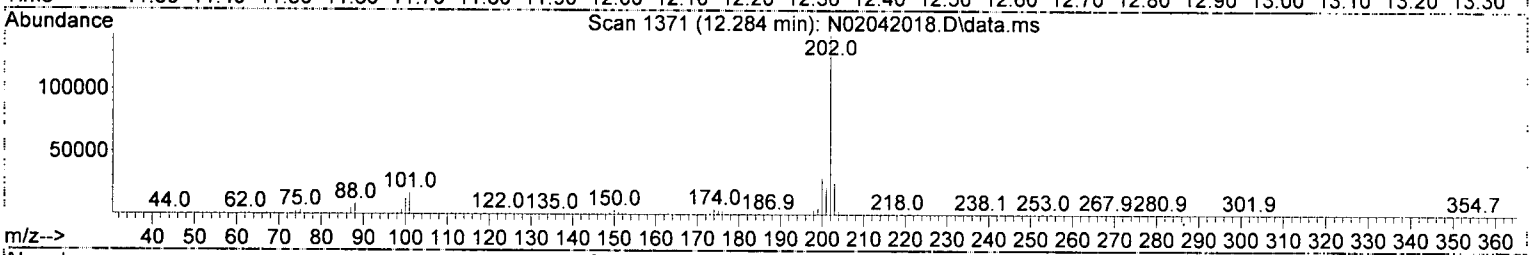
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.91
179.00	15.30	16.70
0.00	0.00	0.00

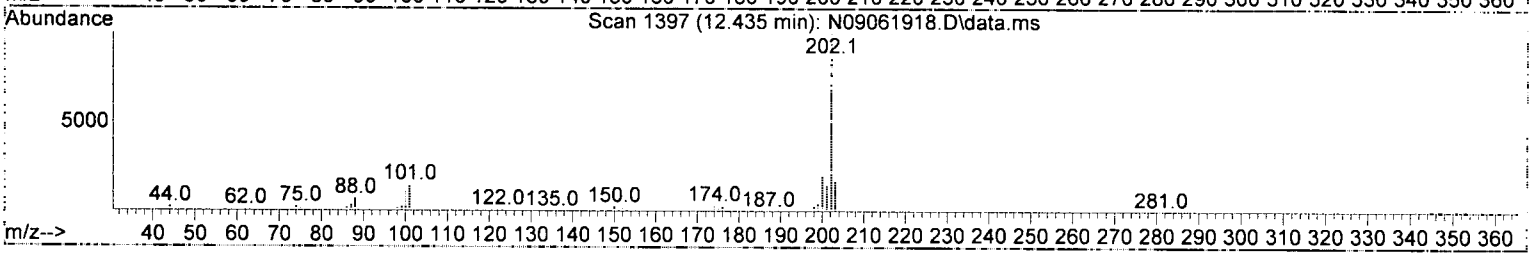
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042018.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 89.81 ng/ml

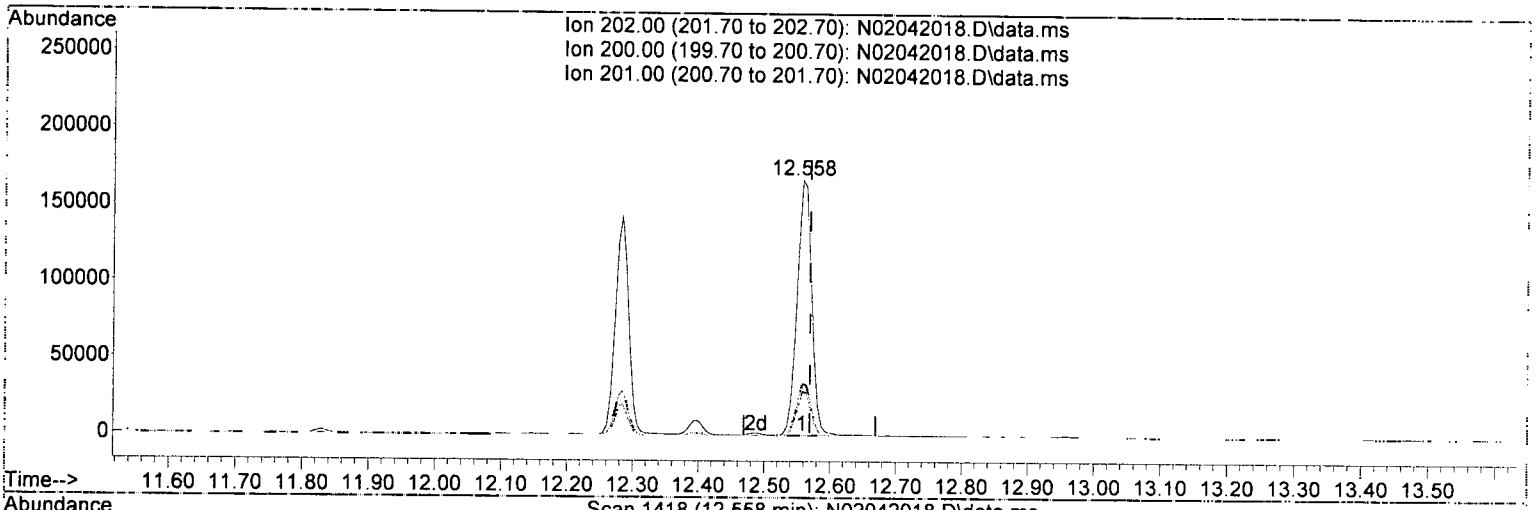
response 202953

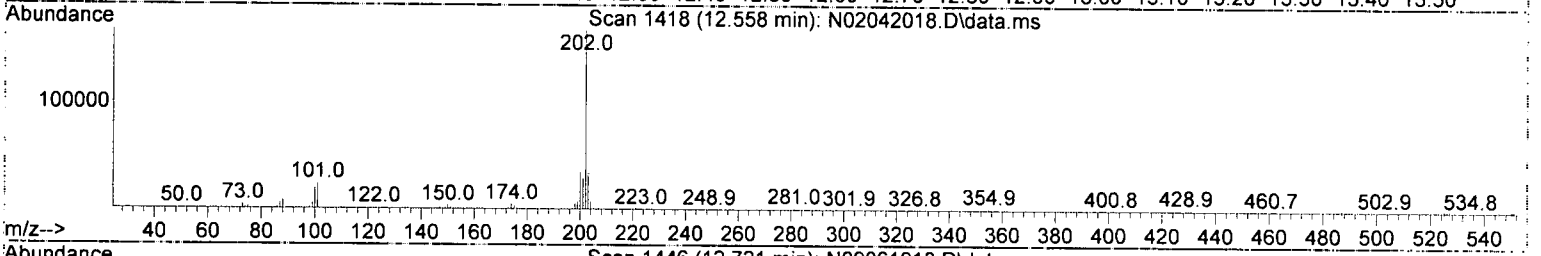
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.02
101.00	15.30	11.72
0.00	0.00	0.00

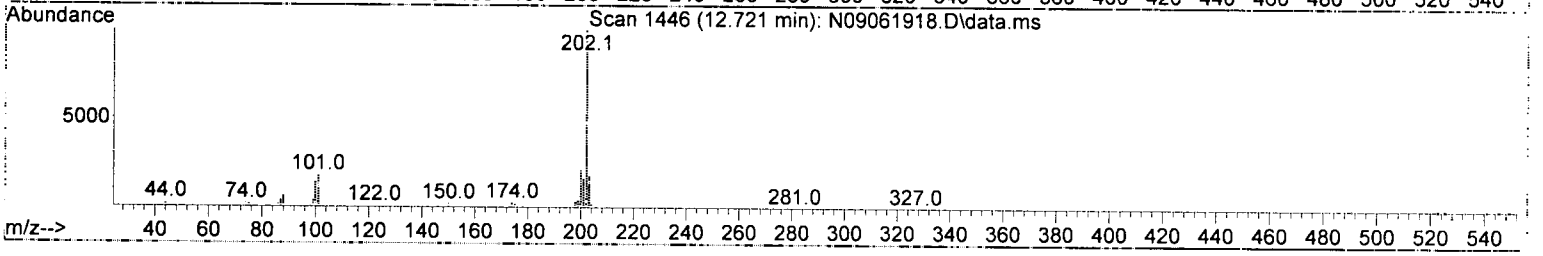
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042018.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 106.10 ng/ml

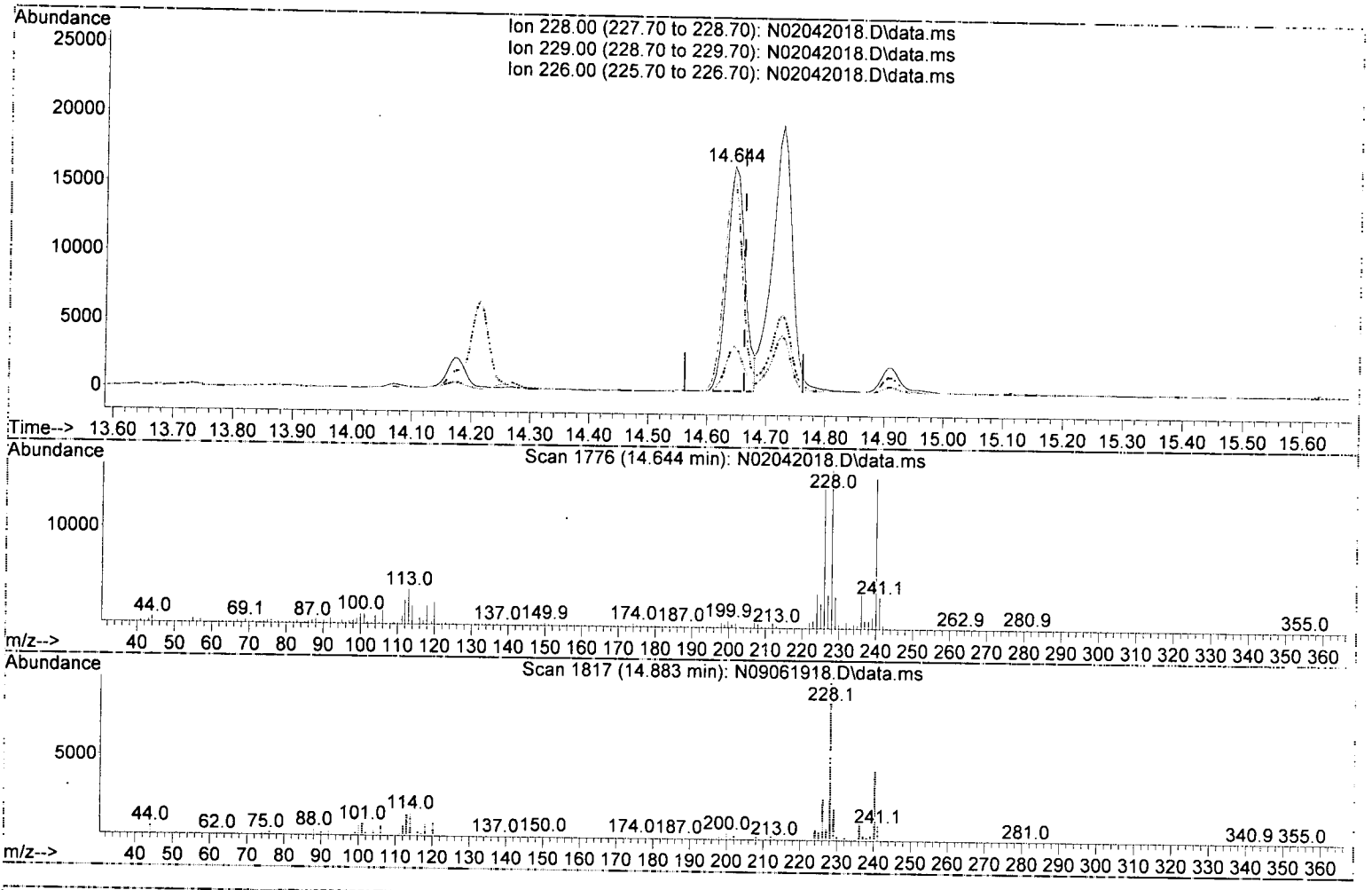
response 261820

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.34
201.00	16.80	17.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 19.16 ng/ml

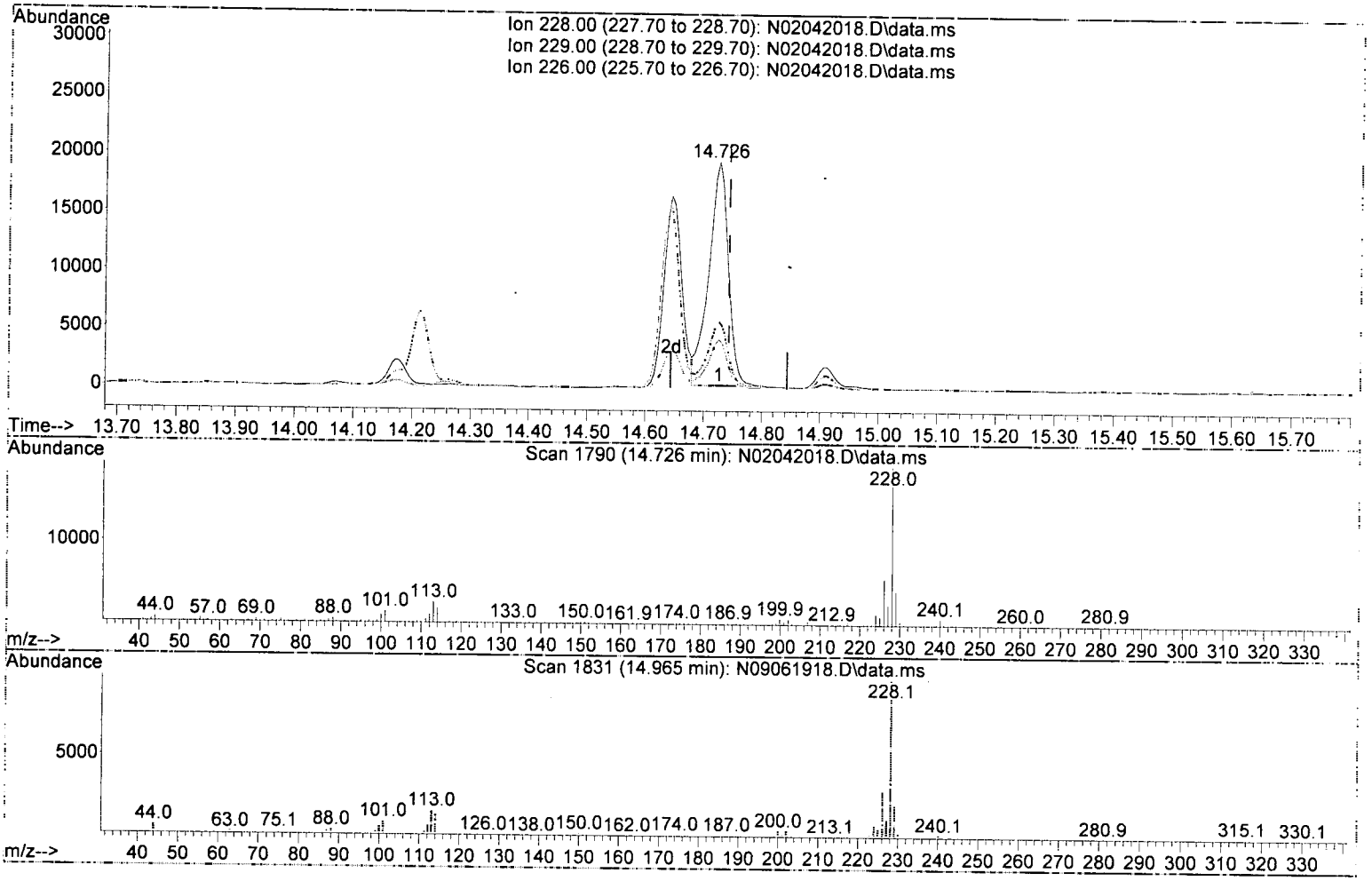
response 35143

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.17
226.00	26.20	94.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(28) Chrysene (T)

14.726min (-0.018) 25.99 ng/ml

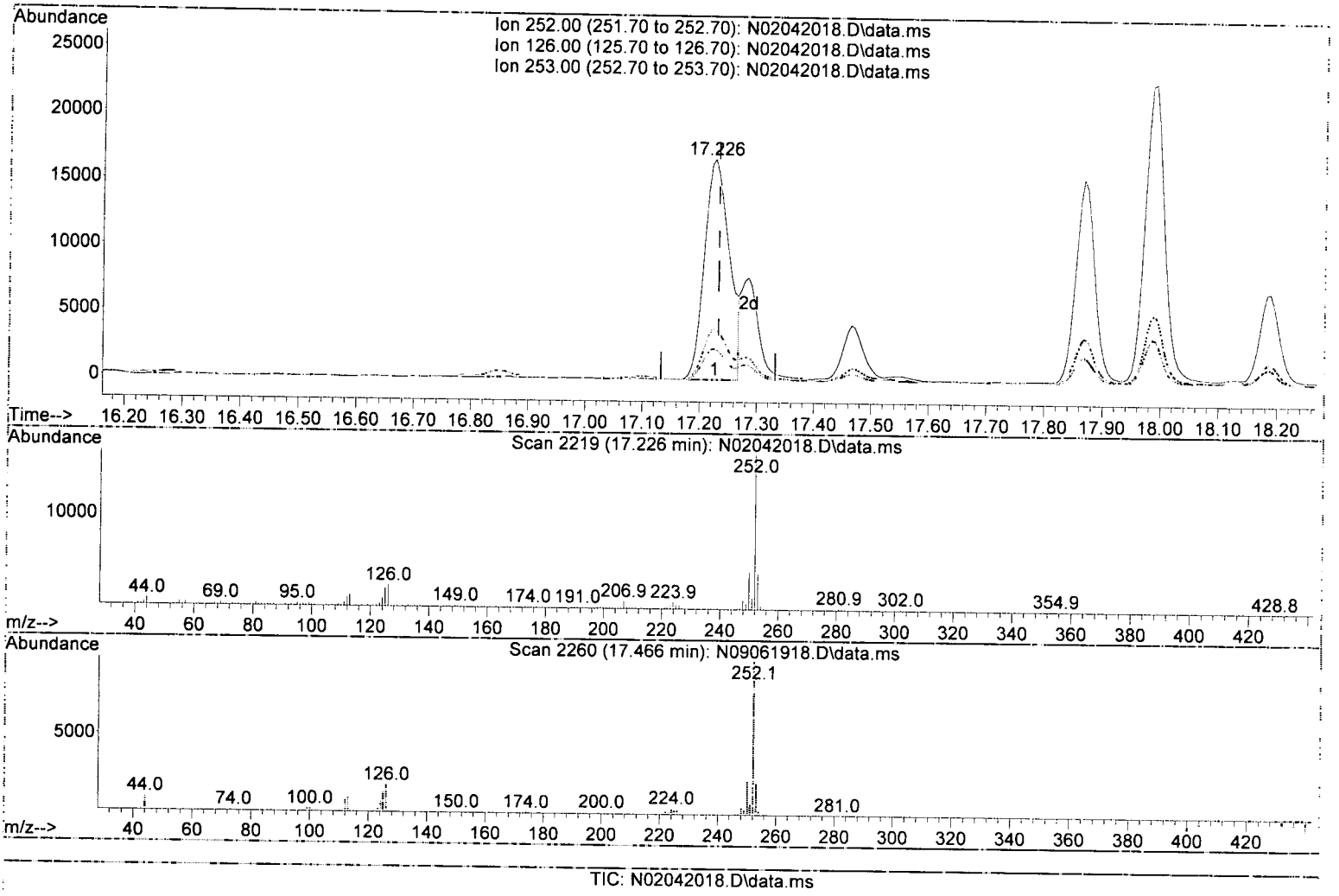
response 45096

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	21.55
226.00	28.60	29.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.226min (-0.006) 28.57 ng/ml

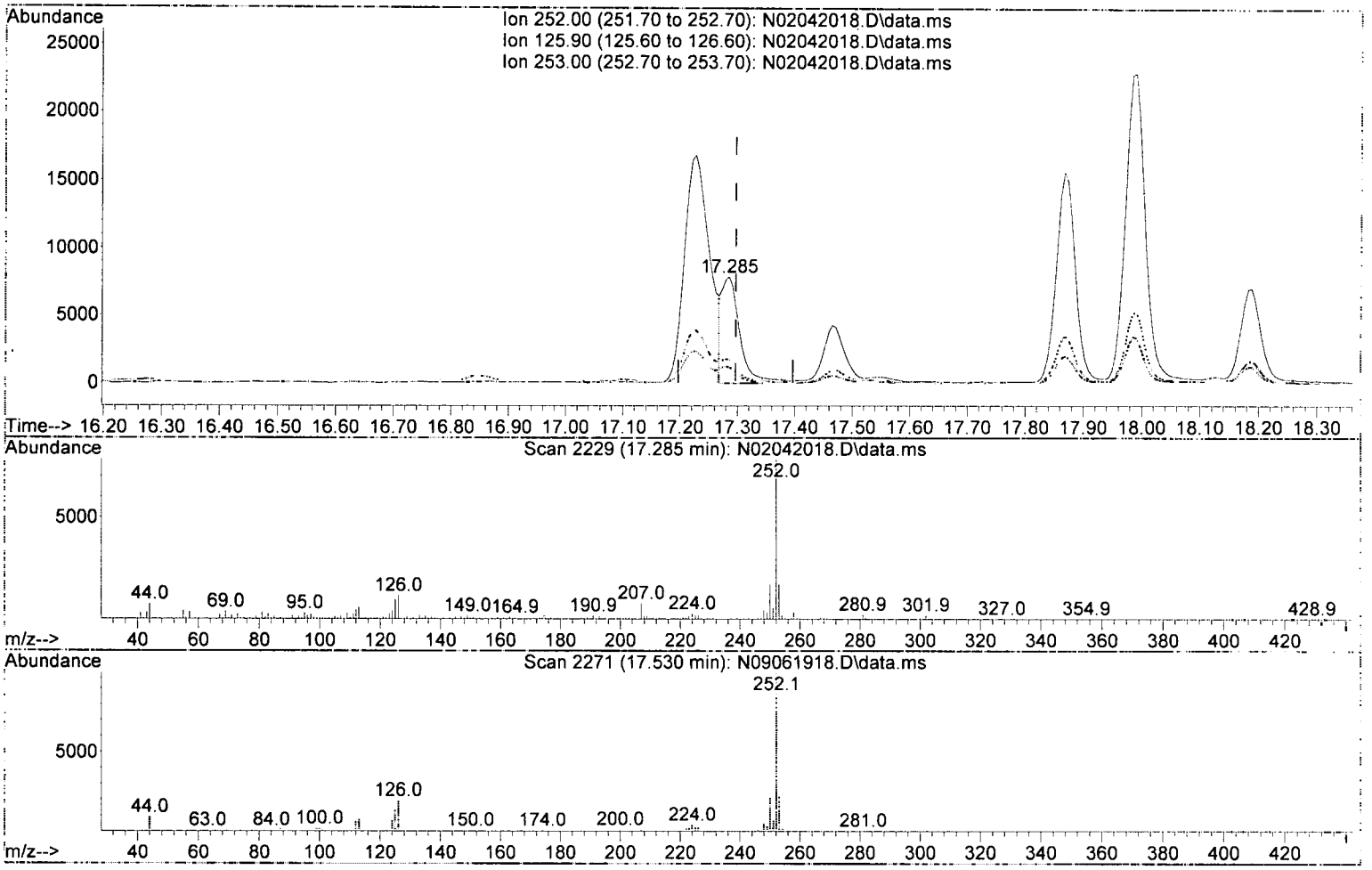
response 51180

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.98
253.00	21.10	23.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.285min (-0.012) 9.21 ng/ml m

response 16245

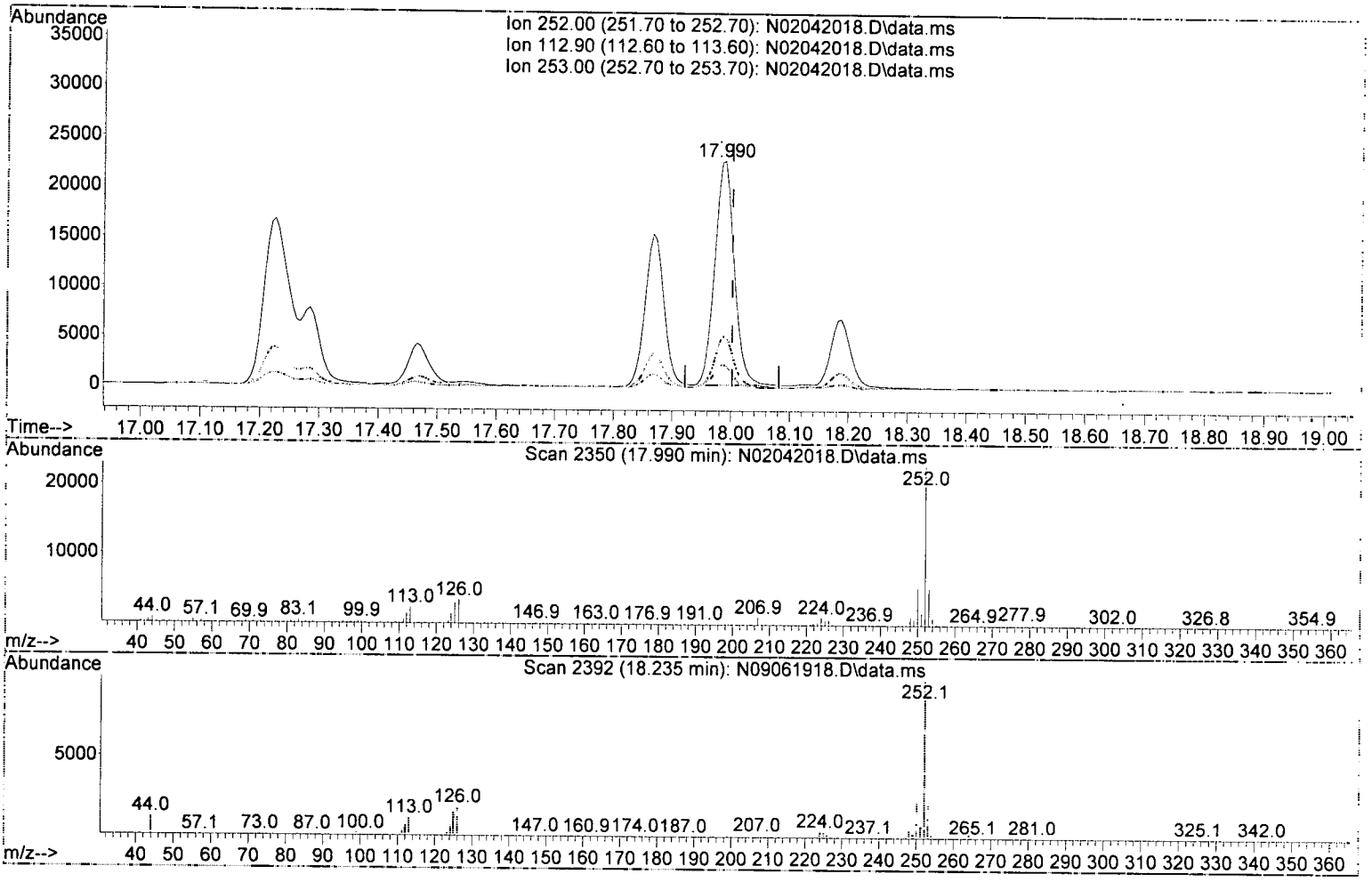
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.84
253.00	21.50	22.20
0.00	0.00	0.00

AMS 2/5/20
MOS

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(35) Benzo(a)pyrene (T)

17.990min (-0.012) 34.18 ng/ml

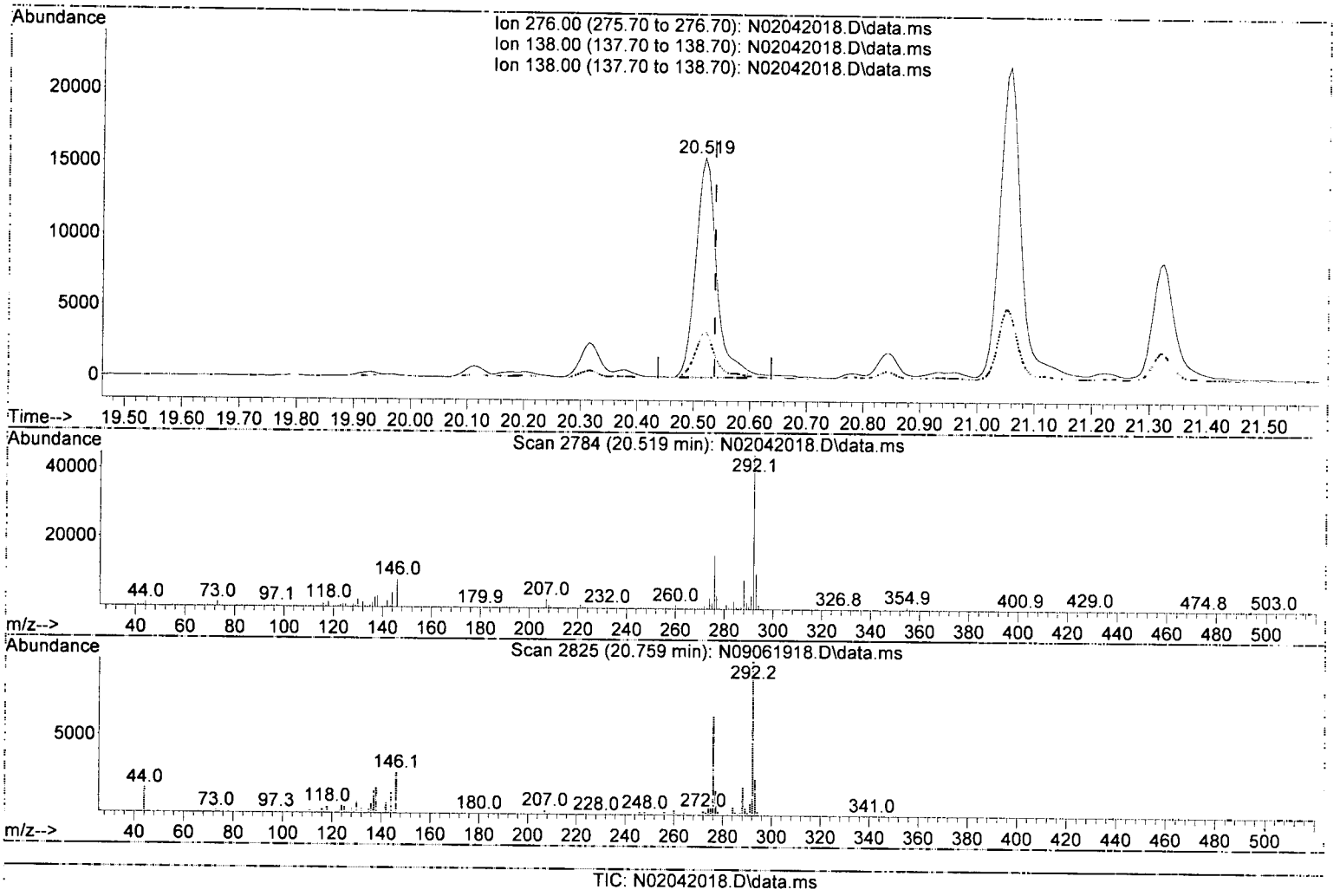
response 52406

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.10
253.00	21.90	23.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.519min (-0.018) 26.67 ng/ml

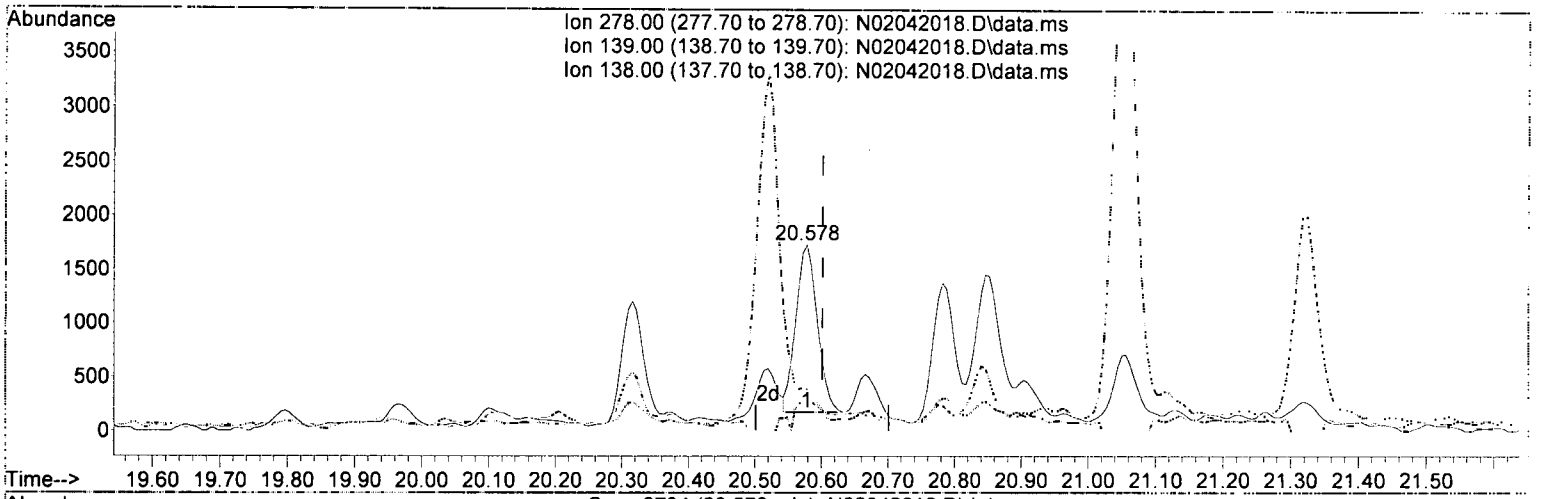
response 39476

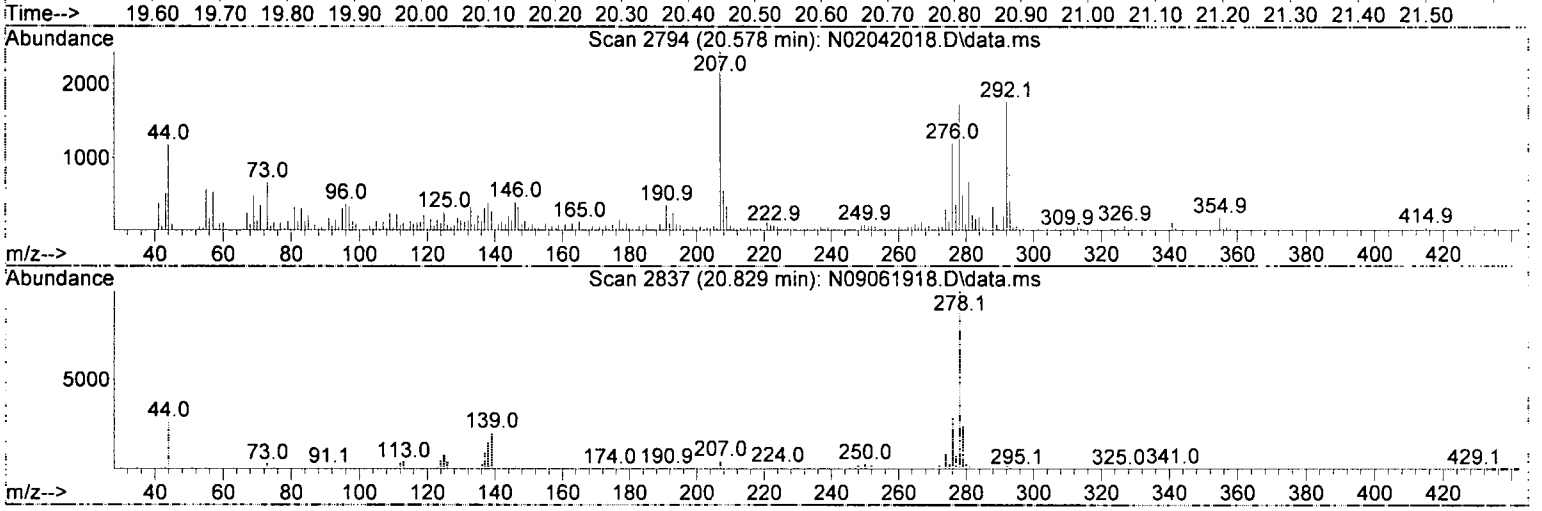
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	21.25
138.00	31.60	21.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02042018.D\data.ms

(39) Dibenz(a,h)anthracene (T)

20.578min (-0.024) 2.50 ng/ml

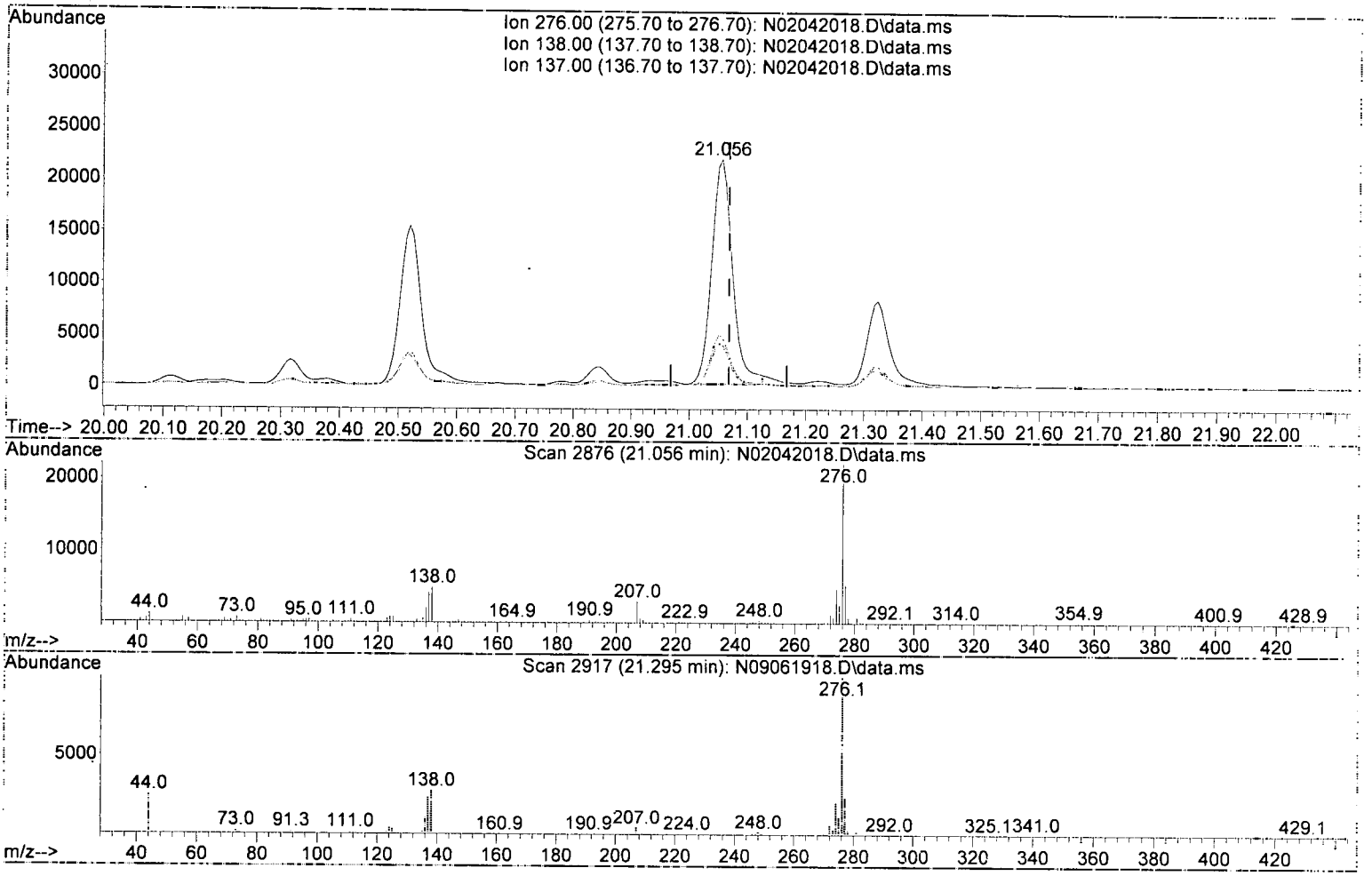
response 3478

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	16.01
138.00	19.90	22.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042018.D\data.ms

(40) Benzo(g,h,i)perylene (T)

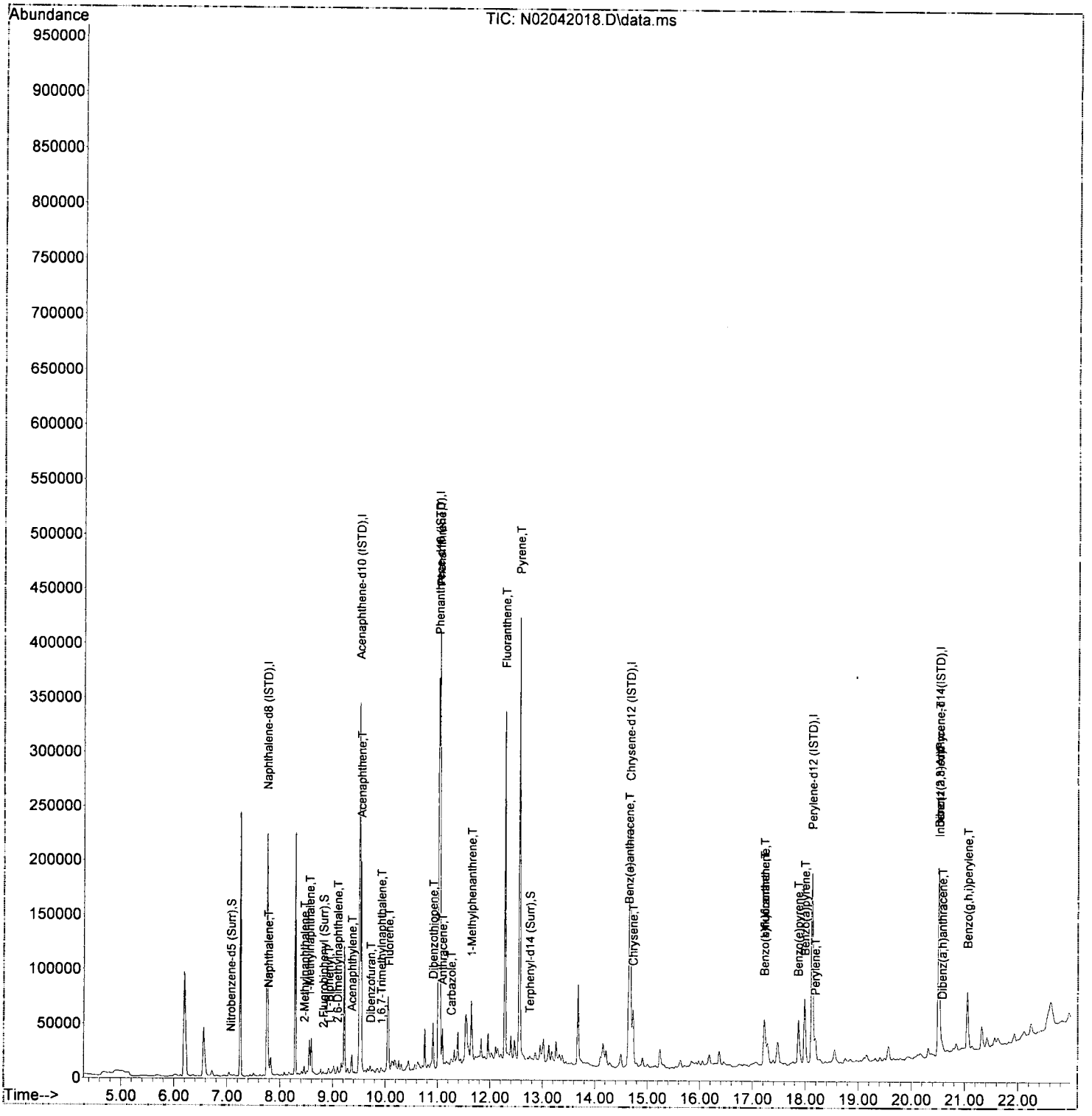
21.056min (-0.012) 34.69 ng/ml

response 54475

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	22.21
137.00	18.60	18.82
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B04047\
Data File : N02042018.D
Acq On : 04 Feb 2020 17:53
Operator : JK/ AMS/ DTH
Sample : A0A1011-05@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:27 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042019.D
Acq On : 04 Feb 2020 18:24
Operator : JK/ AMS/ DTH
Sample : 0020080-MS1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/5/20

Quant Time: Feb 05 08:47:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

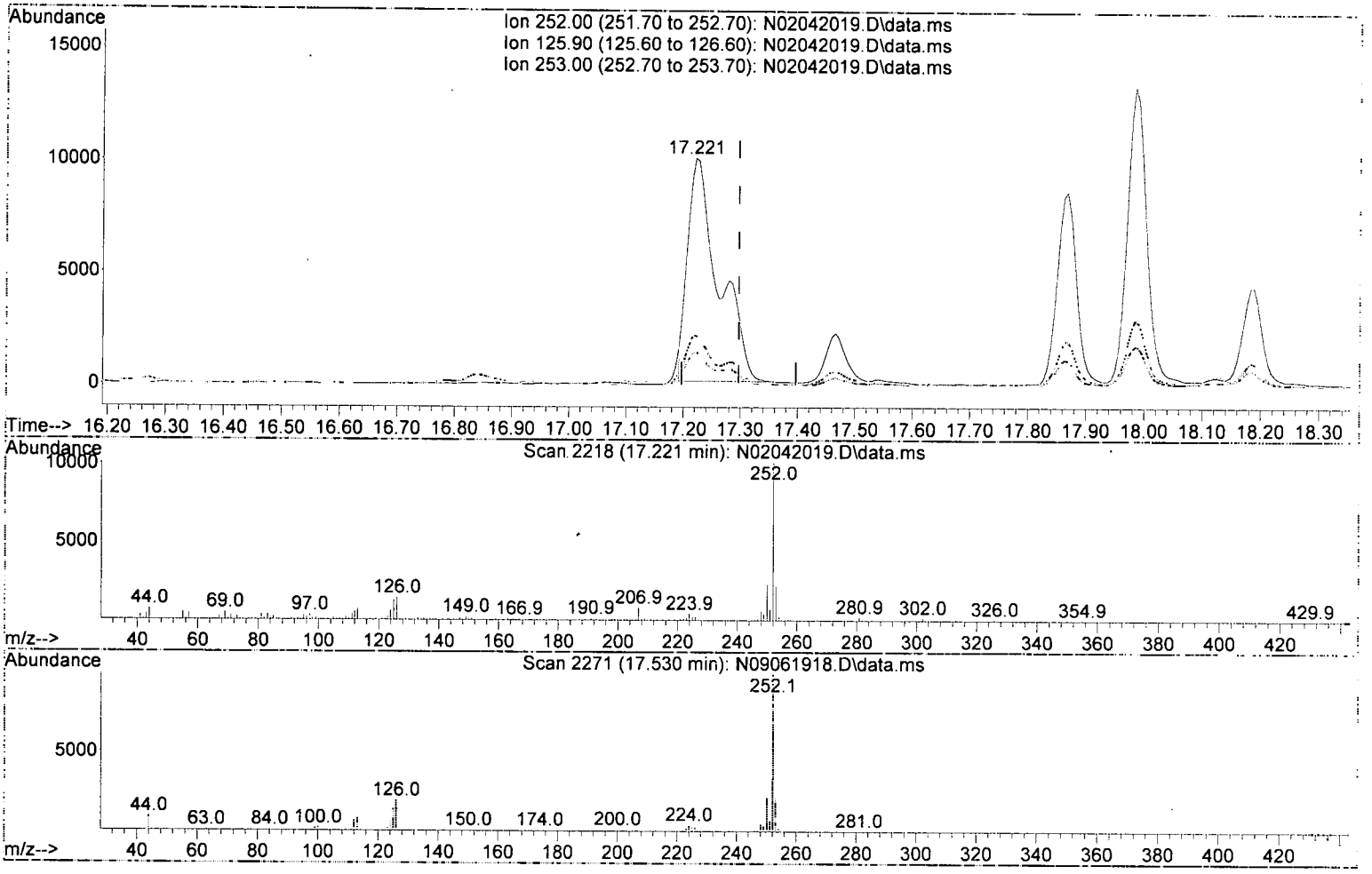
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	169744	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.504	162	106492	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	189597	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	158378	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	156254	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	132118	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	411	0.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	1382	0.87	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	3642	0.25	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	1497	0.90	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.773	128	19165	10.24	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	4781	3.01	ng/ml	99
6) 1-Methylnaphthalene	8.559	142	14578	9.19	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	3331	1.56	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.090	156	2792	1.79	ng/ml	92
12) Acenaphthylene	9.364	152	8280	3.58	ng/ml	98
13) Acenaphthene	9.539	153	67281	44.43	ng/ml	99
14) Dibenzofuran	9.713	168	2553	1.35	ng/ml	93
15) 1,6,7-Trimethylnaphtha...	9.923	170	1263	0.99	ng/ml	90
16) Fluorene	10.063	166	25629	16.54	ng/ml	100
18) Dibenzothiopene	10.908	184	22352	11.27	ng/ml	96
19) Phenanthrene	11.037	178	200800	90.51	ng/ml	100
20) Anthracene	11.089	178	16274	7.89	ng/ml	99
21) Carbazole	11.258	167	3822	2.29	ng/ml	96
22) 1-Methylphenanthrene	11.660	192	5484	3.56	ng/ml	86
23) Fluoranthene	12.284	202	150615	67.38	ng/ml	95
25) Pyrene	12.558	202	192035	77.61	ng/ml	99
27) Benz(a)anthracene	14.644	228	23009	12.51	ng/ml#	54
28) Chrysene	14.726	228	27858	16.01	ng/ml	99
30) Benzo(b)fluoranthene	~~17.221~~	~~252~~	~~29413~~	~~16.31~~	~~ng/ml~~	~~93~~ OK
31) Benzo(k)fluoranthene	~~17.221~~	~~252~~	~~37568~~	21.16	ng/ml	~~91~~ MI
32) Benzo(b+k)fluoranthene	17.221	252	41638	22.58	ng/ml	91
34) Benzo(e)pyrene	17.868	252	19979	10.96	ng/ml	98
35) Benzo(a)pyrene	17.984	252	30124	19.52	ng/ml	96
36) Perylene	18.188	252	10976	5.77	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	23086	14.17	ng/ml	80
39) Dibenz(a,h)anthracene	20.578	278	2518	1.64	ng/ml	88
40) Benzo(g,h,i)perylene	21.050	276	30776	17.80	ng/ml	98

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042019.D
Acq On : 04 Feb 2020 18:24
Operator : JK/ AMS/ DTH
Sample : 0020080-MS1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042019.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.221min (-0.076) 21.16 ng/ml

response 37568

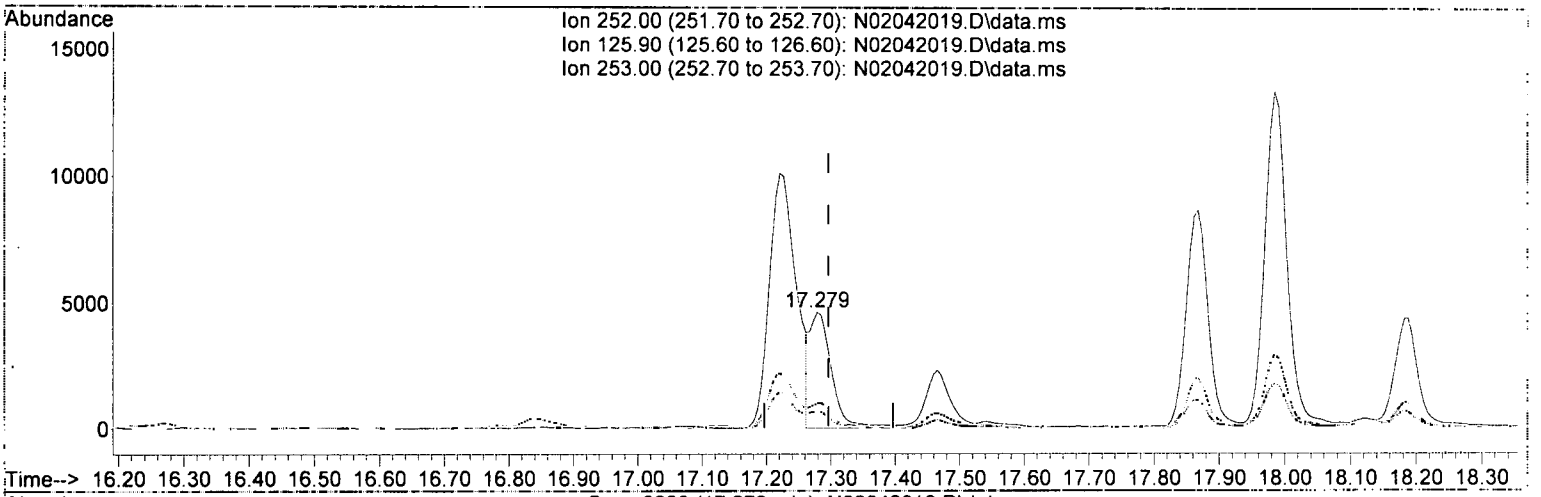
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.33
253.00	21.50	21.90
0.00	0.00	0.00

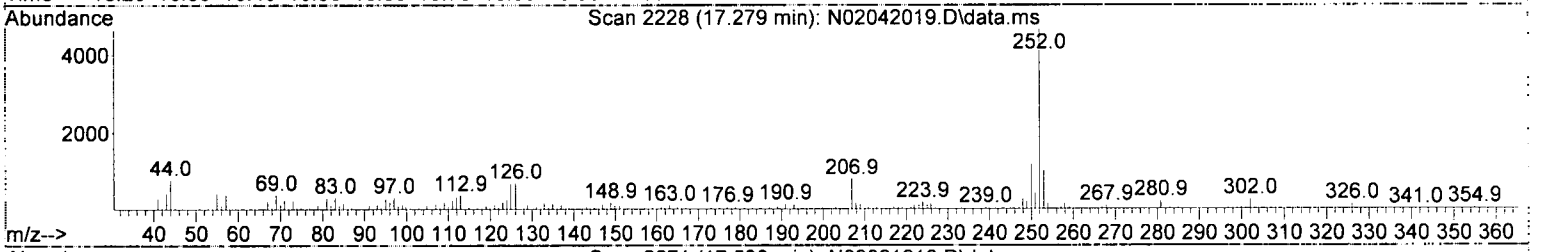
AMS 2/5/20

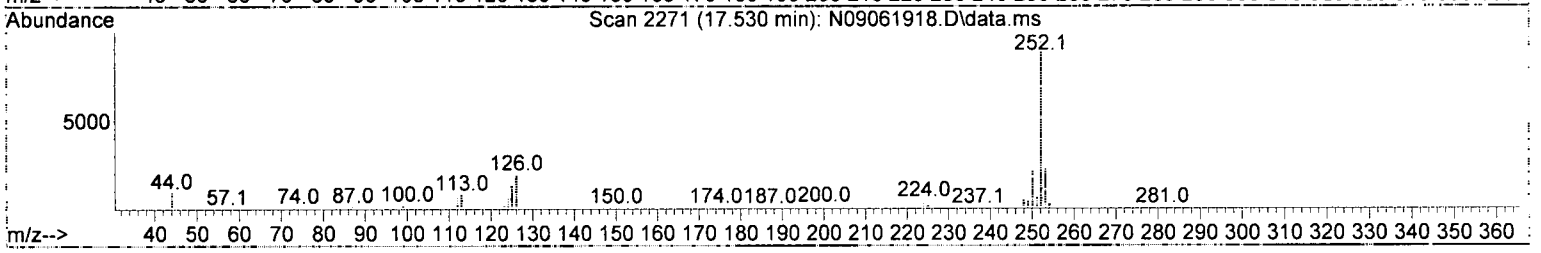
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042019.D
Acq On : 04 Feb 2020 18:24
Operator : JK/ AMS/ DTH
Sample : 0020080-MS1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042019.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.279min (-0.018) 5.96 ng/ml m

response 10577

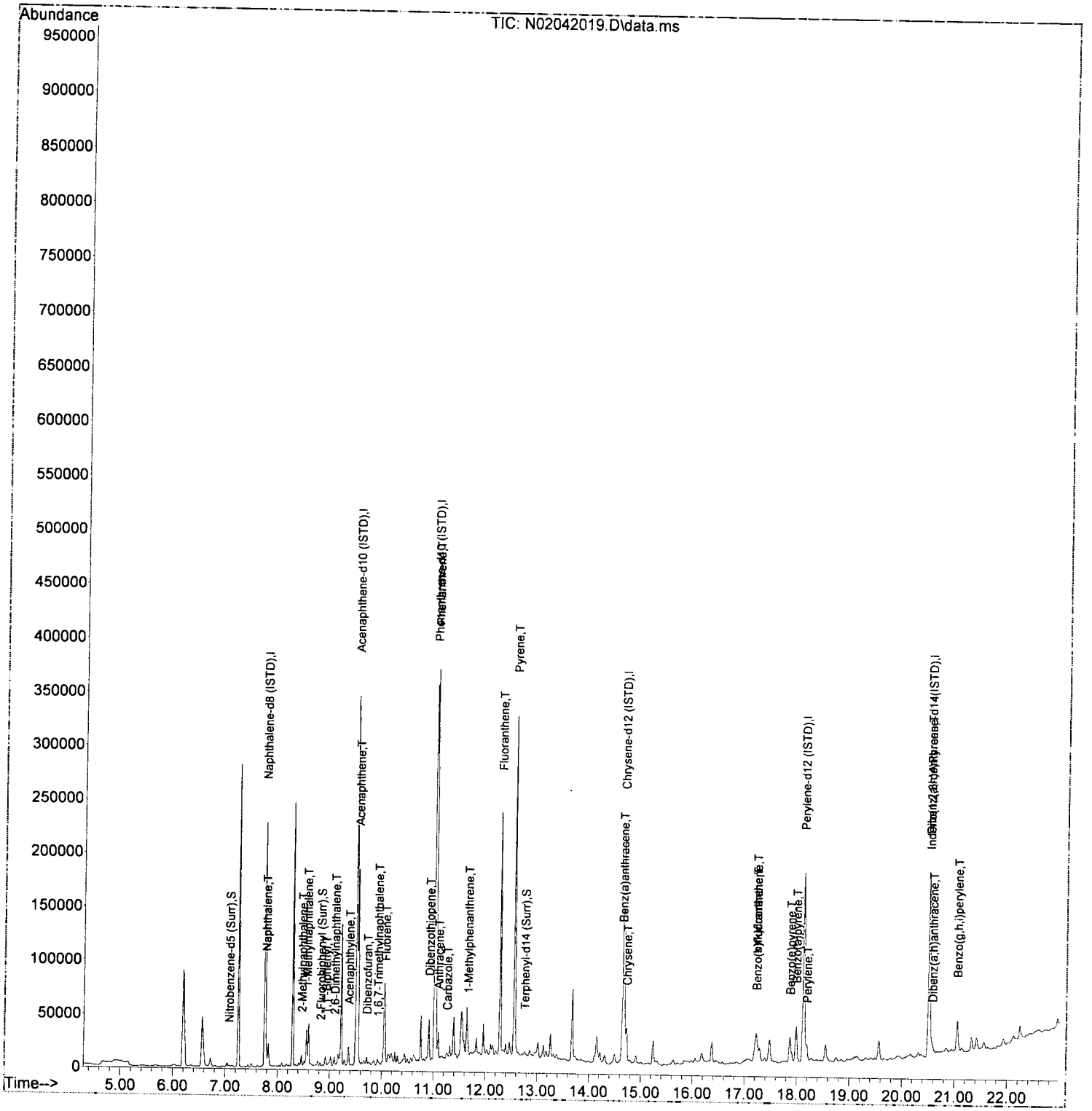
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.70
253.00	21.50	21.63
0.00	0.00	0.00

AMS 2/5/20

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042019.D
Acq On : 04 Feb 2020 18:24
Operator : JK/ AMS/ DTH
Sample : 0020080-MS1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:30 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042020.D
Acq On : 04 Feb 2020 18:56
Operator : JK/ AMS/ DTH
Sample : 0020080-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/5/20

Quant Time: Feb 05 08:47:33 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

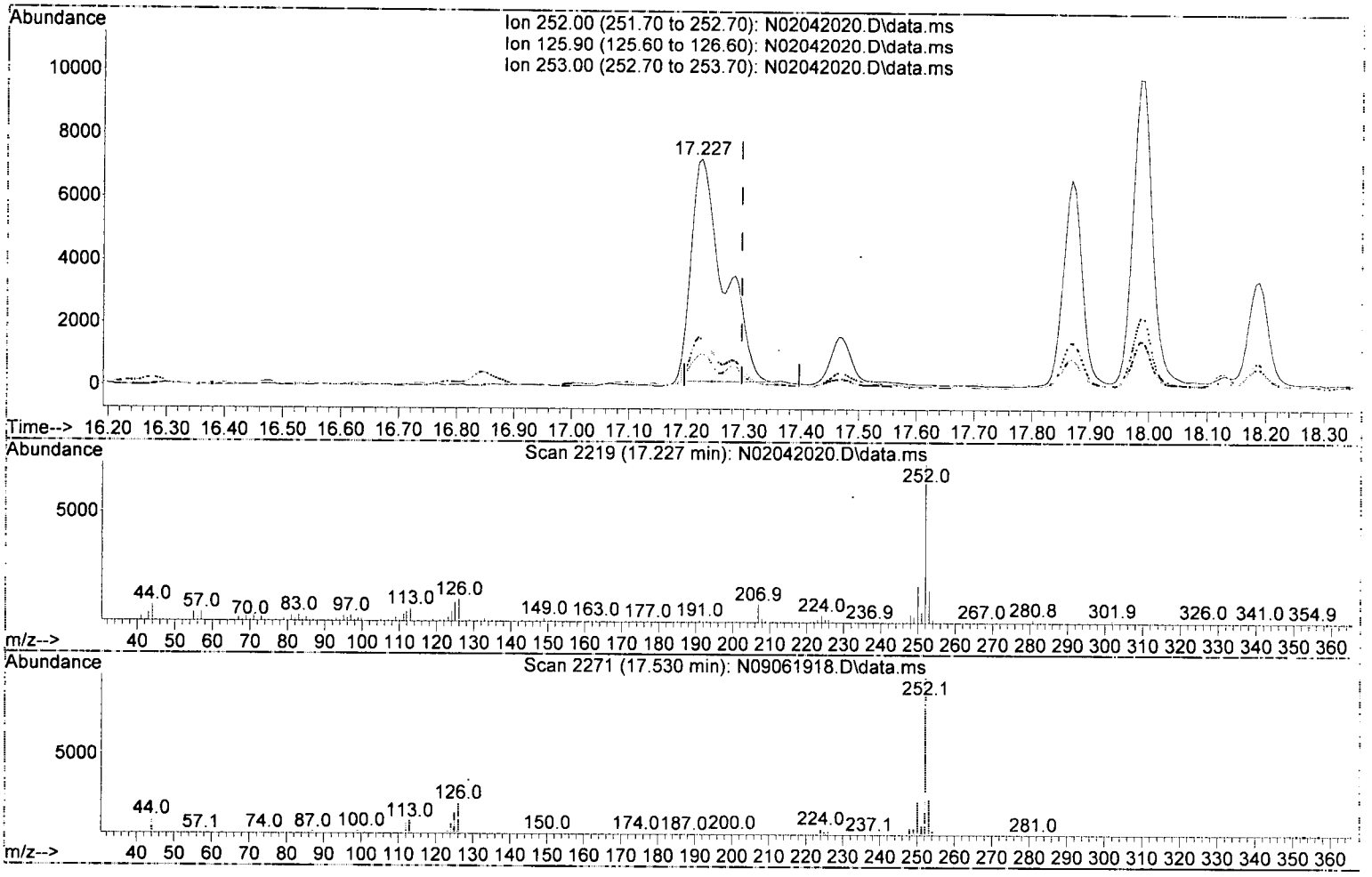
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	166605	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	105619	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	186699	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	158687	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	157969	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthrcene-d...	20.514	292	134654	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.079	82	346	0.62	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.822	172	996	0.63	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	4605	0.72	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	1390	0.83	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.778	128	12614	6.86	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	3352	2.15	ng/ml	97
6) 1-Methylnaphthalene	8.559	142	9457	6.07	ng/ml	96
7) 1,1'-Biphenyl	8.927	154	2678	1.28	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.090	156	1761	1.15	ng/ml	98
12) Acenaphthylene	9.364	152	6286	2.74	ng/ml	99
13) Acenaphthene	9.539	153	43726	29.11	ng/ml	99
14) Dibenzofuran	9.719	168	1605	0.85	ng/ml	94
15) 1,6,7-Trimethylnaphtha...	9.923	170	953	0.76	ng/ml	86
16) Fluorene	10.063	166	17079	11.11	ng/ml	98
18) Dibenzothiopene	10.908	184	17742	9.09	ng/ml	96
19) Phenanthrene	11.037	178	164601	75.34	ng/ml	99
20) Anthracene	11.089	178	12681	6.24	ng/ml	99
21) Carbazole	11.258	167	3619	2.20	ng/ml	93
22) 1-Methylphenanthrene	11.660	192	4942	3.26	ng/ml	94
23) Fluoranthene	12.284	202	126021	57.25	ng/ml	96
25) Pyrene	12.558	202	162572	65.57	ng/ml	99
27) Benz(a)anthracene	14.644	228	17456	9.47	ng/ml#	58
28) Chrysene	14.726	228	22067	12.66	ng/ml	99
30) Benzo(b)fluoranthene	17.227	252	22514	12.35	ng/ml	94
31) Benzo(k)fluoranthene	~~17.227~~	~~252~~	~~28075~~	~~15.64~~	~~ng/ml~~	~~91~~ MJ
32) Benzo(b+k)fluoranthene	17.227	252	31187	16.73	ng/ml	91
34) Benzo(e)pyrene	17.868	252	15191	8.24	ng/ml	99
35) Benzo(a)pyrene	17.984	252	22307	14.30	ng/ml	97
36) Perylene	18.188	252	8431	4.39	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.520	276	17465	10.52	ng/ml	84
39) Dibenz(a,h)anthracene	20.578	278	1978	1.27	ng/ml	85
40) Benzo(g,h,i)perylene	21.056	276	23184	13.16	ng/ml	97

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042020.D
Acq On : 04 Feb 2020 18:56
Operator : JK/ AMS/ DTH
Sample : 0020080-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:33 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042020.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.227min (-0.070) 15.64 ng/ml

response 28075

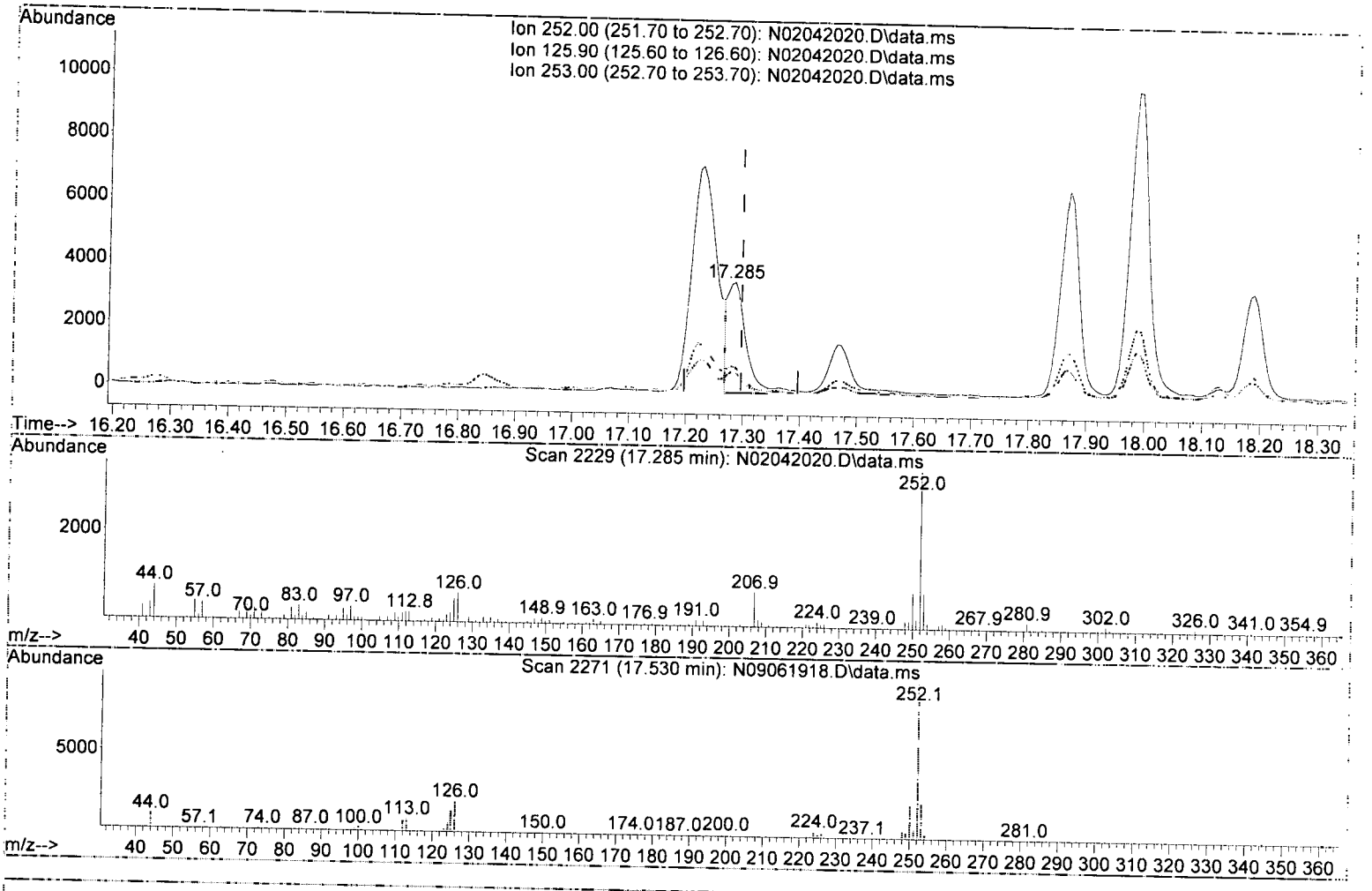
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.33
253.00	21.50	20.81
0.00	0.00	0.00

AMS 2/5/20

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042020.D
Acq On : 04 Feb 2020 18:56
Operator : JK/ AMS/ DTH
Sample : 0020080-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:33 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042020.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.285min (-0.012) 4.19 ng/ml m

response 7512

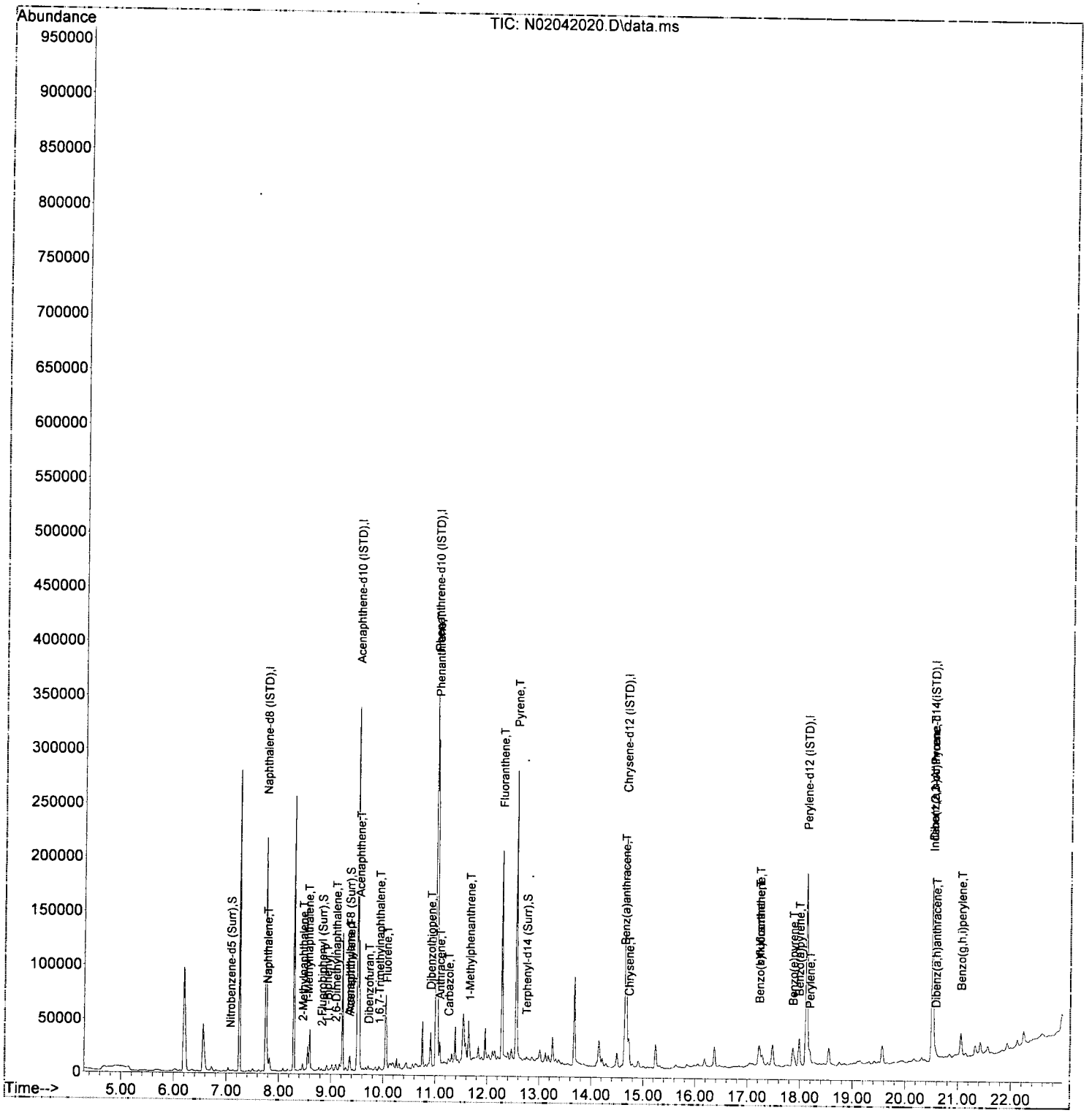
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	18.88
253.00	21.50	22.72
0.00	0.00	0.00

AMS 2/5/20

No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042020.D
Acq On : 04 Feb 2020 18:56
Operator : JK/ AMS/ DTH
Sample : 0020080-MSD1@100
Misc : 100x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:33 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



No Name Entered Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

AMS 2/5/20

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	171523	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	111454	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	195002	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	146691	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	134987	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthrcene-d...	20.514	292	99404	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.067	82	42023	73.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.822	172	139039	83.62	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	3593	0.15	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.756	244	140912	91.34	ng/ml	-0.01
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.225	138	130	1.02	ng/ml#	56
4) Naphthalene	7.773	128	79724	42.14	ng/ml	99
5) 2-Methylnaphthalene	8.460	142	70974	44.27	ng/ml	98
6) 1-Methylnaphthalene	8.559	142	98265	61.31	ng/ml	97
7) 1,1'-Biphenyl	8.921	154	6164	2.86	ng/ml	94
8) 2,6-Dimethylnaphthalene	9.090	156	18358	11.66	ng/ml	99
12) Acenaphthylene	9.364	152	16887	6.98	ng/ml	93
13) Acenaphthene	9.539	153	225813	142.48	ng/ml	100
14) Dibenzofuran	9.713	168	14297	7.20	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	9.923	170	3259	2.45	ng/ml	88
16) Fluorene	10.063	166	79306	48.90	ng/ml	99
18) Dibenzothiopene	10.908	184	59412	29.13	ng/ml	97
19) Phenanthrene	11.037	178	395166	173.18	ng/ml	100
20) Anthracene	11.089	178	16864	7.95	ng/ml	98
21) Carbazole	11.258	167	65901	38.37	ng/ml	99
22) 1-Methylphenanthrene	11.660	192	4499	2.84	ng/ml	93
23) Fluoranthene	12.284	202	83844	36.47	ng/ml	96
25) Pyrene	12.558	202	125152	54.61	ng/ml	99
27) Benz(a)anthracene	14.644	228	8550	5.02	ng/ml#	48
28) Chrysene	14.726	228	12558	7.79	ng/ml	99
30) Benzo(b)fluoranthene	17.227	252	11963	7.68	ng/ml	93
31) Benzo(k)fluoranthene	17.227	252	14684	9.57	ng/ml	91
32) Benzo(b+k)fluoranthene	17.227	252	16794	10.54	ng/ml	91
34) Benzo(e)pyrene	17.868	252	8731	5.54	ng/ml	98
35) Benzo(a)pyrene	17.990	252	11150	8.36	ng/ml	94
36) Perylene	18.188	252	10381	6.32	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	9706	7.92	ng/ml	80
39) Dibenz(a,h)anthracene	20.578	278	877	0.76	ng/ml	88
40) Benzo(g,h,i)perylene	21.056	276	12387	9.52	ng/ml	95

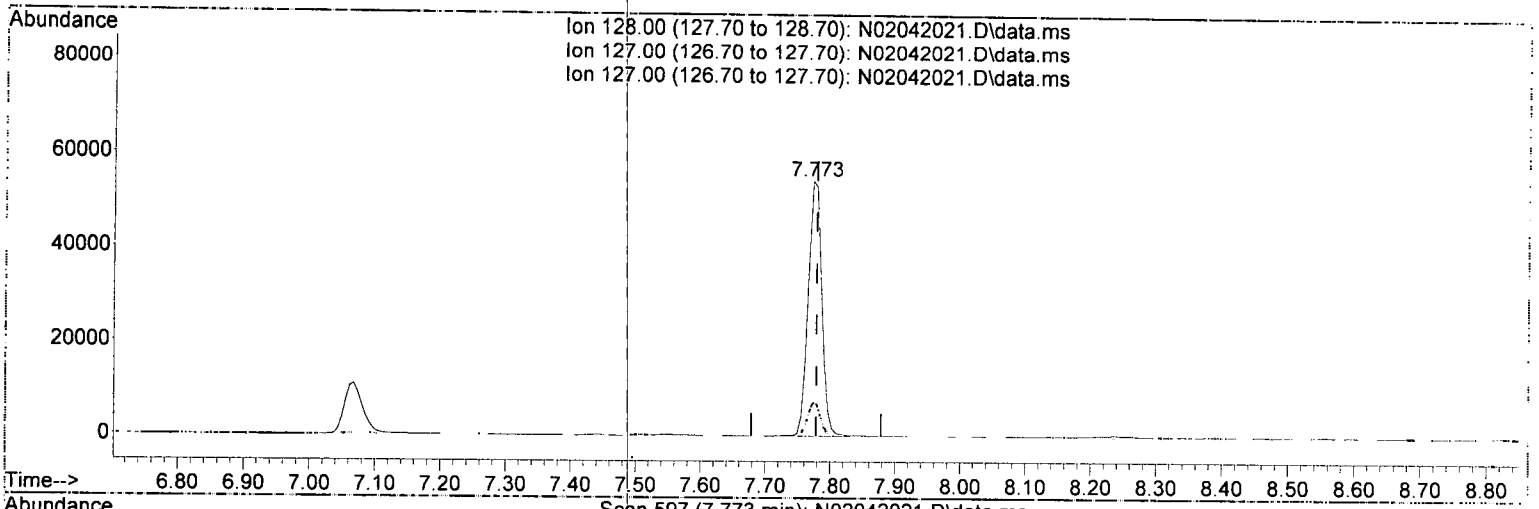
MI-J

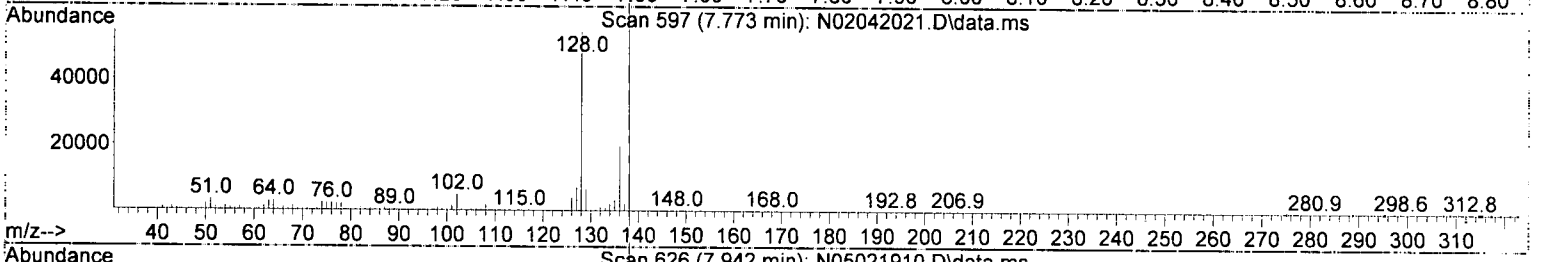
(#) = qualifier out of range (m) = manual integration (+) = signals summed

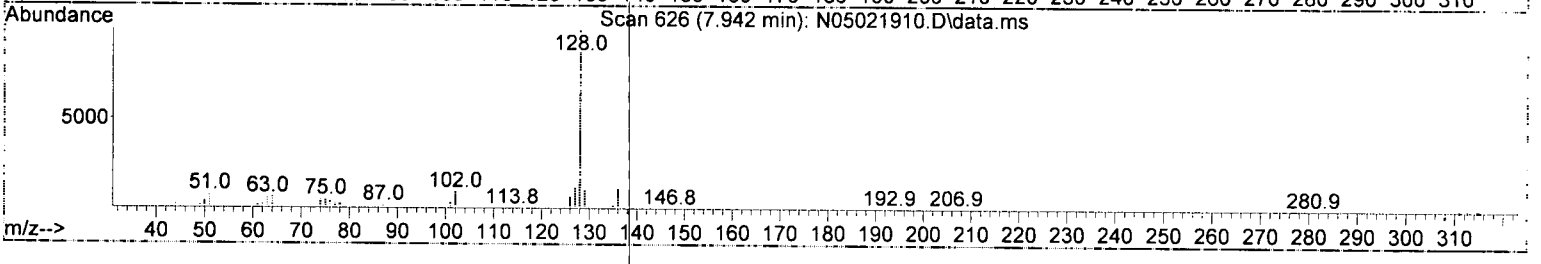
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042021.D\data.ms

(4) Naphthalene (T)

7.773min (-0.006) 42.14 ng/ml

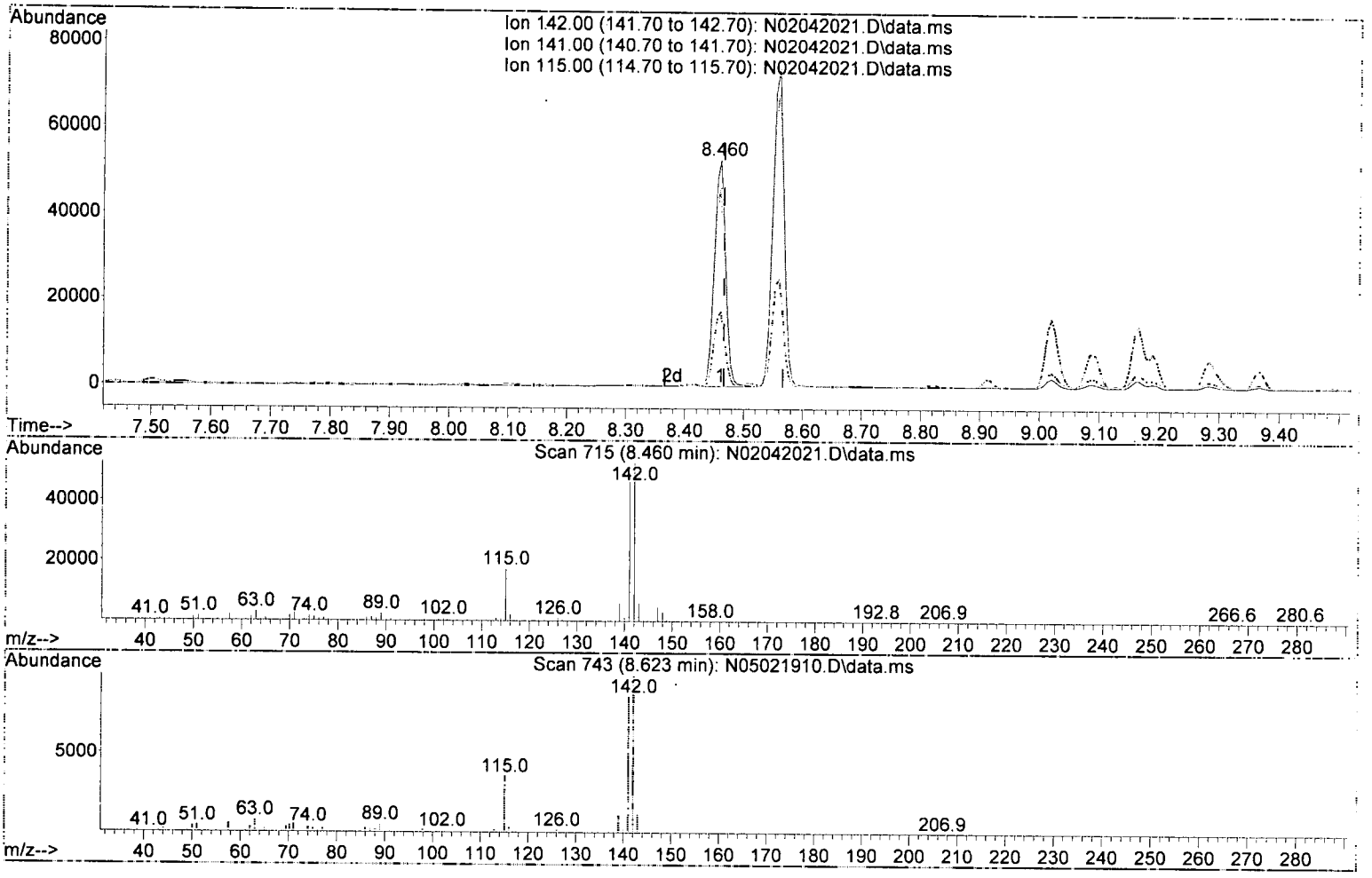
response 79724

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.05
127.00	12.60	13.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(5) 2-Methylnaphthalene (T)

8.460min (-0.006) 44.27 ng/ml

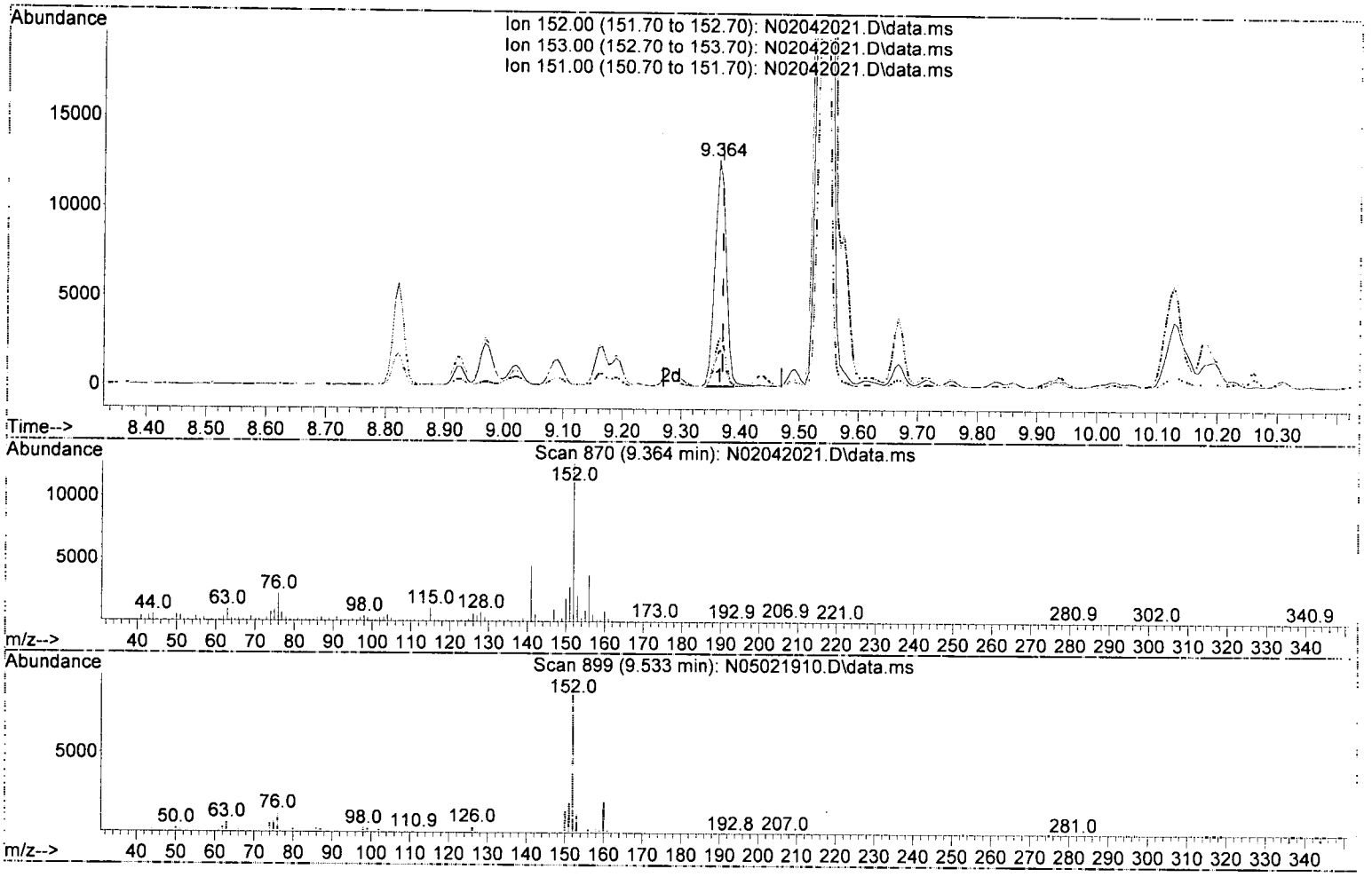
response 70974

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	87.94
115.00	35.70	32.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(12) Acenaphthylene (T)

9.364min (-0.006) 6.98 ng/ml

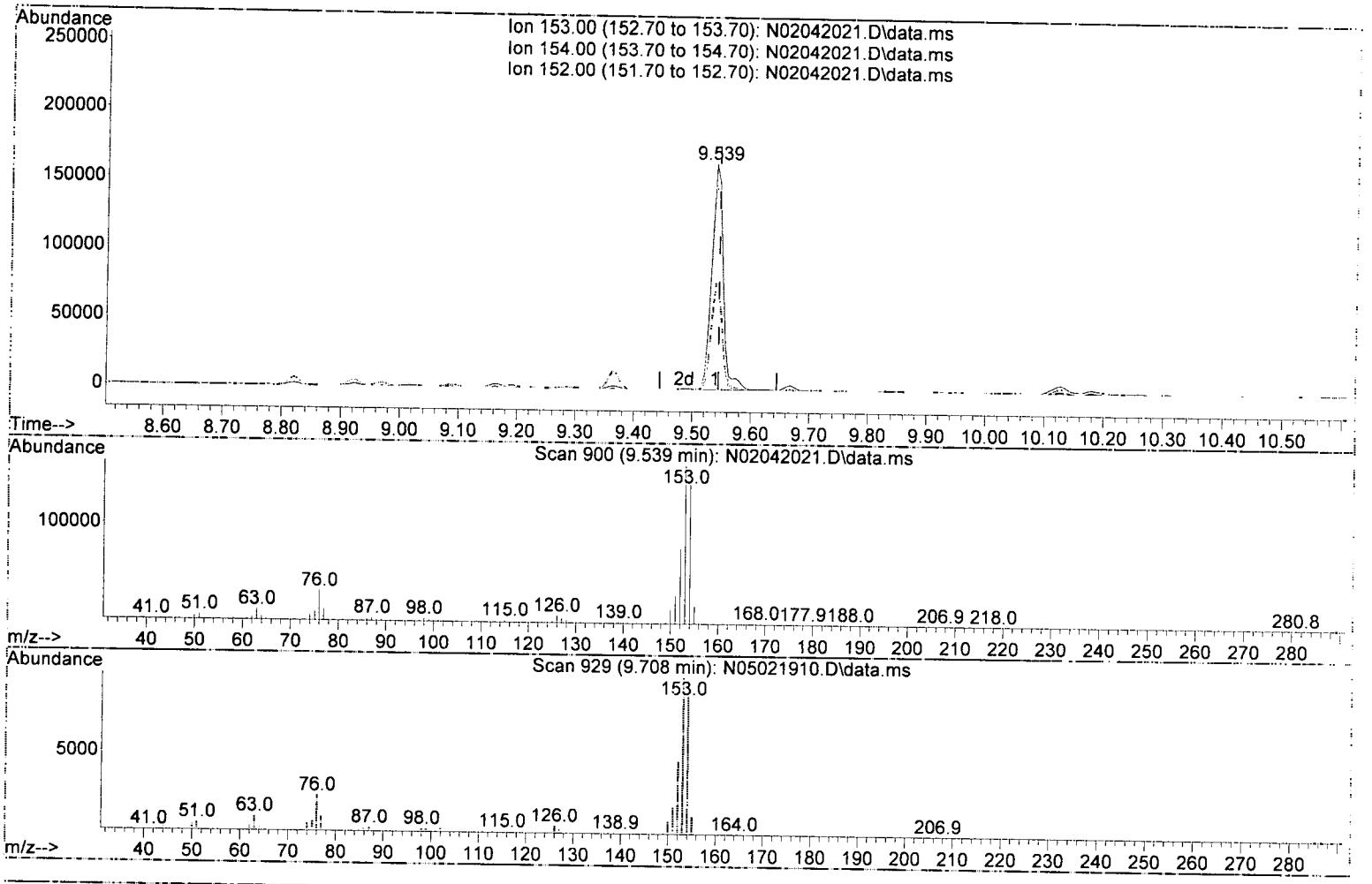
response 16887

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	16.22
151.00	19.30	21.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(13) Acenaphthene (T)

9.539min (-0.006) 142.48 ng/ml

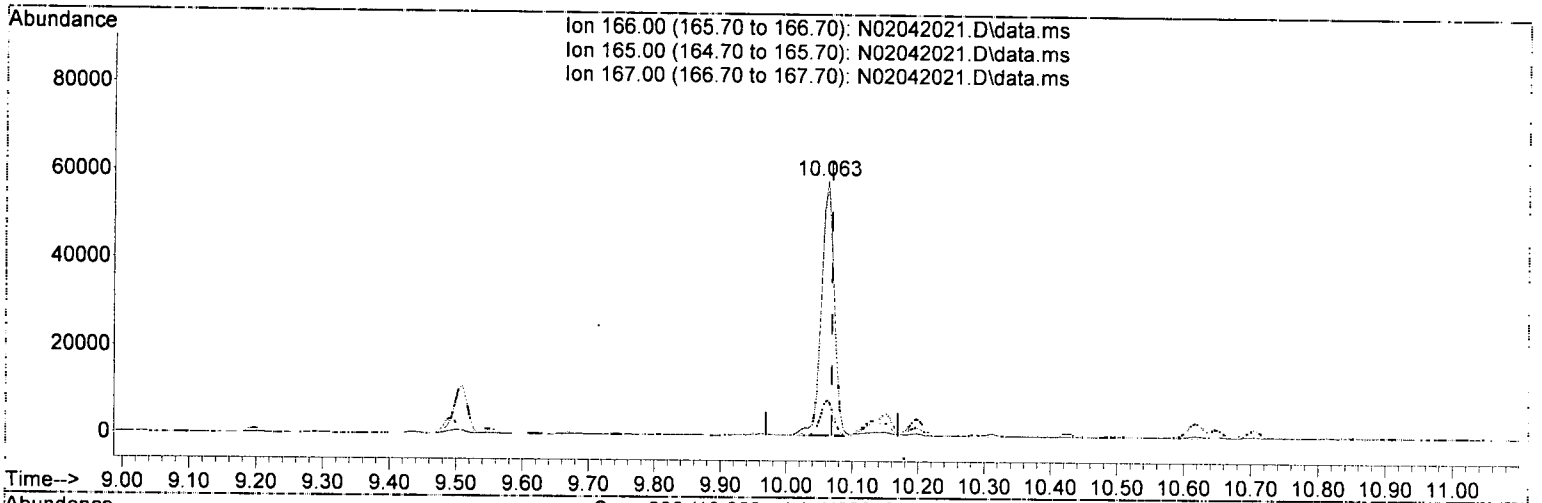
response 225813

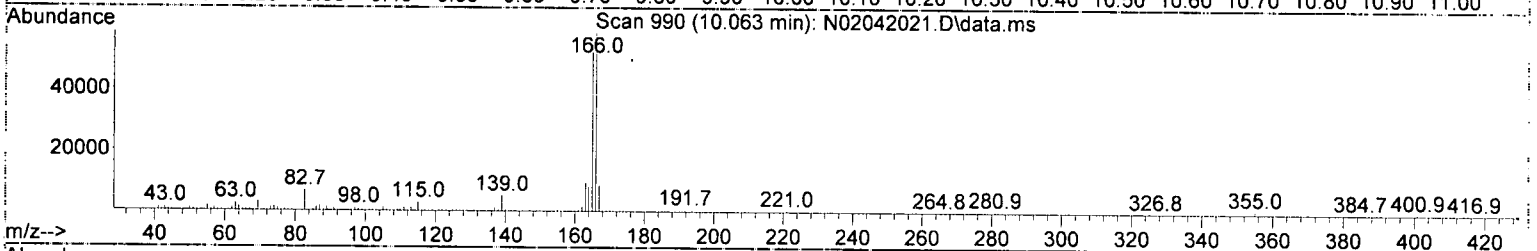
Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.43
152.00	46.80	47.39
0.00	0.00	0.00

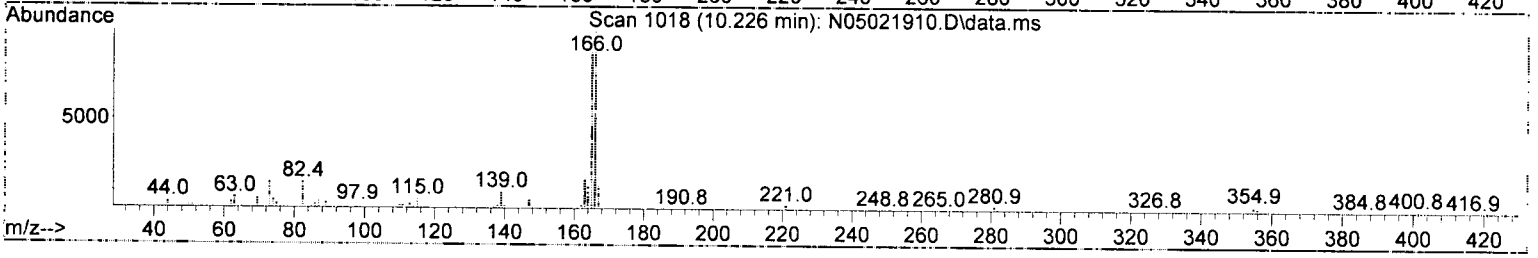
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042021.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 48.90 ng/ml

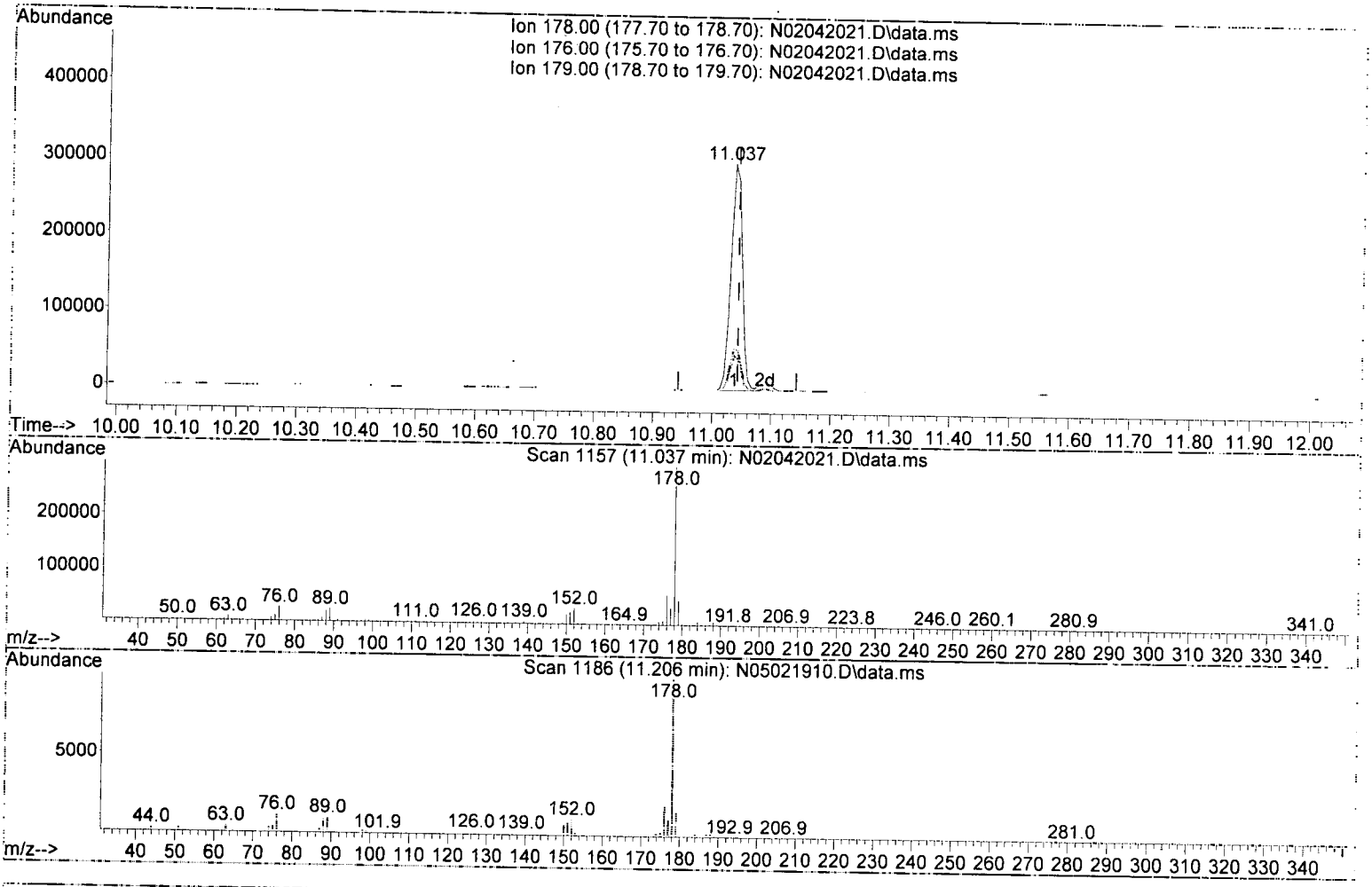
response 79306

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	96.12
167.00	13.60	14.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(19) Phenanthrene (T)

11.037min (-0.006) 173.18 ng/ml

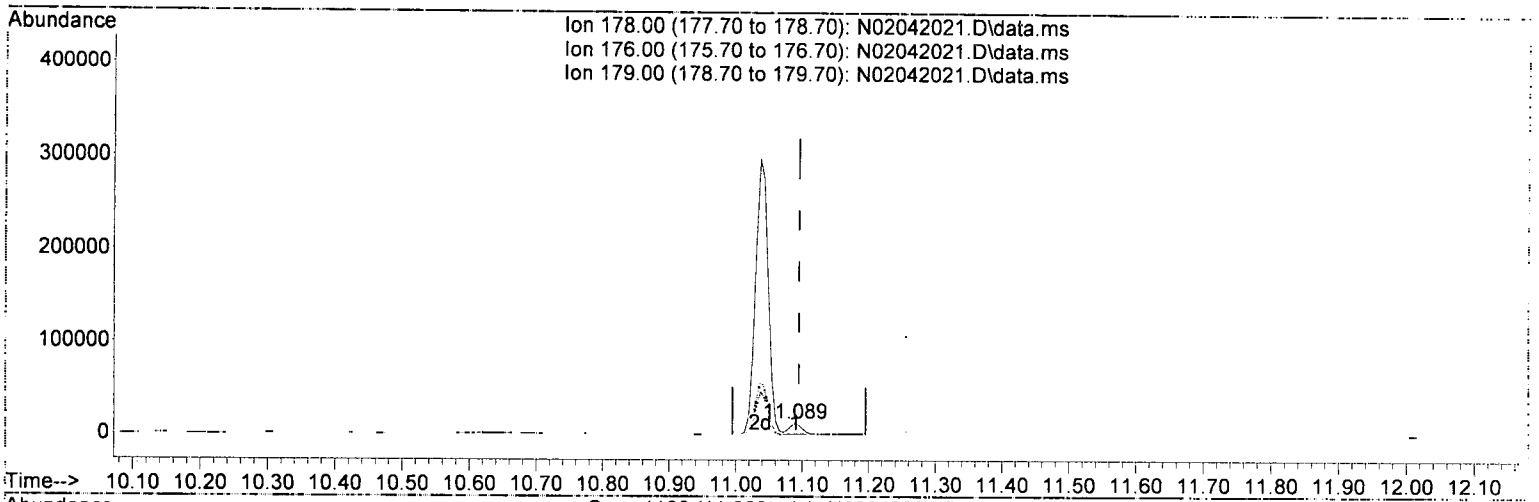
response 395166

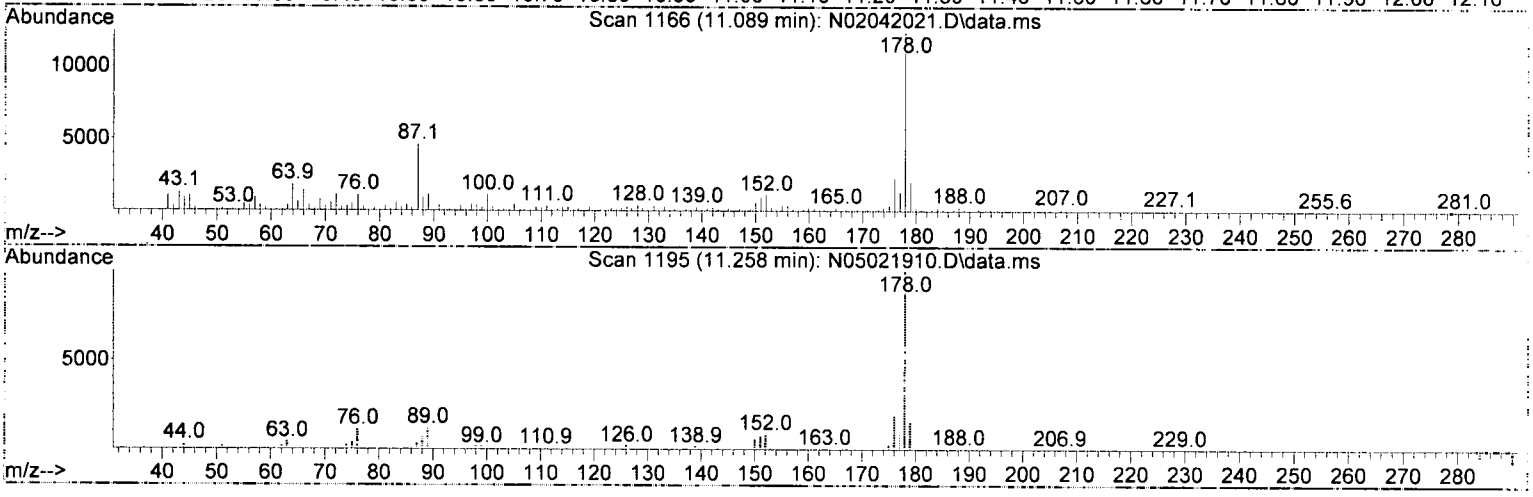
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.02
179.00	15.10	15.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02042021.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 7.95 ng/ml

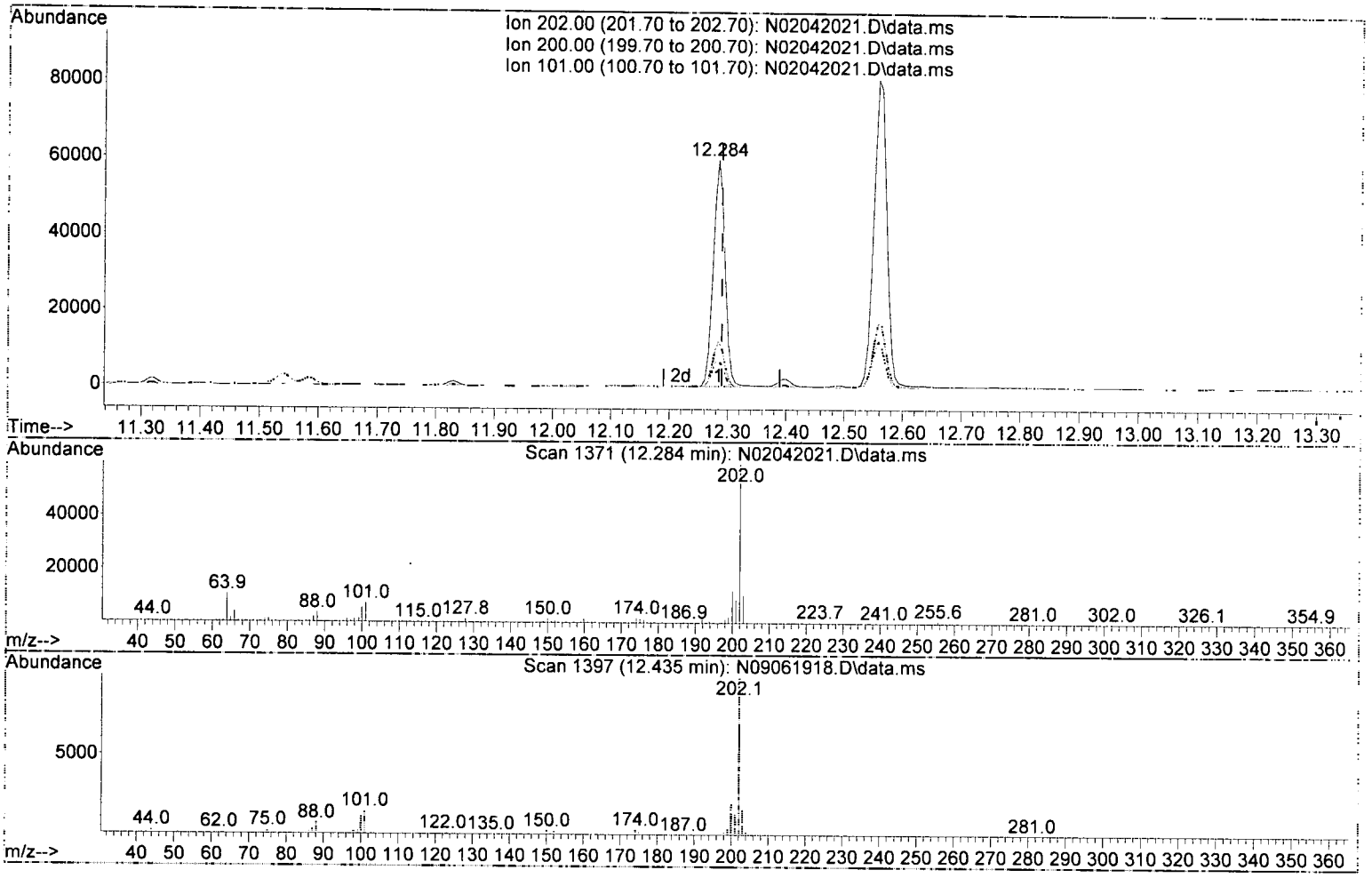
response 16864

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.38
179.00	15.30	16.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 36.47 ng/ml

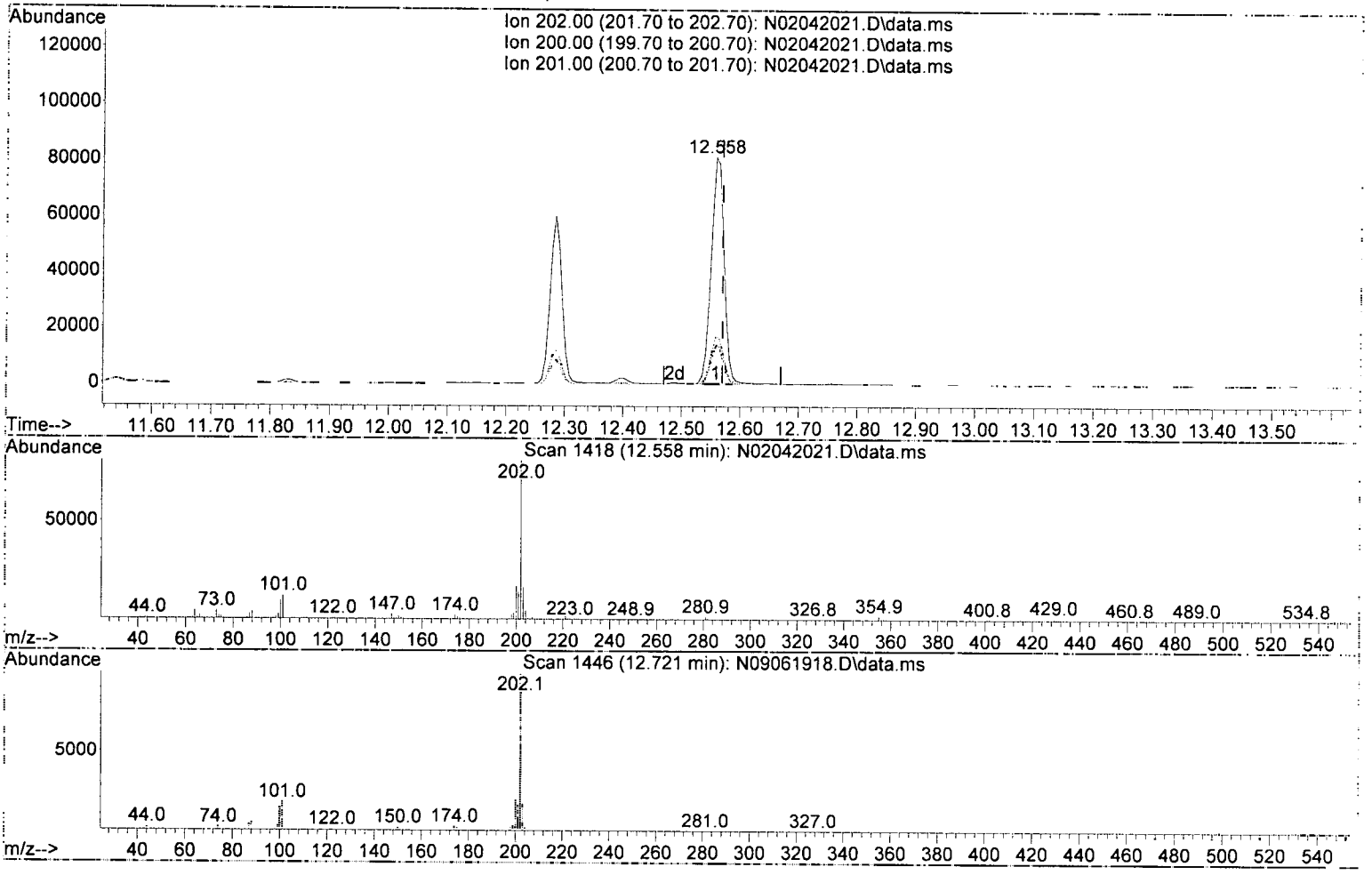
response 83844

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.15
101.00	15.30	11.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(25) Pyrene (T)

12.558min (-0.012) 54.61 ng/ml

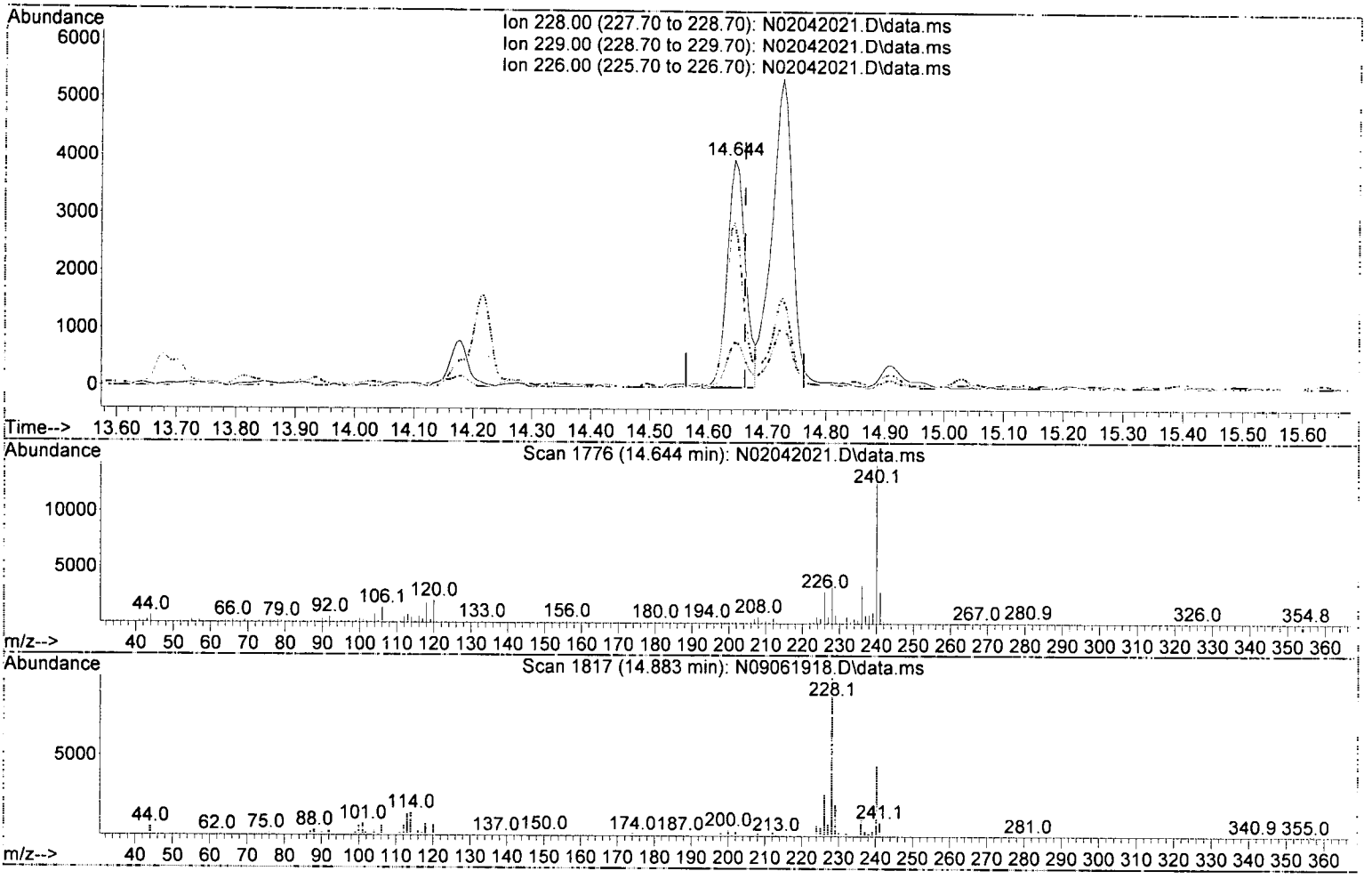
response 125152

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.93
201.00	16.80	17.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(27) Benz(a)anthracene (T)

14.644min (-0.018) 5.02 ng/ml

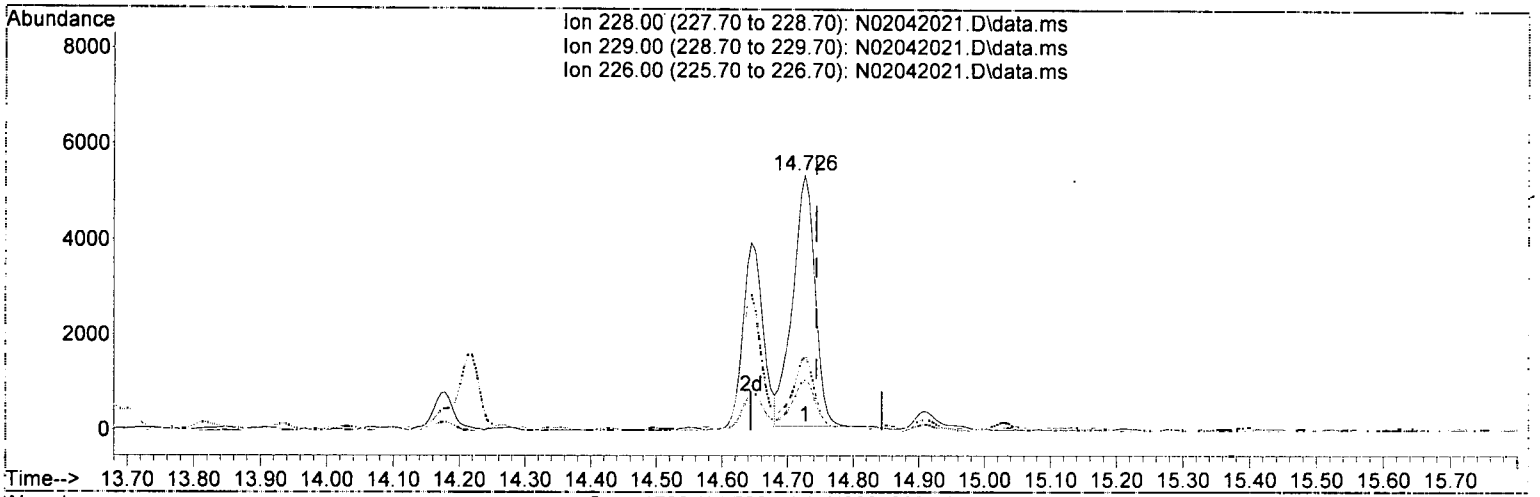
response 8550

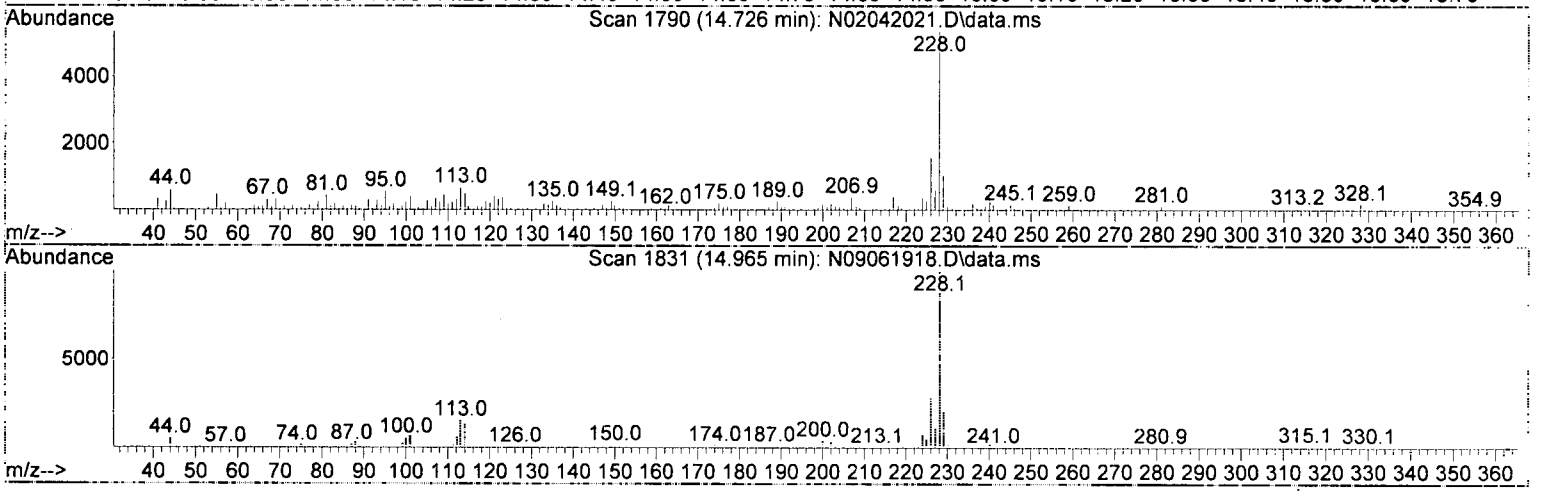
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	19.61
226.00	26.20	72.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14





TIC: N02042021.D\data.ms

(28) Chrysene (T)

14.726min (-0.018) 7.79 ng/ml

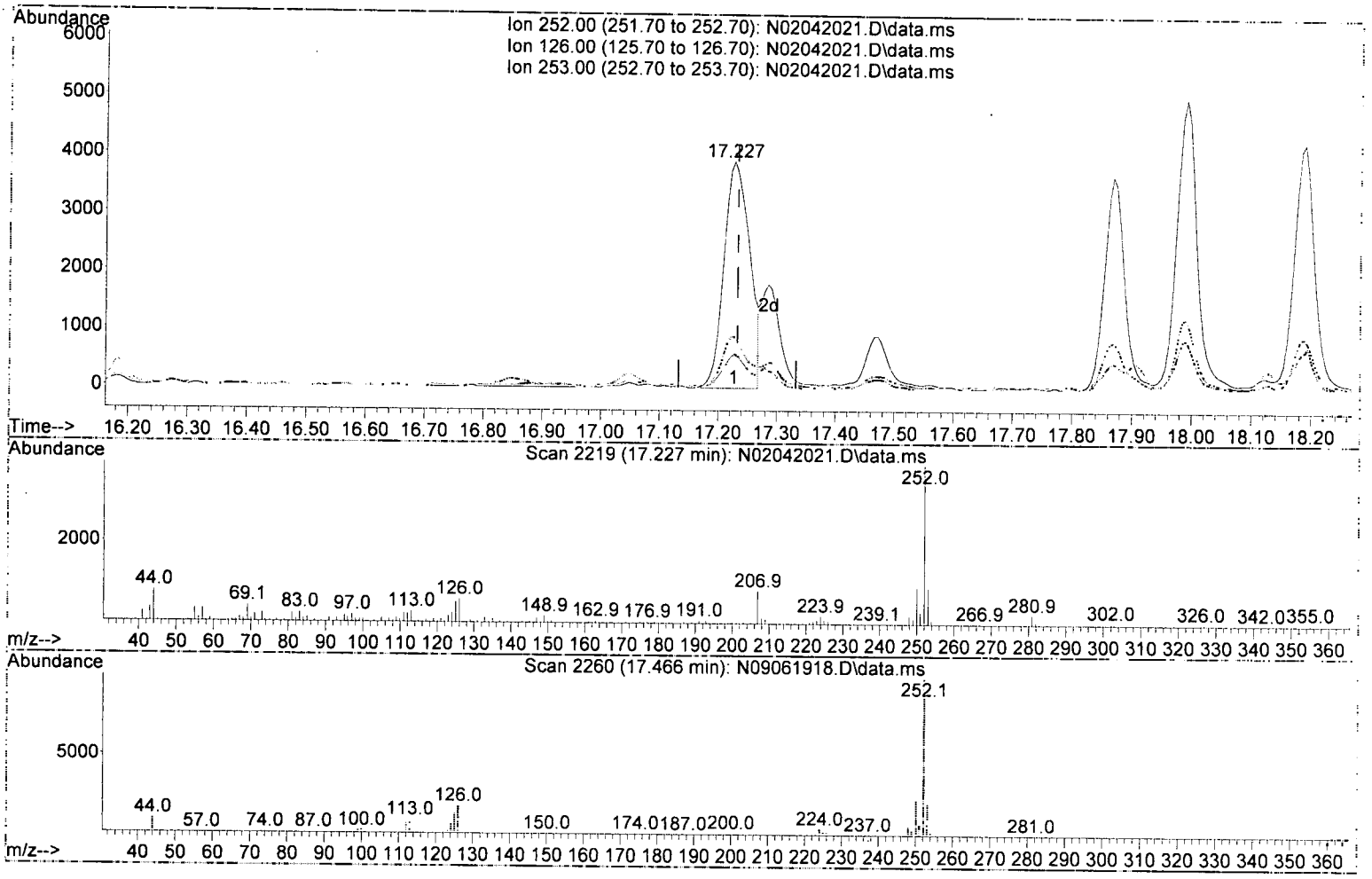
response 12558

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	19.69
226.00	28.60	29.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.227min (-0.006) 7.68 ng/ml

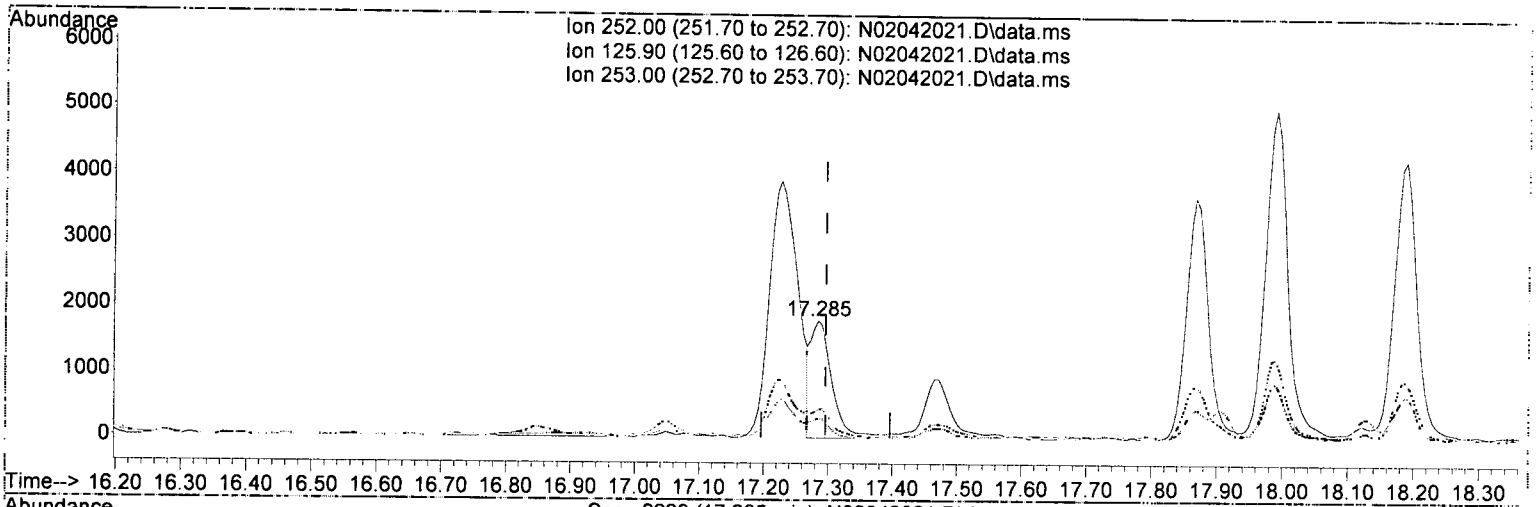
response 11963

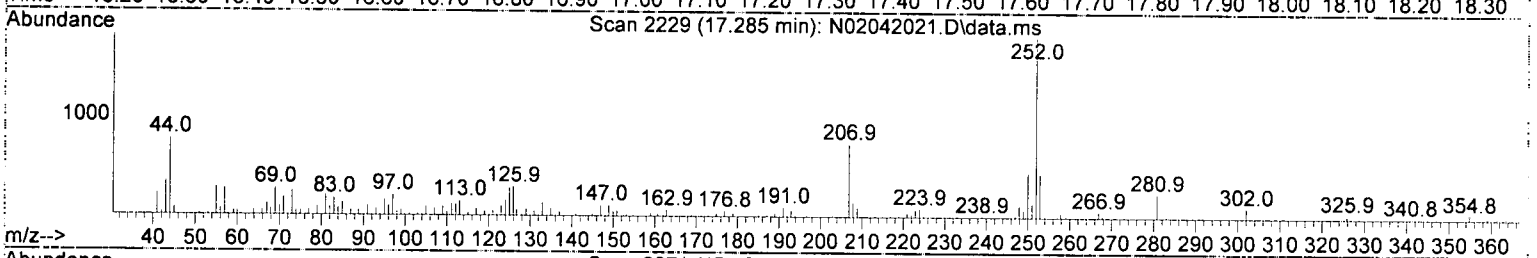
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.08
253.00	21.10	22.89
0.00	0.00	0.00

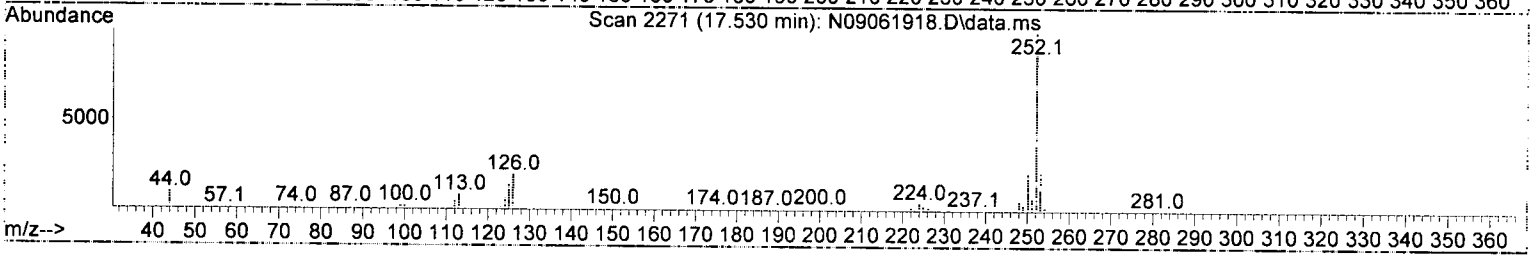
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042021.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.285min (-0.012) 2.57 ng/ml m

response 3947

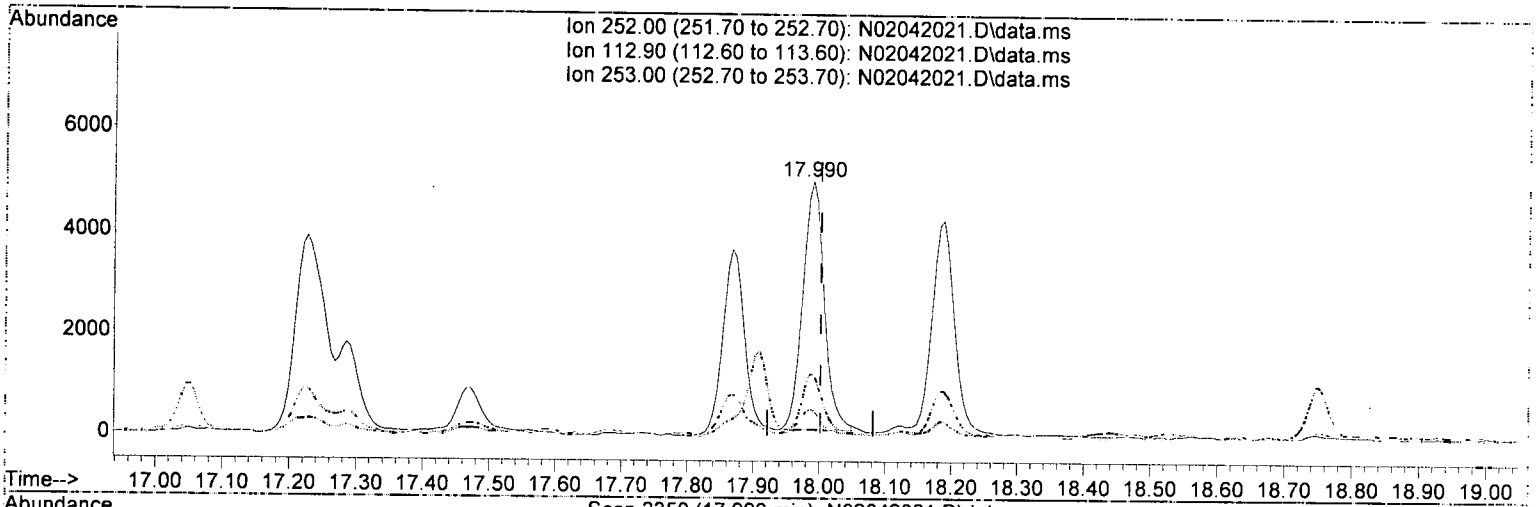
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.82
253.00	21.50	24.69
0.00	0.00	0.00

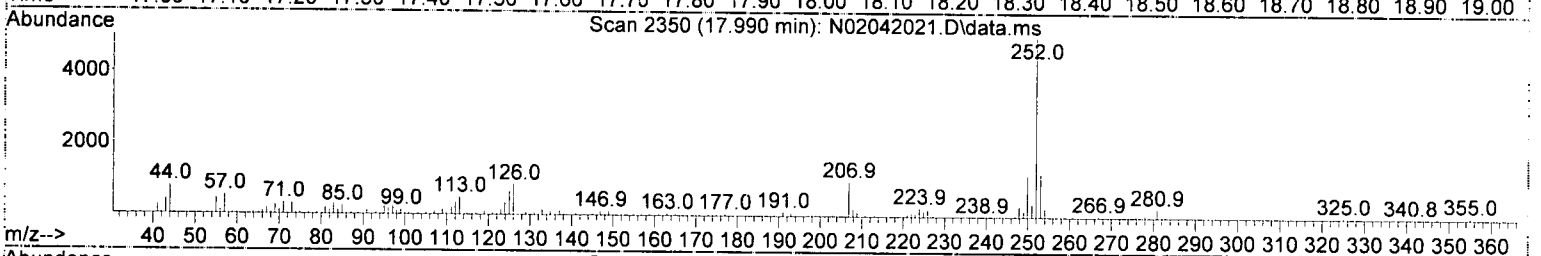
AMS 2/5/20

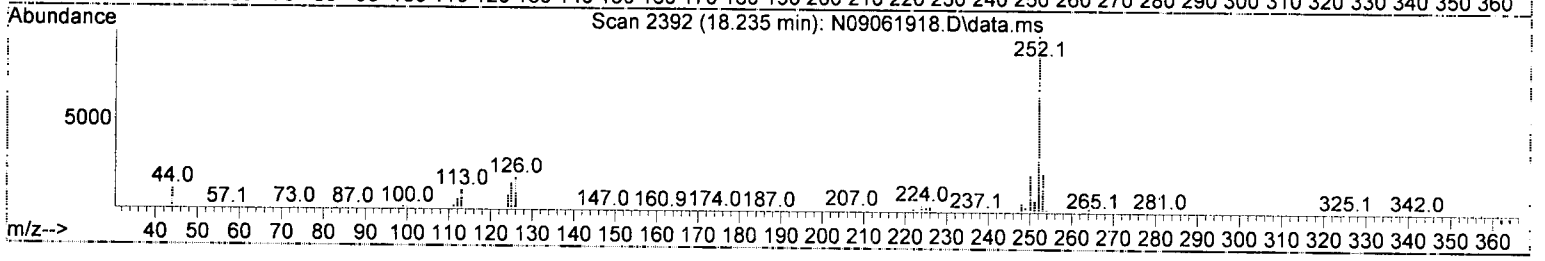
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042021.D\data.ms

(35) Benzo(a)pyrene (T)

17.990min (-0.012) 8.36 ng/ml

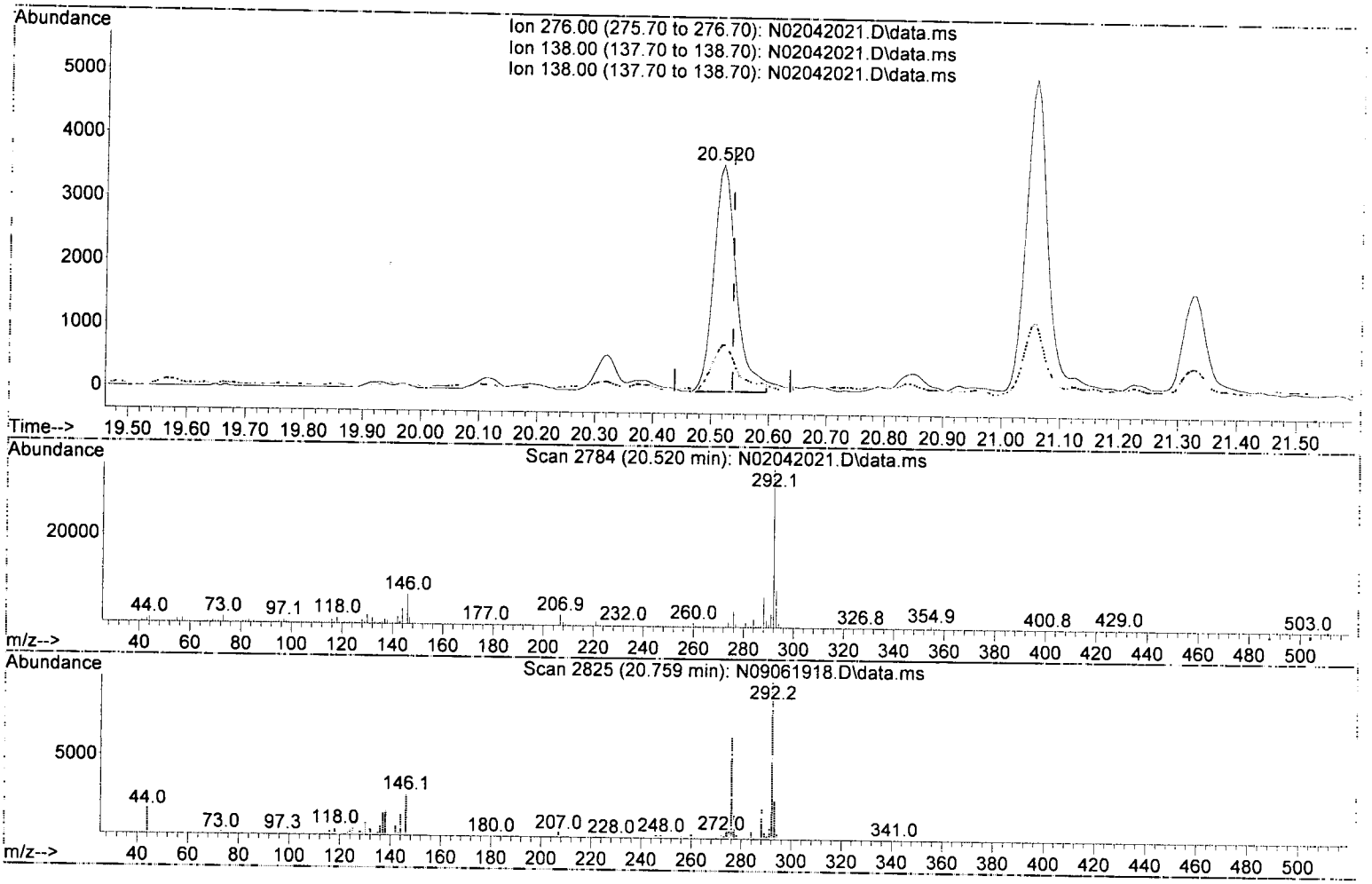
response 11150

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.16
253.00	21.90	24.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N02042021.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.520min (-0.017) 7.92 ng/ml

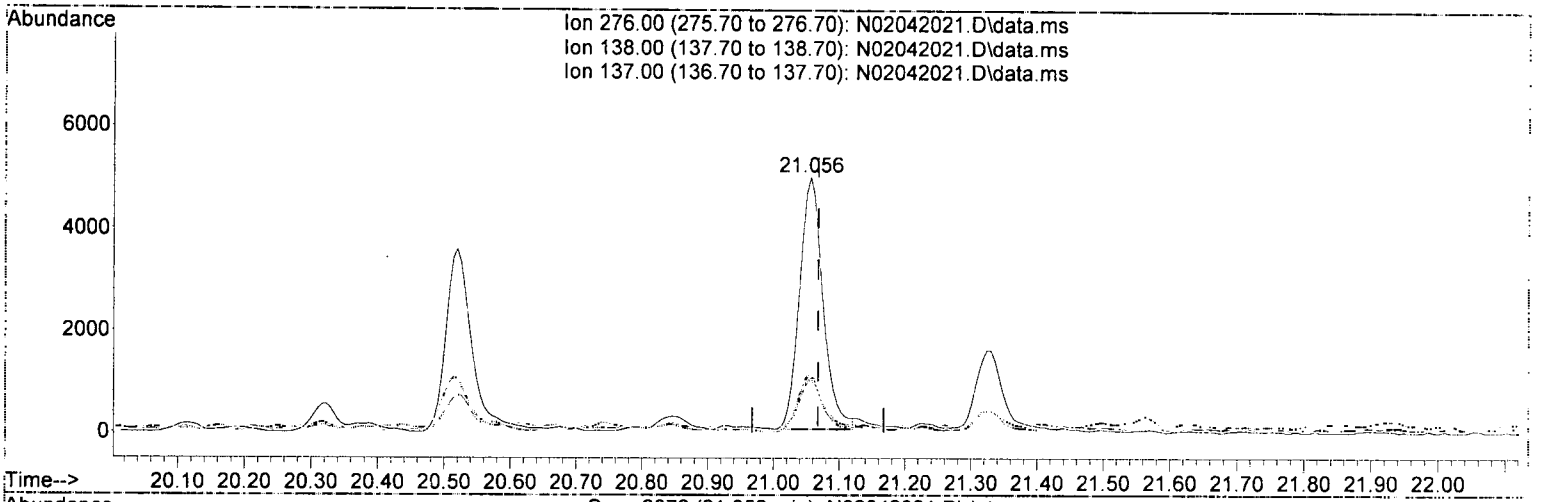
response 9706

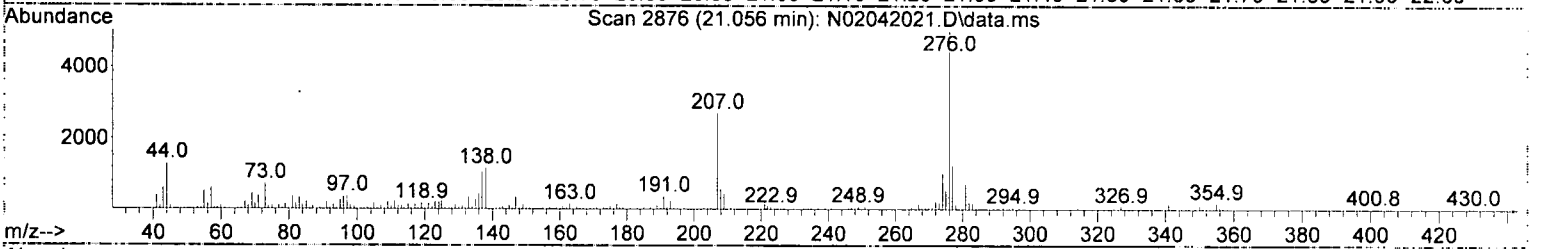
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.78
138.00	31.60	20.78
0.00	0.00	0.00

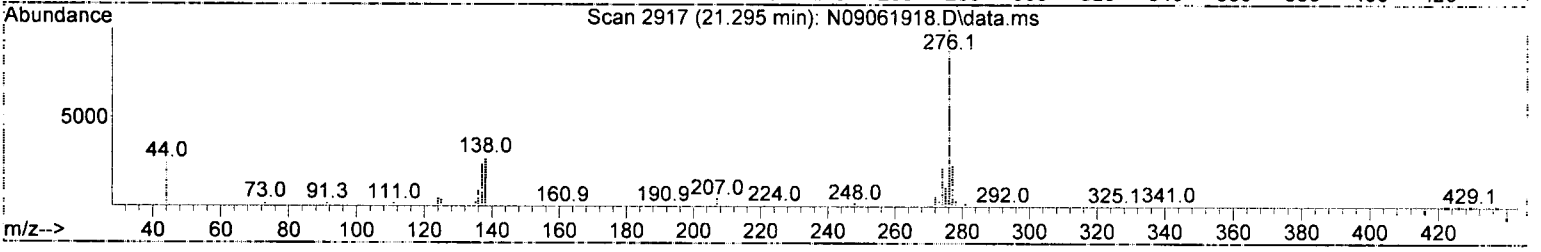
Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14







TIC: N02042021.D\data.ms

(40) Benzo(g,h,i)perylene (T)

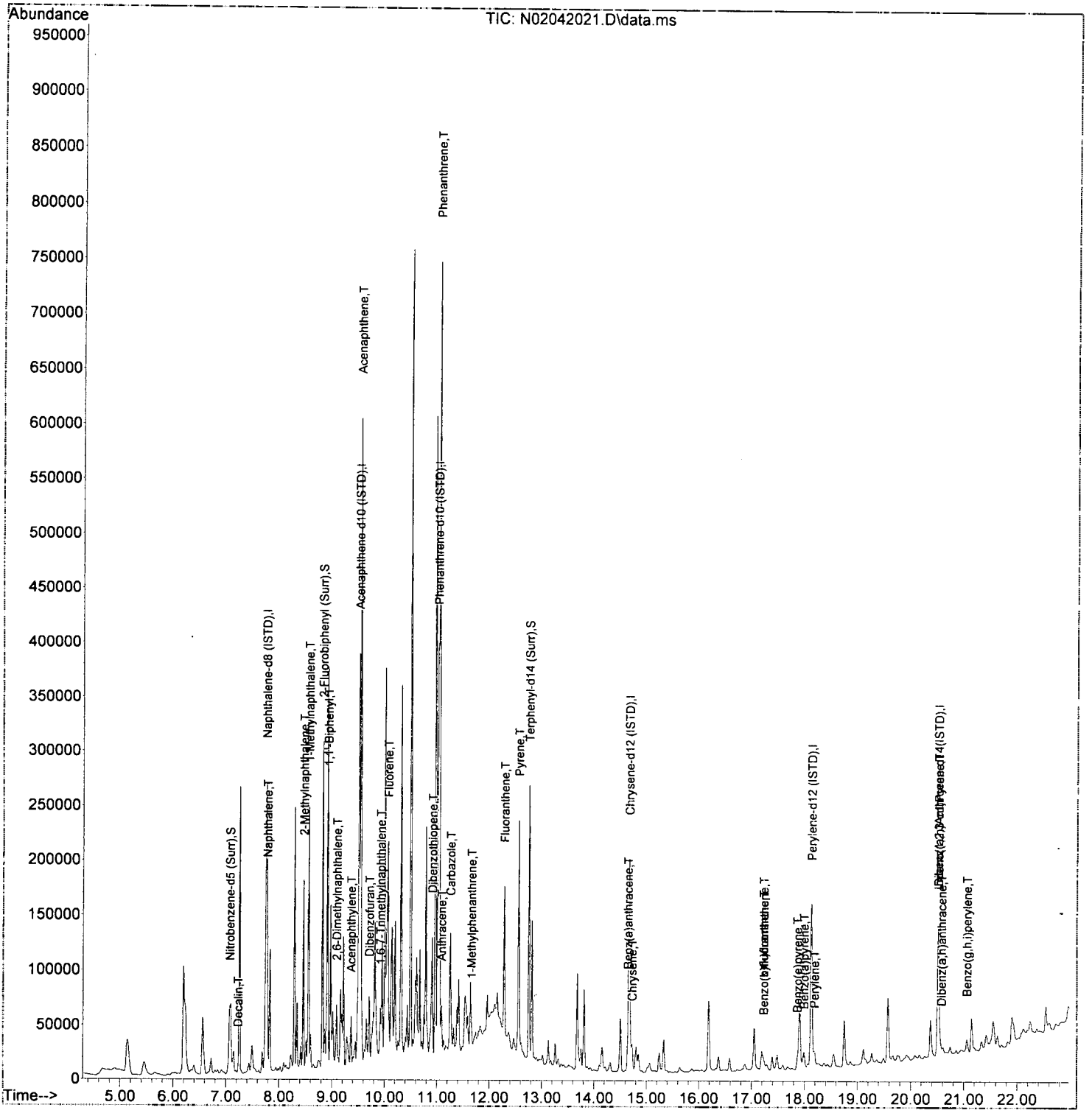
21.056min (-0.012) 9.52 ng/ml

response 12387

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	23.12
137.00	18.60	21.29
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B04047\
Data File : N02042021.D
Acq On : 04 Feb 2020 19:28
Operator : JK/ AMS/ DTH
Sample : A0A1011-06
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 05 08:47:36 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data

Sequence 9I06028 (Cal ID A9I1001) SV-GCMS14

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	9I06028	Instrument:	SV-GCMS14
Date:	09/06/19 15:37	Calibration:	A9I1001

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9I06028-TUN1	Sediment	QC	QC			A19I102	A19H414
2	9I06028-ICB1	Sediment	QC	QC			A19I102	
3	9I06028-CAL1	Sediment	QC	QC			A19I102	A19I015
4	9I06028-CAL2	Sediment	QC	QC			A19I102	A19I016
5	9I06028-CAL3	Sediment	QC	QC			A19I102	A19I017
6	9I06028-CAL4	Sediment	QC	QC			A19I102	A19I018
7	9I06028-CAL5	Sediment	QC	QC			A19I102	A19I019
8	9I06028-CAL6	Sediment	QC	QC			A19I102	A19I020
9	9I06028-CAL7	Sediment	QC	QC			A19I102	A19I021
10	9I06028-CAL8	Sediment	QC	QC			A19I102	A19I022
11	9I06028-CAL9	Sediment	QC	QC			A19I102	A19I023
12	9I06028-CALA	Sediment	QC	QC			A19I102	A19I024
13	9I06028-IBL1	Sediment	QC	QC			A19I102	
14	9I06028-ICV1	Sediment	QC	QC			A19I102	A19I025
15	9I06028-IBL2	Sediment	QC	QC			A19I102	

Data Entered By: 9/10/19

Data Reviewed By: 9/11/19

Comments:

Calibration Status Report SV-GCMS14

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Sep 09 14:58:53 2019
Response Via : Initial Calibration

A9I1001
9/9/19

#	ID	Conc	ISTD Conc	Path\File
1	1.0	1	100	N:\data\2019-09\9I06028\N09061913.D
2	2.5	3	100	N:\data\2019-09\9I06028\N09061914.D
3	5.0	5	100	N:\data\2019-09\9I06028\N09061915.D
4	10.0	10	100	N:\data\2019-09\9I06028\N09061916.D
5	25.0	25	100	N:\data\2019-09\9I06028\N09061917.D
6	50.0	50	100	N:\data\2019-09\9I06028\N09061918.D
7	100	100	100	N:\data\2019-09\9I06028\N09061919.D
8	200	200	100	N:\data\2019-09\9I06028\N09061920.D
9	300	300	100	N:\data\2019-09\9I06028\N09061921.D
10	400	400	100	N:\data\2019-09\9I06028\N09061922.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1.0	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 04:51 pm
2	2.5	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 05:23 pm
3	5.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 05:55 pm
4	10.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 06:27 pm
5	25.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:00 pm
6	50.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:32 pm
7	100	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:04 pm
8	200	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:37 pm
9	300	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:09 pm
10	400	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:41 pm

SV14_090619_PAH.M Mon Sep 09 15:05:37 2019

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Sep 09 14:58:53 2019
Response Via : Initial Calibration

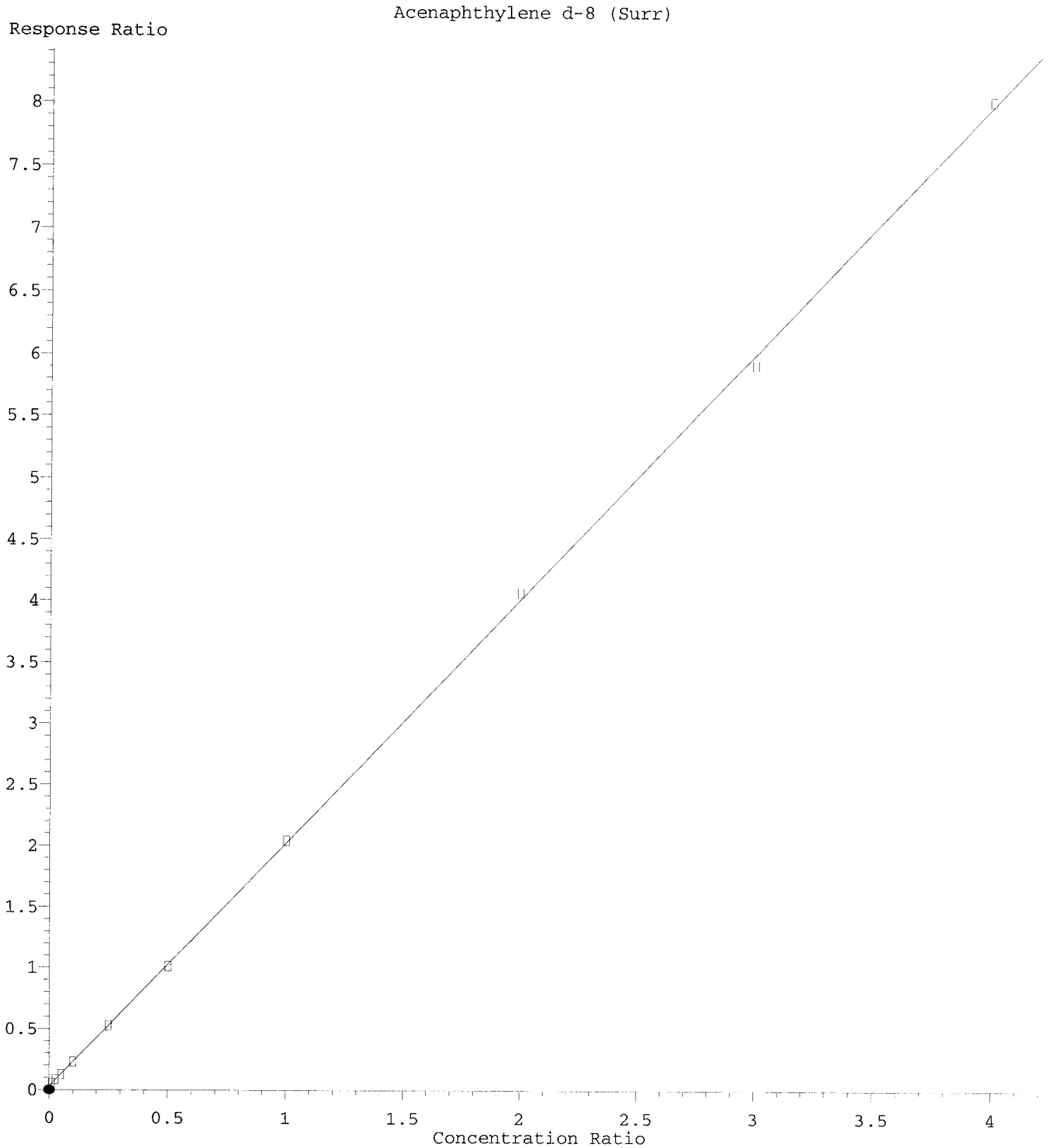
9/9/19

Total Cpnds : 40

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8 (ISTD)	136	7.883	1.000	A	2	A	B
2	S	Nitrobenzene-d5 (Surr)	82	7.184	0.911	A	1	A	R
3	T	Decalin	138	7.364	0.934	A	2	A	B
4	T	Naphthalene	128	7.907	1.003	A	2	A	R
5	T	2-Methylnaphthalene	142	8.589	1.089	A	2	A	R
6	T	1-Methylnaphthalene	142	8.688	1.102	A	2	A	R
7	T	1,1'-Biphenyl	154	9.055	1.149	A	2	A	B
8	T	2,6-Dimethylnaphthalene	156	9.212	1.169	A	2	A	R
9	I	Acenaphthene-d10 (ISTD)	162	9.638	1.000	A	2	A	R
10	S	2-Fluorobiphenyl (Surr)	172	8.950	0.929	A	2	A	R
11	S	Acenaphthylene d-8 (Surr)	160	9.480	0.984	Q	2	A	R
12	T	Acenaphthylene	152	9.498	0.985	A	2	A	R
13	T	Acenaphthene	153	9.673	1.004	A	2	A	R
14	T	Dibenzofuran	168	9.848	1.022	A	2	A	R
15	T	1,6,7-Trimethylnaphthalene	170	10.057	1.044	A	2	A	R
16	T	Fluorene	166	10.191	1.057	A	2	A	R
17	I	Phenanthrene-d10 (ISTD)	188	11.147	1.000	A	2	A	R
18	T	Dibenzothiopene	184	11.042	0.991	A	3	A	R
19	T	Phenanthrene	178	11.171	1.002	A	2	A	R
20	T	Anthracene	178	11.223	1.007	A	2	A	R
21	T	Carbazole	167	11.390	1.022	A	2	A	R
22	T	1-Methylphenanthrene	192	11.794	1.058	A	2	A	R
23	T	Fluoranthene	202	12.435	1.116	A	2	A	R
24	I	Chrysene-d12 (ISTD)	240	14.906	1.000	A	2	A	R
25	T	Pyrene	202	12.721	0.853	A	2	A	R
26	S	Terphenyl-d14 (Surr)	244	12.930	0.867	A	2	A	R
27	T	Benz(a)anthracene	228	14.883	0.998	A	2	A	R
28	T	Chrysene	228	14.965	1.004	A	2	A	R
29	I	Perylene-d12 (ISTD)	264	18.374	1.000	A	2	A	R
30	T	Benzo(b)fluoranthene	252	17.465	0.951	A	2	A	R
31	T	Benzo(k)fluoranthene	252	17.529	0.954	A	2	A	R
32	T	Benzo(b+k)fluoranthene	252	17.529	0.954	A	2	A	R
33	S	Benzo(a)pyrene d-12 (Surr)	264	18.176	0.989	A	2	A	B
34	T	Benzo(e)pyrene	252	18.118	0.986	A	2	A	R
35	T	Benzo(a)pyrene	252	18.234	0.992	A	2	A	R
36	T	Perylene	252	18.433	1.003	A	2	A	R
37	I	Dibenz(a,h)Anthrcene-d14(ISTD)	292	20.764	1.000	A	2	A	R
38	T	Indeno(1,2,3-cd)Pyrene	276	20.758	1.000	A	2	A	R
39	T	Dibenz(a,h)anthracene	278	20.828	1.003	A	2	A	R
40	T	Benzo(g,h,i)perylene	276	21.294	1.026	A	2	A	R

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

SV14_090619_PAH.M Mon Sep 09 15:05:30 2019

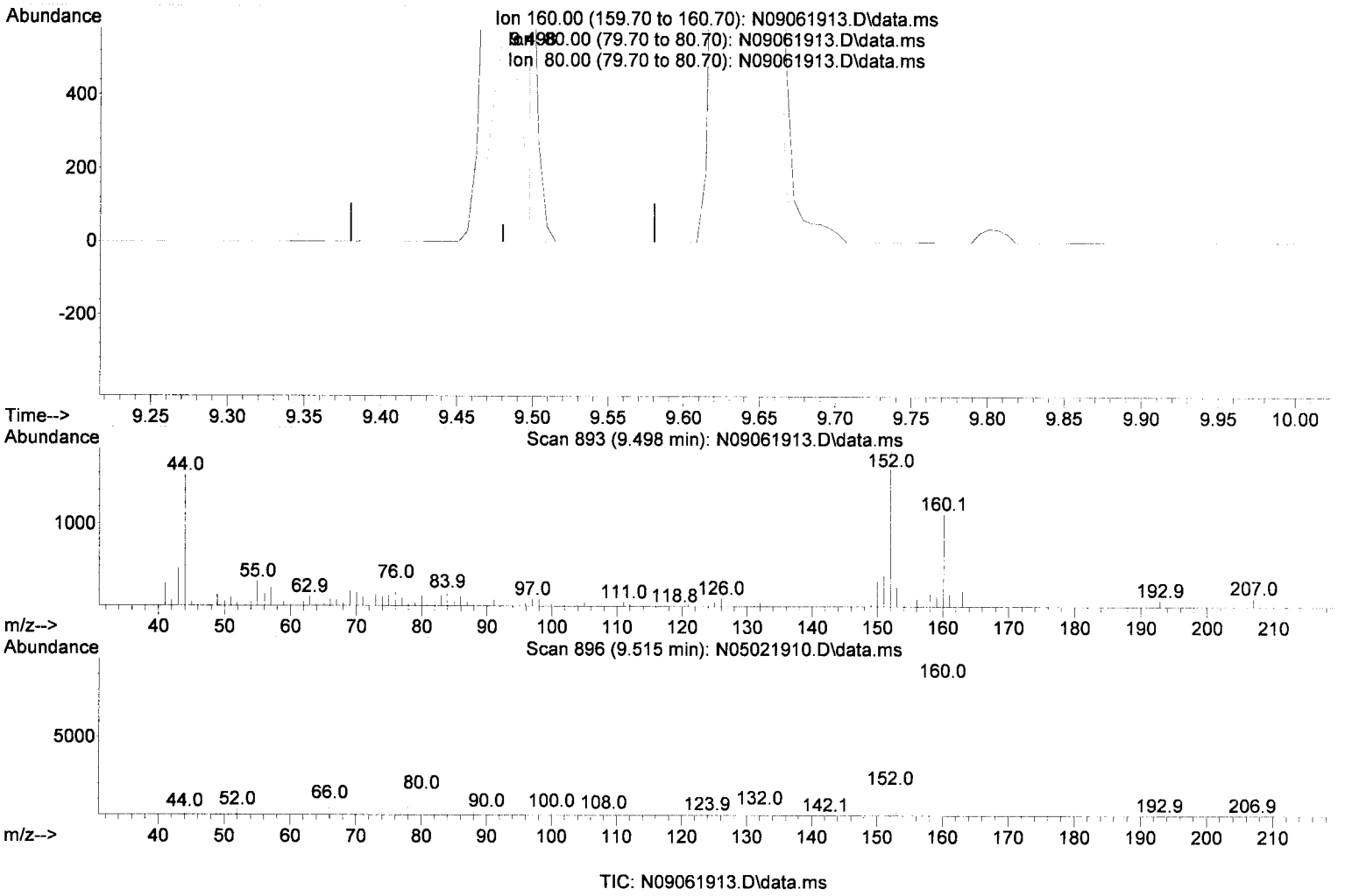


R = -2.27e-003 A*A + 2.00e+000 A + 2.92e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: N:\methods\SV14_090619_PAH.M_
Calibration Table Last Updated: Mon Sep 09 15:00:15 2019

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\REQUANT\
Data File : N09061913.D
Acq On : 06 Sep 2019 04:51 pm
Operator :
Sample : 9I06028-CAL1
Misc : 1x, A19I015@1
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 15:06:04 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N09061913.D\data.ms

(11) Acenaphthylene d-8 (Surr) (S)

9.498min (+ 0.017) -1.00 ng/ml m

response 111

Ion	Exp%	Act%
160.00	100.00	100.00
80.00	14.40	12.44
80.00	14.40	12.44
0.00	0.00	0.00

Response Factor Report SV-GCMS14

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Sep 09 14:58:53 2019
Response Via : Initial Calibration

9/9/19

Calibration Files
1.0 =N09061913.D 2.5 =N09061914.D 5.0 =N09061915.D 10.0=N09061916.D 25.0=N09061917.D 50.0=N09061918.D 100 =N09061919.D
200 =N09061920.D 300 =N09061921.D 400 =N09061922.D

		Compound	1.0	2.5	5.0	10.0	25.0	50.0	100	200	300	400	Avg	%RSD	
															6.52
1)	I	Naphthalene-d8 (ISTD)	----------ISTD----------												
2)	S	Nitrobenzene-d...	0.391	0.340	0.316	0.315	0.306	0.324	0.323	0.334	0.338	0.337	0.332	7.09	Not used
3)	T	Decalin		0.076	0.070	0.069	0.070	0.075	0.077	0.077	0.075	0.081	0.074	5.47	Not used
4)	T	Naphthalene	1.158	1.135	1.098	1.123	1.090	1.083	1.082	1.092	1.078	1.090	1.103	2.42	✓
5)	T	2-Methylnaphth...	0.893	0.907	0.881	0.886	0.895	0.941	0.965	1.001	1.001	0.975	0.935	5.16	✓
6)	T	1-Methylnaphth...	0.821	0.875	0.837	0.916	0.923	0.964	0.986	1.025	1.016	0.981	0.934	7.70	✓
7)	T	1,1'-Biphenyl	1.222	1.201	1.123	1.186	1.195	1.259	1.326	1.389	1.390	1.279	1.257	7.10	Not used
8)	T	2,6-Dimethylna...	0.823	0.850	0.815	0.851	0.892	0.943	0.994	1.034	1.033	0.946	0.918	9.12	Not used
															2.97
9)	I	Acenaphthene-d10 (...	----------ISTD----------												
10)	S	2-Fluorobiphen...	1.424	1.562	1.481	1.499	1.500	1.482	1.499	1.496	1.477	1.498	1.492	2.26	✓
11)	S	Acenaphthylene...	4.877	3.301	2.497	2.282	2.108	2.021	2.043	2.031	1.970	2.004	2.513	36.74	Not used (Surrogate)
12)	T	Acenaphthylene	2.050	2.174	2.139	2.171	2.195	2.172	2.248	2.243	2.161	2.158	2.171	2.55	✓
13)	T	Acenaphthene	1.439	1.487	1.404	1.417	1.419	1.394	1.443	1.431	1.388	1.396	1.422	2.10	✓
14)	T	Dibenzofuran	1.760	1.773	1.736	1.780	1.790	1.777	1.831	1.827	1.771	1.765	1.781	1.63	✓
15)	T	1,6,7-Trimethy...	1.249	1.207	1.173	1.178	1.169	1.168	1.213	1.212	1.178	1.178	1.193	2.23	Not used
16)	T	Fluorene	1.369	1.405	1.409	1.422	1.461	1.447	1.526	1.545	1.493	1.476	1.455	3.85	✓
															5.33
17)	I	Phenanthrene-d10 (...	----------ISTD----------												
18)	T	Dibenzothiopene	1.030	1.080	1.056	1.038	1.030	1.033	1.050	1.056	1.042	1.043	1.046	1.46	Not used
19)	T	Phenanthrene	1.287	1.194	1.137	1.165	1.154	1.152	1.158	1.178	1.134	1.143	1.170	3.85	✓
20)	T	Anthracene	1.097	1.089	1.049	1.062	1.069	1.076	1.110	1.115	1.102	1.115	1.088	2.16	✓
21)	T	Carbazole	0.872	0.830	0.810	0.818	0.866	0.871	0.905	0.945	0.940	0.950	0.881	5.99	✓
22)	T	1-Methylphenan...	0.803	0.804	0.781	0.794	0.802	0.805	0.824	0.842	0.826	0.847	0.813	2.60	Not used
23)	T	Fluoranthene	1.194	1.127	1.104	1.124	1.162	1.171	1.202	1.227	1.218	1.261	1.179	4.30	✓
															15.52
24)	I	Chrysene-d12 (ISTD)	----------ISTD----------												
25)	T	Pyrene	1.634	1.742	1.585	1.636	1.580	1.571	1.560	1.478	1.416	1.421	1.562	6.48	✓
26)	S	Terphenyl-d14 ...	1.150	1.092	1.037	1.058	1.060	1.046	1.049	1.021	0.993	1.012	1.052	4.22	✓
27)	T	Benz(a)anthracene	1.394	1.221	1.088	1.093	1.114	1.098	1.142	1.149	1.139	1.173	1.161	7.87	✓
28)	T	Chrysene	1.134	1.107	1.087	1.087	1.098	1.082	1.095	1.103	1.080	1.114	1.099	1.52	✓
															18.95
29)	I	Perylene-d12 (ISTD)	----------ISTD----------												
30)	T	Benzo(b)fluora...	1.117	1.085	1.065	1.092	1.128	1.164	1.194	1.231	1.217	1.246	1.154	5.68	✓
31)	T	Benzo(k)fluora...	1.067	1.082	1.086	1.036	1.128	1.118	1.196	1.221	1.198	1.228	1.136	6.13	✓
32)	T	Benzo(b+k)fluo...	2.224	2.236	2.233	2.230	2.344	2.357	2.457	2.518	2.473	2.532	2.361	5.36	✓
33)	S	Benzo(a)pyrene...	0.639	0.751	0.745	0.759	0.782	0.808	0.845	0.885	0.880	0.902	0.800	10.15	Not used (Surrogate)
34)	T	Benzo(e)pyrene	1.244	1.173	1.075	1.091	1.139	1.151	1.184	1.213	1.188	1.210	1.167	4.61	Not used
35)	T	Benzo(a)pyrene	0.983	0.860	0.859	0.902	0.977	1.004	1.043	1.085	1.068	1.095	0.988	9.00	✓
36)	T	Perylene	1.038	1.226	1.199	1.189	1.232	1.218	1.248	1.282	1.254	1.278	1.216	5.74	Not used

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics

~~2.69~~ 2.60 9/2 9/10/19

37)	I	Dibenz(a,h)Anthrce...	----------ISTD----------										
38)	T	Indeno(1,2,3-c...	1.208	1.280	1.185	1.191	1.192	1.223	1.260	1.262	1.249	1.283	1.233	3.08
39)	T	Dibenz(a,h)ant...	1.173	1.144	1.121	1.116	1.120	1.144	1.178	1.194	1.182	1.217	1.159	3.01
40)	T	Benzo(g,h,i)pe...	1.245	1.185	1.241	1.251	1.289	1.328	1.388	1.395	1.368	1.394	1.308	5.85

(#) = Out of Range

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analysis Included
8270D LL PAH Only (Scan)

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
9I06028-TUN1	MS Tune	Sediment	A19H414	A19I102	9/6/2019 3:51:00PM
9I06028-ICB1	Initial Cal Blank	Sediment		A19I102	9/6/2019 4:18:00PM
9I06028-CAL1	Cal Standard	Sediment	A19I015	"	9/6/2019 4:51:00PM
9I06028-CAL2	Cal Standard	Sediment	A19I016	"	9/6/2019 5:23:00PM
9I06028-CAL3	Cal Standard	Sediment	A19I017	"	9/6/2019 5:55:00PM
9I06028-CAL4	Cal Standard	Sediment	A19I018	"	9/6/2019 6:27:00PM
9I06028-CAL5	Cal Standard	Sediment	A19I019	"	9/6/2019 7:00:00PM
9I06028-CAL6	Cal Standard	Sediment	A19I020	"	9/6/2019 7:32:00PM
9I06028-CAL7	Cal Standard	Sediment	A19I021	"	9/6/2019 8:04:00PM
9I06028-CAL8	Cal Standard	Sediment	A19I022	"	9/6/2019 8:37:00PM
9I06028-CAL9	Cal Standard	Sediment	A19I023	"	9/6/2019 9:09:00PM
9I06028-CALA	Cal Standard	Sediment	A19I024	"	9/6/2019 9:41:00PM
9I06028-ICV1	Initial Cal Check	Sediment	A19I025	"	9/6/2019 10:45:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A9I1001** Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan) Sequence: **9I06028** Matrix: **Sediment**

9I06028-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

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

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

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 otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A9I1001** Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan) Sequence: **9I06028** Matrix: **Sediment**

9I06028-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual

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

Evaluate Continuing Calibration Report

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/10/19

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	123	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	46.212	7.6	116	0.00
3	T	Decalin	50.000	48.753	2.5	118	0.00
4	T	Naphthalene	50.000	49.942	0.1	125	0.00
5	T	2-Methylnaphthalene	50.000	46.827	6.3	114	0.00
6	T	1-Methylnaphthalene	50.000	47.766	4.5	113	0.00
7	T	1,1'-Biphenyl	50.000	46.341	7.3	113	0.00
8	T	2,6-Dimethylnaphthalene	50.000	45.797	8.4	109	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	106	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	49.669	0.7	106	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	49.308	1.4	106	0.00
12	T	Acenaphthylene	50.000	51.950	-3.9	110	0.00
13	T	Acenaphthene	50.000	50.335	-0.7	109	0.00
14	T	Dibenzofuran	50.000	50.914	-1.8	108	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	50.151	-0.3	109	0.00
16	T	Fluorene	50.000	50.867	-1.7	109	0.00
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	107	0.00
18	T	Dibenzothiopene	50.000	49.794	0.4	108	0.00
19	T	Phenanthrene	50.000	50.398	-0.8	110	0.00
20	T	Anthracene	50.000	51.792	-3.6	112	0.00
21	T	Carbazole	50.000	50.683	-1.4	110	-0.02
22	T	1-Methylphenanthrene	50.000	51.441	-2.9	111	0.00
23	T	Fluoranthene	50.000	50.556	-1.1	109	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	111	0.00
25	T	Pyrene	50.000	49.139	1.7	109	0.00
26	S	Terphenyl-d14 (Surr)	50.000	48.699	2.6	109	0.00
27	T	Benz(a)anthracene	50.000	48.477	3.0	114	0.00
28	T	Chrysene	50.000	52.375	-4.8	118	0.00
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	114	0.00
30	T	Benzo(b)fluoranthene	50.000	50.587	-1.2	115	0.00
31	T	Benzo(k)fluoranthene	50.000	49.972	0.1	116	0.00
32	T	Benzo(b+k)fluoranthene	100.000	100.734	-0.7	115	0.00
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	53.210	-6.4	120	0.00
34	T	Benzo(e)pyrene	50.000	50.277	-0.6	117	0.00
35	T	Benzo(a)pyrene	50.000	51.177	-2.4	115	0.00
36	T	Perylene	50.000	50.891	-1.8	116	0.00
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	117	0.00
38	T	Indeno(1,2,3-cd)Pyrene	50.000	49.977	0.0	118	0.00
39	T	Dibenz(a,h)anthracene	50.000	49.339	1.3	117	0.00
40	T	Benzo(g,h,i)perylene	50.000	53.580	-7.2	123	0.00

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.613	150	163761	2.00	ug/mL	# 0.00
2) Naphthalene-d8	7.825	136	486548	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	255378	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.101	188	470705	2.00	ug/mL	0.00
11) Chrysene-d12	14.779	240	413133	2.00	ug/mL	# 0.00
12) Perylene-d12	16.830	264	372325	2.00	ug/mL	# 0.00
13) Dibenz(a,h)anthracene-...	18.060	292	295670	2.00	ug/mL	0.00
Target Compounds						Qvalue
4) Pentachlorophenol	10.920	266	1134816	47.06	ug/mL	93
6) DFTPP	11.404	442	1326743	34.91	ug/mL	90
7) Benzidine	12.558	184	4304187	25.70	ug/mL	97
8) 4,4-DDE	12.808	TIC	375170	No Calib		
9) 4,4-DDD	13.310	TIC	188617	No Calib		
10) 4,4-DDT	13.869	TIC	15944082	33.03	ug/mL	98

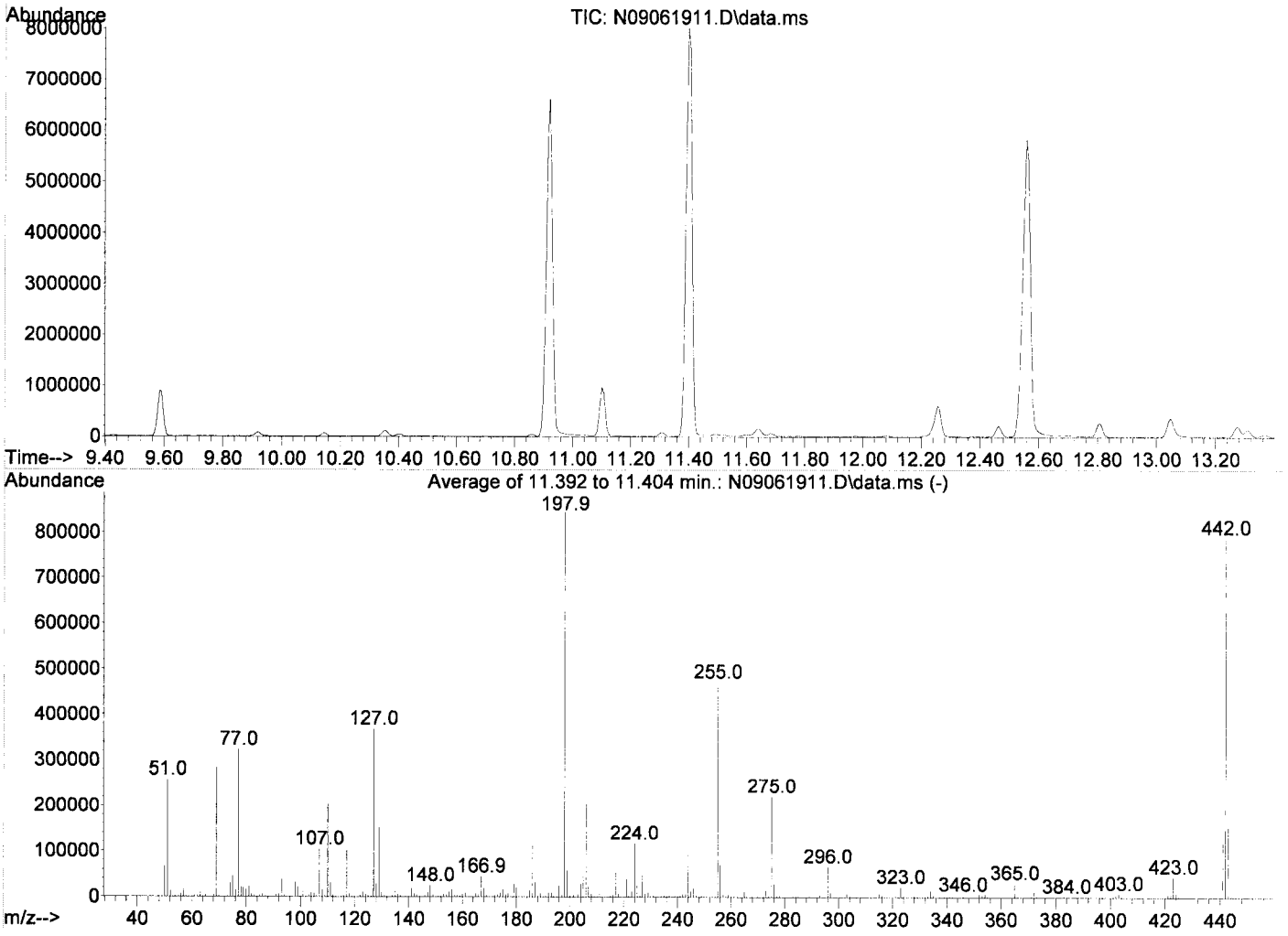
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : N:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Thu Sep 05 08:50:46 2019

9/2 9/9/19



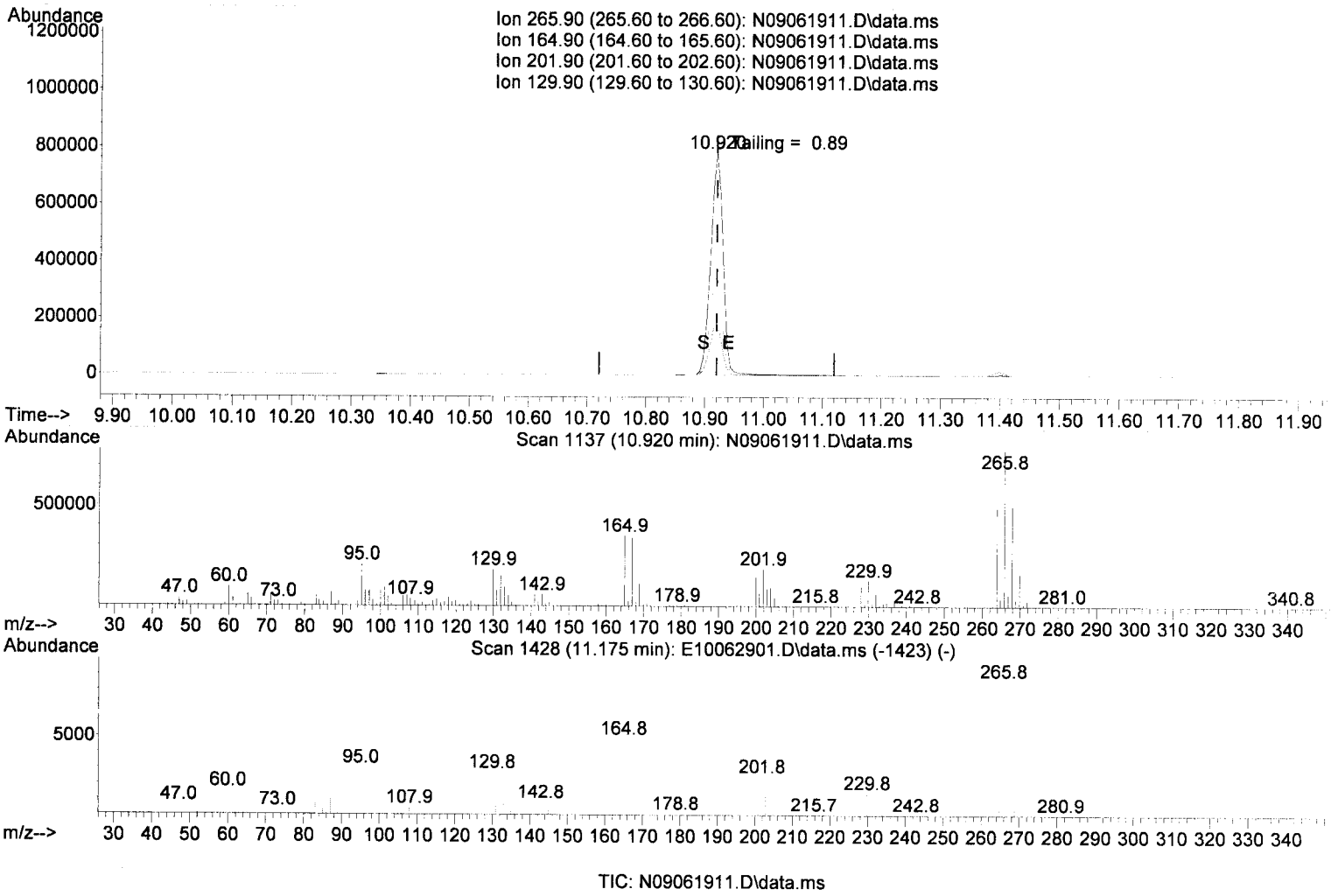
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	4348	PASS
69	69	100	100	100.0	283608	PASS
70	69	0.00	2	0.5	1319	PASS
197	198	0.00	2	0.5	4054	PASS
198	198	100	100	100.0	845182	PASS
199	198	5	9	6.9	57976	PASS
365	198	1	100	3.6	30576	PASS
441	443	0.01	150	78.0	120320	PASS
442	198	0.10	200	93.1	787179	PASS
443	442	15	24	19.6	154213	PASS

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(4) Pentachlorophenol

10.920min (+ 0.000) 47.06 ug/mL

response 1134816

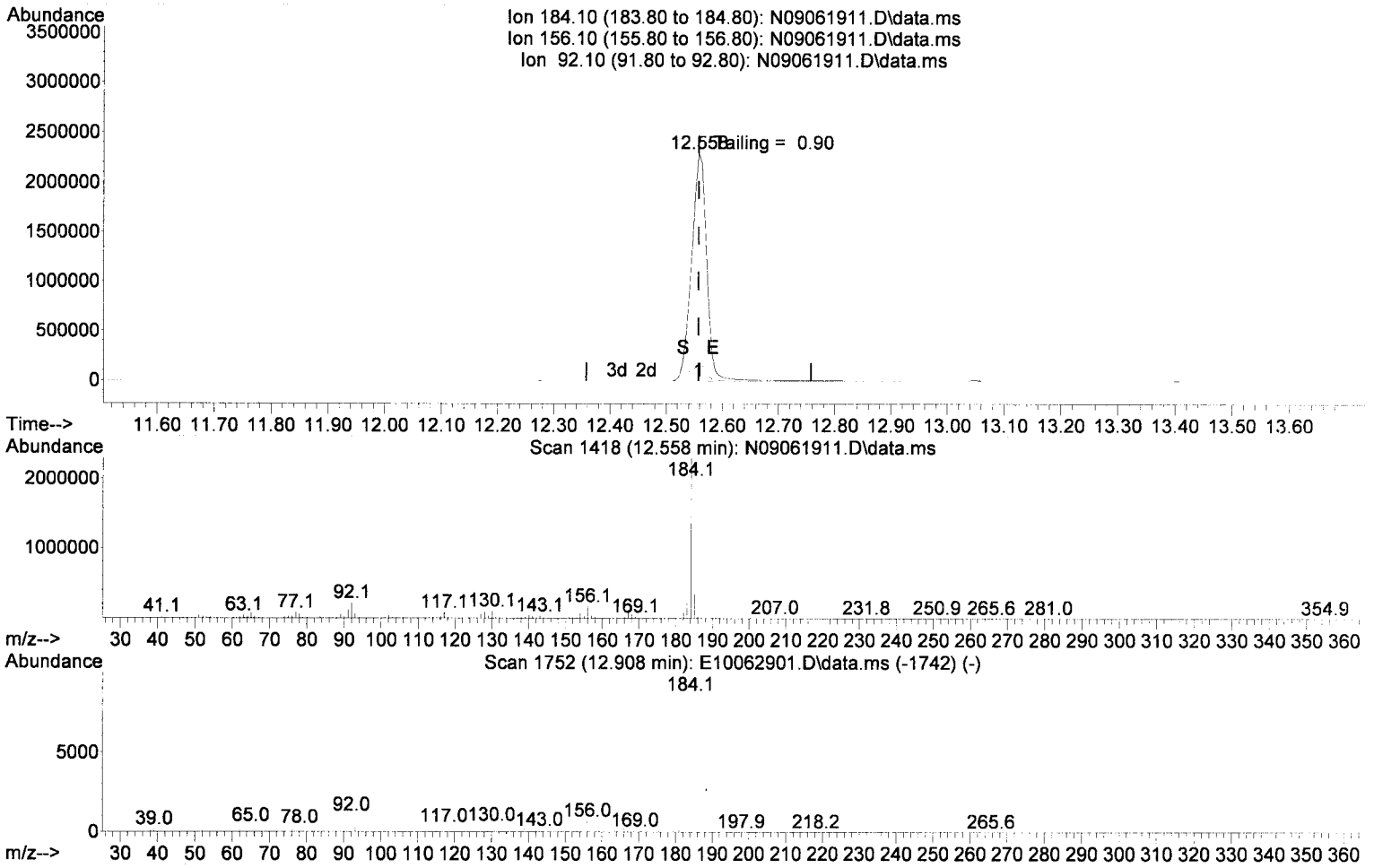
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

9/9/19

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(7) Benzidine

12.558min (+ 0.000) 25.70 ug/mL

response 4304187

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.39
92.10	8.20	9.56
0.00	0.00	0.00

9/9/19

DDT Breakdown Check (Validated 5/1/2013)

From:
9I06028-TUN1
SV-GCMS14

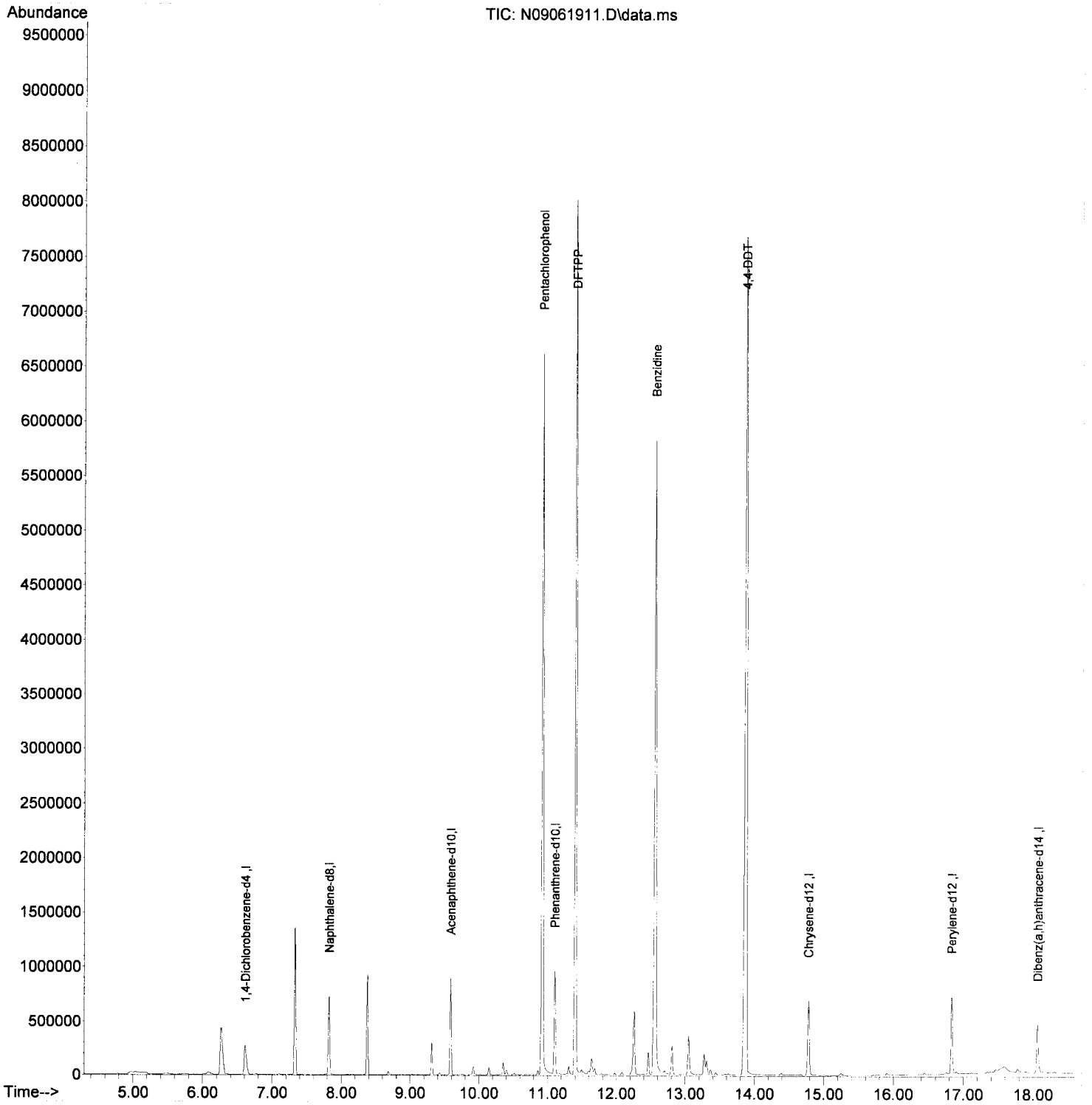
First Column Area Counts		Percent Breakdown	
DDE	375170		
DDD	188617		
DDT	15944082	**3.42**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

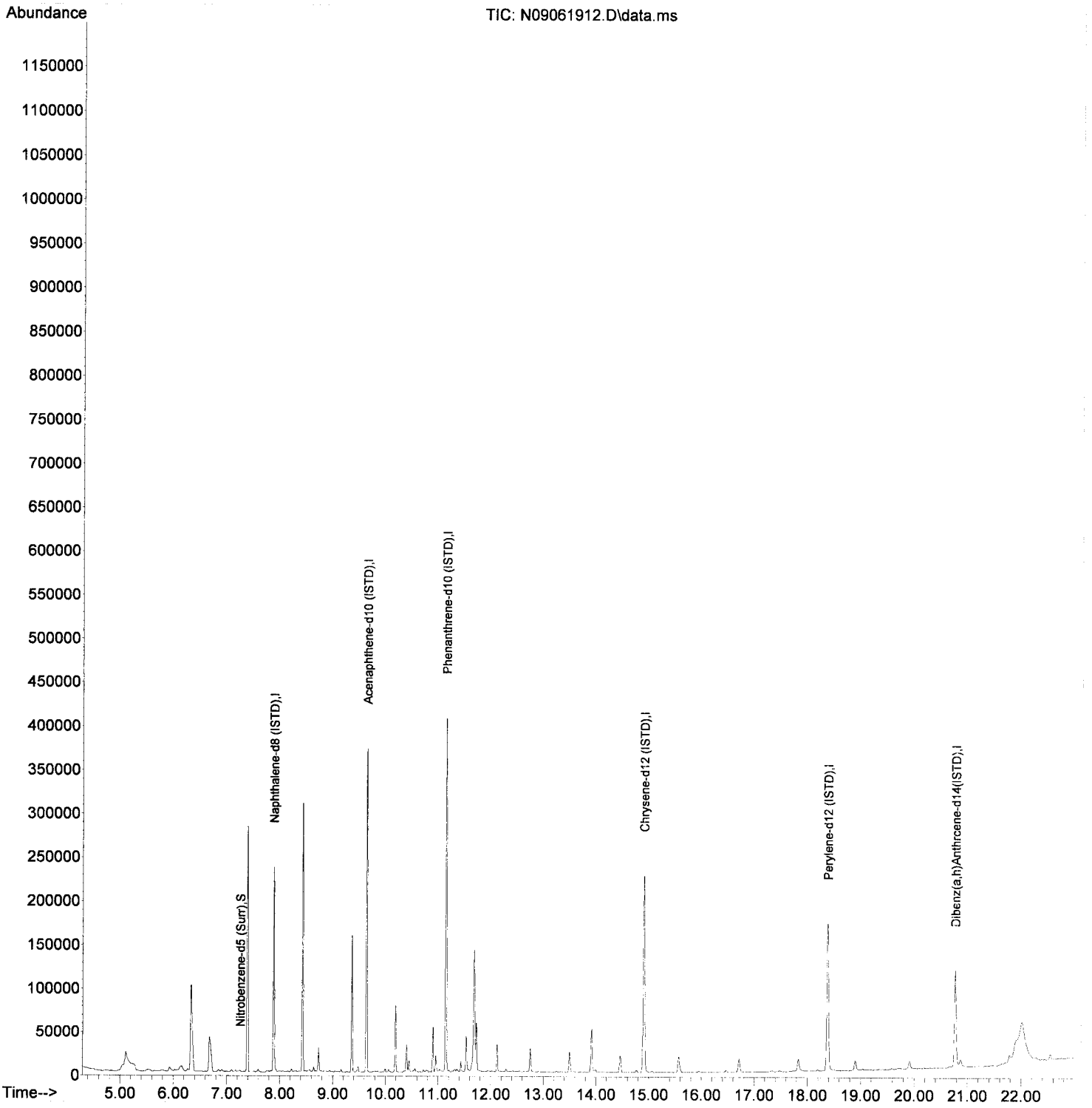
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	95634	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.907	128	157	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	9.498	152	86	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	11.042	184	87	N.D.		
19) Phenanthrene	11.171	178	288	N.D.		
20) Anthracene	11.223	178	75	N.D.		
21) Carbazole	11.380	167	333	No Calib		
22) 1-Methylphenanthrene	11.800	192	131	N.D.		
23) Fluoranthene	12.435	202	251	N.D.		
25) Pyrene	12.727	202	195	N.D.		
27) Benz(a)anthracene	14.901	228	646	N.D.		
28) Chrysene	14.965	228	290	N.D.		
30) Benzo(b)fluoranthene	17.466	252	208	N.D.		
31) Benzo(k)fluoranthene	17.524	252	168	N.D.		
32) Benzo(b+k)fluoranthene	17.524	252	168	N.D.		
34) Benzo(e)pyrene	18.113	252	178	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.439	252	178	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.		
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.		
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Final Reqmnt

Quant Time: Sep 10 10:28:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/10/19

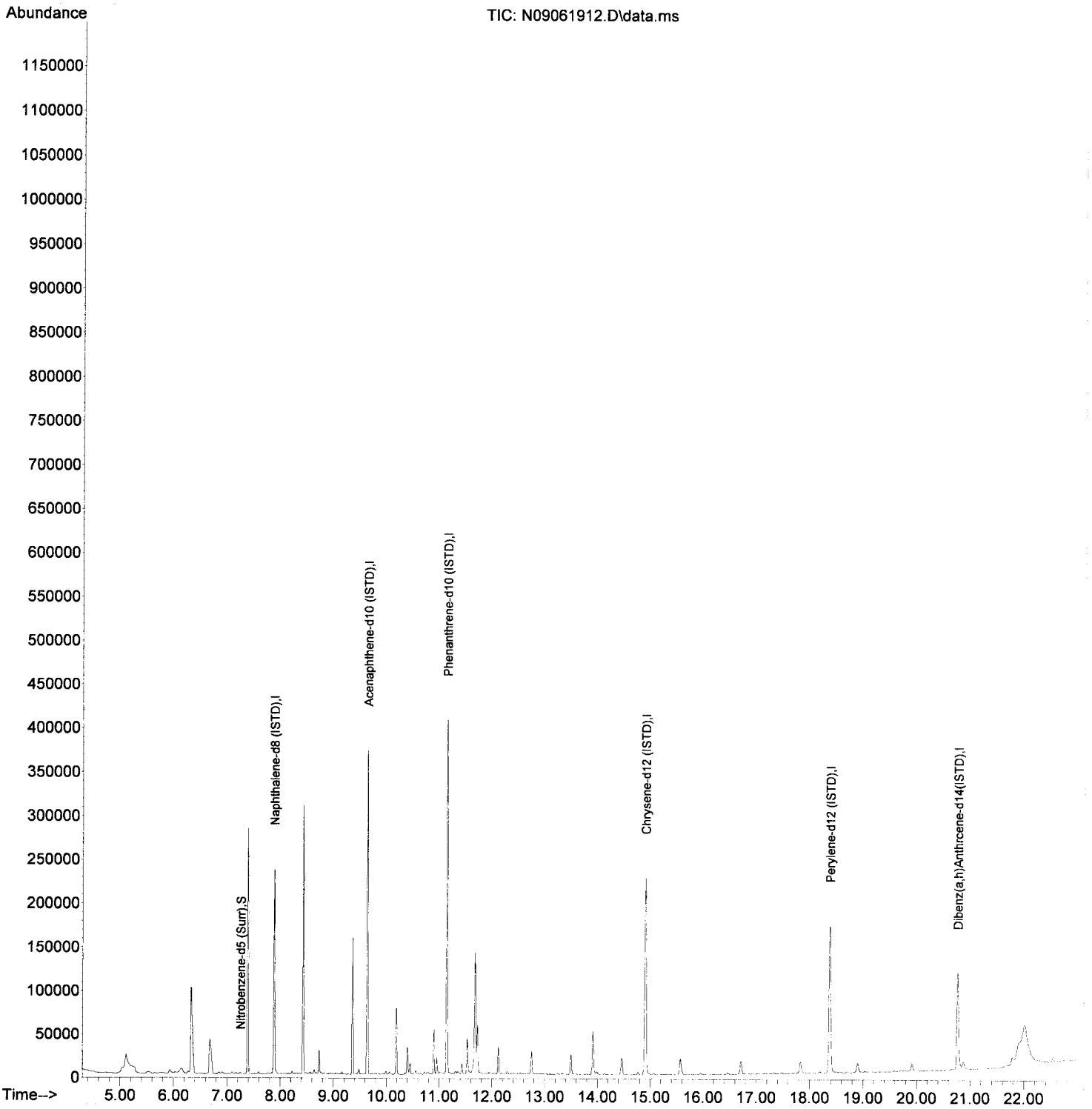
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	95634	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.907	128	157	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	9.498	152	86	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	11.042	184	87	N.D.		
19) Phenanthrene	11.171	178	288	N.D.		
20) Anthracene	11.223	178	75	N.D.		
21) Carbazole	11.380	167	333	N.D.		
22) 1-Methylphenanthrene	11.800	192	131	N.D.		
23) Fluoranthene	12.435	202	251	N.D.		
25) Pyrene	12.727	202	195	N.D.		
27) Benz(a)anthracene	14.901	228	646	N.D.		
28) Chrysene	14.965	228	290	N.D.		
30) Benzo(b)fluoranthene	17.466	252	208	N.D.		
31) Benzo(k)fluoranthene	17.524	252	168	N.D.		
32) Benzo(b+k)fluoranthene	17.524	252	168	N.D.		
34) Benzo(e)pyrene	18.113	252	178	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.439	252	178	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.		
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.		
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061913.D
Acq On : 06 Sep 2019 04:51 pm
Operator :
Sample : 9I06028-CAL1
Misc : 1x, A19I015@1
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

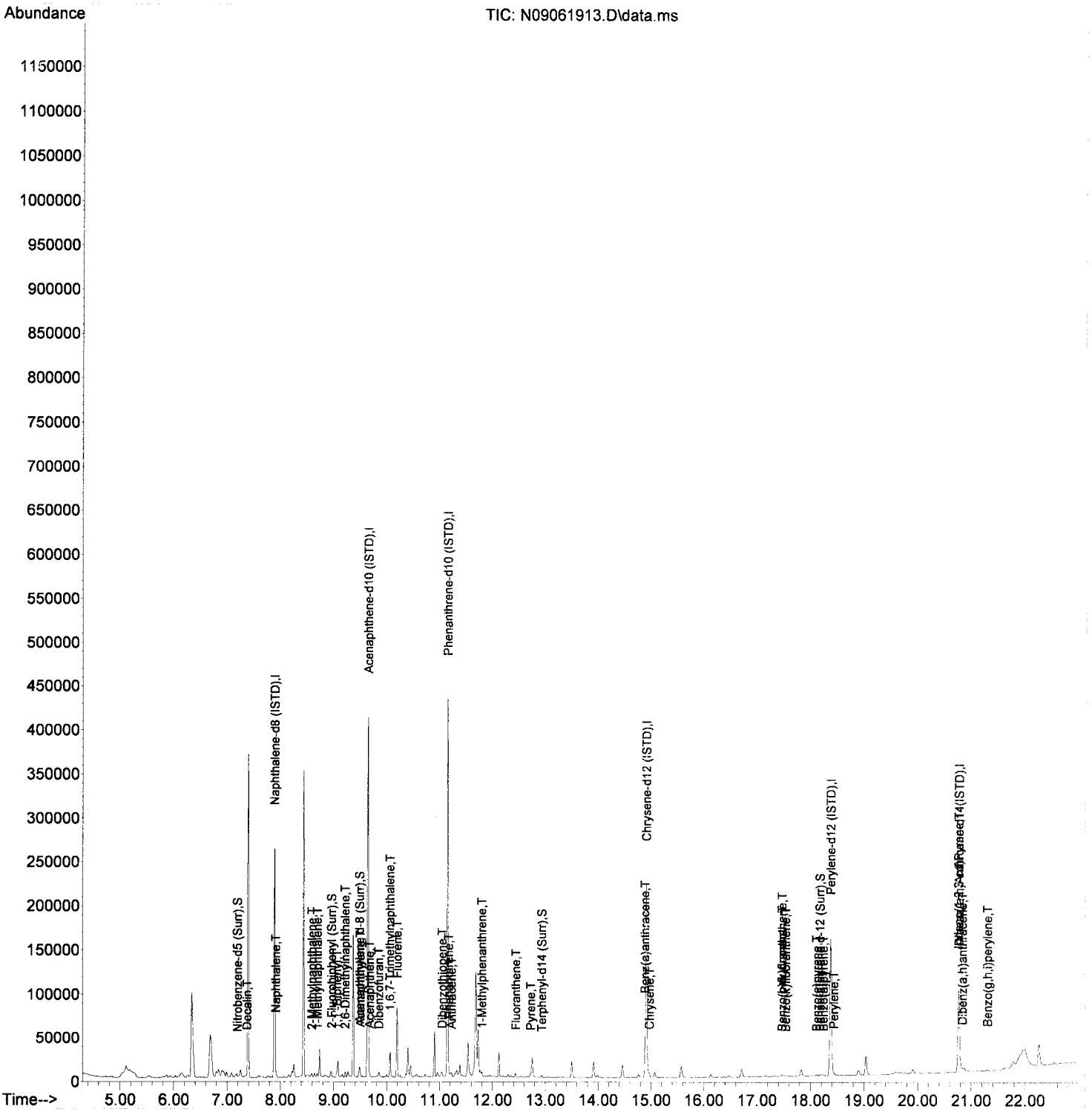
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	173610	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	119749	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	214815	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	149008	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	120943	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.764	292	80323	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.189	82	679	1.18	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	1705	0.95	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	5840	0.98	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	1714	1.09	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.176	264	773	0.80	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	87	0.67	ng/ml#	38
4) Naphthalene	7.906	128	2011	1.05	ng/ml	99
5) 2-Methylnaphthalene	8.588	142	1551	0.96	ng/ml	94
6) 1-Methylnaphthalene	8.687	142	1426	0.88	ng/ml	100
7) 1,1'-Biphenyl	9.055	154	2122	0.97	ng/ml	93
8) 2,6-Dimethylnaphthalene	9.212	156	1429	0.90	ng/ml	93
12) Acenaphthylene	9.498	152	2455	0.94	ng/ml	98
13) Acenaphthene	9.672	153	1723	1.01	ng/ml	97
14) Dibenzofuran	9.847	168	2108	0.99	ng/ml	91
15) 1,6,7-Trimethylnaphtha...	10.057	170	1496	1.05	ng/ml	75
16) Fluorene	10.197	166	1639	0.94	ng/ml	98
18) Dibenzothiopene	11.042	184	2213	0.99	ng/ml	95
19) Phenanthrene	11.170	178	2765	1.10	ng/ml	99
20) Anthracene	11.223	178	2357	1.01	ng/ml	97
21) Carbazole	11.380	167	1874	No Calib		
22) 1-Methylphenanthrene	11.794	192	1725	0.99	ng/ml	92
23) Fluoranthene	12.435	202	2565	1.01	ng/ml	98
25) Pyrene	12.721	202	2435	1.05	ng/ml	96
27) Benz(a)anthracene	14.883	228	2077	1.20	ng/ml	98
28) Chrysene	14.965	228	1690	1.03	ng/ml	96
30) Benzo(b)fluoranthene	17.465	252	1351	0.97	ng/ml	95
31) Benzo(k)fluoranthene	17.529	252	1291	0.94	ng/ml	96
32) Benzo(b+k)fluoranthene	17.465	252	2690	0.94	ng/ml	97
34) Benzo(e)pyrene	18.112	252	1505	1.07	ng/ml	94
35) Benzo(a)pyrene	18.235	252	1189	1.00	ng/ml	99
36) Perylene	18.433	252	1255	0.85	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	970	0.98	ng/ml	74
39) Dibenz(a,h)anthracene	20.828	278	942	1.01	ng/ml	86
40) Benzo(g,h,i)perylene	21.295	276	1000	0.95	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061913.D
Acq On : 06 Sep 2019 04:51 pm
Operator :
Sample : 9I06028-CAL1
Misc : 1x, A19I015@1
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061914.D
Acq On : 06 Sep 2019 05:23 pm
Operator :
Sample : 9I06028-CAL2
Misc : 1x, A19I016@2.5
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

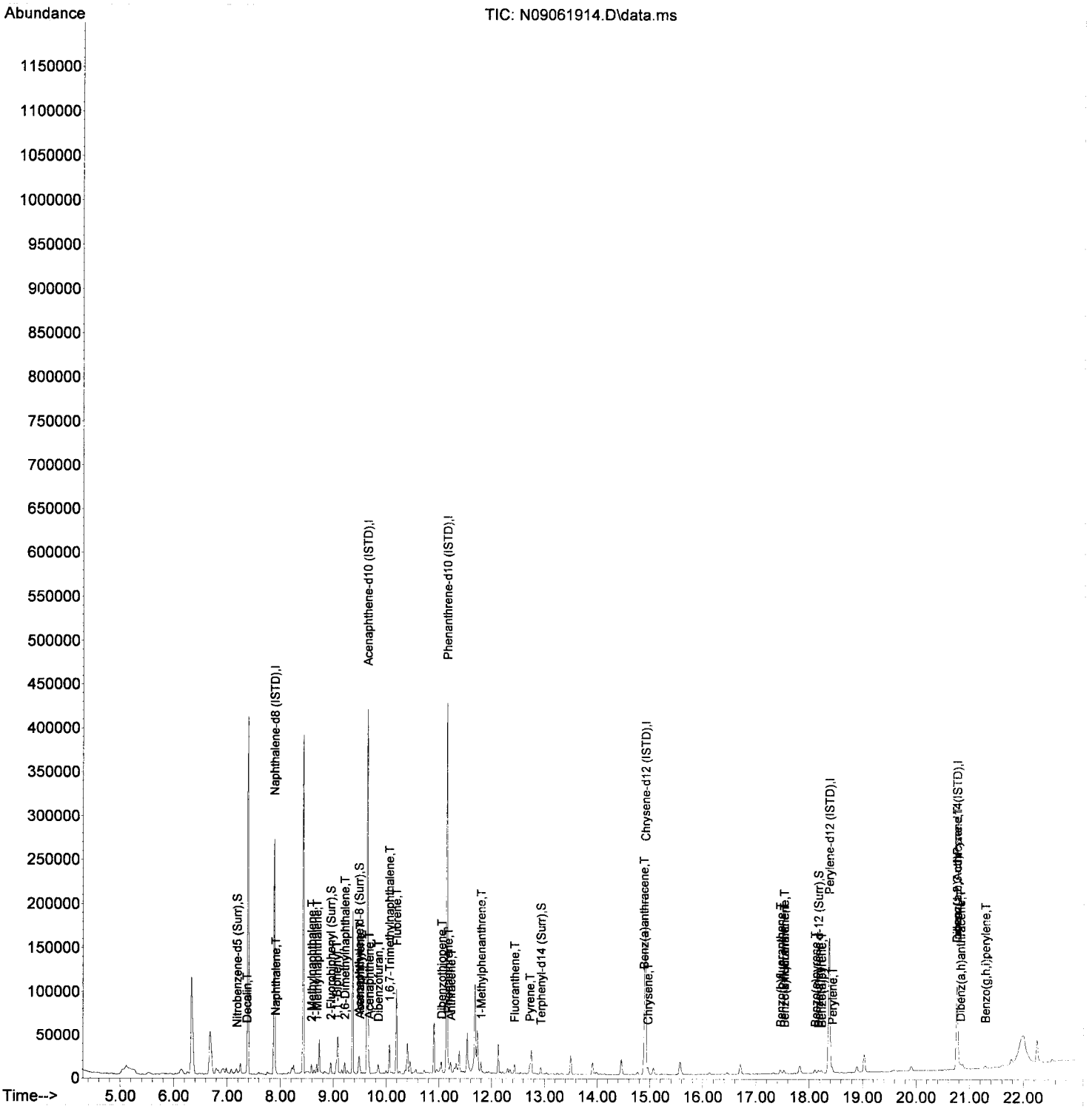
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	170471	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	119278	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	215482	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	151986	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	123595	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	82584	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	1447	2.55	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	4658	2.62	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	9843	2.67	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	4151	2.60	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	2322	2.35	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	323	2.54	ng/ml	87
4) Naphthalene	7.906	128	4837	2.57	ng/ml	98
5) 2-Methylnaphthalene	8.588	142	3865	2.43	ng/ml	96
6) 1-Methylnaphthalene	8.688	142	3730	2.34	ng/ml	97
7) 1,1'-Biphenyl	9.055	154	5118	2.39	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.212	156	3622	2.31	ng/ml	97
12) Acenaphthylene	9.498	152	6483	2.50	ng/ml	98
13) Acenaphthene	9.673	153	4435	2.61	ng/ml	96
14) Dibenzofuran	9.847	168	5286	2.49	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	10.057	170	3598	2.53	ng/ml	87
16) Fluorene	10.191	166	4189	2.41	ng/ml	94
18) Dibenzothiopene	11.042	184	5817	2.58	ng/ml	97
19) Phenanthrene	11.171	178	6430	2.55	ng/ml	99
20) Anthracene	11.223	178	5868	2.50	ng/ml	98
21) Carbazole	11.380	167	4473	No Calib		
22) 1-Methylphenanthrene	11.794	192	4331	2.47	ng/ml	98
23) Fluoranthene	12.429	202	6070	2.39	ng/ml	95
25) Pyrene	12.721	202	6620	2.79	ng/ml	98
27) Benz(a)anthracene	14.883	228	4639	2.63	ng/ml	97
28) Chrysene	14.959	228	4207	2.52	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	3353	2.35	ng/ml	96
31) Benzo(k)fluoranthene	17.530	252	3343	2.38	ng/ml	93
32) Benzo(b+k)fluoranthene	17.530	252	6909	2.37	ng/ml	93
34) Benzo(e)pyrene	18.112	252	3623	2.51	ng/ml	97
35) Benzo(a)pyrene	18.229	252	2658	2.18	ng/ml	100
36) Perylene	18.433	252	3787	2.52	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	2642	2.59	ng/ml	100
39) Dibenz(a,h)anthracene	20.823	278	2361	2.47	ng/ml	87
40) Benzo(g,h,i)perylene	21.289	276	2446	2.26	ng/ml	97

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061914.D
Acq On : 06 Sep 2019 05:23 pm
Operator :
Sample : 9I06028-CAL2
Misc : 1x, A19I016@2.5
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061915.D
Acq On : 06 Sep 2019 05:55 pm
Operator :
Sample : 9I06028-CAL3
Misc : 1x, A19I017@5
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

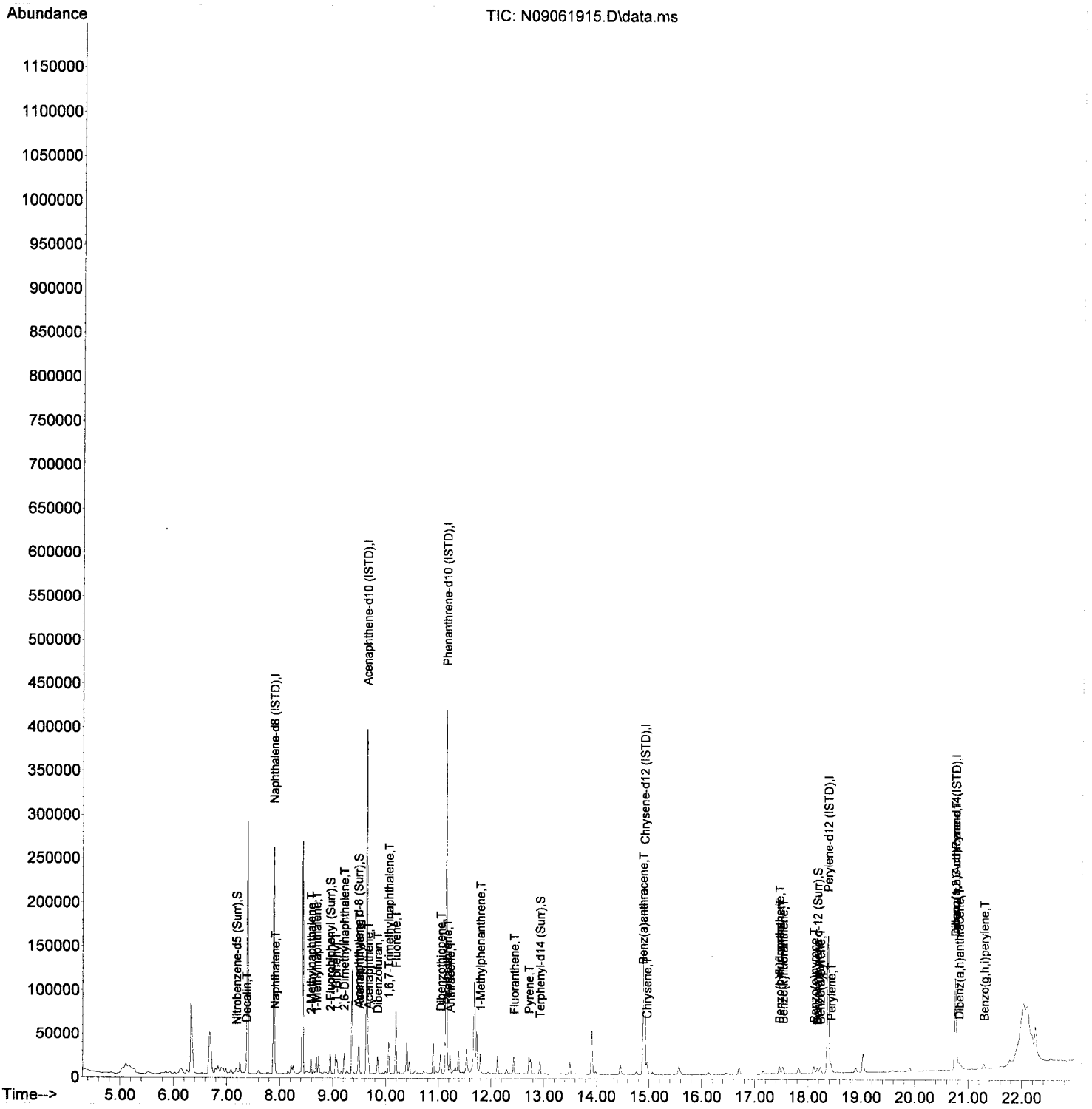
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	165670	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	115422	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	210311	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	150233	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	124460	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	83358	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	2621	4.76	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	8548	4.96	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	14409	4.79	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	7787	4.93	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	4638	4.66	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	582	4.72	ng/ml	91
4) Naphthalene	7.906	128	9092	4.98	ng/ml	99
5) 2-Methylnaphthalene	8.588	142	7294	4.71	ng/ml	97
6) 1-Methylnaphthalene	8.688	142	6937	4.48	ng/ml	96
7) 1,1'-Biphenyl	9.055	154	9300	4.47	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.212	156	6755	4.44	ng/ml	99
12) Acenaphthylene	9.498	152	12342	4.93	ng/ml	99
13) Acenaphthene	9.673	153	8103	4.94	ng/ml	98
14) Dibenzofuran	9.847	168	10021	4.87	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.057	170	6769	4.92	ng/ml	98
16) Fluorene	10.191	166	8130	4.84	ng/ml	99
18) Dibenzothiopene	11.042	184	11105	5.05	ng/ml	97
19) Phenanthrene	11.171	178	11957	4.86	ng/ml	98
20) Anthracene	11.223	178	11026	4.82	ng/ml	99
21) Carbazole	11.380	167	8513	No Calib		
22) 1-Methylphenanthrene	11.794	192	8212	4.80	ng/ml	99
23) Fluoranthene	12.435	202	11610	4.68	ng/ml	98
25) Pyrene	12.721	202	11908	5.07	ng/ml	100
27) Benz(a)anthracene	14.883	228	8173	4.69	ng/ml	96
28) Chrysene	14.959	228	8164	4.95	ng/ml	96
30) Benzo(b)fluoranthene	17.460	252	6625	4.61	ng/ml	95
31) Benzo(k)fluoranthene	17.530	252	6760	4.78	ng/ml	96
32) Benzo(b+k)fluoranthene	17.460	252	13896	4.73	ng/ml	93
34) Benzo(e)pyrene	18.112	252	6692	4.61	ng/ml	98
35) Benzo(a)pyrene	18.229	252	5344	4.35	ng/ml	99
36) Perylene	18.433	252	7462	4.93	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.759	276	4940	4.80	ng/ml	95
39) Dibenz(a,h)anthracene	20.829	278	4673	4.84	ng/ml	98
40) Benzo(g,h,i)perylene	21.295	276	5171	4.74	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061915.D
Acq On : 06 Sep 2019 05:55 pm
Operator :
Sample : 9I06028-CAL3
Misc : 1x, A19I017@5
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061916.D
Acq On : 06 Sep 2019 06:27 pm
Operator :
Sample : 9I06028-CAL4
Misc : 1x, A19I018@10
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

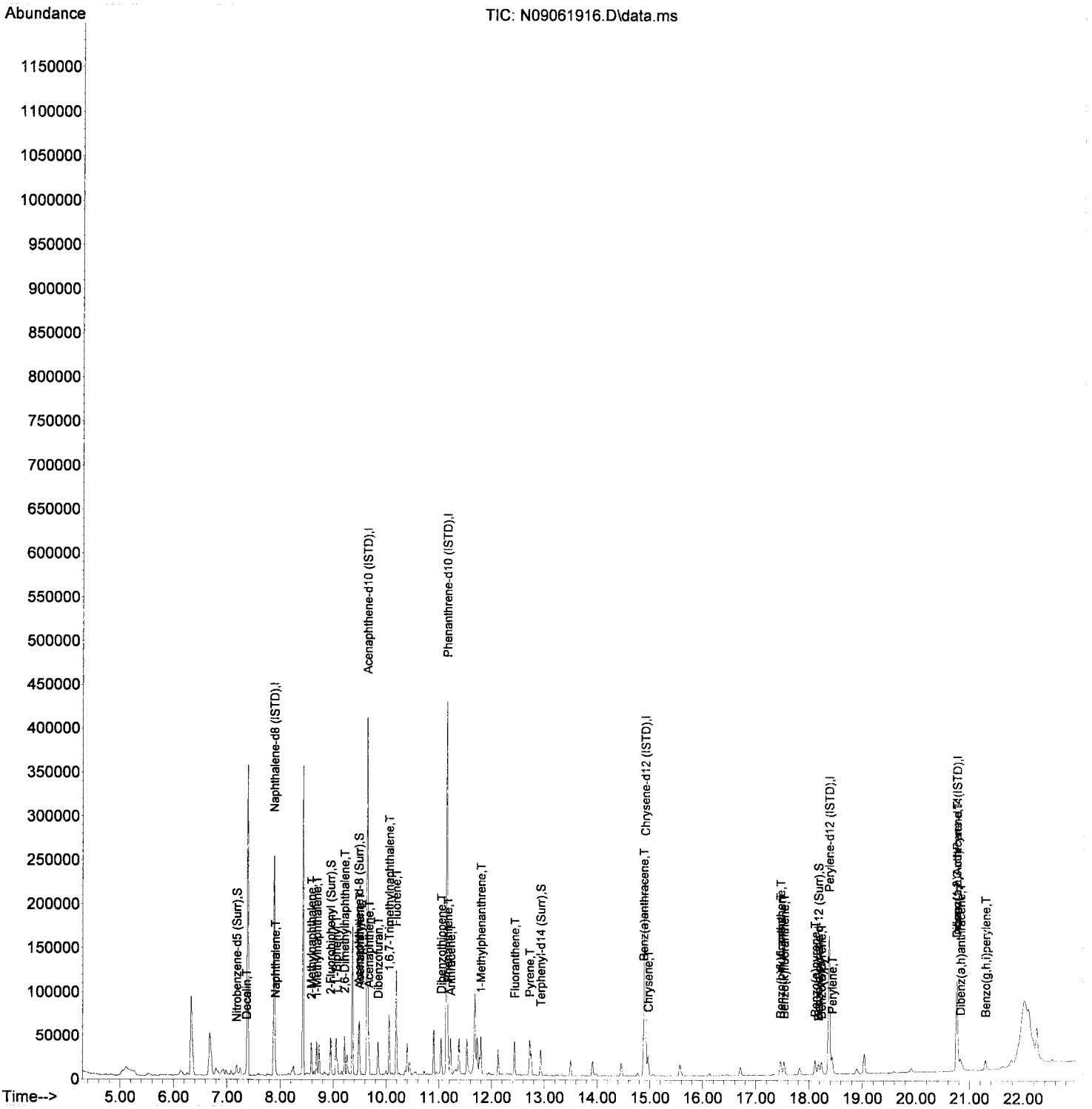
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	153303	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	125859	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	82058	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	5073	9.49	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	17737	10.05	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	27001	9.97	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	16215	10.06	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	9551	9.49	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.365	138	1106	9.23	ng/ml	96
4) Naphthalene	7.907	128	18065	10.18	ng/ml	98
5) 2-Methylnaphthalene	8.589	142	14250	9.48	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	14747	9.81	ng/ml	97
7) 1,1'-Biphenyl	9.055	154	19088	9.44	ng/ml	99
8) 2,6-Dimethylnaphthalene	9.212	156	13690	9.27	ng/ml	97
12) Acenaphthylene	9.498	152	25683	10.00	ng/ml	98
13) Acenaphthene	9.673	153	16768	9.97	ng/ml	99
14) Dibenzofuran	9.848	168	21062	10.00	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	10.057	170	13937	9.88	ng/ml	99
16) Fluorene	10.191	166	16819	9.77	ng/ml	100
18) Dibenzothiopene	11.042	184	22465	9.93	ng/ml	98
19) Phenanthrene	11.171	178	25204	9.95	ng/ml	100
20) Anthracene	11.223	178	22988	9.76	ng/ml	100
21) Carbazole	11.380	167	17697	No Calib		
22) 1-Methylphenanthrene	11.794	192	17190	9.77	ng/ml	100
23) Fluoranthene	12.435	202	24321	9.53	ng/ml	98
25) Pyrene	12.721	202	25073	10.47	ng/ml	99
27) Benz(a)anthracene	14.883	228	16760	9.42	ng/ml	97
28) Chrysene	14.965	228	16658	9.89	ng/ml	99
30) Benzo(b)fluoranthene	17.466	252	13743	9.46	ng/ml	97
31) Benzo(k)fluoranthene	17.530	252	13038	9.12	ng/ml	95
32) Benzo(b+k)fluoranthene	17.466	252	28065	9.45	ng/ml	95
34) Benzo(e)pyrene	18.113	252	13726	9.35	ng/ml	98
35) Benzo(a)pyrene	18.229	252	11353	9.13	ng/ml	99
36) Perylene	18.433	252	14964	9.77	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.759	276	9774	9.66	ng/ml	91
39) Dibenz(a,h)anthracene	20.829	278	9159	9.63	ng/ml	90
40) Benzo(g,h,i)perylene	21.295	276	10267	9.56	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061916.D
Acq On : 06 Sep 2019 06:27 pm
Operator :
Sample : 9I06028-CAL4
Misc : 1x, A19I018@10
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061917.D
Acq On : 06 Sep 2019 07:00 pm
Operator :
Sample : 9I06028-CAL5
Misc : 1x, A19I019@25
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

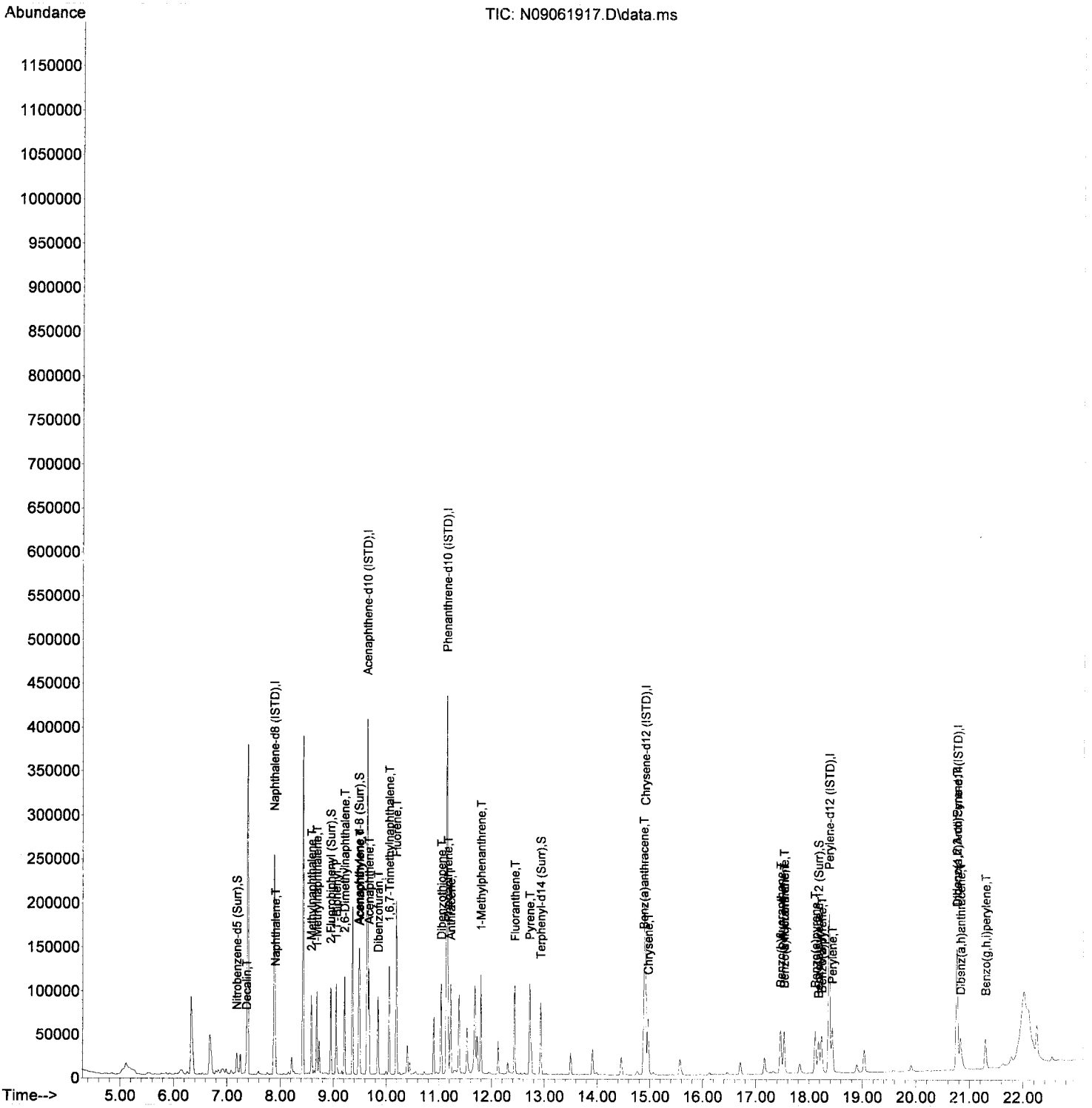
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	158689	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118239	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219818	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	167298	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	142122	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	96960	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	12124	22.99	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	44333	25.13	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	62320	24.95	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	44339	25.20	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	27791	24.45	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.365	138	2777	23.50	ng/ml	94
4) Naphthalene	7.907	128	43246	24.71	ng/ml	99
5) 2-Methylnaphthalene	8.589	142	35507	23.94	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	36615	24.69	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	47414	23.77	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	35377	24.28	ng/ml	98
12) Acenaphthylene	9.498	152	64887	25.28	ng/ml	98
13) Acenaphthene	9.673	153	41951	24.95	ng/ml	100
14) Dibenzofuran	9.848	168	52926	25.13	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.057	170	34543	24.50	ng/ml	99
16) Fluorene	10.191	166	43186	25.10	ng/ml	99
18) Dibenzothiopene	11.042	184	56622	24.63	ng/ml	98
19) Phenanthrene	11.171	178	63419	24.66	ng/ml	100
20) Anthracene	11.223	178	58731	24.55	ng/ml	99
21) Carbazole	11.380	167	47604	No Calib		
22) 1-Methylphenanthrene	11.794	192	44094	24.68	ng/ml	99
23) Fluoranthene	12.435	202	63845	24.64	ng/ml	99
25) Pyrene	12.721	202	66093	25.29	ng/ml	99
27) Benz(a)anthracene	14.883	228	46578	23.98	ng/ml	99
28) Chrysene	14.965	228	45910	24.98	ng/ml	99
30) Benzo(b)fluoranthene	17.466	252	40093	24.45	ng/ml	97
31) Benzo(k)fluoranthene	17.530	252	40088	24.83	ng/ml	98
32) Benzo(b+k)fluoranthene	17.530	252	83294	24.83	ng/ml	98
34) Benzo(e)pyrene	18.113	252	40463	24.40	ng/ml	98
35) Benzo(a)pyrene	18.235	252	34709	24.73	ng/ml	99
36) Perylene	18.433	252	43783	25.33	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	28895	24.16	ng/ml	94
39) Dibenz(a,h)anthracene	20.829	278	27156	24.16	ng/ml	92
40) Benzo(g,h,i)perylene	21.295	276	31234	24.62	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061917.D
Acq On : 06 Sep 2019 07:00 pm
Operator :
Sample : 9I06028-CAL5
Misc : 1x, A19I019@25
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061918.D
Acq On : 06 Sep 2019 07:32 pm
Operator :
Sample : 9I06028-CAL6
Misc : 1x, A19I020@50
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

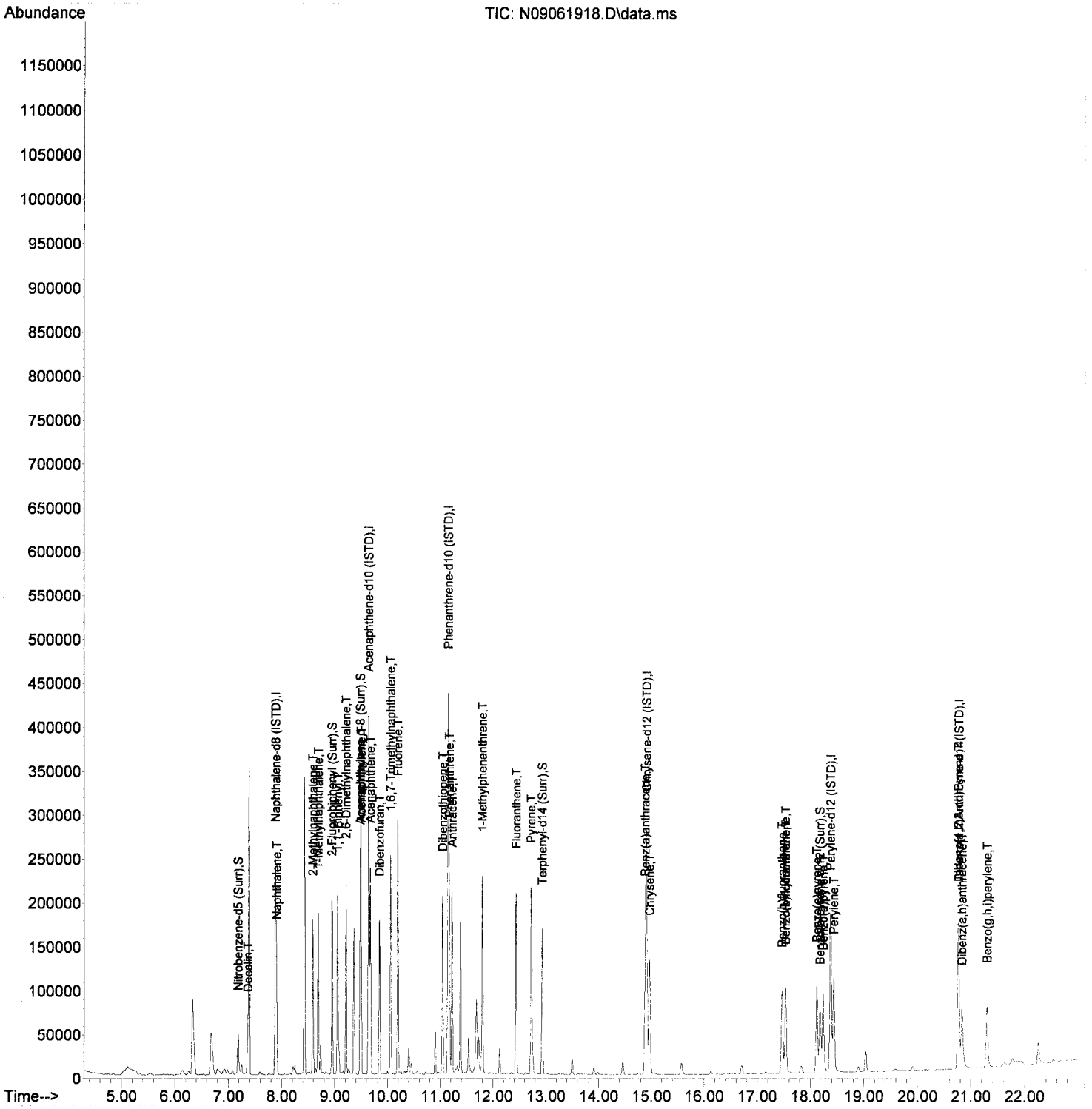
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148351	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	117951	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219661	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	169841	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	142416	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	93265	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	23996	48.68	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	87417	49.68	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	119179	49.18	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	88785	49.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	57544	50.53	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	5568	50.41	ng/ml	97
4) Naphthalene	7.907	128	80326	49.09	ng/ml	99
5) 2-Methylnaphthalene	8.589	142	69811	50.35	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	71477	51.56	ng/ml	97
7) 1,1'-Biphenyl	9.055	154	93359	50.06	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	69912	51.34	ng/ml	97
12) Acenaphthylene	9.498	152	128075	50.02	ng/ml	99
13) Acenaphthene	9.673	153	82212	49.02	ng/ml	100
14) Dibenzofuran	9.848	168	104783	49.88	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.057	170	68907	48.99	ng/ml	99
16) Fluorene	10.191	166	85319	49.71	ng/ml	100
18) Dibenzothiopene	11.042	184	113451	49.38	ng/ml	98
19) Phenanthrene	11.171	178	126501	49.21	ng/ml	100
20) Anthracene	11.223	178	118187	49.43	ng/ml	99
21) Carbazole	11.380	167	95634	No Calib		
22) 1-Methylphenanthrene	11.794	192	88417	49.52	ng/ml	99
23) Fluoranthene	12.435	202	128587	49.65	ng/ml	99
25) Pyrene	12.721	202	133393	50.27	ng/ml	100
27) Benz(a)anthracene	14.883	228	93207	47.27	ng/ml	100
28) Chrysene	14.965	228	91866	49.23	ng/ml	99
30) Benzo(b)fluoranthene	17.466	252	82867	50.43	ng/ml	98
31) Benzo(k)fluoranthene	17.530	252	79638	49.22	ng/ml	97
32) Benzo(b+k)fluoranthene	17.530	252	167848	49.93	ng/ml	97
34) Benzo(e)pyrene	18.118	252	81957	49.32	ng/ml	99
35) Benzo(a)pyrene	18.235	252	71520	50.85	ng/ml	98
36) Perylene	18.433	252	86757	50.08	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	57046	49.59	ng/ml	90
39) Dibenz(a,h)anthracene	20.829	278	53335	49.34	ng/ml	90
40) Benzo(g,h,i)perylene	21.295	276	61905	50.73	ng/ml	90

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061918.D
Acq On : 06 Sep 2019 07:32 pm
Operator :
Sample : 9I06028-CAL6
Misc : 1x, A19I020@50
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061919.D
Acq On : 06 Sep 2019 08:04 pm
Operator :
Sample : 9I06028-CAL7
Misc : 1x, A19I021@100
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

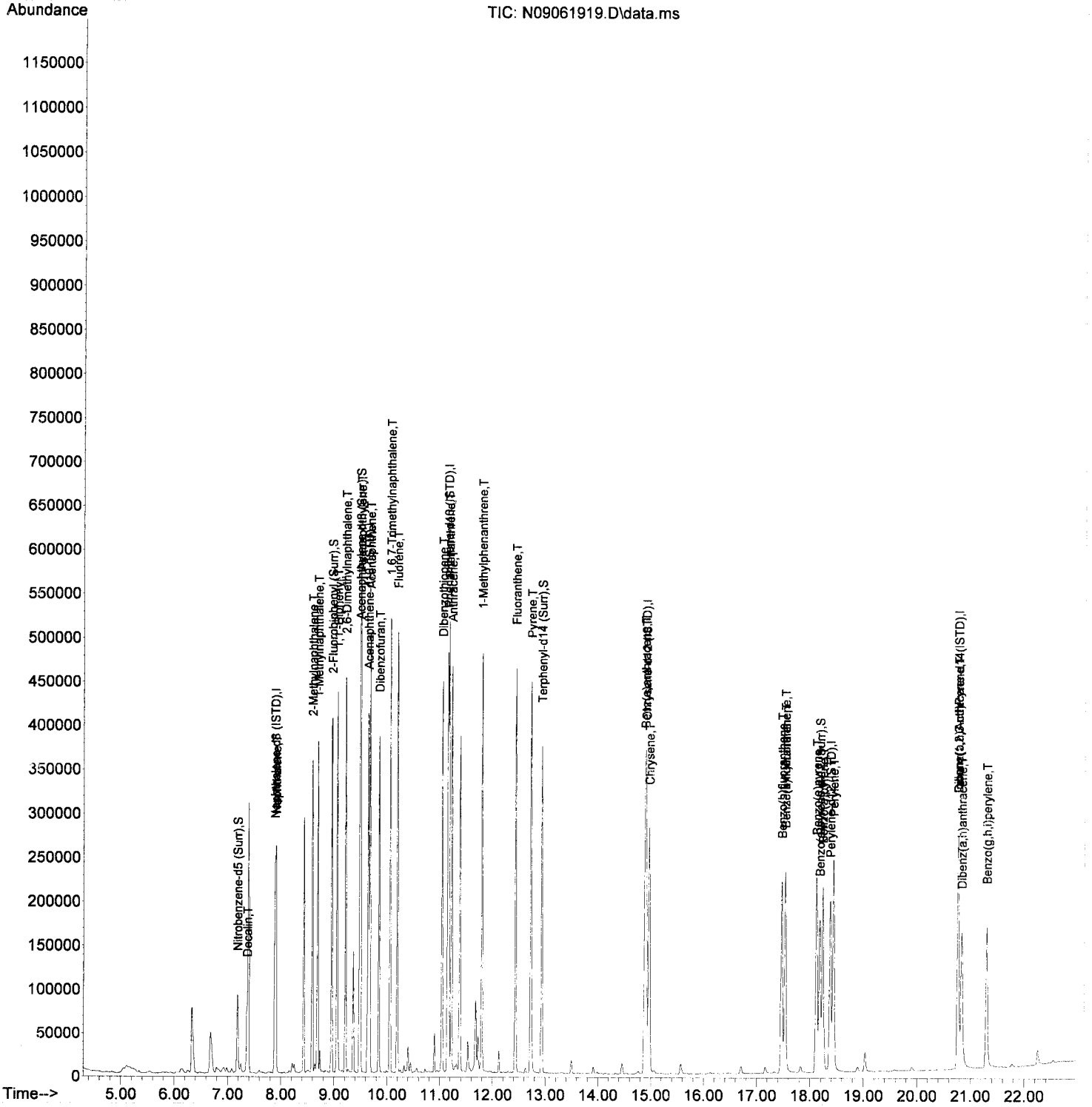
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148917	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	121411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	233582	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	187274	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	159070	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.764	292	103600	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	48056	97.11	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	182001	100.48	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	248072	101.01	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	196418	99.72	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.182	264	134446	105.69	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	11430	103.09	ng/ml	94
4) Naphthalene	7.906	128	161201	98.15	ng/ml	100
5) 2-Methylnaphthalene	8.588	142	143766	103.29	ng/ml	99
6) 1-Methylnaphthalene	8.687	142	146804	105.50	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	197491	105.50	ng/ml	99
8) 2,6-Dimethylnaphthalene	9.212	156	148070	108.31	ng/ml	97
12) Acenaphthylene	9.498	152	272913	103.54	ng/ml	99
13) Acenaphthene	9.672	153	175245	101.51	ng/ml	100
14) Dibenzofuran	9.847	168	222327	102.81	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.057	170	147218	101.68	ng/ml	100
16) Fluorene	10.191	166	185216	104.84	ng/ml	99
18) Dibenzothiopene	11.042	184	245278	100.40	ng/ml	98
19) Phenanthrene	11.170	178	270427	98.94	ng/ml	100
20) Anthracene	11.223	178	259236	101.96	ng/ml	99
21) Carbazole	11.380	167	211369	No Calib		
22) 1-Methylphenanthrene	11.794	192	192550	101.41	ng/ml	98
23) Fluoranthene	12.435	202	280652	101.91	ng/ml	99
25) Pyrene	12.727	202	292089	99.83	ng/ml	99
27) Benz(a)anthracene	14.889	228	213884	98.37	ng/ml	99
28) Chrysene	14.971	228	205074	99.67	ng/ml	99
30) Benzo(b)fluoranthene	17.471	252	189979	103.50	ng/ml	97
31) Benzo(k)fluoranthene	17.535	252	190175	105.23	ng/ml	97
32) Benzo(b+k)fluoranthene	17.535	252	390913	104.11	ng/ml	97
34) Benzo(e)pyrene	18.124	252	188367	101.49	ng/ml	98
35) Benzo(a)pyrene	18.241	252	165951	105.63	ng/ml	99
36) Perylene	18.439	252	198533	102.60	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.764	276	130568	102.18	ng/ml	90
39) Dibenz(a,h)anthracene	20.834	278	122057	101.65	ng/ml	90
40) Benzo(g,h,i)perylene	21.301	276	143780	106.06	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061919.D
Acq On : 06 Sep 2019 08:04 pm
Operator :
Sample : 9I06028-CAL7
Misc : 1x, A19I021@100
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061920.D
Acq On : 06 Sep 2019 08:37 pm
Operator :
Sample : 9I06028-CAL8
Misc : 1x, A19I022@200
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

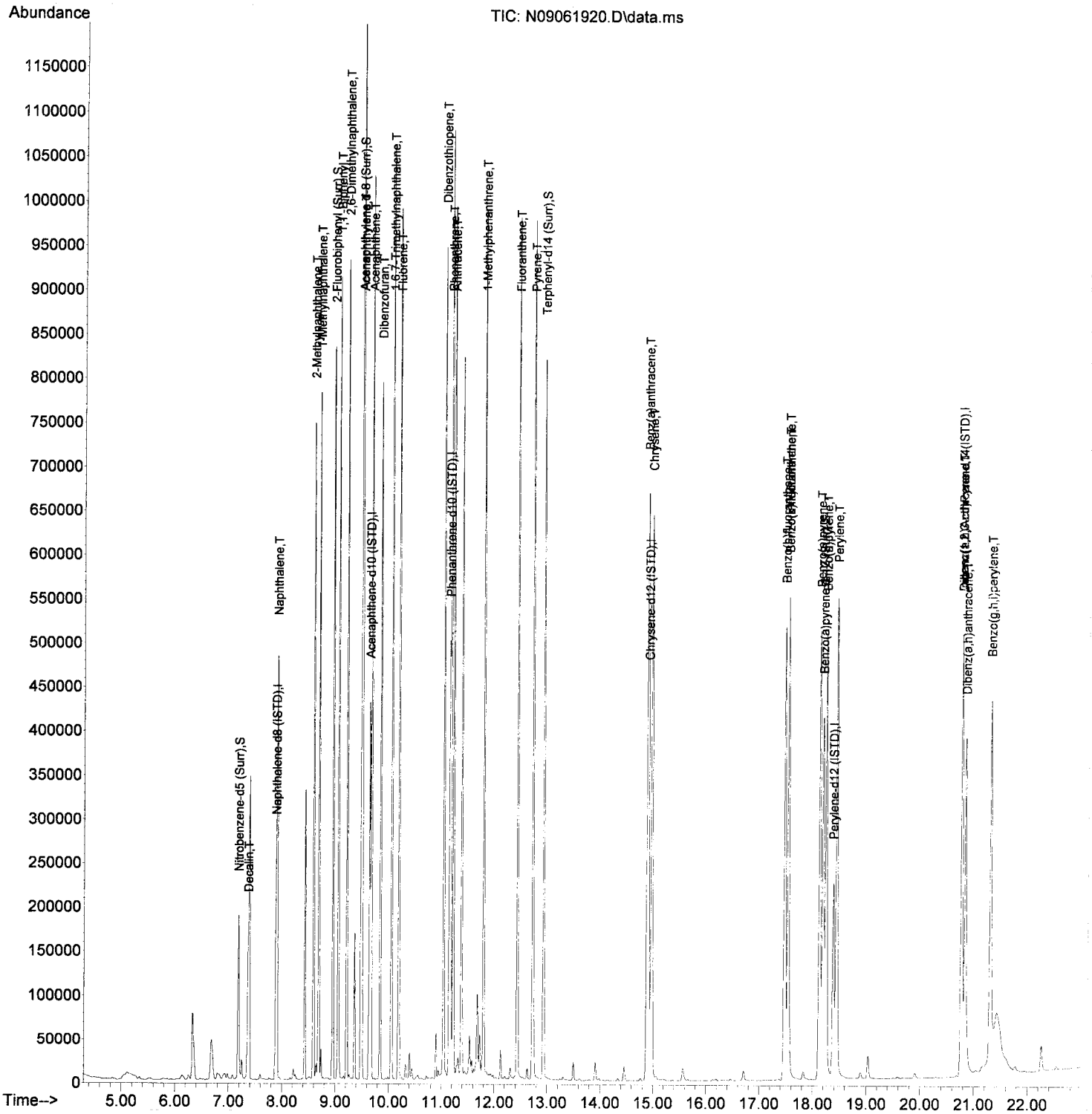
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211033	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	182214	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.770	292	126578	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	99288	200.83	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	378966	200.57	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	514554	202.58	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	430770	194.09	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.188	264	322602	221.39	ng/ml	0.01
Target Compounds						Qvalue
3) Decalin	7.364	138	22829	206.09	ng/ml	95
4) Naphthalene	7.907	128	324908	198.00	ng/ml	100
5) 2-Methylnaphthalene	8.588	142	297992	214.30	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	304942	219.34	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	413306	220.99	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	307564	225.18	ng/ml	99
12) Acenaphthylene	9.498	152	568160	206.64	ng/ml	99
13) Acenaphthene	9.673	153	362489	201.28	ng/ml	100
14) Dibenzofuran	9.848	168	462691	205.12	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.057	170	307091	203.33	ng/ml	98
16) Fluorene	10.197	166	391380	212.38	ng/ml	99
18) Dibenzothiopene	11.042	184	515882	201.91	ng/ml	98
19) Phenanthrene	11.171	178	575793	201.42	ng/ml	100
20) Anthracene	11.223	178	544931	204.94	ng/ml	99
21) Carbazole	11.380	167	461912	No Calib		
22) 1-Methylphenanthrene	11.800	192	411489	207.21	ng/ml	99
23) Fluoranthene	12.435	202	599723	208.23	ng/ml	99
25) Pyrene	12.727	202	623857	189.22	ng/ml	100
27) Benz(a)anthracene	14.889	228	484834	197.88	ng/ml	99
28) Chrysene	14.971	228	465584	200.80	ng/ml	99
30) Benzo(b)fluoranthene	17.477	252	448476	213.30	ng/ml	96
31) Benzo(k)fluoranthene	17.541	252	445148	215.03	ng/ml	97
32) Benzo(b+k)fluoranthene	17.541	252	917698	213.36	ng/ml	97
34) Benzo(e)pyrene	18.130	252	441980	207.89	ng/ml	99
35) Benzo(a)pyrene	18.247	252	395245	219.63	ng/ml	98
36) Perylene	18.451	252	467343	210.85	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.770	276	319524	204.65	ng/ml	89
39) Dibenz(a,h)anthracene	20.840	278	302142	205.95	ng/ml	89
40) Benzo(g,h,i)perylene	21.307	276	353209	213.26	ng/ml	90

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061920.D
Acq On : 06 Sep 2019 08:37 pm
Operator :
Sample : 9I06028-CAL8
Misc : 1x, A19I022@200
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061921.D
Acq On : 06 Sep 2019 09:09 pm
Operator :
Sample : 9I06028-CAL9
Misc : 1x, A19I023@300
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

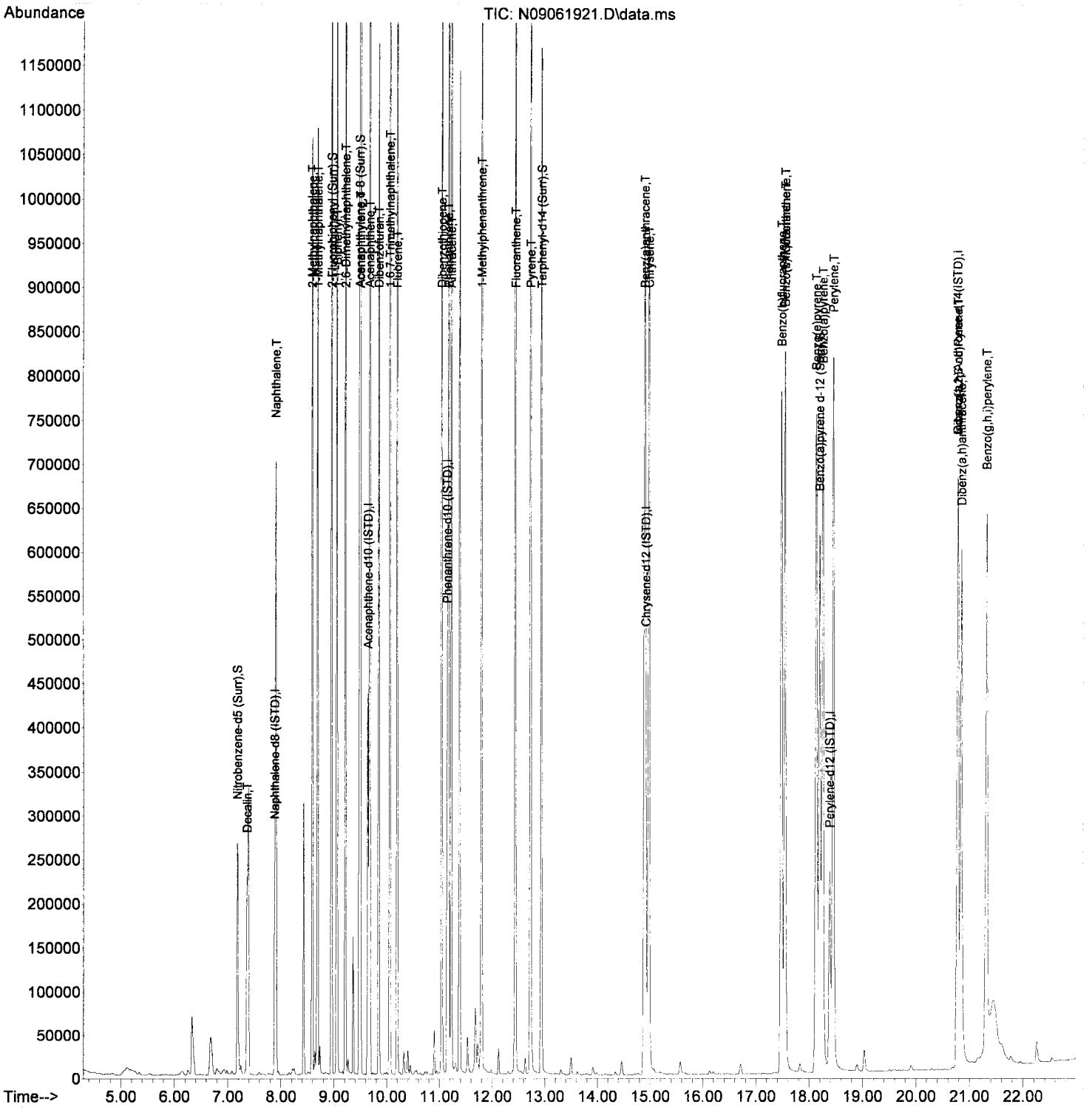
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	144322	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	126204	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	242216	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.918	240	215566	100.00	ng/ml	0.01
29) Perylene-d12 (ISTD)	18.386	264	189767	100.00	ng/ml	0.01
37) Dibenz(a,h)Anthrcene-d...	20.776	292	133133	100.00	ng/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	146381	305.23	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.955	172	559316	297.07	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	745779	295.55	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.936	244	642064	283.20	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.194	264	500951	330.10	ng/ml	0.02
Target Compounds						Qvalue
3) Decalin	7.364	138	32583	303.24	ng/ml	97
4) Naphthalene	7.906	128	466678	293.18	ng/ml	100
5) 2-Methylnaphthalene	8.588	142	433604	321.46	ng/ml	99
6) 1-Methylnaphthalene	8.693	142	439781	326.10	ng/ml	99
7) 1,1'-Biphenyl	9.055	154	601929	331.80	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.218	156	447080	337.45	ng/ml	99
12) Acenaphthylene	9.498	152	818063	298.58	ng/ml	99
13) Acenaphthene	9.672	153	525474	292.81	ng/ml	99
14) Dibenzofuran	9.847	168	670519	298.30	ng/ml	100
15) 1,6,7-Trimethylnaphtha...	10.057	170	446194	296.47	ng/ml	97
16) Fluorene	10.197	166	565155	307.76	ng/ml	99
18) Dibenzothiopene	11.042	184	757296	298.94	ng/ml	98
19) Phenanthrene	11.170	178	823752	290.63	ng/ml	99
20) Anthracene	11.223	178	800967	303.81	ng/ml	100
21) Carbazole	11.380	167	683176	No Calib		
22) 1-Methylphenanthrene	11.800	192	600130	304.80	ng/ml	99
23) Fluoranthene	12.441	202	885026	309.92	ng/ml	98
25) Pyrene	12.727	202	915663	271.88	ng/ml	100
27) Benz(a)anthracene	14.895	228	736689	294.35	ng/ml	100
28) Chrysene	14.976	228	698605	294.96	ng/ml	99
30) Benzo(b)fluoranthene	17.483	252	692733	316.36	ng/ml	96
31) Benzo(k)fluoranthene	17.547	252	681890	316.29	ng/ml	97
32) Benzo(b+k)fluoranthene	17.547	252	1407871	314.29	ng/ml	97
34) Benzo(e)pyrene	18.136	252	676479	305.53	ng/ml	99
35) Benzo(a)pyrene	18.258	252	607972	324.39	ng/ml	98
36) Perylene	18.456	252	713926	309.27	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	498760	303.72	ng/ml	88
39) Dibenz(a,h)anthracene	20.846	278	471957	305.86	ng/ml	90
40) Benzo(g,h,i)perylene	21.318	276	546350	313.63	ng/ml	89

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061921.D
Acq On : 06 Sep 2019 09:09 pm
Operator :
Sample : 9I06028-CAL9
Misc : 1x, A19I023@300
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061922.D
Acq On : 06 Sep 2019 09:41 pm
Operator :
Sample : 9I06028-CALA
Misc : 1x, A19I024@400
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

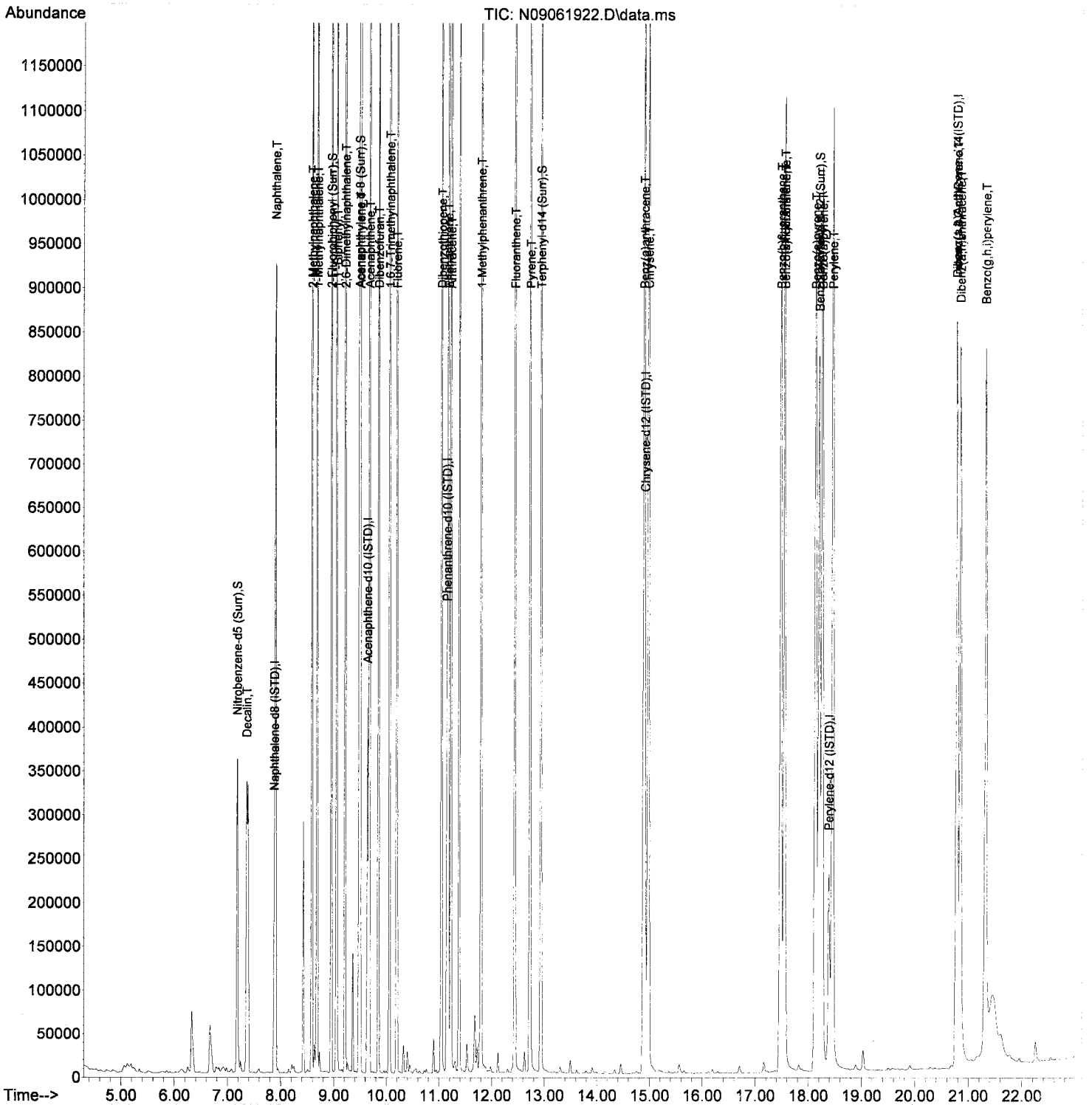
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	151798	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	120378	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	227701	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211373	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.387	264	191099	100.00	ng/ml	0.01
37) Dibenz(a,h)Anthrcene-d...	20.776	292	134738	100.00	ng/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	204654	405.72	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	721151	401.56	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	964800	401.86	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	855839	384.98	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.200	264	689197	450.98	ng/ml	0.02
Target Compounds						Qvalue
3) Decalin	7.359	138	49479	437.80	ng/ml	96
4) Naphthalene	7.901	128	662079	395.46	ng/ml	100
5) 2-Methylnaphthalene	8.589	142	592165	417.39	ng/ml	99
6) 1-Methylnaphthalene	8.688	142	595669	419.94	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	776505	406.95	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	574431	412.22	ng/ml	99
12) Acenaphthylene	9.498	152	1039006	397.57	ng/ml	99
13) Acenaphthene	9.673	153	672408	392.83	ng/ml	99
14) Dibenzofuran	9.848	168	849810	396.36	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.057	170	567245	395.14	ng/ml	98
16) Fluorene	10.191	166	710688	405.74	ng/ml	99
18) Dibenzothiopene	11.042	184	950081	398.95	ng/ml	98
19) Phenanthrene	11.171	178	1041489	390.88	ng/ml	99
20) Anthracene	11.223	178	1015402	409.70	ng/ml	100
21) Carbazole	11.380	167	865078	No Calib		
22) 1-Methylphenanthrene	11.794	192	771189	416.65	ng/ml	99
23) Fluoranthene	12.435	202	1148955	427.99	ng/ml	98
25) Pyrene	12.727	202	1201811	363.93	ng/ml	100
27) Benz(a)anthracene	14.889	228	991720	404.11	ng/ml	99
28) Chrysene	14.977	228	942172	405.69	ng/ml	99
30) Benzo(b)fluoranthene	17.483	252	952609	432.01	ng/ml	96
31) Benzo(k)fluoranthene	17.553	252	938589	432.32	ng/ml	96
32) Benzo(b+k)fluoranthene	17.553	252	1935514	429.07	ng/ml	96
34) Benzo(e)pyrene	18.136	252	924774	414.75	ng/ml	99
35) Benzo(a)pyrene	18.258	252	837229	443.59	ng/ml	98
36) Perylene	18.456	252	976822	420.21	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	691371	416.00	ng/ml	88
39) Dibenz(a,h)anthracene	20.846	278	656172	420.18	ng/ml	89
40) Benzo(g,h,i)perylene	21.318	276	751545	426.28	ng/ml	89

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061922.D
Acq On : 06 Sep 2019 09:41 pm
Operator :
Sample : 9I06028-CALA
Misc : 1x, A19I024@400
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

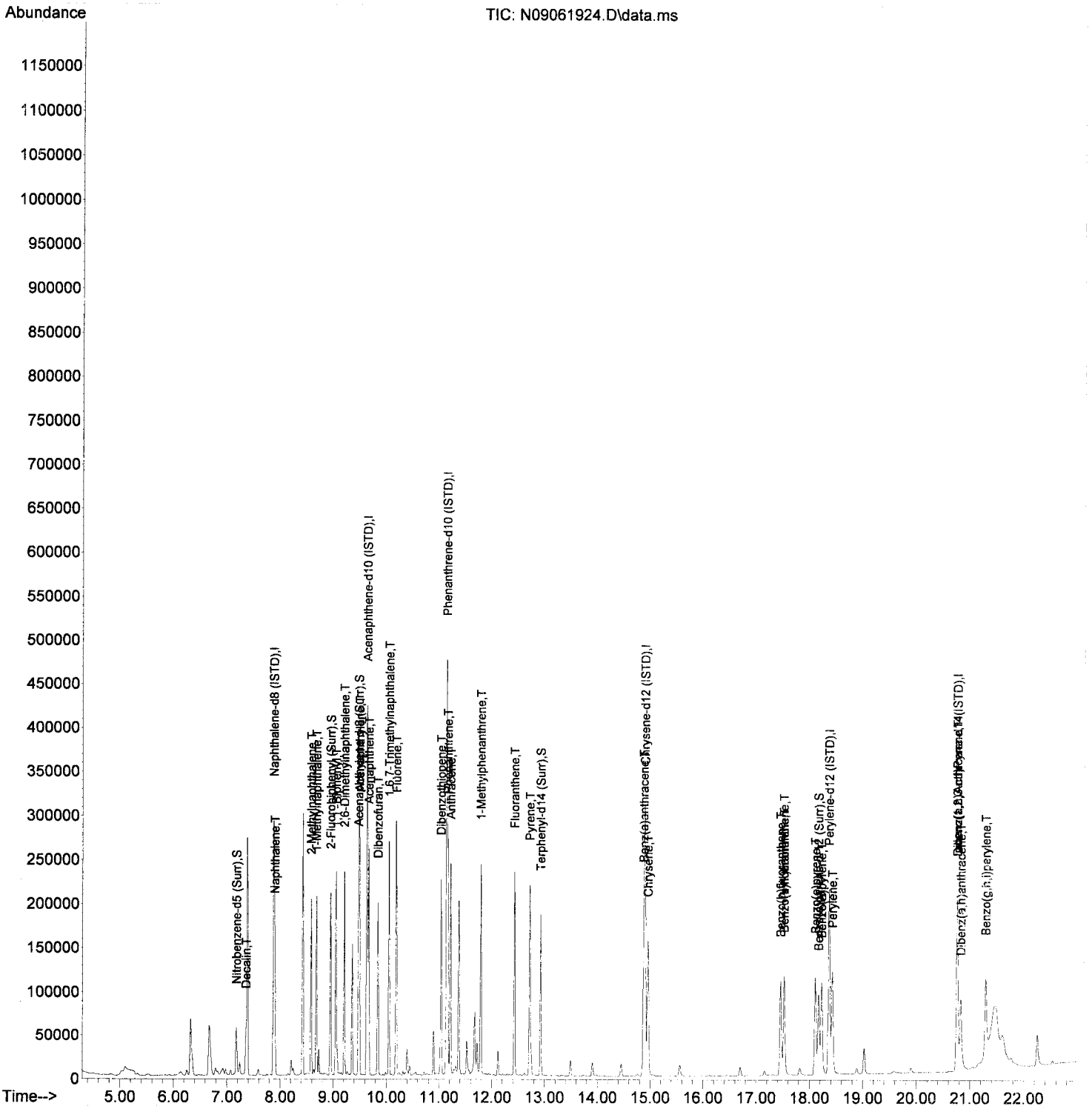
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	108931	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.359	138	6597	48.75	ng/ml	96
4) Naphthalene	7.901	128	100112	49.94	ng/ml	99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml	99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml	98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml	99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml	100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml	99
16) Fluorene	10.191	166	92650	50.87	ng/ml	98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml	98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml	100
20) Anthracene	11.217	178	132505	51.79	ng/ml	99
21) Carbazole	11.375	167	104923	No Calib		
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml	100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml	99
25) Pyrene	12.721	202	144864	49.14	ng/ml	99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml	99
28) Chrysene	14.959	228	108583	52.38	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml	97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml	97
32) Benzo(b+k)fluoranthene	17.524	252	193724	50.37	ng/ml	97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml	98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml	99
36) Perylene	18.427	252	100869	50.89	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.97	ng/ml	89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.33	ng/ml	90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.57	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Final Reqmart

Quant Time: Sep 10 10:28:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14

JK 9/10/19

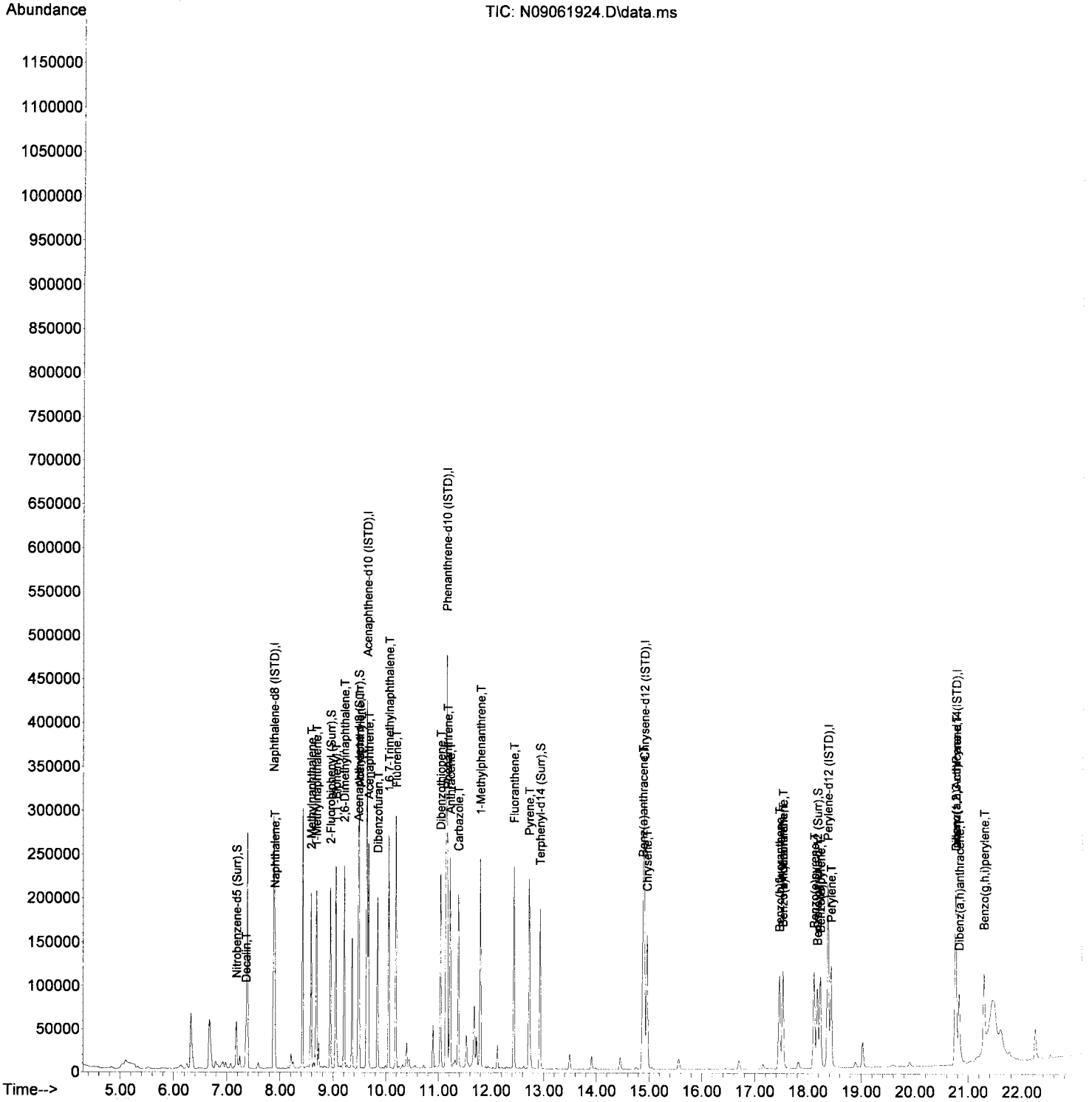
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	108931	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.359	138	6597	48.75	ng/ml	96
4) Naphthalene	7.901	128	100112	49.94	ng/ml	99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml	99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml	98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml	99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml	100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml	99
16) Fluorene	10.191	166	92650	50.87	ng/ml	98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml	98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml	100
20) Anthracene	11.217	178	132505	51.79	ng/ml	99
21) Carbazole	11.375	167	104923	50.68	ng/ml	99
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml	100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml	99
25) Pyrene	12.721	202	144864	49.14	ng/ml	99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml	99
28) Chrysene	14.959	228	108583	52.38	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml	97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml	97
32) Benzo(b+k)fluoranthene	17.524	252	193724	100.73	ng/ml	97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml	98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml	99
36) Perylene	18.427	252	100869	50.89	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.98	ng/ml	89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.34	ng/ml	90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.58	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Conventional Chemistry Parameters
Benchsheet & Analysis Sequence Data

Total Organic Carbon- Soil (5310 B)

Batch 0020128
Batch 0020270
Sequence 0B10055 (A0A1011-01,02,03,04,05,06)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

FEB 1 2 2020

BATCH #: 0020128 (Sediment)

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	pH Other	pH >11
	0020128-BLK1		QC	02/05/20 09:26	5	5									
	0020128-BS1		QC	02/05/20 09:26	5	5	A19K246		1						
	A0A1010-01	A	Total Organic Carbon - Soil (5310 B)	02/05/20 09:26	5	5					PDI-026SC-A-06 -07-191014				
	0020128-DUP1		QC	02/05/20 09:26	5	5		A0A1010-01							
	0020128-DUP2		QC	02/05/20 09:26	5	5		A0A1010-01				triplicate			
	A0A1011-04	A	Total Organic Carbon - Soil (5310 B)	02/05/20 09:26	5	5					PDI-062SC-A-08 -09-191023				
	0020128-DUP3		QC	02/05/20 09:26	5	5		A0A1011-04							
	A0A1011-05	A	Total Organic Carbon - Soil (5310 B)	02/05/20 09:26	5	5					PDI-062SC-A-09 -10-191023				
	A0A1011-06	A	Total Organic Carbon - Soil (5310 B)	02/05/20 09:26	5	5					PDI-062SC-A-10 -11-191023				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
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
A19L107	06/06/20	10% Phosphoric Acid

Analyte Spike(s)

Std ID	Exp. Date	Description
A19K246	05/12/20	TOC 10k ppm secondary

Surrogate(s)

Std ID	Exp. Date	Description

CAR 2/11/2020
Prepared By: Date

Reviewed By: 2/12/20
Date

Batch 0020128 TOC PSEP preweigh Analyst DAS

2/7/2020 1514 2/5/2020 0930

Date/Time:	2/6/2020 1122	2/6/2020 1738	2/7/2020 1021	2/7/2020 1243	Effervesces?	Comments
T(°C) IN / OUT:	~~69.0~~ 70.6 / 68.5	69.8 / 68.0	69.7 / 68.4	70.9 / 70.2		70.2 / 70.0 70.1
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
~~A0A1002-01~~	~~6.8085~~	~~6.8039~~	~~6.8048~~			*Cont. am 2/7/2020
~~0020128-DUP1~~	~~6.2990~~	~~6.3130~~	~~6.2984~~			↓
~~A0A1002-02~~	~~6.0132~~	~~6.0279~~	~~6.0121~~			
A0A1010-01 ✓	5.7924	5.8042	5.7864	5.7722	No	5.7806 / 5.7605
0020128-DUP3 ✓	4.6674	4.6758	4.6654		↓	
~~A0A011-01~~	5.3416	5.3559	5.3428			*Cont. am 2/7/2020
~~0020128-DUP4~~	~~4.1609~~	~~4.1692~~	~~4.1595~~			↓
~~A0A1011-02~~	~~4.4316~~	~~4.4399~~	~~4.4290~~			
~~A0A1011-03~~	~~5.6497~~	~~5.6587~~	~~5.6478~~			
A0A1011-04 ✓	5.9505	5.9613	5.9465		No	
A0A1011-05 ✓	6.3940	6.4035	6.3900		↓	
A0A1011-06 ✓ am 2/6/2020	6.4747	6.4851	6.4649	6.4451	↓	*6.4581 / 6.4352
						71.1 / 70.9
A0A1010-01	5.7619					2/10/2020 0910
A0A1011-06	6.4357					

* Sample A0A0991-01 tray spilled during homogenization contaminating another number of samples. am 2/8/2020

In oven @ 0744 @ 70.8°C 2/5/2020. am 2/5/2020

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0020270 (Sediment) FEB 12 2020

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	pH Other	pH >11
	0020270-BLK1		QC	02/08/20 09:40	5	5									
	0020270-BS1		QC	02/08/20 09:40	5	5	A19K246		1						
	A0A1002-01	A	Total Organic Carbon - Soil (5310 B)	02/08/20 09:40	5	5					PDI-076SC-A-08-09-191013				
	0020270-DUP1		QC	02/08/20 09:40	5	5		A0A1002-01							
	0020270-DUP2		QC	02/08/20 09:40	5	5		A0A1002-01				triplicate			
	A0A1002-02	A	Total Organic Carbon - Soil (5310 B)	02/08/20 09:40	5	5					PDI-076SC-A-09-10-191013				
	A0A1011-01	A	Total Organic Carbon - Soil (5310 B)	02/08/20 09:40	5	5					PDI-057SC-A-06-07-191023				
	0020270-DUP3		QC	02/08/20 09:40	5	5		A0A1011-01							
	A0A1011-02	A	Total Organic Carbon - Soil (5310 B)	02/08/20 09:40	5	5					PDI-057SC-A-07-08-191023				
	A0A1011-03	A	Total Organic Carbon - Soil (5310 B)	02/08/20 09:40	5	5					PDI-057SC-A-08-09-191023				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
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
A19L107	06/06/20	10% Phosphoric Acid

Analyte Spike(s)

Std ID	Exp. Date	Description
A19K246	05/12/20	TOC 10k ppm secondary

Surrogate(s)

Std ID	Exp. Date	Description

Prepared By: 2/11/2020 Date

Reviewed By: 2/12/20 Date

Batch 0020270 TOC PSEP preweigh Analyst DAS

2/10/2020 1625

Date/Time:	2/10/2020 0923	2/10/2020 1206	2/10/2020 1321	2/10/2020 1447	Effervesces?	Comments
T(°C) IN / OUT:	71.1 / 70.9	71.5 / 70.8	71.1 / 70.3	70.1 / 69.9		70.2 / 70.7
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
A0A1002-01	8.5446	8.5303	8.5215 ✓	8.5215 ✓	No	
0020270-DUP1	6.3518	6.3440	6.3318 ✓	6.3343 ✓		
A0A1002-02	10.0400	10.0274	10.0141 ✓	10.0189 ✓		
A0A1011-01	5.8610	5.8507	5.8432 ✓	5.8464 ✓		
0020270-DUP2	5.8385	5.8267	5.8143 ✓	5.8201		5.8136 ✓
A0A1011-02	6.9128	6.9002	6.8891 ✓	6.8924 ✓		
A0A1011-03	7.7747	7.7638	7.7522 ✓	7.7557 ✓		

In oven @ 71.1°C 2/8/2020 0940.
CM 2/10/2020

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

FEB 1 2 2020

Sequence: **0B10055** Instrument: **TOC6**

Date: **02/10/20 18:04** Calibration: **A0A0805**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B10055-CCV1	Sediment	QC	QC				A20B041
2	0B10055-CCB1	Sediment	QC	QC				
3	0020126-BLK1	Sediment	QC	QC		0020126		
4	0020126-BS1	Sediment	QC	QC		0020126		
5	A0A0991-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
6	A0A0991-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
7	A0A0991-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
8	A0A0991-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
9	A0A0991-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
10	A0A0991-06	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
11	0020126-DUP1	Sediment	QC	QC		0020126		
12	0020126-DUP2	Sediment	QC	QC		0020126		
13	0B10055-CCV2	Sediment	QC	QC				A20B041
14	0B10055-CCB2	Sediment	QC	QC				
15	A0A0994-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
16	0020126-DUP3	Sediment	QC	QC		0020126		
17	A0A0994-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
18	A0A0996-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
19	0020126-DUP4	Sediment	QC	QC		0020126		
20	A0A0996-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
21	A0A0996-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
22	A0A0996-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
23	A0A0996-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
24	A0A0996-06	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020126		
25	0B10055-CCV3	Sediment	QC	QC				A20B041
26	0B10055-CCB3	Sediment	QC	QC				
27	0020128-BLK1	Sediment	QC	QC		0020128		
28	0020128-BS1	Sediment	QC	QC		0020128		
29	A0A1010-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020128		
30	0020128-DUP1	Sediment	QC	QC		0020128		
31	0020128-DUP2	Sediment	QC	QC		0020128		
32	A0A1011-04	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020128		
33	0020128-DUP3	Sediment	QC	QC		0020128		
34	A0A1011-05	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020128		
35	A0A1011-06	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020128		
36	0B10055-CCV4	Sediment	QC	QC				A20B041
37	0B10055-CCB4	Sediment	QC	QC				
38	0020144-BLK1	Soil	QC	QC		0020144		
39	0020144-BS1	Soil	QC	QC		0020144		
40	0020144-DUP1	Soil	QC	QC		0020144		
41	0020144-DUP2	Soil	QC	QC		0020144		
42	A0A1061-01	Soil	Total Organic Carbon - Soil (5310 B)		02/13/20	0020144		
43	A0A1061-02	Soil	Total Organic Carbon - Soil (5310 B)		02/13/20	0020144		
44	0020270-BLK1	Sediment	QC	QC		0020270		
45	0020270-BS1	Sediment	QC	QC		0020270		
46	A0A1002-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020270		
47	0B10055-CCV5	Sediment	QC	QC				A20B041
48	0B10055-CCB5	Sediment	QC	QC				
49	0020270-DUP1	Sediment	QC	QC		0020270		
50	0020270-DUP2	Sediment	QC	QC		0020270		
51	A0A1002-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020270		

Sequence:	0B10055	Instrument:	TOC6
Date:	02/10/20 18:04	Calibration:	A0A0805

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	A0A1011-01	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020270		
53	0020270-DUP3	Sediment	QC	QC		0020270		
54	A0A1011-02	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020270		
55	A0A1011-03	Sediment	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/13/20	0020270		
56	0B10055-CCV6	Sediment	QC	QC				A20B041
57	0B10055-CCB6	Sediment	QC	QC				

Data Entered By: MAS 2-11-20

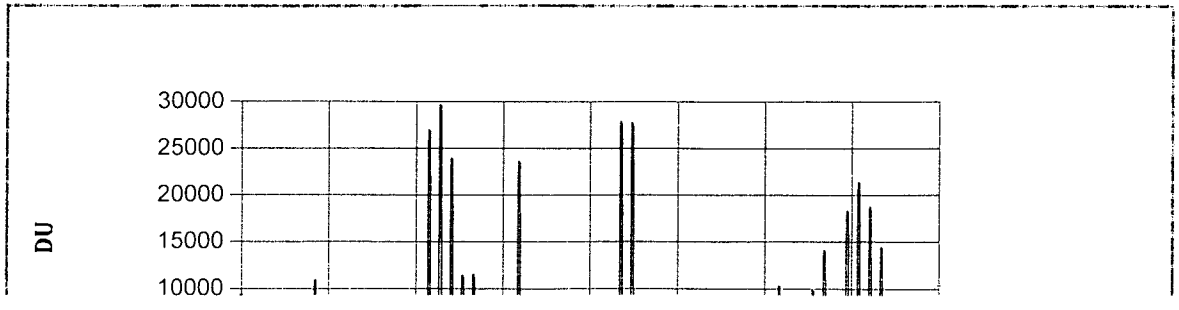
Comments:

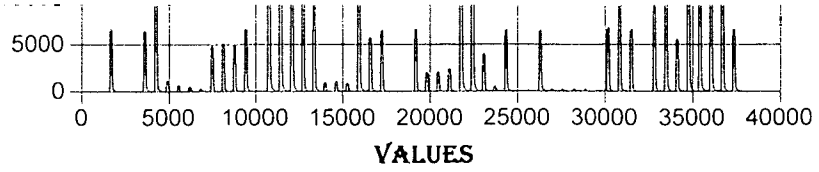
Data Reviewed By: ALF 2/12/20

Method:	TCDirect	Run Start Time:	2/10/2020 7:25:38 P
Method Type:	TC_DIRECT	Run End Time:	2/11/2020 6:09:47 A
Table:	0B10055	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020200210A1

Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A99	prime	200	49.612	0.01	4321.08	2/10/2020 7:25:51 PM
A2	blank	200	43.262	0.009	3652.875	2/10/2020 7:36:52 PM
A1	0B10055-CCV1	200	9738.622	1.948	1023791.86	2/10/2020 7:47:45 PM
A2	0B10055-CCB1	200	48.855	0.01	4241.37	2/10/2020 7:58:32 PM
A3	0020126-BLK1	213.3	63.773	0.014	6257.28	2/10/2020 8:09:19 PM
A4	0020126-BS1	200	9728.229	1.946	1022698.24	2/10/2020 8:20:06 PM
A5	A0A0991-01	27	117058.402	3.161	1661869.2	2/10/2020 8:30:53 PM
A6	A0A0991-02	202.4	1708.199	0.346	180993.17	2/10/2020 8:41:40 PM
A7	A0A0991-03	202.8	924.6	0.188	97748.62	2/10/2020 8:52:27 PM
A8	A0A0991-04	200.7	743.673	0.149	77623.545	2/10/2020 9:03:14 PM
A9	A0A0991-05	204.9	417.584	0.086	44115.27	2/10/2020 9:14:01 PM
A10	A0A0991-06	202	7011.721	1.416	744246.88	2/10/2020 9:24:47 PM
A11	0020126-DUP1	204.4	7428.396	1.518	797906.895	2/10/2020 9:35:34 PM
A12	0020126-DUP2	206.1	7036.469	1.45	762054.585	2/10/2020 9:46:21 PM
A13	0B10055-CCV2	200	9896.545	1.979	1040408.32	2/10/2020 9:57:08 PM
A2	0B10055-CCB2	200	54.764	0.011	4863.165	2/10/2020 10:07:55 PM
A14	A0A0994-01	200.9	39592.428	7.954	4183734.675	2/10/2020 10:18:48 PM
A15	0020126-DUP3	203.4	42999.802	8.746	4600424.59	2/10/2020 10:29:42 PM
A16	A0A0994-02	203.6	34720.999	7.069	3718179.55	2/10/2020 10:40:29 PM
A17	A0A0996-01	200.8	16824.015	3.378	1776392.75	2/10/2020 10:51:16 PM
A18	0020126-DUP4	202.6	16934.386	3.431	1804088.75	2/10/2020 11:02:02 PM
A19	A0A0996-02	202.9	1377.674	0.28	146160.645	2/10/2020 11:12:49 PM
A20	A0A0996-03	201.4	1595.967	0.321	168202.88	2/10/2020 11:23:35 PM
A21	A0A0996-04	203	1305.051	0.265	138477.18	2/10/2020 11:34:22 PM
A22	A0A0996-05	200.8	34623.778	6.952	3656762.66	2/10/2020 11:45:09 PM
A23	A0A0996-06	201.4	8394.297	1.691	888525.55	2/10/2020 11:55:56 PM
A24	0B10055-CCV3	200	9645.327	1.929	1013975.34	2/11/2020 12:06:43 AM
A2	0B10055-CCB3	200	67.29	0.013	6181.12	2/11/2020 12:17:29 AM
A25	0020128-BLK1	213.4	61.872	0.013	6047.16	2/11/2020 12:28:23 AM
A26	0020128-BS1	200	9906.647	1.981	1041471.27	2/11/2020 12:39:17 AM
A27	A0A1010-01	202	2969.391	0.6	314662.5	2/11/2020 12:50:04 AM
A28	0020128-DUP1	204.8	3004.99	0.615	322872.225	2/11/2020 1:00:50 AM
A29	0020128-DUP2	203.6	3517.284	0.716	375848.58	2/11/2020 1:11:38 AM

A30	A0A1011-04	203.5	40181.961	8.177	4301006.95	2/11/2020 1:22:24 AM
A31	0020128-DUP3	203	40178.289	8.156	4290045.07	2/11/2020 1:33:11 AM
A32	A0A1011-05	201.7	5859.183	1.182	620840.265	2/11/2020 1:43:58 AM
A33	A0A1011-06	202.1	757.959	0.153	79690.19	2/11/2020 1:54:45 AM
A34	0B10055-CCV4	200	9790.049	1.958	1029202.88	2/11/2020 2:05:32 AM
A2	0B10055-CCB4	200	62.865	0.013	5715.53	2/11/2020 2:16:19 AM
A35	0020144-BLK1	215.6	78.59	0.017	8015.04	2/11/2020 2:27:13 AM
A36	0020144-BS1	200	9791.729	1.958	1029379.7	2/11/2020 2:38:06 AM
A37	A0A1061-01	203.3	322.246	0.066	33566.885	2/11/2020 2:48:53 AM
A38	0020144-DUP1	201.6	271.726	0.055	27920.44	2/11/2020 2:59:40 AM
A39	0020144-DUP2	205.1	243.876	0.05	25415.72	2/11/2020 3:10:26 AM
A40	A0A1061-02	206.2	279.929	0.058	29467.95	2/11/2020 3:21:13 AM
A41	0020270-BLK1	215.5	75.604	0.016	7672.38	2/11/2020 3:32:00 AM
A42	0020270-BS1	200	9944.308	1.989	1045433.9	2/11/2020 3:43:01 AM
A43	A0A1002-01	203.6	14989.841	3.052	1604711.35	2/11/2020 3:53:55 AM
A44	0B10055-CCV5	200	9756.516	1.951	1025674.61	2/11/2020 4:04:48 AM
A2	0B10055-CCB5	200	62.267	0.012	5652.565	2/11/2020 4:15:43 AM
A45	0020270-DUP1	201.1	14441.23	2.904	1526954.17	2/11/2020 4:26:30 AM
A46	0020270-DUP2	202.8	20587.492	4.175	2195629.03	2/11/2020 4:37:23 AM
A47	A0A1002-02	202.7	8211.921	1.665	874818.14	2/11/2020 4:48:17 AM
A48	A0A1011-01	200.7	27018.146	5.423	2851880.97	2/11/2020 4:59:11 AM
A49	0020270-DUP3	201.8	31423.127	6.341	3335176.94	2/11/2020 5:10:05 AM
A50	A0A1011-02	204.3	27115.366	5.54	2913501.35	2/11/2020 5:20:58 AM
A51	A0A1011-03	202.8	21094.69	4.278	2249743.23	2/11/2020 5:31:52 AM
A52	0B10055-CCV6	200	9910.452	1.982	1041871.655	2/11/2020 5:42:46 AM
A2	0B10055-CCB6	200	76.733	0.015	7174.735	2/11/2020 5:53:40 AM

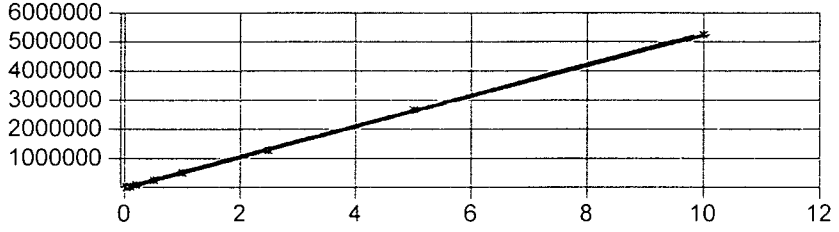




SNACCESS

RUN NAME : SN10020200108A1 METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO FIRST ORDER GROUP : 1

A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-SQUARED = 0.99988235075750



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Conventional Chemistry Parameters
Calibration Data

Sequence 0A08052 (Cal ID A0A0805) TOC6

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

JAN 13 2020

Sequence: **0A08052** Instrument: **TOC6**

Date: **01/08/20 16:29** Calibration: **A0A0805**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A08052-CAL1	Sediment	QC	QC				
2	0A08052-CAL2	Sediment	QC	QC				A20A053
3	0A08052-CAL3	Sediment	QC	QC				A20A054
4	0A08052-CAL4	Sediment	QC	QC				A20A056
5	0A08052-CAL5	Sediment	QC	QC				A20A057
6	0A08052-CAL6	Sediment	QC	QC				A20A058
7	0A08052-CAL7	Sediment	QC	QC				A20A059
8	0A08052-CAL8	Sediment	QC	QC				A20A060
9	0A08052-CAL9	Sediment	QC	QC				A20A061
10	0A08052-ICV1	Sediment	QC	QC				A19K246
11	0A08052-ICB1	Sediment	QC	QC				

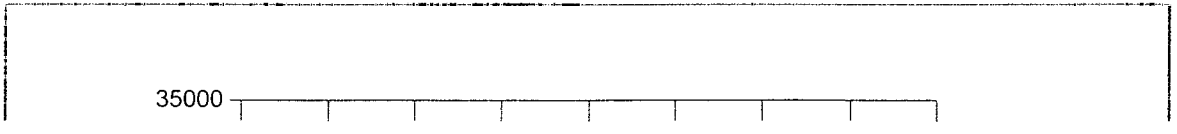
Data Entered By: CMF 1/9/2020

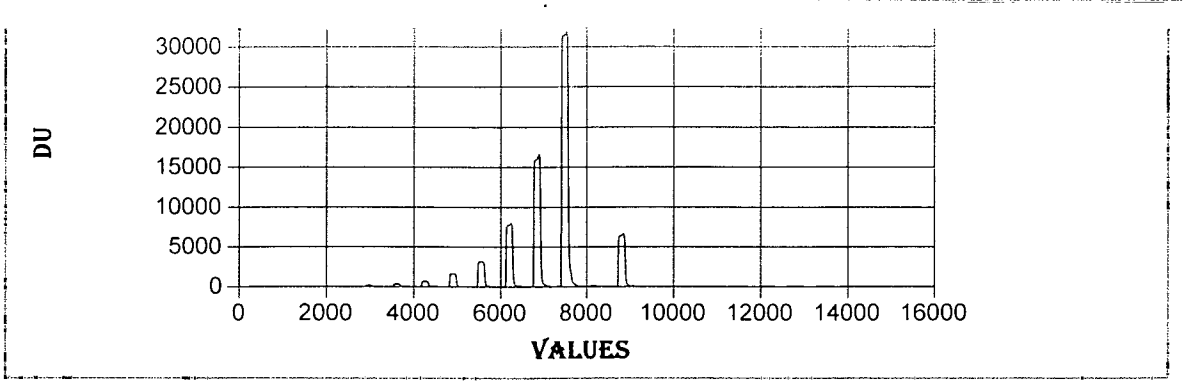
Data Reviewed By: CMF 1/10/20

Comments: SKalor ID SN10020200108A1 cmf 1/9/2020

Method:	TCDirect	Run Start Time:	1/8/2020 6:15:14 PM
Method Type:	TC_DIRECT	Run End Time:	1/8/2020 10:40:22 P
Table:	0A08052	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020200108A1

Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A98	prime	200	32.359	0.006	2505.73	1/8/2020 6:15:28 PM
A1	blank	200	8.545	0.002	0	1/8/2020 6:26:29 PM
A11	blank	200	8.545	0.002	0	1/8/2020 6:37:23 PM
A1	0A08052-CAL1	200	8.545	0.002	0	1/8/2020 6:48:17 PM
A2	0A08052-CAL2	40	1132.086	0.045/0.0002 = 225	22924.35	1/8/2020 6:59:11 PM
A3	0A08052-CAL3	100	1063.227	0.106 = 530	55036.88	1/8/2020 7:09:58 PM
A4	0A08052-CAL4	200	1039.388	0.208 = 1040	108464.545	1/8/2020 7:20:45 PM
A5	0A08052-CAL5	50	10075.077	0.504 = 2520	264124.015	1/8/2020 7:31:32 PM
A6	0A08052-CAL6	100	9827.481	0.983 = 4915	516121.2	1/8/2020 7:42:18 PM
A7	0A08052-CAL7	250	9761.05	2.44 = 12200	1282914.36	1/8/2020 7:53:05 PM
A8	0A08052-CAL8	500	10150.088	5.075 = 25375	2669063.5	1/8/2020 8:03:52 PM
A9	0A08052-CAL9	1000	9978.708	9.979 = 49895	5248863.92	1/8/2020 8:14:39 PM
A97	0A08052-IBL1	200	175.463	0.035	17562.96	1/8/2020 8:25:25 PM
A10	0A08052-ICV1	200	10013.587✓	2.003✓	1052723.4	1/8/2020 8:36:26 PM
A11	0A08052-ICB1	200	64.139✓	0.013✓	5849.56	1/8/2020 8:47:20 PM
A2	clean2	200	8.545	0.002	0	1/8/2020 8:58:06 PM
A3	clean3	200	8.545	0.002	0	1/8/2020 9:09:00 PM
A4	clean4	200	8.545	0.002	0	1/8/2020 9:19:46 PM
A5	clean5	200	8.545	0.002	0	1/8/2020 9:30:33 PM
A6	clean6	200	8.545	0.002	0	1/8/2020 9:41:20 PM
A7	clean7	200	8.545	0.002	0	1/8/2020 9:52:06 PM
A8	clean8	200	8.545	0.002	0	1/8/2020 10:02:53 PM
A9	clean9	200	49.259	0.01	4283.87	1/8/2020 10:13:40 PM
A10	clean10	200	8.545	0.002	0	1/8/2020 10:24:26 PM

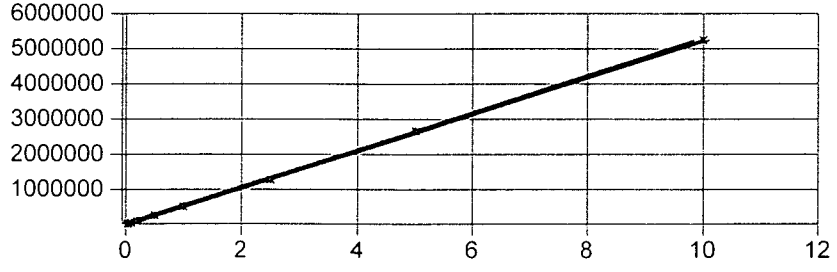




SNACCESS

METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO FIRST ORDER GROUP : 1

A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-SQUARED = 0.99988235075750



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Total Solids by SM2540G
Benchsheet Data

Batch 0020057 (A0A1011-01,02,03,04,05,06)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

Percent Solids + Dry Weight Worksheet

BATCH #: 0020057 (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
A0A1011-01	Dry Weight		02/03/20 16:32		1.28	26.99	15.77	56.4	Use Results from TS.. Make NR once completed.
A0A1011-01	Solids, Total (SM 254		02/03/20 16:32		1.28	26.99	15.77	56.4	Use Results for Dry Weight (Not for Waters)
0020057-DUP1	QC	A0A1011-01	02/03/20 16:32		1.28	27.27	16	56.6	
A0A1011-02	Dry Weight		02/03/20 16:32		1.27	28.065	16.45	56.7	Use Results from TS.. Make NR once completed.
A0A1011-02	Solids, Total (SM 254		02/03/20 16:32		1.27	28.065	16.45	56.7	Use Results for Dry Weight (Not for Waters)
A0A1011-03	Dry Weight		02/03/20 16:32		1.265	27.085	16.81	60.2	Use Results from TS.. Make NR once completed.
A0A1011-03	Solids, Total (SM 254		02/03/20 16:32		1.265	27.085	16.81	60.2	Use Results for Dry Weight (Not for Waters)
A0A1011-04	Dry Weight		02/03/20 16:32		1.26	26.505	17.08	62.7	Use Results from TS.. Make NR once completed.
A0A1011-04	Solids, Total (SM 254		02/03/20 16:32		1.26	26.505	17.08	62.7	Use Results for Dry Weight (Not for Waters)
A0A1011-05	Dry Weight		02/03/20 16:32		1.27	27.8	22.5	80.0	Use Results from TS.. Make NR once completed.
A0A1011-05	Solids, Total (SM 254		02/03/20 16:32		1.27	27.8	22.5	80.0	Use Results for Dry Weight (Not for Waters)
A0A1011-06	Dry Weight		02/03/20 16:32		1.265	29.14	23.79	80.8	Use Results from TS.. Make NR once completed.
A0A1011-06	Solids, Total (SM 254		02/03/20 16:32		1.265	29.14	23.79	80.8	Use Results for Dry Weight (Not for Waters)

NRP 2/12/20
Prepared By: Date

James S Johnson 02/13/20
Reviewed By: Date

Batch #: 0020057

Analyst: nrp

Total Solids Worksheet

Method: SM 2540 G

Date: 2/3/2020

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g)			Comments
				1st weighing	2nd Weighing	3rd Weighing	
A0A1011-01	1.280	1011-01	26.990	15.770	15.780		
0020057-DUP1	1.280	1011-01Dup	27.270	16.000	16.020		source: A0A1011-01
A0A1011-02	1.270	1011-02	28.065	16.450	16.455		
A0A1011-03	1.265	1011-03	27.085	16.810	16.820		
A0A1011-04	1.260	1011-04	26.505	17.080	17.095		
A0A1011-05	1.270	1011-05	27.800	22.500	22.510		
A0A1011-06	1.265	1011-06	29.140	23.790	23.800		
Date/time first in oven: 2/10/20@10:38		**Oven temp. (°C; in/out):**		**101.2/104.2**	**102.1/103.1**	/	
		Time of weighing:		2/11@12:22	2/12@10:23		

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Balance Checksheets

Extractions January 2020
Extractions February 2020
Wet Chem February 2020

Balance Challenge Log

Extractions
AND FX-2000
ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/<1g	± 0.02g	
	>1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Alternate Weight/ID used:

Date Range:

Month: January
Year: 2020

	Day/Time	Initials	Weight One	Observed	Weight Two	Observed
1	0715	AJJ		0.51		300.01
2	0725	AJJ		0.49		299.99
3						
4						
5						
6	07:35	JAG		.50		299.99
7	0645	JAG		.50		300.00
8	10:20	JAG		.50		300.00
9	10:45	CAH		0.49		300.01
10	10:50	CAH		0.49		300.01
11						
12						
13	09:25	JAG		.48		300.00
14	10:35	CAH		0.51		300.02
15	10:55	CAH		0.49		300.00
16	11:25	CAH	0.50g	0.50	300.00g	300.01
17	0715	AJJ		0.49		300.00
18						
19						
20	0717	AJJ		0.49		299.95
21	07:25	JAG		.49		299.96
22	0729	AJJ		0.49		299.96
23	08:00	JAG		.49		299.98
24	07:15	JAG		.49		299.99
25	~~0735~~ AJJ 11/2					
26						
27						
28	0735	AJJ		0.51	11/2 AJJ	299.99
29	08:20	JAG		.49		299.97
30	07:25	CAH		0.50		300.00
31	0711	AJJ		0.50		300.01

Balance Challenge Log

Extractions
AND FX-2000
ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/<1g	± 0.02g	
	>1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Alternate Weight/ID used:

Date Range:

Month: February
Year: 2020

Day/Time	Initials	Weight One	Observed	Weight Two	Observed
1					
2					
3 0722	AJJ		0.50		299.97
4 0723	AJJ		0.49		299.99
5 0739	CAH		0.50		299.98
6 0725	CAH		0.49		299.99
7 0731	CAH		0.50		299.98
8					
9					
10 07:20	JAG		.51		298.99
11 07:15	CAH		.50		299.99
12 07:25	JAG		.51		299.99
13 11:35	asa		.50		299.98
14 07:23	JAG		.51		300.00
15					
16		0.50g		300.00g	
17 7:17	CAH		0.50		299.99
18 1040	AJJ		0.50		299.99
19 09:25	JAG		.50		299.99
20 0831	AJJ		0.50		299.97
21 0914	AJJ		0.49		299.97
22					
23					
24 07:05	JAG		.50		299.98
25 07:40	JAG		.49		299.97
26 07:15	JAG		.50		299.98
27 07:30	CAH		0.51		299.99
28 07:20	JAG		.51		299.99
29					
30					
31					

Balance Challenge Log

Wet Chem Balance 1
Ohaus Adventurer Pro
ID# 8C30461093

Weight ID	weight (g)	acceptance range (g)	
	<0.5000g	± 0.5mg	
	>/=0.5000g	± 0.1%	
1000015949	0.005g	0.0045	0.0055
66067	0.100g	0.0995	0.1005
66067	100g	99.9000	100.1000

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: February
Year: 2020

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2				MAS 4-20			
3 10:10	MAS		99.9999	0.0998	~~0.9998~~		0.0050
4 10:40	MAS		99.9997		0.0999		0.0050
5 10:25	MAS		99.9997		0.0998		0.0050
6 10:15	MAS		99.9999		0.0999		0.0050
7 13:13	MAS		100.0002		0.1000		0.0048
8							
9							
10 1147	MAS		99.9998		0.1000		0.0050
11 1339	MAS		99.9997		0.0997		0.0051
12 1136	MAS		99.9993		0.0999		0.0051
13							
14 1036	MAS		99.9996		0.1002		0.0050
15							
16		100.0000g		0.1000g		.0050g	
17 1016	MAS		99.9993		0.1000		0.0051
18 956	AMB		99.9990		0.0999		0.0049
19 807	AMB		99.9989		0.1001		0.0051
20 1150	MAS		99.9985		0.0998		0.0053
21 1113	MAS		99.9982		0.0998		0.0049
22							
23							
24 1040	MAS		99.9981		0.0999		0.0050
25 1040	MAS		99.9981		0.1000		0.0050
26 1032	MAS		99.9981		0.1000		0.0050
27 1050	MAS		99.9982		0.1000		0.0047
28 1230	MAS		99.9985		0.0999		0.0048
29							
30							
31							