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 – 4d. Elutriate Testing

Apex Laboratories Work Order #:

A0E0669

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

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APEX LABORATORIES, LLC
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Analytical Case Narrative

APEX LABORATORIES, LLC
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Analytical Case Narrative

Client: Anchor QEA, LLC Date: 07/23/2020
Project: Gasco PreRD_DG 2019 – 4d. Elutriate Testing
Apex Work Order Number: A0E0669

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
ORELAP ID: **OR100062**

Friday, July 10, 2020

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

RE: A0E0669 - Gasco PreRD_DG 2019 - 4d. Elutriate Testing - [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 A0E0669, which was received by the laboratory on 5/22/2020 at 12:20:00PM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 2.8 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

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-026SW-A-200521-01	**A0E0669-01**	**WS**	**05/21/20 13:30**	**05/22/20 12:20**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01)				**Matrix: WS**		**Batch: 0050888**		
Ethylbenzene	ND	0.000250	0.000500	mg/L	1	05/26/20 18:02	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*113 %*	*Limits: 80-120 %*	*1*	*05/26/20 18:02*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*05/26/20 18:02*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*05/26/20 18:02*	*EPA 8260C*	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01)				**Matrix: WS**		**Batch: 0060161**		**C-07**
Aroclor 1016	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Aroclor 1221	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Aroclor 1232	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Aroclor 1242	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Aroclor 1248	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Aroclor 1254	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Aroclor 1260	ND	0.00000962	0.0000192	mg/L	1	06/09/20 13:03	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 79 %*		*Limits: 40-135 %*	*1*	*06/09/20 13:03*	*EPA 8082A*	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01)				**Matrix: WS**		**Batch: 0050955**		
Aldrin	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
cis-Chlordane	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
trans-Chlordane	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
4,4'-DDD	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
4,4'-DDE	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
4,4'-DDT	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
cis-Nonachlor	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
trans-Nonachlor	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
2,4'-DDD	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
2,4'-DDE	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
2,4'-DDT	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
Oxychlordane	ND	0.00000485	0.00000971	mg/L	1	06/03/20 02:35	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 55 %*	*Limits: 25-140 %*	*1*	*06/03/20 02:35*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*81 %*	*30-135 %*	*1*	*06/03/20 02:35*	*EPA 8081B*	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01RE3)				**Matrix: WS**		**Batch: 0051024**		
Benz(a)anthracene	ND	0.00000962	0.0000192	mg/L	1	05/29/20 11:36	EPA 8270D	
Benzo(a)pyrene	ND	0.0000144	0.0000288	mg/L	1	05/29/20 11:36	EPA 8270D	
Benzo(b)fluoranthene	ND	0.0000144	0.0000288	mg/L	1	05/29/20 11:36	EPA 8270D	
Benzo(k)fluoranthene	ND	0.0000144	0.0000288	mg/L	1	05/29/20 11:36	EPA 8270D	
Chrysene	ND	0.00000962	0.0000192	mg/L	1	05/29/20 11:36	EPA 8270D	
Dibenz(a,h)anthracene	ND	0.00000962	0.0000192	mg/L	1	05/29/20 11:36	EPA 8270D	
Indeno(1,2,3-cd)pyrene	ND	0.00000962	0.0000192	mg/L	1	05/29/20 11:36	EPA 8270D	
Naphthalene	ND	0.0000192	0.0000385	mg/L	1	05/29/20 11:36	EPA 8270D	
Pentachlorophenol (PCP)	ND	0.0000962	0.000192	mg/L	1	05/29/20 11:36	EPA 8270D	
Bis(2-ethylhexyl)phthalate	ND	0.000192	0.000385	mg/L	1	05/29/20 11:36	EPA 8270D	
Hexachlorobenzene	ND	0.00000962	0.0000192	mg/L	1	05/29/20 11:36	EPA 8270D	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*52 %*	*Limits:* *44-120 %*	*1*	*05/29/20 11:36*	*EPA 8270D*	
2-Fluorobiphenyl (Surr)			*53 %*	*44-120 %*	*1*	*05/29/20 11:36*	*EPA 8270D*	
Phenol-d6 (Surr)			*16 %*	*10-133 %*	*1*	*05/29/20 11:36*	*EPA 8270D*	
p-Terphenyl-d14 (Surr)			*72 %*	*50-134 %*	*1*	*05/29/20 11:36*	*EPA 8270D*	
2-Fluorophenol (Surr)			*23 %*	*19-120 %*	*1*	*05/29/20 11:36*	*EPA 8270D*	
2,4,6-Tribromophenol (Surr)			*70 %*	*43-140 %*	*1*	*05/29/20 11:36*	*EPA 8270D*	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020A (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01)				**Matrix: WS**				
Batch: 0060121								
Arsenic	ND	0.000500	0.00100	mg/L	1	06/03/20 15:01	EPA 6020A	
Chromium	ND	0.000500	0.00100	mg/L	1	06/03/20 15:01	EPA 6020A	
Copper	ND	0.00100	0.00200	mg/L	1	06/03/20 15:01	EPA 6020A	
Zinc	ND	0.00200	0.00400	mg/L	1	06/03/20 15:01	EPA 6020A	

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01)				**Matrix: WS**				
Batch: 0050901								
Total Suspended Solids	**8.00**	5.00	5.00	mg/L	1	05/27/20 13:03	SM 2540 D	**Q-42**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-026SW-A-200521-01 (A0E0669-01)				**Matrix: WS**				
Batch: 0050837								
pH	**7.59**	---		pH Units	1	05/23/20 16:30	SM 4500-H+ B	**H-12**
pH Temperature (deg C)	**19.6**	---		pH Units	1	05/23/20 16:30	SM 4500-H+ B	**H-12**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050888 - EPA 5030B												**Water**
Blank (0050888-BLK1)				Prepared: 05/26/20 08:00		Analyzed: 05/26/20 10:21						
EPA 8260C												
Benzene	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	
Toluene	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.000250	0.000500	mg/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.000750	0.00150	mg/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 112 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*103 %*		*80-120 %*			*"*				
LCS (0050888-BS1)				Prepared: 05/26/20 08:00		Analyzed: 05/26/20 09:26						
EPA 8260C												
Benzene	0.0214	0.000100	0.000200	mg/L	1	0.0200	---	107	80-120%	---	---	
Toluene	0.0199	0.000500	0.00100	mg/L	1	0.0200	---	100	80-120%	---	---	
Ethylbenzene	0.0210	0.000250	0.000500	mg/L	1	0.0200	---	105	80-120%	---	---	
Xylenes, total	0.0594	0.000750	0.00150	mg/L	1	0.0600	---	99	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 101 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*97 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*94 %*		*80-120 %*			*"*				
Duplicate (0050888-DUP1)				Prepared: 05/26/20 10:16		Analyzed: 05/26/20 13:58						
QC Source Sample: Non-SDG (A0E0659-04)												
Benzene	ND	0.000100	0.000200	mg/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.000500	0.00100	mg/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.000250	0.000500	mg/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	0.000750	0.00150	mg/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 114 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*101 %*		*80-120 %*			*"*				
Matrix Spike (0050888-MS1)				Prepared: 05/26/20 10:16		Analyzed: 05/26/20 17:08						
QC Source Sample: Non-SDG (A0E0660-06)												
EPA 8260C												
Benzene	0.0224	0.000100	0.000200	mg/L	1	0.0200	ND	112	79-120%	---	---	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050888 - EPA 5030B							**Water**					
Matrix Spike (0050888-MS1)			Prepared: 05/26/20 10:16		Analyzed: 05/26/20 17:08							
QC Source Sample: Non-SDG (A0E0660-06)												
Toluene	0.0203	0.000500	0.00100	mg/L	1	0.0200	ND	101	80-121%	---	---	
Ethylbenzene	0.0218	0.000250	0.000500	mg/L	1	0.0200	ND	109	79-121%	---	---	
Xylenes, total	0.0611	0.000750	0.00150	mg/L	1	0.0600	ND	102	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 102 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*95 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*94 %*		*80-120 %*			*"*				

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0060161 - EPA 3510C (Neutral pH)							**Water**					
Blank (0060161-BLK1)			Prepared: 06/04/20 07:32		Analyzed: 06/09/20 12:10							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 66 %*		*Limits: 40-135 %*			*Dilution: 1x*				
LCS (0060161-BS1)			Prepared: 06/04/20 07:32		Analyzed: 06/09/20 12:27							**C-07**
EPA 8082A												
Aroclor 1016	0.000722	0.0000100	0.0000200	mg/L	1	0.00125	---	58	46-129%	---	---	
Aroclor 1260	0.000969	0.0000100	0.0000200	mg/L	1	0.00125	---	77	45-134%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 66 %*		*Limits: 40-135 %*			*Dilution: 1x*				
LCS Dup (0060161-BSD1)			Prepared: 06/04/20 07:32		Analyzed: 06/09/20 12:45							**C-07, Q-19**
EPA 8082A												
Aroclor 1016	0.000687	0.0000100	0.0000200	mg/L	1	0.00125	---	55	46-129%	5	30%	
Aroclor 1260	0.000938	0.0000100	0.0000200	mg/L	1	0.00125	---	75	45-134%	3	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 65 %*		*Limits: 40-135 %*			*Dilution: 1x*				

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

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 0050955 - EPA 3510C (Neutral pH)							**Water**					
Blank (0050955-BLK1)			Prepared: 05/28/20 07:17		Analyzed: 06/03/20 00:18							
EPA 8081B												
Aldrin	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
cis-Chlordane	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
trans-Chlordane	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
cis-Nonachlor	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
trans-Nonachlor	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
2,4'-DDD	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
Oxychlordane	ND	0.00000455	0.00000909	mg/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 67 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*73 %*		*30-135 %*				*"*			
LCS (0050955-BS1)			Prepared: 05/28/20 07:17		Analyzed: 06/03/20 00:35							
EPA 8081B												
Aldrin	0.000258	0.00000500	0.0000100	mg/L	1	0.000500	---	52	45-134%	---	---	
cis-Chlordane	0.000469	0.00000500	0.0000100	mg/L	1	0.000500	---	94	60-129%	---	---	
trans-Chlordane	0.000467	0.00000500	0.0000100	mg/L	1	0.000500	---	93	56-136%	---	---	
4,4'-DDD	0.000485	0.00000500	0.0000100	mg/L	1	0.000500	---	97	56-143%	---	---	
4,4'-DDE	0.000459	0.00000500	0.0000100	mg/L	1	0.000500	---	92	57-135%	---	---	
4,4'-DDT	0.000575	0.00000500	0.0000100	mg/L	1	0.000500	---	115	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*81 %*		*30-135 %*				*"*			
LCS (0050955-BS2)			Prepared: 05/28/20 07:17		Analyzed: 06/03/20 02:01							
EPA 8081B												
cis-Nonachlor	0.000510	0.00000500	0.0000100	mg/L	1	0.000500	---	102	75-125%	---	---	
trans-Nonachlor	0.000488	0.00000500	0.0000100	mg/L	1	0.000500	---	98	67-127%	---	---	
2,4'-DDD	0.000498	0.00000500	0.0000100	mg/L	1	0.000500	---	100	67-142%	---	---	
2,4'-DDE	0.000460	0.00000500	0.0000100	mg/L	1	0.000500	---	92	63-135%	---	---	
2,4'-DDT	0.000565	0.00000500	0.0000100	mg/L	1	0.000500	---	113	76-156%	---	---	

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

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

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 0050955 - EPA 3510C (Neutral pH)							**Water**					
LCS (0050955-BS2)			Prepared: 05/28/20 07:17		Analyzed: 06/03/20 02:01							
Oxychlordane	0.000468	0.00000500	0.0000100	mg/L	1	0.000500	---	94	62-125%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*79 %*		*30-135 %*			*"*				
LCS Dup (0050955-BSD1)			Prepared: 05/28/20 07:17		Analyzed: 06/03/20 00:52							**Q-19**
EPA 8081B												
Aldrin	0.000276	0.00000500	0.0000100	mg/L	1	0.000500	---	55	45-134%	7	30%	
cis-Chlordane	0.000439	0.00000500	0.0000100	mg/L	1	0.000500	---	88	60-129%	7	30%	
trans-Chlordane	0.000454	0.00000500	0.0000100	mg/L	1	0.000500	---	91	56-136%	3	30%	
4,4'-DDD	0.000464	0.00000500	0.0000100	mg/L	1	0.000500	---	93	56-143%	4	30%	
4,4'-DDE	0.000433	0.00000500	0.0000100	mg/L	1	0.000500	---	87	57-135%	6	30%	
4,4'-DDT	0.000542	0.00000500	0.0000100	mg/L	1	0.000500	---	108	51-143%	6	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 69 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*74 %*		*30-135 %*			*"*				
LCS Dup (0050955-BSD2)			Prepared: 05/28/20 07:17		Analyzed: 06/03/20 02:18							**Q-19**
EPA 8081B												
cis-Nonachlor	0.000526	0.00000500	0.0000100	mg/L	1	0.000500	---	105	75-125%	3	30%	
trans-Nonachlor	0.000492	0.00000500	0.0000100	mg/L	1	0.000500	---	98	67-127%	0.9	30%	
2,4'-DDD	0.000489	0.00000500	0.0000100	mg/L	1	0.000500	---	98	67-142%	2	30%	
2,4'-DDE	0.000471	0.00000500	0.0000100	mg/L	1	0.000500	---	94	63-135%	2	30%	
2,4'-DDT	0.000558	0.00000500	0.0000100	mg/L	1	0.000500	---	112	76-156%	1	30%	
Oxychlordane	0.000477	0.00000500	0.0000100	mg/L	1	0.000500	---	95	62-125%	2	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*70 %*		*30-135 %*			*"*				

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (0050952-BLK1)			Prepared: 05/27/20 11:28		Analyzed: 05/27/20 18:15							
EPA 8270D												
Acenaphthene	**0.0000180**	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	B-02, J
Acenaphthylene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	**0.0000239**	0.0000182	0.0000364	mg/L	1	---	---	---	---	---	---	B-02, J
2-Methylnaphthalene	**0.0000383**	0.0000182	0.0000364	mg/L	1	---	---	---	---	---	---	B
Naphthalene	**0.000424**	0.0000182	0.0000364	mg/L	1	---	---	---	---	---	---	B
Phenanthrene	**0.0000105**	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	B-02, J
Pyrene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Phenol	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (0050952-BLK1)			Prepared: 05/27/20 11:28		Analyzed: 05/27/20 18:15							
2,3,5,6-Tetrachlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Aniline	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (0050952-BLK1)			Prepared: 05/27/20 11:28 Analyzed: 05/27/20 18:15									
Benzoic acid	ND	0.00114	0.00227	mg/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.000455	0.000909	mg/L	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
Pyridine	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 62 %*		*Limits: 44-120 %*			*Dilution: 1x*				
2-Fluorobiphenyl (Surr)			*61 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*20 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*76 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*31 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*74 %*		*43-140 %*			*"*				
LCS (0050952-BS1)			Prepared: 05/27/20 11:28 Analyzed: 05/27/20 18:52									
EPA 8270D												
Acenaphthene	0.00263	0.0000200	0.0000400	mg/L	2	0.00400	---	66	47-122%	---	---	B-02
Acenaphthylene	0.00267	0.0000200	0.0000400	mg/L	2	0.00400	---	67	41-130%	---	---	
Anthracene	0.00286	0.0000200	0.0000400	mg/L	2	0.00400	---	72	57-123%	---	---	
Benz(a)anthracene	0.00285	0.0000200	0.0000400	mg/L	2	0.00400	---	71	58-125%	---	---	
Benzo(a)pyrene	0.00313	0.0000300	0.0000600	mg/L	2	0.00400	---	78	54-128%	---	---	
Benzo(b)fluoranthene	0.00304	0.0000300	0.0000600	mg/L	2	0.00400	---	76	53-131%	---	---	
Benzo(k)fluoranthene	0.00301	0.0000300	0.0000600	mg/L	2	0.00400	---	75	57-129%	---	---	
Benzo(g,h,i)perylene	0.00302	0.0000200	0.0000400	mg/L	2	0.00400	---	76	50-134%	---	---	
Chrysene	0.00287	0.0000200	0.0000400	mg/L	2	0.00400	---	72	59-123%	---	---	
Dibenz(a,h)anthracene	0.00293	0.0000200	0.0000400	mg/L	2	0.00400	---	73	51-134%	---	---	
Fluoranthene	0.00296	0.0000200	0.0000400	mg/L	2	0.00400	---	74	57-128%	---	---	
Fluorene	0.00288	0.0000200	0.0000400	mg/L	2	0.00400	---	72	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	0.00284	0.0000200	0.0000400	mg/L	2	0.00400	---	71	52-134%	---	---	
1-Methylnaphthalene	0.00228	0.0000400	0.0000800	mg/L	2	0.00400	---	57	41-120%	---	---	B-02
2-Methylnaphthalene	0.00223	0.0000400	0.0000800	mg/L	2	0.00400	---	56	40-121%	---	---	B

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (0050952-BS1)			Prepared: 05/27/20 11:28 Analyzed: 05/27/20 18:52									
Naphthalene	0.00270	0.0000400	0.0000800	mg/L	2	0.00400	---	67	40-121%	---	---	B
Phenanthrene	0.00275	0.0000200	0.0000400	mg/L	2	0.00400	---	69	59-120%	---	---	B-02
Pyrene	0.00295	0.0000200	0.0000400	mg/L	2	0.00400	---	74	57-126%	---	---	
Carbazole	0.00339	0.0000300	0.0000600	mg/L	2	0.00400	---	85	60-122%	---	---	
Dibenzofuran	0.00274	0.0000200	0.0000400	mg/L	2	0.00400	---	68	53-120%	---	---	
4-Chloro-3-methylphenol	0.00271	0.000200	0.000400	mg/L	2	0.00400	---	68	52-120%	---	---	
2-Chlorophenol	0.00251	0.000100	0.000200	mg/L	2	0.00400	---	63	38-120%	---	---	
2,4-Dichlorophenol	0.00274	0.000100	0.000200	mg/L	2	0.00400	---	69	47-121%	---	---	
2,4-Dimethylphenol	0.00204	0.000100	0.000200	mg/L	2	0.00400	---	51	31-124%	---	---	
2,4-Dinitrophenol	0.00416	0.000500	0.00100	mg/L	2	0.00400	---	104	23-143%	---	---	
4,6-Dinitro-2-methylphenol	0.00355	0.000500	0.00100	mg/L	2	0.00400	---	89	44-137%	---	---	
2-Methylphenol	0.00215	0.0000500	0.000100	mg/L	2	0.00400	---	54	30-120%	---	---	
3+4-Methylphenol(s)	0.00191	0.0000500	0.000100	mg/L	2	0.00400	---	48	29-120%	---	---	
2-Nitrophenol	0.00307	0.000200	0.000400	mg/L	2	0.00400	---	77	47-123%	---	---	
4-Nitrophenol	0.00116	0.000200	0.000400	mg/L	2	0.00400	---	29	10-120%	---	---	Q-31
Pentachlorophenol (PCP)	0.00321	0.000200	0.000400	mg/L	2	0.00400	---	80	35-138%	---	---	
Phenol	0.00121	0.000400	0.000800	mg/L	2	0.00400	---	30	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	0.00302	0.000100	0.000200	mg/L	2	0.00400	---	76	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	0.00314	0.000100	0.000200	mg/L	2	0.00400	---	79	50-121%	---	---	
2,4,5-Trichlorophenol	0.00303	0.000100	0.000200	mg/L	2	0.00400	---	76	53-123%	---	---	
2,4,6-Trichlorophenol	0.00289	0.000100	0.000200	mg/L	2	0.00400	---	72	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	0.00310	0.000400	0.000800	mg/L	2	0.00400	---	78	55-135%	---	---	
Butyl benzyl phthalate	0.00316	0.000400	0.000800	mg/L	2	0.00400	---	79	53-134%	---	---	
Diethylphthalate	0.00285	0.000400	0.000800	mg/L	2	0.00400	---	71	56-125%	---	---	
Dimethylphthalate	0.00286	0.000400	0.000800	mg/L	2	0.00400	---	71	45-127%	---	---	
Di-n-butylphthalate	0.00305	0.000400	0.000800	mg/L	2	0.00400	---	76	59-127%	---	---	
Di-n-octyl phthalate	0.00336	0.000400	0.000800	mg/L	2	0.00400	---	84	51-140%	---	---	Q-31
N-Nitrosodimethylamine	0.00159	0.0000500	0.000100	mg/L	2	0.00400	---	40	10-120%	---	---	
N-Nitroso-di-n-propylamine	0.00252	0.0000500	0.000100	mg/L	2	0.00400	---	63	49-120%	---	---	
N-Nitrosodiphenylamine	0.00300	0.0000500	0.000100	mg/L	2	0.00400	---	75	51-123%	---	---	
Bis(2-Chloroethoxy) methane	0.00257	0.0000500	0.000100	mg/L	2	0.00400	---	64	48-120%	---	---	
Bis(2-Chloroethyl) ether	0.00236	0.0000500	0.000100	mg/L	2	0.00400	---	59	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	0.00237	0.0000500	0.000100	mg/L	2	0.00400	---	59	37-130%	---	---	
Hexachlorobenzene	0.00263	0.0000200	0.0000400	mg/L	2	0.00400	---	66	53-125%	---	---	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (0050952-BS1)			Prepared: 05/27/20 11:28 Analyzed: 05/27/20 18:52									
Hexachlorobutadiene	0.00201	0.0000500	0.000100	mg/L	2	0.00400	---	50	22-124%	---	---	
Hexachlorocyclopentadiene	0.00247	0.000100	0.000200	mg/L	2	0.00400	---	62	10-127%	---	---	
Hexachloroethane	0.00205	0.0000500	0.000100	mg/L	2	0.00400	---	51	21-120%	---	---	
2-Chloronaphthalene	0.00239	0.0000200	0.0000400	mg/L	2	0.00400	---	60	40-120%	---	---	
1,2-Dichlorobenzene	0.00203	0.0000500	0.000100	mg/L	2	0.00400	---	51	32-120%	---	---	
1,3-Dichlorobenzene	0.00189	0.0000500	0.000100	mg/L	2	0.00400	---	47	28-120%	---	---	
1,4-Dichlorobenzene	0.00200	0.0000500	0.000100	mg/L	2	0.00400	---	50	29-120%	---	---	
1,2,4-Trichlorobenzene	0.00213	0.0000500	0.000100	mg/L	2	0.00400	---	53	29-120%	---	---	
4-Bromophenyl phenyl ether	0.00275	0.0000500	0.000100	mg/L	2	0.00400	---	69	55-124%	---	---	
4-Chlorophenyl phenyl ether	0.00273	0.0000500	0.000100	mg/L	2	0.00400	---	68	53-121%	---	---	
Aniline	0.00235	0.000100	0.000200	mg/L	2	0.00400	---	59	10-120%	---	---	
4-Chloroaniline	0.00271	0.0000500	0.000100	mg/L	2	0.00400	---	68	33-120%	---	---	
2-Nitroaniline	0.00326	0.000400	0.000800	mg/L	2	0.00400	---	82	55-127%	---	---	
3-Nitroaniline	0.00322	0.000400	0.000800	mg/L	2	0.00400	---	81	41-128%	---	---	
4-Nitroaniline	0.00395	0.000400	0.000800	mg/L	2	0.00400	---	99	54-128%	---	---	Q-41
Nitrobenzene	0.00247	0.000200	0.000400	mg/L	2	0.00400	---	62	45-121%	---	---	
2,4-Dinitrotoluene	0.00298	0.000200	0.000400	mg/L	2	0.00400	---	74	57-128%	---	---	
2,6-Dinitrotoluene	0.00301	0.000200	0.000400	mg/L	2	0.00400	---	75	57-124%	---	---	
Benzoic acid	0.00423	0.00250	0.00250	mg/L	2	0.00800	---	53	10-120%	---	---	
Benzyl alcohol	0.00221	0.000200	0.000400	mg/L	2	0.00400	---	55	31-120%	---	---	
Isophorone	0.00282	0.0000500	0.000100	mg/L	2	0.00400	---	70	42-124%	---	---	
Azobenzene (1,2-DPH)	0.00295	0.0000500	0.000100	mg/L	2	0.00400	---	74	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	0.00390	0.000500	0.00100	mg/L	2	0.00400	---	97	57-136%	---	---	Q-31
3,3'-Dichlorobenzidine	0.0153	0.00100	0.00200	mg/L	2	0.00800	---	**191**	**27-129%**	---	---	Q-29, Q-41
1,2-Dinitrobenzene	0.00299	0.000500	0.00100	mg/L	2	0.00400	---	75	59-120%	---	---	
1,3-Dinitrobenzene	0.00318	0.000500	0.00100	mg/L	2	0.00400	---	80	49-128%	---	---	
1,4-Dinitrobenzene	0.00314	0.000500	0.00100	mg/L	2	0.00400	---	78	72-130%	---	---	
Pyridine	0.00135	0.000200	0.000400	mg/L	2	0.00400	---	34	10-120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 64 %*	*Limits: 44-120 %*	*Dilution: 2x*	
2-Fluorobiphenyl (Surr)	*62 %*	*44-120 %*	*"*	
Phenol-d6 (Surr)	*25 %*	*10-133 %*	*"*	
p-Terphenyl-d14 (Surr)	*74 %*	*50-134 %*	*"*	
2-Fluorophenol (Surr)	*36 %*	*19-120 %*	*"*	
2,4,6-Tribromophenol (Surr)	*77 %*	*43-140 %*	*"*	

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (0050952-BSD1)			Prepared: 05/27/20 11:28		Analyzed: 05/27/20 19:29							**Q-19**
EPA 8270D												
Acenaphthene	0.00285	0.0000200	0.0000400	mg/L	2	0.00400	---	71	47-122%	8	30%	B-02
Acenaphthylene	0.00290	0.0000200	0.0000400	mg/L	2	0.00400	---	73	41-130%	8	30%	
Anthracene	0.00305	0.0000200	0.0000400	mg/L	2	0.00400	---	76	57-123%	6	30%	
Benz(a)anthracene	0.00303	0.0000200	0.0000400	mg/L	2	0.00400	---	76	58-125%	6	30%	
Benzo(a)pyrene	0.00327	0.0000300	0.0000600	mg/L	2	0.00400	---	82	54-128%	4	30%	
Benzo(b)fluoranthene	0.00319	0.0000300	0.0000600	mg/L	2	0.00400	---	80	53-131%	5	30%	
Benzo(k)fluoranthene	0.00318	0.0000300	0.0000600	mg/L	2	0.00400	---	80	57-129%	6	30%	
Benzo(g,h,i)perylene	0.00319	0.0000200	0.0000400	mg/L	2	0.00400	---	80	50-134%	6	30%	
Chrysene	0.00306	0.0000200	0.0000400	mg/L	2	0.00400	---	76	59-123%	6	30%	
Dibenz(a,h)anthracene	0.00314	0.0000200	0.0000400	mg/L	2	0.00400	---	79	51-134%	7	30%	
Fluoranthene	0.00320	0.0000200	0.0000400	mg/L	2	0.00400	---	80	57-128%	8	30%	
Fluorene	0.00308	0.0000200	0.0000400	mg/L	2	0.00400	---	77	52-124%	7	30%	
Indeno(1,2,3-cd)pyrene	0.00291	0.0000200	0.0000400	mg/L	2	0.00400	---	73	52-134%	3	30%	
1-Methylnaphthalene	0.00236	0.0000400	0.0000800	mg/L	2	0.00400	---	59	41-120%	3	30%	B-02
2-Methylnaphthalene	0.00234	0.0000400	0.0000800	mg/L	2	0.00400	---	59	40-121%	5	30%	B
Naphthalene	0.00278	0.0000400	0.0000800	mg/L	2	0.00400	---	70	40-121%	3	30%	B
Phenanthrene	0.00295	0.0000200	0.0000400	mg/L	2	0.00400	---	74	59-120%	7	30%	B-02
Pyrene	0.00324	0.0000200	0.0000400	mg/L	2	0.00400	---	81	57-126%	9	30%	
Carbazole	0.00386	0.0000300	0.0000600	mg/L	2	0.00400	---	97	60-122%	13	30%	
Dibenzofuran	0.00299	0.0000200	0.0000400	mg/L	2	0.00400	---	75	53-120%	9	30%	
4-Chloro-3-methylphenol	0.00263	0.000200	0.000400	mg/L	2	0.00400	---	66	52-120%	3	30%	
2-Chlorophenol	0.00264	0.000100	0.000200	mg/L	2	0.00400	---	66	38-120%	5	30%	
2,4-Dichlorophenol	0.00285	0.000100	0.000200	mg/L	2	0.00400	---	71	47-121%	4	30%	
2,4-Dimethylphenol	0.00216	0.000100	0.000200	mg/L	2	0.00400	---	54	31-124%	6	30%	
2,4-Dinitrophenol	0.00439	0.000500	0.00100	mg/L	2	0.00400	---	110	23-143%	5	30%	
4,6-Dinitro-2-methylphenol	0.00365	0.000500	0.00100	mg/L	2	0.00400	---	91	44-137%	3	30%	
2-Methylphenol	0.00211	0.0000500	0.000100	mg/L	2	0.00400	---	53	30-120%	2	30%	
3+4-Methylphenol(s)	0.00185	0.0000500	0.000100	mg/L	2	0.00400	---	46	29-120%	3	30%	
2-Nitrophenol	0.00328	0.000200	0.000400	mg/L	2	0.00400	---	82	47-123%	7	30%	
4-Nitrophenol	0.00130	0.000200	0.000400	mg/L	2	0.00400	---	33	10-120%	11	30%	Q-31
Pentachlorophenol (PCP)	0.00317	0.000200	0.000400	mg/L	2	0.00400	---	79	35-138%	1	30%	
Phenol	0.00123	0.000400	0.000800	mg/L	2	0.00400	---	31	10-120%	2	30%	
2,3,4,6-Tetrachlorophenol	0.00326	0.000100	0.000200	mg/L	2	0.00400	---	81	50-128%	7	30%	

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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (0050952-BSD1)			Prepared: 05/27/20 11:28		Analyzed: 05/27/20 19:29							**Q-19**
2,3,5,6-Tetrachlorophenol	0.00338	0.000100	0.000200	mg/L	2	0.00400	---	85	50-121%	7	30%	
2,4,5-Trichlorophenol	0.00314	0.000100	0.000200	mg/L	2	0.00400	---	79	53-123%	4	30%	
2,4,6-Trichlorophenol	0.00321	0.000100	0.000200	mg/L	2	0.00400	---	80	50-125%	10	30%	
Bis(2-ethylhexyl)phthalate	0.00329	0.000400	0.000800	mg/L	2	0.00400	---	82	55-135%	6	30%	
Butyl benzyl phthalate	0.00335	0.000400	0.000800	mg/L	2	0.00400	---	84	53-134%	6	30%	
Diethylphthalate	0.00312	0.000400	0.000800	mg/L	2	0.00400	---	78	56-125%	9	30%	
Dimethylphthalate	0.00302	0.000400	0.000800	mg/L	2	0.00400	---	75	45-127%	5	30%	
Di-n-butylphthalate	0.00324	0.000400	0.000800	mg/L	2	0.00400	---	81	59-127%	6	30%	
Di-n-octyl phthalate	0.00347	0.000400	0.000800	mg/L	2	0.00400	---	87	51-140%	3	30%	Q-31
N-Nitrosodimethylamine	0.00178	0.0000500	0.000100	mg/L	2	0.00400	---	45	10-120%	11	30%	
N-Nitroso-di-n-propylamine	0.00252	0.0000500	0.000100	mg/L	2	0.00400	---	63	49-120%	0.05	30%	
N-Nitrosodiphenylamine	0.00320	0.0000500	0.000100	mg/L	2	0.00400	---	80	51-123%	6	30%	
Bis(2-Chloroethoxy) methane	0.00271	0.0000500	0.000100	mg/L	2	0.00400	---	68	48-120%	5	30%	
Bis(2-Chloroethyl) ether	0.00255	0.0000500	0.000100	mg/L	2	0.00400	---	64	43-120%	8	30%	
2,2'-Oxybis(1-Chloropropane)	0.00249	0.0000500	0.000100	mg/L	2	0.00400	---	62	37-130%	5	30%	
Hexachlorobenzene	0.00267	0.0000200	0.0000400	mg/L	2	0.00400	---	67	53-125%	1	30%	
Hexachlorobutadiene	0.00226	0.0000500	0.000100	mg/L	2	0.00400	---	56	22-124%	12	30%	
Hexachlorocyclopentadiene	0.00279	0.000100	0.000200	mg/L	2	0.00400	---	70	10-127%	12	30%	
Hexachloroethane	0.00221	0.0000500	0.000100	mg/L	2	0.00400	---	55	21-120%	7	30%	
2-Chloronaphthalene	0.00267	0.0000200	0.0000400	mg/L	2	0.00400	---	67	40-120%	11	30%	
1,2-Dichlorobenzene	0.00220	0.0000500	0.000100	mg/L	2	0.00400	---	55	32-120%	8	30%	
1,3-Dichlorobenzene	0.00209	0.0000500	0.000100	mg/L	2	0.00400	---	52	28-120%	10	30%	
1,4-Dichlorobenzene	0.00214	0.0000500	0.000100	mg/L	2	0.00400	---	54	29-120%	7	30%	
1,2,4-Trichlorobenzene	0.00239	0.0000500	0.000100	mg/L	2	0.00400	---	60	29-120%	11	30%	
4-Bromophenyl phenyl ether	0.00290	0.0000500	0.000100	mg/L	2	0.00400	---	72	55-124%	5	30%	
4-Chlorophenyl phenyl ether	0.00295	0.0000500	0.000100	mg/L	2	0.00400	---	74	53-121%	8	30%	
Aniline	0.00243	0.000100	0.000200	mg/L	2	0.00400	---	61	10-120%	4	30%	
4-Chloroaniline	0.00282	0.0000500	0.000100	mg/L	2	0.00400	---	70	33-120%	4	30%	
2-Nitroaniline	0.00339	0.000400	0.000800	mg/L	2	0.00400	---	85	55-127%	4	30%	
3-Nitroaniline	0.00405	0.000400	0.000800	mg/L	2	0.00400	---	101	41-128%	23	30%	
4-Nitroaniline	0.00467	0.000400	0.000800	mg/L	2	0.00400	---	117	54-128%	17	30%	Q-41
Nitrobenzene	0.00248	0.000200	0.000400	mg/L	2	0.00400	---	62	45-121%	0.3	30%	
2,4-Dinitrotoluene	0.00330	0.000200	0.000400	mg/L	2	0.00400	---	82	57-128%	10	30%	
2,6-Dinitrotoluene	0.00321	0.000200	0.000400	mg/L	2	0.00400	---	80	57-124%	6	30%	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050952 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (0050952-BSD1)			Prepared: 05/27/20 11:28		Analyzed: 05/27/20 19:29							**Q-19**
Benzoic acid	0.00412	0.00250	0.00250	mg/L	2	0.00800	---	51	10-120%	3	30%	
Benzyl alcohol	0.00220	0.000200	0.000400	mg/L	2	0.00400	---	55	31-120%	0.9	30%	
Isophorone	0.00301	0.0000500	0.000100	mg/L	2	0.00400	---	75	42-124%	7	30%	
Azobenzene (1,2-DPH)	0.00313	0.0000500	0.000100	mg/L	2	0.00400	---	78	61-120%	6	30%	
Bis(2-Ethylhexyl) adipate	0.00319	0.000500	0.00100	mg/L	2	0.00400	---	80	57-136%	20	30%	Q-31
3,3'-Dichlorobenzidine	0.0176	0.00100	0.00200	mg/L	2	0.00800	---	**220**	**27-129%**	14	30%	Q-29, Q-41
1,2-Dinitrobenzene	0.00331	0.000500	0.00100	mg/L	2	0.00400	---	83	59-120%	10	30%	
1,3-Dinitrobenzene	0.00333	0.000500	0.00100	mg/L	2	0.00400	---	83	49-128%	5	30%	
1,4-Dinitrobenzene	0.00336	0.000500	0.00100	mg/L	2	0.00400	---	84	72-130%	7	30%	
Pyridine	0.00157	0.000200	0.000400	mg/L	2	0.00400	---	39	10-120%	16	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 63 %*		*Limits: 44-120 %*			*Dilution: 2x*				
2-Fluorobiphenyl (Surr)			*63 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*25 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*77 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*35 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*77 %*		*43-140 %*			*"*				

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (0051024-BLK1)			Prepared: 05/28/20 14:25 Analyzed: 05/29/20 09:45									
EPA 8270D												
Acenaphthene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0000182	0.0000364	mg/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0000182	0.0000364	mg/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0000182	0.0000364	mg/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Pyrene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0000136	0.0000273	mg/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Phenol	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (0051024-BLK1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 09:45							
2,3,5,6-Tetrachlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.00000909	0.0000182	mg/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Aniline	ND	0.0000455	0.0000909	mg/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.000182	0.000364	mg/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (0051024-BLK1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 09:45							
Benzoic acid	ND	0.00114	0.00227	mg/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	0.0000227	0.0000455	mg/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.000455	0.000909	mg/L	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.000227	0.000455	mg/L	1	---	---	---	---	---	---	
Pyridine	ND	0.0000909	0.000182	mg/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 65 %*		*Limits: 44-120 %*				*Dilution: 1x*			
2-Fluorobiphenyl (Surr)			*59 %*		*44-120 %*				*"*			
Phenol-d6 (Surr)			*21 %*		*10-133 %*				*"*			
p-Terphenyl-d14 (Surr)			*73 %*		*50-134 %*				*"*			
2-Fluorophenol (Surr)			*32 %*		*19-120 %*				*"*			
2,4,6-Tribromophenol (Surr)			*68 %*		*43-140 %*				*"*			
LCS (0051024-BS1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 10:22							
EPA 8270D												
Acenaphthene	0.00271	0.0000200	0.0000400	mg/L	2	0.00400	---	68	47-122%	---	---	
Acenaphthylene	0.00277	0.0000200	0.0000400	mg/L	2	0.00400	---	69	41-130%	---	---	
Anthracene	0.00273	0.0000200	0.0000400	mg/L	2	0.00400	---	68	57-123%	---	---	
Benz(a)anthracene	0.00282	0.0000200	0.0000400	mg/L	2	0.00400	---	70	58-125%	---	---	
Benzo(a)pyrene	0.00288	0.0000300	0.0000600	mg/L	2	0.00400	---	72	54-128%	---	---	
Benzo(b)fluoranthene	0.00292	0.0000300	0.0000600	mg/L	2	0.00400	---	73	53-131%	---	---	
Benzo(k)fluoranthene	0.00293	0.0000300	0.0000600	mg/L	2	0.00400	---	73	57-129%	---	---	
Benzo(g,h,i)perylene	0.00292	0.0000200	0.0000400	mg/L	2	0.00400	---	73	50-134%	---	---	
Chrysene	0.00287	0.0000200	0.0000400	mg/L	2	0.00400	---	72	59-123%	---	---	
Dibenz(a,h)anthracene	0.00287	0.0000200	0.0000400	mg/L	2	0.00400	---	72	51-134%	---	---	
Fluoranthene	0.00284	0.0000200	0.0000400	mg/L	2	0.00400	---	71	57-128%	---	---	
Fluorene	0.00268	0.0000200	0.0000400	mg/L	2	0.00400	---	67	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	0.00271	0.0000200	0.0000400	mg/L	2	0.00400	---	68	52-134%	---	---	
1-Methylnaphthalene	0.00254	0.0000400	0.0000800	mg/L	2	0.00400	---	63	41-120%	---	---	
2-Methylnaphthalene	0.00251	0.0000400	0.0000800	mg/L	2	0.00400	---	63	40-121%	---	---	

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (0051024-BS1)			Prepared: 05/28/20 14:25 Analyzed: 05/29/20 10:22									
Naphthalene	0.00252	0.0000400	0.0000800	mg/L	2	0.00400	---	63	40-121%	---	---	
Phenanthrene	0.00270	0.0000200	0.0000400	mg/L	2	0.00400	---	67	59-120%	---	---	
Pyrene	0.00288	0.0000200	0.0000400	mg/L	2	0.00400	---	72	57-126%	---	---	
Carbazole	0.00331	0.0000300	0.0000600	mg/L	2	0.00400	---	83	60-122%	---	---	
Dibenzofuran	0.00262	0.0000200	0.0000400	mg/L	2	0.00400	---	65	53-120%	---	---	
4-Chloro-3-methylphenol	0.00253	0.000200	0.000400	mg/L	2	0.00400	---	63	52-120%	---	---	
2-Chlorophenol	0.00246	0.000100	0.000200	mg/L	2	0.00400	---	62	38-120%	---	---	
2,4-Dichlorophenol	0.00272	0.000100	0.000200	mg/L	2	0.00400	---	68	47-121%	---	---	
2,4-Dimethylphenol	0.00186	0.000100	0.000200	mg/L	2	0.00400	---	47	31-124%	---	---	
2,4-Dinitrophenol	0.00347	0.000500	0.00100	mg/L	2	0.00400	---	87	23-143%	---	---	
4,6-Dinitro-2-methylphenol	0.00283	0.000500	0.00100	mg/L	2	0.00400	---	71	44-137%	---	---	
2-Methylphenol	0.00221	0.0000500	0.000100	mg/L	2	0.00400	---	55	30-120%	---	---	
3+4-Methylphenol(s)	0.00198	0.0000500	0.000100	mg/L	2	0.00400	---	49	29-120%	---	---	
2-Nitrophenol	0.00279	0.000200	0.000400	mg/L	2	0.00400	---	70	47-123%	---	---	
4-Nitrophenol	0.000903	0.000200	0.000400	mg/L	2	0.00400	---	23	10-120%	---	---	
Pentachlorophenol (PCP)	0.00281	0.000200	0.000400	mg/L	2	0.00400	---	70	35-138%	---	---	
Phenol	0.00123	0.000400	0.000800	mg/L	2	0.00400	---	31	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	0.00274	0.000100	0.000200	mg/L	2	0.00400	---	69	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	0.00277	0.000100	0.000200	mg/L	2	0.00400	---	69	50-121%	---	---	
2,4,5-Trichlorophenol	0.00290	0.000100	0.000200	mg/L	2	0.00400	---	73	53-123%	---	---	
2,4,6-Trichlorophenol	0.00293	0.000100	0.000200	mg/L	2	0.00400	---	73	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	0.00292	0.000400	0.000800	mg/L	2	0.00400	---	73	55-135%	---	---	
Butyl benzyl phthalate	0.00297	0.000400	0.000800	mg/L	2	0.00400	---	74	53-134%	---	---	
Diethylphthalate	0.00260	0.000400	0.000800	mg/L	2	0.00400	---	65	56-125%	---	---	
Dimethylphthalate	0.00276	0.000400	0.000800	mg/L	2	0.00400	---	69	45-127%	---	---	
Di-n-butylphthalate	0.00289	0.000400	0.000800	mg/L	2	0.00400	---	72	59-127%	---	---	
Di-n-octyl phthalate	0.00280	0.000400	0.000800	mg/L	2	0.00400	---	70	51-140%	---	---	
N-Nitrosodimethylamine	0.00151	0.0000500	0.000100	mg/L	2	0.00400	---	38	10-120%	---	---	
N-Nitroso-di-n-propylamine	0.00271	0.0000500	0.000100	mg/L	2	0.00400	---	68	49-120%	---	---	
N-Nitrosodiphenylamine	0.00287	0.0000500	0.000100	mg/L	2	0.00400	---	72	51-123%	---	---	
Bis(2-Chloroethoxy) methane	0.00260	0.0000500	0.000100	mg/L	2	0.00400	---	65	48-120%	---	---	
Bis(2-Chloroethyl) ether	0.00253	0.0000500	0.000100	mg/L	2	0.00400	---	63	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	0.00249	0.0000500	0.000100	mg/L	2	0.00400	---	62	37-130%	---	---	
Hexachlorobenzene	0.00257	0.0000200	0.0000400	mg/L	2	0.00400	---	64	53-125%	---	---	

Apex Laboratories

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (0051024-BS1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 10:22							
Hexachlorobutadiene	0.00243	0.0000500	0.000100	mg/L	2	0.00400	---	61	22-124%	---	---	
Hexachlorocyclopentadiene	0.00289	0.000100	0.000200	mg/L	2	0.00400	---	72	10-127%	---	---	
Hexachloroethane	0.00243	0.0000500	0.000100	mg/L	2	0.00400	---	61	21-120%	---	---	
2-Chloronaphthalene	0.00272	0.0000200	0.0000400	mg/L	2	0.00400	---	68	40-120%	---	---	
1,2-Dichlorobenzene	0.00242	0.0000500	0.000100	mg/L	2	0.00400	---	60	32-120%	---	---	
1,3-Dichlorobenzene	0.00226	0.0000500	0.000100	mg/L	2	0.00400	---	57	28-120%	---	---	
1,4-Dichlorobenzene	0.00236	0.0000500	0.000100	mg/L	2	0.00400	---	59	29-120%	---	---	
1,2,4-Trichlorobenzene	0.00253	0.0000500	0.000100	mg/L	2	0.00400	---	63	29-120%	---	---	
4-Bromophenyl phenyl ether	0.00272	0.0000500	0.000100	mg/L	2	0.00400	---	68	55-124%	---	---	
4-Chlorophenyl phenyl ether	0.00258	0.0000500	0.000100	mg/L	2	0.00400	---	64	53-121%	---	---	
Aniline	0.00248	0.000100	0.000200	mg/L	2	0.00400	---	62	10-120%	---	---	
4-Chloroaniline	0.00273	0.0000500	0.000100	mg/L	2	0.00400	---	68	33-120%	---	---	
2-Nitroaniline	0.00304	0.000400	0.000800	mg/L	2	0.00400	---	76	55-127%	---	---	
3-Nitroaniline	0.00292	0.000400	0.000800	mg/L	2	0.00400	---	73	41-128%	---	---	
4-Nitroaniline	0.00338	0.000400	0.000800	mg/L	2	0.00400	---	84	54-128%	---	---	Q-41
Nitrobenzene	0.00264	0.000200	0.000400	mg/L	2	0.00400	---	66	45-121%	---	---	
2,4-Dinitrotoluene	0.00273	0.000200	0.000400	mg/L	2	0.00400	---	68	57-128%	---	---	
2,6-Dinitrotoluene	0.00286	0.000200	0.000400	mg/L	2	0.00400	---	71	57-124%	---	---	
Benzoic acid	0.00365	0.00250	0.00250	mg/L	2	0.00800	---	46	10-120%	---	---	
Benzyl alcohol	0.00222	0.000200	0.000400	mg/L	2	0.00400	---	55	31-120%	---	---	
Isophorone	0.00276	0.0000500	0.000100	mg/L	2	0.00400	---	69	42-124%	---	---	
Azobenzene (1,2-DPH)	0.00290	0.0000500	0.000100	mg/L	2	0.00400	---	72	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	0.00275	0.000500	0.00100	mg/L	2	0.00400	---	69	57-136%	---	---	
3,3'-Dichlorobenzidine	0.0136	0.00100	0.00200	mg/L	2	0.00800	---	**170**	**27-129%**	---	---	Q-29, Q-41
1,2-Dinitrobenzene	0.00282	0.000500	0.00100	mg/L	2	0.00400	---	71	59-120%	---	---	
1,3-Dinitrobenzene	0.00290	0.000500	0.00100	mg/L	2	0.00400	---	72	49-128%	---	---	
1,4-Dinitrobenzene	0.00303	0.000500	0.00100	mg/L	2	0.00400	---	76	72-130%	---	---	
Pyridine	0.00138	0.000200	0.000400	mg/L	2	0.00400	---	35	10-120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 68 %*	*Limits: 44-120 %*	*Dilution: 2x*	
2-Fluorobiphenyl (Surr)	*67 %*	*44-120 %*	*"*	
Phenol-d6 (Surr)	*25 %*	*10-133 %*	*"*	
p-Terphenyl-d14 (Surr)	*75 %*	*50-134 %*	*"*	
2-Fluorophenol (Surr)	*33 %*	*19-120 %*	*"*	
2,4,6-Tribromophenol (Surr)	*73 %*	*43-140 %*	*"*	

Apex Laboratories

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Darwin Thomas, Business Development Director

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (0051024-BSD1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 10:59							**Q-19**
EPA 8270D												
Acenaphthene	0.00263	0.0000200	0.0000400	mg/L	2	0.00400	---	66	47-122%	3	30%	
Acenaphthylene	0.00271	0.0000200	0.0000400	mg/L	2	0.00400	---	68	41-130%	2	30%	
Anthracene	0.00274	0.0000200	0.0000400	mg/L	2	0.00400	---	69	57-123%	0.5	30%	
Benz(a)anthracene	0.00284	0.0000200	0.0000400	mg/L	2	0.00400	---	71	58-125%	0.7	30%	
Benzo(a)pyrene	0.00296	0.0000300	0.0000600	mg/L	2	0.00400	---	74	54-128%	3	30%	
Benzo(b)fluoranthene	0.00300	0.0000300	0.0000600	mg/L	2	0.00400	---	75	53-131%	2	30%	
Benzo(k)fluoranthene	0.00301	0.0000300	0.0000600	mg/L	2	0.00400	---	75	57-129%	3	30%	
Benzo(g,h,i)perylene	0.00308	0.0000200	0.0000400	mg/L	2	0.00400	---	77	50-134%	5	30%	
Chrysene	0.00287	0.0000200	0.0000400	mg/L	2	0.00400	---	72	59-123%	0.2	30%	
Dibenz(a,h)anthracene	0.00297	0.0000200	0.0000400	mg/L	2	0.00400	---	74	51-134%	3	30%	
Fluoranthene	0.00283	0.0000200	0.0000400	mg/L	2	0.00400	---	71	57-128%	0.4	30%	
Fluorene	0.00284	0.0000200	0.0000400	mg/L	2	0.00400	---	71	52-124%	6	30%	
Indeno(1,2,3-cd)pyrene	0.00283	0.0000200	0.0000400	mg/L	2	0.00400	---	71	52-134%	4	30%	
1-Methylnaphthalene	0.00230	0.0000400	0.0000800	mg/L	2	0.00400	---	57	41-120%	10	30%	
2-Methylnaphthalene	0.00228	0.0000400	0.0000800	mg/L	2	0.00400	---	57	40-121%	10	30%	
Naphthalene	0.00247	0.0000400	0.0000800	mg/L	2	0.00400	---	62	40-121%	2	30%	
Phenanthrene	0.00273	0.0000200	0.0000400	mg/L	2	0.00400	---	68	59-120%	1	30%	
Pyrene	0.00286	0.0000200	0.0000400	mg/L	2	0.00400	---	71	57-126%	1	30%	
Carbazole	0.00325	0.0000300	0.0000600	mg/L	2	0.00400	---	81	60-122%	2	30%	
Dibenzofuran	0.00275	0.0000200	0.0000400	mg/L	2	0.00400	---	69	53-120%	5	30%	
4-Chloro-3-methylphenol	0.00247	0.000200	0.000400	mg/L	2	0.00400	---	62	52-120%	2	30%	
2-Chlorophenol	0.00249	0.000100	0.000200	mg/L	2	0.00400	---	62	38-120%	1	30%	
2,4-Dichlorophenol	0.00270	0.000100	0.000200	mg/L	2	0.00400	---	67	47-121%	1	30%	
2,4-Dimethylphenol	0.00159	0.000100	0.000200	mg/L	2	0.00400	---	40	31-124%	16	30%	
2,4-Dinitrophenol	0.00363	0.000500	0.00100	mg/L	2	0.00400	---	91	23-143%	4	30%	
4,6-Dinitro-2-methylphenol	0.00321	0.000500	0.00100	mg/L	2	0.00400	---	80	44-137%	13	30%	
2-Methylphenol	0.00203	0.0000500	0.000100	mg/L	2	0.00400	---	51	30-120%	9	30%	
3+4-Methylphenol(s)	0.00182	0.0000500	0.000100	mg/L	2	0.00400	---	45	29-120%	9	30%	
2-Nitrophenol	0.00288	0.000200	0.000400	mg/L	2	0.00400	---	72	47-123%	3	30%	
4-Nitrophenol	0.00116	0.000200	0.000400	mg/L	2	0.00400	---	29	10-120%	25	30%	
Pentachlorophenol (PCP)	0.00282	0.000200	0.000400	mg/L	2	0.00400	---	71	35-138%	0.4	30%	
Phenol	0.00122	0.000400	0.000800	mg/L	2	0.00400	---	31	10-120%	1	30%	
2,3,4,6-Tetrachlorophenol	0.00304	0.000100	0.000200	mg/L	2	0.00400	---	76	50-128%	10	30%	

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Darwin Thomas, Business Development Director

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503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (0051024-BSD1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 10:59							**Q-19**
2,3,5,6-Tetrachlorophenol	0.00304	0.000100	0.000200	mg/L	2	0.00400	---	76	50-121%	9	30%	
2,4,5-Trichlorophenol	0.00289	0.000100	0.000200	mg/L	2	0.00400	---	72	53-123%	0.6	30%	
2,4,6-Trichlorophenol	0.00279	0.000100	0.000200	mg/L	2	0.00400	---	70	50-125%	5	30%	
Bis(2-ethylhexyl)phthalate	0.00306	0.000400	0.000800	mg/L	2	0.00400	---	77	55-135%	5	30%	
Butyl benzyl phthalate	0.00294	0.000400	0.000800	mg/L	2	0.00400	---	73	53-134%	1	30%	
Diethylphthalate	0.00278	0.000400	0.000800	mg/L	2	0.00400	---	70	56-125%	7	30%	
Dimethylphthalate	0.00282	0.000400	0.000800	mg/L	2	0.00400	---	70	45-127%	2	30%	
Di-n-butylphthalate	0.00292	0.000400	0.000800	mg/L	2	0.00400	---	73	59-127%	1	30%	
Di-n-octyl phthalate	0.00306	0.000400	0.000800	mg/L	2	0.00400	---	77	51-140%	9	30%	
N-Nitrosodimethylamine	0.00178	0.0000500	0.000100	mg/L	2	0.00400	---	44	10-120%	17	30%	
N-Nitroso-di-n-propylamine	0.00237	0.0000500	0.000100	mg/L	2	0.00400	---	59	49-120%	13	30%	
N-Nitrosodiphenylamine	0.00275	0.0000500	0.000100	mg/L	2	0.00400	---	69	51-123%	4	30%	
Bis(2-Chloroethoxy) methane	0.00255	0.0000500	0.000100	mg/L	2	0.00400	---	64	48-120%	2	30%	
Bis(2-Chloroethyl) ether	0.00231	0.0000500	0.000100	mg/L	2	0.00400	---	58	43-120%	9	30%	
2,2'-Oxybis(1-Chloropropane)	0.00234	0.0000500	0.000100	mg/L	2	0.00400	---	59	37-130%	6	30%	
Hexachlorobenzene	0.00239	0.0000200	0.0000400	mg/L	2	0.00400	---	60	53-125%	7	30%	
Hexachlorobutadiene	0.00241	0.0000500	0.000100	mg/L	2	0.00400	---	60	22-124%	0.6	30%	
Hexachlorocyclopentadiene	0.00283	0.000100	0.000200	mg/L	2	0.00400	---	71	10-127%	2	30%	
Hexachloroethane	0.00242	0.0000500	0.000100	mg/L	2	0.00400	---	61	21-120%	0.6	30%	
2-Chloronaphthalene	0.00255	0.0000200	0.0000400	mg/L	2	0.00400	---	64	40-120%	7	30%	
1,2-Dichlorobenzene	0.00236	0.0000500	0.000100	mg/L	2	0.00400	---	59	32-120%	3	30%	
1,3-Dichlorobenzene	0.00225	0.0000500	0.000100	mg/L	2	0.00400	---	56	28-120%	0.7	30%	
1,4-Dichlorobenzene	0.00225	0.0000500	0.000100	mg/L	2	0.00400	---	56	29-120%	5	30%	
1,2,4-Trichlorobenzene	0.00249	0.0000500	0.000100	mg/L	2	0.00400	---	62	29-120%	2	30%	
4-Bromophenyl phenyl ether	0.00261	0.0000500	0.000100	mg/L	2	0.00400	---	65	55-124%	4	30%	
4-Chlorophenyl phenyl ether	0.00272	0.0000500	0.000100	mg/L	2	0.00400	---	68	53-121%	5	30%	
Aniline	0.00236	0.000100	0.000200	mg/L	2	0.00400	---	59	10-120%	5	30%	
4-Chloroaniline	0.00258	0.0000500	0.000100	mg/L	2	0.00400	---	65	33-120%	5	30%	
2-Nitroaniline	0.00306	0.000400	0.000800	mg/L	2	0.00400	---	77	55-127%	0.8	30%	
3-Nitroaniline	0.00337	0.000400	0.000800	mg/L	2	0.00400	---	84	41-128%	14	30%	
4-Nitroaniline	0.00395	0.000400	0.000800	mg/L	2	0.00400	---	99	54-128%	16	30%	Q-41
Nitrobenzene	0.00242	0.000200	0.000400	mg/L	2	0.00400	---	61	45-121%	9	30%	
2,4-Dinitrotoluene	0.00286	0.000200	0.000400	mg/L	2	0.00400	---	72	57-128%	5	30%	
2,6-Dinitrotoluene	0.00290	0.000200	0.000400	mg/L	2	0.00400	---	72	57-124%	1	30%	

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0051024 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (0051024-BSD1)			Prepared: 05/28/20 14:25		Analyzed: 05/29/20 10:59							**Q-19**
Benzoic acid	0.00378	0.00250	0.00250	mg/L	2	0.00800	---	47	10-120%	3	30%	
Benzyl alcohol	0.00205	0.000200	0.000400	mg/L	2	0.00400	---	51	31-120%	8	30%	
Isophorone	0.00282	0.0000500	0.000100	mg/L	2	0.00400	---	70	42-124%	2	30%	
Azobenzene (1,2-DPH)	0.00266	0.0000500	0.000100	mg/L	2	0.00400	---	66	61-120%	9	30%	
Bis(2-Ethylhexyl) adipate	0.00275	0.000500	0.00100	mg/L	2	0.00400	---	69	57-136%	0.3	30%	
3,3'-Dichlorobenzidine	0.0158	0.00100	0.00200	mg/L	2	0.00800	---	**197**	**27-129%**	15	30%	Q-29, Q-41
1,2-Dinitrobenzene	0.00298	0.000500	0.00100	mg/L	2	0.00400	---	74	59-120%	5	30%	
1,3-Dinitrobenzene	0.00299	0.000500	0.00100	mg/L	2	0.00400	---	75	49-128%	3	30%	
1,4-Dinitrobenzene	0.00300	0.000500	0.00100	mg/L	2	0.00400	---	75	72-130%	0.8	30%	
Pyridine	0.00160	0.000200	0.000400	mg/L	2	0.00400	---	40	10-120%	15	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 62 %*		*Limits: 44-120 %*				*Dilution: 2x*			
2-Fluorobiphenyl (Surr)			*63 %*		*44-120 %*				*"*			
Phenol-d6 (Surr)			*25 %*		*10-133 %*				*"*			
p-Terphenyl-d14 (Surr)			*72 %*		*50-134 %*				*"*			
2-Fluorophenol (Surr)			*35 %*		*19-120 %*				*"*			
2,4,6-Tribromophenol (Surr)			*69 %*		*43-140 %*				*"*			

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Apex Laboratories, LLC

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020A (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0060121 - EPA 3015A							**Water**					
Blank (0060121-BLK1)			Prepared: 06/03/20 10:37		Analyzed: 06/03/20 14:46							
EPA 6020A												
Arsenic	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Chromium	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Copper	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
Zinc	ND	0.00200	0.00400	mg/L	1	---	---	---	---	---	---	
LCS (0060121-BS1)			Prepared: 06/03/20 10:37		Analyzed: 06/03/20 14:51							
EPA 6020A												
Arsenic	0.0539	0.000500	0.00100	mg/L	1	0.0556	---	97	80-120%	---	---	
Chromium	0.0514	0.000500	0.00100	mg/L	1	0.0556	---	93	80-120%	---	---	
Copper	0.0542	0.00100	0.00200	mg/L	1	0.0556	---	98	80-120%	---	---	
Zinc	0.0515	0.00200	0.00400	mg/L	1	0.0556	---	93	80-120%	---	---	
Duplicate (0060121-DUP1)			Prepared: 06/03/20 10:37		Analyzed: 06/03/20 15:49							
QC Source Sample: Non-SDG (A0E0707-03)												
Arsenic	**0.00381**	0.000500	0.00100	mg/L	1	---	0.00384	---	---	0.8	20%	
Chromium	**0.00384**	0.000500	0.00100	mg/L	1	---	0.00380	---	---	1	20%	
Copper	**0.00133**	0.00100	0.00200	mg/L	1	---	0.00137	---	---	3	20%	J
Zinc	ND	0.00200	0.00400	mg/L	1	---	ND	---	---	---	20%	
Matrix Spike (0060121-MS1)			Prepared: 06/03/20 10:37		Analyzed: 06/03/20 15:54							
QC Source Sample: Non-SDG (A0E0707-03)												
EPA 6020A												
Arsenic	0.0570	0.000500	0.00100	mg/L	1	0.0556	0.00384	96	75-125%	---	---	
Chromium	0.0540	0.000500	0.00100	mg/L	1	0.0556	0.00380	90	75-125%	---	---	
Copper	0.0526	0.00100	0.00200	mg/L	1	0.0556	0.00137	92	75-125%	---	---	
Zinc	0.0510	0.00200	0.00400	mg/L	1	0.0556	ND	92	75-125%	---	---	

Apex Laboratories

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

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 0050901 - Total Suspended Solids												**Water**
Blank (0050901-BLK1)			Prepared: 05/26/20 10:53		Analyzed: 05/27/20 13:03							
SM 2540 D												
Total Suspended Solids	ND	5.00	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (0050901-DUP1)			Prepared: 05/26/20 10:53		Analyzed: 05/27/20 13:03							
QC Source Sample: Non-SDG (A0E0570-01)												
Total Suspended Solids	**26.0**	5.00	5.00	mg/L	1	---	27.0	---	---	4	10%	
Duplicate (0050901-DUP2)			Prepared: 05/26/20 10:53		Analyzed: 05/27/20 13:03							
QC Source Sample: PDI-026SW-A-200521-01 (A0E0669-01)												
SM 2540 D												
Total Suspended Solids	**11.0**	5.00	5.00	mg/L	1	---	8.00	---	---	**32**	**10%**	Q-05
Reference (0050901-SRM1)			Prepared: 05/26/20 10:53		Analyzed: 05/27/20 13:03							
SM 2540 D												
Total Suspended Solids	91.0			mg/L	1	100		91	77.1-110%	---	---	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050837 - Method Prep: Aq							**Water**					
Duplicate (0050837-DUP1)			Prepared: 05/22/20 08:36	Analyzed: 05/23/20 16:24								
QC Source Sample: Non-SDG (A0E0541-01)												
pH	**8.36**	---		pH Units	1	---	8.35	---	---	0.1	5%	H-12
pH Temperature (deg C)	**18.2**	---		pH Units	1	---	18.4	---	---	1	30%	H-12
Reference (0050837-SRM1)			Prepared: 05/22/20 08:36	Analyzed: 05/23/20 08:53								
SM 4500-H+ B												
pH	6.01	---		pH Units	1	6.00		100	33333-101.666	---	---	
pH Temperature (deg C)	21.0	---		pH Units	1	20.0		105	50-200%	---	---	
Reference (0050837-SRM2)			Prepared: 05/22/20 08:36	Analyzed: 05/23/20 08:54								
SM 4500-H+ B												
pH	7.96	---		pH Units	1	8.00		100	98.75-101.25%	---	---	
pH Temperature (deg C)	21.0	---		pH Units	1	20.0		105	50-200%	---	---	
Reference (0050837-SRM3)			Prepared: 05/22/20 08:36	Analyzed: 05/23/20 16:17								
SM 4500-H+ B												
pH	6.03	---		pH Units	1	6.00		100	33333-101.666	---	---	
pH Temperature (deg C)	21.8	---		pH Units	1	20.0		109	50-200%	---	---	
Reference (0050837-SRM4)			Prepared: 05/22/20 08:36	Analyzed: 05/23/20 16:38								
SM 4500-H+ B												
pH	7.99	---		pH Units	1	8.00		100	98.75-101.25%	---	---	
pH Temperature (deg C)	21.8	---		pH Units	1	20.0		109	50-200%	---	---	

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503-718-2323
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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

SAMPLE PREPARATION INFORMATION

BTEX Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050888							
A0E0669-01	WS	EPA 8260C	05/21/20 13:30	05/26/20 10:16	5mL/5mL	5mL/5mL	1.00

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0060161							
A0E0669-01	WS	EPA 8082A	05/21/20 13:30	06/04/20 07:32	1040mL/1mL	1000mL/1mL	0.96

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050955							
A0E0669-01	WS	EPA 8081B	05/21/20 13:30	05/28/20 07:17	1030mL/5mL	1000mL/5mL	0.97

Semivolatile Organic Compounds by EPA 8270D

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0051024							
A0E0669-01RE3	WS	EPA 8270D	05/21/20 13:30	05/28/20 15:42	1040mL/1mL	1000mL/1mL	0.96

Total Metals by EPA 6020A (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0060121							
A0E0669-01	WS	EPA 6020A	05/21/20 13:30	06/03/20 10:37	45mL/50mL	45mL/50mL	1.00

Solid and Moisture Determinations

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050901							
A0E0669-01	WS	SM 2540 D	05/21/20 13:30	05/26/20 10:53			NA

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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050837							
A0E0669-01	WS	SM 4500-H+ B	05/21/20 13:30	05/22/20 15:55	20mL/20mL	20mL/20mL	NA

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

QUALIFIER DEFINITIONS

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

Apex Laboratories

B	Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
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-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-12	Sample analysis was performed >15 minutes after sample collection. Consult regulator or permit manager to determine the usability of data for intended use.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
Q-52	Due to erratic or low blank spike recoveries, results for this analyte are considered Estimated Values.

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

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.

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

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, LLC

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
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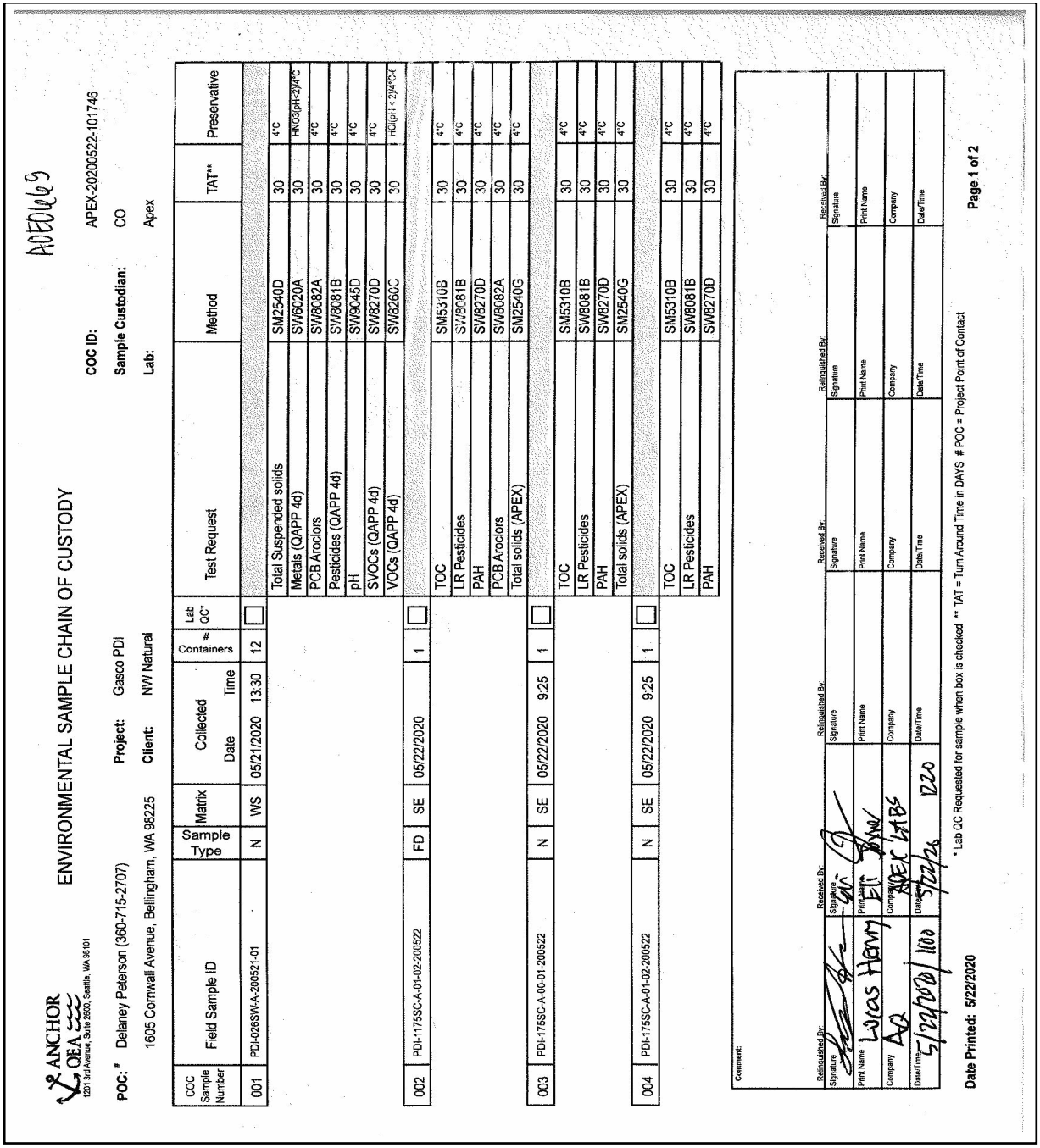

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0E0669

COC ID: APEX-20200522-101746

POC: # Delaney Peterson (360-715-2707) Project: Gasco PDI Sample Custodian: CO

1605 Cornwall Avenue, Bellingham, WA 98225 Client: NW Natural Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-026SW-A-200521-01	N	WS	05/21/2020	13:30	12	☐	Total Suspended solids	SM2540D	30	4°C
								Metals (QAPP 4d)	SW6020A	30	HNO3(pH<2)/4°C
								PCB Aroclors	SW8082A	30	4°C
								Pesticides (QAPP 4d)	SW8081B	30	4°C
								pH	SW9045D	30	4°C
								SVOCs (QAPP 4d)	SW8270D	30	4°C
								VOCs (QAPP 4d)	SW8260C	30	HCl(pH < 2)/4°C;4
002	PDI-1175SC-A-01-02-200522	FD	SE	05/22/2020		1	☐	TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C
								PCB Aroclors	SW8082A	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
003	PDI-175SC-A-00-01-200522	N	SE	05/22/2020	9:25	1	☐	TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
004	PDI-175SC-A-01-02-200522	N	SE	05/22/2020	9:25	1	☐	TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°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

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

Page 1 of 2

Date Printed: 5/22/2020

Apex Laboratories

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Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4d. Elutriate Testing**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0E0669 - 07 10 20 1621**

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A0E0669

Project/Project #: Gasco PDI APEX-20200522-101746 Analysis

Delivery Info:

Date/time received: 5/22/20 @ 1220 By: EJ

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

Cooler Inspection Date/time inspected: 5/22/20 @ 1332 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)	2.8						
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: 5/22/20 @ 1530 By: SC

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 X NA X acc 5/22/20

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: EJ Witness: ACK Cooler Inspected by: SC See Project Contact Form: Y

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)

A0E0669

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**Gasco PreRD_DG 2019 - 4d. Elutriate Testing**	**Project Number:**	**[none]**

Report To:

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

Invoice To:

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

Date Due:	06/08/20 17:00 (10 day TAT)		
Received By:	Eli S. Joyner	Date Received:	05/22/20 12:20
Logged In By:	Susan L. Treat	Date Logged In:	05/22/20 15:25

Cooler #1 received at 2.8°C

Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	Yes	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
A0E0669-01 PDI-026SW-A-200521-01 [Water] Sampled 05/21/20 13:30 (GMT-08:00) Pacific Time (US & Canada) 12 Containers				
Metals				
Metals, Select 1	06/05/20 17:00	10	11/17/20 13:30	Total As,Cr,Cu,Zn
Project Mgmt				
Data Package	06/05/20 17:00	10	08/28/20 13:30	
Semivols (ECD)				
8081B Pesticides + Add	06/05/20 17:00	10	05/28/20 13:30	custom, MDL
8082 PCBs - Low Level (1000/1mL)	06/05/20 17:00	10	05/21/21 13:30	MDL
Semivols (Scan)				
8270D LL Full List	06/05/20 17:00	10	05/28/20 13:30	custom
Volatiles				
8260C BTEX	06/01/20 17:00	5	06/04/20 13:30	EB only, MDL
Wet Chem				
pH - SM4500-H+ B (Aq)	06/05/20 17:00	10	05/21/20 13:44	
Solids, TSS (SM 2540 D)	06/05/20 17:00	10	05/28/20 13:30	

Analysis groups included in this work order

Metals, Select 1

As (Arsenic) - 6020 - Total | Cr (Chromium) - 6020 - Total | Cu (Copper) - 6020 - Total | Zn (Zinc) - 6020 - Total

waters MDL and mg/L

Reviewed By

Date

AOE0669

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX-20200522-101746

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: CO
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-026SW-A-200521-01	N	WS	05/21/2020	13:30	12	☐				
								Total Suspended solids	SM2540D	30	4°C
								Metals (QAPP 4d)	SW6020A	30	HNO3(pH<2)/4°C
								PCB Aroclors	SW8082A	30	4°C
								Pesticides (QAPP 4d)	SW8081B	30	4°C
								pH	SW9045D	30	4°C
								SVOCs (QAPP 4d)	SW8270D	30	4°C
								VOCs (QAPP 4d)	SW8260C	30	HCl(pH < 2)/4°C-f
002	PDI-1175SC-A-01-02-200522	FD	SE	05/22/2020		1	☐				
								TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C
								PCB Aroclors	SW8082A	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
003	PDI-175SC-A-00-01-200522	N	SE	05/22/2020	9:25	1	☐				
								TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
004	PDI-175SC-A-01-02-200522	N	SE	05/22/2020	9:25	1	☐				
								TOC	SM5310B	30	4°C
								LR Pesticides	SW8081B	30	4°C
								PAH	SW8270D	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: Lucas Henry	Print Name: Eli Byrne	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX LABS	Company	Company	Company	Company
Date/Time: 5/22/2020 1100	Date/Time: 5/22/20 1220	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 5/22/2020

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

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A0 E016609

Project/Project #: Gasco PDI APEX-20200522-101746 Analysis

Delivery Info:

Date/time received: 5/22/20 @ 1220 By: EJ

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

Cooler Inspection Date/time inspected: 5/22/20 @ 1332 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)	2.8						
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: 5/22/20 @ 1530 By: EJ

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 X NA X acc 5/22/20

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: EJ Witness: ACC Cooler Inspected by: EJ 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: GCMS

METHOD: EPA 8260C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

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

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Benzene	0.000100	0.000200	mg/L
Toluene	0.000500	0.00100	mg/L
Ethylbenzene	0.000250	0.000500	mg/L
Xylenes, total	0.000750	0.00150	mg/L

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

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PDI-026SW-A-200521-01

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	WS	Laboratory ID:	A0E0669-01	File ID:	VG20052623.D
Sampled:	05/21/20 13:30	Prepared:	05/26/20 10:16	Analyzed:	05/26/20 18:02
		Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

Batch: 0050888 Sequence: 0E26033 Calibration: A0D3007 Instrument: VOA-GCMS7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	Q
100-41-4	Ethylbenzene	1	0.000250	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	56.7	113	80 - 120	
Toluene-d8 (Surr)	50.0	49.9	100	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	51.0	102	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	133634	6.837	141455	6.837	
Chlorobenzene-d5 (ISTD)	416927	10.434	412967	10.434	
1,4-Dichlorobenzene-d4 (ISTD)	186806	12.275	211616	12.275	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Batch: 0050888 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050888-BLK1	VG20052606.D	05/26/20 08:00	
LCS	0050888-BS1	VG20052604.D	05/26/20 08:00	
PDI-026SW-A-200521-01	A0E0669-01	VG20052623.D	05/26/20 10:16	

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 8260C

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0050888-BLK1	File ID:	VG20052606.D
Prepared:	05/26/20 08:00	Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL
Analyzed:	05/26/20 10:21	Instrument:	VOA-GCMS7		
Batch:	0050888	Sequence:	0E26033	Calibration:	A0D3007

CAS NO.	COMPOUND	CONC. (mg/L)	Q
71-43-2	Benzene	0.000100	U
100-41-4	Ethylbenzene	0.000250	U
108-88-3	Toluene	0.000500	U
1330-20-7	Xylenes, total	0.000750	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	55.8	112	80 - 120	
Toluene-d8 (Surr)	50.0	49.3	99	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	51.5	103	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	145348	6.837	141455	6.837	
Chlorobenzene-d5 (ISTD)	447034	10.434	412967	10.434	
1,4-Dichlorobenzene-d4 (ISTD)	195583	12.275	211616	12.275	

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0050888	Laboratory ID:	0050888-BS1
Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Benzene	0.0200	0.0214	107	80 - 120
Ethylbenzene	0.0200	0.0210	105	80 - 120
Toluene	0.0200	0.0199	100	80 - 120
Xylenes, total	0.0600	0.0594	99	80 - 120

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0D28059	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0D28059-TUN1	VG20042803.D	04/28/20 14:55
Initial Cal Blank	0D28059-ICB1	VG20042804.D	04/28/20 15:22
Cal Standard	0D28059-CAL1	VG20042805.D	04/28/20 15:49
Cal Standard	0D28059-CAL2	VG20042806.D	04/28/20 16:16
Cal Standard	0D28059-CAL3	VG20042807.D	04/28/20 16:43
Cal Standard	0D28059-CAL4	VG20042808.D	04/28/20 17:10
Cal Standard	0D28059-CAL5	VG20042809.D	04/28/20 17:37
Cal Standard	0D28059-CAL6	VG20042810.D	04/28/20 18:04
Cal Standard	0D28059-CAL7	VG20042811.D	04/28/20 18:31
Cal Standard	0D28059-CAL8	VG20042812.D	04/28/20 18:58
Cal Standard	0D28059-CAL9	VG20042813.D	04/28/20 19:25
Cal Standard	0D28059-CALA	VG20042815.D	04/28/20 20:19
Cal Standard	0D28059-CALB	VG20042817.D	04/28/20 21:14
Initial Cal Check	0D28059-ICV1	VG20042820.D	04/28/20 22:35

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E26033	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E26033-TUN1	VG20052603.D	05/26/20 08:59
Calibration Check	0E26033-CCV1	VG20052604.D	05/26/20 09:26
Blank	0050888-BLK1	VG20052606.D	05/26/20 10:21
PDI-026SW-A-200521-01	A0E0669-01	VG20052623.D	05/26/20 18:02

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.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Lab File ID:	VG20042803.D	Injection Date:	04/28/20
Instrument ID:	VOA-GCMS7	Injection Time:	14:55
Sequence:	0D28059	Lab Sample ID:	0D28059-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 95	50 - 200% of m/z 174	122.11	PASS
m/z 96	5 - 9% of m/z 95	6.59	PASS
m/z 173	Less than 2% of m/z 174	0.59	PASS
m/z 174	50 - 200% of m/z 95	81.89	PASS
m/z 175	5 - 9% of m/z 174	6.98	PASS
m/z 176	95 - 105% of m/z 174	96.48	PASS
m/z 177	5 - 10% of m/z 176	6.50	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Lab File ID:	VG20052603.D	Injection Date:	05/26/20
Instrument ID:	VOA-GCMS7	Injection Time:	08:59
Sequence:	0E26033	Lab Sample ID:	0E26033-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 95	50 - 200% of m/z 174	116.32	PASS
m/z 96	5 - 9% of m/z 95	6.53	PASS
m/z 173	Less than 2% of m/z 174	0.70	PASS
m/z 174	50 - 200% of m/z 95	85.97	PASS
m/z 175	5 - 9% of m/z 174	7.10	PASS
m/z 176	95 - 105% of m/z 174	95.52	PASS
m/z 177	5 - 10% of m/z 176	6.55	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8260C

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Calibration: A0D3007 Date: 04/30/20 16:18 Instrument: VOA-GCMS7

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.96816	Ave	7.851201	6.727	5.778003E-02			20	
Ethylbenzene	1.561105	Ave	7.392247	10.46873	4.114612E-02			20	
Toluene	1.580707	Ave	10.0996	9.020091	1.535634E-02			20	
Xylenes, total	1.041955	XXX	16.7617	10.94764	2.606792E-02				
1,4-Difluorobenzene (Surr)	3.216917	Ave	1.750201	7.422	1.021206E-02			20	
Toluene-d8 (Surr)	1.365108	Ave	2.733357	8.965	2.139081E-02			20	
4-Bromofluorobenzene (Surr)	0.8021398	Ave	3.410392	11.42782	1.185887E-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 8260C

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0D3007

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: VOA-GCMS7

Calibration Date: 04/30/20 16:18

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
Benzene	0.1	4.417295	0.2	3.805997	0.4	3.472035	1	3.62183	2	3.628158	5	3.914027
Ethylbenzene	0.1	1.741329	0.2	1.390234	0.4	1.395905	1	1.506301	2	1.470853	5	1.528409
Toluene	0.1	2.039612	0.2	1.606634	0.4	1.601195	1	1.506691	2	1.464126	5	1.517766
m,p-Xylene	0.2	0.9424136	0.4	0.900484	0.8	0.8399966	2	0.9115889	4	0.9161075	10	1.04835
o-Xylene	0.1	1.064145	0.2	0.74459	0.4	0.7548046	1	0.7945953	2	0.821777	5	0.947403
Xylenes, total	0.3	0.9829909	0.6	0.8485193	1.2	0.8115993	3	0.8725911	6	0.884664	15	1.014701
1,4-Difluorobenzene (Surr)	50	3.247175	50	3.304631	50	3.282782	50	3.271734	50	3.226354	50	3.185244
Toluene-d8 (Surr)	50	1.410628	50	1.406848	50	1.386443	50	1.387665	50	1.393789	50	1.369514
4-Bromofluorobenzene (Surr)	50	0.8326555	50	0.8264596	50	0.8297939	50	0.8241855	50	0.8227063	50	0.8043802

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0D3007
Instrument: VOA-GCMS7
Matrix:
Calibration Date: 04/30/20 16:18

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
Benzene	10	3.992491	20	4.253417	50	4.216124	100	4.026935	200	4.301454		
Ethylbenzene	10	1.563588	20	1.665245	50	1.668314	100	1.585854	200	1.656126		
Toluene	10	1.512633	20	1.583339	50	1.561497	100	1.472939	200	1.52134		
m,p-Xylene	20	1.12378	40	1.22953	100	1.255705	200	1.209829	400	1.250222		
o-Xylene	10	1.049828	20	1.194388	50	1.258466	100	1.223484	200	1.275031		
Xylenes, total	30	1.099129	60	1.217816	150	1.256626	300	1.214381	600	1.258492		
1,4-Difluorobenzene (Surr)	50	3.155319	50	3.149654	50	3.169607	50	3.156234	50	3.237351		
Toluene-d8 (Surr)	50	1.361381	50	1.350286	50	1.33504	50	1.322794	50	1.291798		
4-Bromofluorobenzene (Surr)	50	0.7985304	50	0.7814303	50	0.7680889	50	0.7553605	50	0.7799467		

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Instrument ID:	VOA-GCMS7	Calibration:	A0D3007
Lab File ID:	VG20042820.D		
Sequence:	0D28059	Inject Date:	04/28/20
Lab Sample ID:	0D28059-ICV1	Inject Time:	22:35

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Benzene	20.0	21.1	5.3	70 - 130
Ethylbenzene	20.0	21.8	8.8	70 - 130
Toluene	20.0	20.0	0.1	70 - 130
Xylenes, total	60.0	63.0	4.9	70 - 130

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0D28059	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0D28059-ICV1)				Lab File ID: VG20042820.D		Analyzed: 04/28/20 22:35		
1,4-Difluorobenzene (Surr)	50.0	98	70 - 130	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	99	70 - 130	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	98	70 - 130	11.428	11.42782	0.0002	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E26033	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (0050888-BS1)			Lab File ID: VG20052604.D		Analyzed: 05/26/20 09:26			
1,4-Difluorobenzene (Surr)	50.0	101	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	97	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	94	80 - 120	11.428	11.42782	0.0002	+/-1.0	
Blank (0050888-BLK1)			Lab File ID: VG20052606.D		Analyzed: 05/26/20 10:21			
1,4-Difluorobenzene (Surr)	50.0	112	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	99	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	103	80 - 120	11.428	11.42782	0.0002	+/-1.0	
PDI-026SW-A-200521-01 (A0E0669-01)			Lab File ID: VG20052623.D		Analyzed: 05/26/20 18:02			
1,4-Difluorobenzene (Surr)	50.0	113	80 - 120	7.422	7.422	0.0000	+/-1.0	
Toluene-d8 (Surr)	50.0	100	80 - 120	8.965	8.965	0.0000	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	102	80 - 120	11.428	11.42782	0.0002	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E26033	Instrument:	VOA-GCMS7
Matrix:	Water	Calibration:	A0D3007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (0050888-BS1)			Lab File ID: VG20052604.D			Analyzed: 05/26/20 09:26			
Pentafluorobenzene (ISTD)	141455	6.837	141455	6.837	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	412967	10.434	412967	10.434	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	211616	12.275	211616	12.275	100	50 - 200	0.0000	+/-0.50	
Calibration Check (0E26033-CCV1)			Lab File ID: VG20052604.D			Analyzed: 05/26/20 09:26			
Pentafluorobenzene (ISTD)	141455	6.837	145168	6.837	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	412967	10.434	402229	10.434	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	211616	12.275	194144	12.275	109	50 - 200	0.0000	+/-0.50	
Blank (0050888-BLK1)			Lab File ID: VG20052606.D			Analyzed: 05/26/20 10:21			
Pentafluorobenzene (ISTD)	145348	6.837	141455	6.837	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	447034	10.434	412967	10.434	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	195583	12.275	211616	12.275	92	50 - 200	0.0000	+/-0.50	
Duplicate (0050888-DUP1)			Lab File ID: VG20052614.D			Analyzed: 05/26/20 13:58			
Pentafluorobenzene (ISTD)	116363	6.837	141455	6.837	82	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	368831	10.434	412967	10.434	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	160053	12.275	211616	12.275	76	50 - 200	0.0000	+/-0.50	
Matrix Spike (0050888-MS1)			Lab File ID: VG20052621.D			Analyzed: 05/26/20 17:08			
Pentafluorobenzene (ISTD)	154727	6.837	141455	6.837	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	457364	10.434	412967	10.434	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	237117	12.275	211616	12.275	112	50 - 200	0.0000	+/-0.50	
PDI-026SW-A-200521-01 (A0E0669-01)			Lab File ID: VG20052623.D			Analyzed: 05/26/20 18:02			
Pentafluorobenzene (ISTD)	133634	6.837	141455	6.837	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	416927	10.434	412967	10.434	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	186806	12.275	211616	12.275	88	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	05/26/20 10:16	4.87	14.00	05/26/20 18:02	5.19	14.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM
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 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Aroclor 1016	0.0000100	0.0000200	mg/L
Aroclor 1221	0.0000100	0.0000200	mg/L
Aroclor 1232	0.0000100	0.0000200	mg/L
Aroclor 1242	0.0000100	0.0000200	mg/L
Aroclor 1248	0.0000100	0.0000200	mg/L
Aroclor 1254	0.0000100	0.0000200	mg/L
Aroclor 1260	0.0000100	0.0000200	mg/L

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

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-026SW-A-200521-01

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	WS	Laboratory ID:	A0E0669-01	File ID:	ECD6R020.D
Sampled:	05/21/20 13:30	Prepared:	06/04/20 07:32	Analyzed:	06/09/20 13:03
		Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1040 mL / 1 mL

Batch: 0060161 Sequence: 0F09029 Calibration: A0C2703 Instrument: DUALECD6R

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	Q
12674-11-2	Aroclor 1016	1	0.00000962	U
11104-28-2	Aroclor 1221	1	0.00000962	U
11141-16-5	Aroclor 1232	1	0.00000962	U
53469-21-9	Aroclor 1242	1	0.00000962	U
12672-29-6	Aroclor 1248	1	0.00000962	U
11097-69-1	Aroclor 1254	1	0.00000962	U
11096-82-5	Aroclor 1260	1	0.00000962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	0.000481	0.000382	79	40 - 135	

* 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 - 4d. Elutriate Testing
Batch: 0060161 Batch Matrix: Water
Preparation: EPA 3510C (Neutral pH)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0060161-BLK1	ECD6R017.D	06/04/20 07:32	
LCS	0060161-BS1	ECD6R018.D	06/04/20 07:32	
LCS Dup	0060161-BSD1	ECD6R019.D	06/04/20 07:32	
PDI-026SW-A-200521-01	A0E0669-01	ECD6R020.D	06/04/20 07:32	

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

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0060161-BLK1	File ID:	ECD6R017.D
Prepared:	06/04/20 07:32	Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1100 mL / 1 mL
Analyzed:	06/09/20 12:10	Instrument:	DUALECD6R		
Batch:	0060161	Sequence:	0F09029	Calibration:	A0C2703

CAS NO.	COMPOUND	CONC. (mg/L)	Q
12674-11-2	Aroclor 1016	0.00000909	U
11104-28-2	Aroclor 1221	0.00000909	U
11141-16-5	Aroclor 1232	0.00000909	U
53469-21-9	Aroclor 1242	0.00000909	U
12672-29-6	Aroclor 1248	0.00000909	U
11097-69-1	Aroclor 1254	0.00000909	U
11096-82-5	Aroclor 1260	0.00000909	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	0.000455	0.000298	66	40 - 135	

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0060161	Laboratory ID:	0060161-BS1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	0.00125	0.000722	58	46 - 129
Aroclor 1260	0.00125	0.000969	77	45 - 134

* = 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 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0060161	Laboratory ID:	0060161-BSD1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	
Aroclor 1016	0.00125	0.000687	55	5	30	46 - 129
Aroclor 1260	0.00125	0.000938	75	3	30	45 - 134

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0C26028	Instrument:	DUALECD6R
Matrix:	Water	Calibration:	A0C2703

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0C26028-ICB1	ECD6R005.D	03/26/20 08:13
Cal Standard	0C26028-CAL1	ECD6R006.D	03/26/20 08:31
Cal Standard	0C26028-CAL2	ECD6R007.D	03/26/20 08:49
Cal Standard	0C26028-CAL3	ECD6R008.D	03/26/20 09:06
Cal Standard	0C26028-CAL4	ECD6R009.D	03/26/20 09:24
Cal Standard	0C26028-CAL5	ECD6R010.D	03/26/20 09:42
Cal Standard	0C26028-CAL6	ECD6R011.D	03/26/20 09:59
Cal Standard	0C26028-CAL7	ECD6R012.D	03/26/20 10:17
Initial Cal Check	0C26028-ICV1	ECD6R014.D	03/26/20 15:53
Cal Standard	0C26028-CAL8	ECD6R015.D	03/26/20 16:11
Cal Standard	0C26028-CAL9	ECD6R016.D	03/26/20 16:29
Cal Standard	0C26028-CALA	ECD6R017.D	03/26/20 16:46
Cal Standard	0C26028-CALB	ECD6R018.D	03/26/20 17:04
Cal Standard	0C26028-CALC	ECD6R019.D	03/26/20 17:22
Cal Standard	0C26028-CALD	ECD6R020.D	03/26/20 17:39
Cal Standard	0C26028-CALE	ECD6R021.D	03/26/20 17:57
Initial Cal Check	0C26028-ICV2	ECD6R022.D	03/26/20 18:15
Initial Cal Check	0C26028-ICV3	ECD6R023.D	03/26/20 18:33
Initial Cal Check	0C26028-ICV4	ECD6R024.D	03/26/20 18:50
Initial Cal Check	0C26028-ICV5	ECD6R025.D	03/26/20 19:08

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.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0F09029	Instrument:	DUALECD6R
Matrix:	Water	Calibration:	A0C2703

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0F09029-CCV2	ECD6R015.D	06/09/20 11:34
Calibration Blank	0F09029-CCB2	ECD6R016.D	06/09/20 11:52
Blank	0060161-BLK1	ECD6R017.D	06/09/20 12:10
LCS	0060161-BS1	ECD6R018.D	06/09/20 12:27
LCS Dup	0060161-BSD1	ECD6R019.D	06/09/20 12:45
PDI-026SW-A-200521-01	A0E0669-01	ECD6R020.D	06/09/20 13:03
Calibration Check	0F09029-CCV3	ECD6R021.D	06/09/20 13:20
Calibration Blank	0F09029-CCB3	ECD6R022.D	06/09/20 13:38

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 - 4d. Elutriate Testing

Calibration: A0C2703 Date: 03/27/20 12:16 Instrument: DUALECD6R

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	
Decachlorobiphenyl (Surr)	78054.57	Ave	5.784923	11.36529	1.808985E-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: A0C2703

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: DUALECD6R

Calibration Date: 03/27/20 12:16

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	6496.7	50	5616.82	100	5452.67	200	5368.965	500	4824.496	1000	4684.538
1016 (2)	20	9211.95	50	8510.44	100	8754.17	200	8377.82	500	8369.758	1000	8134.966
1016 (3)	20	4473.1	50	4132.4	100	4036.04	200	4056.87	500	3721.538	1000	3715.053
1016 (4)	20	5523.7	50	4813.16	100	4624.28	200	4318.625	500	4108.388	1000	3926.225
1016 (5)	20	5786.85	50	5201.76	100	4890.98	200	4796.85	500	4416.858	1000	4353.008
1016 (6)	20	5592.2	50	5009.74	100	4846.55	200	4715.56	500	4464.718	1000	4291.383
Aroclor 1016	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
1260 (1)	20	10532.8	50	9522.36	100	9303.09	200	9023.39	500	8866.274	1000	8800.369
1260 (2)	20	12201.1	50	11374.78	100	10819.04	200	10693.68	500	10697.41	1000	10586.27
1260 (3)	20	11795.2	50	11231.82	100	11239.73	200	10865.42	500	10986.02	1000	10792.98
1260 (4)	20	16288.65	50	15467.22	100	15170.57	200	15797.78	500	15671.99	1000	15918.29
1260 (5)	20	10340.9	50	9483.38	100	9187.74	200	9171.245	500	8797.718	1000	8918.793
1260 (6)	20	4219.25	50	3842.58	100	3660.25	200	3571.86	500	3349.668	1000	3405.025
Aroclor 1260	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
Decachlorobiphenyl (Surr)	10	77398.7	25	73802.36	50	77245.8	100	78164.17	250	72398.32	500	81720.55

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0C2703
Instrument: DUALECD6R
Matrix:
Calibration Date: 03/27/20 12:16

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	4462.945										
1016 (2)	1500	8062.827										
1016 (3)	1500	3733.251										
1016 (4)	1500	3866.288										
1016 (5)	1500	4281.548										
1016 (6)	1500	4192.008										
Aroclor 1016	1500	0										
1254 (1)											500	7594.684
1254 (2)											500	11035.24
1254 (3)											500	12177.66
1254 (4)											500	8303.614
1254 (5)											500	8979.726
1254 (6)											500	2544.492
Aroclor 1254											500	0
1260 (1)	1500	8727.453										
1260 (2)	1500	10525.61										
1260 (3)	1500	10755.25										
1260 (4)	1500	15978.64										
1260 (5)	1500	9020.36										
1260 (6)	1500	3354.959										
Aroclor 1260	1500	0										
Decachlorobiphenyl (Surr)	800	85652.12			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 - 4d. Elutriate Testing
Calibration: A0C2703
Instrument: DUALECD6R
Matrix:
Calibration Date: 03/27/20 12:16

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	8447.632										
1262 (2)	500	11472.01										
1262 (3)	500	8780.394										
1262 (4)	500	17807.44										
1262 (5)	500	10706.49										
1262 (6)	500	4783.976										
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 - 4d. Elutriate Testi
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R014.D		
Sequence:	0C26028	Inject Date:	03/26/20
Lab Sample ID:	0C26028-ICV1	Inject Time:	15:53

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	485	-3.0	70 - 130
Aroclor 1260	500	503	0.6	70 - 130
Decachlorobiphenyl (Surr)	200	202	0.9	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R022.D		
Sequence:	0C26028	Inject Date:	03/26/20
Lab Sample ID:	0C26028-ICV2	Inject Time:	18:15

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	954	-4.6	70 - 130
Aroclor 1254	500	504	0.9	70 - 130
Decachlorobiphenyl (Surr)	80.0	80.5	0.7	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R023.D		
Sequence:	0C26028	Inject Date:	03/26/20
Lab Sample ID:	0C26028-ICV3	Inject Time:	18:33

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	528	5.5	70 - 130
Aroclor 1262	500	494	-1.2	70 - 130
Decachlorobiphenyl (Surr)	80.0	84.5	5.6	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R024.D		
Sequence:	0C26028	Inject Date:	03/26/20
Lab Sample ID:	0C26028-ICV4	Inject Time:	18:50

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	515	3.1	70 - 130
Aroclor 1268	500	501	0.3	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R025.D		
Sequence:	0C26028	Inject Date:	03/26/20
Lab Sample ID:	0C26028-ICV5	Inject Time:	19:08

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	545	8.9	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R015.D	Calibration Date:	03/27/20 12:16
Sequence:	0F09029	Injection Date:	06/09/20
Lab Sample ID:	0F09029-CCV2	Injection Time:	11:34

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	506				1.2	20
Aroclor 1260	Ave	500	570				14.0	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 - 4d. Elutriate Testing
Instrument ID:	DUALECD6R	Calibration:	A0C2703
Lab File ID:	ECD6R021.D	Calibration Date:	03/27/20 12:16
Sequence:	0F09029	Injection Date:	06/09/20
Lab Sample ID:	0F09029-CCV3	Injection Time:	13:20

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	544				8.7	20
Aroclor 1260	Ave	500	599				19.7	20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0C26028	Instrument:	DUALECD6R
Matrix:	Water	Calibration:	A0C2703

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0C26028-ICV1)			Lab File ID: ECD6R014.D		Analyzed: 03/26/20 15:53			
Decachlorobiphenyl (Surr)	200	101	70 - 130	11.373	11.36529	0.0077	+/-1.0	
Initial Cal Check (0C26028-ICV2)			Lab File ID: ECD6R022.D		Analyzed: 03/26/20 18:15			
Decachlorobiphenyl (Surr)	80.0	101	70 - 130	11.366	11.36529	0.0007	+/-1.0	
Initial Cal Check (0C26028-ICV3)			Lab File ID: ECD6R023.D		Analyzed: 03/26/20 18:33			
Decachlorobiphenyl (Surr)	80.0	106	70 - 130	11.362	11.36529	-0.0033	+/-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 - 4d. Elutriate Testing
Sequence:	0F09029	Instrument:	DUALECD6R
Matrix:	Water	Calibration:	A0C2703

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0F09029-CCV2)			Lab File ID: ECD6R015.D		Analyzed: 06/09/20 11:34			
Decachlorobiphenyl (Surr)	250	104	80 - 120	11.302	11.36529	-0.0633	+/-1.0	
Calibration Blank (0F09029-CCB2)			Lab File ID: ECD6R016.D		Analyzed: 06/09/20 11:52			
Decachlorobiphenyl (Surr)	100	114	40 - 135	11.302	11.36529	-0.0633	+/-1.0	
Blank (0060161-BLK1)			Lab File ID: ECD6R017.D		Analyzed: 06/09/20 12:10			
Decachlorobiphenyl (Surr)	0.000455	66	40 - 135	11.301	11.36529	-0.0643	+/-1.0	
LCS (0060161-BS1)			Lab File ID: ECD6R018.D		Analyzed: 06/09/20 12:27			
Decachlorobiphenyl (Surr)	0.000500	66	40 - 135	11.302	11.36529	-0.0633	+/-1.0	
LCS Dup (0060161-BSD1)			Lab File ID: ECD6R019.D		Analyzed: 06/09/20 12:45			
Decachlorobiphenyl (Surr)	0.000500	65	40 - 135	11.302	11.36529	-0.0633	+/-1.0	
PDI-026SW-A-200521-01 (A0E0669-01)			Lab File ID: ECD6R020.D		Analyzed: 06/09/20 13:03			
Decachlorobiphenyl (Surr)	0.000481	79	40 - 135	11.302	11.36529	-0.0633	+/-1.0	
Calibration Check (0F09029-CCV3)			Lab File ID: ECD6R021.D		Analyzed: 06/09/20 13:20			
Decachlorobiphenyl (Surr)	250	111	80 - 120	11.301	11.36529	-0.0643	+/-1.0	
Calibration Blank (0F09029-CCB3)			Lab File ID: ECD6R022.D		Analyzed: 06/09/20 13:38			
Decachlorobiphenyl (Surr)	100	117	40 - 135	11.302	11.36529	-0.0633	+/-1.0	

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	06/04/20 07:32	13.75	365.00	06/09/20 13:03	5.23	40.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8081B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM
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 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Aldrin [2C]	0.00000500	0.0000100	mg/L
cis-Chlordane [2C]	0.00000500	0.0000100	mg/L
trans-Chlordane [2C]	0.00000500	0.0000100	mg/L
4,4'-DDD [2C]	0.00000500	0.0000100	mg/L
4,4'-DDE [2C]	0.00000500	0.0000100	mg/L
4,4'-DDT [2C]	0.00000500	0.0000100	mg/L
cis-Nonachlor [2C]	0.00000500	0.0000100	mg/L
trans-Nonachlor [2C]	0.00000500	0.0000100	mg/L
2,4'-DDD [2C]	0.00000500	0.0000100	mg/L
2,4'-DDE [2C]	0.00000500	0.0000100	mg/L
2,4'-DDT [2C]	0.00000500	0.0000100	mg/L
Hexachlorobenzene	0.0000150	0.0000300	mg/L
Hexachlorobutadiene	0.00000500	0.0000100	mg/L
Oxychlordane [2C]	0.00000500	0.0000100	mg/L

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

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-026SW-A-200521-01

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	WS	Laboratory ID:	A0E0669-01	File ID:	ECD3-06022037.D
Sampled:	05/21/20 13:30	Prepared:	05/28/20 07:17	Analyzed:	06/03/20 02:35
		Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1030 mL / 5 mL

Batch: 0050955 Sequence: 0F02064 Calibration: A0D1308 Instrument: DUALECD3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	Q
309-00-2	Aldrin [2C]	1	0.00000485	U
5103-71-9	cis-Chlordane [2C]	1	0.00000485	U
5103-74-2	trans-Chlordane [2C]	1	0.00000485	U
72-54-8	4,4'-DDD [2C]	1	0.00000485	U
72-55-9	4,4'-DDE [2C]	1	0.00000485	U
50-29-3	4,4'-DDT [2C]	1	0.00000485	U
5103-73-1	cis-Nonachlor [2C]	1	0.00000485	U
53-19-0	2,4'-DDD [2C]	1	0.00000485	U
3424-82-6	2,4'-DDE [2C]	1	0.00000485	U
789-02-6	2,4'-DDT [2C]	1	0.00000485	U
27304-13-8	Oxychlordane [2C]	1	0.00000485	U
39765-80-5	trans-Nonachlor [2C]	1	0.00000485	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	0.000485	0.000265	55	25 - 140	
Decachlorobiphenyl (Surr) [2C]	0.000485	0.000393	81	30 - 135	

* 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 - 4d. Elutriate Testing
Batch: 0050955 Batch Matrix: Water
Preparation: EPA 3510C (Neutral pH)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050955-BLK1	ECD3-06022029.D	05/28/20 07:17	
LCS	0050955-BS1	ECD3-06022030.D	05/28/20 07:17	
LCS	0050955-BS2	ECD3-06022035.D	05/28/20 07:17	
LCS Dup	0050955-BSD1	ECD3-06022031.D	05/28/20 07:17	
LCS Dup	0050955-BSD2	ECD3-06022036.D	05/28/20 07:17	
PDI-026SW-A-200521-01	A0E0669-01	ECD3-06022037.D	05/28/20 07:17	

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 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0050955-BLK1	File ID:	ECD3-06022029.D
Prepared:	05/28/20 07:17	Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1100 mL / 5 mL
Analyzed:	06/03/20 00:18	Instrument:	DUALECD3		
Batch:	0050955	Sequence:	0F02064	Calibration:	A0D1308

CAS NO.	COMPOUND	CONC. (mg/L)	Q
309-00-2	Aldrin [2C]	0.00000455	U
5103-71-9	cis-Chlordane [2C]	0.00000455	U
5103-74-2	trans-Chlordane [2C]	0.00000455	U
72-54-8	4,4'-DDD [2C]	0.00000455	U
72-55-9	4,4'-DDE [2C]	0.00000455	U
50-29-3	4,4'-DDT [2C]	0.00000455	U
5103-73-1	cis-Nonachlor [2C]	0.00000455	U
53-19-0	2,4'-DDD [2C]	0.00000455	U
3424-82-6	2,4'-DDE [2C]	0.00000455	U
789-02-6	2,4'-DDT [2C]	0.00000455	U
27304-13-8	Oxychlordane [2C]	0.00000455	U
39765-80-5	trans-Nonachlor [2C]	0.00000455	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	0.000455	0.000307	67	25 - 140	
Decachlorobiphenyl (Surr) [2C]	0.000455	0.000330	73	30 - 135	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0050955	Laboratory ID:	0050955-BS1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 5 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Aldrin [2C]	0.000500	0.000258	52	45 - 134
cis-Chlordane [2C]	0.000500	0.000469	94	60 - 129
trans-Chlordane [2C]	0.000500	0.000467	93	56 - 136
4,4'-DDD [2C]	0.000500	0.000485	97	56 - 143
4,4'-DDE [2C]	0.000500	0.000459	92	57 - 135
4,4'-DDT [2C]	0.000500	0.000575	115	51 - 143

* = 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 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0050955	Laboratory ID:	0050955-BSD1
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 5 mL

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS
Aldrin [2C]	0.000500	0.000276	55	7	30	45 - 134
cis-Chlordane [2C]	0.000500	0.000439	88	7	30	60 - 129
trans-Chlordane [2C]	0.000500	0.000454	91	3	30	56 - 136
4,4'-DDD [2C]	0.000500	0.000464	93	4	30	56 - 143
4,4'-DDE [2C]	0.000500	0.000433	87	6	30	57 - 135
4,4'-DDT [2C]	0.000500	0.000542	108	6	30	51 - 143

* = 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 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0050955	Laboratory ID:	0050955-BS2
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 5 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
cis-Nonachlor [2C]	0.000500	0.000510	102	75 - 125
2,4'-DDD [2C]	0.000500	0.000498	100	67 - 142
2,4'-DDE [2C]	0.000500	0.000460	92	63 - 135
2,4'-DDT [2C]	0.000500	0.000565	113	76 - 156
Oxychlordane [2C]	0.000500	0.000468	94	62 - 125
trans-Nonachlor [2C]	0.000500	0.000488	98	67 - 127

* = 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 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0050955	Laboratory ID:	0050955-BSD2
Preparation:	EPA 3510C (Neutral pH)	Initial/Final:	1000 mL / 5 mL

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	
cis-Nonachlor [2C]	0.000500	0.000526	105	3	30	75 - 125
2,4'-DDD [2C]	0.000500	0.000489	98	2	30	67 - 142
2,4'-DDE [2C]	0.000500	0.000471	94	2	30	63 - 135
2,4'-DDT [2C]	0.000500	0.000558	112	1	30	76 - 156
Oxychlordane [2C]	0.000500	0.000477	95	2	30	62 - 125
trans-Nonachlor [2C]	0.000500	0.000492	98	0.9	30	67 - 127

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0D10031	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0D10031-ICB1	ECD3-04102004.D	04/10/20 12:05
Cal Standard	0D10031-CAL1	ECD3-04102005.D	04/10/20 12:22
Cal Standard	0D10031-CAL2	ECD3-04102006.D	04/10/20 12:39
Cal Standard	0D10031-CAL3	ECD3-04102007.D	04/10/20 12:56
Cal Standard	0D10031-CAL4	ECD3-04102008.D	04/10/20 13:14
Cal Standard	0D10031-CAL5	ECD3-04102009.D	04/10/20 13:31
Cal Standard	0D10031-CAL6	ECD3-04102010.D	04/10/20 13:48
Cal Standard	0D10031-CAL7	ECD3-04102011.D	04/10/20 14:05
Cal Standard	0D10031-CAL8	ECD3-04102012.D	04/10/20 14:22
Cal Standard	0D10031-CAL9	ECD3-04102013.D	04/10/20 14:40
Initial Cal Check	0D10031-ICV1	ECD3-04102015.D	04/10/20 15:14
Cal Standard	0D10031-CALA	ECD3-04102016.D	04/10/20 15:31
Cal Standard	0D10031-CALB	ECD3-04102017.D	04/10/20 15:48
Cal Standard	0D10031-CALC	ECD3-04102018.D	04/10/20 16:06
Cal Standard	0D10031-CALD	ECD3-04102019.D	04/10/20 16:23
Cal Standard	0D10031-CALE	ECD3-04102020.D	04/10/20 16:40
Cal Standard	0D10031-CALF	ECD3-04102021.D	04/10/20 16:57
Cal Standard	0D10031-CALG	ECD3-04102022.D	04/10/20 17:14
Cal Standard	0D10031-CALH	ECD3-04102023.D	04/10/20 17:31
Cal Standard	0D10031-CALI	ECD3-04102024.D	04/10/20 17:49
Initial Cal Check	0D10031-ICV2	ECD3-04102026.D	04/10/20 18:23
Cal Standard	0D10031-CALJ	ECD3-04102027.D	04/10/20 18:40
Cal Standard	0D10031-CALK	ECD3-04102028.D	04/10/20 18:57
Cal Standard	0D10031-CALL	ECD3-04102029.D	04/10/20 19:14
Cal Standard	0D10031-CALM	ECD3-04102030.D	04/10/20 19:31
Cal Standard	0D10031-CALN	ECD3-04102031.D	04/10/20 19:49
Cal Standard	0D10031-CALO	ECD3-04102032.D	04/10/20 20:06
Cal Standard	0D10031-CALP	ECD3-04102033.D	04/10/20 20:23
Initial Cal Check	0D10031-ICV3	ECD3-04102035.D	04/10/20 20:57
Cal Standard	0D10031-CALQ	ECD3-04102036.D	04/10/20 21:14
Cal Standard	0D10031-CALR	ECD3-04102037.D	04/10/20 21:31
Cal Standard	0D10031-CALS	ECD3-04102038.D	04/10/20 21:48
Cal Standard	0D10031-CALT	ECD3-04102039.D	04/10/20 22:05

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0D10031	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0D10031-CALU	ECD3-04102040.D	04/10/20 22:22
Cal Standard	0D10031-CALV	ECD3-04102041.D	04/10/20 22:39
Cal Standard	0D10031-CALW	ECD3-04102042.D	04/10/20 22:56
Initial Cal Check	0D10031-ICV4	ECD3-04102044.D	04/10/20 23:30

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0F02064	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0F02064-CCV3	ECD3-06022019.D	06/02/20 21:28
Calibration Check	0F02064-CCV4	ECD3-06022020.D	06/02/20 21:45
Calibration Blank	0F02064-CCB2	ECD3-06022021.D	06/02/20 22:02
Blank	0050955-BLK1	ECD3-06022029.D	06/03/20 00:18
LCS	0050955-BS1	ECD3-06022030.D	06/03/20 00:35
LCS Dup	0050955-BSD1	ECD3-06022031.D	06/03/20 00:52
Calibration Check	0F02064-CCV5	ECD3-06022032.D	06/03/20 01:09
Calibration Check	0F02064-CCV6	ECD3-06022033.D	06/03/20 01:26
Calibration Blank	0F02064-CCB3	ECD3-06022034.D	06/03/20 01:43
LCS	0050955-BS2	ECD3-06022035.D	06/03/20 02:01
LCS Dup	0050955-BSD2	ECD3-06022036.D	06/03/20 02:18
PDI-026SW-A-200521-01	A0E0669-01	ECD3-06022037.D	06/03/20 02:35
Calibration Check	0F02064-CCV7	ECD3-06022038.D	06/03/20 02:52
Calibration Check	0F02064-CCV8	ECD3-06022039.D	06/03/20 03:09
Calibration Blank	0F02064-CCB4	ECD3-06022040.D	06/03/20 03:26

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.

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0D1308

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: DUALECD3

Calibration Date: 04/13/20 15:25

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
Aldrin	0.5	184140	1	165393	2	165474.5	5	167609	10	166535.9	25	164776.2
Aldrin [2C]	0.5	152252	1	136778	2	134459	5	139976	10	131640.3	25	129900.5
alpha-BHC	0.5	212180	1	198771	2	193015	5	202354.6	10	199206.2	25	198815.6
alpha-BHC [2C]	0.5	174904	1	160189	2	159064.5	5	161898.2	10	159242.2	25	155676.8
beta-BHC	0.5	74422	1	66101	2	66730	5	65354.8	10	62177.5	25	67235.84
beta-BHC [2C]	0.5	74340	1	66254	2	63956	5	60588.2	10	58311.8	25	57672.76
delta-BHC	0.5	132536	1	123295	2	129015.5	5	133858.8	10	134881.5	25	140751.3
delta-BHC [2C]	0.5	132730	1	118368	2	117018	5	124171.8	10	122343.2	25	124114.8
gamma-BHC (Lindane)	0.5	182390	1	162951	2	165367.5	5	172956.8	10	172229.8	25	171702.6
gamma-BHC (Lindane) [2C]	0.5	151836	1	137359	2	135523	5	134604.8	10	134925.2	25	134519.4
cis-Chlordane	0.5	197850	1	162363	2	154977.5	5	156801.8	10	148543.4	25	148142.8
cis-Chlordane [2C]	0.5	140204	1	124533	2	117626	5	117051.8	10	113181.9	25	110952.7
trans-Chlordane	0.5	175594	1	160412	2	154425.5	5	155854.6	10	150288.3	25	152617.5
trans-Chlordane [2C]	0.5	142312	1	126502	2	120345	5	121118.2	10	120226.4	25	119146.3
4,4'-DDD	0.5	135350	1	118335	2	114551	5	116080.6	10	114385.8	25	122264.2
4,4'-DDD [2C]	0.5	117444	1	101471	2	92223.5	5	93297.8	10	88969.2	25	88490.04
4,4'-DDE	0.5	153276	1	132356	2	132289.5	5	142562.8	10	138247.6	25	147017
4,4'-DDE [2C]	0.5	128668	1	115967	2	115455	5	116955.6	10	113728.8	25	115097.3
4,4'-DDT	0.5	74814	1	73450	2	72721	5	80515	10	87548.3	25	98250.52
4,4'-DDT [2C]	0.5	49558	1	49721	2	44665	5	52033	10	57869.4	25	59859.88
Dieldrin	0.5	173264	1	160736	2	155993	5	161051.4	10	158807.8	25	159463.2
Dieldrin [2C]	0.5	137960	1	120867	2	118385.5	5	120454.6	10	119669.8	25	116792.8
Endosulfan I	0.5	164870	1	145356	2	142145.5	5	142488.2	10	138620.8	25	138658.2
Endosulfan I [2C]	0.5	131686	1	110124	2	109911	5	109225	10	105649.2	25	104461.3
Endosulfan II	0.5	134152	1	119697	2	116720.5	5	117887.2	10	120763.3	25	118645.2
Endosulfan II [2C]	0.5	110460	1	95182	2	91305.5	5	90633.6	10	87642.3	25	88067.72
Endosulfan sulfate	0.5	144912	1	126416	2	116556	5	116065.4	10	114153.6	25	113639.2
Endosulfan sulfate [2C]	0.5	100318	1	88344	2	83213	5	81418.8	10	79687.5	25	80804.44
Endrin	0.5	126738	1	118800	2	116591.5	5	120154.8	10	120041.2	25	121915.5
Endrin [2C]	0.5	94158	1	86799	2	83563.5	5	83951.2	10	86201.6	25	85150.44
Endrin Aldehyde	0.5	147106	1	127313	2	118903	5	109140.4	10	104313.9	25	102924.9

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0D1308

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: DUALECD3

Calibration Date: 04/13/20 15:25

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
Endrin Aldehyde [2C]	0.5	117464	1	100085	2	95869.5	5	84823.8	10	81144.2	25	78098.4
Endrin ketone	0.5	166870	1	152949	2	142668	5	137743.4	10	138109.9	25	137839
Endrin ketone [2C]	0.5	114732	1	100622	2	94491.5	5	92828	10	94233.5	25	90012.16
Heptachlor	0.5	176844	1	162313	2	155867.5	5	159909.2	10	162918.5	25	159366.3
Heptachlor [2C]	0.5	127266	1	116127	2	111659.5	5	112938.6	10	110562.5	25	110798.2
Heptachlor epoxide	0.5	182654	1	160396	2	155926	5	156117.4	10	152522.9	25	150160.1
Heptachlor epoxide [2C]	0.5	139660	1	122009	2	120534.5	5	118154.2	10	117543.8	25	113449
Methoxychlor	0.5	38822	1	39011	2	37153	5	40945.4	10	42774.2	25	44585.88
Methoxychlor [2C]	0.5	23818	1	24923	2	23409	5	25482	10	26936.3	25	27566.36
2,4,5,6-TCMX (Surr)	0.5	171498	1	150599	2	147314.5	5	145504.8	10	144995.5	25	144829.2
2,4,5,6-TCMX (Surr) [2C]	0.5	146014	1	127191	2	121084.5	5	120362.4	10	116465.1	25	111743.8
Decachlorobiphenyl (Surr)	0.5	157490	1	135418	2	124797	5	117403.2	10	113052.7	25	109084.3
Decachlorobiphenyl (Surr) [2C]	0.5	100898	1	81619	2	76587.5	5	72873.2	10	70173.7	25	66379.4

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0D1308
Instrument: DUALECD3
Matrix:
Calibration Date: 04/13/20 15:25

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
Aldrin	50	157247.8	100	168746.4	200	168845.7						
Aldrin [2C]	50	125523.1	100	126262.6	200	119278.9						
alpha-BHC	50	197134.3	100	206903.1	200	212271.2						
alpha-BHC [2C]	50	147648.4	100	150540.5	200	143596.7						
beta-BHC	50	65516.58	100	71977.43	200	74484.35						
beta-BHC [2C]	50	56399.3	100	58382.73	200	56843.3						
delta-BHC	50	144012.4	100	156543.9	200	168415.8						
delta-BHC [2C]	50	118152	100	123279	200	119945.6						
gamma-BHC (Lindane)	50	167806	100	178521.3	200	180212.7						
gamma-BHC (Lindane) [2C]	50	127901.1	100	131175.3	200	124684.5						
cis-Chlordane	50	142665.1	100	151038.4	200	150346.8						
cis-Chlordane [2C]	50	104727.9	100	109601.3	200	104567.5						
trans-Chlordane	50	149316.1	100	159386.6	200	158331.6						
trans-Chlordane [2C]	50	111038.2	100	116190.2	200	108545.9						
4,4'-DDD	50	116278.3	100	124287.9	200	131111.9						
4,4'-DDD [2C]	50	88654.62	100	91583.53	200	87163.65						
4,4'-DDE	50	143019.7	100	152928.6	200	156575						
4,4'-DDE [2C]	50	108553	100	113676.3	200	108264.3						
4,4'-DDT	50	101815.7	100	111186.7	200	123615.3						
4,4'-DDT [2C]	50	63783.72	100	70159.04	200	75293.8						
Dieldrin	50	152166.6	100	163001.2	200	161932.3						
Dieldrin [2C]	50	113445.2	100	118534.5	200	111578.9						
Endosulfan I	50	134635.2	100	140724.2	200	144197.9						
Endosulfan I [2C]	50	99024.5	100	101617.3	200	96144.6						
Endosulfan II	50	114413.2	100	121472.9	200	125703.9						
Endosulfan II [2C]	50	86137.36	100	87590.68	200	88440.6						
Endosulfan sulfate	50	113633.5	100	118825.6	200	119936.7						
Endosulfan sulfate [2C]	50	78349.76	100	83684.47	200	81780.85						
Endrin	50	121777.1	100	128781	200	135468.7						
Endrin [2C]	50	83375.74	100	86909.42	200	87941.3						
Endrin Aldehyde	50	99327.56	100	102139.6	200	106623.5						

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0D1308
Instrument: DUALECD3
Matrix:
Calibration Date: 04/13/20 15:25

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
Endrin Aldehyde [2C]	50	76078.32	100	78596.9	200	76627.15						
Endrin ketone	50	136874.3	100	139039.4	200	144329.2						
Endrin ketone [2C]	50	90754.94	100	92348.5	200	91058.55						
Heptachlor	50	155736	100	169321.2	200	171457.9						
Heptachlor [2C]	50	108642.7	100	109980.4	200	110848.6						
Heptachlor epoxide	50	145888.1	100	153819.6	200	149964.5						
Heptachlor epoxide [2C]	50	108937.7	100	112587.4	200	106354.4						
Methoxychlor	50	44253.58	100	51956.02	200	57315.1						
Methoxychlor [2C]	50	28311.8	100	33102.7	200	36552.59						
cis-Nonachlor							0.5	211862	1	197292	2	171080.5
cis-Nonachlor [2C]							0.5	166292	1	153334	2	131464.5
2,4'-DDD							0.5	113088	1	106028	2	93679
2,4'-DDD [2C]							0.5	101166	1	93331	2	79054
2,4'-DDE							0.5	119766	1	114378	2	98851.5
2,4'-DDE [2C]							0.5	109508	1	102014	2	87910.5
2,4'-DDT							0.5	83314	1	77977	2	66988.5
2,4'-DDT [2C]							0.5	64868	1	56936	2	48302
Hexachlorobenzene							0.5	181782	1	171487	2	147499.5
Hexachlorobenzene [2C]							0.5	157232	1	145117	2	124192
Hexachlorobutadiene							0.5	224604	1	210953	2	190720.5
Hexachlorobutadiene [2C]							0.5	225510	1	210162	2	186415
Mirex							0.5	164798	1	147950	2	124450.5
Mirex [2C]							0.5	120872	1	100894	2	83572
Oxychlordane							0.5	174166	1	167657	2	148001.5
Oxychlordane [2C]							0.5	135922	1	131841	2	113060
trans-Nonachlor							0.5	194530	1	189735	2	159930
trans-Nonachlor [2C]							0.5	153122	1	145443	2	125710
2,4,5,6-TCMX (Surr)	50	138171.2	100	145089.6	200	144961.7						
2,4,5,6-TCMX (Surr) [2C]	50	107016.2	100	109426.7	200	102072.5						
Decachlorobiphenyl (Surr)	50	103451.8	100	109675.1	200	112153.1						
Decachlorobiphenyl (Surr) [2C]	50	63540.54	100	64967.05	200	62203.3						

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0D1308
Instrument: DUALECD3
Matrix:
Calibration Date: 04/13/20 15:25

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
cis-Nonachlor	5	155990.6	10	152456.2	25	157278.6	50	151160.5	100	156163.1	200	159010.7
cis-Nonachlor [2C]	5	118841.8	10	113348.7	25	117597.7	50	113527.5	100	113782.1	200	106864.8
2,4'-DDD	5	80488.4	10	80976	25	84049.12	50	80039.06	100	82008.34	200	83410
2,4'-DDD [2C]	5	68430.8	10	66550.3	25	65943.16	50	64103.9	100	63894.5	200	63526.25
2,4'-DDE	5	89799.2	10	88908.7	25	94809.64	50	90378.34	100	94201.36	200	95552.3
2,4'-DDE [2C]	5	79088.8	10	77610.5	25	77530.4	50	73197.7	100	73192.58	200	71315.7
2,4'-DDT	5	68792.2	10	66539.8	25	75635.36	50	76121.52	100	79068.36	200	83078.35
2,4'-DDT [2C]	5	48078.6	10	47215.9	25	53266.96	50	52898.36	100	54268.18	200	56923.65
Hexachlorobenzene	5	134866	10	131903.8	25	136433.2	50	133239.8	100	139059	200	139586
Hexachlorobenzene [2C]	5	110682.6	10	110177	25	109647	50	103538	100	103422.6	200	100533.2
Hexachlorobutadiene	5	171560.4	10	168958.7	25	169459.9	50	174713.5	100	172071.4	200	153274.7
Hexachlorobutadiene [2C]	5	169658.4	10	163264.7	25	153456.6	50	153220.6	100	148430.3	200	125489.5
Mirex	5	104268.4	10	97651.9	25	97837.36	50	94446.82	100	97967.94	200	98000.45
Mirex [2C]	5	73917	10	67233.6	25	68842.64	50	64118.6	100	66672.67	200	64645.15
Oxychlordane	5	129354.4	10	130002.6	25	131228.7	50	124815.6	100	130632.4	200	133475
Oxychlordane [2C]	5	98060.2	10	99299.4	25	98497.2	50	94903.38	100	94238.97	200	94401.65
trans-Nonachlor	5	144406.6	10	143140.3	25	144502.8	50	138196.9	100	148419.1	200	146201.5
trans-Nonachlor [2C]	5	111438.8	10	108872.4	25	110739.4	50	104967.2	100	104611.1	200	100222

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102015.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV1	Inject Time:	15:14

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aldrin	50.0	49.7	-0.7	70 - 130
Aldrin [2C]	50.0	48.0	-3.9	70 - 130
alpha-BHC	50.0	49.4	-1.2	70 - 130
alpha-BHC [2C]	50.0	48.8	-2.4	70 - 130
beta-BHC	50.0	50.6	1.2	70 - 130
beta-BHC [2C]	50.0	47.1	-5.8	70 - 130
delta-BHC	50.0	51.8	3.7	70 - 130
delta-BHC [2C]	50.0	50.0	0.02	70 - 130
gamma-BHC (Lindane)	50.0	51.9	3.8	70 - 130
gamma-BHC (Lindane) [2C]	50.0	49.8	-0.5	70 - 130
cis-Chlordane	50.0	48.4	-3.2	70 - 130
cis-Chlordane [2C]	50.0	47.0	-6.0	70 - 130
trans-Chlordane	50.0	49.0	-1.9	70 - 130
trans-Chlordane [2C]	50.0	47.4	-5.2	70 - 130
4,4'-DDD	50.0	51.3	2.6	70 - 130
4,4'-DDD [2C]	50.0	47.0	-6.0	70 - 130
4,4'-DDE	50.0	52.1	4.2	70 - 130
4,4'-DDE [2C]	50.0	47.8	-4.4	70 - 130
4,4'-DDT	50.0	52.9	5.9	70 - 130
4,4'-DDT [2C]	50.0	54.0	8.0	70 - 130
Dieldrin	50.0	49.9	-0.2	70 - 130
Dieldrin [2C]	50.0	48.4	-3.2	70 - 130
Endosulfan I	50.0	49.2	-1.6	70 - 130
Endosulfan I [2C]	50.0	46.1	-7.8	70 - 130
Endosulfan II	50.0	52.3	4.6	70 - 130
Endosulfan II [2C]	50.0	51.4	2.7	70 - 130
Endosulfan sulfate	50.0	51.2	2.3	70 - 130
Endosulfan sulfate [2C]	50.0	51.4	2.9	70 - 130
Endrin	50.0	52.0	4.0	70 - 130
Endrin [2C]	50.0	52.4	4.8	70 - 130
Endrin Aldehyde	50.0	48.9	-2.2	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102015.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV1	Inject Time:	15:14

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Endrin Aldehyde [2C]	50.0	50.2	0.5	70 - 130
Endrin ketone	50.0	48.7	-2.7	70 - 130
Endrin ketone [2C]	50.0	48.8	-2.3	70 - 130
Heptachlor	50.0	48.2	-3.7	70 - 130
Heptachlor [2C]	50.0	48.4	-3.2	70 - 130
Heptachlor epoxide	50.0	48.1	-3.7	70 - 130
Heptachlor epoxide [2C]	50.0	48.2	-3.6	70 - 130
Methoxychlor	50.0	51.7	3.4	70 - 130
Methoxychlor [2C]	50.0	52.3	4.6	70 - 130
2,4,5,6-TCMX (Surr)	50.0	48.3	-3.4	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	51.1	2.2	70 - 130
Decachlorobiphenyl (Surr)	50.0	50.0	0.01	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	49.8	-0.5	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102026.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV2	Inject Time:	18:23

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
cis-Nonachlor	50.0	51.4	2.7	70 - 130
cis-Nonachlor [2C]	50.0	52.3	4.7	70 - 130
2,4'-DDD	50.0	50.3	0.5	70 - 130
2,4'-DDD [2C]	50.0	49.4	-1.3	70 - 130
2,4'-DDE	50.0	51.5	2.9	70 - 130
2,4'-DDE [2C]	50.0	51.6	3.3	70 - 130
2,4'-DDT	50.0	59.0	17.9	70 - 130
2,4'-DDT [2C]	50.0	58.0	16.0	70 - 130
Hexachlorobenzene	50.0	51.2	2.4	70 - 130
Hexachlorobenzene [2C]	50.0	52.9	5.8	70 - 130
Hexachlorobutadiene	50.0	46.4	-7.2	70 - 130
Hexachlorobutadiene [2C]	50.0	46.0	-8.0	70 - 130
Mirex	50.0	50.3	0.6	70 - 130
Mirex [2C]	50.0	50.3	0.6	70 - 130
Oxychlordane	50.0	51.0	2.0	70 - 130
Oxychlordane [2C]	50.0	52.0	4.0	70 - 130
trans-Nonachlor	50.0	52.0	4.1	70 - 130
trans-Nonachlor [2C]	50.0	51.3	2.7	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 - 4d. Elutriate Testi
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102035.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV3	Inject Time:	20:57

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Chlordane (Technical)	500	542	8.5	65 - 135
Chlordane (Technical) [2C]	500	542	8.4	65 - 135

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-04102044.D		
Sequence:	0D10031	Inject Date:	04/10/20
Lab Sample ID:	0D10031-ICV4	Inject Time:	23:30

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Toxaphene (Total)	500	525	4.9	65 - 135
Toxaphene (Total) [2C]	500	531	6.2	65 - 135

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022019.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/02/20
Lab Sample ID:	0F02064-CCV3	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	
Aldrin	Ave	100	114		167640.9	190335.9	13.5	20
Aldrin [2C]	Ave	100	100		132896.7	133477.7	0.4	20
alpha-BHC	Ave	100	109		202294.6	221103.6	9.3	20
alpha-BHC [2C]	Ave	100	96.1		156973.4	150862.8	-3.9	20
beta-BHC	Ave	100	107		68222.17	72922.94	6.9	20
beta-BHC [2C]	Ave	100	87.6		61416.45	53815.59	-12.4	20
delta-BHC	Ave	100	113		140367.8	158587.6	13.0	20
delta-BHC [2C]	Ave	100	93.0		122235.8	113628.9	-7.0	20
gamma-BHC (Lindane)	Ave	100	112		172682	192962.6	11.7	20
gamma-BHC (Lindane) [2C]	Ave	100	97.3		134725.4	131148.2	-2.7	20
cis-Chlordane	Ave	100	106		156969.9	166933.7	6.3	20
cis-Chlordane [2C]	Ave	100	101		115827.3	116527.6	0.6	20
trans-Chlordane	Ave	100	108		157358.5	169860.9	7.9	20
trans-Chlordane [2C]	Ave	100	99.4		120602.7	119939.1	-0.6	20
4,4'-DDD	Ave	100	104		121405	126003.9	3.8	20
4,4'-DDD [2C]	Ave	100	95.4		94366.37	89980.85	-4.6	20
4,4'-DDE	Ave	100	111		144252.5	160571.8	11.3	20
4,4'-DDE [2C]	Ave	100	97.8		115151.7	112666.4	-2.2	20
4,4'-DDT	XXX	100	94.6	-5.4				20
4,4'-DDT [2C]	XXX	100	99.0	-1.0				20
Dieldrin	Ave	100	113		160712.8	181587.9	13.0	20
Dieldrin [2C]	Ave	100	100		119743.1	119964.5	0.2	20
Endosulfan I	Ave	100	106		143521.8	152844.9	6.5	20
Endosulfan I [2C]	Ave	100	101		107538.1	108374.4	0.8	20
Endosulfan II	Ave	100	107		121050.6	129136.7	6.7	20
Endosulfan II [2C]	Ave	100	101		91717.75	92825.96	1.2	20
Endosulfan sulfate	Ave	100	105		120459.8	126620	5.1	20
Endosulfan sulfate [2C]	Ave	100	107		84177.87	90248.36	7.2	20
Endrin	Ave	100	84.9		123363.1	104721.7	-15.1	20
Endrin [2C]	Ave	100	78.7		86450.02	68065.15	-21.3*	20

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022019.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/02/20
Lab Sample ID:	0F02064-CCV3	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	
Endrin Aldehyde	XXX	100	117	16.7				20
Endrin Aldehyde [2C]	XXX	100	114	14.4				20
Endrin ketone	Ave	100	117		144046.9	168521.6	17.0	20
Endrin ketone [2C]	Ave	100	110		95675.68	105087.1	9.8	20
Heptachlor	Ave	100	109		163748.2	179199.9	9.4	20
Heptachlor [2C]	Ave	100	104		113202.6	117188.7	3.5	20
Heptachlor epoxide	Ave	100	104		156383.2	163160.3	4.3	20
Heptachlor epoxide [2C]	Ave	100	99.8		117692.2	117509.6	-0.2	20
Methoxychlor	XXX	100	98.6	-1.4				20
Methoxychlor [2C]	XXX	100	99.5	-0.5				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 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022020.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/02/20
Lab Sample ID:	0F02064-CCV4	Injection Time:	21:45

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
cis-Nonachlor	XXX	100	104	4.5				20
cis-Nonachlor [2C]	XXX	100	104	3.9				20
2,4'-DDD	XXX	100	101	0.7				20
2,4'-DDD [2C]	XXX	100	96.4	-3.6				20
2,4'-DDE	XXX	100	102	2.2				20
2,4'-DDE [2C]	XXX	100	97.4	-2.6				20
2,4'-DDT	Ave	100	104		75279.45	78379.76	4.1	20
2,4'-DDT [2C]	Ave	100	99.3		53639.74	53237.97	-0.7	20
Hexachlorobenzene	XXX	100	99.4	-0.6				20
Hexachlorobenzene [2C]	XXX	100	86.4	-13.6				20
Hexachlorobutadiene	XXX	100	110	10.0				20
Hexachlorobutadiene [2C]	XXX	100	100	0.4				20
Mirex	XXX	100	103	3.4				20
Mirex [2C]	XXX	100	108	8.1				20
Oxychlordane	XXX	100	104	3.7				20
Oxychlordane [2C]	XXX	100	106	5.8				20
trans-Nonachlor	XXX	100	106	6.4				20
trans-Nonachlor [2C]	XXX	100	105	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 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022032.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/03/20
Lab Sample ID:	0F02064-CCV5	Injection Time:	01:09

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aldrin	Ave	50.0	57.2		167640.9	191769.7	14.4	20
Aldrin [2C]	Ave	50.0	54.8		132896.7	145587	9.5	20
alpha-BHC	Ave	50.0	56.2		202294.6	227558.8	12.5	20
alpha-BHC [2C]	Ave	50.0	51.5		156973.4	161644.4	3.0	20
beta-BHC	Ave	50.0	52.1		68222.17	71048.5	4.1	20
beta-BHC [2C]	Ave	50.0	43.5		61416.45	53395.36	-13.1	20
delta-BHC	Ave	50.0	52.5		140367.8	147331.8	5.0	20
delta-BHC [2C]	Ave	50.0	46.9		122235.8	114773.4	-6.1	20
gamma-BHC (Lindane)	Ave	50.0	57.6		172682	198784.9	15.1	20
gamma-BHC (Lindane) [2C]	Ave	50.0	52.8		134725.4	142399	5.7	20
cis-Chlordane	Ave	50.0	54.4		156969.9	170719.5	8.8	20
cis-Chlordane [2C]	Ave	50.0	54.9		115827.3	127156.3	9.8	20
trans-Chlordane	Ave	50.0	54.9		157358.5	172646.7	9.7	20
trans-Chlordane [2C]	Ave	50.0	55.2		120602.7	133035.5	10.3	20
4,4'-DDD	Ave	50.0	52.4		121405	127307.3	4.9	20
4,4'-DDD [2C]	Ave	50.0	49.7		94366.37	93880.42	-0.5	20
4,4'-DDE	Ave	50.0	54.3		144252.5	156539.4	8.5	20
4,4'-DDE [2C]	Ave	50.0	50.8		115151.7	116936.1	1.5	20
4,4'-DDT	XXX	50.0	51.7	3.3				20
4,4'-DDT [2C]	XXX	50.0	54.2	8.4				20
Dieldrin	Ave	50.0	56.4		160712.8	181123.2	12.7	20
Dieldrin [2C]	Ave	50.0	55.0		119743.1	131719.6	10.0	20
Endosulfan I	Ave	50.0	57.7		143521.8	165495.2	15.3	20
Endosulfan I [2C]	Ave	50.0	54.1		107538.1	116417.8	8.3	20
Endosulfan II	Ave	50.0	56.5		121050.6	136828.8	13.0	20
Endosulfan II [2C]	Ave	50.0	53.9		91717.75	98844.48	7.8	20
Endosulfan sulfate	Ave	50.0	56.3		120459.8	135712.8	12.7	20
Endosulfan sulfate [2C]	Ave	50.0	56.6		84177.87	95279.52	13.2	20
Endrin	Ave	50.0	39.5		123363.1	97553.56	-20.9*	20
Endrin [2C]	Ave	50.0	37.6		86450.02	65070.7	-24.7*	20

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022032.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/03/20
Lab Sample ID:	0F02064-CCV5	Injection Time:	01:09

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Endrin Aldehyde	XXX	50.0	63.0	25.9 *				20
Endrin Aldehyde [2C]	XXX	50.0	59.7	19.4				20
Endrin ketone	Ave	50.0	60.6		144046.9	174524	21.2*	20
Endrin ketone [2C]	Ave	50.0	57.0		95675.68	109129.6	14.1	20
Heptachlor	Ave	50.0	57.9		163748.2	189472.7	15.7	20
Heptachlor [2C]	Ave	50.0	57.6		113202.6	130298.6	15.1	20
Heptachlor epoxide	Ave	50.0	54.9		156383.2	171688.5	9.8	20
Heptachlor epoxide [2C]	Ave	50.0	54.2		117692.2	127685	8.5	20
Methoxychlor	XXX	50.0	51.7	3.4				20
Methoxychlor [2C]	XXX	50.0	50.1	0.3				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 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022033.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/03/20
Lab Sample ID:	0F02064-CCV6	Injection Time:	01:26

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
cis-Nonachlor	XXX	50.0	53.4	6.9				20
cis-Nonachlor [2C]	XXX	50.0	55.1	10.2				20
2,4'-DDD	XXX	50.0	51.5	3.0				20
2,4'-DDD [2C]	XXX	50.0	50.9	1.7				20
2,4'-DDE	XXX	50.0	51.0	2.1				20
2,4'-DDE [2C]	XXX	50.0	49.1	-1.8				20
2,4'-DDT	Ave	50.0	50.4		75279.45	75889.08	0.8	20
2,4'-DDT [2C]	Ave	50.0	48.9		53639.74	52437.26	-2.2	20
Hexachlorobenzene	XXX	50.0	47.5	-4.9				20
Hexachlorobenzene [2C]	XXX	50.0	40.7	-18.5				20
Hexachlorobutadiene	XXX	50.0	57.0	14.1				20
Hexachlorobutadiene [2C]	XXX	50.0	52.9	5.9				20
Mirex	XXX	50.0	53.4	6.7				20
Mirex [2C]	XXX	50.0	55.5	11.0				20
Oxychlordane	XXX	50.0	53.7	7.4				20
Oxychlordane [2C]	XXX	50.0	54.2	8.4				20
trans-Nonachlor	XXX	50.0	55.0	10.1				20
trans-Nonachlor [2C]	XXX	50.0	54.8	9.6				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 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022038.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/03/20
Lab Sample ID:	0F02064-CCV7	Injection Time:	02:52

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aldrin	Ave	100	113		167640.9	189925.9	13.3	20
Aldrin [2C]	Ave	100	103		132896.7	137195.1	3.2	20
alpha-BHC	Ave	100	113		202294.6	229077	13.2	20
alpha-BHC [2C]	Ave	100	100		156973.4	157282.2	0.2	20
beta-BHC	Ave	100	111		68222.17	75470.38	10.6	20
beta-BHC [2C]	Ave	100	90.8		61416.45	55784.03	-9.2	20
delta-BHC	Ave	100	117		140367.8	163787.8	16.7	20
delta-BHC [2C]	Ave	100	96.4		122235.8	117833.5	-3.6	20
gamma-BHC (Lindane)	Ave	100	119		172682	205060.2	18.8	20
gamma-BHC (Lindane) [2C]	Ave	100	101		134725.4	135915.4	0.9	20
cis-Chlordane	Ave	100	114		156969.9	179441.9	14.3	20
cis-Chlordane [2C]	Ave	100	105		115827.3	121763.3	5.1	20
trans-Chlordane	Ave	100	110		157358.5	172806.8	9.8	20
trans-Chlordane [2C]	Ave	100	104		120602.7	125903.5	4.4	20
4,4'-DDD	Ave	100	110		121405	134105.2	10.5	20
4,4'-DDD [2C]	Ave	100	96.3		94366.37	90877.18	-3.7	20
4,4'-DDE	Ave	100	113		144252.5	162422.7	12.6	20
4,4'-DDE [2C]	Ave	100	101		115151.7	115814.5	0.6	20
4,4'-DDT	XXX	100	105	4.7				20
4,4'-DDT [2C]	XXX	100	106	5.9				20
Dieldrin	Ave	100	117		160712.8	188527.3	17.3	20
Dieldrin [2C]	Ave	100	106		119743.1	126586.7	5.7	20
Endosulfan I	Ave	100	113		143521.8	161918.2	12.8	20
Endosulfan I [2C]	Ave	100	104		107538.1	111324.2	3.5	20
Endosulfan II	Ave	100	115		121050.6	139271.9	15.1	20
Endosulfan II [2C]	Ave	100	108		91717.75	98956.5	7.9	20
Endosulfan sulfate	Ave	100	111		120459.8	133766.3	11.0	20
Endosulfan sulfate [2C]	Ave	100	110		84177.87	92606.58	10.0	20
Endrin	Ave	100	86.6		123363.1	106774.2	-13.4	20
Endrin [2C]	Ave	100	80.6		86450.02	69636.65	-19.4	20

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022038.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/03/20
Lab Sample ID:	0F02064-CCV7	Injection Time:	02:52

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Endrin Aldehyde	XXX	100	118	18.2				20
Endrin Aldehyde [2C]	XXX	100	124	23.9 *				20
Endrin ketone	Ave	100	118		144046.9	169500	17.7	20
Endrin ketone [2C]	Ave	100	110		95675.68	105432	10.2	20
Heptachlor	Ave	100	115		163748.2	187668.9	14.6	20
Heptachlor [2C]	Ave	100	110		113202.6	124343.8	9.8	20
Heptachlor epoxide	Ave	100	109		156383.2	170354.5	8.9	20
Heptachlor epoxide [2C]	Ave	100	105		117692.2	123589	5.0	20
Methoxychlor	XXX	100	102	2.4				20
Methoxychlor [2C]	XXX	100	102	2.4				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 - 4d. Elutriate Testing
Instrument ID:	DUALECD3	Calibration:	A0D1308
Lab File ID:	ECD3-06022039.D	Calibration Date:	04/13/20 15:25
Sequence:	0F02064	Injection Date:	06/03/20
Lab Sample ID:	0F02064-CCV8	Injection Time:	03:09

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
cis-Nonachlor	XXX	100	113	13.4				20
cis-Nonachlor [2C]	XXX	100	111	10.7				20
2,4'-DDD	XXX	100	106	5.9				20
2,4'-DDD [2C]	XXX	100	104	3.5				20
2,4'-DDE	XXX	100	104	4.4				20
2,4'-DDE [2C]	XXX	100	101	1.0				20
2,4'-DDT	Ave	100	115		75279.45	86282.29	14.6	20
2,4'-DDT [2C]	Ave	100	108		53639.74	57963.21	8.1	20
Hexachlorobenzene	XXX	100	104	3.6				20
Hexachlorobenzene [2C]	XXX	100	87.2	-12.8				20
Hexachlorobutadiene	XXX	100	118	18.1				20
Hexachlorobutadiene [2C]	XXX	100	108	8.2				20
Mirex	XXX	100	110	10.4				20
Mirex [2C]	XXX	100	114	14.2				20
Oxychlordane	XXX	100	112	12.2				20
Oxychlordane [2C]	XXX	100	110	9.7				20
trans-Nonachlor	XXX	100	114	13.7				20
trans-Nonachlor [2C]	XXX	100	115	15.2				20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0D10031	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0D10031-ICV1)				Lab File ID: ECD3-04102015.D		Analyzed: 04/10/20 15:14		
2,4,5,6-TCMX (Surr)	50.0	97	70 - 130	5.562	5.562111	-0.0001	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	102	70 - 130	6.062	6.061333	0.0007	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	100	70 - 130	9.807	9.807	0.0000	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	100	70 - 130	10.679	10.67878	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 - 4d. Elutriate Testing
Sequence:	0F02064	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0F02064-CCV3)				Lab File ID: ECD3-06022019.D		Analyzed: 06/02/20 21:28		
2,4,5,6-TCMX (Surr)	100	103	80 - 120	5.464	5.562111	-0.0981	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	89	80 - 120	5.983	6.061333	-0.0783	+/-1.0	
Decachlorobiphenyl (Surr)	100	105	80 - 120	9.693	9.807	-0.1140	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	80 - 120	10.567	10.67878	-0.1118	+/-1.0	
Calibration Blank (0F02064-CCB2)				Lab File ID: ECD3-06022021.D		Analyzed: 06/02/20 22:02		
2,4,5,6-TCMX (Surr) [2C]	100	84	42 - 129	5.983	6.061333	-0.0783	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	102	55 - 130	10.566	10.67878	-0.1128	+/-1.0	
Blank (0050955-BLK1)				Lab File ID: ECD3-06022029.D		Analyzed: 06/03/20 00:18		
2,4,5,6-TCMX (Surr) [2C]	0.000455	67	25 - 140	5.979	6.061333	-0.0823	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	0.000455	73	30 - 135	10.562	10.67878	-0.1168	+/-1.0	
LCS (0050955-BS1)				Lab File ID: ECD3-06022030.D		Analyzed: 06/03/20 00:35		
2,4,5,6-TCMX (Surr) [2C]	0.000500	71	25 - 140	5.98	6.061333	-0.0813	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	0.000500	81	30 - 135	10.563	10.67878	-0.1158	+/-1.0	
LCS Dup (0050955-BSD1)				Lab File ID: ECD3-06022031.D		Analyzed: 06/03/20 00:52		
2,4,5,6-TCMX (Surr) [2C]	0.000500	69	25 - 140	5.979	6.061333	-0.0823	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	0.000500	74	30 - 135	10.563	10.67878	-0.1158	+/-1.0	
Calibration Check (0F02064-CCV5)				Lab File ID: ECD3-06022032.D		Analyzed: 06/03/20 01:09		
2,4,5,6-TCMX (Surr)	50.0	105	80 - 120	5.461	5.562111	-0.1011	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	86	80 - 120	5.981	6.061333	-0.0803	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	110	80 - 120	9.69	9.807	-0.1170	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	117	80 - 120	10.564	10.67878	-0.1148	+/-1.0	
Calibration Blank (0F02064-CCB3)				Lab File ID: ECD3-06022034.D		Analyzed: 06/03/20 01:43		
2,4,5,6-TCMX (Surr) [2C]	100	83	42 - 129	5.981	6.061333	-0.0803	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	55 - 130	10.563	10.67878	-0.1158	+/-1.0	
LCS (0050955-BS2)				Lab File ID: ECD3-06022035.D		Analyzed: 06/03/20 02:01		
2,4,5,6-TCMX (Surr) [2C]	0.000500	71	25 - 140	5.98	6.061333	-0.0813	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	0.000500	79	30 - 135	10.563	10.67878	-0.1158	+/-1.0	
LCS Dup (0050955-BSD2)				Lab File ID: ECD3-06022036.D		Analyzed: 06/03/20 02:18		
2,4,5,6-TCMX (Surr) [2C]	0.000500	71	25 - 140	5.979	6.061333	-0.0823	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	0.000500	70	30 - 135	10.563	10.67878	-0.1158	+/-1.0	
PDI-026SW-A-200521-01 (A0E0669-01)				Lab File ID: ECD3-06022037.D		Analyzed: 06/03/20 02:35		
2,4,5,6-TCMX (Surr) [2C]	0.000485	55	25 - 140	5.98	6.061333	-0.0813	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	0.000485	81	30 - 135	10.563	10.67878	-0.1158	+/-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 - 4d. Elutriate Testing
Sequence:	0F02064	Instrument:	DUALECD3
Matrix:	Water	Calibration:	A0D1308

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0F02064-CCV7)				Lab File ID: ECD3-06022038.D		Analyzed: 06/03/20 02:52		
2,4,5,6-TCMX (Surr)	100	105	80 - 120	5.461	5.562111	-0.1011	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	90	80 - 120	5.98	6.061333	-0.0813	+/-1.0	
Decachlorobiphenyl (Surr)	100	108	80 - 120	9.69	9.807	-0.1170	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	113	80 - 120	10.564	10.67878	-0.1148	+/-1.0	
Calibration Blank (0F02064-CCB4)				Lab File ID: ECD3-06022040.D		Analyzed: 06/03/20 03:26		
2,4,5,6-TCMX (Surr) [2C]	100	83	42 - 129	5.981	6.061333	-0.0803	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	108	55 - 130	10.565	10.67878	-0.1138	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	05/28/20 07:17	6.74	7.00	06/03/20 02:35	5.80	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 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM
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 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Acenaphthene	0.0000100	0.0000200	mg/L
Acenaphthylene	0.0000100	0.0000200	mg/L
Anthracene	0.0000100	0.0000200	mg/L
Benz(a)anthracene	0.0000100	0.0000200	mg/L
Benzo(a)pyrene	0.0000150	0.0000300	mg/L
Benzo(b)fluoranthene	0.0000150	0.0000300	mg/L
Benzo(k)fluoranthene	0.0000150	0.0000300	mg/L
Benzo(g,h,i)perylene	0.0000100	0.0000200	mg/L
Chrysene	0.0000100	0.0000200	mg/L
Dibenz(a,h)anthracene	0.0000100	0.0000200	mg/L
Fluoranthene	0.0000100	0.0000200	mg/L
Fluorene	0.0000100	0.0000200	mg/L
Indeno(1,2,3-cd)pyrene	0.0000100	0.0000200	mg/L
1-Methylnaphthalene	0.0000200	0.0000400	mg/L
2-Methylnaphthalene	0.0000200	0.0000400	mg/L
Naphthalene	0.0000200	0.0000400	mg/L
Phenanthrene	0.0000100	0.0000200	mg/L
Pyrene	0.0000100	0.0000200	mg/L
Carbazole	0.0000150	0.0000300	mg/L
Dibenzofuran	0.0000100	0.0000200	mg/L
4-Chloro-3-methylphenol	0.000100	0.000200	mg/L
2-Chlorophenol	0.0000500	0.000100	mg/L
2,4-Dichlorophenol	0.0000500	0.000100	mg/L
2,4-Dimethylphenol	0.0000500	0.000100	mg/L
2,4-Dinitrophenol	0.000250	0.000500	mg/L
4,6-Dinitro-2-methylphenol	0.000250	0.000500	mg/L
2-Methylphenol	0.0000250	0.0000500	mg/L
3+4-Methylphenol(s)	0.0000250	0.0000500	mg/L
2-Nitrophenol	0.000100	0.000200	mg/L
4-Nitrophenol	0.000100	0.000200	mg/L
Pentachlorophenol (PCP)	0.000100	0.000200	mg/L
Phenol	0.000200	0.000400	mg/L
2,3,4,6-Tetrachlorophenol	0.0000500	0.000100	mg/L
2,3,5,6-Tetrachlorophenol	0.0000500	0.000100	mg/L
2,4,5-Trichlorophenol	0.0000500	0.000100	mg/L
2,4,6-Trichlorophenol	0.0000500	0.000100	mg/L
Bis(2-ethylhexyl)phthalate	0.000200	0.000400	mg/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

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

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Butyl benzyl phthalate	0.000200	0.000400	mg/L
Diethylphthalate	0.000200	0.000400	mg/L
Dimethylphthalate	0.000200	0.000400	mg/L
Di-n-butylphthalate	0.000200	0.000400	mg/L
Di-n-octyl phthalate	0.000200	0.000400	mg/L
N-Nitrosodimethylamine	0.0000250	0.0000500	mg/L
N-Nitroso-di-n-propylamine	0.0000250	0.0000500	mg/L
N-Nitrosodiphenylamine	0.0000250	0.0000500	mg/L
Hexachlorobenzene	0.0000100	0.0000200	mg/L
Hexachlorobutadiene	0.0000250	0.0000500	mg/L
Hexachlorocyclopentadiene	0.0000500	0.000100	mg/L
Hexachloroethane	0.0000250	0.0000500	mg/L
2-Chloronaphthalene	0.0000100	0.0000200	mg/L
1,2-Dichlorobenzene	0.0000250	0.0000500	mg/L
1,3-Dichlorobenzene	0.0000250	0.0000500	mg/L
1,4-Dichlorobenzene	0.0000250	0.0000500	mg/L
1,2,4-Trichlorobenzene	0.0000250	0.0000500	mg/L
4-Bromophenyl phenyl ether	0.0000250	0.0000500	mg/L
4-Chlorophenyl phenyl ether	0.0000250	0.0000500	mg/L
Aniline	0.0000500	0.000100	mg/L
4-Chloroaniline	0.0000250	0.0000500	mg/L
2-Nitroaniline	0.000200	0.000400	mg/L
3-Nitroaniline	0.000200	0.000400	mg/L
4-Nitroaniline	0.000200	0.000400	mg/L
Nitrobenzene	0.000100	0.000200	mg/L
2,4-Dinitrotoluene	0.000100	0.000200	mg/L
2,6-Dinitrotoluene	0.000100	0.000200	mg/L
Benzoic acid	0.00125	0.00250	mg/L
Benzyl alcohol	0.000100	0.000200	mg/L
Azobenzene (1,2-DPH)	0.0000250	0.0000500	mg/L
3,3'-Dichlorobenzidine	0.000500	0.00100	mg/L
1,2-Dinitrobenzene	0.000250	0.000500	mg/L
1,3-Dinitrobenzene	0.000250	0.000500	mg/L
1,4-Dinitrobenzene	0.000250	0.000500	mg/L
Pyridine	0.000100	0.000200	mg/L

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

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-026SW-A-200521-01

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	WS	Laboratory ID:	A0E0669-01RE3	File ID:	J05292007.D
Sampled:	05/21/20 13:30	Prepared:	05/28/20 15:42	Analyzed:	05/29/20 11:36
		Preparation:	EPA 3510C (Acid/Base Neut	Initial/Final:	1040 mL / 1 mL

Batch: 0051024 Sequence: 0E29010 Calibration: A0E0506 Instrument: SV-GCMS10

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	Q
56-55-3	Benz(a)anthracene	1	0.00000962	U
50-32-8	Benzo(a)pyrene	1	0.0000144	U
205-99-2	Benzo(b)fluoranthene	1	0.0000144	U
207-08-9	Benzo(k)fluoranthene	1	0.0000144	U
218-01-9	Chrysene	1	0.00000962	U
53-70-3	Dibenz(a,h)anthracene	1	0.00000962	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.00000962	U
91-20-3	Naphthalene	1	0.0000192	U
87-86-5	Pentachlorophenol (PCP)	1	0.0000962	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.000192	U
118-74-1	Hexachlorobenzene	1	0.00000962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Nitrobenzene-d5 (Surr)	0.00481	0.00251	52	44 - 120	
2-Fluorobiphenyl (Surr)	0.00481	0.00254	53	44 - 120	
Phenol-d6 (Surr)	0.00481	0.000761	16	10 - 133	
p-Terphenyl-d14 (Surr)	0.00481	0.00345	72	50 - 134	
2-Fluorophenol (Surr)	0.00481	0.00109	23	19 - 120	
2,4,6-Tribromophenol (Surr)	0.00481	0.00337	70	43 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4 (ISTD)	156235	6.803	123991	6.798	
Naphthalene-d8 (ISTD)	508661	8.076	460954	8.076	
Acenaphthene-d10 (ISTD)	233481	9.862	211482	9.862	
Phenanthrene-d10 (ISTD)	444366	11.381	365719	11.381	
Chrysene-d12 (ISTD)	454381	15.377	377177	15.377	
Perylene-d12 (ISTD)	429388	18.896	362380	18.902	
Dibenz(a,h)anthracene-d14 (ISTD)	380798	21.298	311079	21.303	

* 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 - 4d. Elutriate Testing
Batch: 0051024 Batch Matrix: Water
Preparation: EPA 3510C (Acid/Base Neutral)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0051024-BLK1	J05292004.D	05/28/20 14:25	
LCS	0051024-BS1	J05292005.D	05/28/20 14:25	
LCS Dup	0051024-BSD1	J05292006.D	05/28/20 14:25	
PDI-026SW-A-200521-01	A0E0669-01RE3	J05292007.D	05/28/20 15:42	

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 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0051024-BLK1	File ID:	J05292004.D
Prepared:	05/28/20 14:25	Preparation:	EPA 3510C (Acid/Base Neut	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/29/20 09:45	Instrument:	SV-GCMS10		
Batch:	0051024	Sequence:	0E29010	Calibration:	A0E0506

CAS NO.	COMPOUND	CONC. (mg/L)	Q
83-32-9	Acenaphthene	0.00000909	U
208-96-8	Acenaphthylene	0.00000909	U
120-12-7	Anthracene	0.00000909	U
56-55-3	Benz(a)anthracene	0.00000909	U
50-32-8	Benzo(a)pyrene	0.0000136	U
205-99-2	Benzo(b)fluoranthene	0.0000136	U
207-08-9	Benzo(k)fluoranthene	0.0000136	U
191-24-2	Benzo(g,h,i)perylene	0.00000909	U
218-01-9	Chrysene	0.00000909	U
53-70-3	Dibenz(a,h)anthracene	0.00000909	U
206-44-0	Fluoranthene	0.00000909	U
86-73-7	Fluorene	0.00000909	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.00000909	U
90-12-0	1-Methylnaphthalene	0.0000182	U
91-57-6	2-Methylnaphthalene	0.0000182	U
91-20-3	Naphthalene	0.0000182	U
85-01-8	Phenanthrene	0.00000909	U
129-00-0	Pyrene	0.00000909	U
86-74-8	Carbazole	0.0000136	U
132-64-9	Dibenzofuran	0.00000909	U
59-50-7	4-Chloro-3-methylphenol	0.0000909	U
95-57-8	2-Chlorophenol	0.0000455	U
120-83-2	2,4-Dichlorophenol	0.0000455	U
105-67-9	2,4-Dimethylphenol	0.0000455	U
51-28-5	2,4-Dinitrophenol	0.000227	U
534-52-1	4,6-Dinitro-2-methylphenol	0.000227	U
95-48-7	2-Methylphenol	0.0000227	U
NA	3+4-Methylphenol(s)	0.0000227	U
88-75-5	2-Nitrophenol	0.0000909	U
100-02-7	4-Nitrophenol	0.0000909	U
87-86-5	Pentachlorophenol (PCP)	0.0000909	U
108-95-2	Phenol	0.000182	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.0000455	U
935-95-5	2,3,5,6-Tetrachlorophenol	0.0000455	U
95-95-4	2,4,5-Trichlorophenol	0.0000455	U

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0051024-BLK1	File ID:	J05292004.D
Prepared:	05/28/20 14:25	Preparation:	EPA 3510C (Acid/Base Neut	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/29/20 09:45	Instrument:	SV-GCMS10		
Batch:	0051024	Sequence:	0E29010	Calibration:	A0E0506

CAS NO.	COMPOUND	CONC. (mg/L)	Q
88-06-2	2,4,6-Trichlorophenol	0.0000455	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.000182	U
85-68-7	Butyl benzyl phthalate	0.000182	U
84-66-2	Diethylphthalate	0.000182	U
131-11-3	Dimethylphthalate	0.000182	U
84-74-2	Di-n-butylphthalate	0.000182	U
117-84-0	Di-n-octyl phthalate	0.000182	U
62-75-9	N-Nitrosodimethylamine	0.0000227	U
621-64-7	N-Nitroso-di-n-propylamine	0.0000227	U
86-30-6	N-Nitrosodiphenylamine	0.0000227	U
111-91-1	Bis(2-Chloroethoxy) methane	0.0000227	U
111-44-4	Bis(2-Chloroethyl) ether	0.0000227	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	0.0000227	U
118-74-1	Hexachlorobenzene	0.00000909	U
87-68-3	Hexachlorobutadiene	0.0000227	U
77-47-4	Hexachlorocyclopentadiene	0.0000455	U
67-72-1	Hexachloroethane	0.0000227	U
91-58-7	2-Chloronaphthalene	0.00000909	U
95-50-1	1,2-Dichlorobenzene	0.0000227	U
541-73-1	1,3-Dichlorobenzene	0.0000227	U
106-46-7	1,4-Dichlorobenzene	0.0000227	U
120-82-1	1,2,4-Trichlorobenzene	0.0000227	U
101-55-3	4-Bromophenyl phenyl ether	0.0000227	U
7005-72-3	4-Chlorophenyl phenyl ether	0.0000227	U
62-53-3	Aniline	0.0000455	U
106-47-8	4-Chloroaniline	0.0000227	U
88-74-4	2-Nitroaniline	0.000182	U
99-09-2	3-Nitroaniline	0.000182	U
100-01-6	4-Nitroaniline	0.000182	U
98-95-3	Nitrobenzene	0.0000909	U
121-14-2	2,4-Dinitrotoluene	0.0000909	U
606-20-2	2,6-Dinitrotoluene	0.0000909	U
65-85-0	Benzoic acid	0.00114	U
100-51-6	Benzyl alcohol	0.0000909	U
78-59-1	Isophorone	0.0000227	U

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0051024-BLK1	File ID:	J05292004.D
Prepared:	05/28/20 14:25	Preparation:	EPA 3510C (Acid/Base Neut	Initial/Final:	1100 mL / 1 mL
Analyzed:	05/29/20 09:45	Instrument:	SV-GCMS10		
Batch:	0051024	Sequence:	0E29010	Calibration:	A0E0506

CAS NO.	COMPOUND	CONC. (mg/L)	Q
103-33-3	Azobenzene (1,2-DPH)	0.0000227	U
103-23-1	Bis(2-Ethylhexyl) adipate	0.000227	U
91-94-1	3,3'-Dichlorobenzidine	0.000455	U
528-29-0	1,2-Dinitrobenzene	0.000227	U
99-65-0	1,3-Dinitrobenzene	0.000227	U
100-25-4	1,4-Dinitrobenzene	0.000227	U
110-86-1	Pyridine	0.0000909	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Nitrobenzene-d5 (Surr)	0.00455	0.00297	65	44 - 120	
2-Fluorobiphenyl (Surr)	0.00455	0.00270	59	44 - 120	
Phenol-d6 (Surr)	0.00455	0.000959	21	10 - 133	
p-Terphenyl-d14 (Surr)	0.00455	0.00331	73	50 - 134	
2-Fluorophenol (Surr)	0.00455	0.00145	32	19 - 120	
2,4,6-Tribromophenol (Surr)	0.00455	0.00309	68	43 - 140	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4 (ISTD)	156748	6.803	123991	6.798	
Naphthalene-d8 (ISTD)	544769	8.076	460954	8.076	
Acenaphthene-d10 (ISTD)	253257	9.863	211482	9.862	
Phenanthrene-d10 (ISTD)	448506	11.382	365719	11.381	
Chrysene-d12 (ISTD)	451072	15.372	377177	15.377	
Perylene-d12 (ISTD)	405569	18.896	362380	18.902	
Dibenz(a,h)anthracene-d14 (ISTD)	369022	21.298	311079	21.303	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0051024	Laboratory ID:	0051024-BS1
Preparation:	EPA 3510C (Acid/Base Neutral)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	0.00400	0.00271	68	47 - 122
Acenaphthylene	0.00400	0.00277	69	41 - 130
Anthracene	0.00400	0.00273	68	57 - 123
Benz(a)anthracene	0.00400	0.00282	70	58 - 125
Benzo(a)pyrene	0.00400	0.00288	72	54 - 128
Benzo(b)fluoranthene	0.00400	0.00292	73	53 - 131
Benzo(k)fluoranthene	0.00400	0.00293	73	57 - 129
Benzo(g,h,i)perylene	0.00400	0.00292	73	50 - 134
Chrysene	0.00400	0.00287	72	59 - 123
Dibenz(a,h)anthracene	0.00400	0.00287	72	51 - 134
Fluoranthene	0.00400	0.00284	71	57 - 128
Fluorene	0.00400	0.00268	67	52 - 124
Indeno(1,2,3-cd)pyrene	0.00400	0.00271	68	52 - 134
1-Methylnaphthalene	0.00400	0.00254	63	41 - 120
2-Methylnaphthalene	0.00400	0.00251	63	40 - 121
Naphthalene	0.00400	0.00252	63	40 - 121
Phenanthrene	0.00400	0.00270	67	59 - 120
Pyrene	0.00400	0.00288	72	57 - 126
Carbazole	0.00400	0.00331	83	60 - 122
Dibenzofuran	0.00400	0.00262	65	53 - 120
4-Chloro-3-methylphenol	0.00400	0.00253	63	52 - 120
2-Chlorophenol	0.00400	0.00246	62	38 - 120
2,4-Dichlorophenol	0.00400	0.00272	68	47 - 121
2,4-Dimethylphenol	0.00400	0.00186	47	31 - 124
2,4-Dinitrophenol	0.00400	0.00347	87	23 - 143
4,6-Dinitro-2-methylphenol	0.00400	0.00283	71	44 - 137
2-Methylphenol	0.00400	0.00221	55	30 - 120
3+4-Methylphenol(s)	0.00400	0.00198	49	29 - 120
2-Nitrophenol	0.00400	0.00279	70	47 - 123
4-Nitrophenol	0.00400	0.000903	23	10 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0051024	Laboratory ID:	0051024-BS1
Preparation:	EPA 3510C (Acid/Base Neutral)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Pentachlorophenol (PCP)	0.00400	0.00281	70	35 - 138
Phenol	0.00400	0.00123	31	10 - 120
2,3,4,6-Tetrachlorophenol	0.00400	0.00274	69	50 - 128
2,3,5,6-Tetrachlorophenol	0.00400	0.00277	69	50 - 121
2,4,5-Trichlorophenol	0.00400	0.00290	73	53 - 123
2,4,6-Trichlorophenol	0.00400	0.00293	73	50 - 125
Bis(2-ethylhexyl)phthalate	0.00400	0.00292	73	55 - 135
Butyl benzyl phthalate	0.00400	0.00297	74	53 - 134
Diethylphthalate	0.00400	0.00260	65	56 - 125
Dimethylphthalate	0.00400	0.00276	69	45 - 127
Di-n-butylphthalate	0.00400	0.00289	72	59 - 127
Di-n-octyl phthalate	0.00400	0.00280	70	51 - 140
N-Nitrosodimethylamine	0.00400	0.00151	38	10 - 120
N-Nitroso-di-n-propylamine	0.00400	0.00271	68	49 - 120
N-Nitrosodiphenylamine	0.00400	0.00287	72	51 - 123
Bis(2-Chloroethoxy) methane	0.00400	0.00260	65	48 - 120
Bis(2-Chloroethyl) ether	0.00400	0.00253	63	43 - 120
2,2'-Oxybis(1-Chloropropane)	0.00400	0.00249	62	37 - 130
Hexachlorobenzene	0.00400	0.00257	64	53 - 125
Hexachlorobutadiene	0.00400	0.00243	61	22 - 124
Hexachlorocyclopentadiene	0.00400	0.00289	72	10 - 127
Hexachloroethane	0.00400	0.00243	61	21 - 120
2-Chloronaphthalene	0.00400	0.00272	68	40 - 120
1,2-Dichlorobenzene	0.00400	0.00242	60	32 - 120
1,3-Dichlorobenzene	0.00400	0.00226	57	28 - 120
1,4-Dichlorobenzene	0.00400	0.00236	59	29 - 120
1,2,4-Trichlorobenzene	0.00400	0.00253	63	29 - 120
4-Bromophenyl phenyl ether	0.00400	0.00272	68	55 - 124
4-Chlorophenyl phenyl ether	0.00400	0.00258	64	53 - 121
Aniline	0.00400	0.00248	62	10 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0051024	Laboratory ID:	0051024-BS1
Preparation:	EPA 3510C (Acid/Base Neutral)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
4-Chloroaniline	0.00400	0.00273	68	33 - 120
2-Nitroaniline	0.00400	0.00304	76	55 - 127
3-Nitroaniline	0.00400	0.00292	73	41 - 128
4-Nitroaniline	0.00400	0.00338	84	54 - 128
Nitrobenzene	0.00400	0.00264	66	45 - 121
2,4-Dinitrotoluene	0.00400	0.00273	68	57 - 128
2,6-Dinitrotoluene	0.00400	0.00286	71	57 - 124
Benzoic acid	0.00800	0.00365	46	10 - 120
Benzyl alcohol	0.00400	0.00222	55	31 - 120
Isophorone	0.00400	0.00276	69	42 - 124
Azobenzene (1,2-DPH)	0.00400	0.00290	72	61 - 120
Bis(2-Ethylhexyl) adipate	0.00400	0.00275	69	57 - 136
3,3'-Dichlorobenzidine	0.00800	0.0136	170 *	27 - 129
1,2-Dinitrobenzene	0.00400	0.00282	71	59 - 120
1,3-Dinitrobenzene	0.00400	0.00290	72	49 - 128
1,4-Dinitrobenzene	0.00400	0.00303	76	72 - 130
Pyridine	0.00400	0.00138	35	10 - 120

* = 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 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0051024	Laboratory ID:	0051024-BSD1
Preparation:	EPA 3510C (Acid/Base Neutral)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS
Acenaphthene	0.00400	0.00263	66	3	30	47 - 122
Acenaphthylene	0.00400	0.00271	68	2	30	41 - 130
Anthracene	0.00400	0.00274	69	0.5	30	57 - 123
Benz(a)anthracene	0.00400	0.00284	71	0.7	30	58 - 125
Benzo(a)pyrene	0.00400	0.00296	74	3	30	54 - 128
Benzo(b)fluoranthene	0.00400	0.00300	75	2	30	53 - 131
Benzo(k)fluoranthene	0.00400	0.00301	75	3	30	57 - 129
Benzo(g,h,i)perylene	0.00400	0.00308	77	5	30	50 - 134
Chrysene	0.00400	0.00287	72	0.2	30	59 - 123
Dibenz(a,h)anthracene	0.00400	0.00297	74	3	30	51 - 134
Fluoranthene	0.00400	0.00283	71	0.4	30	57 - 128
Fluorene	0.00400	0.00284	71	6	30	52 - 124
Indeno(1,2,3-cd)pyrene	0.00400	0.00283	71	4	30	52 - 134
1-Methylnaphthalene	0.00400	0.00230	57	10	30	41 - 120
2-Methylnaphthalene	0.00400	0.00228	57	10	30	40 - 121
Naphthalene	0.00400	0.00247	62	2	30	40 - 121
Phenanthrene	0.00400	0.00273	68	1	30	59 - 120
Pyrene	0.00400	0.00286	71	1	30	57 - 126
Carbazole	0.00400	0.00325	81	2	30	60 - 122
Dibenzofuran	0.00400	0.00275	69	5	30	53 - 120
4-Chloro-3-methylphenol	0.00400	0.00247	62	2	30	52 - 120
2-Chlorophenol	0.00400	0.00249	62	1	30	38 - 120
2,4-Dichlorophenol	0.00400	0.00270	67	1	30	47 - 121
2,4-Dimethylphenol	0.00400	0.00159	40	16	30	31 - 124
2,4-Dinitrophenol	0.00400	0.00363	91	4	30	23 - 143
4,6-Dinitro-2-methylphenol	0.00400	0.00321	80	13	30	44 - 137
2-Methylphenol	0.00400	0.00203	51	9	30	30 - 120
3+4-Methylphenol(s)	0.00400	0.00182	45	9	30	29 - 120
2-Nitrophenol	0.00400	0.00288	72	3	30	47 - 123
4-Nitrophenol	0.00400	0.00116	29	25	30	10 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0051024	Laboratory ID:	0051024-BSD1
Preparation:	EPA 3510C (Acid/Base Neutral)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	
Pentachlorophenol (PCP)	0.00400	0.00282	71	0.4	30	35 - 138
Phenol	0.00400	0.00122	31	1	30	10 - 120
2,3,4,6-Tetrachlorophenol	0.00400	0.00304	76	10	30	50 - 128
2,3,5,6-Tetrachlorophenol	0.00400	0.00304	76	9	30	50 - 121
2,4,5-Trichlorophenol	0.00400	0.00289	72	0.6	30	53 - 123
2,4,6-Trichlorophenol	0.00400	0.00279	70	5	30	50 - 125
Bis(2-ethylhexyl)phthalate	0.00400	0.00306	77	5	30	55 - 135
Butyl benzyl phthalate	0.00400	0.00294	73	1	30	53 - 134
Diethylphthalate	0.00400	0.00278	70	7	30	56 - 125
Dimethylphthalate	0.00400	0.00282	70	2	30	45 - 127
Di-n-butylphthalate	0.00400	0.00292	73	1	30	59 - 127
Di-n-octyl phthalate	0.00400	0.00306	77	9	30	51 - 140
N-Nitrosodimethylamine	0.00400	0.00178	44	17	30	10 - 120
N-Nitroso-di-n-propylamine	0.00400	0.00237	59	13	30	49 - 120
N-Nitrosodiphenylamine	0.00400	0.00275	69	4	30	51 - 123
Bis(2-Chloroethoxy) methane	0.00400	0.00255	64	2	30	48 - 120
Bis(2-Chloroethyl) ether	0.00400	0.00231	58	9	30	43 - 120
2,2'-Oxybis(1-Chloropropane)	0.00400	0.00234	59	6	30	37 - 130
Hexachlorobenzene	0.00400	0.00239	60	7	30	53 - 125
Hexachlorobutadiene	0.00400	0.00241	60	0.6	30	22 - 124
Hexachlorocyclopentadiene	0.00400	0.00283	71	2	30	10 - 127
Hexachloroethane	0.00400	0.00242	61	0.6	30	21 - 120
2-Chloronaphthalene	0.00400	0.00255	64	7	30	40 - 120
1,2-Dichlorobenzene	0.00400	0.00236	59	3	30	32 - 120
1,3-Dichlorobenzene	0.00400	0.00225	56	0.7	30	28 - 120
1,4-Dichlorobenzene	0.00400	0.00225	56	5	30	29 - 120
1,2,4-Trichlorobenzene	0.00400	0.00249	62	2	30	29 - 120
4-Bromophenyl phenyl ether	0.00400	0.00261	65	4	30	55 - 124
4-Chlorophenyl phenyl ether	0.00400	0.00272	68	5	30	53 - 121
Aniline	0.00400	0.00236	59	5	30	10 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0051024	Laboratory ID:	0051024-BSD1
Preparation:	EPA 3510C (Acid/Base Neutral)	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	
4-Chloroaniline	0.00400	0.00258	65		5	30	33 - 120
2-Nitroaniline	0.00400	0.00306	77		0.8	30	55 - 127
3-Nitroaniline	0.00400	0.00337	84		14	30	41 - 128
4-Nitroaniline	0.00400	0.00395	99		16	30	54 - 128
Nitrobenzene	0.00400	0.00242	61		9	30	45 - 121
2,4-Dinitrotoluene	0.00400	0.00286	72		5	30	57 - 128
2,6-Dinitrotoluene	0.00400	0.00290	72		1	30	57 - 124
Benzoic acid	0.00800	0.00378	47		3	30	10 - 120
Benzyl alcohol	0.00400	0.00205	51		8	30	31 - 120
Isophorone	0.00400	0.00282	70		2	30	42 - 124
Azobenzene (1,2-DPH)	0.00400	0.00266	66		9	30	61 - 120
Bis(2-Ethylhexyl) adipate	0.00400	0.00275	69		0.3	30	57 - 136
3,3'-Dichlorobenzidine	0.00800	0.0158	197	*	15	30	27 - 129
1,2-Dinitrobenzene	0.00400	0.00298	74		5	30	59 - 120
1,3-Dinitrobenzene	0.00400	0.00299	75		3	30	49 - 128
1,4-Dinitrobenzene	0.00400	0.00300	75		0.8	30	72 - 130
Pyridine	0.00400	0.00160	40		15	30	10 - 120

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E01048	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E01048-TUN1	J05012009.D	05/01/20 14:11
Initial Cal Blank	0E01048-ICB1	J05012010.D	05/01/20 14:39
Cal Standard	0E01048-CAL1	J05012011.D	05/01/20 15:16
Cal Standard	0E01048-CAL2	J05012012.D	05/01/20 15:53
Cal Standard	0E01048-CAL3	J05012013.D	05/01/20 18:15
Cal Standard	0E01048-CAL4	J05012014.D	05/01/20 18:50
Cal Standard	0E01048-CAL5	J05012015.D	05/01/20 19:26
Cal Standard	0E01048-CAL6	J05012016.D	05/01/20 20:01
Cal Standard	0E01048-CAL7	J05012017.D	05/01/20 20:36
Cal Standard	0E01048-CAL8	J05012018.D	05/01/20 21:11
Cal Standard	0E01048-CAL9	J05012019.D	05/01/20 21:46
Cal Standard	0E01048-CALA	J05012020.D	05/01/20 22:21
Initial Cal Check	0E01048-ICV1	J05012022.D	05/01/20 23:31

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 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E29010	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E29010-TUN1	J05292001.D	05/29/20 08:03
Calibration Check	0E29010-CCV1	J05292002.D	05/29/20 08:31
Calibration Blank	0E29010-CCB1	J05292003.D	05/29/20 09:07
Blank	0051024-BLK1	J05292004.D	05/29/20 09:45
LCS	0051024-BS1	J05292005.D	05/29/20 10:22
LCS Dup	0051024-BSD1	J05292006.D	05/29/20 10:59
PDI-026SW-A-200521-01	A0E0669-01RE3	J05292007.D	05/29/20 11:36

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 - 4d. Elutriate Testing
Lab File ID:	J05012009.D	Injection Date:	05/01/20
Instrument ID:	SV-GCMS10	Injection Time:	14:11
Sequence:	0E01048	Lab Sample ID:	0E01048-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.50	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.48	PASS
m/z 197	Less than 2% of m/z 198	0.11	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	4.67	PASS
m/z 441	Less than 150% of m/z 443	75.92	PASS
m/z 442	0.1 - 200% of m/z 198	144.26	PASS
m/z 443	15 - 24% of m/z 442	19.76	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 - 4d. Elutriate Testing
Lab File ID:	J05292001.D	Injection Date:	05/29/20
Instrument ID:	SV-GCMS10	Injection Time:	08:03
Sequence:	0E29010	Lab Sample ID:	0E29010-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.45	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.61	PASS
m/z 197	Less than 2% of m/z 198	0.16	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.83	PASS
m/z 365	1 - 100% of m/z 198	4.83	PASS
m/z 441	Less than 150% of m/z 443	75.98	PASS
m/z 442	0.1 - 200% of m/z 198	144.83	PASS
m/z 443	15 - 24% of m/z 442	19.47	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Calibration: A0E0506 Date: 05/05/20 15:37 Instrument: SV-GCMS10

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benz(a)anthracene	1.134038	Ave	3.288159	15.3897	0.1038462			20	
Benzo(a)pyrene	0.8542592	XXX	19.92698	18.8022	0.1382656				
Benzo(b)fluoranthene	1.039929	XXX	18.25386	18.0196	0.1276842				
Benzo(k)fluoranthene	1.012403	XXX	17.07778	18.0875	0.1448591				
Chrysene	1.068175	Ave	4.133873	15.4737	0.1269752			20	
Dibenz(a,h)anthracene	1.080508	Ave	4.796201	21.4183	0.1300863			20	
Indeno(1,2,3-cd)pyrene	1.162765	Ave	3.343229	21.3529	0.1512898			20	
Naphthalene	1.068379	Ave	12.09706	8.1055	5.728119E-02			20	
Pentachlorophenol (PCP)	0.1252494	XXX	39.28156	11.19789	3.538453E-02				
Bis(2-ethylhexyl)phthalate	0.615669	Ave	13.35685	15.55571	7.679306E-02			20	
Hexachlorobenzene	0.3201624	Ave	10.08947	11.005	3.572422E-02			20	
Nitrobenzene-d5 (Surr)	1.127464	Ave	7.149165	7.3561	7.308526E-02			20	
2-Fluorobiphenyl (Surr)	1.593321	Ave	10.79335	9.1703	4.828418E-02			20	
Phenol-d6 (Surr)	1.42936	Ave	8.143193	6.4373	0.1441756			20	
p-Terphenyl-d14 (Surr)	0.970764	Ave	8.781384	13.2783	0.0697478			20	
2-Fluorophenol (Surr)	1.214138	Ave	8.482968	5.528	6.164641E-02			20	
2,4,6-Tribromophenol (Surr)	0.1326031	XXX	21.88442	10.6754	6.113921E-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 8270D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0E0506

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: SV-GCMS10

Calibration Date: 05/05/20 15:37

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	20	1.331898	50	1.47271	100	1.41018	200	1.448985	500	1.417782	1000	1.36651
Acenaphthylene	20	1.83821	50	2.044467	100	2.139708	200	2.179846	500	2.197474	1000	2.076766
Anthracene	20	1.03303	50	1.092533	100	1.169903	200	1.197055	500	1.199932	1000	1.163532
Benz(a)anthracene	20	1.183775	50	1.080124	100	1.084719	200	1.128312	500	1.173007	1000	1.164557
Benzo(a)pyrene	20	0.5484383	50	0.6298965	100	0.6957461	200	0.8163063	500	0.9564717	1000	0.97207
Benzo(b)fluoranthene	20	0.7089108	50	0.7662897	100	0.8868251	200	0.990949	500	1.136772	1000	1.129014
Benzo(k)fluoranthene	20	0.68248	50	0.7588512	100	0.9259456	200	1.026977	500	1.178769	1000	1.161588
Benzo(b+k)fluoranthene(s)	40	0.7430505	100	0.8206033	200	0.9574229	400	1.059036	1000	1.19528	2000	1.18069
Benzo(g,h,i)perylene	20	0.776435	50	0.896235	100	1.041168	200	1.10611	500	1.226413	1000	1.207231
Chrysene	20	1.001226	50	1.081166	100	1.053245	200	1.112157	500	1.132419	1000	1.096594
Dibenz(a,h)anthracene	20	0.9964774	50	1.003322	100	1.042121	200	1.089272	500	1.14769	1000	1.104047
Fluoranthene	20	0.9816777	50	1.089265	100	1.193993	200	1.282702	500	1.317878	1000	1.315075
Fluorene	20	1.355942	50	1.310574	100	1.559842	200	1.582909	500	1.61896	1000	1.486134
Indeno(1,2,3-cd)pyrene	20	1.154043	50	1.139056	100	1.125996	200	1.112089	500	1.174755	1000	1.132274
1-Methylnaphthalene	20	0.6973106	50	0.7177634	100	0.7614049	200	0.7374633	500	0.7277501	1000	0.7060984
2-Methylnaphthalene	20	0.6787302	50	0.755966	100	0.7859386	200	0.8038993	500	0.7774538	1000	0.7657392
Naphthalene	20	1.12179	50	1.191588	100	1.159673	200	1.177242	500	1.164551	1000	1.122173
Phenanthrene	20	1.251568	50	1.20559	100	1.226887	200	1.236509	500	1.220081	1000	1.163501
Pyrene	20	1.048319	50	1.13154	100	1.246667	200	1.314269	500	1.389376	1000	1.315815
Carbazole	20	0.7335577	50	0.8581456	100	0.9241725	200	0.9747673	500	1.005365	1000	0.9295579
Dibenzofuran	20	1.871199	50	1.826996	100	1.992013	200	1.997131	500	1.970977	1000	1.896201
4-Chloro-3-methylphenol	20	~~0.1468669~~	50	0.184265	100	0.2145163	200	0.2398795	500	0.2667763	1000	0.2691635
2-Chlorophenol	20	1.185736	50	1.225892	100	1.295827	200	1.346318	500	1.457381	1000	1.442836
2,4-Dichlorophenol	20	~~0.2084828~~	50	0.2286023	100	0.2648909	200	0.2869749	500	0.3114868	1000	0.3142751
2,4-Dimethylphenol	20	~~0.2050672~~	50	0.2463373	100	0.2661426	200	0.3003978	500	0.3148234	1000	0.316034
2,4-Dinitrophenol	20	~~0~~	50	~~0~~	100	~~1.046119E-02~~	200	1.696333E-02	500	0.0498375	1000	8.098746E-02
4,6-Dinitro-2-methylphenol	20	~~0~~	50	~~1.606124E-02~~	100	~~4.302587E-02~~	200	7.389113E-02	500	0.1352937	1000	0.1789672
2-Methylphenol	20	0.9329525	50	0.8360099	100	0.9482015	200	1.003228	500	1.054377	1000	1.057172
3+4-Methylphenol(s)	20	1.01009	50	1.04744	100	1.23693	200	1.269678	500	1.337077	1000	1.34751
2-Nitrophenol	20	~~0.101509~~	50	~~0.1093097~~	100	0.1517636	200	0.1622001	500	0.1966295	1000	0.2096594
4-Nitrophenol	20	~~5.116234E-02~~	50	4.994226E-02	100	0.1071991	200	0.1329753	500	0.1941165	1000	0.2288886

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0E0506

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: SV-GCMS10

Calibration Date: 05/05/20 15:37

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
Pentachlorophenol (PCP)	20	~~1.695127E-02~~	50	3.838084E-02	100	0.0731054	200	8.501701E-02	500	0.11981	1000	0.1408718
Phenol	20	1.412459	50	1.18664	100	1.283273	200	1.631418	500	1.524032	1000	1.534989
2,3,4,6-Tetrachlorophenol	20	~~0.1070775~~	50	0.170343	100	0.2424634	200	0.3101415	500	0.3563781	1000	0.3694198
2,3,5,6-Tetrachlorophenol	20	~~8.191565E-02~~	50	0.1286072	100	0.1904949	200	0.2480959	500	0.3267098	1000	0.3607763
2,4,5-Trichlorophenol	20	0.2289724	50	0.2694069	100	0.3362205	200	0.3717557	500	0.433769	1000	0.4333678
2,4,6-Trichlorophenol	20	0.2121979	50	0.2633106	100	0.3484814	200	0.3641079	500	0.4333867	1000	0.4446764
Bis(2-ethylhexyl)phthalate	20	~~0.251626~~	50	~~0.248849~~	100	~~0.3216496~~	200	0.4411809	500	0.5893591	1000	0.6288373
Butyl benzyl phthalate	20	~~0.1601962~~	50	0.1987408	100	0.2534455	200	0.3035203	500	0.4027831	1000	0.4495893
Diethylphthalate	20	1.385018	50	1.505419	100	1.5464	200	1.545848	500	1.547866	1000	1.461831
Dimethylphthalate	20	1.286886	50	1.435899	100	1.564567	200	1.595013	500	1.578108	1000	1.529428
Di-n-butylphthalate	20	~~0.8452366~~	50	~~0.9292753~~	100	1.04307	200	1.113723	500	1.221495	1000	1.2278
Di-n-octyl phthalate	20	~~0.2597452~~	50	~~0.2806736~~	100	0.3548923	200	0.4701071	500	0.7662946	1000	0.9394232
N-Nitrosodimethylamine	20	0.5503899	50	0.6395516	100	0.7280982	200	0.7183491	500	0.7515471	1000	0.7323809
N-Nitroso-di-n-propylamine	20	0.6723512	50	0.6895261	100	0.7650262	200	0.8338345	500	0.8206845	1000	0.8127382
N-Nitrosodiphenylamine	20	0.5547385	50	0.5976843	100	0.6702258	200	0.6954549	500	0.7009807	1000	0.6670056
Bis(2-Chloroethoxy) methane	20	0.3457863	50	0.3746089	100	0.3854173	200	0.3840958	500	0.3935939	1000	0.3808328
Bis(2-Chloroethyl) ether	20	1.276425	50	1.316534	100	1.268732	200	1.375121	500	1.416574	1000	1.432117
2,2'-Oxybis(1-Chloropropane)	20	1.028333	50	1.109554	100	1.125937	200	1.126438	500	1.115489	1000	1.076246
Hexachlorobenzene	20	0.3365325	50	0.3534931	100	0.3600704	200	0.35175	500	0.3360474	1000	0.318758
Hexachlorobutadiene	20	0.2157236	50	0.2414853	100	0.2298429	200	0.2375846	500	0.2398655	1000	0.2293792
Hexachlorocyclopentadiene	20	0.3374478	50	0.3630779	100	0.3853206	200	0.4024335	500	0.4356689	1000	0.4341225
Hexachloroethane	20	0.4836759	50	0.577033	100	0.5884414	200	0.5700334	500	0.6012987	1000	0.5771034
2-Chloronaphthalene	20	1.39648	50	1.4053	100	1.470135	200	1.438059	500	1.406861	1000	1.361151
1,2-Dichlorobenzene	20	1.441646	50	1.614964	100	1.627446	200	1.671531	500	1.673342	1000	1.576277
1,3-Dichlorobenzene	20	1.793458	50	1.692859	100	1.745553	200	1.676939	500	1.710899	1000	1.646237
1,4-Dichlorobenzene	20	1.652212	50	1.710664	100	1.67609	200	1.629266	500	1.677661	1000	1.585043
1,2,4-Trichlorobenzene	20	0.3815808	50	0.3739397	100	0.3852782	200	0.3905907	500	0.3952564	1000	0.3817717
4-Bromophenyl phenyl ether	20	0.233163	50	0.2480153	100	0.2531716	200	0.2606086	500	0.2648094	1000	0.254216
4-Chlorophenyl phenyl ether	20	0.7232621	50	0.7177148	100	0.7880203	200	0.7911239	500	0.7960737	1000	0.7435446
Aniline	20	1.250886	50	1.377838	100	1.387257	200	1.511684	500	1.519975	1000	1.487009
4-Chloroaniline	20	0.2584858	50	0.3112539	100	0.3271151	200	0.3533675	500	0.3786493	1000	0.3851143

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0E0506

SDG: Gasco_PreRD_DG 2019

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument: SV-GCMS10

Calibration Date: 05/05/20 15:37

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
2-Nitroaniline	20	~~0.1624334~~	50	~~0.1755013~~	100	0.2691226	200	0.2934369	500	0.3620179	1000	0.386642
3-Nitroaniline	20	~~0.1143464~~	50	0.1806597	100	0.2335771	200	0.2659793	500	0.3052263	1000	0.2995404
4-Nitroaniline	20	~~0.1210562~~	50	~~0.1446684~~	100	0.184027	200	0.2142843	500	0.2201047	1000	0.2293014
Nitrobenzene	20	1.022078	50	1.030243	100	1.166526	200	1.156344	500	1.238148	1000	1.184577
2,4-Dinitrotoluene	20	~~0.1685841~~	50	0.2266159	100	0.2799213	200	0.3372541	500	0.4065621	1000	0.4291935
2,6-Dinitrotoluene	20	~~0.1540462~~	50	~~0.2031689~~	100	0.2787402	200	0.3078701	500	0.3446566	1000	0.3400283
Benzoic acid	40	~~2.889522E-02~~	100	~~5.019324E-03~~	200	~~6.522831E-03~~	400	~~1.237645E-02~~	1000	4.381751E-02	2000	0.0842081
Benzyl alcohol	20	0.4628278	50	0.4916515	100	0.5745281	200	0.6312247	500	0.7330741	1000	0.7901578
Isophorone	20	0.5153322	50	0.5429236	100	0.6107817	200	0.6152865	500	0.6236549	1000	0.6154205
Azobenzene (1,2-DPH)	20	0.5060451	50	0.580997	100	0.5892766	200	0.6199629	500	0.6182796	1000	0.596506
Benzidine	40	~~0.1317878~~	100	~~0.1355845~~	200	0.1654948	400	0.2543977	1000	0.3875834	2000	0.424596
Bis(2-Ethylhexyl) adipate	20	~~0.2070753~~	50	~~0.2035564~~	100	~~0.2385493~~	200	0.2824319	500	0.3636228	1000	0.3814964
3,3'-Dichlorobenzidine	40	~~0.1894569~~	100	~~0.2081442~~	200	~~0.2425286~~	400	0.2653328	1000	0.2195159	2000	0.1835233
1,2-Dinitrobenzene	20	~~6.374324E-02~~	50	~~9.132634E-02~~	100	0.1235658	200	0.1309914	500	0.1580079	1000	0.1594986
1,3-Dinitrobenzene	20	~~8.275438E-02~~	50	~~0.1046912~~	100	0.1563555	200	0.1723072	500	0.2157912	1000	0.220817
1,4-Dinitrobenzene	20	~~6.178621E-02~~	50	7.737534E-02	100	0.1077615	200	0.1307902	500	0.1659776	1000	0.1863254
Pyridine	20	~~0.9235709~~	50	0.8331774	100	0.9718437	200	1.152151	500	1.222641	1000	1.177176
2,3,5-Trimethylnaphthalene	20	1.116345	50	1.141169	100	1.229246	200	1.283722	500	1.292023	1000	1.198981
2,6-Dimethylnaphthalene	20	1.220348	50	1.310691	100	1.347694	200	1.361034	500	1.33505	1000	1.287144
Benzo(e)pyrene	20	0.7119	50	0.7724456	100	0.9149332	200	1.019418	500	1.110174	1000	1.098998
1,1'-Biphenyl	20	1.708487	50	1.817969	100	1.908043	200	1.844029	500	1.836998	1000	1.779743
Perylene	20	0.8841719	50	0.9296793	100	0.9921135	200	0.9795014	500	1.026057	1000	0.9925297
Nitrobenzene-d5 (Surr)	20	1.006963	50	0.99261	100	1.086289	200	1.165283	500	1.193067	1000	1.228916
2-Fluorobiphenyl (Surr)	20	1.634958	50	1.703313	100	1.766254	200	1.741099	500	1.737167	1000	1.660838
Phenol-d6 (Surr)	20	1.234729	50	1.266761	100	1.312878	200	1.434988	500	1.505471	1000	1.542301
p-Terphenyl-d14 (Surr)	20	0.7648127	50	0.8950494	100	1.000177	200	1.007628	500	1.055936	1000	1.036517
2-Fluorophenol (Surr)	20	1.017909	50	1.114815	100	1.117568	200	1.166497	500	1.27047	1000	1.258543
2,4,6-Tribromophenol (Surr)	20	7.395405E-02	50	9.289276E-02	100	0.1194551	200	0.1283914	500	0.1423239	1000	0.1490775

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0E0506
Instrument: SV-GCMS10
Matrix:
Calibration Date: 05/05/20 15:37

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	2000	1.307658	4000	1.193469	6000	1.100858	8000	1.046944				
Acenaphthylene	2000	2.000918	4000	1.807614	6000	1.621115	8000	1.493078				
Anthracene	2000	1.106916	4000	1.020236	6000	0.9374081	8000	0.8874469				
Benz(a)anthracene	2000	1.168494	4000	1.131065	6000	1.121852	8000	1.104473				
Benzo(a)pyrene	2000	1.004276	4000	0.9954656	6000	0.9760354	8000	0.9478858				
Benzo(b)fluoranthene	2000	1.208503	4000	1.197609	6000	1.191767	8000	1.182647				
Benzo(k)fluoranthene	2000	1.16426	4000	1.111765	6000	1.083351	8000	1.030047				
Benzo(b+k)fluoranthene(s)	4000	1.21611	8000	1.181162	12000	1.163569	16000	1.130412				
Benzo(g,h,i)perylene	2000	1.240317	4000	1.207841	6000	1.179189	8000	1.12518				
Chrysene	2000	1.093082	4000	1.066936	6000	1.044867	8000	1.000057				
Dibenz(a,h)anthracene	2000	1.114819	4000	1.13228	6000	1.104529	8000	1.070526				
Fluoranthene	2000	1.282415	4000	1.200664	6000	~~1.088323~~	8000	~~1.065193~~				
Fluorene	2000	1.428979	4000	1.301415	6000	1.169774	8000	1.131113				
Indeno(1,2,3-cd)pyrene	2000	1.158007	4000	1.183312	6000	1.221725	8000	1.226388				
1-Methylnaphthalene	2000	0.6918355	4000	0.6370839	6000	0.5936093	8000	0.5534062				
2-Methylnaphthalene	2000	0.7567649	4000	0.6907538	6000	0.6490809	8000	0.6058197				
Naphthalene	2000	1.063865	4000	0.9666643	6000	0.882492	8000	0.8337508				
Phenanthrene	2000	1.091362	4000	1.022345	6000	0.9467416	8000	0.8908922				
Pyrene	2000	1.288682	4000	1.197327	6000	1.100761	8000	1.056822				
Carbazole	2000	0.8131273	4000	0.4804391	6000	~~0.3709254~~	8000	~~0.420948~~				
Dibenzofuran	2000	1.840875	4000	1.695526	6000	1.543593	8000	1.476867				
4-Chloro-3-methylphenol	2000	0.2827642	4000	0.2766351	6000	0.2690648	8000	0.2591972				
2-Chlorophenol	2000	1.439568	4000	1.384201	6000	1.369414	8000	1.315337				
2,4-Dichlorophenol	2000	0.3225524	4000	0.3023123	6000	0.2902244	8000	0.2759573				
2,4-Dimethylphenol	2000	0.3033706	4000	0.2765431	6000	0.2661205	8000	~~0.2568604~~				
2,4-Dinitrophenol	2000	0.1181806	4000	0.1525979	6000	0.162063	8000	0.1773479				
4,6-Dinitro-2-methylphenol	2000	0.215326	4000	0.2441277	6000	0.2378605	8000	0.2439412				
2-Methylphenol	2000	1.047302	4000	0.9770163	6000	0.9246923	8000	0.8856925				
3+4-Methylphenol(s)	2000	1.320772	4000	1.19856	6000	1.135726	8000	~~1.086924~~				
2-Nitrophenol	2000	0.2008244	4000	0.2003265	6000	0.1927349	8000	0.1934816				
4-Nitrophenol	2000	0.2490834	4000	0.2605745	6000	0.2501795	8000	0.262054				

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0E0506
Instrument: SV-GCMS10
Matrix:
Calibration Date: 05/05/20 15:37

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
Pentachlorophenol (PCP)	2000	0.1610317	4000	0.1684072	6000	0.168955	8000	0.1716657				
Phenol	2000	1.658253	4000	1.575754	6000	1.544399	8000	1.492794				
2,3,4,6-Tetrachlorophenol	2000	0.3847489	4000	0.3856843	6000	0.3664249	8000	0.3711596				
2,3,5,6-Tetrachlorophenol	2000	0.3820095	4000	0.3883279	6000	0.3704171	8000	0.3771013				
2,4,5-Trichlorophenol	2000	0.4461997	4000	0.4378847	6000	0.4142294	8000	0.3945401				
2,4,6-Trichlorophenol	2000	0.4331596	4000	0.4458717	6000	0.420599	8000	0.4198224				
Bis(2-ethylhexyl)phthalate	2000	0.6671	4000	0.6739882	6000	0.6642011	8000	0.6450161				
Butyl benzyl phthalate	2000	0.4796208	4000	0.5067436	6000	0.5039344	8000	0.5117562				
Diethylphthalate	2000	1.353731	4000	1.223408	6000	1.052155	8000	1.01217				
Dimethylphthalate	2000	1.482711	4000	1.391273	6000	1.285786	8000	1.252565				
Di-n-butylphthalate	2000	1.168264	4000	1.112702	6000	0.9896788	8000	~~0.9690213~~				
Di-n-octyl phthalate	2000	1.102547	4000	1.18442	6000	1.175675	8000	1.158736				
N-Nitrosodimethylamine	2000	0.7544491	4000	0.7516594	6000	0.7920044	8000	0.7738494				
N-Nitroso-di-n-propylamine	2000	0.7979115	4000	0.7245221	6000	0.7004421	8000	0.6788902				
N-Nitrosodiphenylamine	2000	0.6353485	4000	0.5602132	6000	0.5098455	8000	0.4869481				
Bis(2-Chloroethoxy) methane	2000	0.3823291	4000	0.3567454	6000	0.3298175	8000	0.3136257				
Bis(2-Chloroethyl) ether	2000	1.442449	4000	1.284854	6000	1.229869	8000	1.138911				
2,2'-Oxybis(1-Chloropropane)	2000	1.02709	4000	0.9521917	6000	0.8736939	8000	0.8400612				
Hexachlorobenzene	2000	0.303798	4000	0.2893569	6000	0.2800305	8000	0.2717869				
Hexachlorobutadiene	2000	0.2244873	4000	0.2132131	6000	0.2065287	8000	0.204118				
Hexachlorocyclopentadiene	2000	0.4373845	4000	0.4426601	6000	0.4217003	8000	0.4277081				
Hexachloroethane	2000	0.5900105	4000	0.5659522	6000	0.5551395	8000	0.5512037				
2-Chloronaphthalene	2000	1.290783	4000	1.191303	6000	1.083251	8000	1.018227				
1,2-Dichlorobenzene	2000	1.530416	4000	1.418296	6000	1.368371	8000	1.324602				
1,3-Dichlorobenzene	2000	1.607162	4000	1.530285	6000	1.493042	8000	1.451579				
1,4-Dichlorobenzene	2000	1.593256	4000	1.48761	6000	1.425665	8000	1.39978				
1,2,4-Trichlorobenzene	2000	0.3677081	4000	0.3429383	6000	0.3208039	8000	0.3129302				
4-Bromophenyl phenyl ether	2000	0.254057	4000	0.2488234	6000	0.2441358	8000	0.2376803				
4-Chlorophenyl phenyl ether	2000	0.726215	4000	0.6962513	6000	0.6460986	8000	0.6386884				
Aniline	2000	1.502744	4000	1.558065	6000	1.619981	8000	1.675232				
4-Chloroaniline	2000	0.3654752	4000	0.3201643	6000	~~0.2986642~~	8000	~~0.2934863~~				

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Calibration: A0E0506
Instrument: SV-GCMS10
Matrix:
Calibration Date: 05/05/20 15:37

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
2-Nitroaniline	2000	0.4062862	4000	0.4025357	6000	0.3908318	8000	0.390998				
3-Nitroaniline	2000	0.2850662	4000	0.1641294	6000	~~0.1376848~~	8000	~~0.1678896~~				
4-Nitroaniline	2000	0.2265864	4000	0.2196364	6000	0.2076249	8000	0.218051				
Nitrobenzene	2000	1.186792	4000	1.115161	6000	1.08444	8000	1.035426				
2,4-Dinitrotoluene	2000	0.4525786	4000	0.4515713	6000	0.4189833	8000	0.4207218				
2,6-Dinitrotoluene	2000	0.3530475	4000	0.3409728	6000	0.3207168	8000	0.3134096				
Benzoic acid	4000	0.1281942	8000	0.1744612	12000	0.2023702	16000	0.2041759				
Benzyl alcohol	2000	0.8331343	4000	0.81712	6000	0.7922822	8000	0.7959317				
Isophorone	2000	0.6138125	4000	0.5864604	6000	0.5820203	8000	0.5708977				
Azobenzene (1,2-DPH)	2000	0.5785011	4000	0.5194372	6000	0.4808665	8000	0.4484308				
Benzidine	4000	0.4630846	8000	0.4216821	12000	0.3773698	16000	0.4385556				
Bis(2-Ethylhexyl) adipate	2000	0.4144467	4000	0.4290844	6000	0.4204836	8000	0.4239387				
3,3'-Dichlorobenzidine	4000	0.1403159	8000	0.1253929	12000	0.1217786	16000	0.1286296				
1,2-Dinitrobenzene	2000	0.1636589	4000	0.1621159	6000	0.1531093	8000	0.1490868				
1,3-Dinitrobenzene	2000	0.2360196	4000	0.2411277	6000	0.2287493	8000	0.2314387				
1,4-Dinitrobenzene	2000	0.2062761	4000	0.2120695	6000	0.2106446	8000	0.2130956				
Pyridine	2000	1.269844	4000	1.266204	6000	1.368874	8000	1.335267				
2,3,5-Trimethylnaphthalene	2000	1.124604	4000	1.008588	6000	0.9160567	8000	0.8612319				
2,6-Dimethylnaphthalene	2000	1.22497	4000	1.134281	6000	1.025679	8000	0.9723181				
Benzo(e)pyrene	2000	1.125403	4000	1.113865	6000	1.07445	8000	1.054871				
1,1'-Biphenyl	2000	1.678499	4000	1.550044	6000	1.390287	8000	1.301724				
Perylene	2000	0.998988	4000	0.9650618	6000	0.9441094	8000	0.9225709				
Nitrobenzene-d5 (Surr)	2000	1.209807	4000	1.14777	6000	1.141868	8000	1.102066				
2-Fluorobiphenyl (Surr)	2000	1.59082	4000	1.473729	6000	1.353338	8000	1.271692				
Phenol-d6 (Surr)	2000	1.560852	4000	1.493668	6000	1.487917	8000	1.454036				
p-Terphenyl-d14 (Surr)	2000	1.021674	4000	0.9907016	6000	0.9824467	8000	0.9526973				
2-Fluorophenol (Surr)	2000	1.313984	4000	1.292324	6000	1.32031	8000	1.268959				
2,4,6-Tribromophenol (Surr)	2000	0.1548826	4000	0.1555956	6000	0.1556971	8000	0.1537608				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05012022.D		
Sequence:	0E01048	Inject Date:	05/01/20
Lab Sample ID:	0E01048-ICV1	Inject Time:	23:31

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	1000	1060	6.3	70 - 130
Acenaphthylene	1000	1120	12.4	70 - 130
Anthracene	1000	1090	9.5	70 - 130
Benz(a)anthracene	1000	1020	2.0	70 - 130
Benzo(a)pyrene	1000	1110	11.3	70 - 130
Benzo(b)fluoranthene	1000	1100	9.7	70 - 130
Benzo(k)fluoranthene	1000	1080	8.3	70 - 130
Benzo(g,h,i)perylene	1000	1130	13.4	70 - 130
Chrysene	1000	1050	5.2	70 - 130
Dibenz(a,h)anthracene	1000	1070	7.1	70 - 130
Fluoranthene	1000	1090	9.4	70 - 130
Fluorene	1000	1050	5.4	70 - 130
Indeno(1,2,3-cd)pyrene	1000	1020	1.9	70 - 130
1-Methylnaphthalene	1000	1150	15.2	70 - 130
2-Methylnaphthalene	1000	1130	13.1	70 - 130
Naphthalene	1000	1060	6.4	70 - 130
Phenanthrene	1000	1060	5.9	70 - 130
Pyrene	1000	1100	9.9	70 - 130
Carbazole	1000	1040	4.2	70 - 130
Dibenzofuran	1000	1050	5.4	70 - 130
4-Chloro-3-methylphenol	1000	1150	14.6	70 - 130
2-Chlorophenol	1000	1130	12.7	70 - 130
2,4-Dichlorophenol	1000	1150	15.3	70 - 130
2,4-Dimethylphenol	1000	1020	2.1	70 - 130
2,4-Dinitrophenol	1000	985	-1.5	70 - 130
4,6-Dinitro-2-methylphenol	1000	1000	0.3	70 - 130
2-Methylphenol	1000	1190	18.6	70 - 130
3+4-Methylphenol(s)	1000	1200	20.3	70 - 130
2-Nitrophenol	1000	1170	16.6	70 - 130
4-Nitrophenol	1000	1050	5.2	70 - 130
Pentachlorophenol (PCP)	1000	1110	10.9	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05012022.D		
Sequence:	0E01048	Inject Date:	05/01/20
Lab Sample ID:	0E01048-ICV1	Inject Time:	23:31

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Phenol	1000	1230	23.0	70 - 130
2,3,4,6-Tetrachlorophenol	1000	1080	8.4	70 - 130
2,3,5,6-Tetrachlorophenol	1000	1090	8.6	70 - 130
2,4,5-Trichlorophenol	1000	1100	10.2	70 - 130
2,4,6-Trichlorophenol	1000	1070	6.8	70 - 130
Bis(2-ethylhexyl)phthalate	1000	1020	1.6	70 - 130
Butyl benzyl phthalate	1000	1090	9.2	70 - 130
Diethylphthalate	1000	1030	2.7	70 - 130
Dimethylphthalate	1000	1090	8.8	70 - 130
Di-n-butylphthalate	1000	1060	5.9	70 - 130
Di-n-octyl phthalate	1000	1020	2.1	70 - 130
N-Nitrosodimethylamine	1000	1110	10.9	70 - 130
N-Nitroso-di-n-propylamine	1000	1170	17.5	70 - 130
N-Nitrosodiphenylamine	1000	1110	11.2	70 - 130
Bis(2-Chloroethoxy) methane	1000	1100	10.2	70 - 130
Bis(2-Chloroethyl) ether	1000	1130	13.2	70 - 130
2,2'-Oxybis(1-Chloropropane)	1000	1130	12.6	70 - 130
Hexachlorobenzene	1000	1020	2.1	70 - 130
Hexachlorobutadiene	1000	1050	5.0	70 - 130
Hexachlorocyclopentadiene	1000	1120	12.4	70 - 130
Hexachloroethane	1000	1080	7.9	70 - 130
2-Chloronaphthalene	1000	1070	7.1	70 - 130
1,2-Dichlorobenzene	1000	1080	8.4	70 - 130
1,3-Dichlorobenzene	1000	1040	4.2	70 - 130
1,4-Dichlorobenzene	1000	1060	6.1	70 - 130
1,2,4-Trichlorobenzene	1000	1050	5.0	70 - 130
4-Bromophenyl phenyl ether	1000	1050	4.5	70 - 130
4-Chlorophenyl phenyl ether	1000	1020	1.7	70 - 130
Aniline	1000	1060	6.3	70 - 130
4-Chloroaniline	1000	1180	18.2	70 - 130
2-Nitroaniline	1000	1150	14.8	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05012022.D		
Sequence:	0E01048	Inject Date:	05/01/20
Lab Sample ID:	0E01048-ICV1	Inject Time:	23:31

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
3-Nitroaniline	1000	1020	1.9	70 - 130
4-Nitroaniline	1000	987	-1.3	70 - 130
Nitrobenzene	1000	1160	15.8	70 - 130
2,4-Dinitrotoluene	1000	1060	5.8	70 - 130
2,6-Dinitrotoluene	1000	1100	10.1	70 - 130
Benzoic acid	2000	2140	7.2	70 - 130
Benzyl alcohol	1000	1110	11.5	70 - 130
Isophorone	1000	1100	10.0	70 - 130
Azobenzene (1,2-DPH)	1000	1090	9.3	70 - 130
Bis(2-Ethylhexyl) adipate	1000	945	-5.5	70 - 130
3,3'-Dichlorobenzidine	2000	2020	0.8	70 - 130
1,2-Dinitrobenzene	1000	1100	9.8	70 - 130
1,3-Dinitrobenzene	1000	1090	9.1	70 - 130
1,4-Dinitrobenzene	1000	1100	10.2	70 - 130
Pyridine	1000	1030	3.3	70 - 130
Nitrobenzene-d5 (Surr)	1000	1150	14.7	70 - 130
2-Fluorobiphenyl (Surr)	1000	1050	4.8	70 - 130
Phenol-d6 (Surr)	1000	1140	14.4	70 - 130
p-Terphenyl-d14 (Surr)	1000	1050	5.3	70 - 130
2-Fluorophenol (Surr)	1000	1090	9.0	70 - 130
2,4,6-Tribromophenol (Surr)	1000	1110	11.4	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05292002.D	Calibration Date:	05/05/20 15:37
Sequence:	0E29010	Injection Date:	05/29/20
Lab Sample ID:	0E29010-CCV1	Injection Time:	08:31

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	1000	1030		1.309699	1.342658	2.5	20
Acenaphthylene	Ave	1000	1060		1.93992	2.057896	6.1	20
Anthracene	Ave	1000	1080		1.080799	1.16339	7.6	20
Benz(a)anthracene	Ave	1000	981		1.134038	1.112125	-1.9	20
Benzo(a)pyrene	XXX	1000	1020	2.2				20
Benzo(b)fluoranthene	XXX	1000	1010	1.0				20
Benzo(k)fluoranthene	XXX	1000	1020	1.6				20
Benzo(g,h,i)perylene	Ave	1000	1040		1.100612	1.140926	3.7	20
Chrysene	Ave	1000	994		1.068175	1.061963	-0.6	20
Dibenz(a,h)anthracene	Ave	1000	1030		1.080508	1.11191	2.9	20
Fluoranthene	Ave	1000	1020		1.207959	1.236961	2.4	20
Fluorene	Ave	1000	1020		1.394564	1.42501	2.2	20
Indeno(1,2,3-cd)pyrene	Ave	1000	933		1.162765	1.085255	-6.7	20
1-Methylnaphthalene	Ave	1000	970		0.6823726	0.6619185	-3.0	20
2-Methylnaphthalene	Ave	1000	988		0.7270146	0.7180673	-1.2	20
Naphthalene	Ave	1000	1050		1.068379	1.117378	4.6	20
Phenanthrene	Ave	1000	1020		1.125548	1.14717	1.9	20
Pyrene	Ave	1000	1070		1.208958	1.296843	7.3	20
Carbazole	XXX	1000	1100	9.6				20
Dibenzofuran	Ave	1000	1010		1.811138	1.83052	1.1	20
4-Chloro-3-methylphenol	Ave	1000	968		0.2513624	0.2433822	-3.2	20
2-Chlorophenol	Ave	1000	1070		1.346251	1.438492	6.9	20
2,4-Dichlorophenol	Ave	1000	1030		0.2885863	0.2973789	3.0	20
2,4-Dimethylphenol	Ave	1000	1000		0.2862212	0.2869744	0.3	20
2,4-Dinitrophenol	XXX	1000	1020	2.1				20
4,6-Dinitro-2-methylphenol	XXX	1000	968	-3.2				20
2-Methylphenol	Ave	1000	1080		0.9666644	1.048189	8.4	20
3+4-Methylphenol(s)	Ave	1000	1090		1.211531	1.32629	9.5	20
2-Nitrophenol	Ave	1000	1090		0.1884525	0.2053611	9.0	20
4-Nitrophenol	XXX	1000	842	-15.8				20

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05292002.D	Calibration Date:	05/05/20 15:37
Sequence:	0E29010	Injection Date:	05/29/20
Lab Sample ID:	0E29010-CCV1	Injection Time:	08:31

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Pentachlorophenol (PCP)	XXX	1000	949	-5.1				20
Phenol	Ave	1000	1200		1.484401	1.774451	19.5	20
2,3,4,6-Tetrachlorophenol	XXX	1000	950	-5.0				20
2,3,5,6-Tetrachlorophenol	XXX	1000	980	-2.0				20
2,4,5-Trichlorophenol	XXX	1000	1030	2.7				20
2,4,6-Trichlorophenol	XXX	1000	1060	6.1				20
Bis(2-ethylhexyl)phthalate	Ave	1000	919		0.615669	0.5655859	-8.1	20
Butyl benzyl phthalate	XXX	1000	940	-6.0				20
Diethylphthalate	Ave	1000	1010		1.363385	1.374935	0.8	20
Dimethylphthalate	Ave	1000	963		1.440224	1.386709	-3.7	20
Di-n-butylphthalate	Ave	1000	986		1.125248	1.109874	-1.4	20
Di-n-octyl phthalate	XXX	1000	911	-8.9				20
N-Nitrosodimethylamine	Ave	1000	961		0.7192279	0.6914695	-3.9	20
N-Nitroso-di-n-propylamine	Ave	1000	1090		0.7495927	0.8206402	9.5	20
N-Nitrosodiphenylamine	Ave	1000	1100		0.6078445	0.6700937	10.2	20
Bis(2-Chloroethoxy) methane	Ave	1000	1020		0.3646853	0.3712952	1.8	20
Bis(2-Chloroethyl) ether	Ave	1000	978		1.318159	1.289432	-2.2	20
2,2'-Oxybis(1-Chloropropane)	Ave	1000	1020		1.027503	1.051205	2.3	20
Hexachlorobenzene	Ave	1000	986		0.3201624	0.3157998	-1.4	20
Hexachlorobutadiene	Ave	1000	962		0.2242228	0.2156875	-3.8	20
Hexachlorocyclopentadiene	Ave	1000	1120		0.4087524	0.4580059	12.0	20
Hexachloroethane	Ave	1000	998		0.5659892	0.5649765	-0.2	20
2-Chloronaphthalene	Ave	1000	1050		1.306155	1.366112	4.6	20
1,2-Dichlorobenzene	Ave	1000	1030		1.524689	1.576131	3.4	20
1,3-Dichlorobenzene	Ave	1000	970		1.634801	1.58518	-3.0	20
1,4-Dichlorobenzene	Ave	1000	1010		1.583725	1.602536	1.2	20
1,2,4-Trichlorobenzene	Ave	1000	1010		0.3652798	0.3701975	1.3	20
4-Bromophenyl phenyl ether	Ave	1000	997		0.249868	0.2490327	-0.3	20
4-Chlorophenyl phenyl ether	Ave	1000	956		0.7266993	0.6948298	-4.4	20
Aniline	Ave	1000	1190		1.489067	1.774532	19.2	20

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID:	SV-GCMS10	Calibration:	A0E0506
Lab File ID:	J05292002.D	Calibration Date:	05/05/20 15:37
Sequence:	0E29010	Injection Date:	05/29/20
Lab Sample ID:	0E29010-CCV1	Injection Time:	08:31

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4-Chloroaniline	Ave	1000	1110		0.3374532	0.374584	11.0	20
2-Nitroaniline	Ave	1000	1010		0.3627339	0.3679746	1.4	20
3-Nitroaniline	XXX	1000	996	-0.4				20
4-Nitroaniline	Ave	1000	1260		0.214952	0.2700277	25.6*	20
Nitrobenzene	Ave	1000	1110		1.121974	1.250188	11.4	20
2,4-Dinitrotoluene	XXX	1000	975	-2.5				20
2,6-Dinitrotoluene	Ave	1000	1020		0.3249302	0.3318864	2.1	20
Benzoic acid	XXX	2000	2170	8.3				20
Benzyl alcohol	XXX	1000	1010	1.0				20
Isophorone	Ave	1000	1050		0.587659	0.614109	4.5	20
Azobenzene (1,2-DPH)	Ave	1000	1080		0.5538303	0.5980931	8.0	20
Bis(2-Ethylhexyl) adipate	Ave	1000	868		0.3879292	0.3367544	-13.2	20
3,3'-Dichlorobenzidine	XXX	2000	5100	155 *				20
1,2-Dinitrobenzene	Ave	1000	1000		0.1500043	0.1499608	-0.03	20
1,3-Dinitrobenzene	Ave	1000	1020		0.2128258	0.2166331	1.8	20
1,4-Dinitrobenzene	XXX	1000	1040	4.0				20
Pyridine	Ave	1000	1020		1.177464	1.197184	1.7	20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E01048	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0E01048-ICV1)			Lab File ID: J05012022.D		Analyzed: 05/01/20 23:31			
Nitrobenzene-d5 (Surr)	1000	115	70 - 130	7.354	7.3561	-0.0021	+/-1.0	
2-Fluorobiphenyl (Surr)	1000	105	70 - 130	9.172	9.1703	0.0017	+/-1.0	
Phenol-d6 (Surr)	1000	114	70 - 130	6.434	6.4373	-0.0033	+/-1.0	
p-Terphenyl-d14 (Surr)	1000	105	70 - 130	13.28	13.2783	0.0017	+/-1.0	
2-Fluorophenol (Surr)	1000	109	70 - 130	5.525	5.528	-0.0030	+/-1.0	
2,4,6-Tribromophenol (Surr)	1000	111	70 - 130	10.675	10.6754	-0.0004	+/-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 - 4d. Elutriate Testing
Sequence:	0E29010	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0E29010-CCV1)			Lab File ID: J05292002.D		Analyzed: 05/29/20 08:31			
Nitrobenzene-d5 (Surr)	1000	112	80 - 120	7.349	7.3561	-0.0071	+/-1.0	
2-Fluorobiphenyl (Surr)	1000	102	80 - 120	9.162	9.1703	-0.0083	+/-1.0	
Phenol-d6 (Surr)	1000	112	80 - 120	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	1000	102	80 - 120	13.259	13.2783	-0.0193	+/-1.0	
2-Fluorophenol (Surr)	1000	102	80 - 120	5.53	5.528	0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	1000	106	80 - 120	10.665	10.6754	-0.0104	+/-1.0	
Calibration Blank (0E29010-CCB1)			Lab File ID: J05292003.D		Analyzed: 05/29/20 09:07			
Nitrobenzene-d5 (Surr)			44 - 120	0	7.3561	-7.3561	+/-1.0	
2-Fluorobiphenyl (Surr)			44 - 120	0	9.1703	-9.1703	+/-1.0	
Phenol-d6 (Surr)			10 - 133	0	6.4373	-6.4373	+/-1.0	
p-Terphenyl-d14 (Surr)			50 - 134	13.27	13.2783	-0.0083	+/-1.0	
2-Fluorophenol (Surr)			19 - 120	0	5.528	-5.5280	+/-1.0	
2,4,6-Tribromophenol (Surr)			43 - 140	0	10.6754	-10.6754	+/-1.0	
Blank (0051024-BLK1)			Lab File ID: J05292004.D		Analyzed: 05/29/20 09:45			
Nitrobenzene-d5 (Surr)	0.00455	65	44 - 120	7.349	7.3561	-0.0071	+/-1.0	
2-Fluorobiphenyl (Surr)	0.00455	59	44 - 120	9.162	9.1703	-0.0083	+/-1.0	
Phenol-d6 (Surr)	0.00455	21	10 - 133	6.445	6.4373	0.0077	+/-1.0	
p-Terphenyl-d14 (Surr)	0.00455	73	50 - 134	13.259	13.2783	-0.0193	+/-1.0	
2-Fluorophenol (Surr)	0.00455	32	19 - 120	5.53	5.528	0.0020	+/-1.0	
2,4,6-Tribromophenol (Surr)	0.00455	68	43 - 140	10.665	10.6754	-0.0104	+/-1.0	
LCS (0051024-BS1)			Lab File ID: J05292005.D		Analyzed: 05/29/20 10:22			
Nitrobenzene-d5 (Surr)	0.00500	68	44 - 120	7.349	7.3561	-0.0071	+/-1.0	
2-Fluorobiphenyl (Surr)	0.00500	67	44 - 120	9.162	9.1703	-0.0083	+/-1.0	
Phenol-d6 (Surr)	0.00500	25	10 - 133	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	0.00500	75	50 - 134	13.259	13.2783	-0.0193	+/-1.0	
2-Fluorophenol (Surr)	0.00500	33	19 - 120	5.535	5.528	0.0070	+/-1.0	
2,4,6-Tribromophenol (Surr)	0.00500	73	43 - 140	10.665	10.6754	-0.0104	+/-1.0	
LCS Dup (0051024-BSD1)			Lab File ID: J05292006.D		Analyzed: 05/29/20 10:59			
Nitrobenzene-d5 (Surr)	0.00500	62	44 - 120	7.349	7.3561	-0.0071	+/-1.0	
2-Fluorobiphenyl (Surr)	0.00500	63	44 - 120	9.162	9.1703	-0.0083	+/-1.0	
Phenol-d6 (Surr)	0.00500	25	10 - 133	6.439	6.4373	0.0017	+/-1.0	
p-Terphenyl-d14 (Surr)	0.00500	72	50 - 134	13.259	13.2783	-0.0193	+/-1.0	
2-Fluorophenol (Surr)	0.00500	35	19 - 120	5.535	5.528	0.0070	+/-1.0	
2,4,6-Tribromophenol (Surr)	0.00500	69	43 - 140	10.665	10.6754	-0.0104	+/-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 - 4d. Elutriate Testing
Sequence:	0E29010	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PDI-026SW-A-200521-01 (A0E0669-01RE3)			Lab File ID: J05292007.D		Analyzed: 05/29/20 11:36			
Nitrobenzene-d5 (Surr)	0.00481	52	44 - 120	7.348	7.3561	-0.0081	+/-1.0	
2-Fluorobiphenyl (Surr)	0.00481	53	44 - 120	9.162	9.1703	-0.0083	+/-1.0	
Phenol-d6 (Surr)	0.00481	16	10 - 133	6.445	6.4373	0.0077	+/-1.0	
p-Terphenyl-d14 (Surr)	0.00481	72	50 - 134	13.259	13.2783	-0.0193	+/-1.0	
2-Fluorophenol (Surr)	0.00481	23	19 - 120	5.535	5.528	0.0070	+/-1.0	
2,4,6-Tribromophenol (Surr)	0.00481	70	43 - 140	10.665	10.6754	-0.0104	+/-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 - 4d. Elutriate Testing
Sequence:	0E29010	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0E29010-CCV1)			Lab File ID: J05292002.D			Analyzed: 05/29/20 08:31			
1,4-Dichlorobenzene-d4 (ISTD)	123991	6.798	180245	6.808	69	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8 (ISTD)	460954	8.076	673130	8.081	68	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	211482	9.862	339213	9.868	62	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	365719	11.381	643209	11.392	57	50 - 200	-0.0110	+/-0.50	
Chrysene-d12 (ISTD)	377177	15.377	647204	15.404	58	50 - 200	-0.0270	+/-0.50	
Perylene-d12 (ISTD)	362380	18.902	635590	18.928	57	50 - 200	-0.0260	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	311079	21.303	543591	21.335	57	50 - 200	-0.0320	+/-0.50	
Calibration Blank (0E29010-CCB1)			Lab File ID: J05292003.D			Analyzed: 05/29/20 09:07			
1,4-Dichlorobenzene-d4 (ISTD)	120978	6.803	123991	6.798	98	50 - 200	0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	537656	8.076	460954	8.076	117	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	246169	9.863	211482	9.862	116	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	434471	11.376	365719	11.381	119	50 - 200	-0.0050	+/-0.50	
Chrysene-d12 (ISTD)	420366	15.372	377177	15.377	111	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	403687	18.896	362380	18.902	111	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	349022	21.298	311079	21.303	112	50 - 200	-0.0050	+/-0.50	
Blank (0051024-BLK1)			Lab File ID: J05292004.D			Analyzed: 05/29/20 09:45			
1,4-Dichlorobenzene-d4 (ISTD)	156748	6.803	123991	6.798	126	50 - 200	0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	544769	8.076	460954	8.076	118	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	253257	9.863	211482	9.862	120	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	448506	11.382	365719	11.381	123	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	451072	15.372	377177	15.377	120	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	405569	18.896	362380	18.902	112	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	369022	21.298	311079	21.303	119	50 - 200	-0.0050	+/-0.50	
LCS (0051024-BS1)			Lab File ID: J05292005.D			Analyzed: 05/29/20 10:22			
1,4-Dichlorobenzene-d4 (ISTD)	152625	6.803	123991	6.798	123	50 - 200	0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	538316	8.076	460954	8.076	117	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	242369	9.862	211482	9.862	115	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	422887	11.381	365719	11.381	116	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	423940	15.377	377177	15.377	112	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	421582	18.902	362380	18.902	116	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	369523	21.303	311079	21.303	119	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0E29010	Instrument:	SV-GCMS10
Matrix:	Water	Calibration:	A0E0506

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (0051024-BSD1)			Lab File ID: J05292006.D			Analyzed: 05/29/20 10:59			
1,4-Dichlorobenzene-d4 (ISTD)	159186	6.803	123991	6.798	128	50 - 200	0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	484713	8.076	460954	8.076	105	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	214381	9.862	211482	9.862	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	433687	11.381	365719	11.381	119	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	443138	15.377	377177	15.377	117	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	427922	18.902	362380	18.902	118	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	376685	21.303	311079	21.303	121	50 - 200	0.0000	+/-0.50	
PDI-026SW-A-200521-01 (A0E0669-01RE3)			Lab File ID: J05292007.D			Analyzed: 05/29/20 11:36			
1,4-Dichlorobenzene-d4 (ISTD)	156235	6.803	123991	6.798	126	50 - 200	0.0050	+/-0.50	
Naphthalene-d8 (ISTD)	508661	8.076	460954	8.076	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	233481	9.862	211482	9.862	110	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	444366	11.381	365719	11.381	122	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	454381	15.377	377177	15.377	120	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	429388	18.896	362380	18.902	118	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	380798	21.298	311079	21.303	122	50 - 200	-0.0050	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	05/28/20 15:42	7.09	7.00	05/29/20 11:36	0.83	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: METALS

METHOD: EPA 6020A

ANALYSES DATA PACKAGE COVER PAGE

EPA 6020A

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 6020A

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

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Arsenic	0.000500	0.00100	mg/L
Chromium	0.000500	0.00100	mg/L
Copper	0.00100	0.00200	mg/L
Zinc	0.00200	0.00400	mg/L

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

INORGANIC ANALYSIS DATA SHEET

EPA 6020A

PDI-026SW-A-200521-01

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix: WS
Laboratory ID: A0E0669-01
File ID: 0F03039-059
Sampled: 05/21/20 13:30
Prepared: 06/03/20 10:37
Analyzed: 06/03/20 15:01
Solids: N/A
Preparation: EPA 3015A
Initial/Final: 45 mL / 50 mL
Batch: 0060121
Sequence: 0F03039
Instrument: ICPMS5

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.000500	1	U	EPA 6020A
7440-47-3	Chromium	0.000500	1	U	EPA 6020A
7440-50-8	Copper	0.00100	1	U	EPA 6020A
7440-66-6	Zinc	0.00200	1	U	EPA 6020A

PREPARATION BATCH SUMMARY

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Batch: 0060121 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0060121-BLK1	0F03039-056	06/03/20 10:37	
LCS	0060121-BS1	0F03039-057	06/03/20 10:37	
PDI-026SW-A-200521-01	A0E0669-01	0F03039-059	06/03/20 10:37	

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 6020A

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0060121-BLK1	File ID:	0F03039-056
Prepared:	06/03/20 10:37	Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL
Analyzed:	06/03/20 14:46	Instrument:	ICPMS5		
Batch:	0060121	Sequence:	0F03039	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7440-38-2	Arsenic	0.000500	U
7440-47-3	Chromium	0.000500	U
7440-50-8	Copper	0.00100	U
7440-66-6	Zinc	0.00200	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water		
Batch:	0060121	Laboratory ID:	0060121-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Arsenic	0.0556	0.0539	97	80 - 120
Chromium	0.0556	0.0514	93	80 - 120
Copper	0.0556	0.0542	98	80 - 120
Zinc	0.0556	0.0515	93	80 - 120

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0F03039	Instrument:	ICPMS5
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	0F03039-ICV1	0F03039-017	06/03/20 11:24
Initial Cal Blank	0F03039-ICB1	0F03039-018	06/03/20 11:29
Instrument RL Check	0F03039-CRL1	0F03039-019	06/03/20 11:34
Instrument RL Check	0F03039-CRL2	0F03039-020	06/03/20 11:39
Instrument RL Check	0F03039-CRL3	0F03039-021	06/03/20 11:44
Instrument RL Check	0F03039-CRL4	0F03039-022	06/03/20 11:49
Calibration Check	0F03039-CCV1	0F03039-036	06/03/20 13:01
Calibration Blank	0F03039-CCB1	0F03039-037	06/03/20 13:06
Calibration Check	0F03039-CCV2	0F03039-046	06/03/20 13:52
Calibration Blank	0F03039-CCB2	0F03039-047	06/03/20 13:57
Instrument RL Check	0F03039-CRL5	0F03039-048	06/03/20 14:02
Instrument RL Check	0F03039-CRL6	0F03039-049	06/03/20 14:07
Instrument RL Check	0F03039-CRL7	0F03039-050	06/03/20 14:15
Instrument RL Check	0F03039-CRL8	0F03039-051	06/03/20 14:21
Blank	0060121-BLK1	0F03039-056	06/03/20 14:46
LCS	0060121-BS1	0F03039-057	06/03/20 14:51
PDI-026SW-A-200521-01	A0E0669-01	0F03039-059	06/03/20 15:01
Calibration Check	0F03039-CCV3	0F03039-062	06/03/20 15:17
Calibration Blank	0F03039-CCB3	0F03039-063	06/03/20 15:22
Instrument RL Check	0F03039-CRL9	0F03039-064	06/03/20 15:29
Instrument RL Check	0F03039-CRLA	0F03039-065	06/03/20 15:34
Instrument RL Check	0F03039-CRLB	0F03039-066	06/03/20 15:39
Instrument RL Check	0F03039-CRLC	0F03039-067	06/03/20 15:44
Calibration Check	0F03039-CCV4	0F03039-078	06/03/20 16:40
Calibration Blank	0F03039-CCB4	0F03039-079	06/03/20 16:45
Calibration Check	0F03039-CCV5	0F03039-090	06/03/20 17:41
Calibration Blank	0F03039-CCB5	0F03039-091	06/03/20 17:46
Calibration Check	0F03039-CCV6	0F03039-102	06/03/20 18:42
Calibration Blank	0F03039-CCB6	0F03039-103	06/03/20 18:47
Calibration Check	0F03039-CCV7	0F03039-107	06/03/20 19:08
Calibration Blank	0F03039-CCB7	0F03039-108	06/03/20 19:13
Instrument RL Check	0F03039-CRLD	0F03039-109	06/03/20 19:18
Instrument RL Check	0F03039-CRLE	0F03039-110	06/03/20 19:23

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020A

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence:	0F03039	Instrument:	ICPMS5
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument RL Check	0F03039-CRLF	0F03039-111	06/03/20 19:28
Instrument RL Check	0F03039-CRLG	0F03039-112	06/03/20 19:33

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.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID: ICPMS5
Calibration: UNASSIGNED
Control Limt: +/- 10.00%
Sequence: 0F03039

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0F03039-ICV1	Arsenic	100	99.9	100	ug/L	EPA 6020A
	Chromium	100	96.3	96	ug/L	EPA 6020A
	Copper	100	102	102	ug/L	EPA 6020A
	Zinc	100	95.8	96	ug/L	EPA 6020A
0F03039-CCV1	Arsenic	100	98.2	98	ug/L	EPA 6020A
	Chromium	100	93.0	93	ug/L	EPA 6020A
	Copper	100	99.8	100	ug/L	EPA 6020A
	Zinc	100	97.1	97	ug/L	EPA 6020A
0F03039-CCV2	Arsenic	100	99.6	100	ug/L	EPA 6020A
	Chromium	100	95.5	96	ug/L	EPA 6020A
	Copper	100	102	102	ug/L	EPA 6020A
	Zinc	100	94.9	95	ug/L	EPA 6020A
0F03039-CCV3	Arsenic	100	98.0	98	ug/L	EPA 6020A
	Chromium	100	95.1	95	ug/L	EPA 6020A
	Copper	100	101	101	ug/L	EPA 6020A
	Zinc	100	94.7	95	ug/L	EPA 6020A
0F03039-CCV4	Arsenic	100	97.7	98	ug/L	EPA 6020A
	Chromium	100	93.4	93	ug/L	EPA 6020A
	Copper	100	98.7	99	ug/L	EPA 6020A
	Zinc	100	95.0	95	ug/L	EPA 6020A
0F03039-CCV5	Arsenic	100	98.5	98	ug/L	EPA 6020A
	Chromium	100	92.5	93	ug/L	EPA 6020A
	Copper	100	98.9	99	ug/L	EPA 6020A
	Zinc	100	94.6	95	ug/L	EPA 6020A
0F03039-CCV6	Arsenic	100	99.5	100	ug/L	EPA 6020A
	Chromium	100	92.0	92	ug/L	EPA 6020A
	Copper	100	99.1	99	ug/L	EPA 6020A
	Zinc	100	95.9	96	ug/L	EPA 6020A
0F03039-CCV7	Arsenic	100	96.6	97	ug/L	EPA 6020A
	Chromium	100	90.6	91	ug/L	EPA 6020A
	Copper	100	97.3	97	ug/L	EPA 6020A
	Zinc	100	94.9	95	ug/L	EPA 6020A

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: ICPMS5
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Sequence: 0F03039
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0F03039-ICB1	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
0F03039-CCB1	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
0F03039-CCB2	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0F03039-CCB3	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
0F03039-CCB4	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
0F03039-CCB5	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
0F03039-CCB6	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A
	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
0F03039-CCB7	Zinc	ND	1.80 (Inst)	ug/L		EPA 6020A
	Copper	ND	0.900 (Inst)	ug/L		EPA 6020A
	Arsenic	ND	0.450 (Inst)	ug/L		EPA 6020A
	Chromium	ND	0.450 (Inst)	ug/L		EPA 6020A

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

CRDL STANDARD

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID: ICPMS5
Calibration: UNASSIGNED
Sequence: 0F03039

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0F03039-CRL1	Arsenic	0.180	0.172	96	ug/L	70 - 130
	Chromium	0.180	0.207	115	ug/L	70 - 130
	Copper	0.180	0.161	90	ug/L	70 - 130
	Zinc	0.180	0.154	85	ug/L	70 - 130
0F03039-CRL2	Arsenic	0.900	0.913	101	ug/L	70 - 130
	Chromium	0.900	0.908	101	ug/L	70 - 130
	Copper	0.900	0.905	101	ug/L	70 - 130
	Zinc	0.900	0.881	98	ug/L	70 - 130
0F03039-CRL3	Arsenic	1.80	1.81	101	ug/L	70 - 130
	Chromium	1.80	1.71	95	ug/L	70 - 130
	Copper	1.80	1.85	103	ug/L	70 - 130
	Zinc	1.80	1.73	96	ug/L	70 - 130
0F03039-CRL4	Arsenic	3.60	3.51	98	ug/L	70 - 130
	Chromium	3.60	3.51	98	ug/L	70 - 130
	Copper	3.60	3.70	103	ug/L	70 - 130
	Zinc	3.60	3.64	101	ug/L	70 - 130
0F03039-CRL5	Arsenic	0.180	0.192	107	ug/L	70 - 130
	Copper	0.180	0.176	98	ug/L	70 - 130
0F03039-CRL6	Arsenic	0.900	0.974	108	ug/L	70 - 130
	Chromium	0.900	0.917	102	ug/L	70 - 130
	Copper	0.900	0.912	101	ug/L	70 - 130
	Zinc	0.900	1.11	124	ug/L	70 - 130
0F03039-CRL7	Arsenic	1.80	1.84	102	ug/L	70 - 130
	Chromium	1.80	1.79	100	ug/L	70 - 130
	Copper	1.80	1.86	103	ug/L	70 - 130
	Zinc	1.80	1.94	108	ug/L	70 - 130
0F03039-CRL8	Arsenic	3.60	3.74	104	ug/L	70 - 130
	Chromium	3.60	3.53	98	ug/L	70 - 130

CRDL STANDARD

EPA 6020A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Instrument ID: ICPMS5
Calibration: UNASSIGNED
Sequence: 0F03039

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0F03039-CRL8	Copper	3.60	3.92	109	ug/L	70 - 130
	Zinc	3.60	3.63	101	ug/L	70 - 130
0F03039-CRL9	Arsenic	0.180	0.188	104	ug/L	70 - 130
	Copper	0.180	0.203	113	ug/L	70 - 130
0F03039-CRLA	Arsenic	0.900	0.941	105	ug/L	70 - 130
	Chromium	0.900	0.929	103	ug/L	70 - 130
	Copper	0.900	0.996	111	ug/L	70 - 130
	Zinc	0.900	1.07	119	ug/L	70 - 130
0F03039-CRLB	Arsenic	1.80	1.87	104	ug/L	70 - 130
	Chromium	1.80	1.80	100	ug/L	70 - 130
	Copper	1.80	1.93	107	ug/L	70 - 130
	Zinc	1.80	1.85	103	ug/L	70 - 130
0F03039-CRLC	Arsenic	3.60	3.64	101	ug/L	70 - 130
	Chromium	3.60	3.54	98	ug/L	70 - 130
	Copper	3.60	3.72	103	ug/L	70 - 130
	Zinc	3.60	3.78	105	ug/L	70 - 130
0F03039-CRLD	Arsenic	0.180	0.197	109	ug/L	70 - 130
0F03039-CRLE	Arsenic	0.900	0.914	102	ug/L	70 - 130
	Chromium	0.900	0.901	100	ug/L	70 - 130
	Copper	0.900	1.04	115	ug/L	70 - 130
	Zinc	0.900	1.11	123	ug/L	70 - 130
0F03039-CRLF	Arsenic	1.80	1.83	101	ug/L	70 - 130
	Chromium	1.80	1.69	94	ug/L	70 - 130
	Copper	1.80	1.88	104	ug/L	70 - 130
	Zinc	1.80	1.81	101	ug/L	70 - 130
0F03039-CRLG	Arsenic	3.60	3.68	102	ug/L	70 - 130
	Chromium	3.60	3.38	94	ug/L	70 - 130
	Copper	3.60	3.85	107	ug/L	70 - 130

CRDL STANDARD

EPA 6020A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

Instrument ID: ICPMS5

Calibration: UNASSIGNED

Sequence: 0F03039

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0F03039-CRLG	Zinc	3.60	3.55	99	ug/L	70 - 130

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 6020A

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	06/03/20 10:37	12.88	180.00	06/03/20 15:01	13.06	180.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 2540 D

ANALYSES DATA PACKAGE COVER PAGE

SM 2540 D

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019

Project: Gasco PreRD_DG 2019 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM

Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units
Total Suspended Solids	5.00	5.00	mg/L

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

INORGANIC ANALYSIS DATA SHEET

SM 2540 D

PDI-026SW-A-200521-01

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix: WS
Laboratory ID: A0E0669-01
Sampled: 05/21/20 13:30
Prepared: 05/26/20 10:53
Analyzed: 05/27/20 13:03
Solids: N/A
Preparation: Total Suspended Solids
Initial/Final: 1 N/A / 1 N/A
Batch: 0050901
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
TSS	Total Suspended Solids	8.00	1		SM 2540 D

PREPARATION BATCH SUMMARY

SM 2540 D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Batch: 0050901 Batch Matrix: Water
Preparation: Total Suspended Solids

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050901-BLK1		05/26/20 10:53	
PDI-026SW-A-200521-01 (Dup)	0050901-DUP2		05/26/20 10:53	
Reference	0050901-SRM1		05/26/20 10:53	
PDI-026SW-A-200521-01	A0E0669-01		05/26/20 10:53	

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.

METHOD BLANK DATA SHEET
SM 2540 D

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix:	Water	Laboratory ID:	0050901-BLK1	File ID:	
Prepared:	05/26/20 10:53	Preparation:	Total Suspended Solids	Initial/Final:	1 N/A / 1 N/A
Analyzed:	05/27/20 13:03	Instrument:	Wet Chem Balance 1		
Batch:	0050901	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (mg/L)	Q
TSS	Total Suspended Solids	5.00	U

DUPLICATES

SM 2540 D

PDI-026SW-A-200521-01

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Water
Batch: 0050901
Preparation: Total Suspended Solids
Source Sample Name: PDI-026SW-A-200521-01

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Laboratory ID: 0050901-DUP2
Lab Source ID: A0E0669-01
Initial/Final: 1 N/A / 1 N/A
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Suspended Solids	10	8.00		11.0		32	*	SM 2540 D

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

SM 2540 D

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Matrix: Water
Batch: 0050901
Laboratory ID: 0050901-SRM1
Preparation: Total Suspended Solids
Initial/Final: 1 N/A / 1 N/A

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Total Suspended Solids	100	91.0	91	77.1 - 110

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 D

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	05/26/20 10:53	4.89	7.00	05/27/20 13:03	1.09		

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 4500-H+ B

ANALYSES DATA PACKAGE COVER PAGE

SM 4500-H+ B

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4d. Elutriate Testing

Client Sample Id:	Lab Sample Id:	Matrix
PDI-026SW-A-200521-01	A0E0669-01	WS

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: 7/23/2020 1:57PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 4500-H+ B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Test

Batch Matrix: Water

Analyte	MDL	MRL	Units

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

INORGANIC ANALYSIS DATA SHEET

SM 4500-H+ B

PDI-026SW-A-200521-01

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Matrix: WS
Laboratory ID: A0E0669-01
Sampled: 05/21/20 13:30
Prepared: 05/22/20 15:55
Analyzed: 05/23/20 16:30
Solids: N/A
Preparation: Method Prep: Aq
Initial/Final: 20 mL / 20 mL
Batch: 0050837
Calibration:
Instrument: pH meter 3

CAS NO.	Analyte	Concentration (pH Units)	Dilution Factor	Q	Method
pH	pH	7.59	1		SM 4500-H+ B
pH Temp	pH Temperature (deg C)	19.6	1		SM 4500-H+ B

PREPARATION BATCH SUMMARY

SM 4500-H+ B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing
Batch: 0050837 Batch Matrix: Water Preparation: Method Prep: Aq

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Reference	0050837-SRM1		05/22/20 08:36	
Reference	0050837-SRM2		05/22/20 08:36	
Reference	0050837-SRM3		05/22/20 08:36	
Reference	0050837-SRM4		05/22/20 08:36	
PDI-026SW-A-200521-01	A0E0669-01		05/22/20 15:55	

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.

STANDARD REFERENCE MATERIAL RECOVERY

SM 4500-H+ B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Matrix: Water
Batch: 0050837
Laboratory ID: 0050837-SRM1
Preparation: Method Prep: Aq
Initial/Final: 20 mL / 20 mL

ANALYTE	TRUE (pH Units)	FOUND (pH Units)	SRM % REC.	QC LIMITS REC.
pH	6.00	6.01	100	98.33333 - 101.6667
pH Temperature (deg C)	20.0	21.0	105	50 - 200

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

SM 4500-H+ B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testi

Matrix: Water

Batch: 0050837

Laboratory ID: 0050837-SRM2

Preparation: Method Prep: Aq

Initial/Final: 20 mL / 20 mL

ANALYTE	TRUE (pH Units)	FOUND (pH Units)	SRM % REC.	QC LIMITS REC.
pH	8.00	7.96	100	98.75 - 101.25
pH Temperature (deg C)	20.0	21.0	105	50 - 200

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

SM 4500-H+ B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Matrix: Water
Batch: 0050837
Laboratory ID: 0050837-SRM3
Preparation: Method Prep: Aq
Initial/Final: 20 mL / 20 mL

ANALYTE	TRUE (pH Units)	FOUND (pH Units)	SRM % REC.	QC LIMITS REC.
pH	6.00	6.03	100	98.33333 - 101.6667
pH Temperature (deg C)	20.0	21.8	109	50 - 200

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

SM 4500-H+ B

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testi
Matrix: Water
Batch: 0050837
Laboratory ID: 0050837-SRM4
Preparation: Method Prep: Aq
Initial/Final: 20 mL / 20 mL

ANALYTE	TRUE (pH Units)	FOUND (pH Units)	SRM % REC.	QC LIMITS REC.
pH	8.00	7.99	100	98.75 - 101.25
pH Temperature (deg C)	20.0	21.8	109	50 - 200

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 4500-H+ B

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4d. Elutriate Testing

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-026SW-A-200521-01	05/21/20 13:30	05/22/20 12:20	05/22/20 15:55	1.10	0.01	05/23/20 16:30	2.13	0.01	*

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

BTEX Compounds by EPA 8260C
Benchsheet & Analysis Sequence Data

Batch 0050888
Sequence 0E26033 (A0E0669-01)

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050888 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
0050888-BLK1		QC	05/26/20 08:00	5	5							
0050888-BS1		QC	05/26/20 08:00	5	5	A20E150		5				
0050888-BS2		QC	05/26/20 08:00	5	5	A20E074		5				
A0E0653-01RE1	B	8260D BTEX	05/22/20 13:00	5	5					Rinsate	20X RR-01	<2
A0E0659-01	A	NWTPH-Gx	05/26/20 10:16	5	5					MW2		<2
A0E0659-01	A	8260D RBDM List	05/26/20 10:16	5	5					MW2		<2
A0E0659-02	A	NWTPH-Gx	05/26/20 10:16	5	5					MW3		<2
A0E0659-02	A	8260D RBDM List	05/26/20 10:16	5	5					MW3		<2
A0E0659-03	A	NWTPH-Gx	05/26/20 10:16	5	5					MW4		<2
A0E0659-03	A	8260D RBDM List	05/26/20 10:16	5	5					MW4		<2
A0E0659-04	A	NWTPH-Gx	05/26/20 10:16	5	5					DW		<2
A0E0659-04	A	8260D RBDM List	05/26/20 10:16	5	5					DW		<2
A0E0659-04	A	8260D BTEX	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
A0E0659-04	A	8260D Full List	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
A0E0659-04	A	8260C BTEX	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
A0E0659-04	A	8260C BTEX+Halo6	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
0050888-DUP1		QC	05/26/20 10:16	5	5		A0E0659-04					<2
A0E0660-01	A	NWTPH-Gx	05/26/20 10:16	5	5					MW1		<2
A0E0660-01	A	8260D RBDM List	05/26/20 10:16	5	5					MW1		<2
A0E0660-02	A	8260D RBDM List	05/26/20 10:16	5	5					MW2		<2
A0E0660-02	A	NWTPH-Gx	05/26/20 10:16	5	5					MW2		<2
A0E0660-03	A	NWTPH-Gx	05/26/20 10:16	5	5					MW3		<2

PS 05/27/20
Prepared By: Date

dgj 5/27/20
Reviewed By: Date

PREPARATION BENCH SHEET

BATCH #: 0050888 (Water)

Apex Laboratories

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
A0E0660-03	A	8260D RBDM List	05/26/20 10:16	5	5					MW3		<2
A0E0660-04	A	8260D RBDM List	05/26/20 10:16	5	5					MW4		<2
A0E0660-04	A	NWTPH-Gx	05/26/20 10:16	5	5					MW4		<2
A0E0660-05	A	NWTPH-Gx	05/26/20 10:16	5	5					MW5		<2
A0E0660-05	A	8260D RBDM List	05/26/20 10:16	5	5					MW5		<2
A0E0660-06	A	8260C BTEX	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
A0E0660-06	A	8260D BTEX	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
A0E0660-06	A	8260C BTEX+Halo6	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
A0E0660-06	A	NWTPH-Gx	05/26/20 10:16	5	5					DW		<2
A0E0660-06	A	8260D RBDM List	05/26/20 10:16	5	5					DW		<2
A0E0660-06	A	8260D Full List	05/26/20 10:16	5	5					DW	Added for BatchQC in: 0050888	<2
0050888-MS1		QC	05/26/20 10:16	5	5	A20E150	A0E0660-06	5				<2
A0E0669-01	A	8260C BTEX	05/26/20 10:16	5	5					PDI-026SW-A-200521-01	EB only, MDL	<2
A0E0672-13	A	8260C BTEX+Halo6	05/26/20 10:16	5	5					PDI-TB-2005211520	CAP TESTING/Waters	<2
A0E0673-01	A	8260D Full List	05/26/20 10:16	5	5					Post Treatment		<2
A0E0673-02	A	8260D Full List	05/26/20 10:16	5	5					Main Chamber		<2
A0E0673-03	A	8260D Full List	05/26/20 10:16	5	5					Sed. Manhole	1/3 voas have HS	<2

*pH <2 verified PS 05/27/20

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E074	09/13/20	Prim NWTPH-Gx Spike (500 ug/mL)
A20E150	06/08/20	8260 Cal. Std. B VOCR+OXY Spike (20-40ug/m

Surrogate(s)

Std ID	Exp. Date	Description

PS 05/27/20
Prepared By: Date

dgj 5/27/20
Reviewed By: Date

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050888 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*

GCMS7

PS 05/27/20
Prepared By: Date

dgj 5/27/20
Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0E26033 Instrument: VOA-GCMS7

Date: **05/26/20 07:29** Calibration: **A0D3007**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E26033-IBL1	Water	QC	QC			A20D005	
2	0E26033-IBL2	Water	QC	QC			A20D005	
3	0E26033-TUN1	Water	QC	QC			A20D005	
4	0E26033-CCV1	Water	QC	QC			A20D005	
5	0050888-BS1	Water	QC	QC		0050888	A20D005	
6	0E26033-CCV2	Water	QC	QC			A20D005	
7	0050888-BS2	Water	QC	QC		0050888	A20D005	
8	0050888-BLK1	Water	QC	QC		0050888	A20D005	
9	0E26033-IBL3	Water	QC	QC			A20D005	
10	A0E0672-13	Water	8260C BTEX+Halo6	Anchor QEA, LLC	06/05/20	0050888	A20D005	
11	A0E0659-01	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
12	A0E0659-02	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
13	A0E0659-03	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
14	A0E0659-04	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx	"	05/29/20	0050888	A20D005	
"	"	Water	8260C BTEX	(QC Source)		0050888	A20D005	
"	"	Water	8260C BTEX+Halo6	(QC Source)		0050888	A20D005	
"	"	Water	8260D Full List	(QC Source)		0050888	A20D005	
"	"	Water	8260D BTEX	(QC Source)		0050888	A20D005	
15	0050888-DUP1	Water	QC	QC		0050888	A20D005	
16	A0E0660-01	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
17	A0E0660-02	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
18	A0E0660-03	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
19	A0E0660-04	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx		05/29/20	0050888	A20D005	
20	A0E0660-05	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx	"	05/29/20	0050888	A20D005	
21	0050888-MS1	Water	QC	QC		0050888	A20D005	
22	0E26033-IBL4	Water	QC	QC			A20D005	
23	A0E0669-01	Water	8260C BTEX	Anchor QEA, LLC	06/01/20	0050888	A20D005	
24	A0E0673-01	Water	8260D Full List		05/29/20	0050888	A20D005	
25	A0E0673-02	Water	8260D Full List		05/29/20	0050888	A20D005	
26	A0E0673-03	Water	8260D Full List		05/29/20	0050888	A20D005	
27	A0E0653-01RE1	Water	8260D BTEX		05/29/20	0050888	A20D005	
28	A0E0660-06	Water	8260D RBDM List		05/29/20	0050888	A20D005	
"	"	Water	NWTPH-Gx	"	05/29/20	0050888	A20D005	
"	"	Water	8260C BTEX	(QC Source)		0050888	A20D005	
"	"	Water	8260C BTEX+Halo6	(QC Source)		0050888	A20D005	
"	"	Water	8260D Full List	(QC Source)		0050888	A20D005	
"	"	Water	8260D BTEX	(QC Source)		0050888	A20D005	
29	0E26033-IBL5	Water	QC	QC			A20D005	
30	0E26033-IBL6	Water	QC	QC			A20D005	
31	0E26033-IBL7	Water	QC	QC			A20D005	
32	0E26033-IBL8	Water	QC	QC			A20D005	

Sequence:	0E26033	Instrument:	VOA-GCMS7		
Date:	**05/26/20 07:29**	Calibration:	**A0D3007**		

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID

Comments: cis-1,3- Dichloropropene - 1ppb MDL / 2ppb MRL

Data Entered By/Date: PS 05/27/20

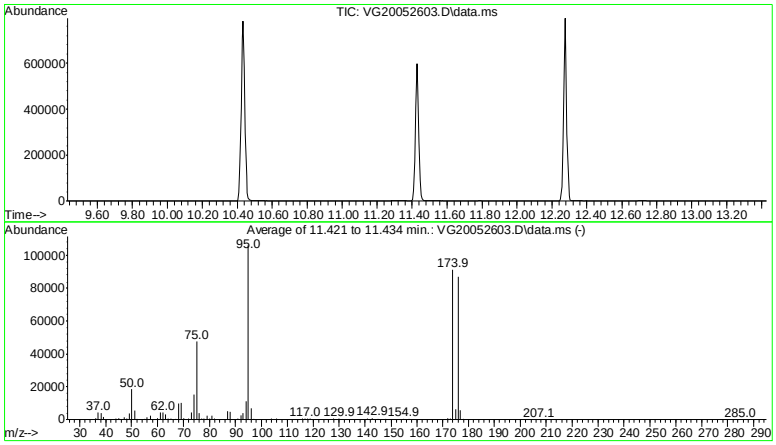
Data Reviewed By/Date: dgj 5/27/20

BFB

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052603.D
Acq On : 26 May 2020 8:59 am
Operator : PS
Sample : 0E26033-TUN1
Misc : A20D004 5mL BFB (IS/SURR) 05/26/20 tn
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	116.3	106112	PASS
96	95	5	9	6.5	6928	PASS
173	174	0.00	2	0.7	642	PASS
174	95	50	200	86.0	91227	PASS
175	174	5	9	7.1	6474	PASS
176	174	95	105	95.5	87141	PASS
177	176	5	10	6.6	5711	PASS

Quantitation Report (Not Reviewed)

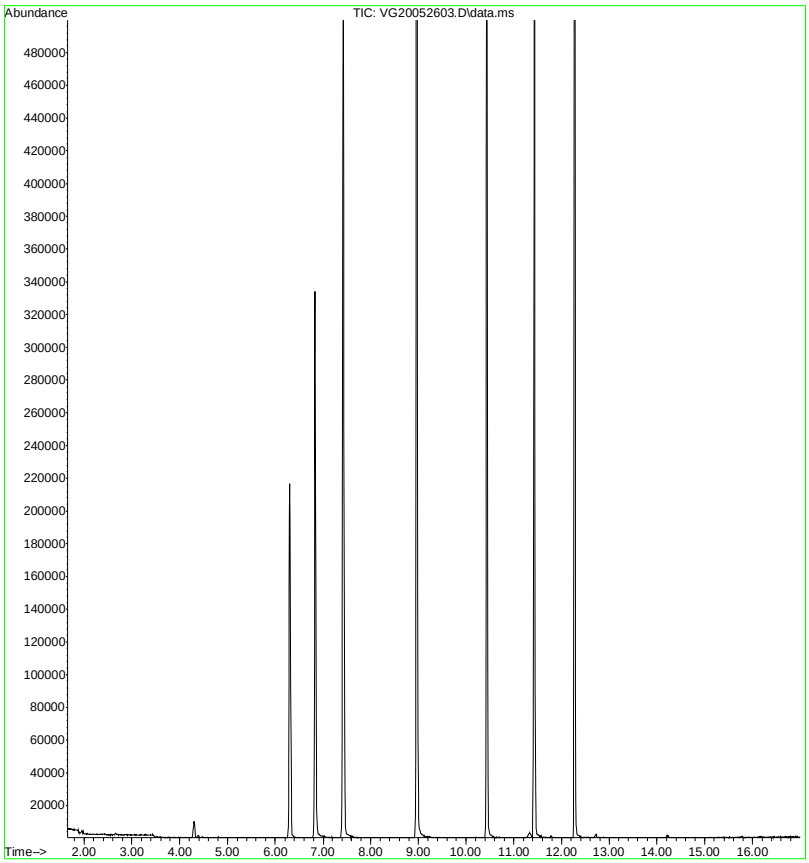
Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052603.D
Acq On : 26 May 2020 8:59 am
Operator : PS
Sample : 0E26033-TUN1
Misc : A20D004 5mL BFB (IS/SURR) 05/26/20 tn
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 26 11:53:51 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	129149	50.00	ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	400910	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	173996	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	148765	57.94	ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	463628	55.80	ug/L	0.00
48) Toluene-d8 (S)	8.965	98	540013	49.34	ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	145321	52.06	ug/L	0.00
Target Compounds						Qvalue
3) Chloromethane	1.978	50	330	0.10	ug/L	80
6) Chloroethane	2.722	64	43	Below Cal	#	47
8) Ethanol	3.612	45	43	0.64	ug/L #	29
14) Methylene Chloride	4.295	84	4665	1.59	ug/L	94
15) Acetone	4.386	43	1660	1.25	ug/L	94
19) tert-Butanol (TBA)	4.813	59	462	1.18	ug/L #	73
23) Vinyl Acetate	5.484	43	10	1.13	ug/L	74
46) 2-Chloroethyl Vinyl Ether	8.635	63	10	0.76	ug/L #	1
61) m,p-Xylenes (2)	10.617	91	72	0.15	ug/L #	34

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

File   :C:\msdchem\1\data\2020-05\0E26033\VG20052603.D
Operator   : PS
Acquired   : 26 May 2020   8:59 am using AcqMethod VG1808RUN.M
Instrument :   VOA-GCMS7
Sample Name: 0E26033-TUN1
Misc Info : A20D004 5mL BFB (IS/SURR)
Vial Number: 3



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052604.D
Acq On : 26 May 2020 9:26 am
Operator : PS
Sample : 0050888-BS1
Misc : 1X 5mL A20E150 20-40PPB VOCOR
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 11:55:10 2020 05/26/20 tn
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene (I)	50.000	50.000	0.0	97	0.00	
2		Dichlorodifluoromethane	20.000	16.955	15.2	87	0.00	
3	P	Chloromethane	20.000	18.067	9.7	93	0.00	
4	C	Vinyl Chloride	20.000	18.192	9.0	91	0.00	
5		Bromomethane	20.000	21.215	-6.1	100	0.00	
6		Chloroethane	20.000	20.303	-1.5	102	-0.01	
7		Trichlorofluoromethane	20.000	20.424	-2.1	103	-0.02	
8		Ethanol	1250.000	1224.185	2.1	94	0.00	
9	C	1,1-Dichloroethene	20.000	20.546	-2.7	98	0.00	
10		Carbon Disulfide	20.000	23.112	-15.6	105	0.00	
11		Freon 113	20.000	22.224	-11.1	108	-0.02	
12		Iodomethane	20.000	13.400	33.0#	67	0.00	NR
13		Acrolein	20.000	17.980	10.1	86	0.00	
14		Methylene Chloride	20.000	20.268	-1.3	98	0.00	
15		Acetone	40.000	37.550	6.1	91	-0.01	
16		t-1,2-Dichloroethene	20.000	20.364	-1.8	98	0.00	
17		n-Hexane	20.000	22.293	-11.5	107	0.00	
18		Methyl-tert-butyl-ether	20.000	22.921	-14.6	100	0.00	
19		tert-Butanol (TBA)	1250.000	1555.637	-24.5#	105	0.00	NR
20		Diisopropyl ether (DIPE)	5.000	4.715	5.7	85	0.00	
21	P	1,1-Dichloroethane	20.000	21.357	-6.8	101	0.00	
22		Acrylonitrile	20.000	20.412	-2.1	90	0.00	
23		Vinyl Acetate	20.000	18.541	7.3	110	0.00	
24		Ethyl-tert-butyl ether (ETB	5.000	5.201	-4.0	92	0.00	
25		c-1,2-Dichloroethene	20.000	20.959	-4.8	95	0.00	
26		2,2-Dichloropropane	20.000	29.352	-46.8#	136	-0.01	Q56
27		Bromochloromethane	20.000	20.017	-0.1	98	0.00	
28	C	Chloroform	20.000	21.306	-6.5	103	0.00	
29		Carbon Tetrachloride	20.000	25.204	-26.0#	110	0.00	Q56
30		Tetrahydrofuran	20.000	18.929	5.4	87	0.00	
31		1,1,1-Trichloroethane	20.000	23.167	-15.8	109	0.00	
32	S	Dibromofluoromethane (S)	50.000	52.547	-5.1	104	0.00	
33		1,1-Dichloropropene	20.000	22.491	-12.5	98	-0.01	
34		2-Butanone (MEK)	40.000	42.520	-6.3	94	0.00	

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052604.D
Acq On : 26 May 2020 9:26 am
Operator : PS
Sample : 0050888-BS1
Misc : 1X 5mL A20E150 20-40PPB VOCOR
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 11:55:10 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
35		Benzene	20.000	21.442	-7.2	97	0.00	
36		tert-Amyl methyl ether (TAM	5.000	5.347	-6.9	101	0.03	
37		1,2-Dichloroethane (EDC)	20.000	21.669	-8.3	103	0.00	
38		iso-Butyl Alcohol	500.000	508.414	-1.7	96	-0.01	
39	S	1,4-Difluorobenzene (S)	50.000	50.272	-0.5	100	0.00	
40		Trichloroethene (TCE)	20.000	20.042	-0.2	98	-0.01	
41		tert-Amyl ethyl ether (TAEE	5.000	5.370	-7.4	96	0.00	
42		Dibromomethane	20.000	21.739	-8.7	104	0.01	
43	C	1,2-Dichloropropane	20.000	20.675	-3.4	97	0.00	
44		Bromodichloromethane	20.000	22.809	-14.0	102	0.00	
45		Chlorobenzene-d5 (I)	50.000	50.000	0.0	103	0.00	
46		2-Chloroethyl Vinyl Ether	20.000	13.697	31.5#	70	0.00	NR
47		c-1,3-Dichloropropene	20.000	19.511	2.4	101	-0.01	
48	S	Toluene-d8 (S)	50.000	48.538	2.9	101	0.00	
49	C	Toluene	20.000	19.938	0.3	102	0.00	
50		Tetrachloroethene (PCE)	20.000	21.926	-9.6	107	0.00	
51		4-Methyl-2-Pentanone (MIBK)	40.000	39.592	1.0	93	-0.03	
52		t-1,3-Dichloropropene	20.000	20.774	-3.9	108	-0.02	
53		1,1,2-Trichloroethane	20.000	20.688	-3.4	102	-0.02	
54		Dibromochloromethane	20.000	20.032	-0.2	104	0.00	
55		1,3-Dichloropropane	20.000	20.075	-0.4	97	0.00	
56		1,2-Dibromoethane (EDB)	20.000	21.588	-7.9	100	0.00	
57		2-Hexanone	40.000	38.749	3.1	94	-0.03	
58	P	Chlorobenzene	20.000	20.211	-1.1	103	0.00	
59	C	Ethylbenzene	20.000	21.020	-5.1	101	0.00	
60		1,1,1,2-Tetrachloroethane	20.000	22.642	-13.2	108	0.00	
61		m,p-Xylenes (2)	40.000	40.641	-1.6	101	0.00	
62		o-Xylene	20.000	18.719	6.4	94	0.00	
63		Styrene	20.000	20.009	-0.0	99	-0.02	
64	P	Bromoform	20.000	19.829	0.9	108	0.00	
65		Isopropylbenzene	20.000	19.489	2.6	98	0.00	
66	I	1,4-Dichlorobenzene-d4 (I)	50.000	50.000	0.0	109	0.00	

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052604.D
Acq On : 26 May 2020 9:26 am
Operator : PS
Sample : 0050888-BS1
Misc : 1X 5mL A20E150 20-40PPB VOCOR
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 11:55:10 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
67	S	4-Bromofluorobenzene (S)	50.000	46.979	6.0	105	0.00
68		Bromobenzene	20.000	19.647	1.8	105	0.00
69		n-Propylbenzene	20.000	19.877	0.6	101	0.00
70	P	1,1,2,2-Tetrachloroethane	20.000	20.280	-1.4	111	-0.01
71		2-Chlorotoluene	20.000	19.951	0.2	102	0.00
72		1,3,5-Trimethylbenzene	20.000	21.254	-6.3	104	0.00
73		1,2,3-Trichloropropane	20.000	20.147	-0.7	106	0.00
74		t-1,4-Dichloro-2-butene	20.000	19.506	2.5	112	0.00
75		4-Chlorotoluene	20.000	20.443	-2.2	101	0.00
76		tert-Butylbenzene	20.000	20.187	-0.9	99	0.00
77		1,2,4-Trimethylbenzene	20.000	21.146	-5.7	103	0.00
78		sec-Butylbenzene	20.000	20.386	-1.9	101	0.00
79		4-Isopropyltoluene	20.000	19.268	3.7	102	0.00
80		1,3-Dichlorobenzene	20.000	21.053	-5.3	107	0.00
81		1,4-Dichlorobenzene	20.000	19.612	1.9	109	0.00
82		n-Butylbenzene	20.000	20.524	-2.6	101	0.00
83		1,2-Dichlorobenzene	20.000	21.251	-6.3	106	0.00
84		1,2-Dibromo-3-Chloropropane	20.000	19.598	2.0	107	0.00
85		Hexachlorobutadiene	20.000	21.462	-7.3	108	0.00
86		1,2,4-Trichlorobenzene	20.000	18.687	6.6	95	-0.02
87		Naphthalene	20.000	17.561	12.2	91	-0.01
88		1,2,3-Trichlorobenzene	20.000	21.215	-6.1	100	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052604.D
Acq On : 26 May 2020 9:26 am
Operator : PS
Sample : 0050888-BS1
Misc : 1X 5mL A20E150 20-40PPB VOCOR
ALS Vial : 4 Sample Multiplier: 1

05/26/20 tn

Quant Time: May 26 11:55:10 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	141455	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	412967	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	211616	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	147785	52.55	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	457528	50.27	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	547265	48.54	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	159490	46.98	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	49853	16.96	ug/L		99
3) Chloromethane	1.978	50	62993	18.07	ug/L		98
4) Vinyl Chloride	2.100	62	63377	18.19	ug/L		97
5) Bromomethane	2.533	96	44165	21.22	ug/L		98
6) Chloroethane	2.710	64	21476	20.30	ug/L		92
7) Trichlorofluoromethane	2.899	101	72421	20.42	ug/L		99
8) Ethanol	3.618	45	89662	1224.18	ug/L		84
9) 1,1-Dichloroethene	3.563	61	80928	20.55	ug/L		96
10) Carbon Disulfide	3.563	76	113838	23.11	ug/L		99
11) Freon 113	3.636	101	55304	22.22	ug/L		94
12) Iodomethane	3.728	142	10276	13.40	ug/L		95
13) Acrolein	4.014	56	12396	17.98	ug/L		97
14) Methylene Chloride	4.295	84	65318	20.27	ug/L		95
15) Acetone	4.380	43	54537	37.55	ug/L		98
16) t-1,2-Dichloroethene	4.484	61	78354	20.36	ug/L		96
17) n-Hexane	4.587	86	7988	22.29	ug/L	#	51
18) Methyl-tert-butyl-ether	4.636	73	143149	22.92	ug/L		98
19) tert-Butanol (TBA)	4.801	59	666485	1555.64	ug/L	#	81
20) Diisopropyl ether (DIPE)	5.087	45	33217	4.72	ug/L		96
21) 1,1-Dichloroethane	5.191	63	108454	21.36	ug/L		99
22) Acrylonitrile	5.264	53	32672	20.41	ug/L		95
23) Vinyl Acetate	5.502	43	92168	18.54	ug/L		93
24) Ethyl-tert-butyl ether...	5.496	59	28305	5.20	ug/L		93
25) c-1,2-Dichloroethene	5.795	61	77536	20.96	ug/L		97
26) 2,2-Dichloropropane	5.910	77	62812	29.35	ug/L		84
27) Bromochloromethane	6.014	49	55706	20.02	ug/L		95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052604.D
Acq On : 26 May 2020 9:26 am
Operator : PS
Sample : 0050888-BS1
Misc : 1X 5mL A20E150 20-40PPB VOCOR
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 11:55:10 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Chloroform	6.112	83	104162	21.31	ug/L		96
29) Carbon Tetrachloride	6.240	117	62354	25.20	ug/L		94
30) Tetrahydrofuran	6.282	42	26082	18.93	ug/L		91
31) 1,1,1-Trichloroethane	6.319	97	81970	23.17	ug/L		96
33) 1,1-Dichloropropene	6.453	75	73990	22.49	ug/L		97
34) 2-Butanone (MEK)	6.453	43	90366	42.52	ug/L		99
35) Benzene	6.727	78	240714	21.44	ug/L		98
36) tert-Amyl methyl ether...	6.867	73	28832	5.35	ug/L		81
37) 1,2-Dichloroethane (EDC)	6.959	62	82709	21.67	ug/L		98
38) iso-Butyl Alcohol	7.020	43	136044	508.41	ug/L		91
40) Trichloroethene (TCE)	7.380	130	62165	20.04	ug/L		94
41) tert-Amyl ethyl ether ...	7.660	59	19342	5.37	ug/L		92
42) Dibromomethane	7.855	93	41341	21.74	ug/L		90
43) 1,2-Dichloropropane	7.971	63	62510	20.68	ug/L		96
44) Bromodichloromethane	8.050	83	69260	22.81	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.715	63	17687	13.70	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	77529	19.51	ug/L		95
49) Toluene	9.019	91	260297	19.94	ug/L		99
50) Tetrachloroethene (PCE)	9.410	166	59197	21.93	ug/L		91
51) 4-Methyl-2-Pentanone (...	9.410	43	169166	39.59	ug/L		98
52) t-1,3-Dichloropropene	9.446	75	74625	20.77	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	60859	20.69	ug/L		98
54) Dibromochloromethane	9.769	129	53569	20.03	ug/L		97
55) 1,3-Dichloropropane	9.855	76	94566	20.08	ug/L		97
56) 1,2-Dibromoethane (EDB)	9.983	107	59225	21.59	ug/L		99
57) 2-Hexanone	10.190	43	122789	38.75	ug/L		98
58) Chlorobenzene	10.446	112	166323	20.21	ug/L		99
59) Ethylbenzene	10.470	91	271029	21.02	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	52913	22.64	ug/L		95
61) m,p-Xylenes (2)	10.592	91	401255	40.64	ug/L		98
62) o-Xylene	10.952	91	181245	18.72	ug/L		98
63) Styrene	10.995	104	154856	20.01	ug/L		99
64) Bromoform	11.019	173	38112	19.83	ug/L		98
65) Isopropylbenzene	11.202	105	219450	19.49	ug/L		98
68) Bromobenzene	11.513	156	68142	19.65	ug/L		90
69) n-Propylbenzene	11.525	91	273819	19.88	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	86932	20.28	ug/L		97
71) 2-Chlorotoluene	11.653	126	57326	19.95	ug/L		99

Quantitation Report (Not Reviewed)

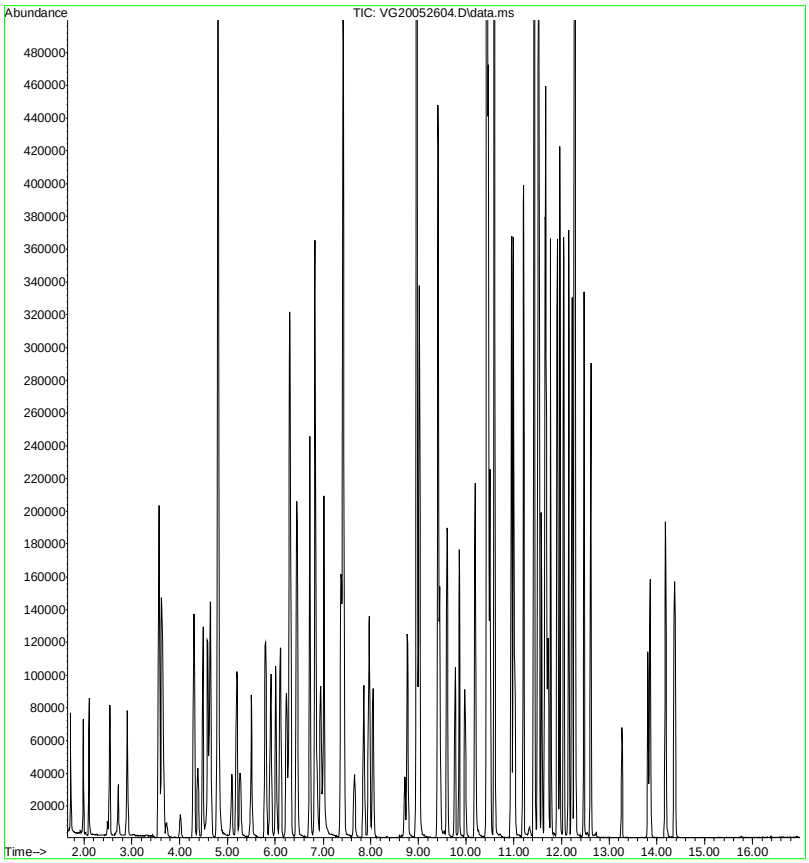
Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052604.D
Acq On : 26 May 2020 9:26 am
Operator : PS
Sample : 0050888-BS1
Misc : 1X 5mL A20E150 20-40PPB VOCOR
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 11:55:10 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72) 1,3,5-Trimethylbenzene	11.671	105	190852	21.25	ug/L		94
73) 1,2,3-Trichloropropane	11.690	110	27188	20.15	ug/L	#	76
74) t-1,4-Dichloro-2-butene	11.720	88	9084	19.51	ug/L	#	83
75) 4-Chlorotoluene	11.775	91	173253	20.44	ug/L		96
76) tert-Butylbenzene	11.915	91	93073	20.19	ug/L		94
77) 1,2,4-Trimethylbenzene	11.964	105	187605	21.15	ug/L		96
78) sec-Butylbenzene	12.043	105	211842	20.39	ug/L		95
79) 4-Isopropyltoluene	12.147	119	165785	19.27	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	115762	21.05	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	122614	19.61	ug/L		96
82) n-Butylbenzene	12.470	91	151921	20.52	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	111030	21.25	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	16387	19.60	ug/L		76
85) Hexachlorobutadiene	13.811	223	13783	21.46	ug/L		94
86) 1,2,4-Trichlorobenzene	13.854	180	51799	18.69	ug/L		97
87) Naphthalene	14.177	128	159567	17.56	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	55671	21.21	ug/L		98

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

File :C:\msdchem\1\data\2020-05\0E26033\VG20052604.D
Operator : PS
Acquired : 26 May 2020 9:26 am using AcqMethod VG1808RUN.M
Instrument : VOA-GCMS7
Sample Name: 0050888-BS1
Misc Info : 1X 5mL A20E150 20-40PPB VOCOR
Vial Number: 4



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052605.D
Acq On : 26 May 2020 9:53 am
Operator : PS
Sample : 0050888-BS2
Misc : 1X 5mL A20E074 500PPB GX 05/26/20 tnl
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 26 11:55:38 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (IS)	50.000	50.000	0.0	107	0.00
2	S	1,4-Difluorobenzene (Sur)	50.000	49.122	1.8	105	0.00
3	S	4-Bromofluorobenzene (Sur)	50.000	50.074	-0.1	108	0.00
4	H	NWTPH-Gx (TPH)	500.000	419.277	16.1	98	0.00
5	H	TPHg (C5-C9)	500.000	433.315	13.3	98	0.00
6	H	TPHg (C6-C10)	500.000	438.567	12.3	100	0.00
7	H	CA-LUFT (C5-C12)	500.000	426.606	14.7	97	0.00
8		Benzene (NR)	-1.000	0.000	0.0	0	0.00
9	S	Toluene-d8 (NR)	-1.000	0.000	0.0	0	0.00
10		Toluene (NR)	-1.000	0.000	0.0	0	0.00
11	S	Chlorobenzene-d5 (NR)	-1.000	0.000	0.0	0	0.00
12	S	1,4-Dichlorobenzene-d4 (NR)	-1.000	0.000	0.0	0	0.00
13		Naphthalene (NR)	-1.000	0.000	0.0	0	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052605.D
Acq On : 26 May 2020 9:53 am
Operator : PS
Sample : 0050888-BS2
Misc : 1X 5mL A20E074 500PPB GX
ALS Vial : 5 Sample Multiplier: 1

05/26/20 tnl

Quant Time: May 26 11:55:38 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration

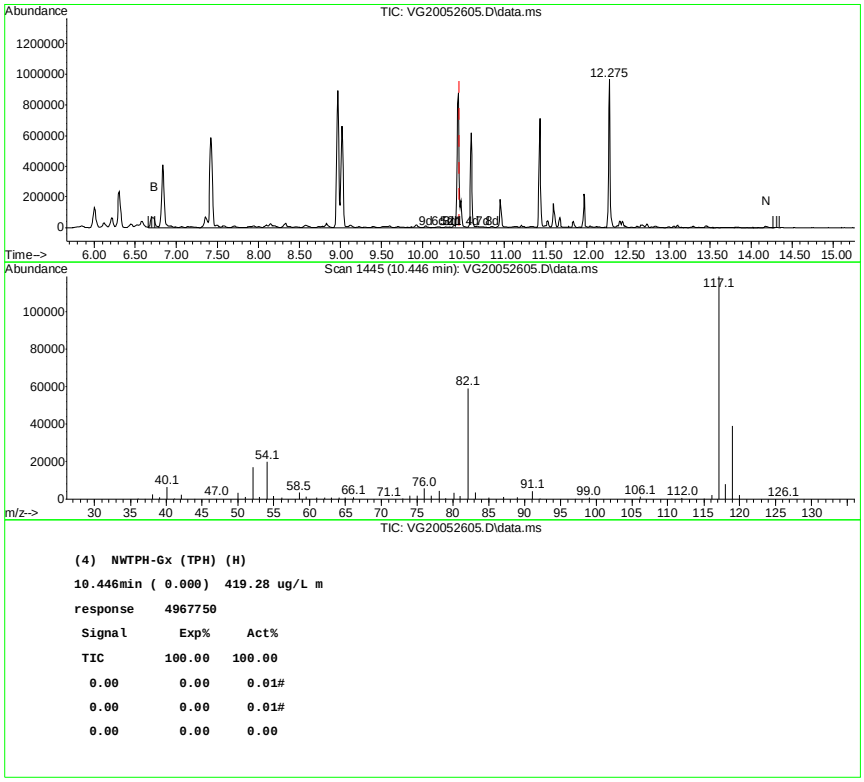
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	6.837	168	320345	50.00 ug/L	0.00
System Monitoring Compounds					
2) 1,4-Difluorobenzene (Sur)	7.422	114	527794	49.12 ug/L	0.00
3) 4-Bromofluorobenzene (...	11.428	174	171119	50.07 ug/L	0.00
9) Toluene-d8 (NR)	8.965	98	615497	0.00 ug/L	0.00
11) Chlorobenzene-d5 (NR)	10.434	117	452471	0.00 ug/L	0.00
12) 1,4-Dichlorobenzene-d4...	12.275	150	336078	0.00 ug/L	0.00
Target Compounds					Qvalue
4) NWTPH-Gx (TPH)	10.446	TIC	4967750m	419.28 ug/L	
5) TPHg (C5-C9)	10.446	TIC	6456378m	433.32 ug/L	
6) TPHg (C6-C10)	10.446	TIC	5654869m	438.57 ug/L	
7) CA-LUFT (C5-C12)	10.446	TIC	7704866m	426.61 ug/L	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052605.D
Acq On : 26 May 2020 9:53 am
Operator : PS
Sample : 0050888-BS2
Misc : 1X 5mL A20E074 500PPB GX
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 26 11:55:38 2020
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration



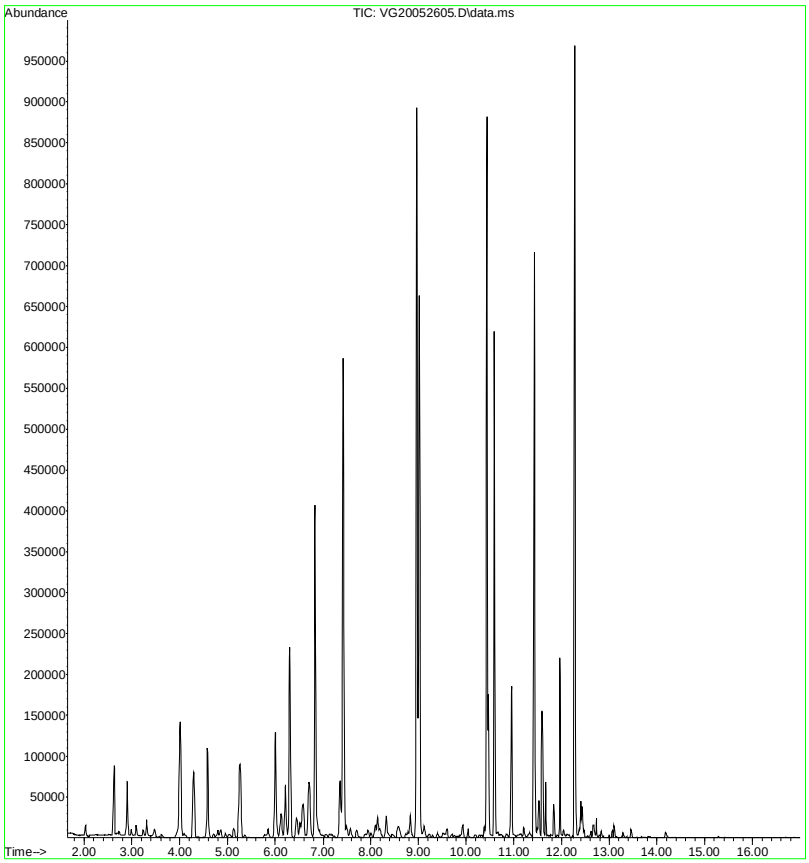
(4) NWTPH-Gx (TPH) (H)

10.446min (0.000) 419.28 ug/L m

response 4967750

Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.01#
0.00	0.00	0.01#
0.00	0.00	0.00

File   :C:\msdchem\1\data\2020-05\0E26033\VG20052605.D
Operator   : PS
Acquired   : 26 May 2020   9:53 am using AcqMethod VG1808RUN.M
Instrument :   VOA-GCMS7
Sample Name: 0050888-BS2
Misc Info : 1X   5mL A20E074 500PPB GX
Vial Number: 5



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052606.D
Acq On : 26 May 2020 10:21 am
Operator : PS
Sample : 0050888-BLK1
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 11:56:30 2020 05/26/20 tn
Quant Method : C:\msdchem\1\methods\VG200429G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 30 13:33:36 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	6.837	168	287105	50.00 ug/L	0.00
System Monitoring Compounds					
2) 1,4-Difluorobenzene (Sur)	7.422	114	522302	54.24 ug/L	0.00
3) 4-Bromofluorobenzene (...	11.428	174	162484	53.05 ug/L	0.00
9) Toluene-d8 (NR)	8.965	98	602914	0.00 ug/L	0.00
11) Chlorobenzene-d5 (NR)	10.434	117	449010	0.00 ug/L	0.00
12) 1,4-Dichlorobenzene-d4...	12.275	150	307637	0.00 ug/L	0.00
Target Compounds					Qvalue
4) NWTPH-Gx (TPH)	10.446	TIC	67968m	23.97 ug/L	
5) TPHg (C5-C9)	10.446	TIC	602424m	29.44 ug/L	
6) TPHg (C6-C10)	10.446	TIC	574660m	32.94 ug/L	
7) CA-LUFT (C5-C12)	10.446	TIC	610270m	35.21 ug/L	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052606.D
Acq On : 26 May 2020 10:21 am
Operator : PS
Sample : 0050888-BLK1
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 11:57:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	145348	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	447034	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	195583	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	163148	56.46	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	521566	55.77	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	602117	49.33	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	161726	51.54	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.972	50	465	0.13	ug/L		77
5) Bromomethane	2.545	96	180	0.08	ug/L		81
6) Chloroethane	2.728	64	63	Below Cal		#	47
8) Ethanol	3.612	45	124	1.65	ug/L	#	29
14) Methylene Chloride	4.301	84	5177	1.56	ug/L		96
15) Acetone	4.392	43	1656	1.11	ug/L		98
19) tert-Butanol (TBA)	4.807	59	305	0.69	ug/L	#	10
23) Vinyl Acetate	5.435	43	10	1.13	ug/L	#	1
49) Toluene	9.019	91	2076	0.15	ug/L		88
61) m,p-Xylenes (2)	10.604	91	839	0.22	ug/L		97
62) o-Xylene	10.952	91	228	0.11	ug/L	#	60
65) Isopropylbenzene	11.214	105	33	0.19	ug/L		53
77) 1,2,4-Trimethylbenzene	11.970	105	267	0.19	ug/L		70
79) 4-Isopropyltoluene	12.147	119	125	0.17	ug/L		51
86) 1,2,4-Trichlorobenzene	13.854	180	40	0.26	ug/L	#	15
87) Naphthalene	14.189	128	115	0.91	ug/L		79

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052606.D
Acq On : 26 May 2020 10:21 am
Operator : PS
Sample : 0050888-BLK1 05/26/20 tn
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 11:58:10 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

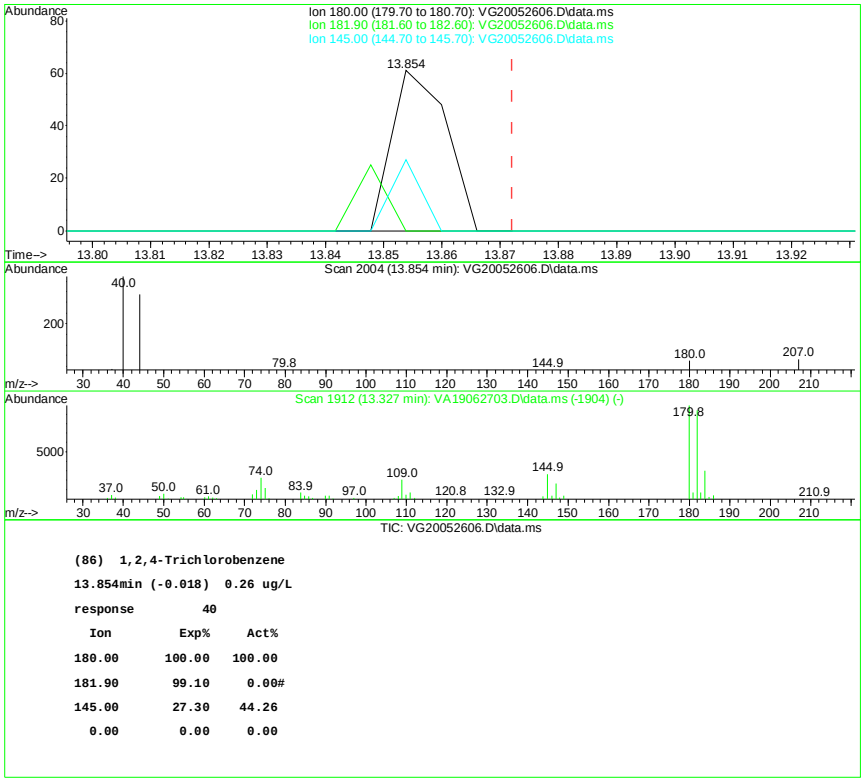
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	145348	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	447034	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	195583	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	163148	56.46	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	521566	55.77	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	602117	49.33	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	161726	51.54	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.972	50	465	0.13	ug/L		77
5) Bromomethane	2.545	96	180	0.08	ug/L		81
6) Chloroethane	2.728	64	63	Below Cal		#	47
14) Methylene Chloride	4.301	84	5177	1.56	ug/L		96
15) Acetone	4.392	43	1656	1.11	ug/L		98
19) tert-Butanol (TBA)	4.807	59	305	0.69	ug/L	#	10
49) Toluene	9.019	91	2076	0.15	ug/L		88
61) m,p-Xylenes (2)	10.604	91	839	0.22	ug/L		97
62) o-Xylene	10.952	91	228	0.11	ug/L	#	60
77) 1,2,4-Trimethylbenzene	11.970	105	267	0.19	ug/L		70
87) Naphthalene	14.189	128	115	0.91	ug/L		79

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052606.D
Acq On : 26 May 2020 10:21 am
Operator : PS
Sample : 0050888-BLK1
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 11:57:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



(86) 1,2,4-Trichlorobenzene

13.854min (-0.018) 0.26 ug/L

response 40

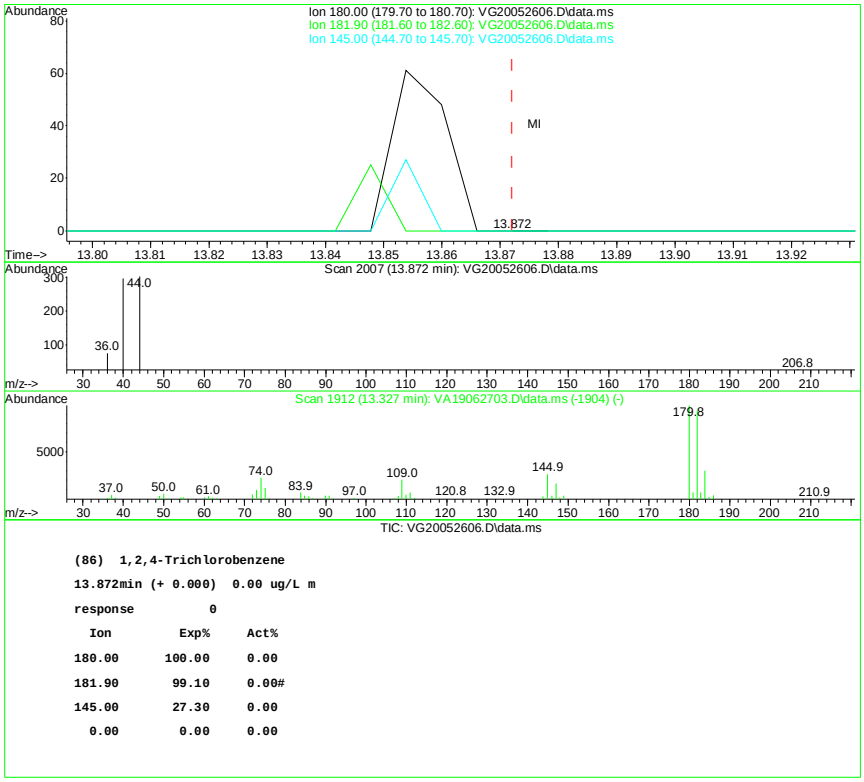
Ion	Exp%	Act%
180.00	100.00	100.00
181.90	99.10	0.00#
145.00	27.30	44.26
0.00	0.00	0.00

VG200429W.M Tue May 26 11:58:01 2020 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052606.D
Acq On : 26 May 2020 10:21 am
Operator : PS
Sample : 0050888-BLK1
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 11:57:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



(86) 1,2,4-Trichlorobenzene

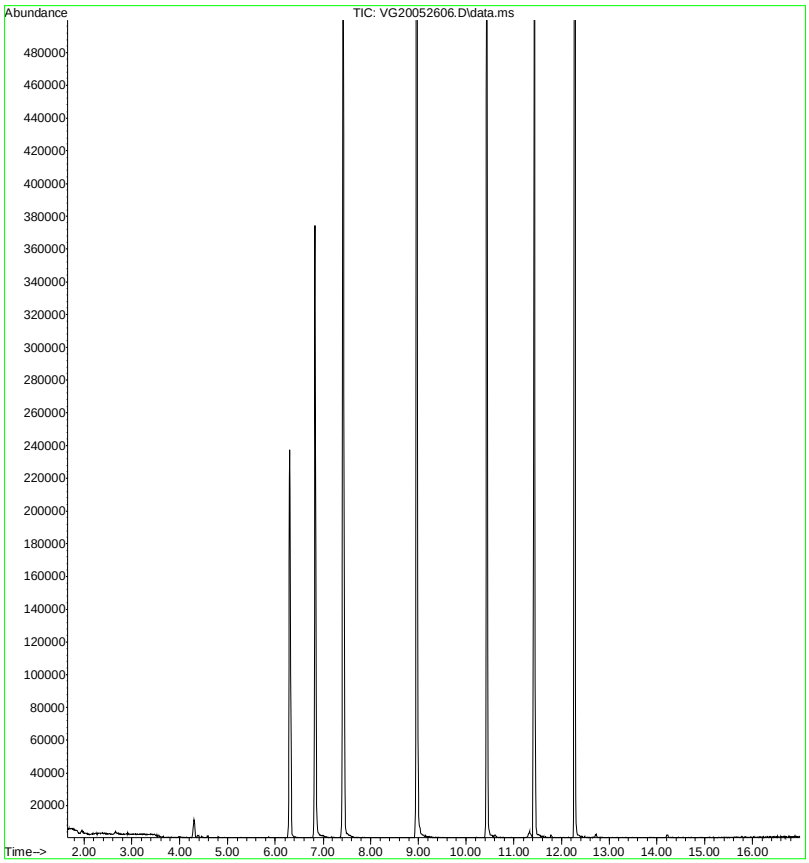
13.872min (+ 0.000) 0.00 ug/L m

response 0

Ion	Exp%	Act%
180.00	100.00	0.00
181.90	99.10	0.00#
145.00	27.30	0.00
0.00	0.00	0.00

VG200429W.M Tue May 26 11:58:18 2020 Page: 1

File :C:\msdchem\1\data\2020-05\0E26033\VG20052606.D
Operator : PS
Acquired : 26 May 2020 10:21 am using AcqMethod VG1808RUN.M
Instrument : VOA-GCMS7
Sample Name: 0050888-BLK1
Misc Info : 1X 5mL DI
Vial Number: 6



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052623.D
Acq On : 26 May 2020 6:02 pm
Operator : PS
Sample : A0E0669-01
Misc : 1X 5mL BTEX
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 27 08:36:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

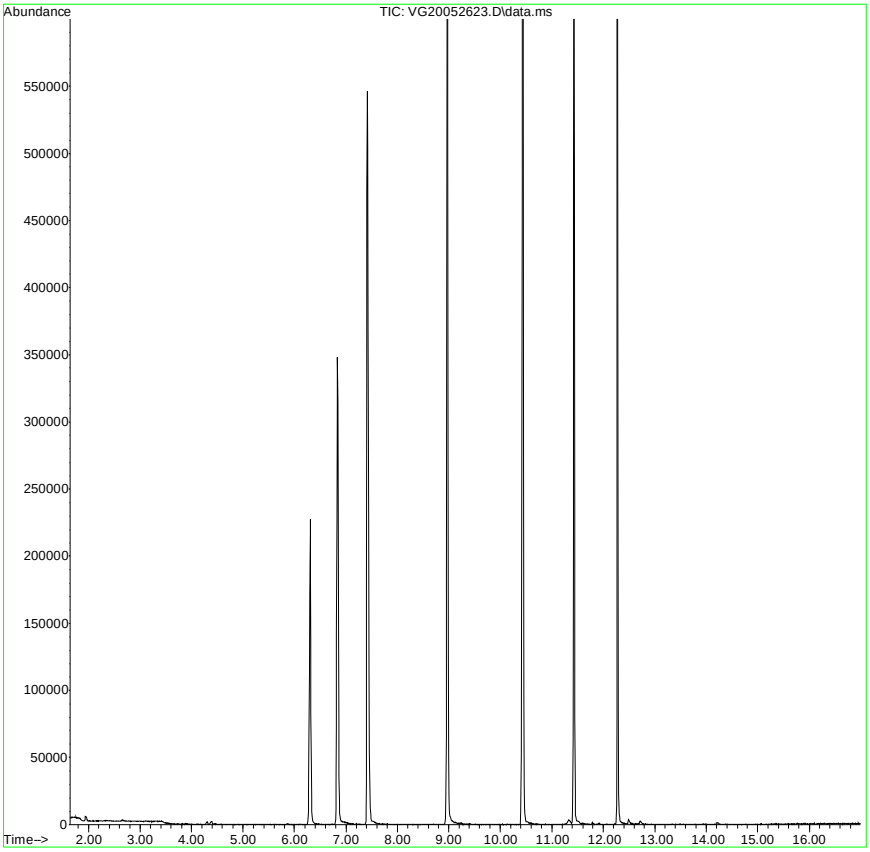
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	133634	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	416927	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	186806	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	155948	58.69	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	487650	56.72	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	567597	49.86	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	152985	51.05	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.972	50	371	0.11	ug/L	#	54
5) Bromomethane	2.539	96	234	0.12	ug/L		75
6) Chloroethane	2.716	64	10	Below Cal		#	47
8) Ethanol	3.618	45	78	1.13	ug/L	#	29
10) Carbon Disulfide	3.569	76	374	0.08	ug/L		92
14) Methylene Chloride	4.295	84	541	0.18	ug/L		82
15) Acetone	4.386	43	2734	1.99	ug/L		95
23) Vinyl Acetate	5.435	43	10	1.13	ug/L		74
46) 2-Chloroethyl Vinyl Ether	8.617	63	18	0.76	ug/L	#	1
52) t-1,3-Dichloropropene	9.489	75	10	0.35	ug/L	#	45
61) m,p-Xylenes (2)	10.598	91	320	0.17	ug/L		87
62) o-Xylene	10.964	91	60	0.09	ug/L	#	35
65) Isopropylbenzene	11.208	105	69	0.19	ug/L		53
77) 1,2,4-Trimethylbenzene	11.970	105	81	0.16	ug/L		90
79) 4-Isopropyltoluene	12.147	119	108	0.17	ug/L		65
86) 1,2,4-Trichlorobenzene	13.866	180	42	0.26	ug/L	#	11
87) Naphthalene	14.195	128	44	0.90	ug/L		79

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052623.D
Acq On : 26 May 2020 6:02 pm
Operator : PS
Sample : A0E0669-01
Misc : 1X 5mL BTEX
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 27 08:36:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052623.D
Acq On : 26 May 2020 6:02 pm
Operator : PS
Sample : A0E0669-01
Misc : 1X 5mL BTEX
ALS Vial : 23 Sample Multiplier: 1

PS 05/27/20

Quant Time: May 27 08:36:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
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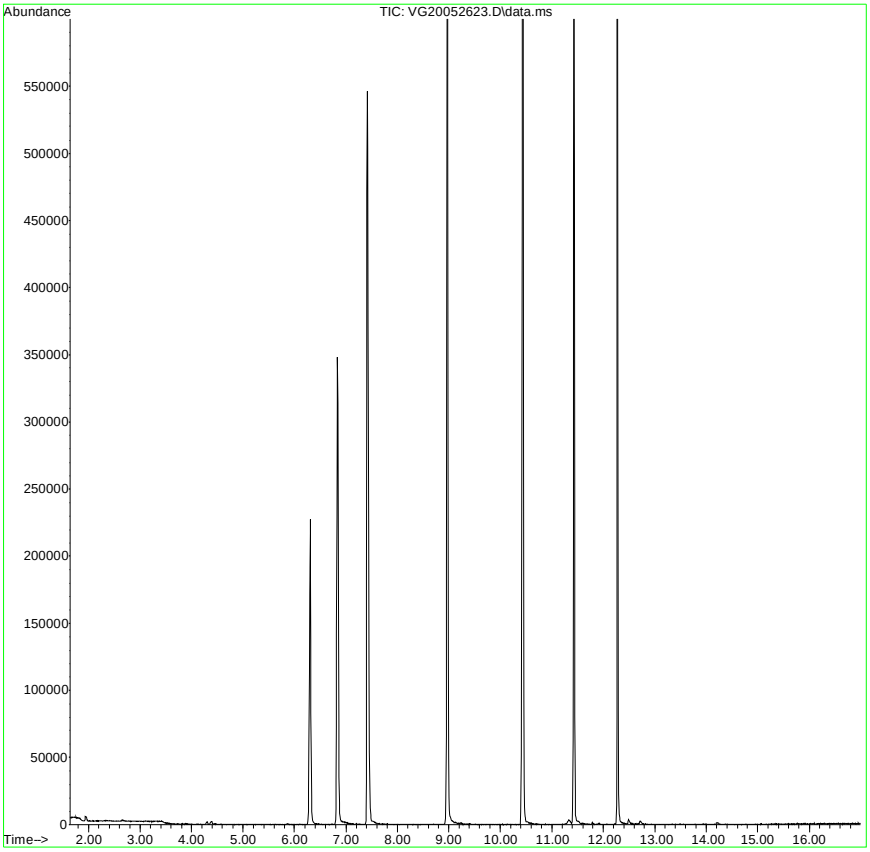
45) Chlorobenzene-d5 (I)	10.434	117	416927	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	186806	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	155948	58.69	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	487650	56.72	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	567597	49.86	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	152985	51.05	ug/L		0.00
Target Compounds							Qvalue
3) Chloromethane	1.972	50	371	0.11	ug/L	#	54
5) Bromomethane	2.539	96	234	0.12	ug/L		75
6) Chloroethane	2.716	64	10	Below Cal		#	47
8) Ethanol	3.618	45	78	1.13	ug/L	#	29
10) Carbon Disulfide	3.569	76	374	0.08	ug/L		92
14) Methylene Chloride	4.295	84	541	0.18	ug/L		82
15) Acetone	4.386	43	2734	1.99	ug/L		95
23) Vinyl Acetate	5.435	43	10	1.13	ug/L		74
46) 2-Chloroethyl Vinyl Ether	8.617	63	18	0.76	ug/L	#	1
52) t-1,3-Dichloropropene	9.489	75	10	0.35	ug/L	#	45
61) m,p-Xylenes (2)	10.598	91	320	0.17	ug/L		87
62) o-Xylene	10.964	91	60	0.09	ug/L	#	35
65) Isopropylbenzene	11.208	105	69	0.19	ug/L		53
77) 1,2,4-Trimethylbenzene	11.970	105	81	0.16	ug/L		90
79) 4-Isopropyltoluene	12.147	119	108	0.17	ug/L		65
86) 1,2,4-Trichlorobenzene	13.866	180	42	0.26	ug/L	#	11
87) Naphthalene	14.195	128	44	0.90	ug/L		79

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E26033\
Data File : VG20052623.D
Acq On : 26 May 2020 6:02 pm
Operator : PS
Sample : A0E0669-01
Misc : 1X 5mL BTEX
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 27 08:36:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



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

BTEX Compounds by EPA 8260C
Calibration Data

Sequence 0D28059 (Cal ID A0D3007) VOA-GCMS7

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0D28059	Instrument:	VOA-GCMS7
Date:	04/28/20 13:33	Calibration:	A0D3007

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0D28059-IBL1	Water	QC	QC			A20D005	
2	0D28059-IBL2	Water	QC	QC			A20D005	
3	0D28059-TUN1	Water	QC	QC			A20D005	
4	0D28059-ICB1	Water	QC	QC			A20D005	
5	0D28059-CAL1	Water	QC	QC			A20D005	A20D369
6	0D28059-CAL2	Water	QC	QC			A20D005	A20D370
7	0D28059-CAL3	Water	QC	QC			A20D005	A20D371
8	0D28059-CAL4	Water	QC	QC			A20D005	A20D372
9	0D28059-CAL5	Water	QC	QC			A20D005	A20D373
10	0D28059-CAL6	Water	QC	QC			A20D005	A20D374
11	0D28059-CAL7	Water	QC	QC			A20D005	A20D375
12	0D28059-CAL8	Water	QC	QC			A20D005	A20D376
13	0D28059-CAL9	Water	QC	QC			A20D005	A20D377
14	0D28059-IBL3	Water	QC	QC			A20D005	
15	0D28059-CALA	Water	QC	QC			A20C050	A20D378
16	0D28059-IBL4	Water	QC	QC			A20D005	
17	0D28059-CALB	Water	QC	QC			A20D005	A20D379
18	0D28059-IBL5	Water	QC	QC			A20D005	
19	0D28059-IBL6	Water	QC	QC			A20D005	
20	0D28059-ICV1	Water	QC	QC			A20D005	A20D380
21	0D28059-IBL7	Water	QC	QC			A20D005	

Data Entered By: 5/2/20

Comments: C-13 DCP ↑ MDL MRL to 1/2 ppb

Data Reviewed By: 5/7/20

Calibration Status Report VOA-GCMS7

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	0	50	C:\msdchem\1\data\2020-04\0D28059\VG20042805.D
2	2	0	50	C:\msdchem\1\data\2020-04\0D28059\VG20042806.D
3	3	0	50	C:\msdchem\1\data\2020-04\0D28059\VG20042807.D
4	4	1	50	C:\msdchem\1\data\2020-04\0D28059\VG20042808.D
5	5	2	50	C:\msdchem\1\data\2020-04\0D28059\VG20042809.D
6	6	5	50	C:\msdchem\1\data\2020-04\0D28059\VG20042810.D
7	7	10	50	C:\msdchem\1\data\2020-04\0D28059\VG20042811.D
8	8	20	50	C:\msdchem\1\data\2020-04\0D28059\VG20042812.D
9	9	50	50	C:\msdchem\1\data\2020-04\0D28059\VG20042813.D
10	10	100	50	C:\msdchem\1\data\2020-04\0D28059\VG20042815.D
11	1a	200	50	C:\msdchem\1\data\2020-04\0D28059\VG20042817.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Apr 29 15:17 2020	Apr 29 14:35 2020	28 Apr 2020 3:49 pm
2	2	Apr 29 15:17 2020	Apr 29 14:38 2020	28 Apr 2020 4:16 pm
3	3	Apr 29 15:17 2020	Apr 29 14:40 2020	28 Apr 2020 4:43 pm
4	4	Apr 29 15:17 2020	Apr 29 14:44 2020	28 Apr 2020 5:10 pm
5	5	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 5:37 pm
6	6	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 6:04 pm
7	7	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 6:31 pm
8	8	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 6:58 pm
9	9	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 7:25 pm
10	10	Apr 29 15:17 2020	Apr 29 14:27 2020	28 Apr 2020 8:19 pm
11	1a	Apr 29 15:17 2020	Apr 29 15:14 2020	28 Apr 2020 9:14 pm

4/30/20 JM

VG200429W.M Thu Apr 30 09:39:27 2020

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D28059

Analysis Included
8260D Oxygenates
QC - 624x/8260x All Cpds for Studies

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0D28059-TUN1	MS Tune	Water		A20D005	4/28/2020 2:55:00PM
0D28059-ICB1	Initial Cal Blank	Water		A20D005	4/28/2020 3:22:00PM
0D28059-CAL1	Cal Standard	Water	A20D369	"	4/28/2020 3:49:00PM
0D28059-CAL2	Cal Standard	Water	A20D370	"	4/28/2020 4:16:00PM
0D28059-CAL3	Cal Standard	Water	A20D371	"	4/28/2020 4:43:00PM
0D28059-CAL4	Cal Standard	Water	A20D372	"	4/28/2020 5:10:00PM
0D28059-CAL5	Cal Standard	Water	A20D373	"	4/28/2020 5:37:00PM
0D28059-CAL6	Cal Standard	Water	A20D374	"	4/28/2020 6:04:00PM
0D28059-CAL7	Cal Standard	Water	A20D375	"	4/28/2020 6:31:00PM
0D28059-CAL8	Cal Standard	Water	A20D376	"	4/28/2020 6:58:00PM
0D28059-CAL9	Cal Standard	Water	A20D377	"	4/28/2020 7:25:00PM
0D28059-CALA	Cal Standard	Water	A20D378	"	4/28/2020 8:19:00PM
0D28059-CALB	Cal Standard	Water	A20D379	"	4/28/2020 9:14:00PM
0D28059-ICV1	Initial Cal Check	Water	A20D380	"	4/28/2020 10:35:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0D3007** Instrument: **VOA-GCMS7**

8260D Oxygenates Sequence: **0D28059** Matrix: **Water**

0D28059-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D28059-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D28059

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: **A0D3007** Instrument: **VOA-GCMS7**

QC - 624x/8260x All Cpds for Sequence: **0D28059** Matrix: **Water**

0D28059-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 : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

4/30/2020

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (I)	50.000	50.000	0.0	110	0.00
2		Dichlorodifluoromethane	20.000	18.504	7.5	107	0.00
3	P	Chloromethane	20.000	18.340	8.3	106	0.00
4	C	Vinyl Chloride	20.000	19.493	2.5	110	0.00
5		Bromomethane	20.000	17.822	10.9	95	0.00
6		Chloroethane	20.000	14.757	26.2#	87	-0.02
7		Trichlorofluoromethane	20.000	19.723	1.4	113	-0.02
8		Ethanol	1250.000	1263.279	-1.1	110	0.00
9	C	1,1-Dichloroethene	20.000	17.041	14.8	92	0.00
10		Carbon Disulfide	20.000	17.463	12.7	90	0.00
11		Freon 113	20.000	17.668	11.7	97	-0.02
12		Iodomethane	20.000	21.574	-7.9	151	0.00
13		Acrolein	20.000	20.795	-4.0	112	0.00
14		Methylene Chloride	20.000	19.501	2.5	107	0.00
15		Acetone	40.000	39.624	0.9	109	-0.01
16		t-1,2-Dichloroethene	20.000	19.300	3.5	105	0.00
17		n-Hexane	20.000	18.672	6.6	101	0.00
18		Methyl-tert-butyl-ether	20.000	21.575	-7.9	106	0.00
19		tert-Butanol (TBA)	1250.000	1500.934	-20.1#	114	0.00
20		Diisopropyl ether (DIPE)	5.000	5.695	-13.9	115	0.00
21	P	1,1-Dichloroethane	20.000	20.127	-0.6	107	0.00
22		Acrylonitrile	20.000	20.813	-4.1	104	0.00
23		Vinyl Acetate	20.000	17.408	13.0	116	0.00
24		Ethyl-tert-butyl ether (ETB	5.000	5.744	-14.9	115	0.00
25		c-1,2-Dichloroethene	20.000	20.917	-4.6	107	0.00
26		2,2-Dichloropropane	20.000	18.186	9.1	95	-0.02
27		Bromochloromethane	20.000	18.887	5.6	104	-0.01
28	C	Chloroform	20.000	20.115	-0.6	109	0.00
29		Carbon Tetrachloride	20.000	21.601	-8.0	107	-0.01
30		Tetrahydrofuran	20.000	21.782	-8.9	113	0.00
31		1,1,1-Trichloroethane	20.000	20.202	-1.0	107	0.00
32	S	Dibromofluoromethane (S)	50.000	48.965	2.1	109	0.00
33		1,1-Dichloropropene	20.000	22.133	-10.7	109	-0.01
34		2-Butanone (MEK)	40.000	42.530	-6.3	106	0.00
35		Benzene	20.000	21.063	-5.3	108	-0.01
36		tert-Amyl methyl ether (TAM	5.000	5.177	-3.5	110	0.04
37		1,2-Dichloroethane (EDC)	20.000	20.314	-1.6	109	0.00
38		iso-Butyl Alcohol	500.000	517.932	-3.6	111	-0.01
39	S	1,4-Difluorobenzene (S)	50.000	49.148	1.7	110	0.00
40		Trichloroethene (TCE)	20.000	20.191	-1.0	111	-0.01
41		tert-Amyl ethyl ether (TAEE	5.000	5.754	-15.1	116	0.00
42		Dibromomethane	20.000	19.967	0.2	107	0.01
43	C	1,2-Dichloropropane	20.000	20.841	-4.2	110	-0.01
44		Bromodichloromethane	20.000	21.748	-8.7	110	0.00
45		Chlorobenzene-d5 (I)	50.000	50.000	0.0	110	0.00
46		2-Chloroethyl Vinyl Ether	20.000	19.387	3.1	108	0.00
47		c-1,3-Dichloropropene	20.000	19.401	3.0	108	-0.01
48	S	Toluene-d8 (S)	50.000	49.727	0.5	110	0.00
49	C	Toluene	20.000	20.024	-0.1	110	0.00
50		Tetrachloroethene (PCE)	20.000	21.392	-7.0	111	0.00
51		4-Methyl-2-Pentanone (MIBK)	40.000	42.797	-7.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		t-1,3-Dichloropropene	20.000	19.596	2.0	108	-0.02
53		1,1,2-Trichloroethane	20.000	21.106	-5.5	111	-0.02
54		Dibromochloromethane	20.000	20.363	-1.8	113	0.00
55		1,3-Dichloropropane	20.000	21.675	-8.4	111	0.00
56		1,2-Dibromoethane (EDB)	20.000	22.396	-12.0	110	0.00
57		2-Hexanone	40.000	40.500	-1.3	105	-0.03
58	P	Chlorobenzene	20.000	20.650	-3.2	112	0.00
59	C	Ethylbenzene	20.000	21.775	-8.9	112	-0.01
60		1,1,1,2-Tetrachloroethane	20.000	21.609	-8.0	110	0.00
61		m,p-Xylenes (2)	40.000	42.080	-5.2	112	0.00
62		o-Xylene	20.000	20.873	-4.4	113	0.00
63		Styrene	20.000	21.254	-6.3	113	-0.02
64	P	Bromoform	20.000	19.954	0.2	116	0.00
65		Isopropylbenzene	20.000	21.225	-6.1	114	0.00
66	I	1,4-Dichlorobenzene-d4 (I)	50.000	50.000	0.0	111	0.00
67	S	4-Bromofluorobenzene (S)	50.000	48.872	2.3	111	0.00
68		Bromobenzene	20.000	20.754	-3.8	113	0.00
69		n-Propylbenzene	20.000	21.936	-9.7	113	0.00
70	P	1,1,2,2-Tetrachloroethane	20.000	21.008	-5.0	116	-0.02
71		2-Chlorotoluene	20.000	22.013	-10.1	115	-0.01
72		1,3,5-Trimethylbenzene	20.000	23.221	-16.1	115	0.00
73		1,2,3-Trichloropropane	20.000	21.436	-7.2	114	0.00
74		t-1,4-Dichloro-2-butene	20.000	16.088	19.6	94	0.00
75		4-Chlorotoluene	20.000	22.659	-13.3	113	0.00
76		tert-Butylbenzene	20.000	23.439	-17.2	117	0.00
77		1,2,4-Trimethylbenzene	20.000	22.968	-14.8	114	0.00
78		sec-Butylbenzene	20.000	23.116	-15.6	117	0.00
79		4-Isopropyltoluene	20.000	22.000	-10.0	118	0.00
80		1,3-Dichlorobenzene	20.000	22.912	-14.6	118	0.00
81		1,4-Dichlorobenzene	20.000	20.904	-4.5	118	0.00
82		n-Butylbenzene	20.000	23.263	-16.3	117	0.00
83		1,2-Dichlorobenzene	20.000	23.492	-17.5	119	0.00
84		1,2-Dibromo-3-Chloropropane	20.000	20.694	-3.5	115	0.00
85		Hexachlorobutadiene	20.000	23.931	-19.7	122	0.00
86		1,2,4-Trichlorobenzene	20.000	23.716	-18.6	122	-0.02
87		Naphthalene	20.000	23.159	-15.8	123	-0.01
88		1,2,3-Trichlorobenzene	20.000	25.846	-29.2#	124	0.00

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

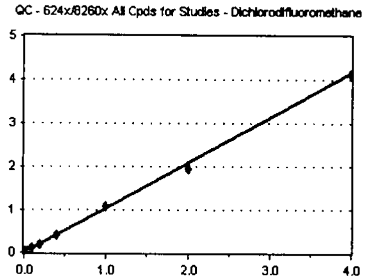
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Dichlorodifluoromethane

Curve Fit: **AVERAGE RF**

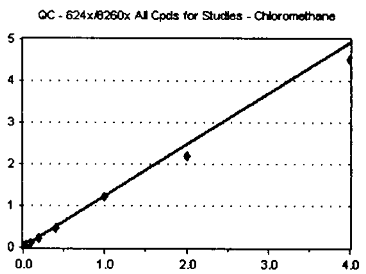


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	304	1.339	1.72
0D28059-CAL2	0.2	527	1.047	1.72
0D28059-CAL3	0.4	1133	1.088	1.72
0D28059-CAL4	1	2775	0.996	1.72
0D28059-CAL5	2	5002	0.982	1.72
0D28059-CAL6	5	13847	0.970	1.72
0D28059-CAL7	10	26239	0.941	1.72
0D28059-CAL8	20	57105	0.983	1.72
0D28059-CAL9	50	168157	1.078	1.72
0D28059-CALA	100	315312	0.975	1.72
0D28059-CALB	200	721756	1.032	1.72

AVE RF **1.039** RF RSD **10.57** AVE RT **1.72**

Chloromethane

Curve Fit: **AVERAGE RF**

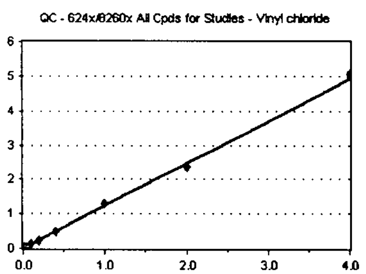


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~466~~	~~2.052~~	~~1.98~~
0D28059-CAL2	0.2	787	1.563	1.98
0D28059-CAL3	0.4	1524	1.464	1.98
0D28059-CAL4	1	3403	1.222	1.98
0D28059-CAL5	2	6051	1.188	1.98
0D28059-CAL6	5	16598	1.162	1.98
0D28059-CAL7	10	31411	1.126	1.98
0D28059-CAL8	20	68020	1.171	1.98
0D28059-CAL9	50	188663	1.210	1.98
0D28059-CALA	100	352785	1.091	1.98
0D28059-CALB	200	787402	1.126	1.98

AVE RF **1.232** RF RSD **12.60** AVE RT **1.98**

Vinyl chloride

Curve Fit: **AVERAGE RF**

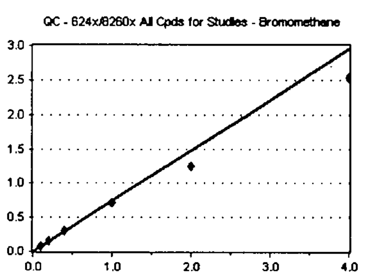


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	315	1.387	2.10
0D28059-CAL2	0.2	651	1.293	2.09
0D28059-CAL3	0.4	1260	1.211	2.10
0D28059-CAL4	1	3373	1.211	2.10
0D28059-CAL5	2	5945	1.168	2.10
0D28059-CAL6	5	16642	1.165	2.10
0D28059-CAL7	10	32203	1.155	2.10
0D28059-CAL8	20	69809	1.202	2.10
0D28059-CAL9	50	203097	1.302	2.10
0D28059-CALA	100	384111	1.188	2.10
0D28059-CALB	200	883409	1.263	2.09

AVE RF **1.231** RF RSD **5.86** AVE RT **2.10**

Bromomethane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~385~~	~~1.696~~	~~2.53~~
~~0D28059-CAL2~~	~~0.2~~	~~645~~	~~1.281~~	~~2.53~~
~~0D28059-CAL3~~	~~0.4~~	~~1137~~	~~1.092~~	~~2.53~~
~~0D28059-CAL4~~	~~1~~	~~2726~~	~~0.979~~	~~2.53~~
~~0D28059-CAL5~~	~~2~~	~~4637~~	~~0.911~~	~~2.53~~
0D28059-CAL6	5	12504	0.876	2.53
0D28059-CAL7	10	22785	0.817	2.53
0D28059-CAL8	20	44234	0.762	2.53
0D28059-CAL9	50	110130	0.706	2.53
0D28059-CALA	100	201722	0.624	2.53
0D28059-CALB	200	441017	0.630	2.53

AVE RF **0.736** RF RSD **13.77** AVE RT **2.53**

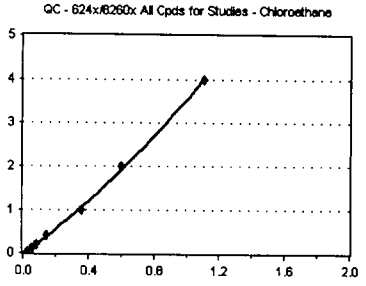
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Chloroethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

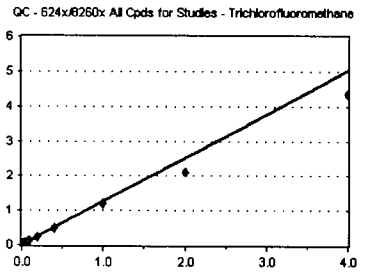


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~290~~	~~1.277~~	~~2.72~~
~~0D28059-CAL2~~	~~0.2~~	~~472~~	~~0.938~~	~~2.72~~
~~0D28059-CAL3~~	~~0.4~~	~~872~~	~~0.838~~	~~2.71~~
~~0D28059-CAL4~~	~~1~~	~~1901~~	~~0.683~~	~~2.72~~
0D28059-CAL5	2	3098	0.608	2.72
0D28059-CAL6	5	8320	0.583	2.71
0D28059-CAL7	10	11336	0.407	2.71
0D28059-CAL8	20	21007	0.362	2.70
0D28059-CAL9	50	56347	0.361	2.71
0D28059-CALA	100	97391	0.301	2.70
0D28059-CALB	200	193450	0.277	2.70

AVE RF **0.414** RF RSD **31.70** AVE RT **2.71**

Trichlorofluoromethane

Curve Fit: **AVERAGE RF**

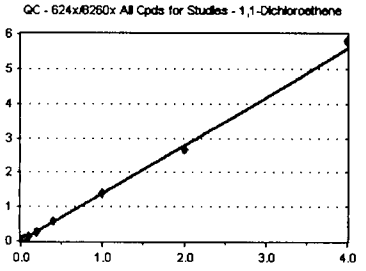


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	352	1.550	2.92
0D28059-CAL2	0.2	715	1.420	2.91
0D28059-CAL3	0.4	1409	1.354	2.91
0D28059-CAL4	1	3593	1.290	2.91
0D28059-CAL5	2	6259	1.229	2.91
0D28059-CAL6	5	17523	1.227	2.91
0D28059-CAL7	10	32312	1.159	2.91
0D28059-CAL8	20	70026	1.206	2.90
0D28059-CAL9	50	188165	1.207	2.91
0D28059-CALA	100	341980	1.058	2.90
0D28059-CALB	200	760605	1.087	2.89

AVE RF **1.253** RF RSD **11.51** AVE RT **2.91**

1,1-Dichloroethene

Curve Fit: **AVERAGE RF**

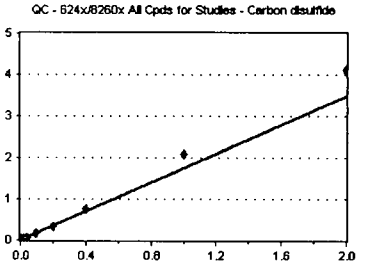


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	356	1.568	3.56
0D28059-CAL2	0.2	711	1.412	3.56
0D28059-CAL3	0.4	1450	1.393	3.57
0D28059-CAL4	1	3806	1.367	3.56
0D28059-CAL5	2	6691	1.314	3.57
0D28059-CAL6	5	18814	1.317	3.56
0D28059-CAL7	10	37076	1.330	3.56
0D28059-CAL8	20	82498	1.421	3.56
0D28059-CAL9	50	219956	1.410	3.56
0D28059-CALA	100	431318	1.334	3.56
0D28059-CALB	200	1013280	1.449	3.56

AVE RF **1.392** RF RSD **5.34** AVE RT **3.56**

Carbon disulfide

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~488~~	~~2.149~~	~~3.57~~
0D28059-CAL2	0.2	850	1.688	3.56
0D28059-CAL3	0.4	1760	1.691	3.57
0D28059-CAL4	1	4285	1.539	3.57
0D28059-CAL5	2	7686	1.509	3.57
0D28059-CAL6	5	22924	1.605	3.56
0D28059-CAL7	10	45558	1.634	3.56
0D28059-CAL8	20	107913	1.858	3.56
0D28059-CAL9	50	325731	2.089	3.56
0D28059-CALA	100	664668	2.056	3.56
~~0D28059-CALB~~	~~200~~	~~1647933~~	~~2.356~~	~~3.56~~

AVE RF **1.741** RF RSD **12.24** AVE RT **3.57**

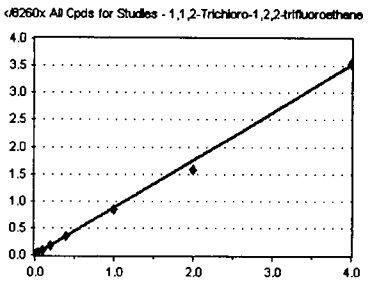
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1,2-Trichloro-1,2,2-trifluoroetha

Curve Fit: **AVERAGE RF**

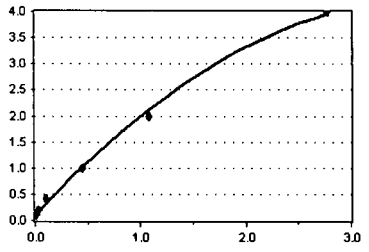


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	229	1.009	3.66
0D28059-CAL2	0.2	435	0.864	3.65
0D28059-CAL3	0.4	969	0.931	3.64
0D28059-CAL4	1	2465	0.885	3.64
0D28059-CAL5	2	4428	0.870	3.64
0D28059-CAL6	5	12599	0.882	3.64
0D28059-CAL7	10	23367	0.838	3.64
0D28059-CAL8	20	50999	0.878	3.64
0D28059-CAL9	50	132348	0.849	3.64
0D28059-CALA	100	253439	0.784	3.64
0D28059-CALB	200	619841	0.886	3.63

AVE RF **0.880** RF RSD **6.38** AVE RT **3.64**

Iodomethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

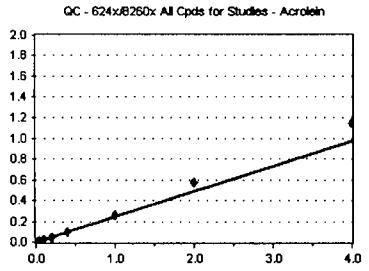


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL4~~	~~1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL5~~	~~2~~	~~271~~	~~5.322~~	~~3.74~~
0D28059-CAL6	5	1498	0.105	3.73
0D28059-CAL7	10	4602	0.165	3.73
0D28059-CAL8	20	15447	0.266	3.73
0D28059-CAL9	50	70400	0.451	3.73
0D28059-CALA	100	174901	0.541	3.72
0D28059-CALB	200	484444	0.693	3.72

AVE RF **0.370** RF RSD **61.96** AVE RT **3.73**

Acrolein

Curve Fit: **AVERAGE RF**

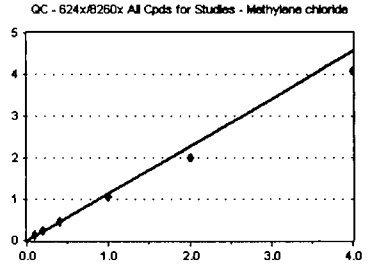


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~172~~	~~0.165~~	~~4.01~~
0D28059-CAL4	1	625	0.224	4.01
0D28059-CAL5	2	1033	0.203	4.01
0D28059-CAL6	5	3041	0.213	4.01
0D28059-CAL7	10	6310	0.226	4.01
0D28059-CAL8	20	14426	0.248	4.01
0D28059-CAL9	50	40730	0.261	4.01
0D28059-CALA	100	92724	0.287	4.01
0D28059-CALB	200	200485	0.287	4.01

AVE RF **0.244** RF RSD **13.26** AVE RT **4.01**

Methylene chloride

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~3714~~	~~16.357~~	~~4.30~~
~~0D28059-CAL2~~	~~0.2~~	~~5057~~	~~10.045~~	~~4.30~~
~~0D28059-CAL3~~	~~0.4~~	~~4387~~	~~4.215~~	~~4.30~~
~~0D28059-CAL4~~	~~1~~	~~8586~~	~~3.083~~	~~4.30~~
~~0D28059-CAL5~~	~~2~~	~~10556~~	~~2.073~~	~~4.30~~
0D28059-CAL6	5	19953	1.397	4.30
0D28059-CAL7	10	33896	1.216	4.30
0D28059-CAL8	20	66422	1.144	4.30
0D28059-CAL9	50	166231	1.066	4.30
0D28059-CALA	100	321685	0.995	4.30
0D28059-CALB	200	711544	1.017	4.30

AVE RF **1.139** RF RSD **13.22** AVE RT **4.30**

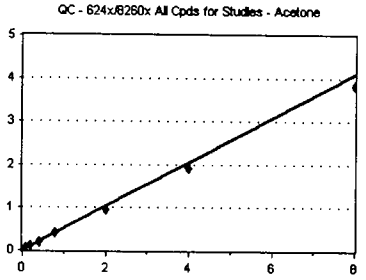
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Acetone

Curve Fit: **AVERAGE RF**

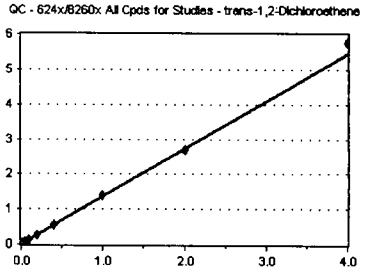


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~1500~~	~~3.303~~	~~4.39~~
~~0D28059-CAL2~~	~~0.4~~	~~1950~~	~~1.937~~	~~4.39~~
~~0D28059-CAL3~~	~~0.8~~	~~2217~~	~~1.065~~	~~4.39~~
~~0D28059-CAL4~~	~~2~~	~~3885~~	~~0.698~~	~~4.39~~
0D28059-CAL5	4	6410	0.629	4.38
0D28059-CAL6	10	14762	0.517	4.38
0D28059-CAL7	20	28163	0.505	4.38
0D28059-CAL8	40	59628	0.513	4.38
0D28059-CAL9	100	147679	0.474	4.37
0D28059-CALA	200	308105	0.476	4.37
0D28059-CALB	400	670089	0.479	4.38

AVE RF **0.513** RF RSD **10.58** AVE RT **4.38**

trans-1,2-Dichloroethene

Curve Fit: **AVERAGE RF**

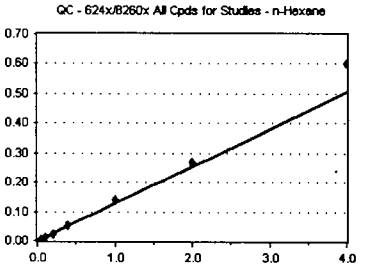


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	387	1.704	4.49
0D28059-CAL2	0.2	652	1.295	4.49
0D28059-CAL3	0.4	1351	1.298	4.49
0D28059-CAL4	1	3488	1.253	4.49
0D28059-CAL5	2	6491	1.275	4.48
0D28059-CAL6	5	18330	1.284	4.48
0D28059-CAL7	10	36259	1.300	4.48
0D28059-CAL8	20	80067	1.379	4.48
0D28059-CAL9	50	216769	1.390	4.48
0D28059-CALA	100	433938	1.342	4.48
0D28059-CALB	200	1007829	1.441	4.48

AVE RF **1.360** RF RSD **9.39** AVE RT **4.49**

n-Hexane

Curve Fit: **AVERAGE RF**

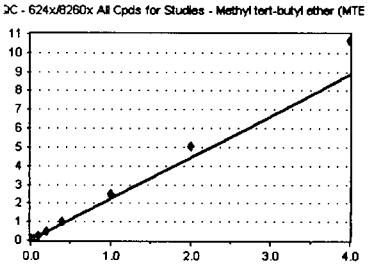


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~27~~	~~5.363~~	~~4.59~~
~~0D28059-CAL3~~	~~0.4~~	~~75~~	~~7.205~~	~~4.58~~
~~0D28059-CAL4~~	~~1~~	~~247~~	~~8.870~~	~~4.58~~
0D28059-CAL5	2	496	9.741	4.59
0D28059-CAL6	5	1711	0.120	4.59
0D28059-CAL7	10	3233	0.116	4.58
0D28059-CAL8	20	7464	0.129	4.58
0D28059-CAL9	50	21842	0.140	4.58
0D28059-CALA	100	43493	0.135	4.58
0D28059-CALB	200	105147	0.150	4.58

AVE RF **0.127** RF RSD **13.76** AVE RT **4.58**

Methyl tert-butyl ether (MTBE)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~537~~	~~2.365~~	~~4.64~~
0D28059-CAL2	0.2	917	1.822	4.64
0D28059-CAL3	0.4	2007	1.928	4.65
0D28059-CAL4	1	5292	1.900	4.64
0D28059-CAL5	2	9858	1.936	4.64
0D28059-CAL6	5	30062	2.105	4.64
0D28059-CAL7	10	62513	2.242	4.64
0D28059-CAL8	20	143781	2.476	4.64
0D28059-CAL9	50	389222	2.496	4.64
0D28059-CALA	100	812679	2.513	4.64
0D28059-CALB	200	1858846	2.657	4.64

AVE RF **2.208** RF RSD **13.99** AVE RT **4.64**

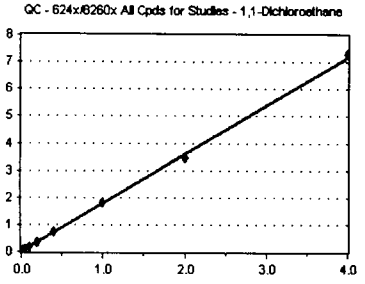
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1-Dichloroethane

Curve Fit: **AVERAGE RF**

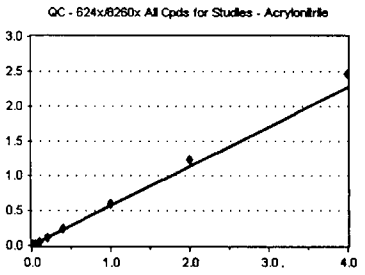


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	440	1.938	5.20
0D28059-CAL2	0.2	879	1.746	5.19
0D28059-CAL3	0.4	1856	1.783	5.19
0D28059-CAL4	1	5006	1.798	5.19
0D28059-CAL5	2	8898	1.748	5.19
0D28059-CAL6	5	24878	1.742	5.19
0D28059-CAL7	10	49091	1.761	5.19
0D28059-CAL8	20	107573	1.853	5.19
0D28059-CAL9	50	283431	1.818	5.19
0D28059-CALA	100	559811	1.731	5.19
0D28059-CALB	200	1278947	1.828	5.19

AVE RF **1.795** RF RSD **3.44** AVE RT **5.19**

Acrylonitrile

Curve Fit: **AVERAGE RF**

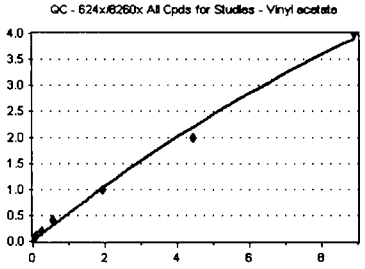


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
0D28059-CAL4	1	1352	0.485	5.28
0D28059-CAL5	2	2442	0.480	5.27
0D28059-CAL6	5	7632	0.534	5.26
0D28059-CAL7	10	16003	0.574	5.26
0D28059-CAL8	20	36134	0.622	5.26
0D28059-CAL9	50	93340	0.599	5.26
0D28059-CALA	100	199568	0.617	5.26
0D28059-CALB	200	430086	0.615	5.26

AVE RF **0.566** RF RSD **10.40** AVE RT **5.26**

Vinyl acetate

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

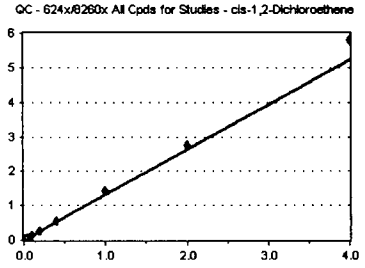


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
0D28059-CAL4	1	2053	0.737	5.52
0D28059-CAL5	2	4151	0.815	5.51
0D28059-CAL6	5	14594	1.022	5.51
0D28059-CAL7	10	33186	1.190	5.51
0D28059-CAL8	20	83858	1.444	5.50
0D28059-CAL9	50	304318	1.951	5.50
0D28059-CALA	100	716527	2.216	5.50
0D28059-CALB	200	1558199	2.228	5.50

AVE RF **1.450** RF RSD **42.06** AVE RT **5.51**

cis-1,2-Dichloroethene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	306	1.348	5.80
0D28059-CAL2	0.2	606	1.204	5.81
0D28059-CAL3	0.4	1211	1.163	5.80
0D28059-CAL4	1	3375	1.212	5.80
0D28059-CAL5	2	6218	1.221	5.80
0D28059-CAL6	5	18232	1.277	5.80
0D28059-CAL7	10	36783	1.319	5.80
0D28059-CAL8	20	81309	1.400	5.80
0D28059-CAL9	50	221030	1.417	5.79
0D28059-CALA	100	444480	1.375	5.80
0D28059-CALB	200	1012684	1.448	5.79

AVE RF **1.308** RF RSD **7.48** AVE RT **5.80**

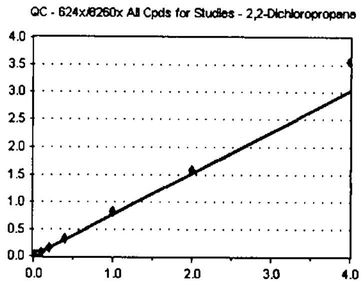
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

2,2-Dichloropropane

Curve Fit: **AVERAGE RF**

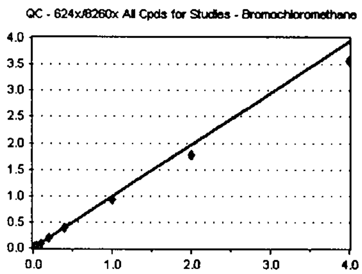


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	151	0.665	5.92
0D28059-CAL2	0.2	410	0.814	5.91
0D28059-CAL3	0.4	753	0.723	5.90
0D28059-CAL4	1	1967	0.706	5.90
0D28059-CAL5	2	3460	0.680	5.91
0D28059-CAL6	5	10290	0.721	5.90
0D28059-CAL7	10	19999	0.717	5.91
0D28059-CAL8	20	46097	0.794	5.90
0D28059-CAL9	50	127143	0.815	5.91
0D28059-CALA	100	256825	0.794	5.90
0D28059-CALB	200	622935	0.891	5.90

AVE RF **0.756** RF RSD **9.19** AVE RT **5.91**

Bromochloromethane

Curve Fit: **AVERAGE RF**

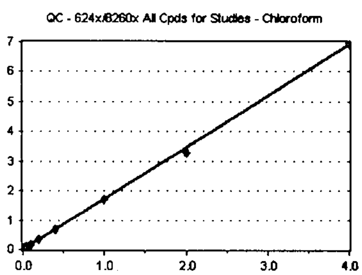


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	271	1.194	6.02
0D28059-CAL2	0.2	526	1.045	6.01
0D28059-CAL3	0.4	1078	1.036	6.01
0D28059-CAL4	1	2726	0.979	6.01
0D28059-CAL5	2	4897	0.962	6.01
0D28059-CAL6	5	13719	0.961	6.01
0D28059-CAL7	10	26657	0.956	6.01
0D28059-CAL8	20	56728	0.977	6.01
0D28059-CAL9	50	145300	0.932	6.01
0D28059-CALA	100	287820	0.890	6.01
0D28059-CALB	200	622772	0.890	6.01

AVE RF **0.984** RF RSD **8.65** AVE RT **6.01**

Chloroform

Curve Fit: **AVERAGE RF**

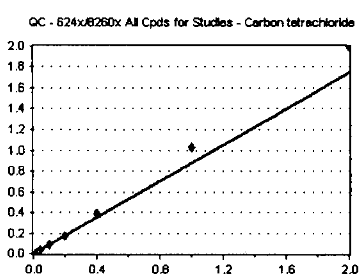


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	470	2.070	6.11
0D28059-CAL2	0.2	849	1.686	6.11
0D28059-CAL3	0.4	1724	1.656	6.11
0D28059-CAL4	1	4654	1.671	6.11
0D28059-CAL5	2	8523	1.674	6.11
0D28059-CAL6	5	24289	1.701	6.11
0D28059-CAL7	10	47467	1.702	6.11
0D28059-CAL8	20	101369	1.746	6.11
0D28059-CAL9	50	267420	1.715	6.11
0D28059-CALA	100	532744	1.648	6.11
0D28059-CALB	200	1216725	1.739	6.11

AVE RF **1.728** RF RSD **6.81** AVE RT **6.11**

Carbon tetrachloride

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~41~~	~~0.181~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~279~~	~~0.554~~	~~6.23~~
~~0D28059-CAL3~~	~~0.4~~	~~619~~	~~0.595~~	~~6.24~~
0D28059-CAL4	1	1929	0.693	6.23
0D28059-CAL5	2	3781	0.743	6.23
0D28059-CAL6	5	11732	0.821	6.23
0D28059-CAL7	10	24278	0.871	6.23
0D28059-CAL8	20	56466	0.972	6.23
0D28059-CAL9	50	159439	1.022	6.23
0D28059-CALA	100	323005	0.999	6.23
~~0D28059-CALB~~	~~200~~	~~809357~~	~~1.157~~	~~6.23~~

AVE RF **0.874** RF RSD **14.78** AVE RT **6.23**

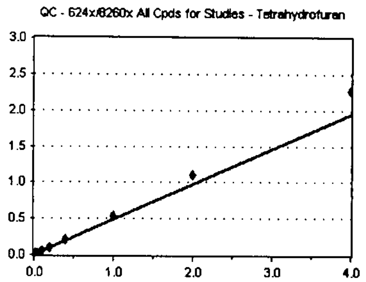
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Tetrahydrofuran

Curve Fit: **AVERAGE RF**

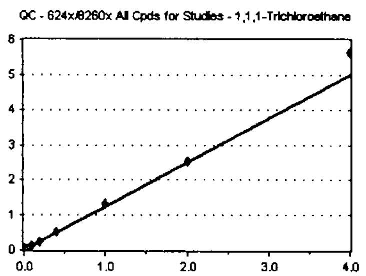


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~176~~	~~0.350~~	~~6.30~~
~~0D28059-CAL3~~	~~0.4~~	~~390~~	~~0.375~~	~~6.30~~
0D28059-CAL4	1	1160	0.417	6.29
0D28059-CAL5	2	2041	0.401	6.29
0D28059-CAL6	5	6128	0.429	6.28
0D28059-CAL7	10	13399	0.481	6.28
0D28059-CAL8	20	29915	0.515	6.28
0D28059-CAL9	50	82643	0.530	6.28
0D28059-CALA	100	179471	0.555	6.28
0D28059-CALB	200	398049	0.569	6.28

AVE RF **0.487** RF RSD **13.39** AVE RT **6.28**

1,1,1-Trichloroethane

Curve Fit: **AVERAGE RF**

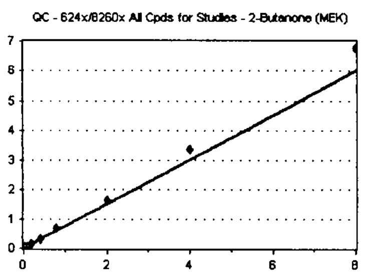


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	352	1.550	6.32
0D28059-CAL2	0.2	542	1.077	6.31
0D28059-CAL3	0.4	1239	1.190	6.31
0D28059-CAL4	1	3173	1.139	6.31
0D28059-CAL5	2	5630	1.106	6.31
0D28059-CAL6	5	17241	1.207	6.31
0D28059-CAL7	10	33372	1.197	6.31
0D28059-CAL8	20	75474	1.300	6.31
0D28059-CAL9	50	205435	1.317	6.31
0D28059-CALA	100	407916	1.262	6.31
0D28059-CALB	200	987730	1.412	6.31

AVE RF **1.251** RF RSD **11.16** AVE RT **6.31**

2-Butanone (MEK)

Curve Fit: **AVERAGE RF**

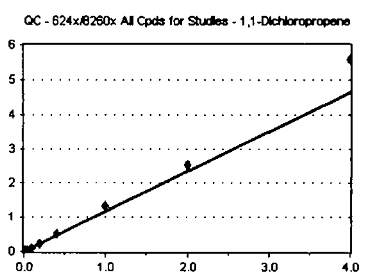


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.8~~	~~1046~~	~~0.502~~	~~6.49~~
0D28059-CAL4	2	3339	0.600	6.47
0D28059-CAL5	4	6424	0.631	6.46
0D28059-CAL6	10	19945	0.698	6.45
0D28059-CAL7	20	41809	0.750	6.45
0D28059-CAL8	40	96125	0.828	6.45
0D28059-CAL9	100	254544	0.816	6.45
0D28059-CALA	200	545218	0.843	6.45
0D28059-CALB	400	1181311	0.844	6.45

AVE RF **0.751** RF RSD **13.07** AVE RT **6.45**

1,1-Dichloropropene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	257	1.132	6.47
0D28059-CAL2	0.2	553	1.098	6.45
0D28059-CAL3	0.4	1041	1.000	6.46
0D28059-CAL4	1	2829	1.016	6.45
0D28059-CAL5	2	4996	0.981	6.46
0D28059-CAL6	5	16001	1.120	6.45
0D28059-CAL7	10	32463	1.164	6.45
0D28059-CAL8	20	75641	1.303	6.45
0D28059-CAL9	50	206166	1.322	6.45
0D28059-CALA	100	407326	1.260	6.45
0D28059-CALB	200	975429	1.394	6.45

AVE RF [illegible] RF RSD [illegible] AVE RT **6.46**

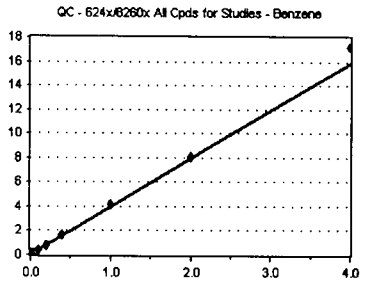
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Benzene

Curve Fit: **AVERAGE RF**

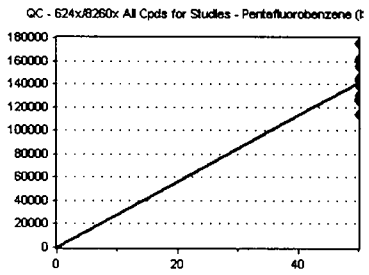


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	1003	4.417	6.73
0D28059-CAL2	0.2	1916	3.806	6.73
0D28059-CAL3	0.4	3614	3.472	6.73
0D28059-CAL4	1	10086	3.622	6.73
0D28059-CAL5	2	18474	3.628	6.73
0D28059-CAL6	5	55897	3.914	6.73
0D28059-CAL7	10	111329	3.992	6.73
0D28059-CAL8	20	246984	4.253	6.73
0D28059-CAL9	50	657475	4.216	6.73
0D28059-CALA	100	1302053	4.027	6.72
0D28059-CALB	200	3008884	4.301	6.72

AVE RF **3.968** RF RSD **7.85** AVE RT **6.73**

Pentafluorobenzene (ISTD)

Curve Fit: **AVERAGE RF**

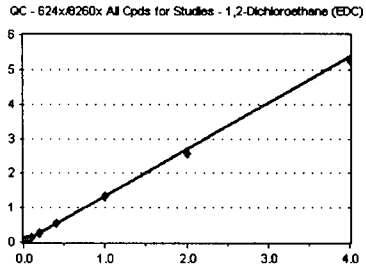


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	113531	2270.620	6.84
0D28059-CAL2	50	125854	2517.080	6.84
0D28059-CAL3	50	130111	2602.220	6.84
0D28059-CAL4	50	139239	2784.780	6.84
0D28059-CAL5	50	127296	2545.920	6.84
0D28059-CAL6	50	142812	2856.240	6.84
0D28059-CAL7	50	139423	2788.460	6.84
0D28059-CAL8	50	145168	2903.360	6.84
0D28059-CAL9	50	155943	3118.860	6.84
0D28059-CALA	50	161668	3233.360	6.83
0D28059-CALB	50	174876	3497.520	6.84

AVE RF **2828.947** RF RSD **12.47** AVE RT **6.84**

1,2-Dichloroethane (EDC)

Curve Fit: **AVERAGE RF**

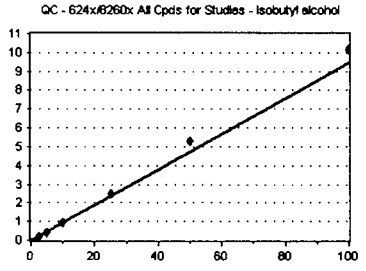


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	343	1.511	6.96
0D28059-CAL2	0.2	715	1.420	6.97
0D28059-CAL3	0.4	1349	1.296	6.96
0D28059-CAL4	1	3642	1.308	6.96
0D28059-CAL5	2	6699	1.316	6.96
0D28059-CAL6	5	19078	1.336	6.96
0D28059-CAL7	10	37364	1.340	6.96
0D28059-CAL8	20	80002	1.378	6.96
0D28059-CAL9	50	207503	1.331	6.95
0D28059-CALA	100	415815	1.286	6.95
0D28059-CALB	200	923686	1.320	6.95

AVE RF **1.349** RF RSD **4.86** AVE RT **6.96**

Isobutyl alcohol

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~2.5~~	~~384~~	~~6.765~~	~~7.03~~
~~0D28059-CAL2~~	~~5~~	~~824~~	~~6.547~~	~~7.04~~
~~0D28059-CAL3~~	~~10~~	~~1632~~	~~6.272~~	~~7.03~~
~~0D28059-CAL4~~	~~25~~	~~4875~~	~~7.002~~	~~7.02~~
~~0D28059-CAL5~~	~~50~~	~~9183~~	~~7.214~~	~~7.02~~
0D28059-CAL6	125	27429	7.683	7.01
0D28059-CAL7	250	59903	8.593	7.02
0D28059-CAL8	500	141129	9.722	7.01
0D28059-CAL9	1250	390505	0.100	7.01
0D28059-CALA	2500	851953	0.105	7.01
0D28059-CALB	5000	1783101	0.102	7.02

AVE RF **9.458** RF RSD **11.58** AVE RT **7.02**

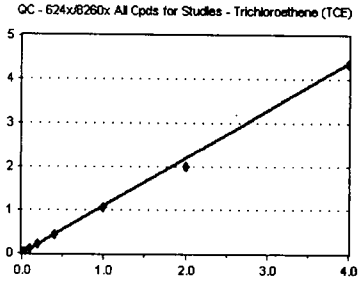
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Trichloroethene (TCE)

Curve Fit: **AVERAGE RF**

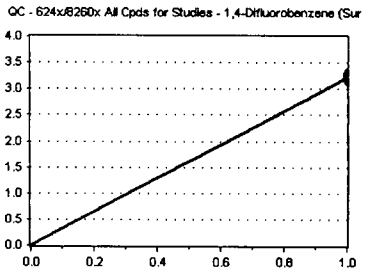


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	318	1.400	7.39
0D28059-CAL2	0.2	572	1.136	7.39
0D28059-CAL3	0.4	1209	1.162	7.39
0D28059-CAL4	1	2892	1.039	7.38
0D28059-CAL5	2	5135	1.008	7.38
0D28059-CAL6	5	15099	1.057	7.38
0D28059-CAL7	10	28530	1.023	7.38
0D28059-CAL8	20	63379	1.091	7.38
0D28059-CAL9	50	165009	1.058	7.38
0D28059-CALA	100	321823	0.995	7.38
0D28059-CALB	200	762043	1.089	7.38

AVE RF **1.096** RF RSD **10.32** AVE RT **7.38**

1,4-Difluorobenzene (Surr)

Curve Fit: **AVERAGE RF**

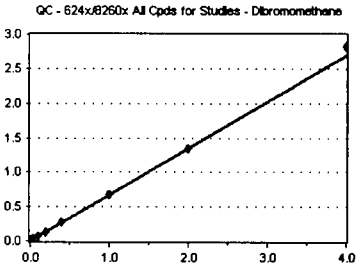


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	368655	3.247	7.42
0D28059-CAL2	50	415901	3.305	7.42
0D28059-CAL3	50	427126	3.283	7.42
0D28059-CAL4	50	455553	3.272	7.42
0D28059-CAL5	50	410702	3.226	7.42
0D28059-CAL6	50	454891	3.185	7.42
0D28059-CAL7	50	439924	3.155	7.42
0D28059-CAL8	50	457229	3.150	7.42
0D28059-CAL9	50	494278	3.170	7.42
0D28059-CALA	50	510262	3.156	7.42
0D28059-CALB	50	566135	3.237	7.42

AVE RF **3.217** RF RSD **1.75** AVE RT **7.42**

Dibromomethane

Curve Fit: **AVERAGE RF**

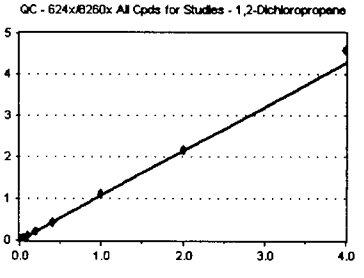


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	185	0.815	7.84
0D28059-CAL2	0.2	297	0.590	7.86
0D28059-CAL3	0.4	686	0.659	7.86
0D28059-CAL4	1	1817	0.652	7.86
0D28059-CAL5	2	3205	0.629	7.86
0D28059-CAL6	5	9153	0.641	7.86
0D28059-CAL7	10	18454	0.662	7.86
0D28059-CAL8	20	39871	0.687	7.86
0D28059-CAL9	50	106537	0.683	7.86
0D28059-CALA	100	217366	0.672	7.85
0D28059-CALB	200	492139	0.704	7.85

AVE RF **0.672** RF RSD **8.40** AVE RT **7.85**

1,2-Dichloropropane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	244	1.075	7.98
0D28059-CAL2	0.2	510	1.013	7.97
0D28059-CAL3	0.4	1082	1.039	7.97
0D28059-CAL4	1	2853	1.024	7.97
0D28059-CAL5	2	5295	1.040	7.97
0D28059-CAL6	5	14723	1.031	7.97
0D28059-CAL7	10	29839	1.070	7.97
0D28059-CAL8	20	64553	1.112	7.97
0D28059-CAL9	50	174417	1.118	7.97
0D28059-CALA	100	350668	1.085	7.97
0D28059-CALB	200	803265	1.148	7.97

AVE RF **1.069** RF RSD **4.09** AVE RT **7.97**

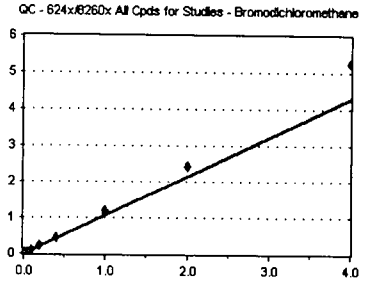
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Bromodichloromethane

Curve Fit: **AVERAGE RF**

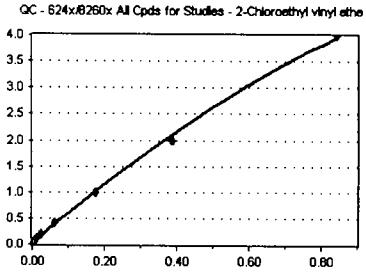


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	206	0.907	8.05
0D28059-CAL2	0.2	496	0.985	8.05
0D28059-CAL3	0.4	1003	0.964	8.05
0D28059-CAL4	1	2789	1.002	8.06
0D28059-CAL5	2	4745	0.932	8.05
0D28059-CAL6	5	14828	1.038	8.05
0D28059-CAL7	10	29724	1.066	8.05
0D28059-CAL8	20	68001	1.171	8.05
0D28059-CAL9	50	188929	1.212	8.05
0D28059-CALA	100	393467	1.217	8.04
0D28059-CALB	200	918596	1.313	8.04

AVE RF **1.073** RF RSD **12.52** AVE RT **8.05**

2-Chloroethyl vinyl ether

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

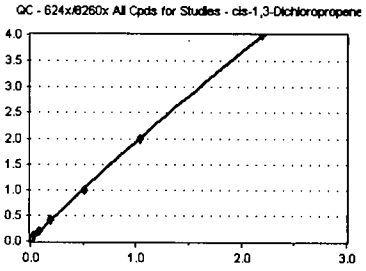


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~119~~	~~4.113~~	~~8.75~~
0D28059-CAL4	1	712	9.250	8.72
0D28059-CAL5	2	1396	9.991	8.72
0D28059-CAL6	5	4421	0.112	8.72
0D28059-CAL7	10	9597	0.125	8.72
0D28059-CAL8	20	25300	0.157	8.72
0D28059-CAL9	50	75399	0.174	8.71
0D28059-CALA	100	176791	0.193	8.71
0D28059-CALB	200	431655	0.211	8.71

AVE RF **0.146** RF RSD **30.64** AVE RT **8.71**

cis-1,3-Dichloropropene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

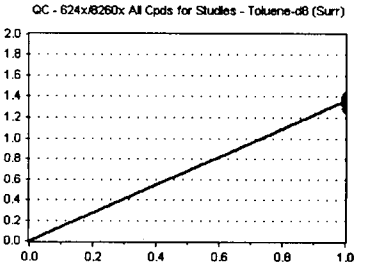


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~199~~	~~0.321~~	~~8.78~~
~~0D28059-CAL2~~	~~0.2~~	~~476~~	~~0.338~~	~~8.78~~
~~0D28059-CAL3~~	~~0.4~~	~~977~~	~~0.338~~	~~8.78~~
0D28059-CAL4	1	2416	0.314	8.78
0D28059-CAL5	2	4719	0.338	8.78
0D28059-CAL6	5	14490	0.366	8.77
0D28059-CAL7	10	31828	0.414	8.77
0D28059-CAL8	20	76593	0.476	8.77
0D28059-CAL9	50	224852	0.518	8.77
0D28059-CALA	100	477036	0.521	8.77
0D28059-CALB	200	1126694	0.550	8.77

AVE RF **0.437** RF RSD **20.91** AVE RT **8.77**

Toluene-d8 (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	437447	1.411	8.97
0D28059-CAL2	50	494085	1.407	8.97
0D28059-CAL3	50	501453	1.386	8.97
0D28059-CAL4	50	534043	1.388	8.97
0D28059-CAL5	50	486856	1.394	8.97
0D28059-CAL6	50	541718	1.370	8.97
0D28059-CAL7	50	522720	1.361	8.97
0D28059-CAL8	50	543124	1.350	8.97
0D28059-CAL9	50	579127	1.335	8.97
0D28059-CALA	50	605813	1.323	8.97
0D28059-CALB	50	661083	1.292	8.97

AVE RF **1.365** RF RSD **2.73** AVE RT **8.97**

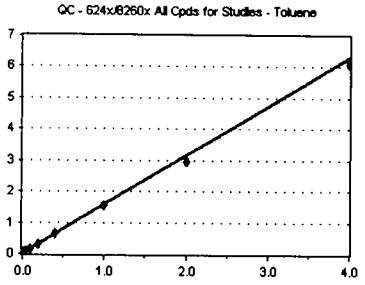
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Toluene

Curve Fit: **AVERAGE RF**

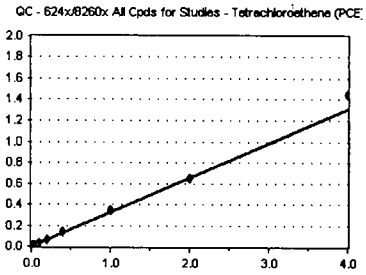


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	1265	2.040	9.03
0D28059-CAL2	0.2	2257	1.607	9.02
0D28059-CAL3	0.4	4633	1.601	9.02
0D28059-CAL4	1	11597	1.507	9.02
0D28059-CAL5	2	20457	1.464	9.02
0D28059-CAL6	5	60036	1.518	9.02
0D28059-CAL7	10	116159	1.513	9.02
0D28059-CAL8	20	254746	1.583	9.02
0D28059-CAL9	50	677362	1.561	9.02
0D28059-CALA	100	1349153	1.473	9.02
0D28059-CALB	200	3114208	1.521	9.02

AVE RF **1.581** RF RSD **10.10** AVE RT **9.02**

Tetrachloroethene (PCE)

Curve Fit: **AVERAGE RF**

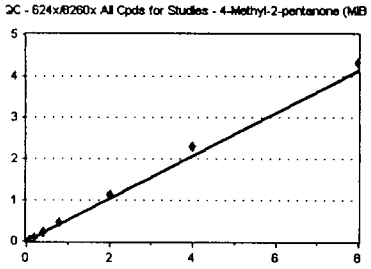


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	188	0.303	9.42
0D28059-CAL2	0.2	432	0.308	9.41
0D28059-CAL3	0.4	1014	0.350	9.42
0D28059-CAL4	1	2420	0.314	9.41
0D28059-CAL5	2	4099	0.293	9.41
0D28059-CAL6	5	13173	0.333	9.41
0D28059-CAL7	10	24546	0.320	9.41
0D28059-CAL8	20	55366	0.344	9.41
0D28059-CAL9	50	148064	0.341	9.41
0D28059-CALA	100	298184	0.326	9.41
0D28059-CALB	200	743359	0.363	9.41

AVE RF **0.327** RF RSD **6.62** AVE RT **9.41**

4-Methyl-2-pentanone (MiBK)

Curve Fit: **AVERAGE RF**

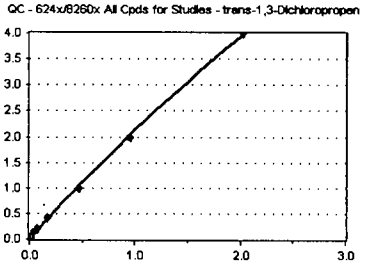


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~425~~	~~0.343~~	~~9.44~~
~~0D28059-CAL2~~	~~0.4~~	~~1009~~	~~0.359~~	~~9.43~~
~~0D28059-CAL3~~	~~0.8~~	~~2070~~	~~0.358~~	~~9.43~~
~~0D28059-CAL4~~	~~2~~	~~5821~~	~~0.378~~	~~9.42~~
0D28059-CAL5	4	11635	0.416	9.42
0D28059-CAL6	10	35418	0.448	9.42
0D28059-CAL7	20	78447	0.511	9.42
0D28059-CAL8	40	181192	0.563	9.41
0D28059-CAL9	100	494983	0.571	9.41
0D28059-CALA	200	1051104	0.574	9.41
0D28059-CALB	400	2206651	0.539	9.41

AVE RF **0.517** RF RSD **12.14** AVE RT **9.41**

trans-1,3-Dichloropropene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~132~~	~~0.213~~	~~9.47~~
~~0D28059-CAL2~~	~~0.2~~	~~262~~	~~0.187~~	~~9.46~~
0D28059-CAL3	0.4	712	0.246	9.46
0D28059-CAL4	1	2195	0.285	9.45
0D28059-CAL5	2	3895	0.279	9.45
0D28059-CAL6	5	13049	0.330	9.45
0D28059-CAL7	10	28464	0.371	9.45
0D28059-CAL8	20	69258	0.430	9.45
0D28059-CAL9	50	202313	0.466	9.45
0D28059-CALA	100	438237	0.478	9.45
0D28059-CALB	200	1034541	0.505	9.45

AVE RF **0.377** RF RSD **25.71** AVE RT **9.45**

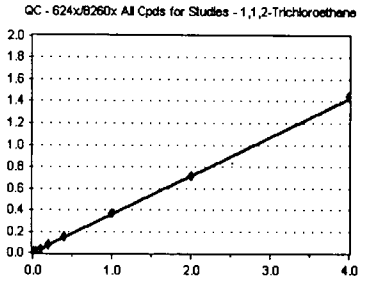
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1,2-Trichloroethane

Curve Fit: **AVERAGE RF**

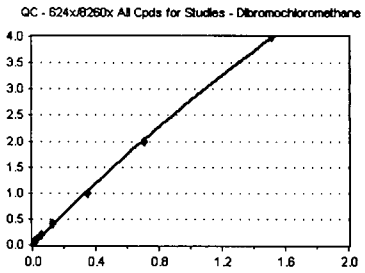


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	221	0.356	9.62
0D28059-CAL2	0.2	483	0.344	9.61
0D28059-CAL3	0.4	1003	0.347	9.61
0D28059-CAL4	1	2686	0.349	9.61
0D28059-CAL5	2	4815	0.345	9.61
0D28059-CAL6	5	14251	0.360	9.60
0D28059-CAL7	10	27495	0.358	9.60
0D28059-CAL8	20	59774	0.372	9.60
0D28059-CAL9	50	160242	0.369	9.60
0D28059-CALA	100	325366	0.355	9.60
0D28059-CALB	200	743055	0.363	9.60

AVE RF **0.356** RF RSD **2.67** AVE RT **9.60**

Dibromochloromethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

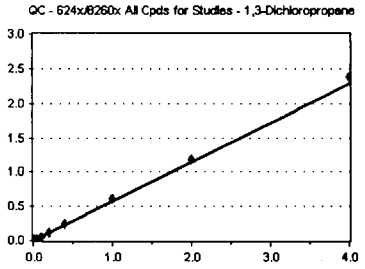


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~141~~	~~0.227~~	~~9.77~~
0D28059-CAL2	0.2	285	0.203	9.78
0D28059-CAL3	0.4	627	0.217	9.77
0D28059-CAL4	1	1804	0.234	9.77
0D28059-CAL5	2	3292	0.236	9.77
0D28059-CAL6	5	10229	0.259	9.76
0D28059-CAL7	10	21974	0.286	9.77
0D28059-CAL8	20	51693	0.321	9.77
0D28059-CAL9	50	151282	0.349	9.77
0D28059-CALA	100	324009	0.354	9.76
0D28059-CALB	200	775840	0.379	9.76

AVE RF **0.284** RF RSD **22.30** AVE RT **9.77**

1,3-Dichloropropane

Curve Fit: **AVERAGE RF**

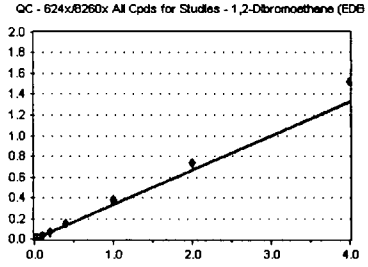


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	384	0.619	9.86
0D28059-CAL2	0.2	668	0.476	9.86
0D28059-CAL3	0.4	1557	0.538	9.86
0D28059-CAL4	1	4282	0.556	9.86
0D28059-CAL5	2	7446	0.533	9.86
0D28059-CAL6	5	22206	0.561	9.86
0D28059-CAL7	10	44749	0.583	9.86
0D28059-CAL8	20	97867	0.608	9.86
0D28059-CAL9	50	264551	0.610	9.86
0D28059-CALA	100	543367	0.593	9.86
0D28059-CALB	200	1220547	0.596	9.86

AVE RF **0.570** RF RSD **7.53** AVE RT **9.86**

1,2-Dibromoethane (EDB)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~135~~	~~0.218~~	~~0.00~~
0D28059-CAL2	0.2	377	0.268	9.98
0D28059-CAL3	0.4	856	0.296	9.99
0D28059-CAL4	1	2229	0.290	9.99
0D28059-CAL5	2	4307	0.308	9.98
0D28059-CAL6	5	12948	0.327	9.98
0D28059-CAL7	10	25910	0.337	9.98
0D28059-CAL8	20	59469	0.370	9.98
0D28059-CAL9	50	162144	0.374	9.98
0D28059-CALA	100	338306	0.369	9.98
0D28059-CALB	200	782130	0.382	9.98

AVE RF **0.333** RF RSD **12.22** AVE RT **9.98**

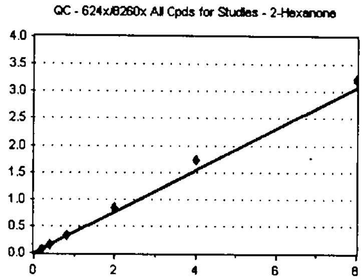
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

2-Hexanone

Curve Fit: **AVERAGE RF**

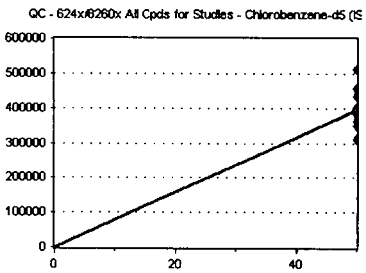


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.2~~	~~181~~	~~0.146~~	~~0.00~~
~~0D28059-CAL2~~	~~0.4~~	~~490~~	~~0.174~~	~~10.20~~
~~0D28059-CAL3~~	~~0.8~~	~~1203~~	~~0.208~~	~~10.20~~
~~0D28059-CAL4~~	~~2~~	~~3387~~	~~0.220~~	~~10.20~~
~~0D28059-CAL5~~	~~4~~	~~7344~~	~~0.263~~	~~10.19~~
0D28059-CAL6	10	22555	0.285	10.19
0D28059-CAL7	20	54460	0.355	10.19
0D28059-CAL8	40	131124	0.407	10.19
0D28059-CAL9	100	365112	0.421	10.18
0D28059-CALA	200	791292	0.432	10.18
0D28059-CALB	400	1645799	0.402	10.18

AVE RF **0.384** RF RSD **14.36** AVE RT **10.19**

Chlorobenzene-d5 (ISTD)

Curve Fit: **AVERAGE RF**

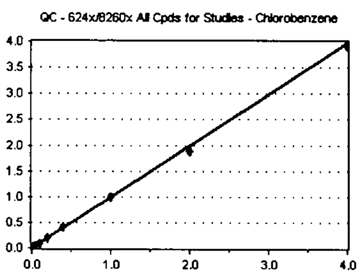


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	310108	6202.160	10.43
0D28059-CAL2	50	351200	7024.000	10.43
0D28059-CAL3	50	361683	7233.660	10.43
0D28059-CAL4	50	384850	7697.000	10.43
0D28059-CAL5	50	349304	6986.080	10.43
0D28059-CAL6	50	395555	7911.100	10.43
0D28059-CAL7	50	383963	7679.260	10.43
0D28059-CAL8	50	402229	8044.580	10.43
0D28059-CAL9	50	433790	8675.800	10.43
0D28059-CALA	50	457980	9159.600	10.43
0D28059-CALB	50	511754	10235.080	10.43

AVE RF **7895.302** RF RSD **14.26** AVE RT **10.43**

Chlorobenzene

Curve Fit: **AVERAGE RF**

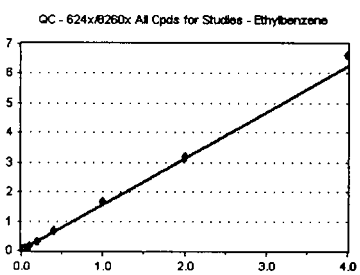


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	784	1.264	10.45
0D28059-CAL2	0.2	1372	0.977	10.44
0D28059-CAL3	0.4	2815	0.973	10.45
0D28059-CAL4	1	7377	0.958	10.45
0D28059-CAL5	2	13084	0.936	10.45
0D28059-CAL6	5	38442	0.972	10.45
0D28059-CAL7	10	73524	0.957	10.45
0D28059-CAL8	20	161648	1.005	10.45
0D28059-CAL9	50	430146	0.992	10.45
0D28059-CALA	100	866291	0.946	10.45
0D28059-CALB	200	2006540	0.980	10.45

AVE RF **0.996** RF RSD **9.13** AVE RT **10.45**

Ethylbenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	1080	1.741	10.48
0D28059-CAL2	0.2	1953	1.390	10.47
0D28059-CAL3	0.4	4039	1.396	10.47
0D28059-CAL4	1	11594	1.506	10.47
0D28059-CAL5	2	20551	1.471	10.47
0D28059-CAL6	5	60457	1.528	10.47
0D28059-CAL7	10	120072	1.564	10.47
0D28059-CAL8	20	267924	1.665	10.46
0D28059-CAL9	50	723698	1.668	10.46
0D28059-CALA	100	1452579	1.586	10.46
0D28059-CALB	200	3390116	1.656	10.46

AVE RF **1.561** RF RSD **7.39** AVE RT **10.47**

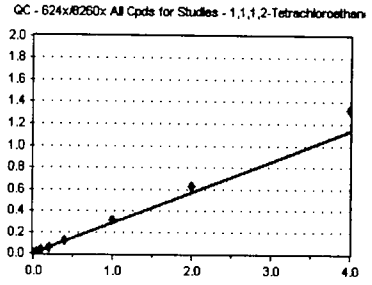
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,1,1,2-Tetrachloroethane

Curve Fit: **AVERAGE RF**

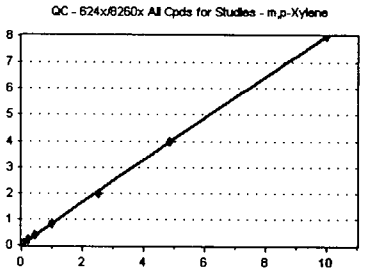


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~140~~	~~0.226~~	~~0.00~~
0D28059-CAL2	0.2	402	0.286	10.50
0D28059-CAL3	0.4	700	0.242	10.50
0D28059-CAL4	1	1901	0.247	10.50
0D28059-CAL5	2	3453	0.247	10.50
0D28059-CAL6	5	10701	0.271	10.50
0D28059-CAL7	10	21231	0.276	10.50
0D28059-CAL8	20	48948	0.304	10.50
0D28059-CAL9	50	135859	0.313	10.50
0D28059-CALA	100	285345	0.312	10.50
0D28059-CALB	200	678121	0.331	10.50

AVE RF **0.283** RF RSD **11.17** AVE RT **10.50**

m,p-Xylene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

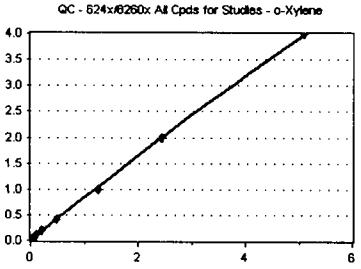


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.2	1169	0.942	10.60
0D28059-CAL2	0.4	2530	0.900	10.59
0D28059-CAL3	0.8	4861	0.840	10.60
0D28059-CAL4	2	14033	0.912	10.59
0D28059-CAL5	4	25600	0.916	10.59
0D28059-CAL6	10	82936	1.048	10.59
0D28059-CAL7	20	172596	1.124	10.59
0D28059-CAL8	40	395642	1.230	10.59
0D28059-CAL9	100	1089425	1.256	10.59
0D28059-CALA	200	2216310	1.210	10.59
0D28059-CALB	400	5118451	1.250	10.59

AVE RF **1.057** RF RSD **15.26** AVE RT **10.59**

o-Xylene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

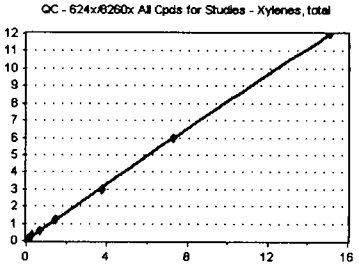


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	660	1.064	10.95
0D28059-CAL2	0.2	1046	0.745	10.95
0D28059-CAL3	0.4	2184	0.755	10.95
0D28059-CAL4	1	6116	0.795	10.95
0D28059-CAL5	2	11482	0.822	10.95
0D28059-CAL6	5	37475	0.947	10.95
0D28059-CAL7	10	80619	1.050	10.95
0D28059-CAL8	20	192167	1.194	10.95
0D28059-CAL9	50	545910	1.258	10.95
0D28059-CALA	100	1120662	1.223	10.95
0D28059-CALB	200	2610008	1.275	10.95

AVE RF **1.012** RF RSD **20.67** AVE RT **10.95**

Xylenes, total

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.3	1829	0.983	10.95
0D28059-CAL2	0.6	3576	0.849	10.95
0D28059-CAL3	1.2	7045	0.812	10.95
0D28059-CAL4	3	20149	0.873	10.95
0D28059-CAL5	6	37082	0.885	10.95
0D28059-CAL6	15	120411	1.015	10.95
0D28059-CAL7	30	253215	1.099	10.95
0D28059-CAL8	60	587809	1.218	10.95
0D28059-CAL9	150	1635335	1.257	10.95
0D28059-CALA	300	3336972	1.214	10.95
0D28059-CALB	600	7728459	1.258	10.95

AVE RF **1.042** RF RSD **16.76** AVE RT **10.95**

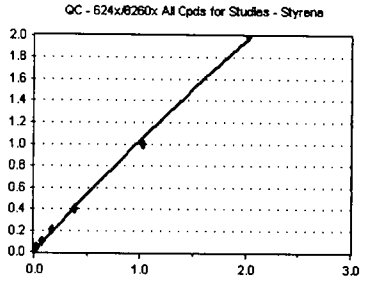
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Styrene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

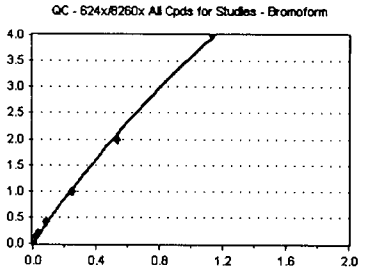


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~277~~	~~0.447~~	~~11.01~~
0D28059-CAL2	0.2	645	0.459	11.01
0D28059-CAL3	0.4	1543	0.533	11.00
0D28059-CAL4	1	4390	0.570	11.00
0D28059-CAL5	2	8265	0.592	11.00
0D28059-CAL6	5	29377	0.743	11.00
0D28059-CAL7	10	65789	0.857	11.00
0D28059-CAL8	20	155824	0.969	10.99
0D28059-CAL9	50	443946	1.023	10.99
0D28059-CALA	100	925198	1.010	10.99
~~0D28059-CALB~~	~~200~~	~~2122456~~	~~1.037~~	~~10.99~~

AVE RF **0.751** RF RSD **29.43** AVE RT **11.00**

Bromoform

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

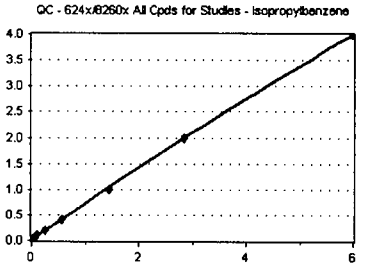


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~71~~	~~0.114~~	~~11.02~~
0D28059-CAL2	0.2	181	0.129	11.03
0D28059-CAL3	0.4	411	0.142	11.02
0D28059-CAL4	1	1185	0.154	11.02
0D28059-CAL5	2	2032	0.145	11.02
0D28059-CAL6	5	6855	0.173	11.02
0D28059-CAL7	10	14508	0.189	11.02
0D28059-CAL8	20	35427	0.220	11.02
0D28059-CAL9	50	109913	0.253	11.02
0D28059-CALA	100	245900	0.268	11.02
0D28059-CALB	200	580388	0.284	11.02

AVE RF **0.196** RF RSD **29.04** AVE RT **11.02**

Isopropylbenzene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

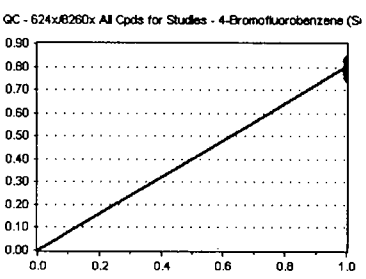


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~595~~	~~0.959~~	~~11.20~~
0D28059-CAL2	0.2	1157	0.824	11.21
0D28059-CAL3	0.4	2263	0.782	11.20
0D28059-CAL4	1	7045	0.915	11.20
0D28059-CAL5	2	12996	0.930	11.20
0D28059-CAL6	5	43279	1.094	11.20
0D28059-CAL7	10	93386	1.216	11.20
0D28059-CAL8	20	224839	1.397	11.20
0D28059-CAL9	50	634097	1.462	11.20
0D28059-CALA	100	1303456	1.423	11.20
0D28059-CALB	200	3059960	1.495	11.20

AVE RF **1.154** RF RSD **24.25** AVE RT **11.20**

4-Bromofluorobenzene (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	107903	0.833	11.43
0D28059-CAL2	50	122178	0.826	11.43
0D28059-CAL3	50	126405	0.830	11.43
0D28059-CAL4	50	138403	0.824	11.43
0D28059-CAL5	50	124756	0.823	11.43
0D28059-CAL6	50	144745	0.804	11.43
0D28059-CAL7	50	142580	0.799	11.43
0D28059-CAL8	50	151710	0.781	11.43
0D28059-CAL9	50	167491	0.768	11.43
0D28059-CALA	50	176212	0.755	11.43
0D28059-CALB	50	191987	0.780	11.43

AVE RF **0.802** RF RSD **3.41** AVE RT **11.43**

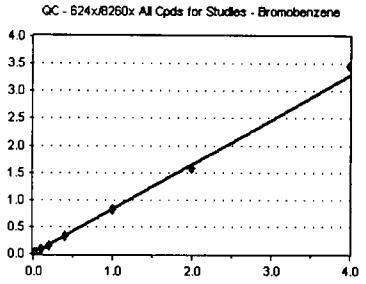
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Bromobenzene

Curve Fit: **AVERAGE RF**

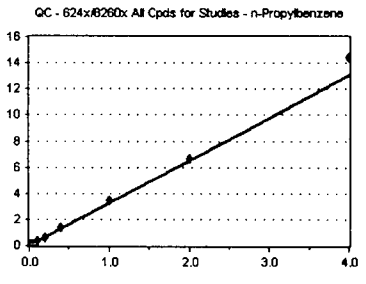


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	220	0.849	11.51
0D28059-CAL2	0.2	477	0.807	11.51
0D28059-CAL3	0.4	1011	0.830	11.51
0D28059-CAL4	1	2856	0.850	11.51
0D28059-CAL5	2	4698	0.775	11.51
0D28059-CAL6	5	14510	0.806	11.51
0D28059-CAL7	10	28215	0.790	11.51
0D28059-CAL8	20	64696	0.833	11.51
0D28059-CAL9	50	178576	0.819	11.51
0D28059-CALA	100	369547	0.792	11.51
0D28059-CALB	200	850318	0.864	11.51

AVE RF **0.819** RF RSD **3.46** AVE RT **11.51**

n-Propylbenzene

Curve Fit: **AVERAGE RF**

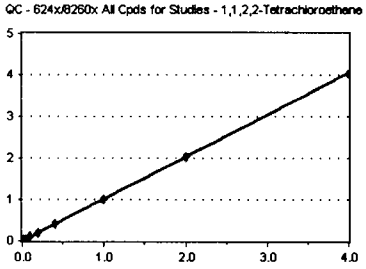


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	972	3.750	11.53
0D28059-CAL2	0.2	1758	2.973	11.53
0D28059-CAL3	0.4	3735	3.065	11.53
0D28059-CAL4	1	9809	2.921	11.53
0D28059-CAL5	2	17637	2.908	11.53
0D28059-CAL6	5	55551	3.087	11.53
0D28059-CAL7	10	115790	3.242	11.53
0D28059-CAL8	20	270477	3.483	11.52
0D28059-CAL9	50	753971	3.458	11.52
0D28059-CALA	100	1547444	3.317	11.52
0D28059-CALB	200	3545698	3.601	11.52

AVE RF **3.255** RF RSD **8.90** AVE RT **11.52**

1,1,2,2-Tetrachloroethane

Curve Fit: **AVERAGE RF**

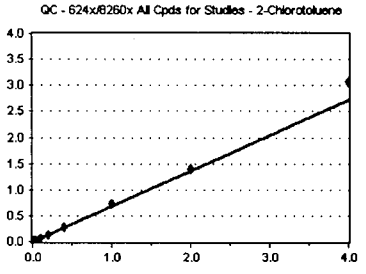


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	312	1.204	11.60
0D28059-CAL2	0.2	560	0.947	11.59
0D28059-CAL3	0.4	1213	0.995	11.59
0D28059-CAL4	1	3424	1.019	11.59
0D28059-CAL5	2	5938	0.979	11.58
0D28059-CAL6	5	17506	0.973	11.59
0D28059-CAL7	10	35152	0.984	11.59
0D28059-CAL8	20	78508	1.011	11.59
0D28059-CAL9	50	218708	1.003	11.58
0D28059-CALA	100	473849	1.016	11.58
0D28059-CALB	200	994174	1.010	11.58

AVE RF **1.013** RF RSD **6.61** AVE RT **11.58**

2-Chlorotoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	191	0.737	11.66
0D28059-CAL2	0.2	365	0.617	11.65
0D28059-CAL3	0.4	753	0.618	11.65
0D28059-CAL4	1	2065	0.615	11.65
0D28059-CAL5	2	3818	0.629	11.65
0D28059-CAL6	5	11788	0.655	11.65
0D28059-CAL7	10	24180	0.677	11.65
0D28059-CAL8	20	56094	0.722	11.65
0D28059-CAL9	50	158246	0.726	11.65
0D28059-CALA	100	327467	0.702	11.65
0D28059-CALB	200	757592	0.769	11.65

AVE RF **0.679** RF RSD **8.18** AVE RT **11.65**

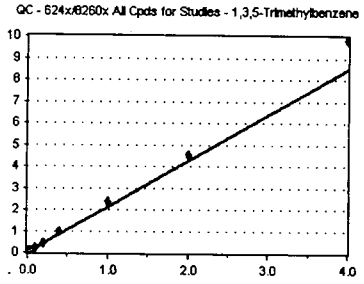
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,3,5-Trimethylbenzene

Curve Fit: **AVERAGE RF**

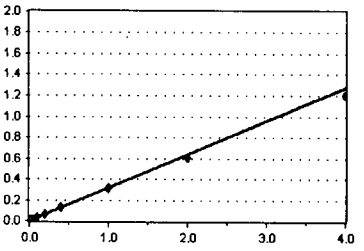


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~506~~	~~1.952~~	~~11.68~~
~~0D28059-CAL2~~	~~0.2~~	~~901~~	~~1.524~~	~~11.67~~
~~0D28059-CAL3~~	~~0.4~~	~~2046~~	~~1.679~~	~~11.67~~
0D28059-CAL4	1	5426	1.616	11.67
0D28059-CAL5	2	10389	1.713	11.67
0D28059-CAL6	5	35877	1.994	11.67
0D28059-CAL7	10	77814	2.179	11.67
0D28059-CAL8	20	183706	2.366	11.67
0D28059-CAL9	50	514083	2.358	11.67
0D28059-CALA	100	1065161	2.283	11.67
0D28059-CALB	200	2427844	2.466	11.67

AVE RF **2.122** RF RSD **14.93** AVE RT **11.67**

1,2,3-Trichloropropane

Curve Fit: **AVERAGE RF**

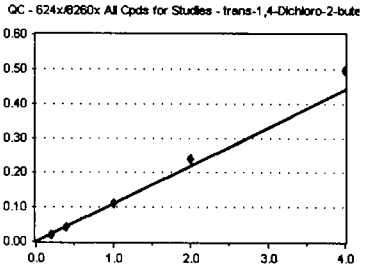


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~68~~	~~0.262~~	~~11.70~~
0D28059-CAL2	0.2	184	0.311	11.70
0D28059-CAL3	0.4	379	0.311	11.69
0D28059-CAL4	1	1181	0.352	11.69
0D28059-CAL5	2	1959	0.323	11.69
0D28059-CAL6	5	5738	0.319	11.69
0D28059-CAL7	10	11646	0.326	11.69
0D28059-CAL8	20	25712	0.331	11.69
0D28059-CAL9	50	67976	0.312	11.69
0D28059-CALA	100	141478	0.303	11.69
0D28059-CALB	200	296100	0.301	11.69

AVE RF **0.319** RF RSD **4.72** AVE RT **11.69**

trans-1,4-Dichloro-2-butene

Curve Fit: **AVERAGE RF**

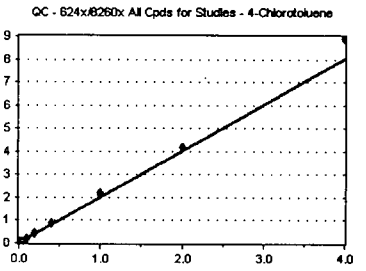


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL4~~	~~1~~	~~228~~	~~6.789~~	~~11.72~~
~~0D28059-CAL5~~	~~2~~	~~427~~	~~7.040~~	~~11.72~~
~~0D28059-CAL6~~	~~5~~	~~1361~~	~~7.508~~	~~11.72~~
0D28059-CAL7	10	3230	9.045	11.72
0D28059-CAL8	20	8122	0.105	11.72
0D28059-CAL9	50	24353	0.112	11.72
0D28059-CALA	100	55724	0.119	11.71
0D28059-CALB	200	122105	0.124	11.71

AVE RF **0.110** RF RSD **12.02** AVE RT **11.72**

4-Chlorotoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	557	2.149	11.78
0D28059-CAL2	0.2	1076	1.820	11.79
0D28059-CAL3	0.4	2118	1.738	11.78
0D28059-CAL4	1	5937	1.768	11.78
0D28059-CAL5	2	11046	1.821	11.78
0D28059-CAL6	5	34971	1.943	11.78
0D28059-CAL7	10	74114	2.075	11.78
0D28059-CAL8	20	171897	2.214	11.78
0D28059-CAL9	50	475089	2.179	11.78
0D28059-CALA	100	977949	2.096	11.78
0D28059-CALB	200	2189587	2.224	11.78

AVE RF **2.002** RF RSD **9.41** AVE RT **11.78**

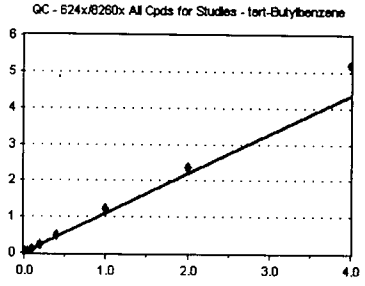
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

tert-Butylbenzene

Curve Fit: **AVERAGE RF**

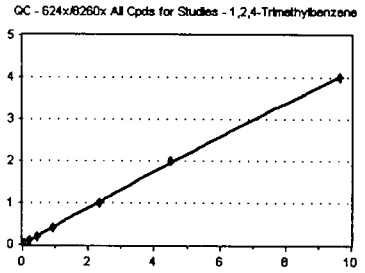


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~367~~	~~1.377~~	~~11.92~~
0D28059-CAL2	0.2	592	1.001	11.92
0D28059-CAL3	0.4	1103	0.905	11.91
0D28059-CAL4	1	3171	0.944	11.92
0D28059-CAL5	2	5969	0.984	11.92
0D28059-CAL6	5	18795	1.044	11.92
0D28059-CAL7	10	39548	1.107	11.92
0D28059-CAL8	20	93619	1.206	11.91
0D28059-CAL9	50	266112	1.220	11.91
0D28059-CALA	100	553693	1.187	11.91
0D28059-CALB	200	1274708	1.295	11.91

AVE RF **1.089** RF RSD **12.18** AVE RT **11.91**

1,2,4-Trimethylbenzene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

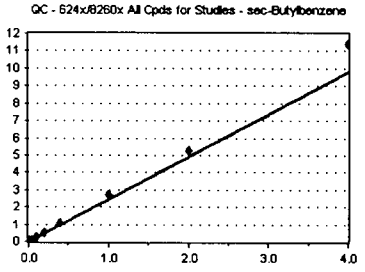


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~468~~	~~1.806~~	~~11.97~~
~~0D28059-CAL2~~	~~0.2~~	~~860~~	~~1.454~~	~~11.97~~
0D28059-CAL3	0.4	1738	1.426	11.97
0D28059-CAL4	1	5139	1.530	11.97
0D28059-CAL5	2	9775	1.612	11.96
0D28059-CAL6	5	35221	1.957	11.96
0D28059-CAL7	10	77201	2.162	11.96
0D28059-CAL8	20	181278	2.334	11.96
0D28059-CAL9	50	509496	2.336	11.96
0D28059-CALA	100	1047842	2.246	11.96
0D28059-CALB	200	2375385	2.412	11.96

AVE RF **2.002** RF RSD **19.22** AVE RT **11.97**

sec-Butylbenzene

Curve Fit: **AVERAGE RF**

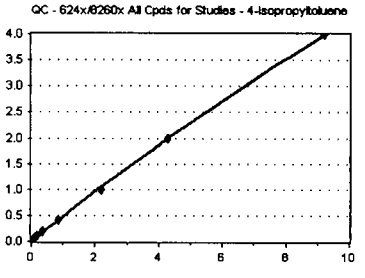


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~570~~	~~2.199~~	~~12.04~~
~~0D28059-CAL2~~	~~0.2~~	~~1055~~	~~1.784~~	~~12.05~~
~~0D28059-CAL3~~	~~0.4~~	~~2369~~	~~1.944~~	~~12.05~~
0D28059-CAL4	1	6597	1.964	12.05
0D28059-CAL5	2	12245	2.019	12.04
0D28059-CAL6	5	41621	2.313	12.04
0D28059-CAL7	10	88075	2.466	12.04
0D28059-CAL8	20	208931	2.690	12.04
0D28059-CAL9	50	590118	2.706	12.04
0D28059-CALA	100	1227821	2.632	12.04
0D28059-CALB	200	2807398	2.851	12.04

AVE RF **2.455** RF RSD **13.40** AVE RT **12.04**

4-Isopropyltoluene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~409~~	~~1.578~~	~~12.15~~
0D28059-CAL2	0.2	770	1.302	12.15
0D28059-CAL3	0.4	1664	1.365	12.15
0D28059-CAL4	1	4567	1.360	12.15
0D28059-CAL5	2	8900	1.467	12.15
0D28059-CAL6	5	30863	1.715	12.15
0D28059-CAL7	10	66417	1.860	12.15
0D28059-CAL8	20	162974	2.099	12.15
0D28059-CAL9	50	475738	2.182	12.15
0D28059-CALA	100	998151	2.139	12.15
0D28059-CALB	200	2273833	2.309	12.15

AVE RF **1.780** RF RSD **21.82** AVE RT **12.15**

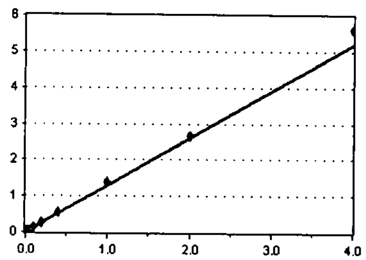
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,3-Dichlorobenzene

Curve Fit: **AVERAGE RF**

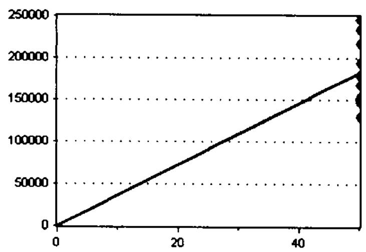


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	351	1.354	12.23
0D28059-CAL2	0.2	720	1.218	12.23
0D28059-CAL3	0.4	1456	1.195	12.23
0D28059-CAL4	1	4061	1.209	12.22
0D28059-CAL5	2	7077	1.167	12.22
0D28059-CAL6	5	23270	1.293	12.22
0D28059-CAL7	10	47228	1.323	12.22
0D28059-CAL8	20	108348	1.395	12.22
0D28059-CAL9	50	304760	1.398	12.22
0D28059-CALA	100	624132	1.338	12.22
0D28059-CALB	200	1380557	1.402	12.22

AVE RF **1.299** RF RSD **6.79** AVE RT **12.22**

1,4-Dichlorobenzene-d4 (ISTD)

Curve Fit: **AVERAGE RF**

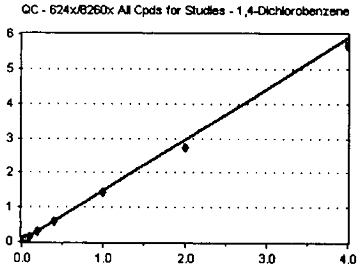


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	50	129589	2591.780	12.28
0D28059-CAL2	50	147833	2956.660	12.28
0D28059-CAL3	50	152333	3046.660	12.28
0D28059-CAL4	50	167927	3358.540	12.28
0D28059-CAL5	50	151641	3032.820	12.28
0D28059-CAL6	50	179946	3598.920	12.28
0D28059-CAL7	50	178553	3571.060	12.28
0D28059-CAL8	50	194144	3882.880	12.28
0D28059-CAL9	50	218062	4361.240	12.28
0D28059-CALA	50	233282	4665.640	12.28
0D28059-CALB	50	246154	4923.080	12.28

AVE RF **3635.389** RF RSD **20.68** AVE RT **12.28**

1,4-Dichlorobenzene

Curve Fit: **AVERAGE RF**

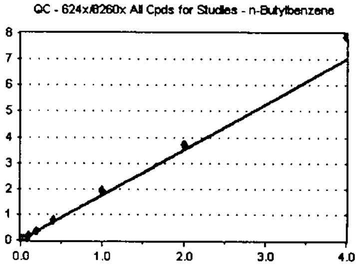


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	460	1.775	12.28
0D28059-CAL2	0.2	974	1.647	12.29
0D28059-CAL3	0.4	1856	1.523	12.29
0D28059-CAL4	1	4946	1.473	12.29
0D28059-CAL5	2	8207	1.353	12.29
0D28059-CAL6	5	25459	1.415	12.29
0D28059-CAL7	10	50096	1.403	12.29
0D28059-CAL8	20	112685	1.451	12.29
0D28059-CAL9	50	311097	1.427	12.29
0D28059-CALA	100	635898	1.363	12.29
0D28059-CALB	200	1398040	1.420	12.29

AVE RF **1.477** RF RSD **8.67** AVE RT **12.29**

n-Butylbenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~402~~	~~1.551~~	~~12.48~~
~~0D28059-CAL2~~	~~0.2~~	~~781~~	~~1.321~~	~~12.48~~
~~0D28059-CAL3~~	~~0.4~~	~~1571~~	~~1.289~~	~~12.47~~
0D28059-CAL4	1	4814	1.433	12.47
0D28059-CAL5	2	8803	1.451	12.47
0D28059-CAL6	5	29620	1.646	12.47
0D28059-CAL7	10	63004	1.764	12.47
0D28059-CAL8	20	150042	1.932	12.47
0D28059-CAL9	50	421761	1.934	12.46
0D28059-CALA	100	868364	1.861	12.46
0D28059-CALB	200	1938953	1.969	12.46

AVE RF **1.749** RF RSD **12.38** AVE RT **12.47**

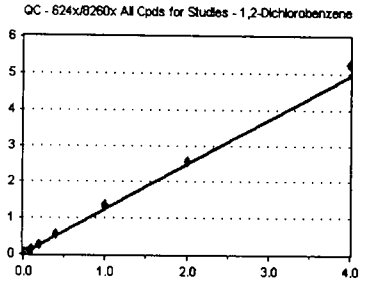
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

1,2-Dichlorobenzene

Curve Fit: **AVERAGE RF**

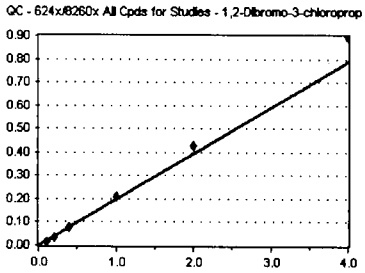


Standard	Concentration	Response	Response Factor	RT
0D28059-CAL1	0.1	327	1.262	12.62
0D28059-CAL2	0.2	615	1.040	12.62
0D28059-CAL3	0.4	1407	1.155	12.62
0D28059-CAL4	1	3752	1.117	12.62
0D28059-CAL5	2	7179	1.184	12.62
0D28059-CAL6	5	22390	1.244	12.62
0D28059-CAL7	10	45442	1.273	12.62
0D28059-CAL8	20	105171	1.354	12.61
0D28059-CAL9	50	294861	1.352	12.61
0D28059-CALA	100	599072	1.284	12.61
0D28059-CALB	200	1294660	1.315	12.61

AVE RF **1.234** RF RSD **8.10** AVE RT **12.61**

1,2-Dibromo-3-chloropropane

Curve Fit: **AVERAGE RF**

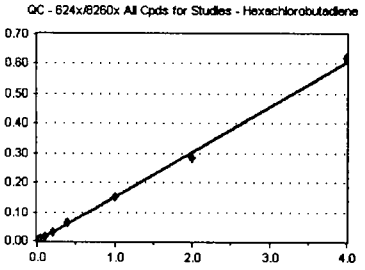


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~62~~	~~0.105~~	~~13.27~~
~~0D28059-CAL3~~	~~0.4~~	~~156~~	~~0.128~~	~~13.26~~
~~0D28059-CAL4~~	~~1~~	~~408~~	~~0.121~~	~~13.27~~
~~0D28059-CAL5~~	~~2~~	~~865~~	~~0.141~~	~~13.26~~
0D28059-CAL6	5	2995	0.166	13.26
0D28059-CAL7	10	6172	0.173	13.26
0D28059-CAL8	20	15323	0.197	13.26
0D28059-CAL9	50	45658	0.209	13.26
0D28059-CALA	100	100386	0.215	13.26
0D28059-CALB	200	220807	0.224	13.26

AVE RF **0.198** RF RSD **11.85** AVE RT **13.26**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**

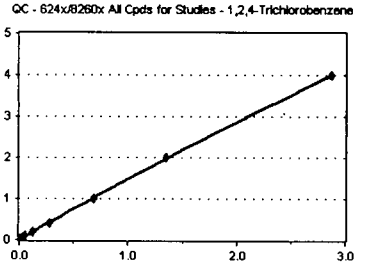


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~70~~	~~0.118~~	~~13.81~~
0D28059-CAL3	0.4	185	0.152	13.81
0D28059-CAL4	1	477	0.142	13.81
0D28059-CAL5	2	894	0.147	13.81
0D28059-CAL6	5	2853	0.159	13.81
0D28059-CAL7	10	5547	0.155	13.81
0D28059-CAL8	20	12746	0.164	13.81
0D28059-CAL9	50	32798	0.150	13.81
0D28059-CALA	100	65865	0.141	13.81
0D28059-CALB	200	152484	0.155	13.81

AVE RF **0.152** RF RSD **4.94** AVE RT **13.81**

1,2,4-Trichlorobenzene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~99~~	~~0.382~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~239~~	~~0.404~~	~~13.86~~
0D28059-CAL3	0.4	554	0.455	13.86
0D28059-CAL4	1	1599	0.476	13.86
0D28059-CAL5	2	2821	0.465	13.86
0D28059-CAL6	5	9612	0.534	13.85
0D28059-CAL7	10	21662	0.607	13.85
0D28059-CAL8	20	54807	0.706	13.85
0D28059-CAL9	50	150152	0.689	13.85
0D28059-CALA	100	314733	0.675	13.85
0D28059-CALB	200	708955	0.720	13.85

AVE RF **0.592** RF RSD **18.65** AVE RT **13.86**

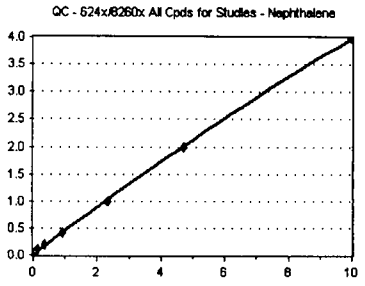
Element Calibration Review Sheet

Calibration ID: **A0D3007** Instrument: **VOA-GCMS7** Calibration Date: **04/30/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **VG200429W VG200429G**

Naphthalene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

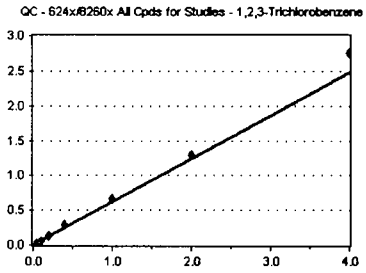


Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~291~~	~~1.123~~	~~14.19~~
~~0D28059-CAL2~~	~~0.2~~	~~494~~	~~0.835~~	~~14.19~~
~~0D28059-CAL3~~	~~0.4~~	~~1138~~	~~0.934~~	~~14.19~~
0D28059-CAL4	1	3600	1.072	14.18
0D28059-CAL5	2	6717	1.107	14.18
0D28059-CAL6	5	23409	1.301	14.18
0D28059-CAL7	10	61073	1.710	14.18
0D28059-CAL8	20	176300	2.270	14.18
0D28059-CAL9	50	510381	2.341	14.18
0D28059-CALA	100	1104031	2.366	14.18
0D28059-CALB	200	2456596	2.495	14.18

AVE RF **1.833** RF RSD **33.09** AVE RT **14.18**

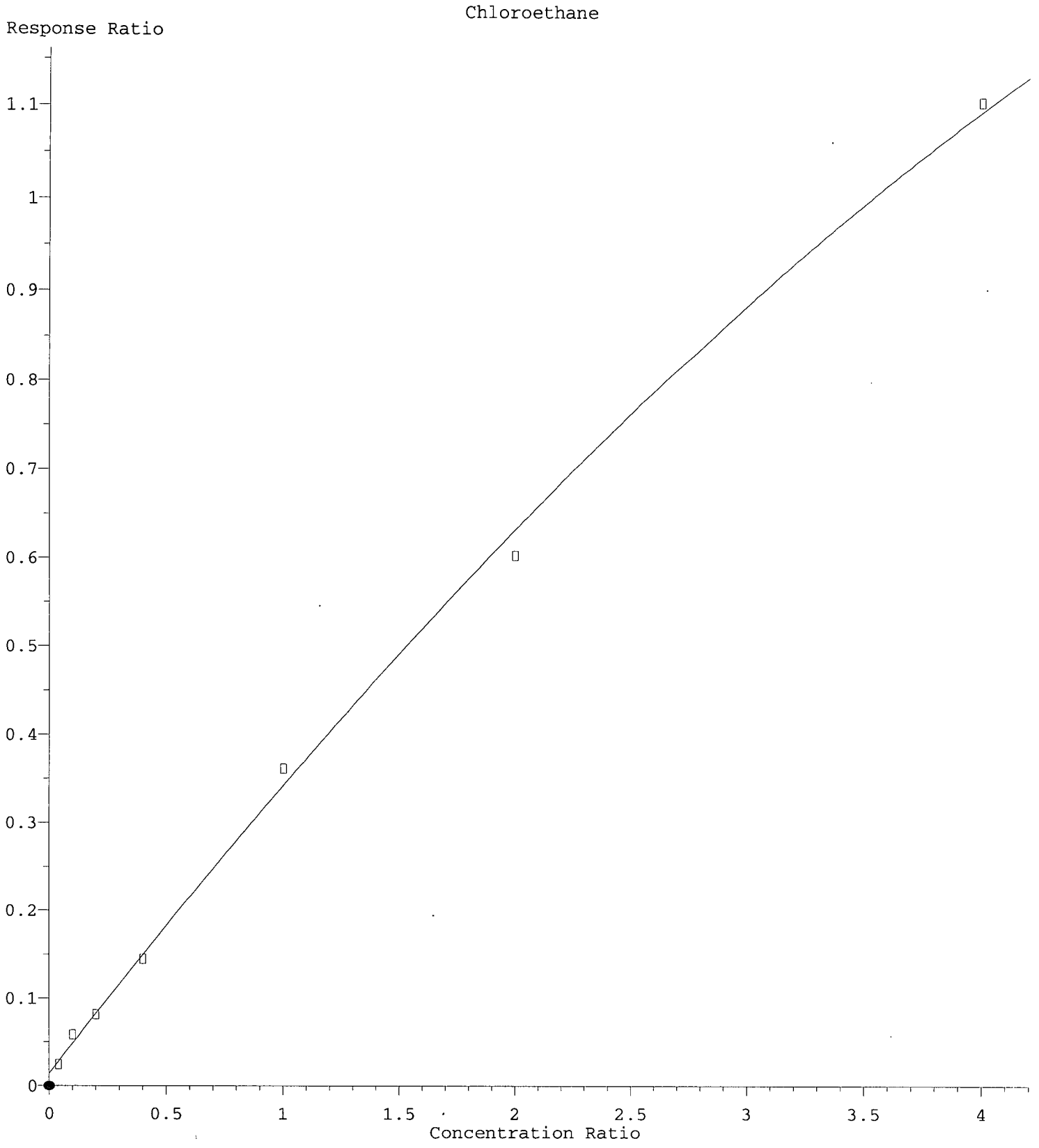
1,2,3-Trichlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0D28059-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0D28059-CAL2~~	~~0.2~~	~~236~~	~~0.399~~	~~14.37~~
~~0D28059-CAL3~~	~~0.4~~	~~532~~	~~0.437~~	~~14.38~~
~~0D28059-CAL4~~	~~1~~	~~1517~~	~~0.452~~	~~14.38~~
0D28059-CAL5	2	2840	0.468	14.37
0D28059-CAL6	5	9690	0.538	14.37
0D28059-CAL7	10	22187	0.621	14.37
0D28059-CAL8	20	55471	0.714	14.37
0D28059-CAL9	50	144488	0.663	14.37
0D28059-CALA	100	301675	0.647	14.37
0D28059-CALB	200	678103	0.689	14.37

AVE RF **0.620** RF RSD **14.09** AVE RT **14.37**



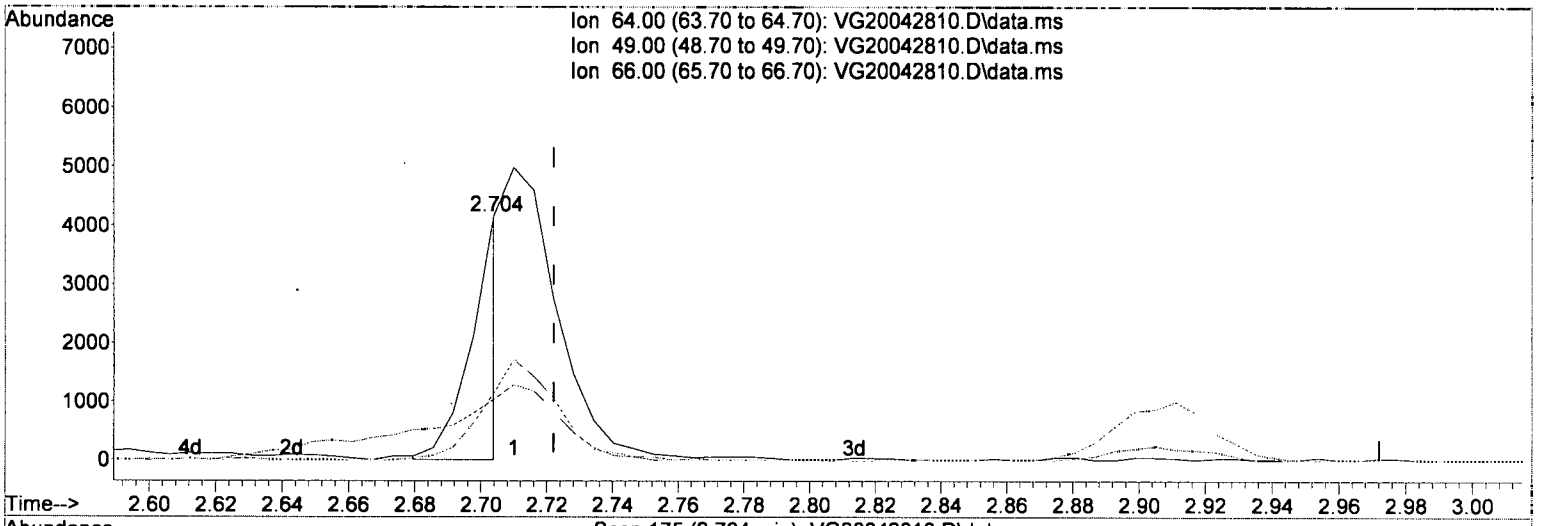
Intercept < MDL
4/30/2020

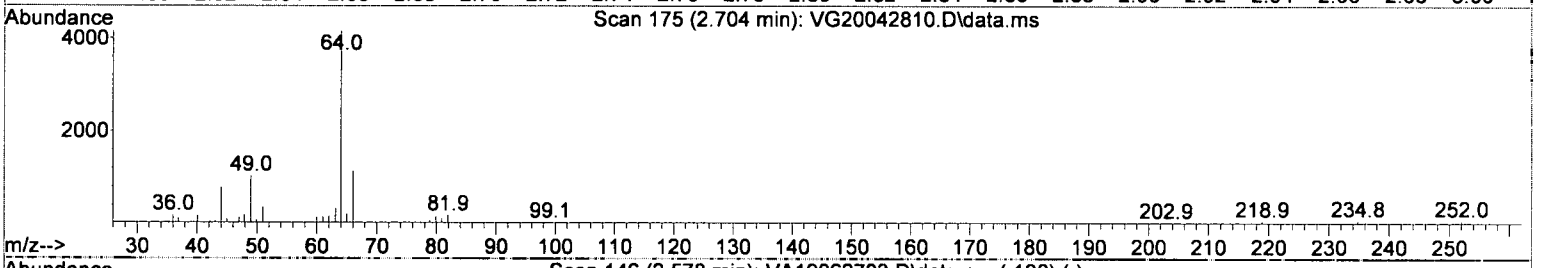
R = -1.92e-002 A*A + 9.47e-001 A + 1.39e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Thu Apr 30 09:25:52 2020

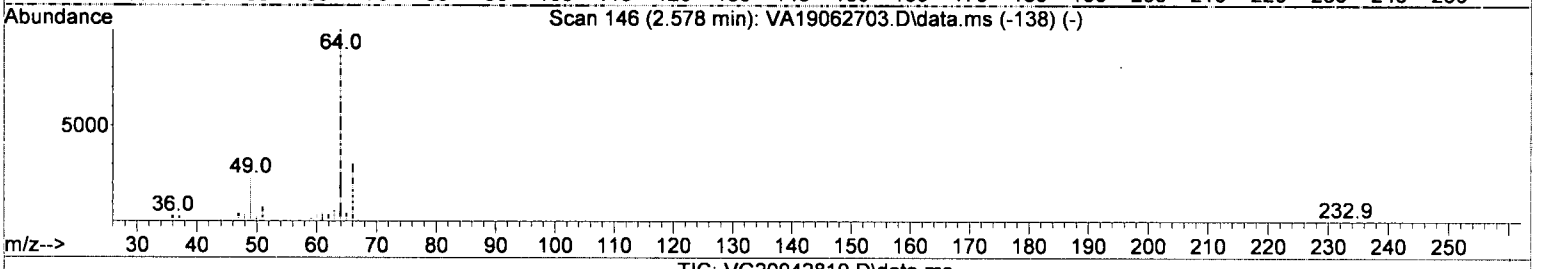
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







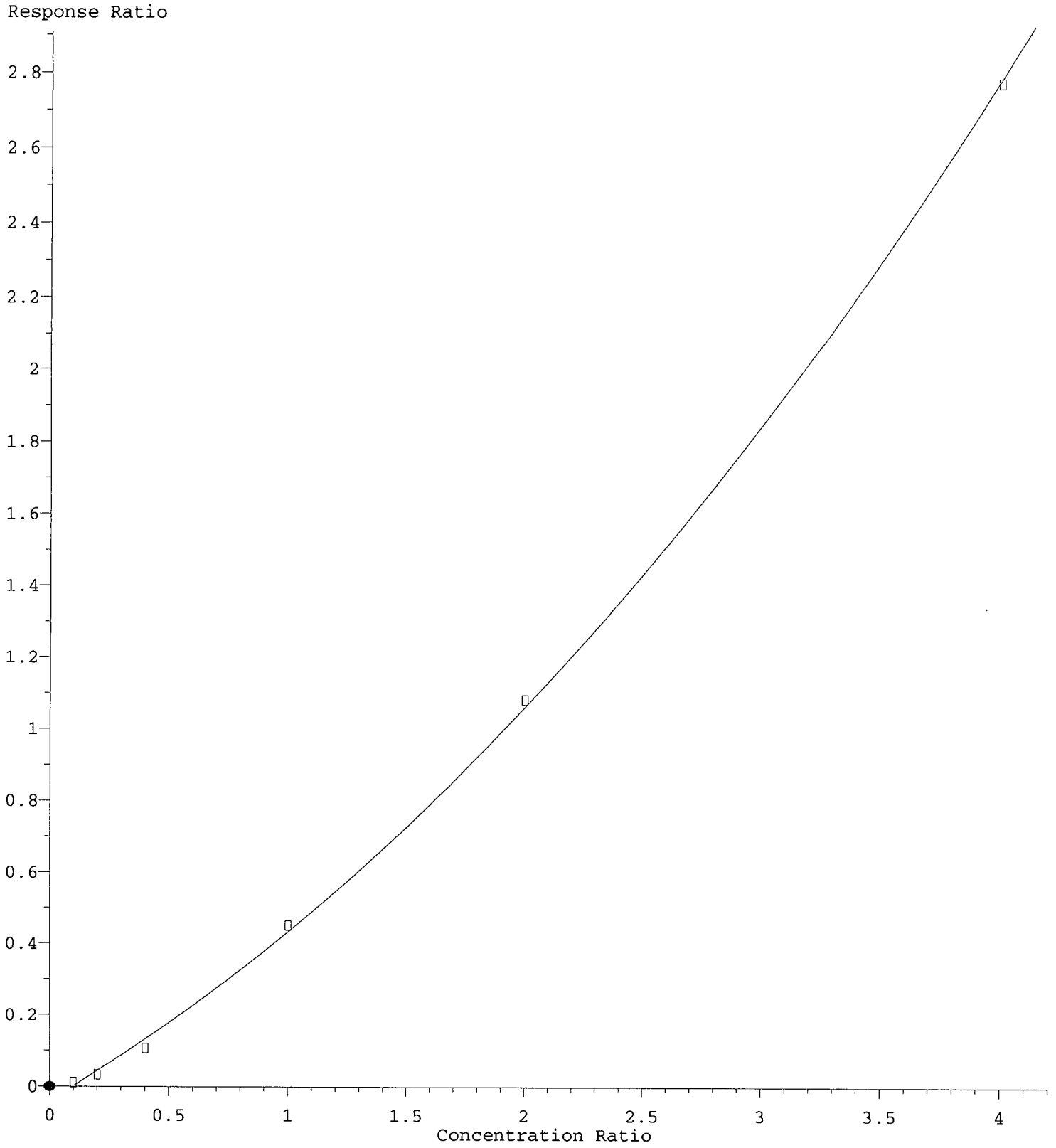
TIC: VG20042810.D\data.ms

(6) Chloroethane

2.704min (-0.018) 0.69 ug/L m

response 2666

Ion	Exp%	Act%
64.00	100.00	100.00
49.00	24.30	24.78
66.00	31.30	27.23
0.00	0.00	0.00



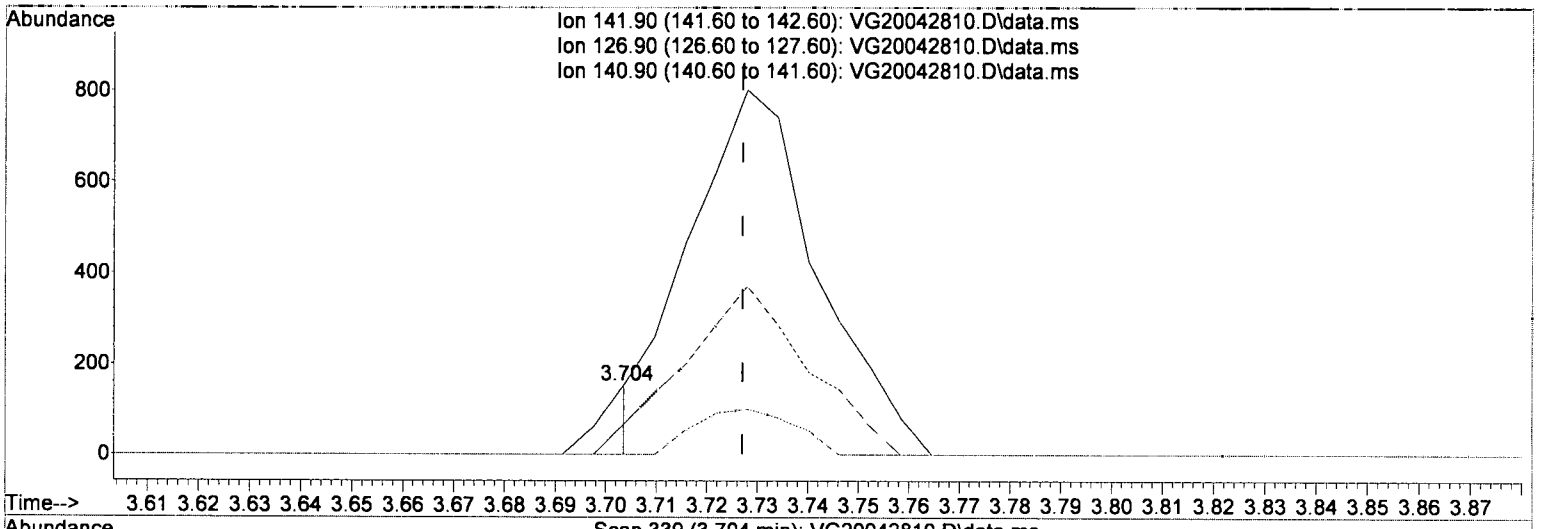
Intercept LMR
4/30/2021

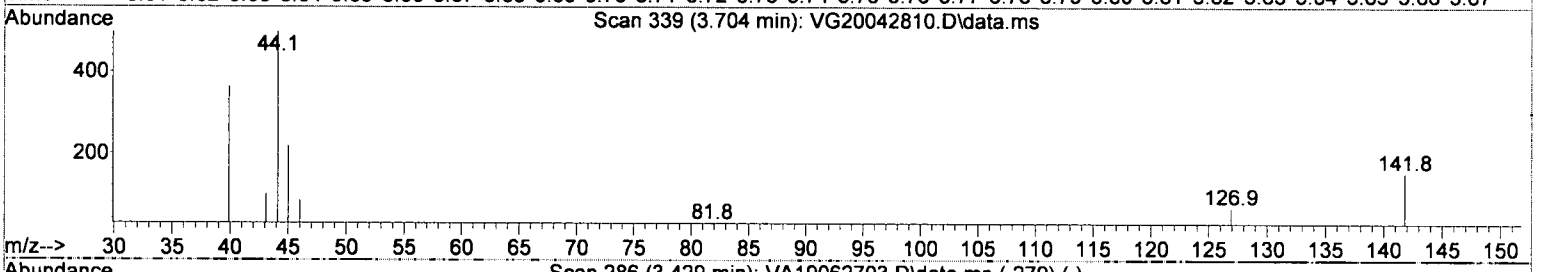
R = 7.77e-002 A*A + 3.07e-002 A + 3.87e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:24:07 2020

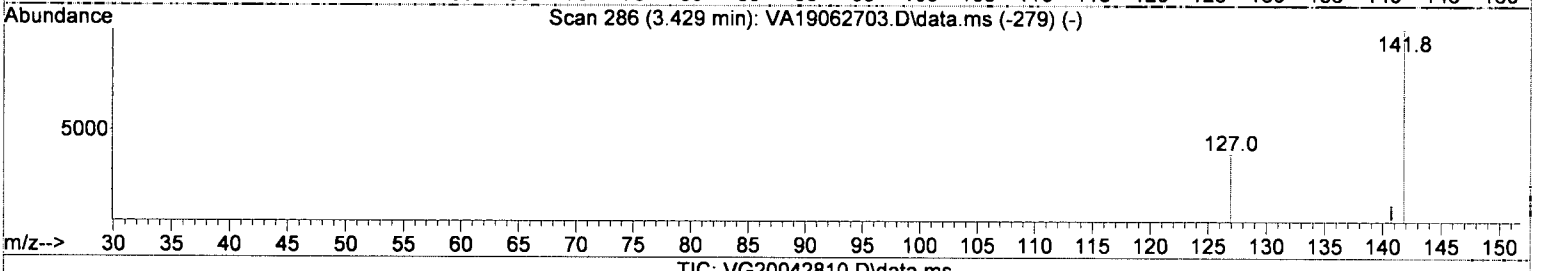
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







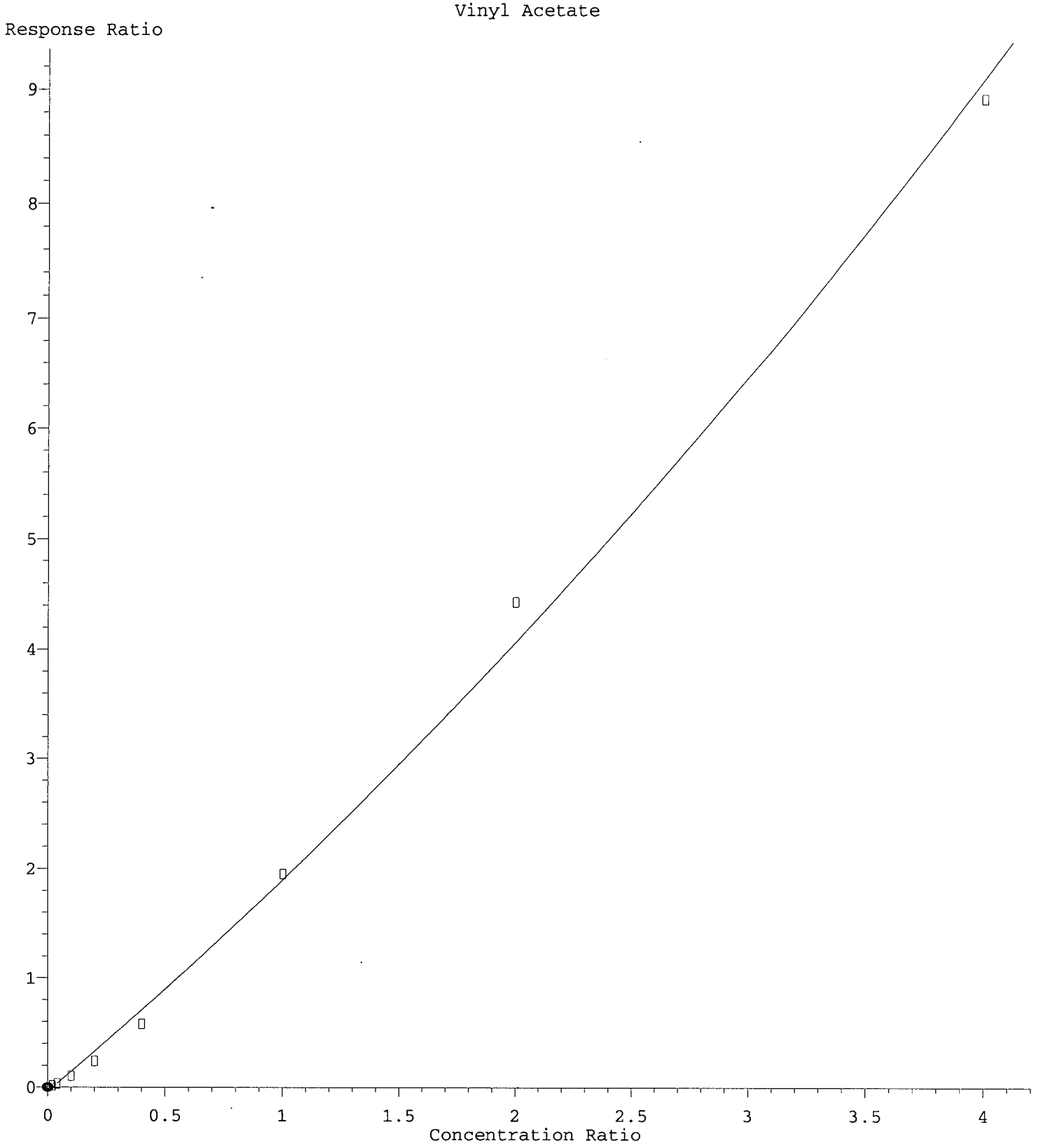
TIC: VG20042810.D\data.ms

(12) Iodomethane

3.704min (-0.023) 4.88 ug/L m

response 78

Ion	Exp%	Act%
141.90	100.00	100.00
126.90	34.80	43.79
140.90	15.30	0.00
0.00	0.00	0.00



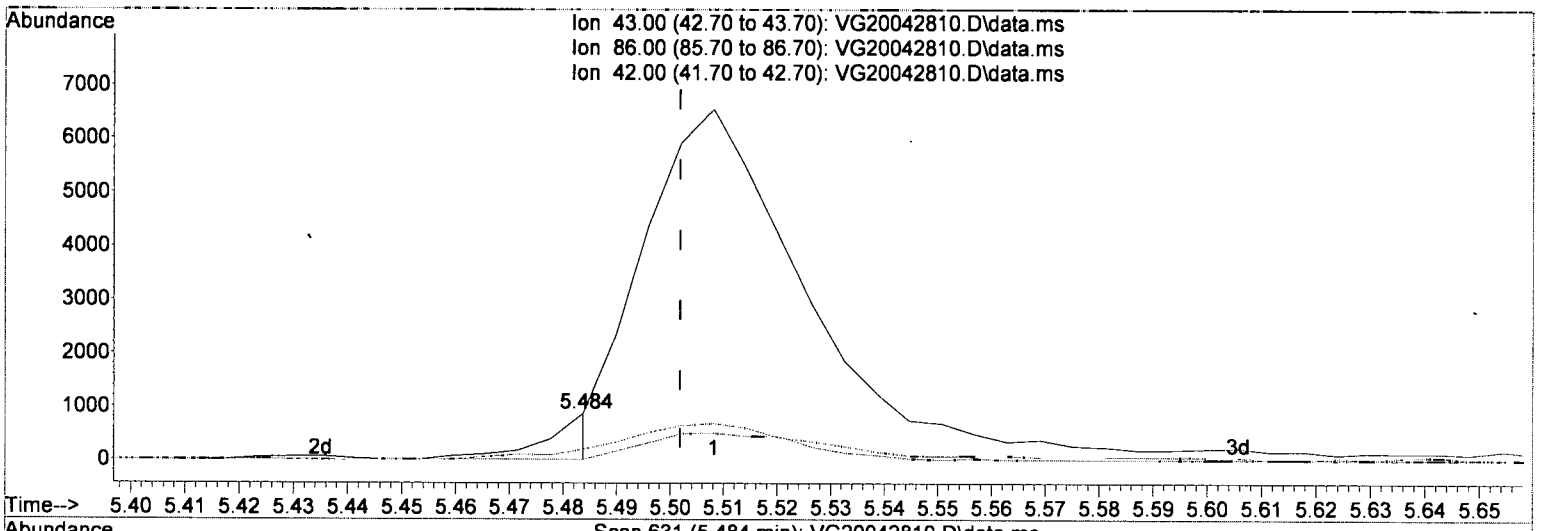
Intercept CMDL 4/30/2021

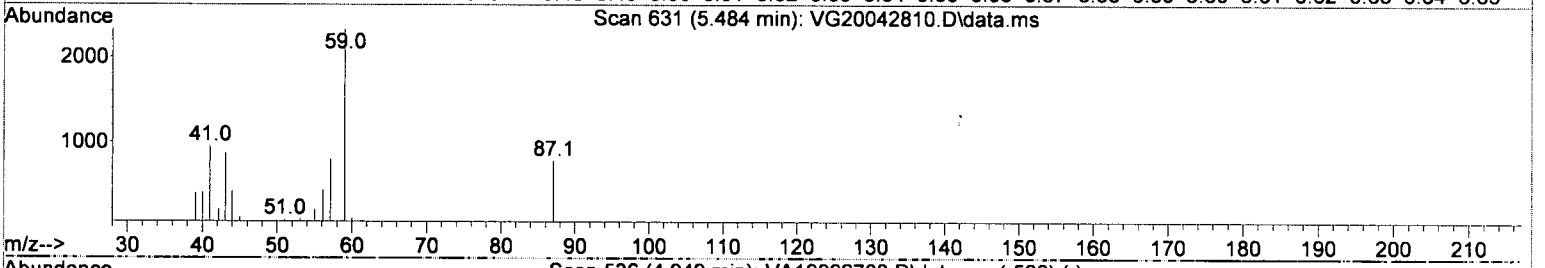
R = 1.14e-001 A*A + 1.82e-000 A + 4.13e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:27:34 2020

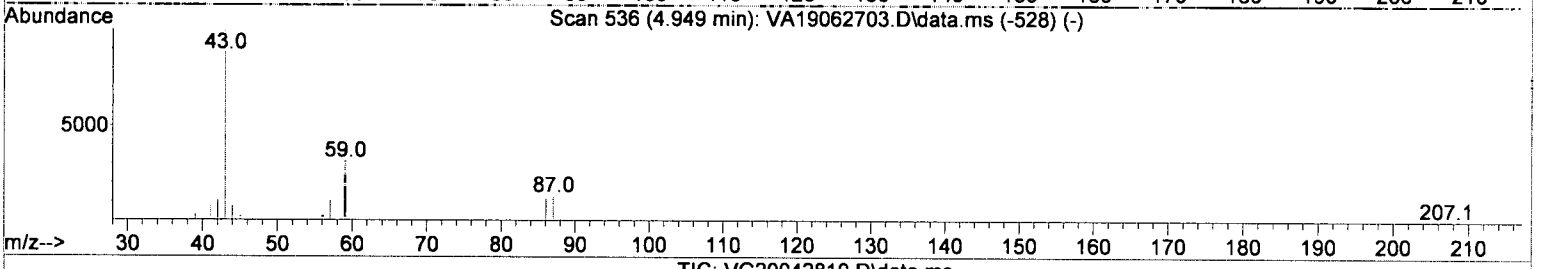
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20042810.D\data.ms

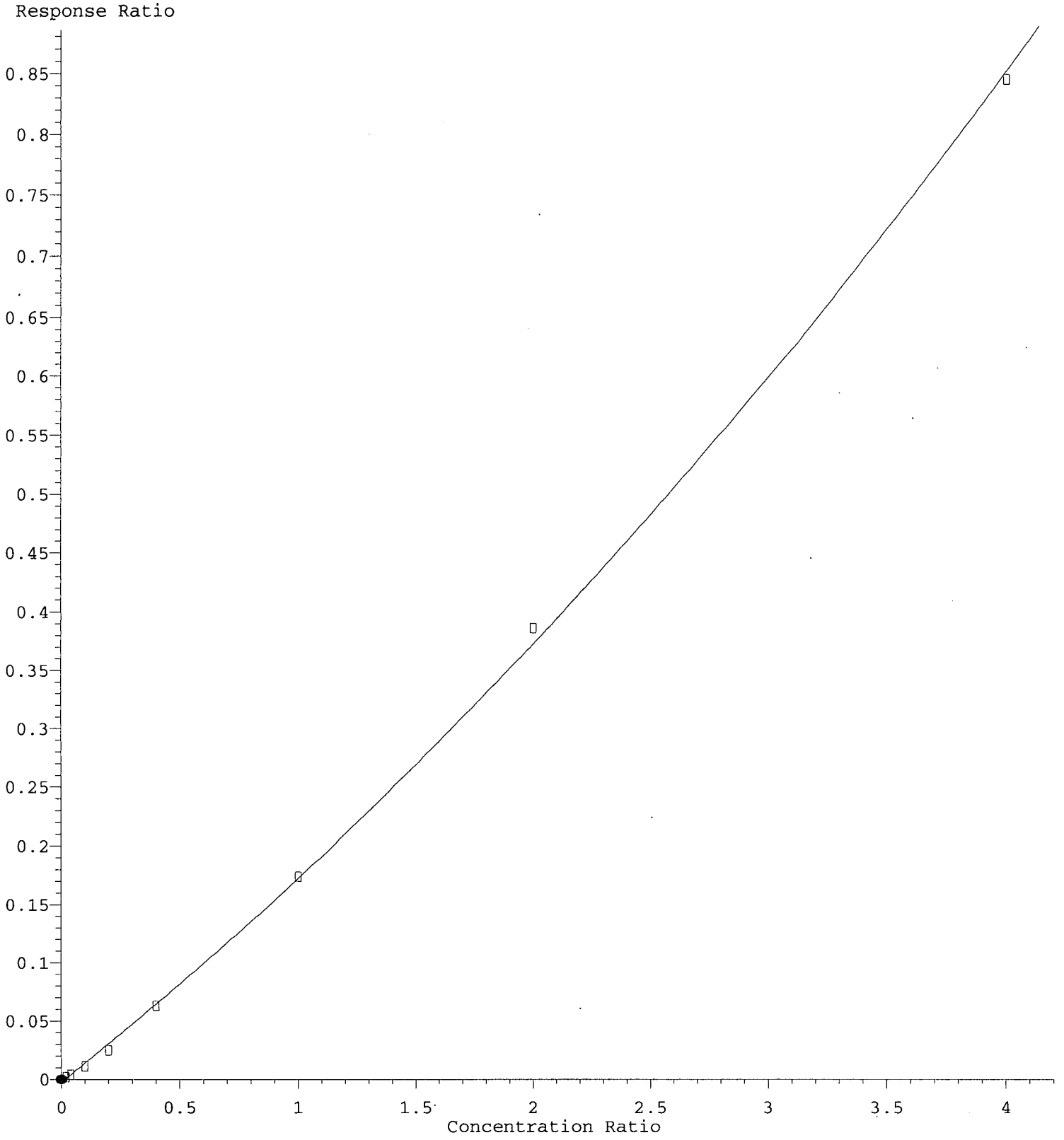
(23) Vinyl Acetate

5.484min (-0.018) 1.24 ug/L m

response 585

Ion	Exp%	Act%
43.00	100.00	100.00
86.00	10.60	0.00
42.00	8.70	22.41
0.00	0.00	0.00

2-Chloroethyl Vinyl Ether



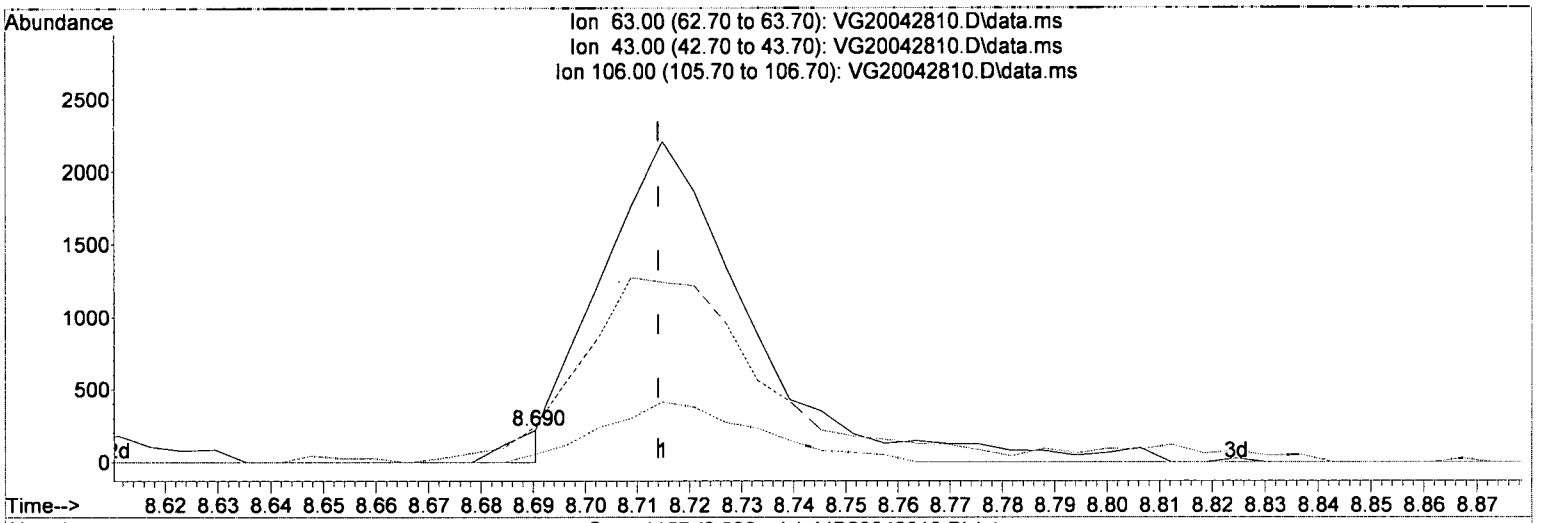
Intercept LMDL
4/30/2021

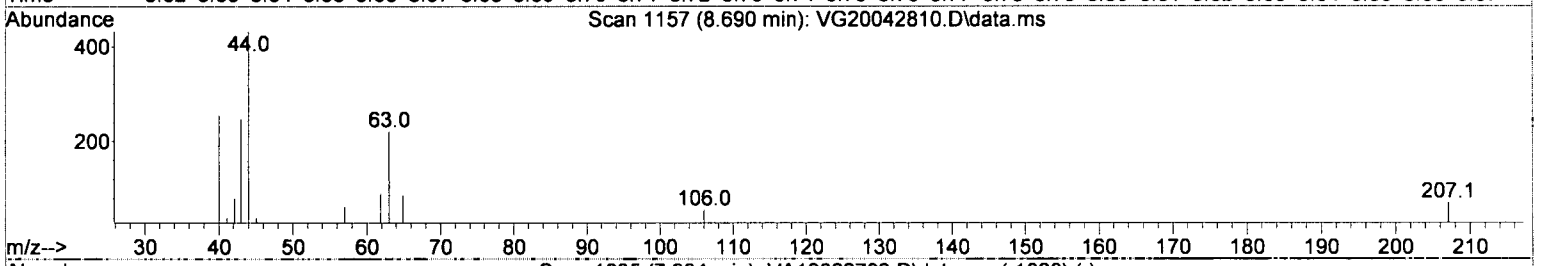
R = 1.29e-002 A*A + 1.76e-001 A + 2.43e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:44:50 2020

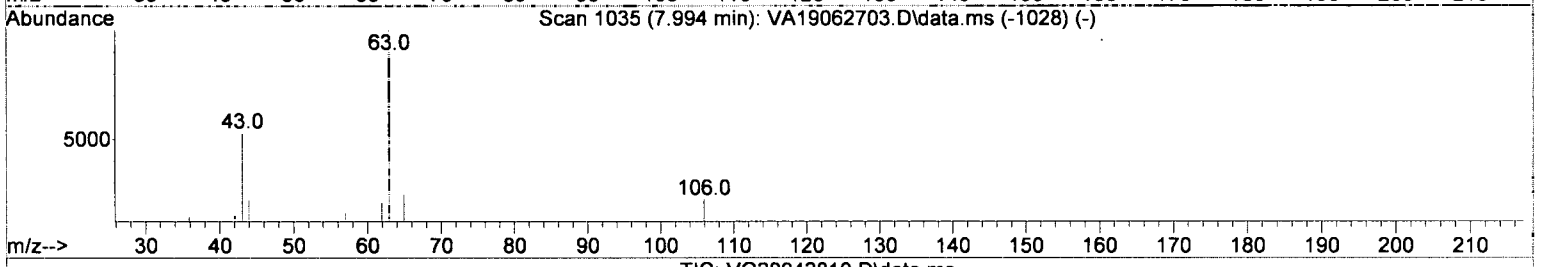
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 30 09:26:42 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20042810.D\data.ms

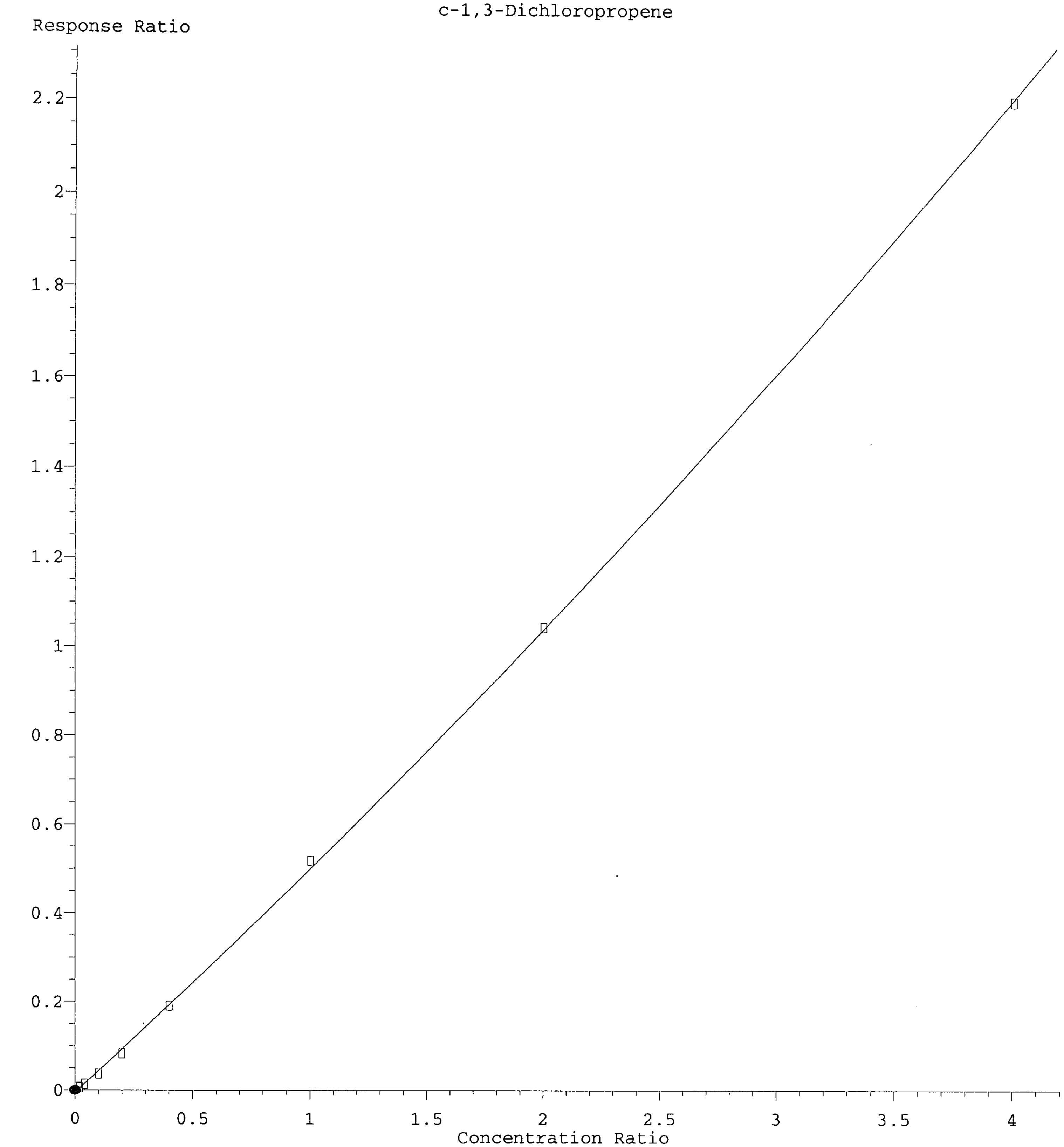
(46) 2-Chloroethyl Vinyl Ether

8.690min (-0.024) 0.85 ug/L m

response 124

Ion	Exp%	Act%
63.00	100.00	100.00
43.00	282.80	112.22#
106.00	0.00	25.34
0.00	0.00	0.00

c-1,3-Dichloropropene



Intercept > MDL

MDL ↑ MRL ↑

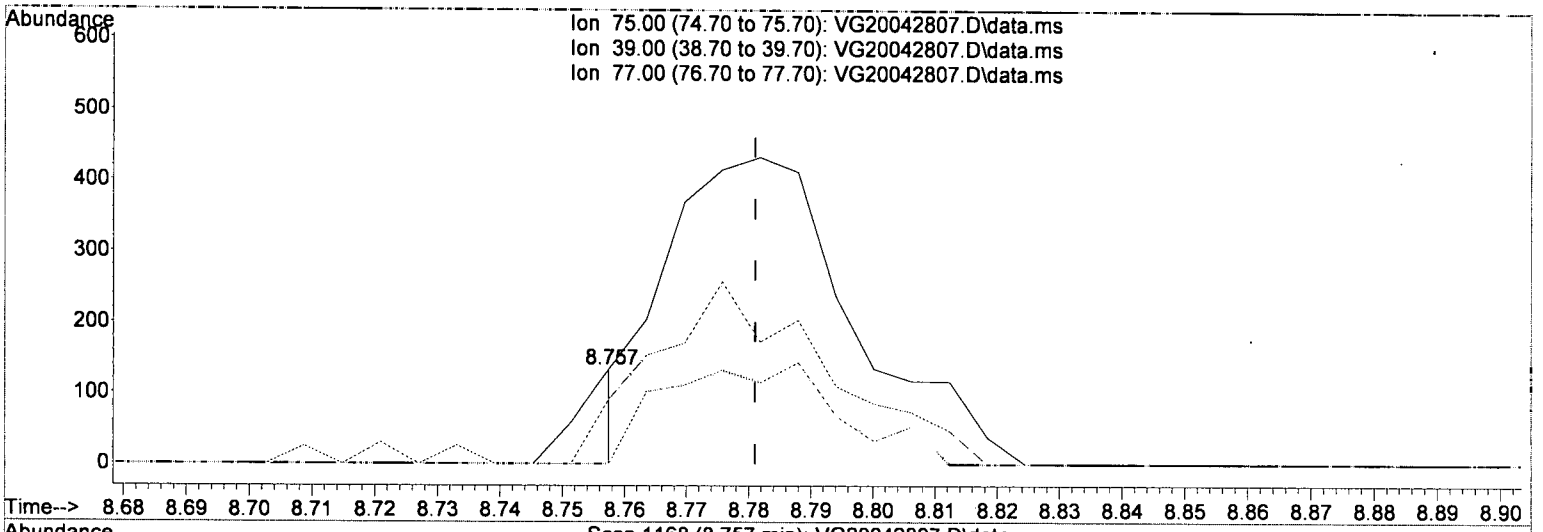
1ppb/2ppb —

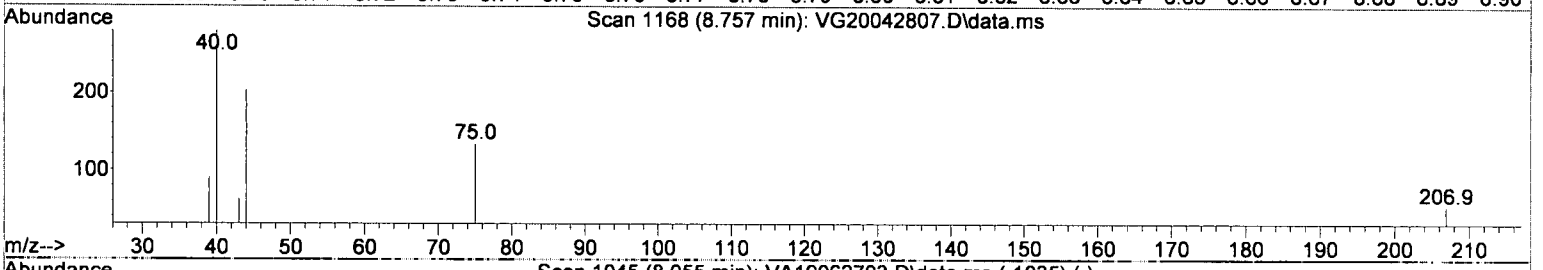
R = 1.59e-002 A*A + 4.07e-001 A + 5.76e-003
Coef of Det (r^2) = 0.999   Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:49:14 2020

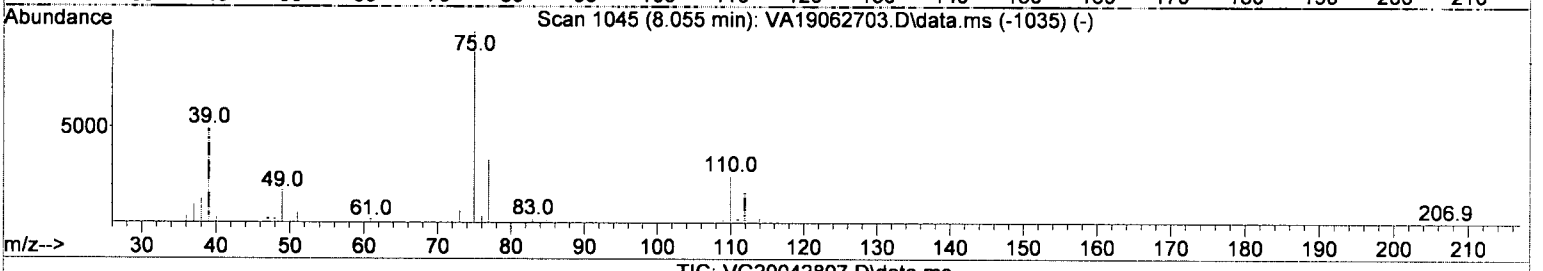
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







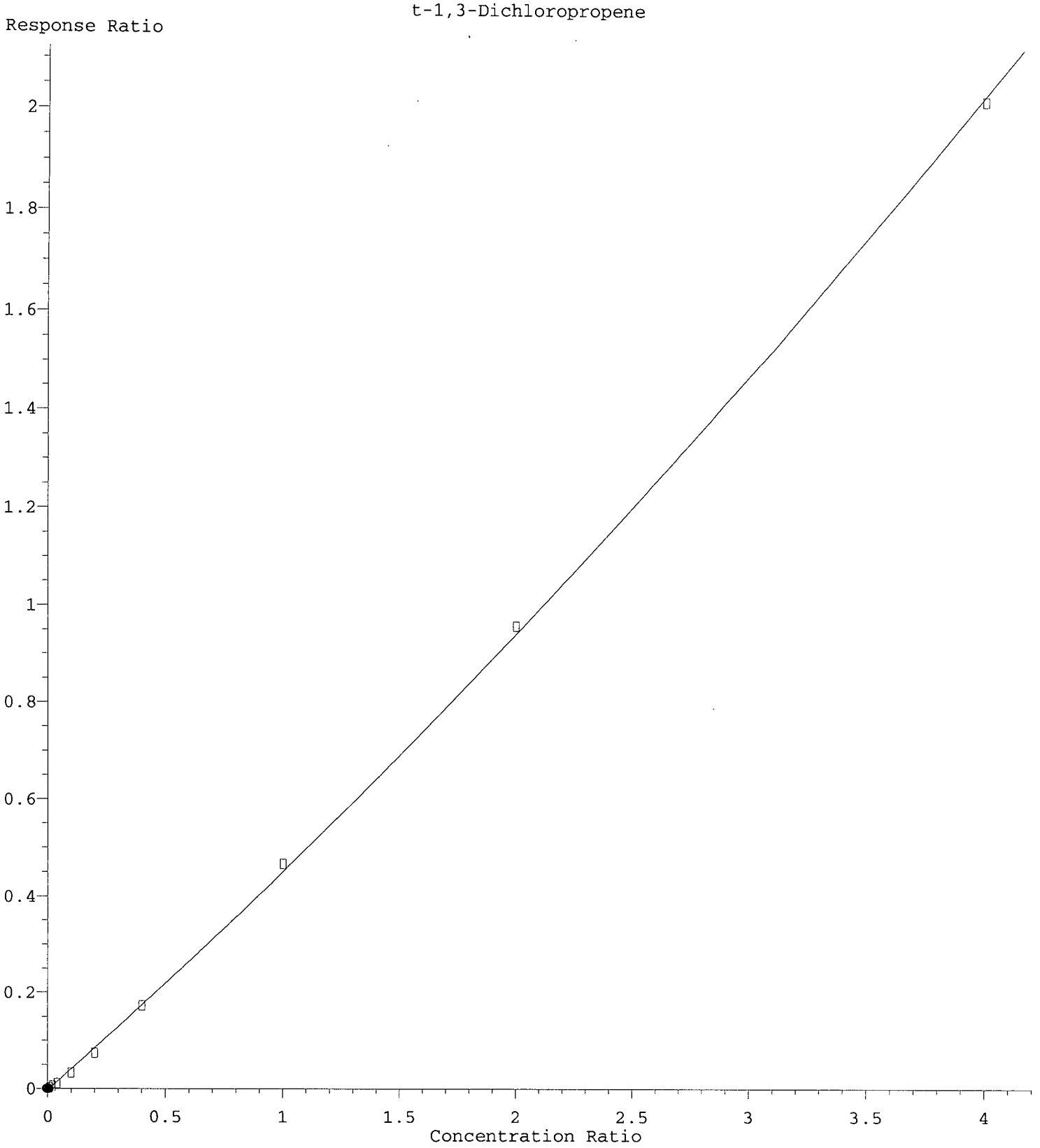
TIC: VG20042807.D\data.ms

(47) c-1,3-Dichloropropene

8.757min (-0.024) 0.61 ug/L m

response 70

Ion	Exp%	Act%
75.00	100.00	100.00
39.00	50.30	67.91
77.00	31.90	0.00#
0.00	0.00	0.00



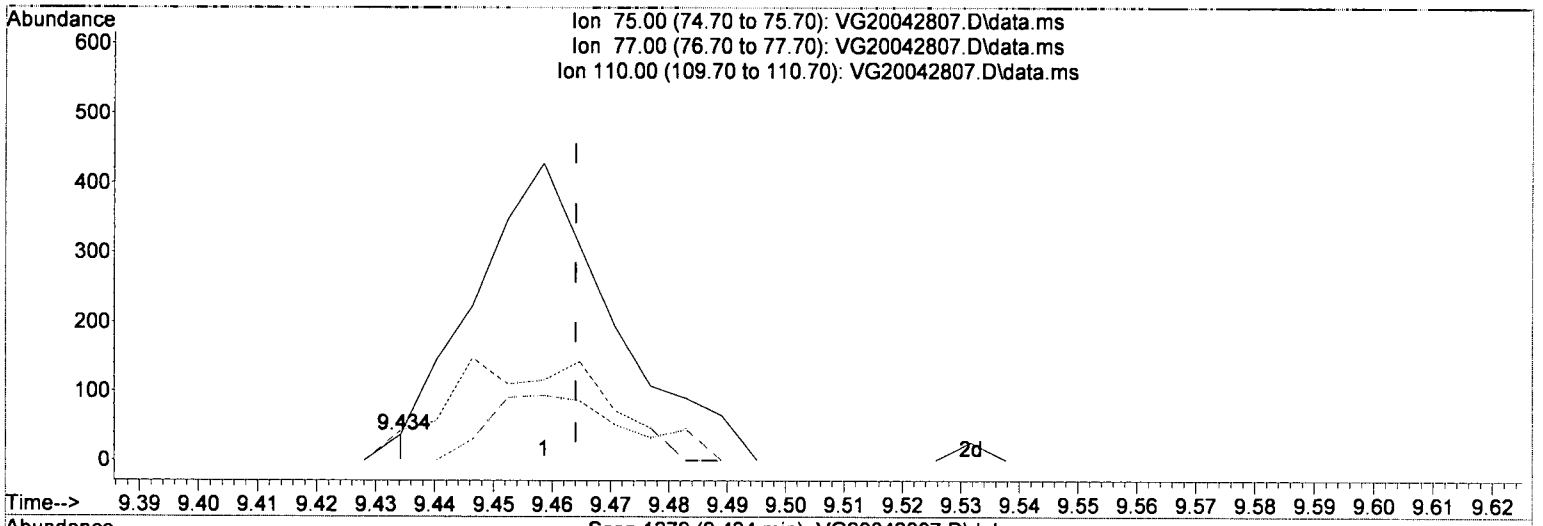
Intercept LMDL
4/30/2020

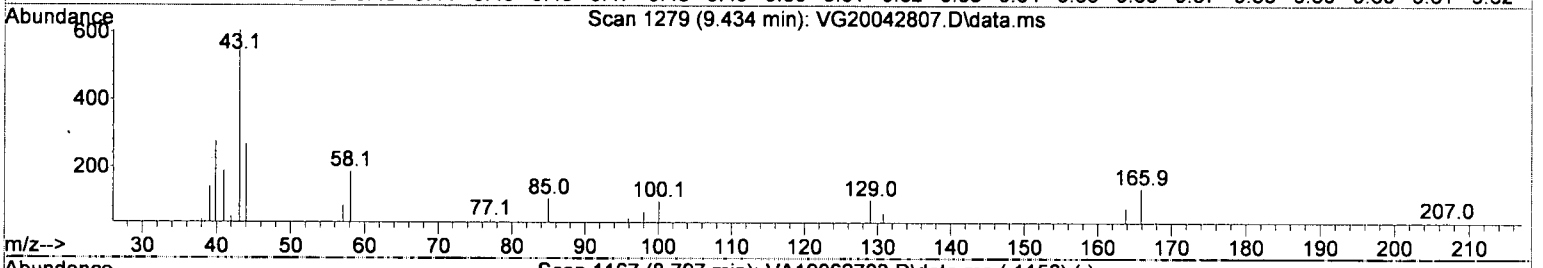
R = 1.86e-002 A*A + 4.734e-001 A + 3.03e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:51:43 2020

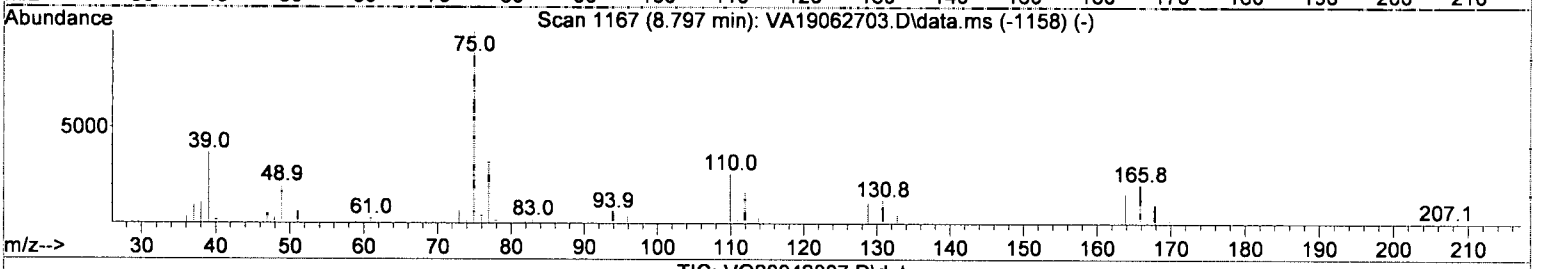
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







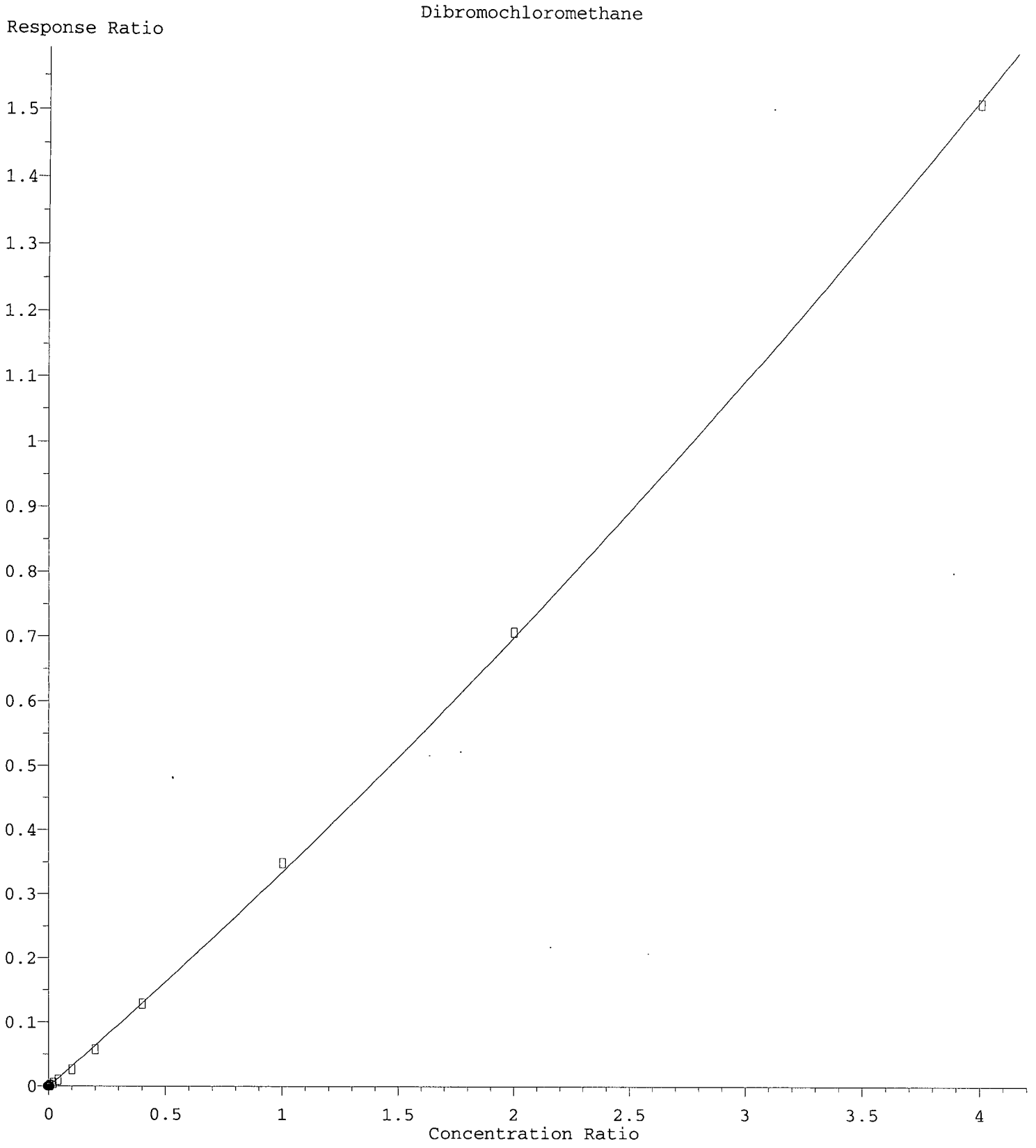
TIC: VG20042807.D\data.ms

(52) t-1,3-Dichloropropene

9.434min (-0.030) 0.35 ug/L m

response 14

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	33.20	116.22#
110.00	25.60	0.00
0.00	0.00	0.00



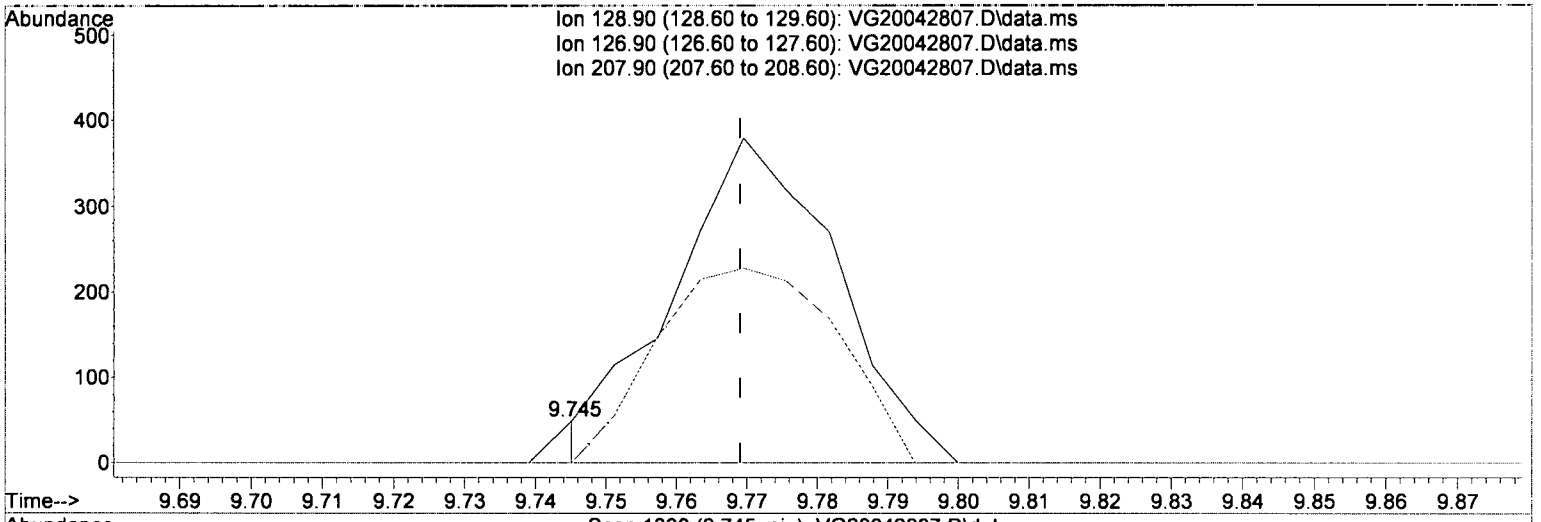
Intercept CMDN
4/30/2021

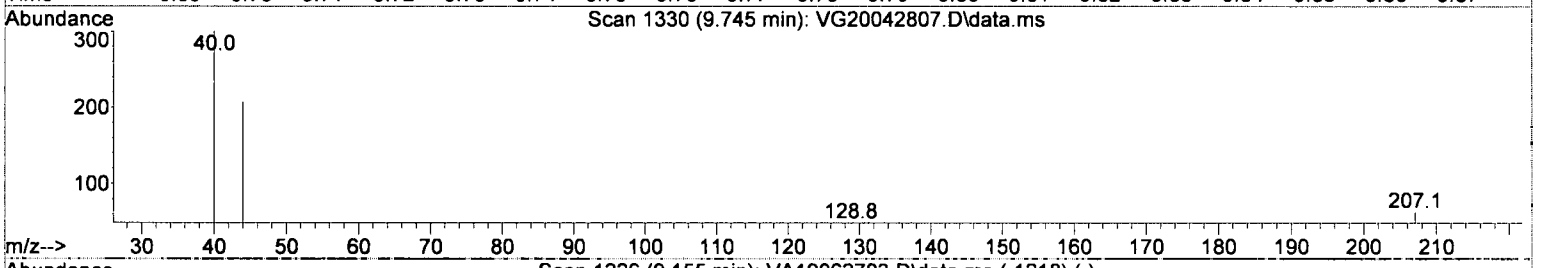
R = 1.52e-002 A*A + 3.24e-001 A + 1.03e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 15:54:09 2020

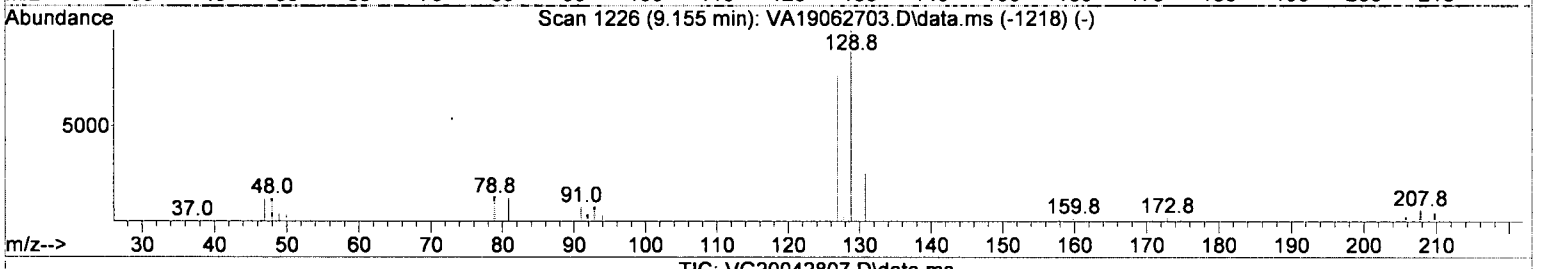
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







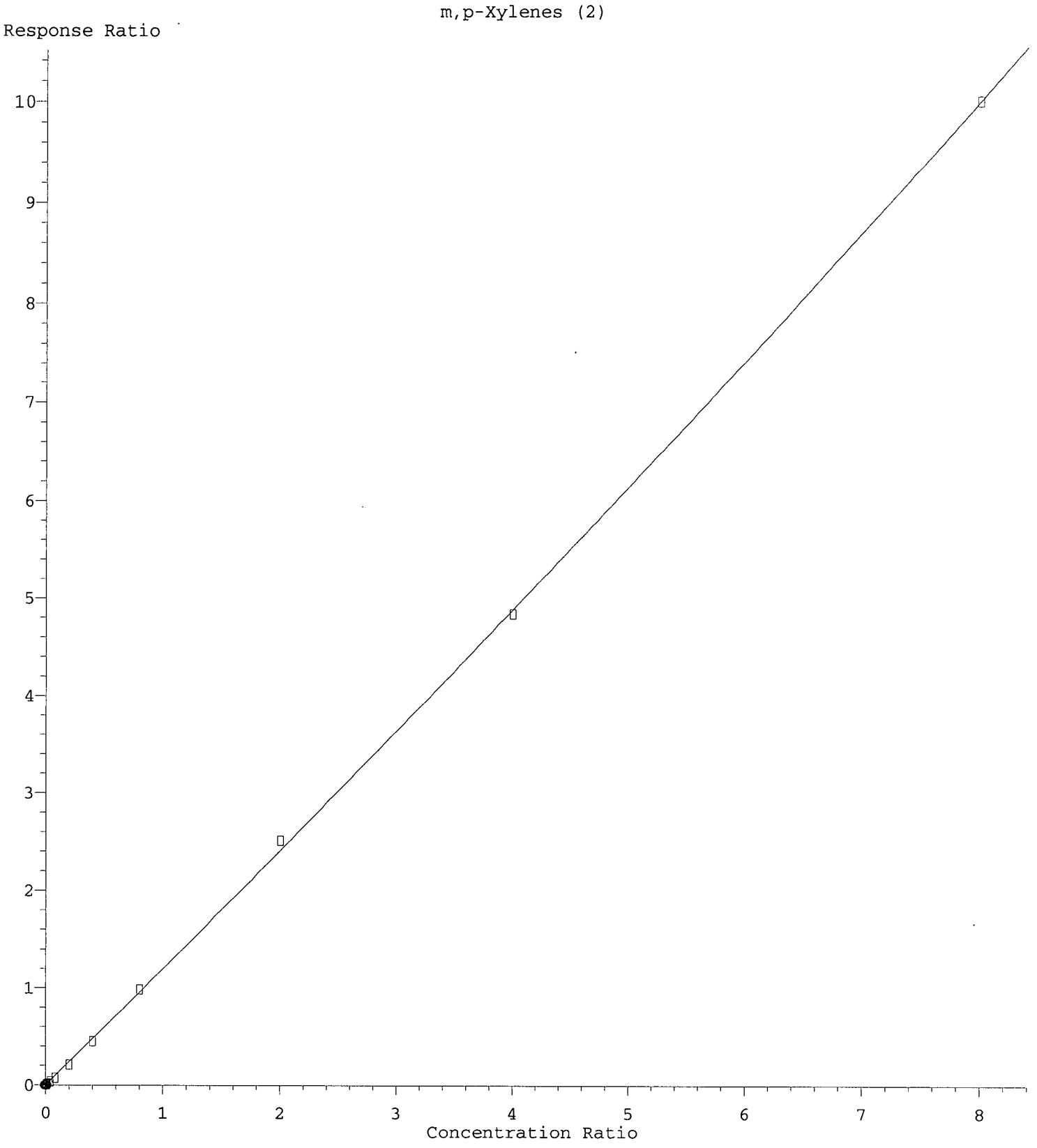
TIC: VG20042807.D\data.ms

(54) Dibromochloromethane

9.745min (-0.024) 0.17 ug/L m

response 18

Ion	Exp%	Act%
128.90	100.00	100.00
126.90	77.40	0.00#
207.90	7.30	0.00
0.00	0.00	0.00



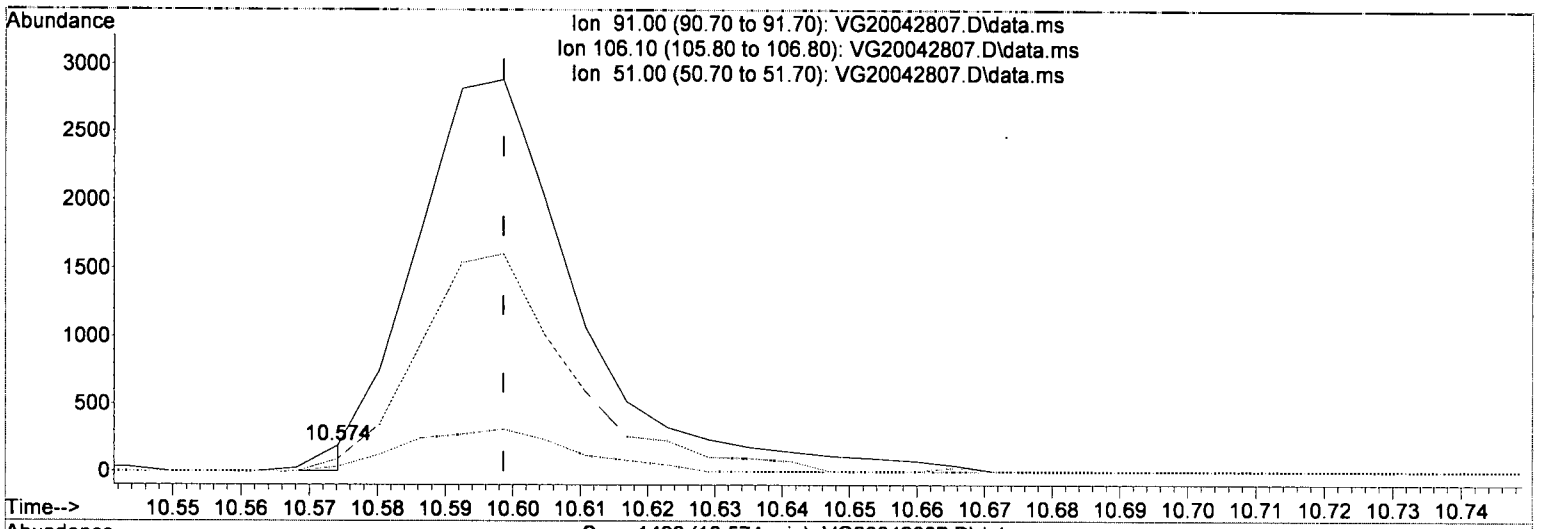
Intercept 4/MDL
4/30/2020

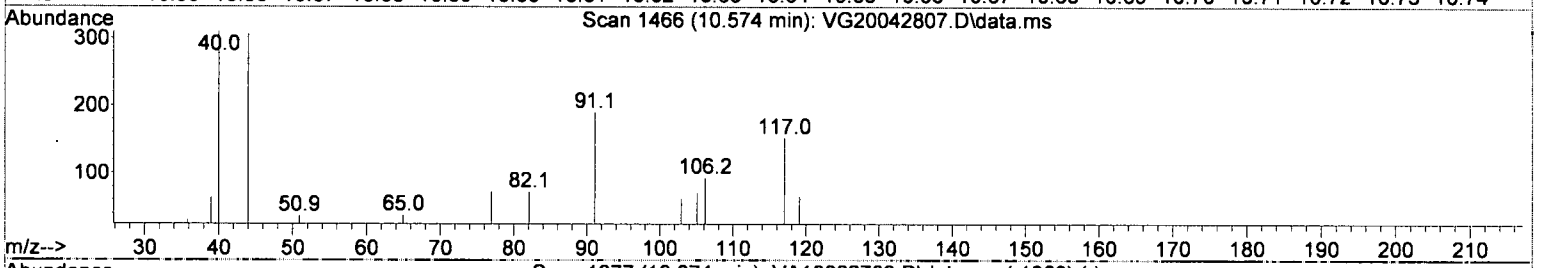
R = 7.15e-003 A*A + 1.19e+000 A + 3.33e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:04:43 2020

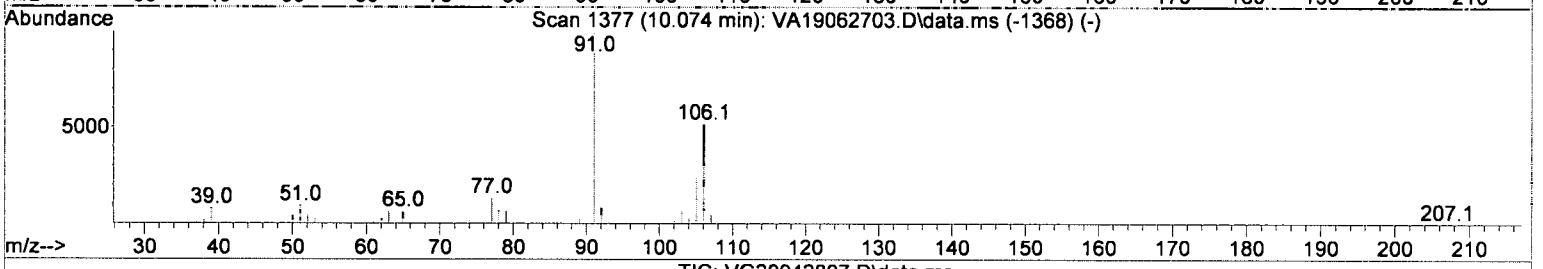
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







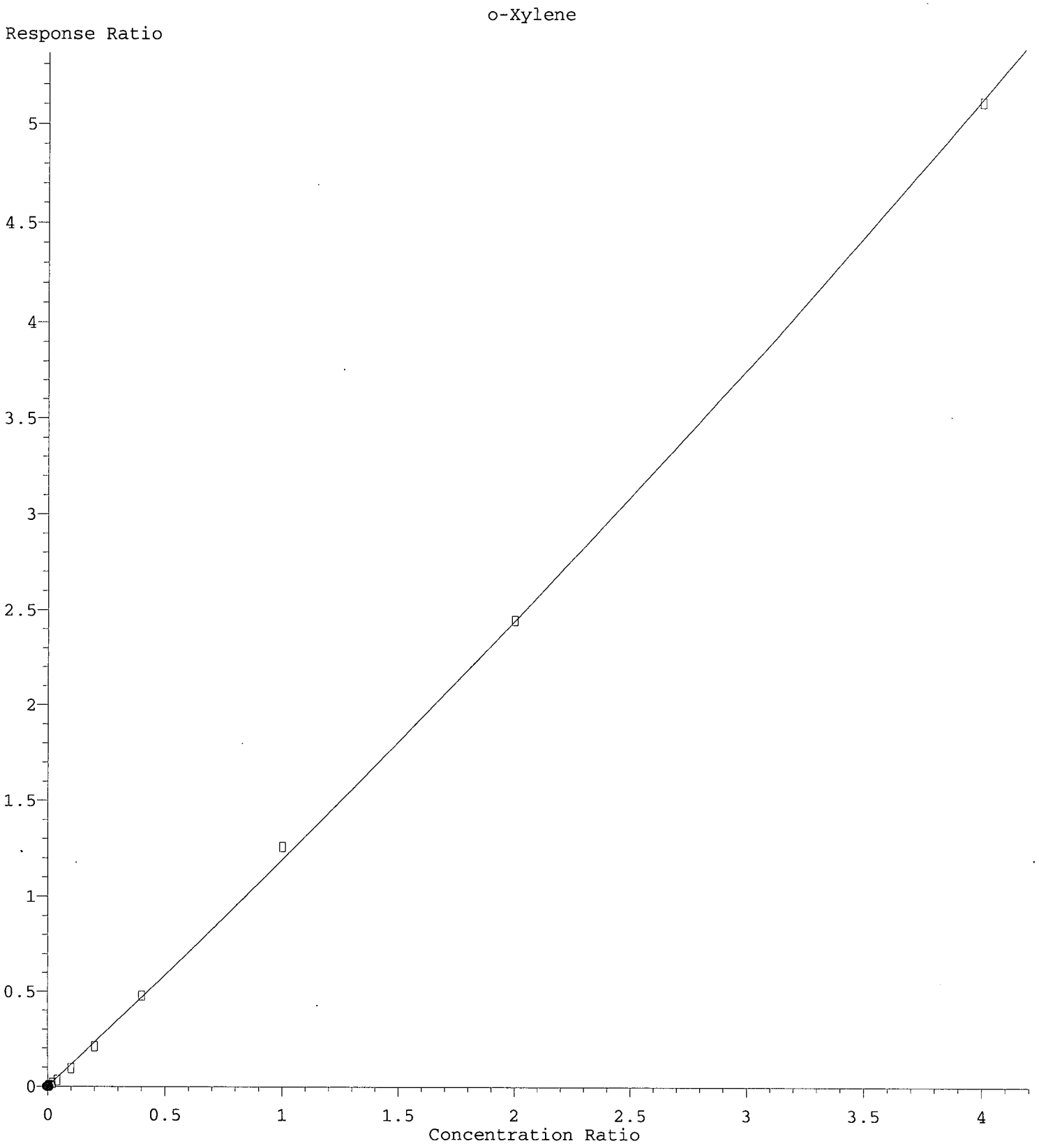
TIC: VG20042807.D\data.ms

(61) m,p-Xylenes (2)

10.574min (-0.024) 0.15 ug/L m

response 79

Ion	Exp%	Act%
91.00	100.00	100.00
106.10	51.80	48.95
51.00	9.80	18.95
0.00	0.00	0.00



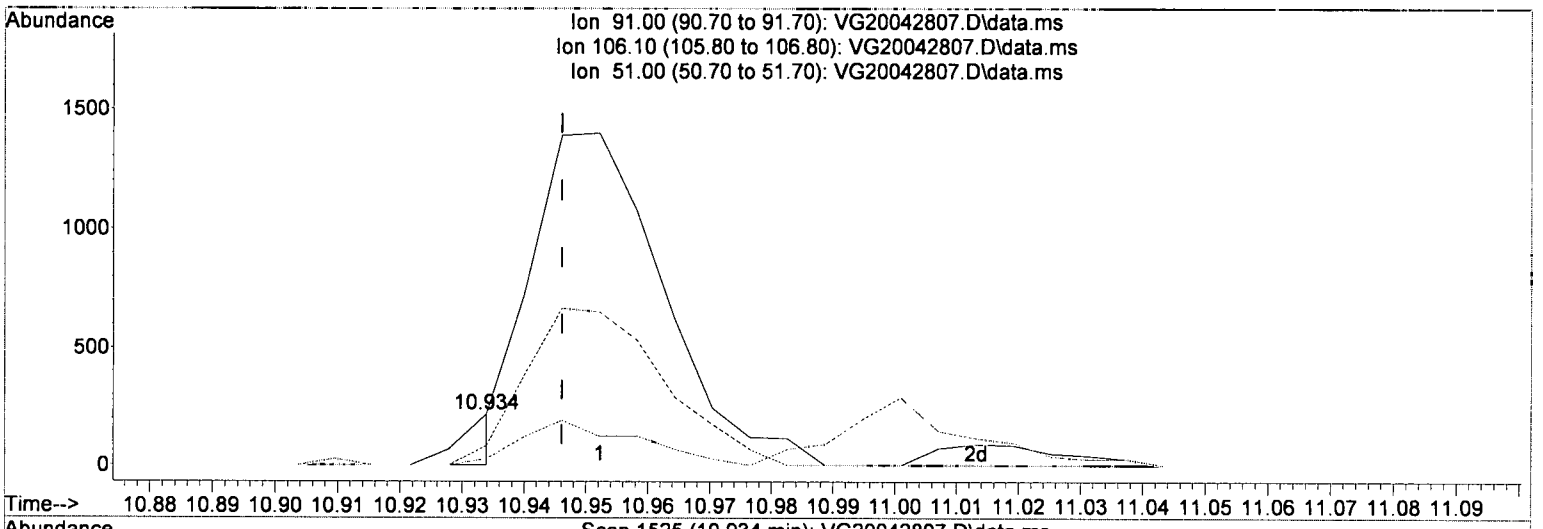
Intercept < MDL
4/30/2024

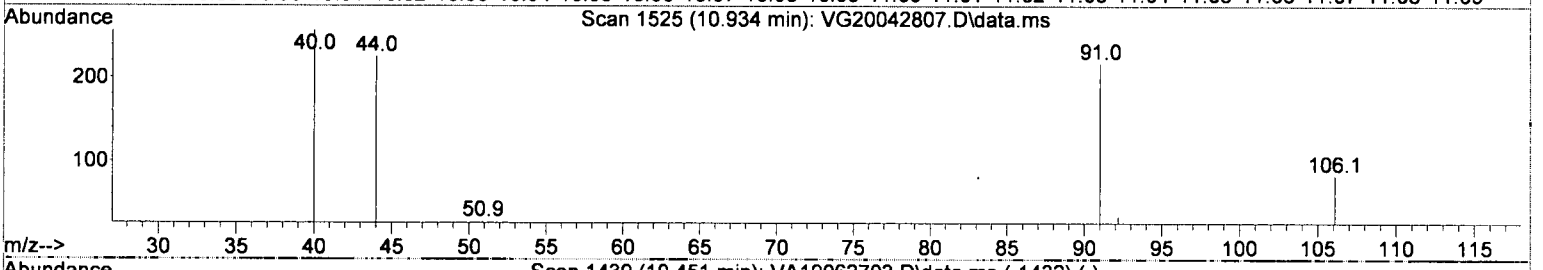
R = 2.81e-002 A*A + 1.07e-002 A + 1.59e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:04:43 2020

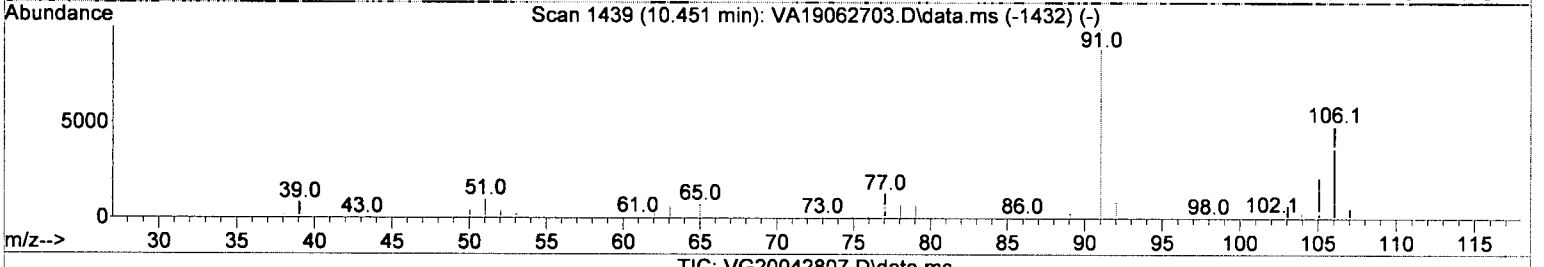
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







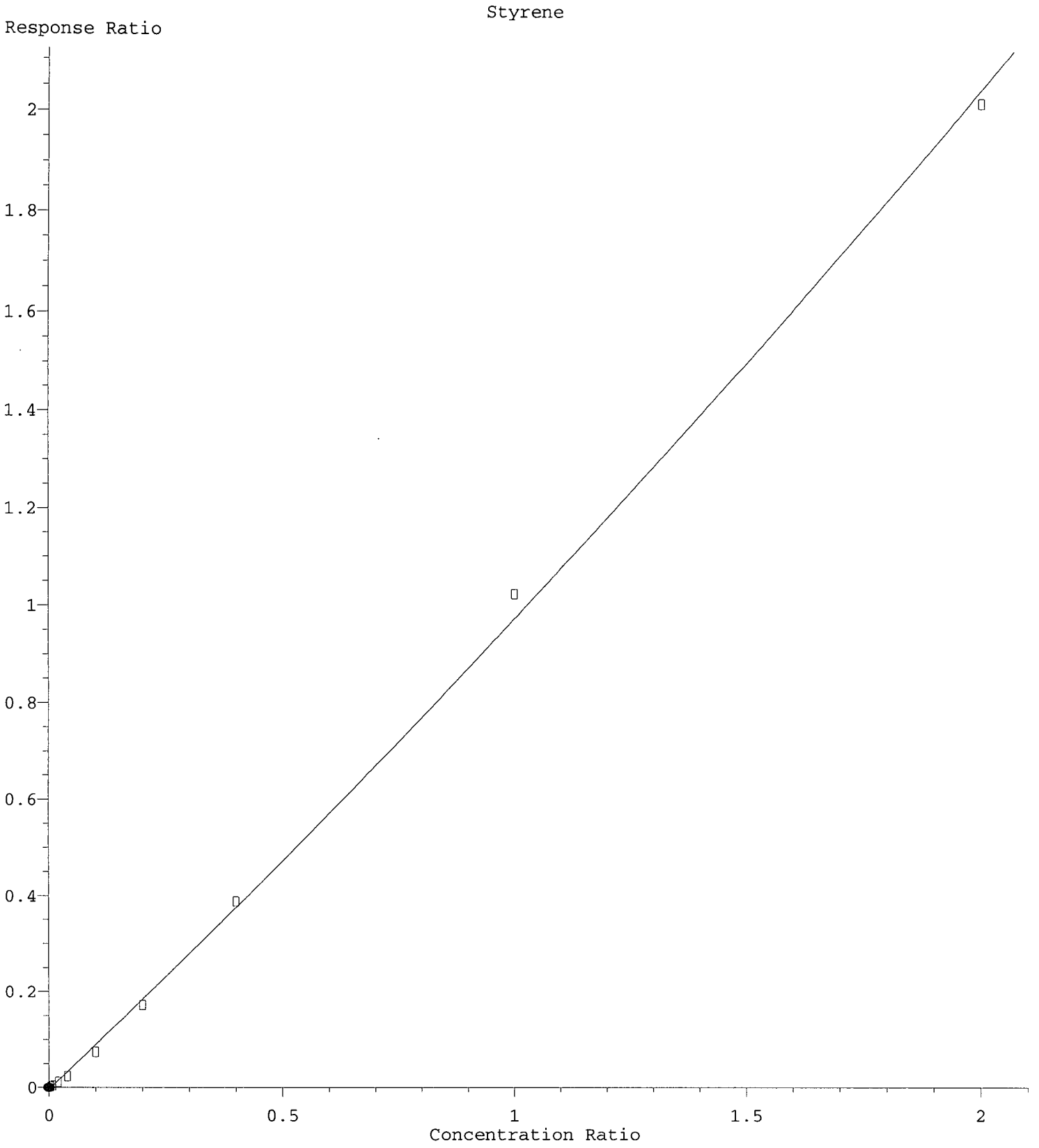
TIC: VG20042807.D\data.ms

(62) o-Xylene

10.934min (-0.012) 0.10 ug/L m

response 105

Ion	Exp%	Act%
91.00	100.00	100.00
106.10	49.80	38.07
51.00	9.70	12.84
0.00	0.00	0.00



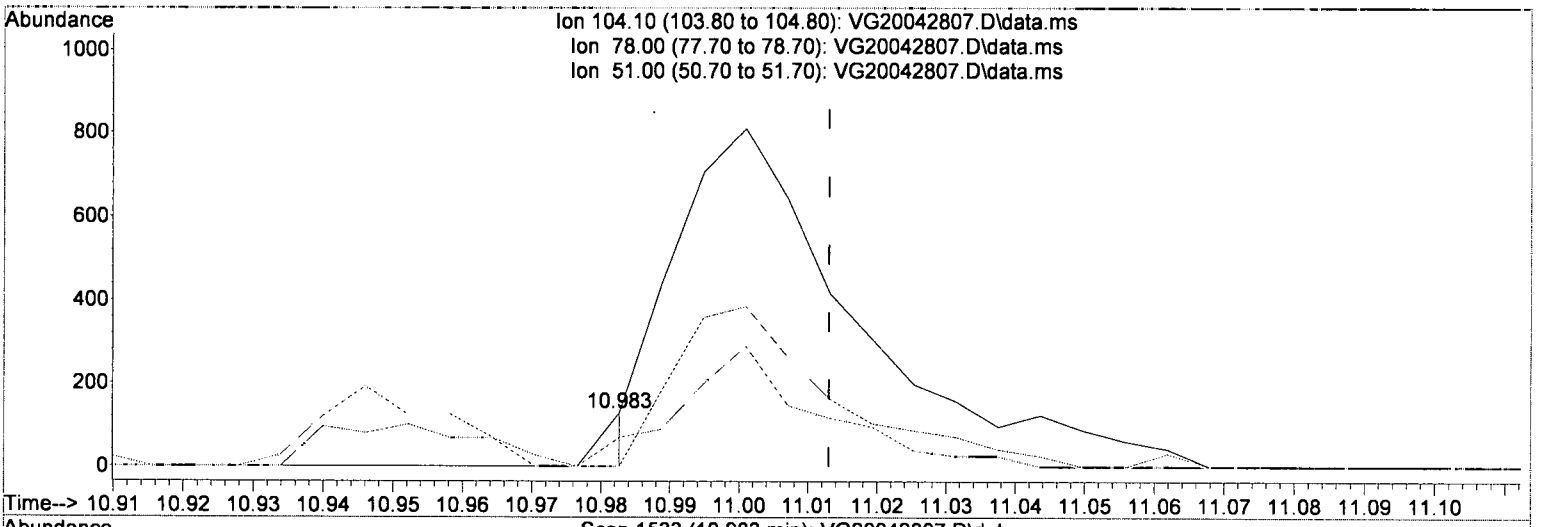
Intercept 2 MDL
4/30/2020

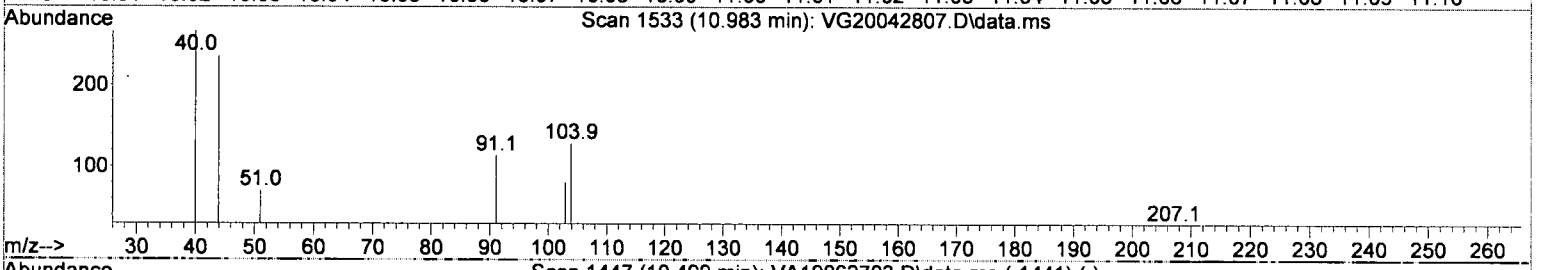
R = 4.90e-002 A*A + 9.724e-001 A + 3.78e-003
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:04:43 2020

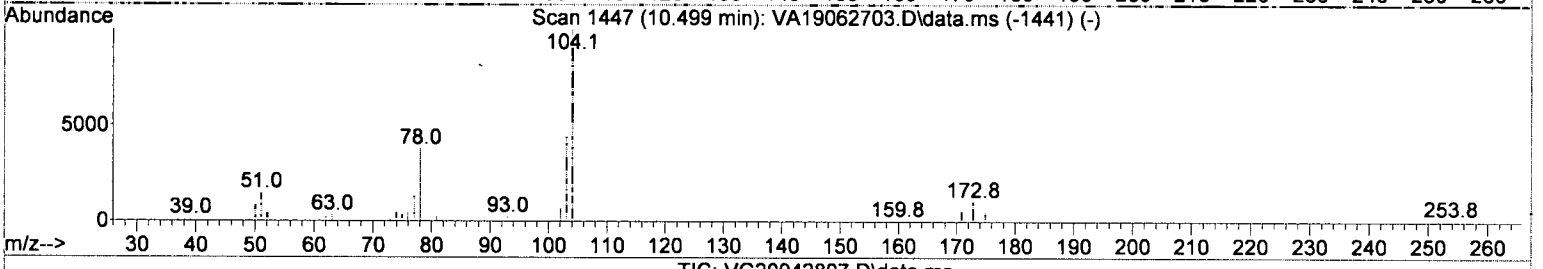
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







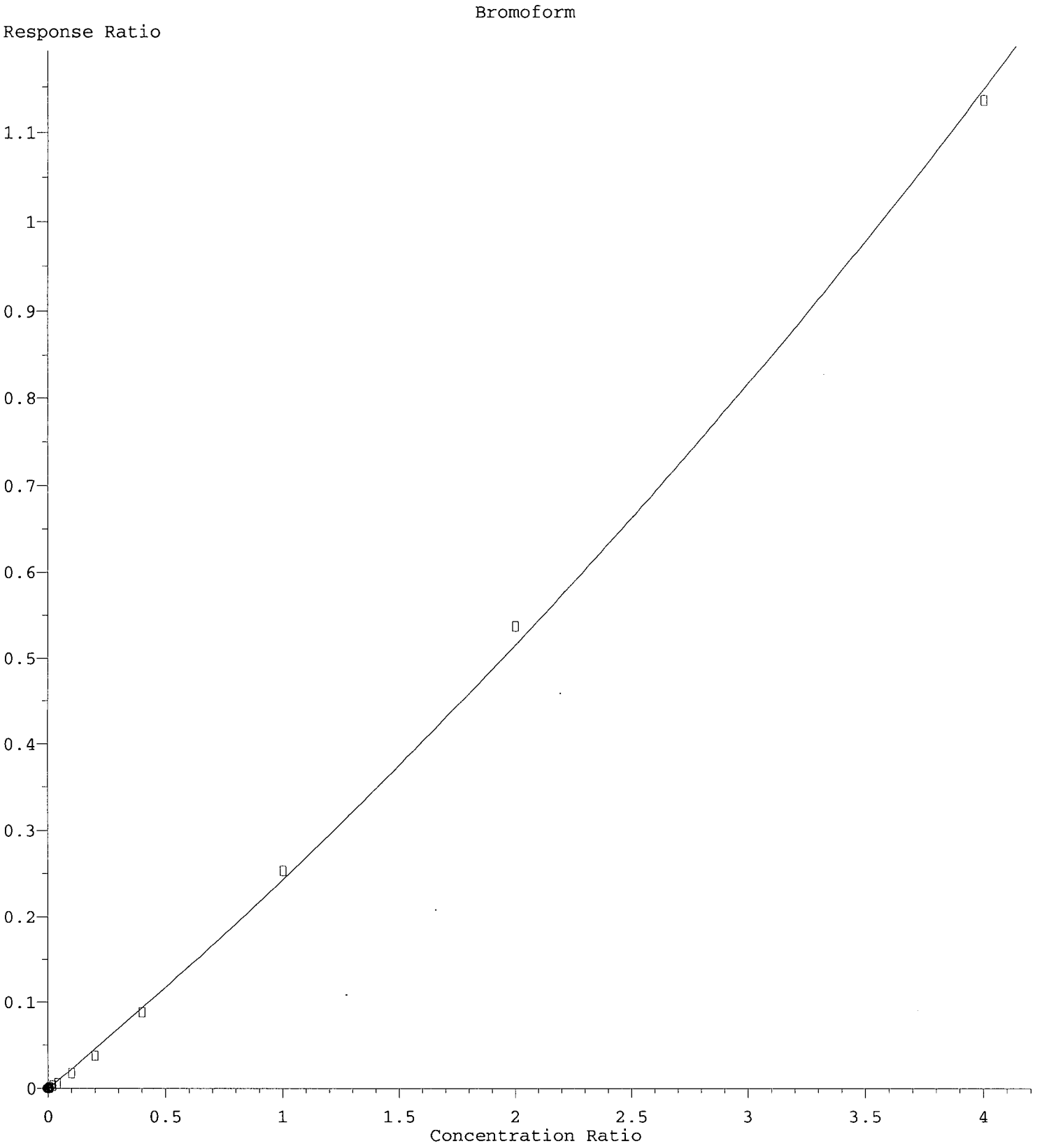
TIC: VG20042807.D\data.ms

(63) Styrene

10.983min (-0.030) 0.21 ug/L m

response 47

Ion	Exp%	Act%
104.10	100.00	100.00
78.00	42.20	0.00#
51.00	24.70	54.26
0.00	0.00	0.00



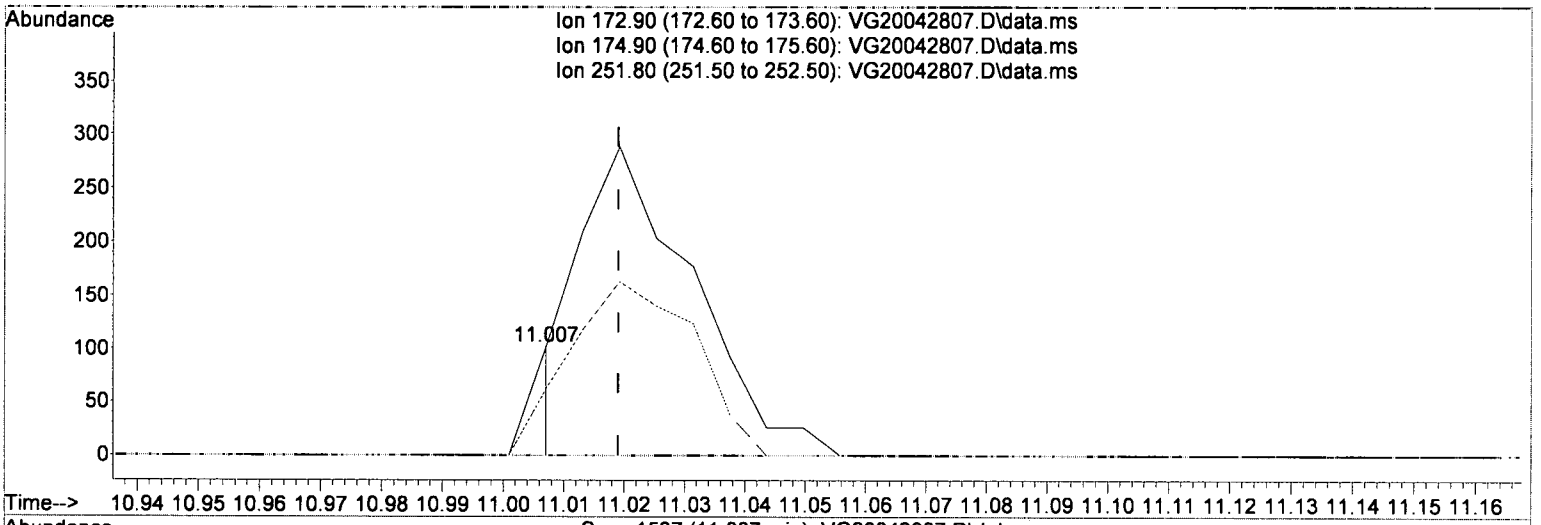
Intercept LMDL
4/30/2020

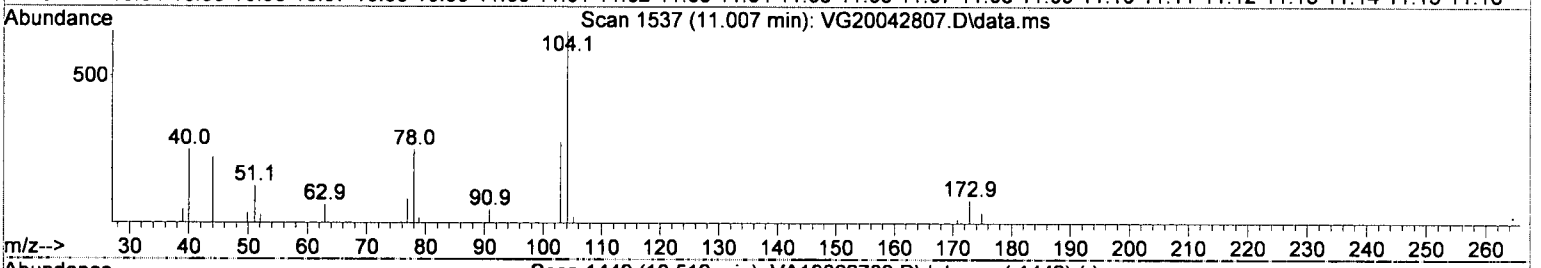
R = 1.44e-002 A*A + 2.729e-001 A + 9.54e-004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:07:21 2020

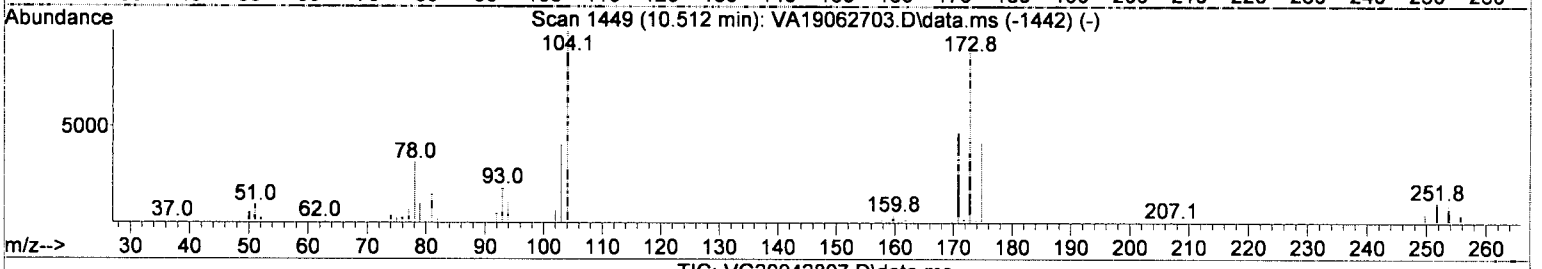
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







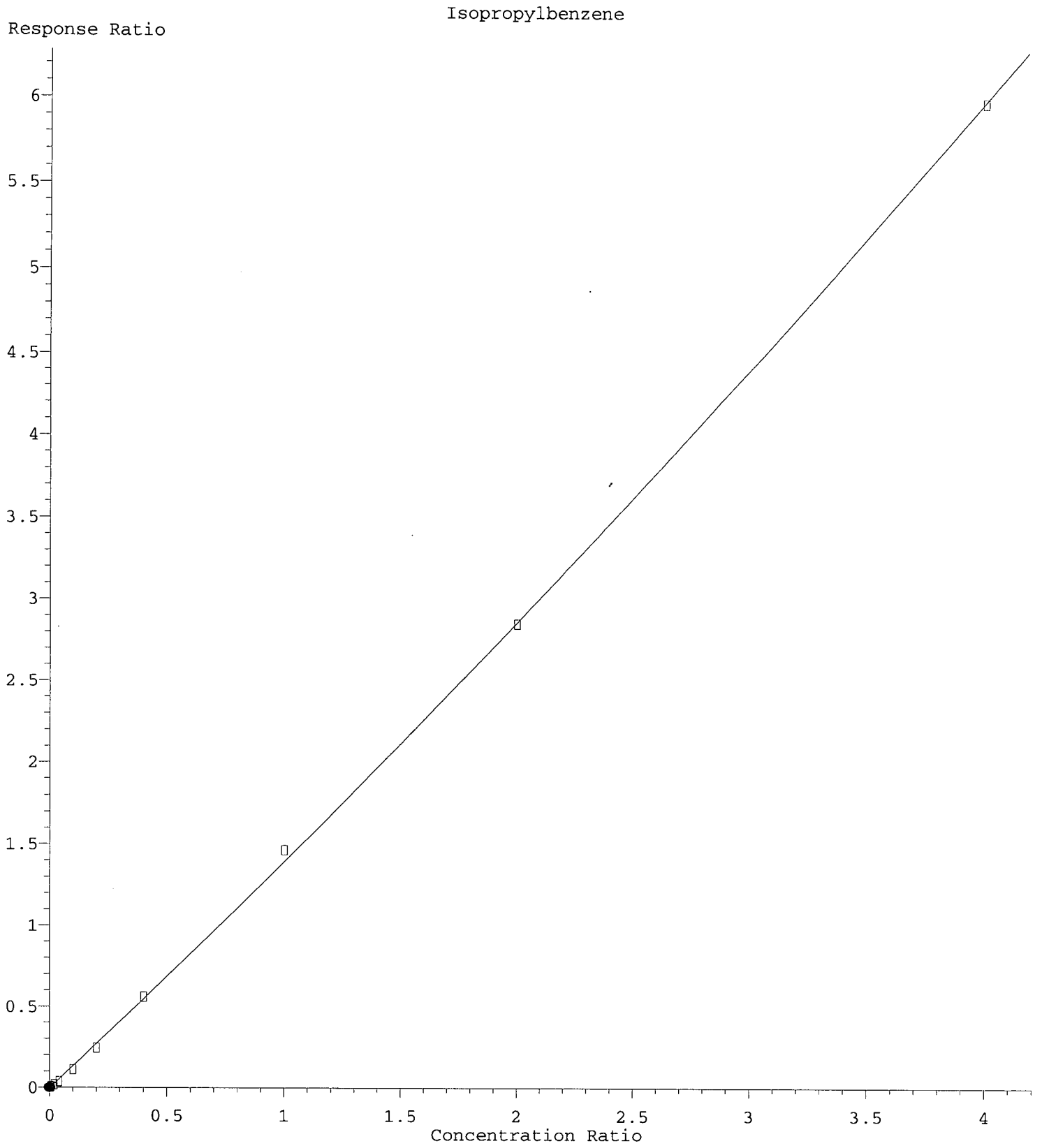
TIC: VG20042807.D\data.ms

(64) Bromoform (P)

11.007min (-0.012) 0.23 ug/L m

response 37

Ion	Exp%	Act%
172.90	100.00	100.00
174.90	48.50	60.78
251.80	13.90	0.00
0.00	0.00	0.00



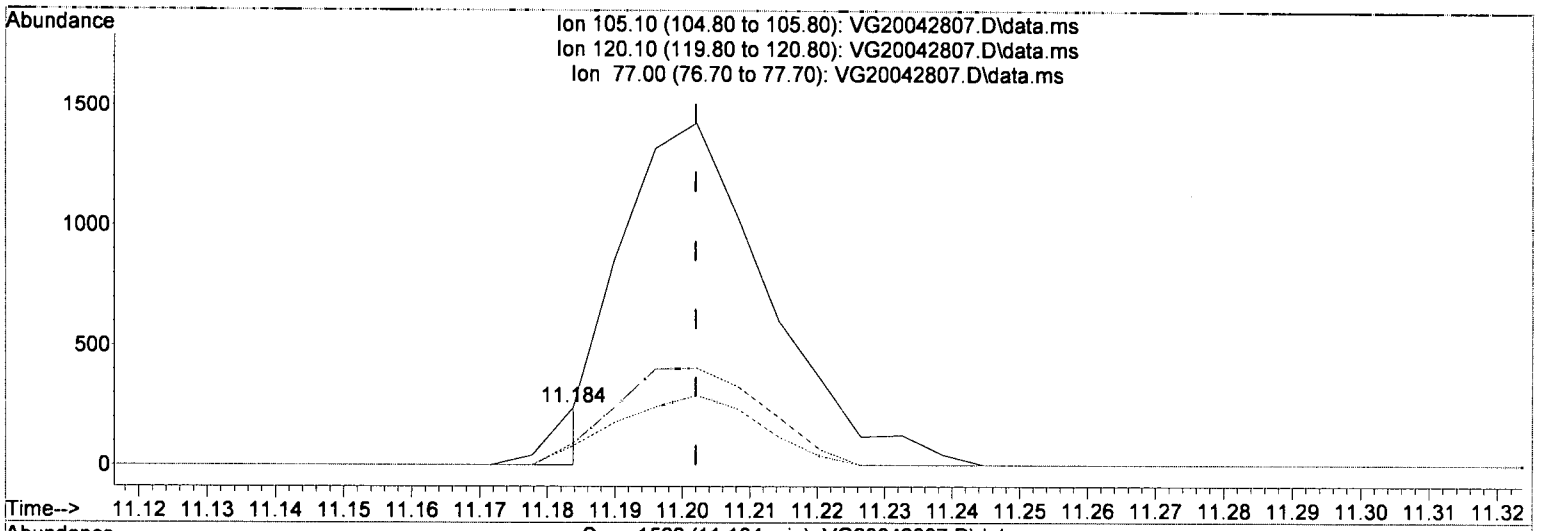
Intercept LMK
4/30/2020

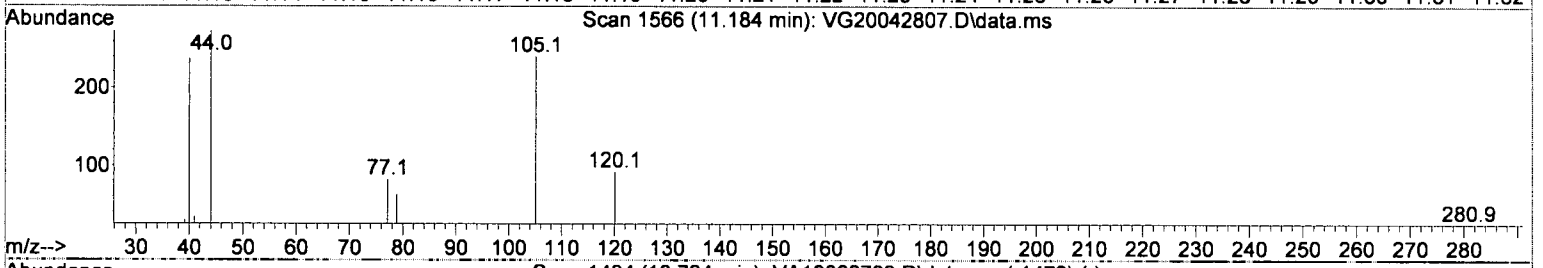
R = 3.40e-002 A*A + 1.07e+000 A + 5.02e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:08:05 2020

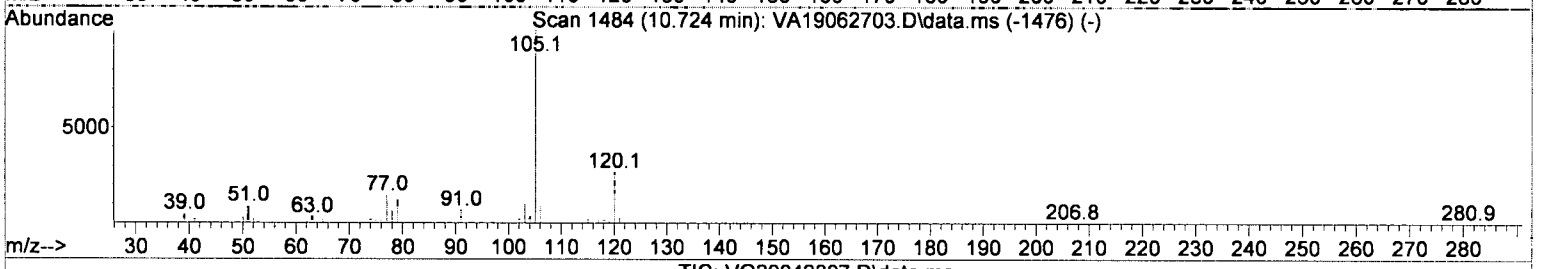
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







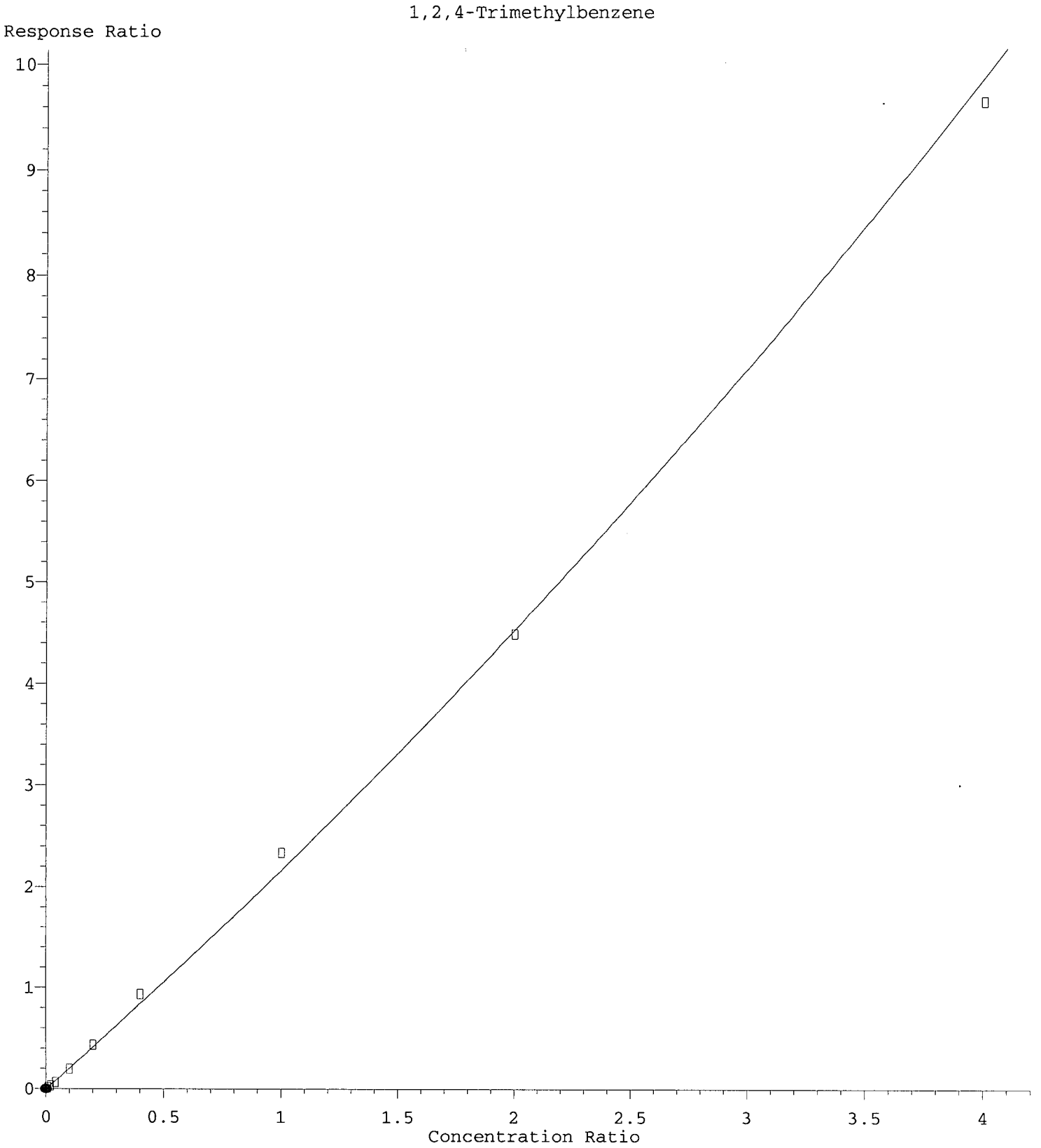
TIC: VG20042807.D\data.ms

(65) Isopropylbenzene

11.184min (-0.018) 0.19 ug/L m

response 103

Ion	Exp%	Act%
105.10	100.00	100.00
120.10	27.80	38.17
77.00	14.50	34.02
0.00	0.00	0.00



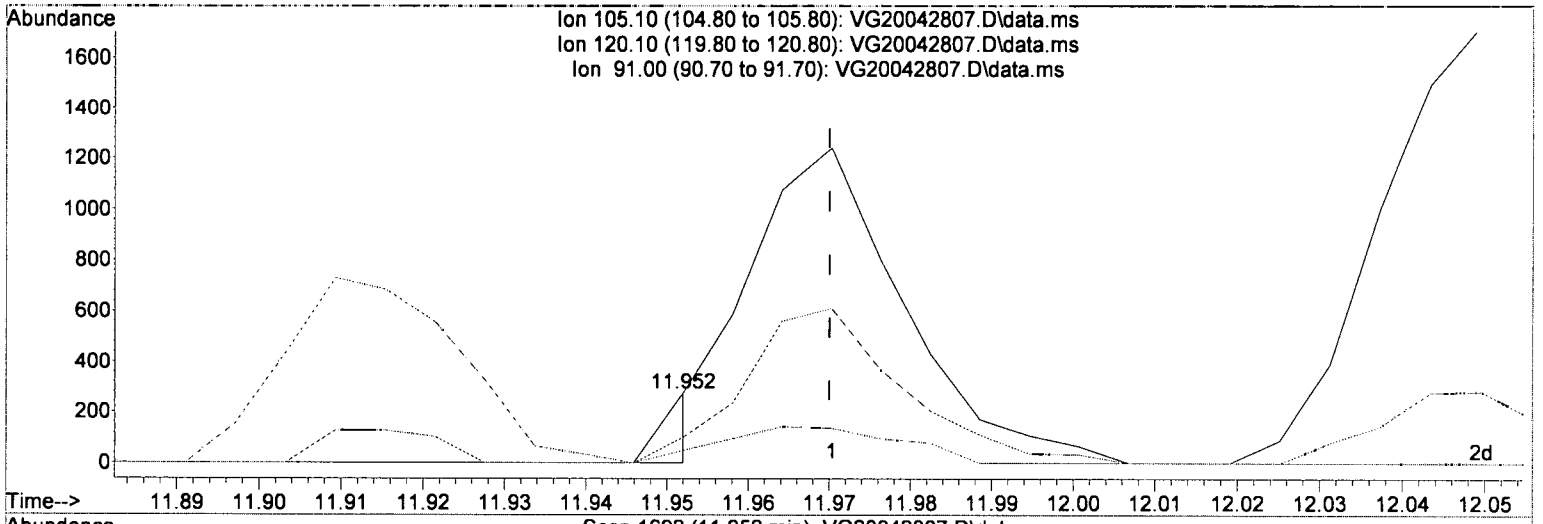
Intercept CMIX
4/30/2021

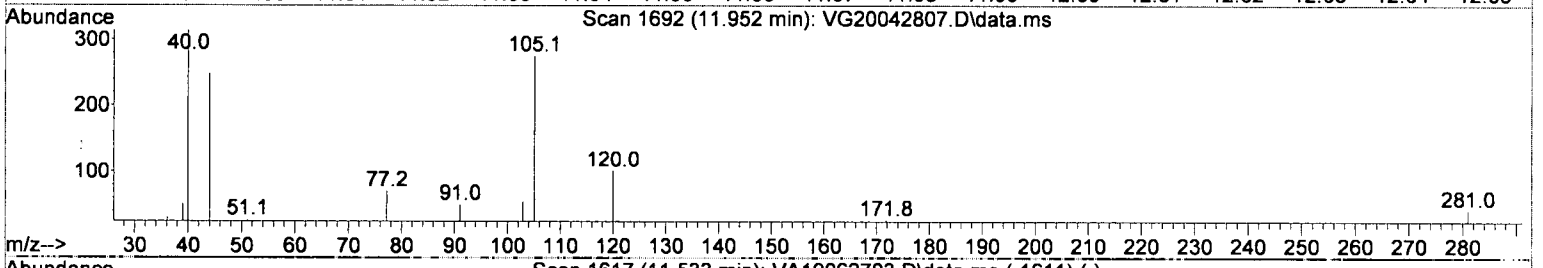
R = 1.01e-001 A*A + 2.07e+000 A + 6.31e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:11:54 2020

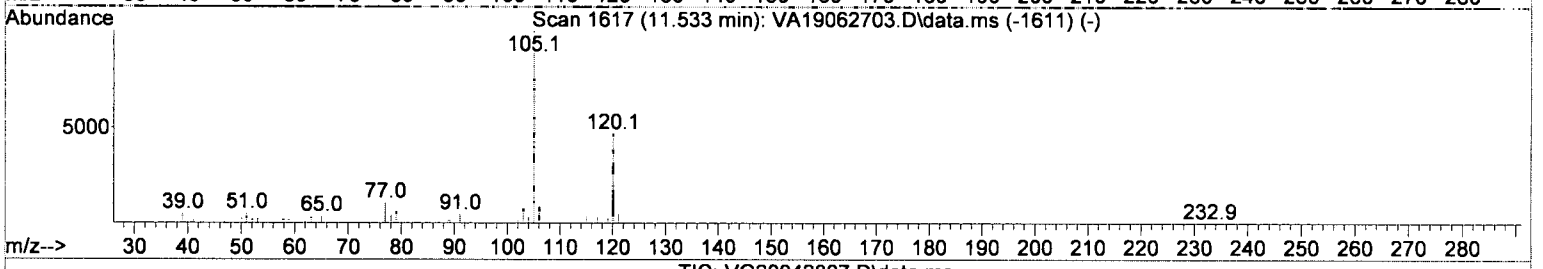
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







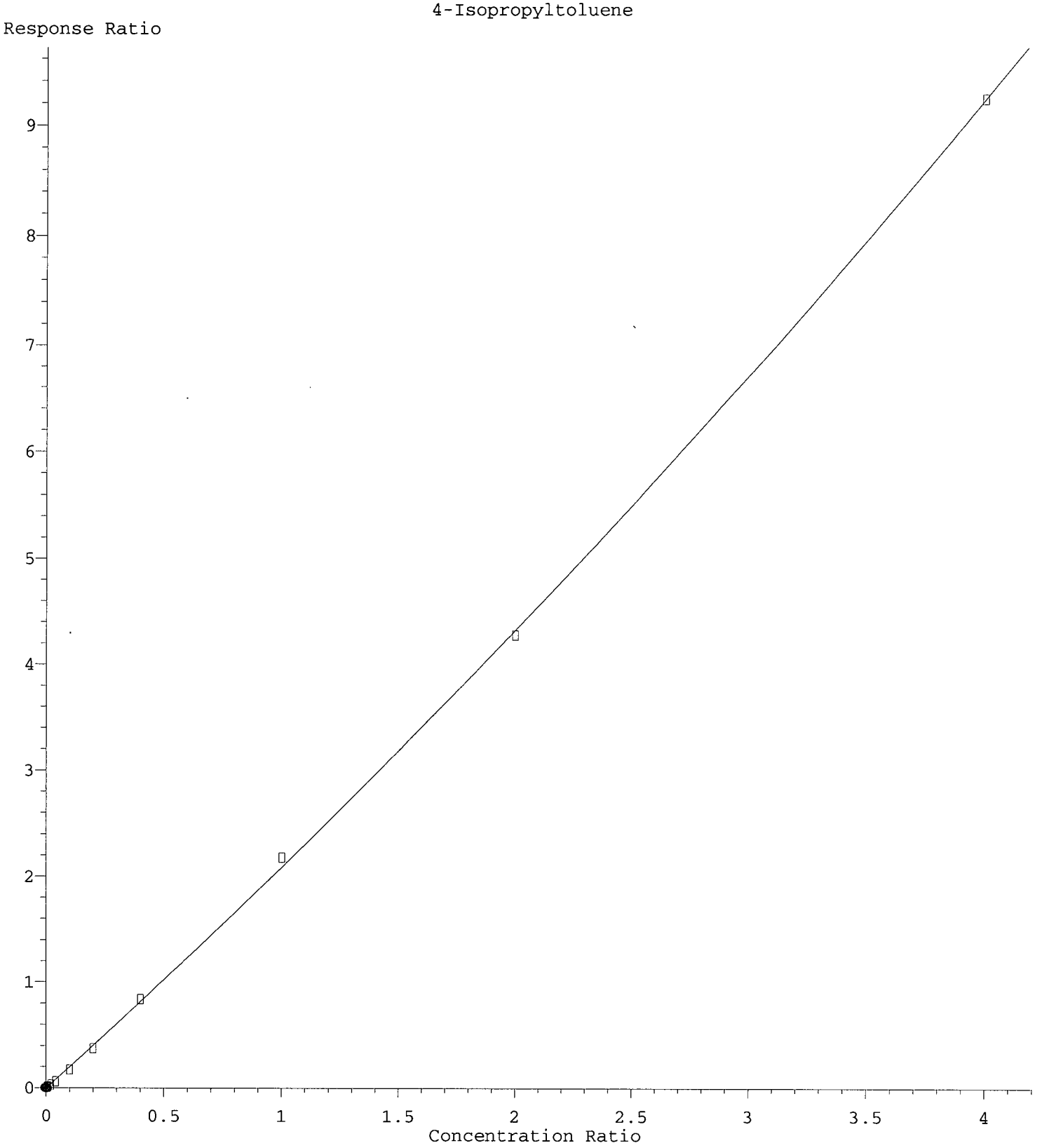
TIC: VG20042807.D\data.ms

(77) 1,2,4-Trimethylbenzene

11.952min (-0.018) 0.17 ug/L m

response 101

Ion	Exp%	Act%
105.10	100.00	100.00
120.10	48.60	36.73
91.00	9.80	18.18
0.00	0.00	0.00



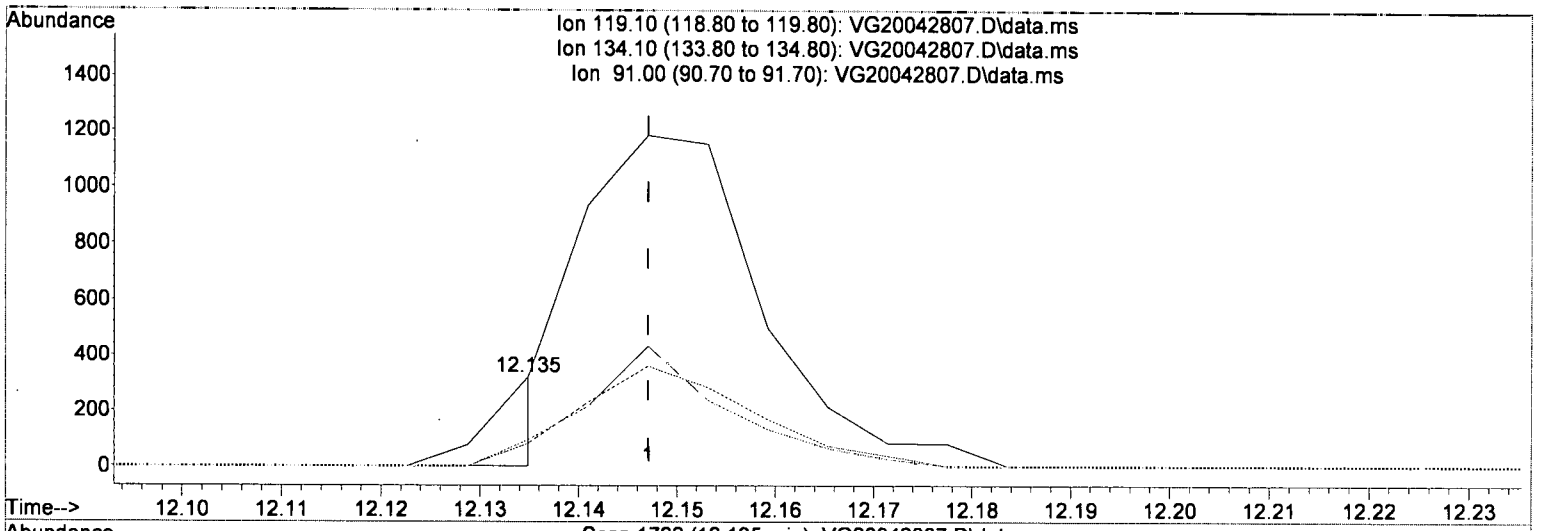
Intercept CMM
4/30/2020

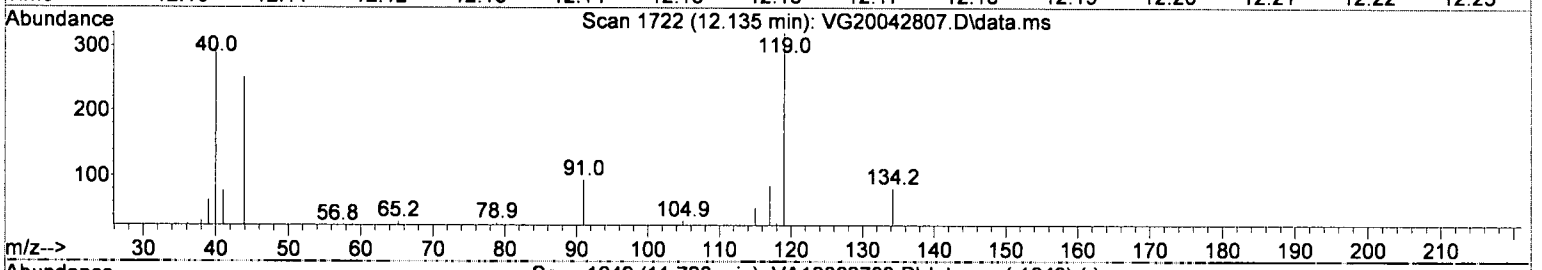
R = 7.24e-002 A*A + 2.02e+000 A + 6.35e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Wed Apr 29 16:15:22 2020

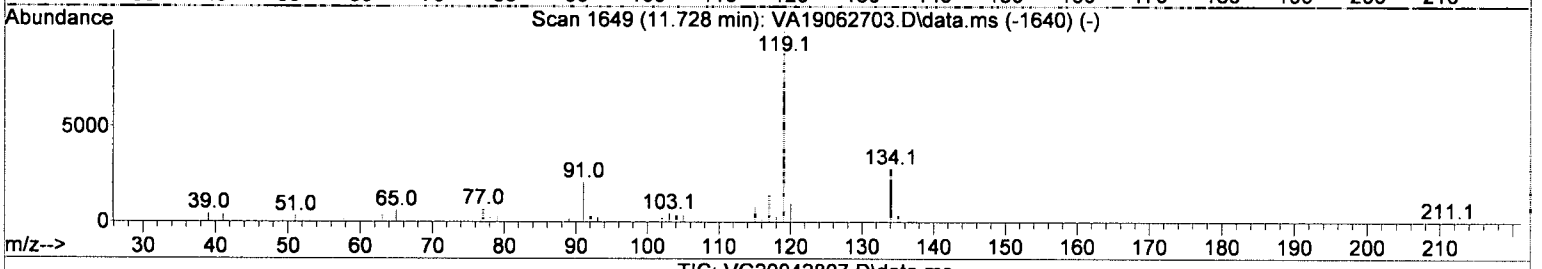
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 30 09:15:46 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







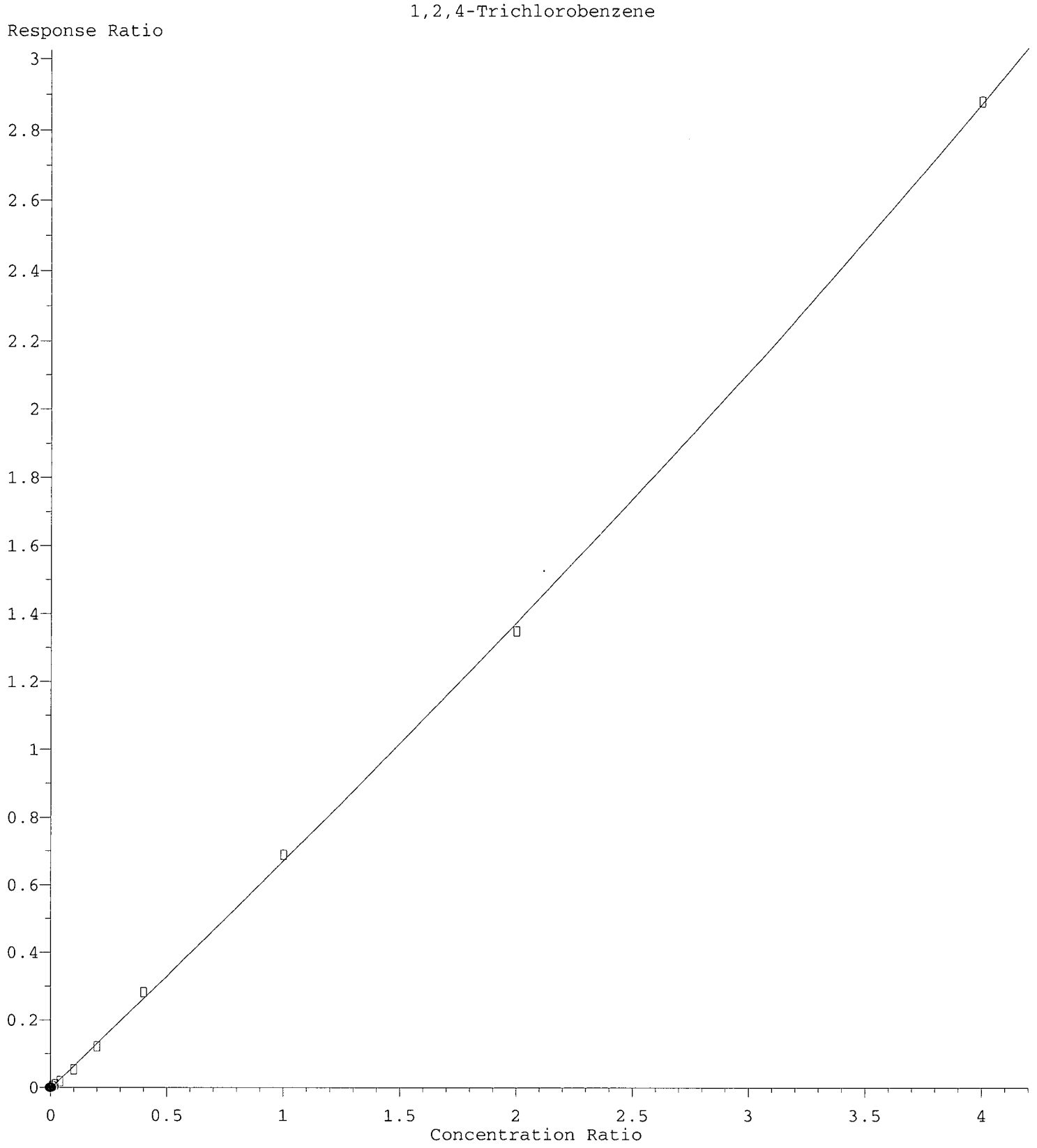
TIC: VG20042807.D\data.ms

(79) 4-Isopropyltoluene

12.135min (-0.012) 0.18 ug/L m

response 145

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	26.60	25.23
91.00	21.70	29.28
0.00	0.00	0.00

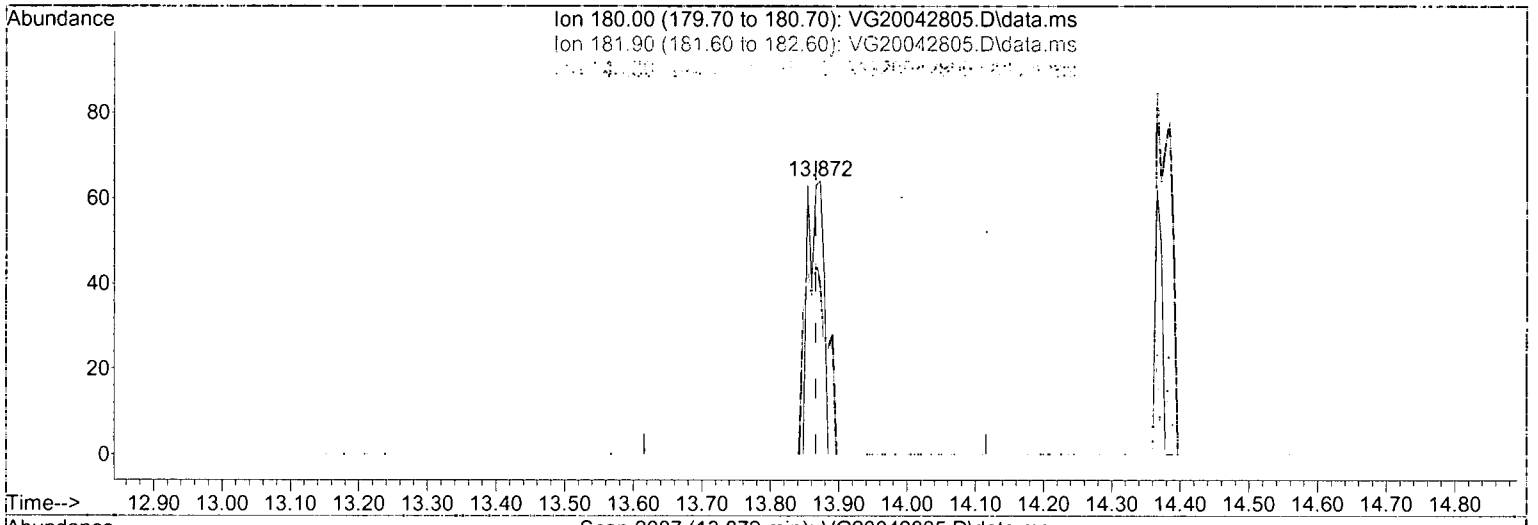


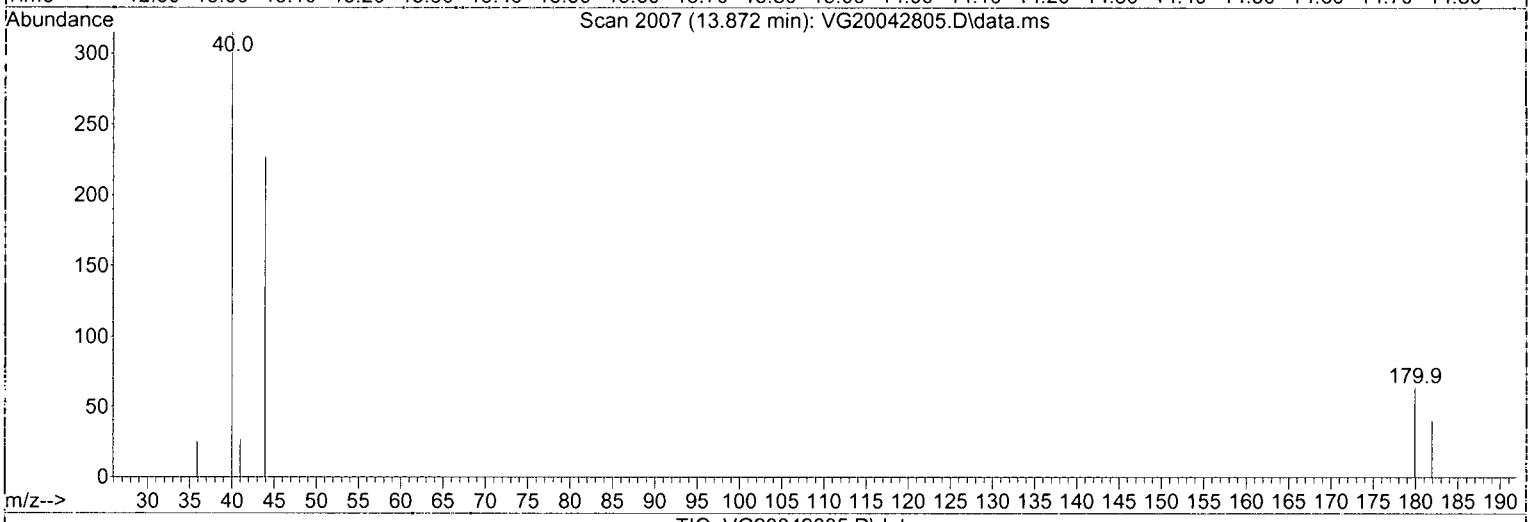
R = 1.532e-002 A*A + 6.580e-001 A - 3.262e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration





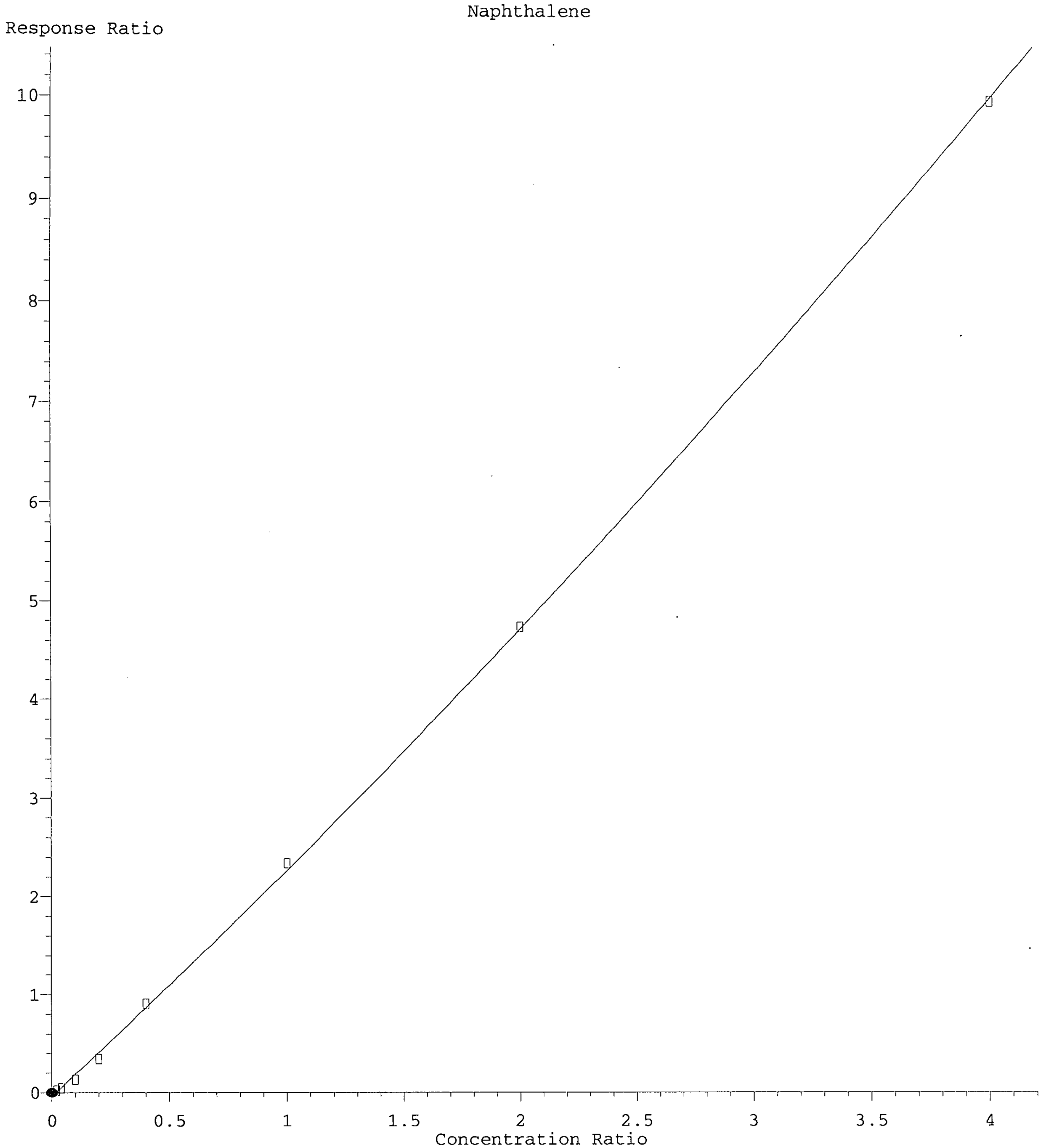
TIC: VG20042805.D\data.ms

(86) 1,2,4-Trichlorobenzene

13.872min (+ 0.006) 0.06 ug/L m

response 99

Ion	Exp%	Act%
180.00	100.00	100.00
181.90	99.10	62.50#
145.00	27.30	0.00
0.00	0.00	0.00



Intercept, CMM
4/30/20

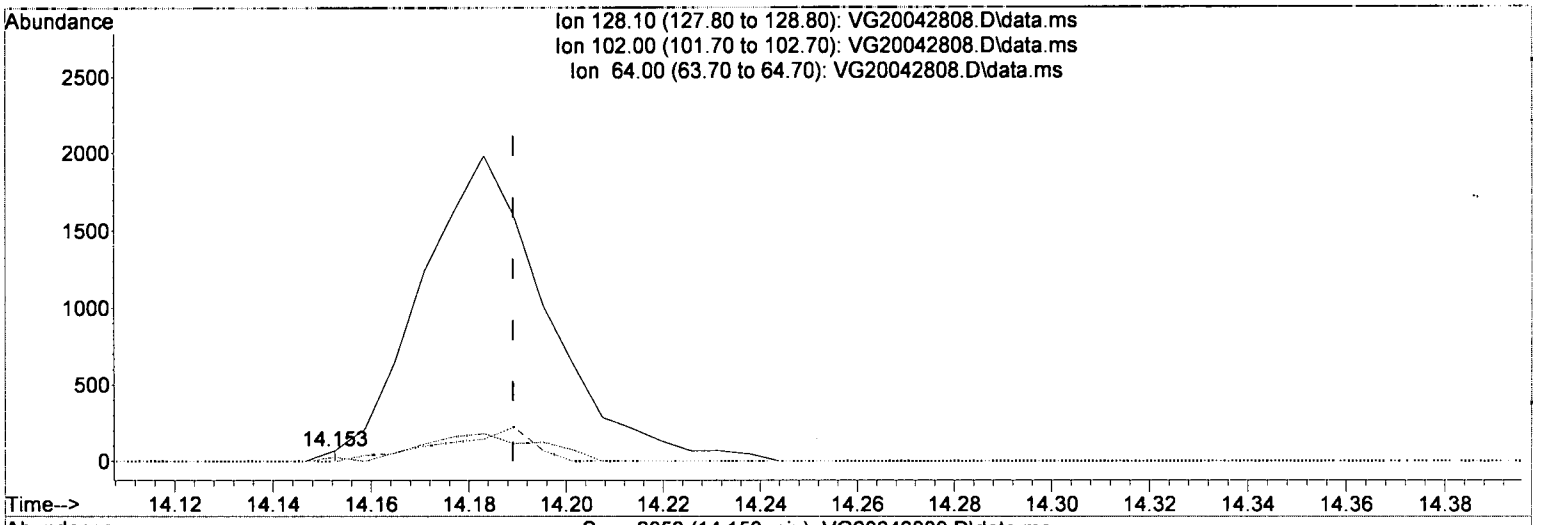
R = 6.90e-002 A*A + [illegible]

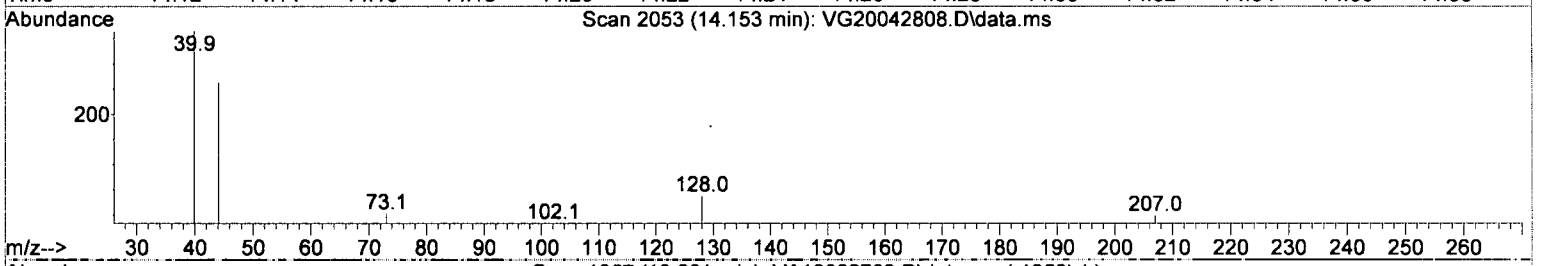
Coef of Det (r^2) = 0.998   Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\VG200429W.M
Calibration Table Last Updated: Thu Apr 30 09:25:52 2020

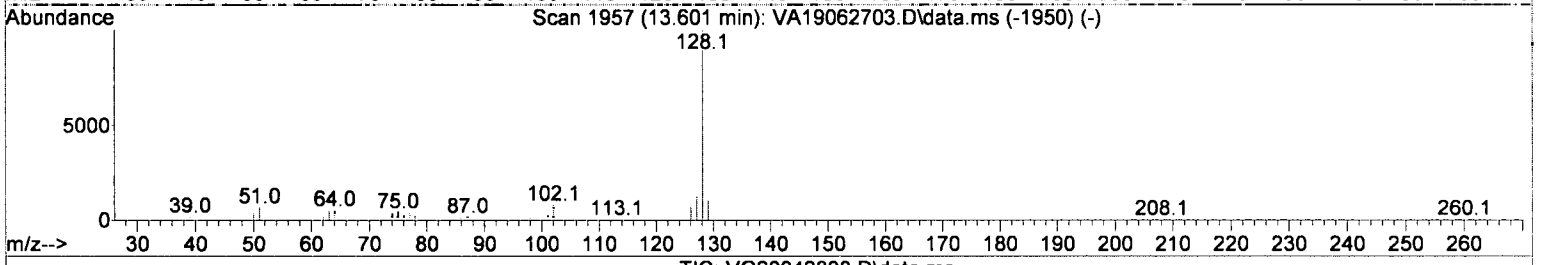
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\REQUANT\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 30 09:26:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration







TIC: VG20042808.D\data.ms

(87) Naphthalene

14.153min (-0.036) 0.90 ug/L m

response 26

Ion	Exp%	Act%
128.10	100.00	100.00
102.00	7.90	38.57#
64.00	6.30	0.00
0.00	0.00	0.00

Response Factor Report VOA-GCMS7

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020
Response Via : Initial Calibration

Calibration Files
1 =VG20042805.D 2 =VG20042806.D 3 =VG20042807.D 4 =VG20042808.D 5 =VG20042809.D 6 =VG20042810.D
7 =VG20042811.D 8 =VG20042812.D 9 =VG20042813.D 10 =VG20042815.D 1a =VG20042817.D

		Compound	1	2	3	4	5	6	7	8	9	10	1a	Avg	%RSD
1)	I	Pentafluorobenzene...	----------				ISTD								
2)		Dichlorodifluo...	1.339	1.047	1.088	0.996	0.982	0.970	0.941	0.983	1.078	0.975	1.032	1.039	10.57
3)	P	Chloromethane	—	1.563	1.464	1.222	1.188	1.162	1.126	1.171	1.210	1.091	1.126	1.232	12.60
4)	C	Vinyl Chloride	1.387	1.293	1.211	1.211	1.168	1.165	1.155	1.202	1.302	1.188	1.263	1.231	5.86
5)		Bromomethane	—					0.876	0.817	0.762	0.706	0.624	0.630	0.736	13.77
6)		Chloroethane	—				0.608	0.583	0.407	0.362	0.361	0.301	0.277	0.414	31.70
7)		Trichlorofluor...	1.550	1.420	1.354	1.290	1.229	1.227	1.159	1.206	1.207	1.058	1.087	1.253	11.51
8)		Ethanol	—		0.029	0.025	0.026	0.024	0.026	0.026	0.026	—		0.026	5.55
9)	C	1,1-Dichloroet...	1.568	1.412	1.393	1.367	1.314	1.317	1.330	1.421	1.410	1.334	1.449	1.392	5.34
10)		Carbon Disulfide	—	1.688	1.691	1.539	1.509	1.605	1.634	1.858	2.089	2.056	—	1.741	12.24
11)		Freon 113	1.009	0.864	0.931	0.885	0.870	0.882	0.838	0.878	0.849	0.784	0.886	0.880	6.38
12)		Iodomethane	—					0.105	0.165	0.266	0.451	0.541	0.693	0.370	61.96
13)		Acrolein	—			0.224	0.203	0.213	0.226	0.248	0.261	0.287	0.287	0.244	13.26
14)		Methylene Chlo...	—					1.397	1.216	1.144	1.066	0.995	1.017	1.139	13.22
15)		Acetone	—				0.629	0.517	0.505	0.513	0.474	0.476	0.479	0.513	10.58
16)		t-1,2-Dichloro...	1.704	1.295	1.298	1.253	1.275	1.284	1.300	1.379	1.390	1.342	1.441	1.360	9.39
17)		n-Hexane	—				0.097	0.120	0.116	0.129	0.140	0.135	0.150	0.127	13.76
18)		Methyl-tert-bu...	—	1.822	1.928	1.900	1.936	2.105	2.242	2.476	2.496	2.513	2.657	2.208	13.99
19)		tert-Butanol (...	—			0.124	0.134	0.140	0.156	0.175	0.179	—		0.151	14.76
20)		Diisopropyl et...	—		2.313	2.422	2.282	2.395	2.567	2.701	2.749	—		2.490	7.44
21)	P	1,1-Dichloroet...	1.938	1.746	1.783	1.798	1.748	1.742	1.761	1.853	1.818	1.731	1.828	1.795	3.44
22)		Acrylonitrile	—			0.485	0.480	0.534	0.574	0.622	0.599	0.617	0.615	0.566	10.40
23)		Vinyl Acetate	—			0.737	0.815	1.022	1.190	1.444	1.951	2.216	2.228	1.450	42.06
24)		Ethyl-tert-but...	—			1.708	1.724	1.812	1.933	2.119	2.247	—		1.924	11.44
25)		c-1,2-Dichloro...	1.348	1.204	1.163	1.212	1.221	1.277	1.319	1.400	1.417	1.375	1.448	1.308	7.48
26)		2,2-Dichloropr...	0.665	0.814	0.723	0.706	0.680	0.721	0.717	0.794	0.815	0.794	0.891	0.756	9.19
27)		Bromochloromet...	1.194	1.045	1.036	0.979	0.962	0.961	0.956	0.977	0.932	0.890	0.890	0.984	8.65
28)	C	Chloroform	2.070	1.686	1.656	1.671	1.674	1.701	1.702	1.746	1.715	1.648	1.739	1.728	6.81
29)		Carbon Tetrach...	—			0.693	0.743	0.821	0.871	0.972	1.022	0.999	—	0.874	14.78
30)		Tetrahydrofuran	—			0.417	0.401	0.429	0.481	0.515	0.530	0.555	0.569	0.487	13.39
31)		1,1,1-Trichlor...	1.550	1.077	1.190	1.139	1.106	1.207	1.197	1.300	1.317	1.262	1.412	1.251	11.16
32)	S	Dibromofluorom...	0.993	1.008	0.998	0.992	0.988	0.989	0.980	0.983	0.987	0.993	1.025	0.994	1.27
33)		1,1-Dichloropr...	1.132	1.098	1.000	1.016	0.981	1.120	1.164	1.303	1.322	1.260	1.394	1.163	12.04
34)		2-Butanone (MEK)	—			0.600	0.631	0.698	0.750	0.828	0.816	0.843	0.844	0.751	13.07
35)		Benzene	4.417	3.806	3.472	3.622	3.628	3.914	3.992	4.253	4.216	4.027	4.301	3.968	7.85
36)		tert-Amyl meth...	—			2.055	1.788	1.794	1.851	1.972	1.976			1.906	5.80
37)		1,2-Dichloroet...	1.511	1.420	1.296	1.308	1.316	1.336	1.340	1.378	1.331	1.286	1.320	1.349	4.86
38)		iso-Butyl Alcohol	—					0.077	0.086	0.097	0.100	0.105	0.102	0.095	11.58
39)	S	1,4-Difluorobe...	3.247	3.305	3.283	3.272	3.226	3.185	3.155	3.150	3.170	3.156	3.237	3.217	1.75
40)		Trichloroethen...	1.400	1.136	1.162	1.039	1.008	1.057	1.023	1.091	1.058	0.995	1.089	1.096	10.32
41)		tert-Amyl ethy...	—			1.149	1.215	1.162	1.272	1.392	1.448	—		1.273	9.68

4/30/2020

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds

42)		Dibromomethane	0.815	0.590	0.659	0.652	0.629	0.641	0.662	0.687	0.683	0.672	0.704	0.672	8.40
43)	C	1,2-Dichloropr...	1.075	1.013	1.039	1.024	1.040	1.031	1.070	1.112	1.118	1.085	1.148	1.069	4.09
44)		Bromodichlorom...	0.907	0.985	0.964	1.002	0.932	1.038	1.066	1.171	1.212	1.217	1.313	1.073	12.52
45)		Chlorobenzene-d5 (I)	----------				ISTD								
46)		2-Chloroethyl ...				0.093	0.100	0.112	0.125	0.157	0.174	0.193	0.211	0.146	30.64
47)		c-1,3-Dichloro...				0.314	0.338	0.366	0.414	0.476	0.518	0.521	0.550	0.437	20.91
48)	S	Toluene-d8 (S)	1.411	1.407	1.386	1.388	1.394	1.370	1.361	1.350	1.335	1.323	1.292	1.365	2.73
49)	C	Toluene	2.040	1.607	1.601	1.507	1.464	1.518	1.513	1.583	1.561	1.473	1.521	1.581	10.10
50)		Tetrachloroeth...	0.303	0.308	0.350	0.314	0.293	0.333	0.320	0.344	0.341	0.326	0.363	0.327	6.62
51)		4-Methyl-2-Pen...					0.416	0.448	0.511	0.563	0.571	0.574	0.539	0.517	12.14
52)		t-1,3-Dichloro...			0.246	0.285	0.279	0.330	0.371	0.430	0.466	0.478	0.505	0.377	25.71
53)		1,1,2-Trichlor...	0.356	0.344	0.347	0.349	0.345	0.360	0.358	0.372	0.369	0.355	0.363	0.356	2.67
54)		Dibromochlorom...		0.203	0.217	0.234	0.236	0.259	0.286	0.321	0.349	0.354	0.379	0.284	22.30
55)		1,3-Dichloropr...	0.619	0.476	0.538	0.556	0.533	0.561	0.583	0.608	0.610	0.593	0.596	0.570	7.53
56)		1,2-Dibromoeth...		0.268	0.296	0.290	0.308	0.327	0.337	0.370	0.374	0.369	0.382	0.332	12.22
57)		2-Hexanone						0.285	0.355	0.407	0.421	0.432	0.402	0.384	14.36
58)	P	Chlorobenzene	1.264	0.977	0.973	0.958	0.936	0.972	0.957	1.005	0.992	0.946	0.980	0.996	9.13
59)	C	Ethylbenzene	1.741	1.390	1.396	1.506	1.471	1.528	1.564	1.665	1.668	1.586	1.656	1.561	7.39
60)		1,1,1,2-Tetrac...		0.286	0.242	0.247	0.247	0.271	0.276	0.304	0.313	0.312	0.331	0.283	11.17
61)		m,p-Xylenes (2)	0.942	0.900	0.840	0.912	0.916	1.048	1.124	1.230	1.256	1.210	1.250	1.057	15.26
62)		o-Xylene	1.064	0.745	0.755	0.795	0.822	0.947	1.050	1.194	1.258	1.223	1.275	1.012	20.67
63)		Styrene		0.459	0.533	0.570	0.592	0.743	0.857	0.969	1.023	1.010		0.751	29.43
64)	P	Bromoform		0.129	0.142	0.154	0.145	0.173	0.189	0.220	0.253	0.268	0.284	0.196	29.04
65)		Isopropylbenzene		0.824	0.782	0.915	0.930	1.094	1.216	1.397	1.462	1.423	1.495	1.154	24.25
66)	I	1,4-Dichlorobenzen...	----------				ISTD								
67)	S	4-Bromofluorob...	0.833	0.826	0.830	0.824	0.823	0.804	0.799	0.781	0.768	0.755	0.780	0.802	3.41
68)		Bromobenzene	0.849	0.807	0.830	0.850	0.775	0.806	0.790	0.833	0.819	0.792	0.864	0.819	3.46
69)		n-Propylbenzene	3.750	2.973	3.065	2.921	2.908	3.087	3.242	3.483	3.458	3.317	3.601	3.255	8.90
70)	P	1,1,2,2-Tetrac...	1.204	0.947	0.995	1.019	0.979	0.973	0.984	1.011	1.003	1.016	1.010	1.013	6.61
71)		2-Chlorotoluene	0.737	0.617	0.618	0.615	0.629	0.655	0.677	0.722	0.726	0.702	0.769	0.679	8.18
72)		1,3,5-Trimethy...				1.616	1.713	1.994	2.179	2.366	2.358	2.283	2.466	2.122	14.93
73)		1,2,3-Trichlor...		0.311	0.311	0.352	0.323	0.319	0.326	0.331	0.312	0.303	0.301	0.319	4.72
74)		t-1,4-Dichloro...							0.090	0.105	0.112	0.119	0.124	0.110	12.02
75)		4-Chlorotoluene	2.149	1.820	1.738	1.768	1.821	1.943	2.075	2.214	2.179	2.096	2.224	2.002	9.41
76)		tert-Butylbenzene		1.001	0.905	0.944	0.984	1.044	1.107	1.206	1.220	1.187	1.295	1.089	12.18
77)		1,2,4-Trimethy...			1.426	1.530	1.612	1.957	2.162	2.334	2.336	2.246	2.412	2.002	19.22
78)		sec-Butylbenzene				1.964	2.019	2.313	2.466	2.690	2.706	2.632	2.851	2.455	13.40
79)		4-Isopropyltol...		1.302	1.365	1.360	1.467	1.715	1.860	2.099	2.182	2.139	2.309	1.780	21.82
80)		1,3-Dichlorobe...	1.354	1.218	1.195	1.209	1.167	1.293	1.323	1.395	1.398	1.338	1.402	1.299	6.79
81)		1,4-Dichlorobe...	1.775	1.647	1.523	1.473	1.353	1.415	1.403	1.451	1.427	1.363	1.420	1.477	8.67
82)		n-Butylbenzene				1.433	1.451	1.646	1.764	1.932	1.934	1.861	1.969	1.749	12.38
83)		1,2-Dichlorobe...	1.262	1.040	1.155	1.117	1.184	1.244	1.273	1.354	1.352	1.284	1.315	1.234	8.10
84)		1,2-Dibromo-3-...						0.166	0.173	0.197	0.209	0.215	0.224	0.198	11.85
85)		Hexachlorobuta...			0.152	0.142	0.147	0.159	0.155	0.164	0.150	0.141	0.155	0.152	4.94
86)		1,2,4-Trichlor...			0.455	0.476	0.465	0.534	0.607	0.706	0.689	0.675	0.720	0.592	18.65
87)		Naphthalene				1.072	1.107	1.301	1.710	2.270	2.341	2.366	2.495	1.833	33.09
88)		1,2,3-Trichlor...					0.468	0.538	0.621	0.714	0.663	0.647	0.689	0.620	14.09

(#) = Out of Range

Compound List Report VOA-GCMS7

Method Path : C:\msdchem\1\methods\
Method File : VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020
Response Via : Initial Calibration

Total Cpnds : 88

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID	
1	I	Pentafluorobenzene (I)	99	6.837	1.000	A	2	A	R	
2		Dichlorodifluoromethane	85	1.716	0.251	A	2	A	R	
3	P	Chloromethane	50	1.978	0.289	A	2	A	R	
4	C	Vinyl Chloride	62	2.100	0.307	A	2	A	R	
5		Bromomethane	96	2.526	0.369	A	2	A	R	
6		Chloroethane	64	2.722	0.398	Q	2	A	R	1/a
7		Trichlorofluoromethane	101	2.917	0.427	A	2	A	R	
8		Ethanol	45	3.618	0.529	A	1	A	R	
9	C	1,1-Dichloroethene	61	3.563	0.521	A	2	A	R	
10		Carbon Disulfide	76	3.569	0.522	A	2	A	R	
11		Freon 113	101	3.654	0.534	A	2	A	R	
12		Iodomethane	142	3.727	0.545	Q	2	A	R	1/a
13		Acrolein	56	4.008	0.586	A	2	A	R	
14		Methylene Chloride	84	4.301	0.629	A	2	A	R	
15		Acetone	43	4.392	0.642	A	1	A	R	
16		t-1,2-Dichloroethene	61	4.490	0.657	A	2	A	R	
17		n-Hexane	86	4.587	0.671	A	3	A	R	
18		Methyl-tert-butyl-ether	73	4.636	0.678	A	3	A	R	
19		tert-Butanol (TBA)	59	4.807	0.703	A	1	A	R	
20		Diisopropyl ether (DIPE)	45	5.087	0.744	A	2	A	R	
21	P	1,1-Dichloroethane	63	5.197	0.760	A	2	A	R	
22		Acrylonitrile	53	5.264	0.770	A	2	A	R	
23		Vinyl Acetate	43	5.502	0.805	Q	2	A	R	1/a
24		Ethyl-tert-butyl ether (ETBE)	59	5.489	0.803	A	2	A	R	
25		c-1,2-Dichloroethene	61	5.801	0.848	A	2	A	R	
26		2,2-Dichloropropane	77	5.922	0.866	A	2	A	R	
27		Bromochloromethane	49	6.020	0.881	A	2	A	R	
28	C	Chloroform	83	6.106	0.893	A	2	A	R	
29		Carbon Tetrachloride	117	6.245	0.913	A	2	A	R	
30		Tetrahydrofuran	42	6.282	0.919	A	2	A	R	
31		1,1,1-Trichloroethane	97	6.319	0.924	A	2	A	R	
32	S	Dibromofluoromethane (S)	111	6.307	0.922	A	2	A	R	
33		1,1-Dichloropropene	75	6.465	0.946	A	2	A	R	
34		2-Butanone (MEK)	43	6.452	0.944	A	2	A	R	
35		Benzene	78	6.733	0.985	A	2	A	R	
36		tert-Amyl methyl ether (TAME)	73	6.837	1.000	A	2	A	R	
37		1,2-Dichloroethane (EDC)	62	6.959	1.018	A	2	A	R	
38		iso-Butyl Alcohol	43	7.032	1.029	A	2	A	R	
39	S	1,4-Difluorobenzene (S)	114	7.422	1.086	A	2	A	R	
40		Trichloroethene (TCE)	130	7.392	1.081	A	2	A	R	
41		tert-Amyl ethyl ether (TAEE)	59	7.659	1.120	A	2	A	R	
42		Dibromomethane	93	7.843	1.147	A	2	A	R	
43	C	1,2-Dichloropropane	63	7.977	1.167	A	2	A	R	
44		Bromodichloromethane	83	8.050	1.177	A	2	A	R	
45	I	Chlorobenzene-d5 (I)	117	10.434	1.000	A	2	A	R	
46		2-Chloroethyl Vinyl Ether	63	8.714	0.835	Q	2	A	R	
47		c-1,3-Dichloropropene	75	8.781	0.842	Q	2	A	R	1/a
48	S	Toluene-d8 (S)	98	8.965	0.859	A	2	A	R	
49	C	Toluene	91	9.025	0.865	A	2	A	R	
50		Tetrachloroethene (PCE)	166	9.415	0.902	A	2	A	R	
51		4-Methyl-2-Pentanone (MIBK)	43	9.440	0.905	A	2	A	R	
52		t-1,3-Dichloropropene	75	9.464	0.907	Q	2	A	R	1/a
53		1,1,2-Trichloroethane	97	9.621	0.922	A	2	A	R	
54		Dibromochloromethane	129	9.769	0.936	Q	2	A	R	1/a
55		1,3-Dichloropropane	76	9.861	0.945	A	2	A	R	

56		1,2-Dibromoethane (EDB)	107	9.988	0.957	A	2	A	R
57		2-Hexanone	43	10.220	0.979	A	2	A	R
58	P	Chlorobenzene	112	10.446	1.001	A	2	A	R
59	C	Ethylbenzene	91	10.477	1.004	A	2	A	R
60		1,1,1,2-Tetrachloroethane	131	10.507	1.007	A	2	A	R
61		m,p-Xylenes (2)	91	10.599	1.016	Q	2	A	R
62		o-Xylene	91	10.946	1.049	Q	2	A	R
63		Styrene	104	11.013	1.055	Q	2	A	R
64	P	Bromoform	173	11.019	1.056	Q	2	A	R
65		Isopropylbenzene	105	11.202	1.074	Q	2	A	R
66	I	1,4-Dichlorobenzene-d4 (I)	152	12.275	1.000	A	2	A	R
67	S	4-Bromofluorobenzene (S)	174	11.428	0.931	A	2	A	R
68		Bromobenzene	156	11.507	0.937	A	2	A	R
69		n-Propylbenzene	91	11.525	0.939	A	2	A	R
70	P	1,1,2,2-Tetrachloroethane	83	11.598	0.945	A	2	A	R
71		2-Chlorotoluene	126	11.659	0.950	A	2	A	R
72		1,3,5-Trimethylbenzene	105	11.677	0.951	A	2	A	R
73		1,2,3-Trichloropropane	110	11.696	0.953	A	2	A	R
74		t-1,4-Dichloro-2-butene	88	11.720	0.955	A	3	A	R
75		4-Chlorotoluene	91	11.781	0.960	A	2	A	R
76		tert-Butylbenzene	91	11.915	0.971	A	2	A	R
77		1,2,4-Trimethylbenzene	105	11.970	0.975	Q	2	A	R
78		sec-Butylbenzene	105	12.043	0.981	A	2	A	R
79		4-Isopropyltoluene	119	12.147	0.990	Q	2	A	R
80		1,3-Dichlorobenzene	146	12.226	0.996	A	2	A	R
81		1,4-Dichlorobenzene	146	12.281	1.000	A	2	A	R
82		n-Butylbenzene	91	12.476	1.016	A	2	A	R
83		1,2-Dichlorobenzene	146	12.616	1.028	A	2	A	R
84		1,2-Dibromo-3-Chloropropane	157	13.262	1.080	A	2	A	R
85		Hexachlorobutadiene	223	13.811	1.125	A	3	A	R
86		1,2,4-Trichlorobenzene	180	13.872	1.130	Q	2	A	R
87		Naphthalene	128	14.189	1.156	Q	2	A	R
88		1,2,3-Trichlorobenzene	180	14.372	1.171	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

VG200429W.M Thu Apr 30 09:39:18 2020

Injection Log

Directory: z:\data\2020-04\0D28059

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	Vg20042801.d	1.	0D28059-IBL1	1X 5mL DI	28 Apr 2020 14:01
2	2	Vg20042802.d	1.	0D28059-IBL2	1X 5mL DI	28 Apr 2020 14:28
3	3	Vg20042803.d	1.	0D28059-TUN1	1X A20D004 BFB ...	28 Apr 2020 14:55
4	4	Vg20042804.d	1.	0D28059-ICB1	1X 5mL DI	28 Apr 2020 15:22
5	5	Vg20042805.d	1.	0D28059-CAL1	1X 5mL 0.1 PPB...	28 Apr 2020 15:49
6	6	Vg20042806.d	1.	0D28059-CAL2	1X 5mL 0.2 PPB...	28 Apr 2020 16:16
7	7	Vg20042807.d	1.	0D28059-CAL3	1X 5mL 0.4 PPB...	28 Apr 2020 16:43
8	8	Vg20042808.d	1.	0D28059-CAL4	1X 5mL 1 PPB ...	28 Apr 2020 17:10
9	9	Vg20042809.d	1.	0D28059-CAL5	1X 5mL 2 PPB ...	28 Apr 2020 17:37
10	10	Vg20042810.d	1.	0D28059-CAL6	1X 5mL 5 PPB ...	28 Apr 2020 18:04
11	11	Vg20042811.d	1.	0D28059-CAL7	1X 5mL 10 PPB ...	28 Apr 2020 18:31
12	12	Vg20042812.d	1.	0D28059-CAL8	1X 5mL 20 PPB ...	28 Apr 2020 18:58
13	13	Vg20042813.d	1.	0D28059-CAL9	1X 5mL 50 PPB ...	28 Apr 2020 19:25
14	14	Vg20042814.d	1.	0D28059-IBL3	1X 5mL DI	28 Apr 2020 19:52
15	15	Vg20042815.d	1.	0D28059CALA	1X 5mL 100 PPB...	28 Apr 2020 20:19
16	16	Vg20042816.d	1.	0D28059-IBL4	1X 5mL DI	28 Apr 2020 20:47
17	17	Vg20042817.d	1.	0D28059-CALB	1X 5mL 200 PPB...	28 Apr 2020 21:14
18	18	Vg20042818.d	1.	0D28059-IBL5	1X 5mL DI	28 Apr 2020 21:41
19	19	Vg20042819.d	1.	0D28059-IBL6	1X 5mL DI	28 Apr 2020 22:08
20	20	Vg20042820.d	1.	0D28059-ICV1	1X 5mL 20-40PP...	28 Apr 2020 22:35
21	21	Vg20042821.d	1.	0D28059-IBL7	1X 5mL DI	28 Apr 2020 23:02
22	22	Vg20042822.d	1.	0D02028-TUN2	1X A19L316 BFB...	28 Apr 2020 23:29
23	23	Vg20042823.d	1.	0D28059-ICB2	1X 5mL DI	28 Apr 2020 23:56
24	24	Vg20042824.d	1.	0D28059RT1	1X 5mL A19J423	29 Apr 2020 00:23
25	25	Vg20042825.d	1.	0D28059-IBL8	1X 5mL DI	29 Apr 2020 00:50
26	26	Vg20042826.d	1.	0D28059-CALC	1X 5mL 50 PPB GX	29 Apr 2020 01:17
27	27	Vg20042827.d	1.	0D28059-CALD	1X 5mL 100 PP...	29 Apr 2020 01:44
28	28	Vg20042828.d	1.	0D28059-CALE	1X 5mL 250 PP...	29 Apr 2020 02:11
29	29	Vg20042829.d	1.	0D28059-CALF	1X 5mL 500 PP...	29 Apr 2020 02:38
30	30	Vg20042830.d	1.	0D28059-CALG	1X 5mL 1000 P...	29 Apr 2020 03:05
31	31	Vg20042831.d	1.	0D28059-CALH	1X 5mL 2500 P...	29 Apr 2020 03:32
32	32	Vg20042832.d	1.	0D28059-CALI	1X 5mL 5000 P...	29 Apr 2020 03:59
33	33	Vg20042833.d	1.	0D28059-CALJ	1X 5mL 10000 ...	29 Apr 2020 04:27
34	34	Vg20042834.d	1.	0D28059-IBL9	1X 5mL DI	29 Apr 2020 04:54
35	35	Vg20042835.d	1.	0D28059-IBLA	1X 5mL DI	29 Apr 2020 05:21
36	36	Vg20042836.d	1.	0D28059-ICV2	1X 5mL 500PPB ...	29 Apr 2020 05:48
37	37	Vg20042837.d	1.	0D28059-IBLB	1X 5mL DI	29 Apr 2020 06:15

Need to Rerun 250ppb was prepped Wrong

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Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042801.D
Acq On : 28 Apr 2020 2:01 pm
Operator : PS
Sample : 0D28059-IBL1
Misc : 1X 5mL DI
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 09:38:08 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	134037	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	360766	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	149450	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	131607	49.38 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	431555	50.04 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	505629	51.33 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	126880	52.92 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.972	50	161	0.05 ug/L	80
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	2.539	96	37	0.02 ug/L	71
6) Chloroethane	2.734	64	11	Below Cal #	47
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	3.606	45	851	12.26 ug/L	86
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	3.563	76	159	0.03 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	4.295	84	8931	2.92 ug/L	95
15) Acetone	4.386	43	1860	1.35 ug/L	90
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	4.807	59	316	0.78 ug/L #	88
20) Diisopropyl ether (DIPE)	5.112	45	21	0.00 ug/L #	33
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	5.539	43	10	1.13 ug/L	74
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	6.136	49	10	0.00 ug/L #	14
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	6.234	117	10	0.00 ug/L #	13
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	6.459	75	11	0.00 ug/L #	39
34) 2-Butanone (MEK)	6.343	43	10	0.00 ug/L	52
35) Benzene	6.740	78	40	0.00 ug/L	56
36) tert-Amyl methyl ether...	6.831	73	190	0.04 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	8.026	63	11	0.00 ug/L #	40
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	0.000		0	N.D.	
49) Toluene	9.020	91	0	N.D.	

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4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042801.D
Acq On : 28 Apr 2020 2:01 pm
Operator : PS
Sample : 0D28059-IBL1
Misc : 1X 5mL DI
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 09:38:08 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

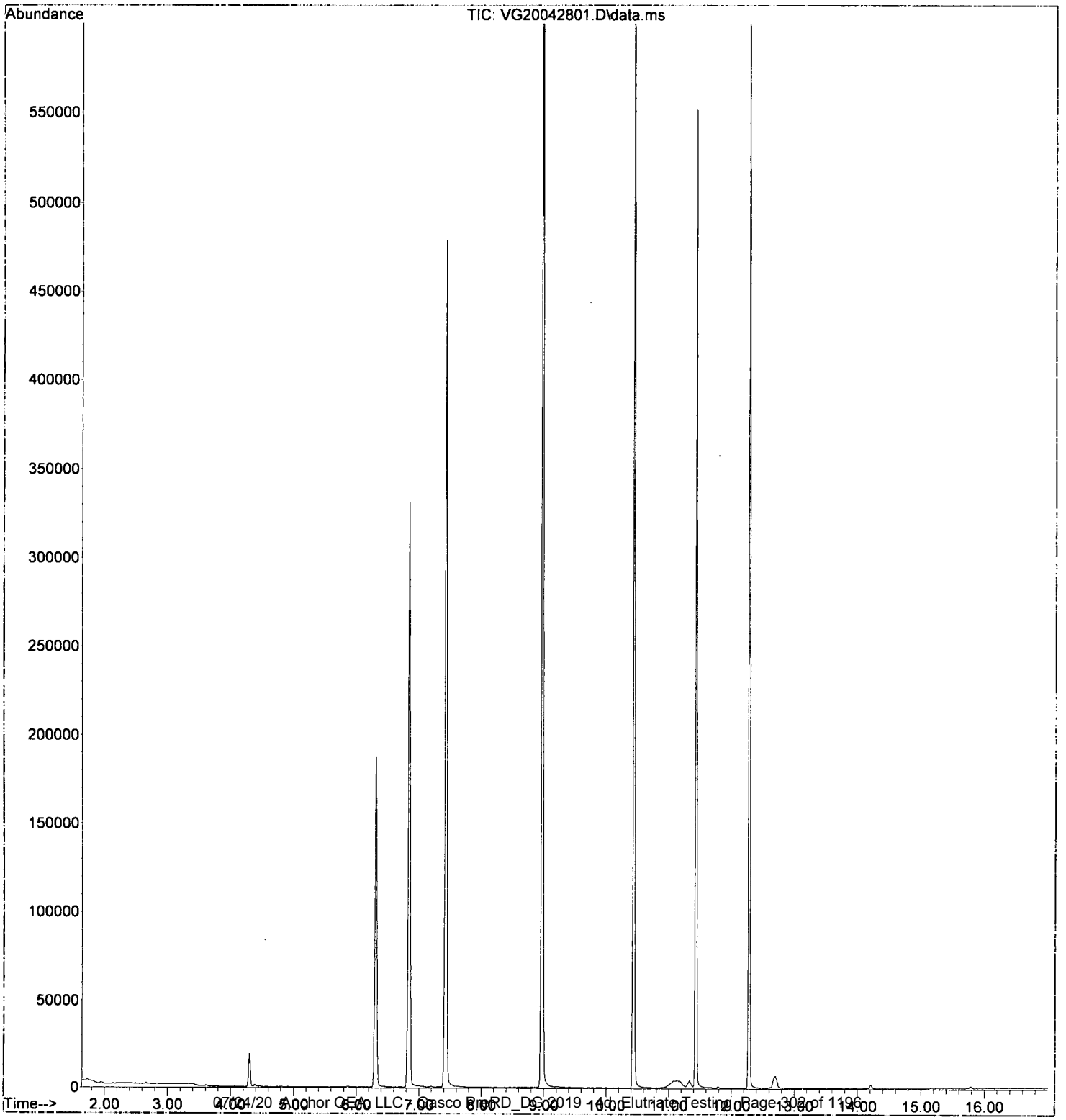
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	0.000		0	N.D.	
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	9.513	75	10	0.35 ug/L #	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	10.245	43	19	0.01 ug/L #	32
58) Chlorobenzene	10.458	112	20	0.00 ug/L #	1
59) Ethylbenzene	10.471	91	55	0.00 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.605	91	37	0.14 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	11.428	156	30	0.01 ug/L #	1
69) n-Propylbenzene	11.428	91	425	0.04 ug/L #	32
70) 1,1,2,2-Tetrachloroethane	11.550	83	10	0.00 ug/L #	24
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	0.000		0	N.D.	
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	12.043	105	10	0.15 ug/L #	36
78) sec-Butylbenzene	12.043	105	10	0.00 ug/L	58
79) 4-Isopropyltoluene	12.147	119	31	0.16 ug/L	51
80) 1,3-Dichlorobenzene	12.287	146	74	0.02 ug/L #	1
81) 1,4-Dichlorobenzene	12.287	146	74	0.02 ug/L #	1
82) n-Butylbenzene	0.000		0	N.D.	
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	14.390	180	19	0.01 ug/L #	12

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042801.D
Acq On : 28 Apr 2020 2:01 pm
Operator : PS
Sample : 0D28059-IBL1
Misc : 1X 5mL DI
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 09:38:08 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042802.D
Acq On : 28 Apr 2020 2:28 pm
Operator : PS
Sample : 0D28059-IBL2
Misc : 1X 5mL DI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 09:38:11 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	132944	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	366584	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	154305	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.306	111	132284	50.05 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	436346	51.01 ug/L	0.00
48) Toluene-d8 (S)	8.964	98	514229	51.38 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.427	174	129158	52.17 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.978	50	193	0.06 ug/L	78
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	2.533	96	35	0.02 ug/L #	64
6) Chloroethane	2.728	64	23	Below Cal #	47
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	3.612	45	128	1.86 ug/L	65
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	3.569	76	72	0.02 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	4.295	84	7762	2.56 ug/L	96
15) Acetone	4.380	43	4628	3.39 ug/L	87
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	4.801	59	277	0.69 ug/L #	59
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	0.000		0	N.D.	
34) 2-Butanone (MEK)	6.374	43	10	0.01 ug/L	52
35) Benzene	6.727	78	30	0.00 ug/L #	41
36) tert-Amyl methyl ether...	6.831	73	219	0.04 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	7.885	63	10	0.00 ug/L #	1
44) Bromodichloromethane	7.940	83	10	0.00 ug/L #	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	8.897	75	10	0.59 ug/L #	33
49) Toluene	9.038	91	10	0.00 ug/L #	31

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042802.D
Acq On : 28 Apr 2020 2:28 pm
Operator : PS
Sample : 0D28059-IBL2
Misc : 1X 5mL DI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 09:38:11 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

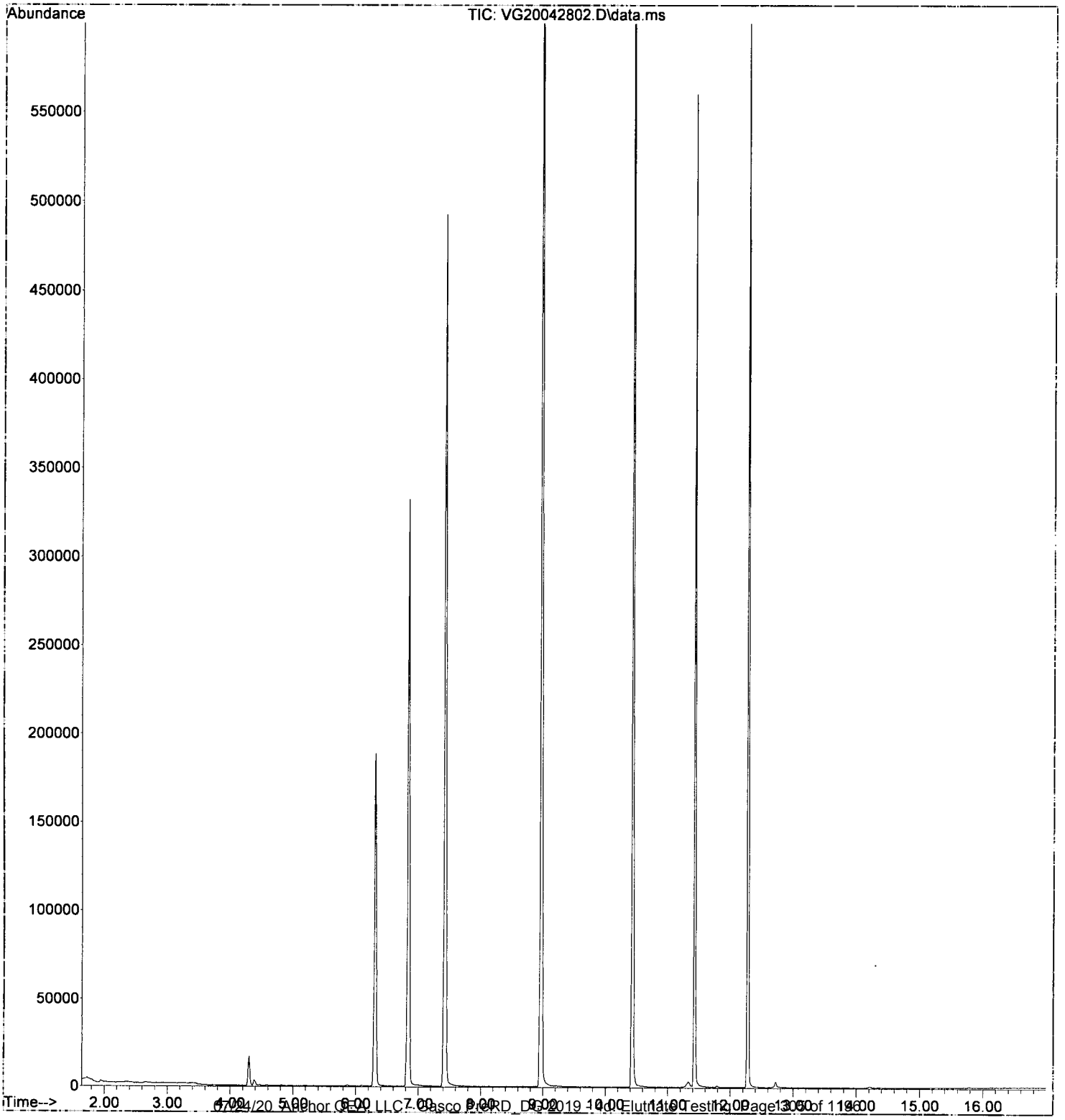
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	23	0.01 ug/L #	24
51) 4-Methyl-2-Pentanone (...	9.391	43	10	0.00 ug/L #	43
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	9.550	97	10	0.00 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	10.452	112	11	0.00 ug/L #	1
59) Ethylbenzene	10.476	91	20	0.00 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.604	91	51	0.15 ug/L #	22
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	11.519	156	10	0.00 ug/L #	1
69) n-Propylbenzene	11.531	91	93	0.01 ug/L #	35
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.781	91	20	0.00 ug/L #	46
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	11.970	105	18	0.16 ug/L #	36
78) sec-Butylbenzene	11.970	105	18	0.00 ug/L	58
79) 4-Isopropyltoluene	12.153	119	29	0.16 ug/L	51
80) 1,3-Dichlorobenzene	12.287	146	68	0.02 ug/L #	1
81) 1,4-Dichlorobenzene	12.287	146	68	0.01 ug/L #	1
82) n-Butylbenzene	0.000		0	N.D.	
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042802.D
Acq On : 28 Apr 2020 2:28 pm
Operator : PS
Sample : 0D28059-IBL2
Misc : 1X 5mL DI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 09:38:11 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

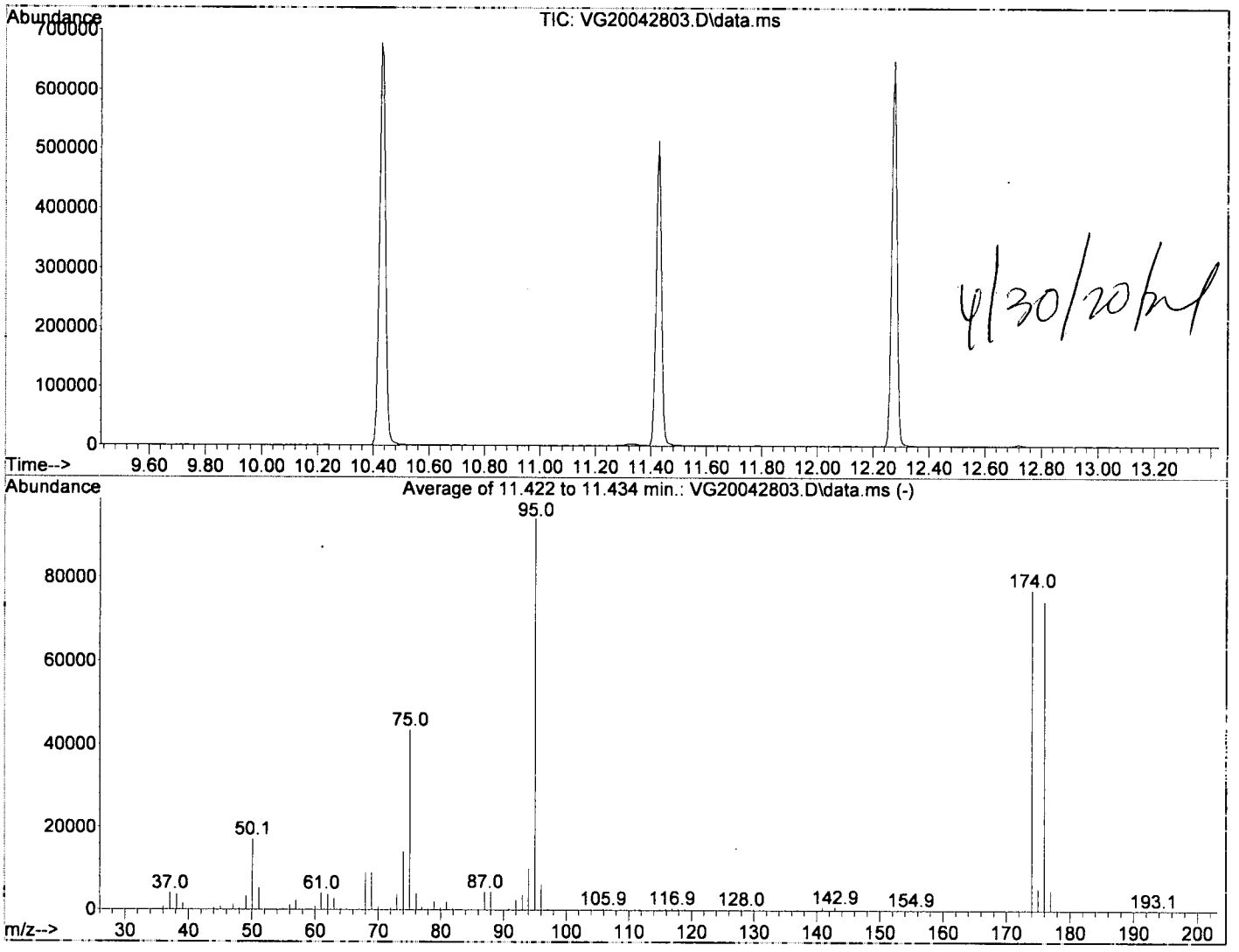


BFB

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\VG200429W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Wed Apr 29 15:17:10 2020



4/30/20 MJ

AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	122.1	94192	PASS
96	95	5	9	6.6	6205	PASS
173	174	0.00	2	0.6	456	PASS
174	95	50	200	81.9	77136	PASS
175	174	5	9	7.0	5387	PASS
176	174	95	105	96.5	74421	PASS
177	176	5	10	6.5	4838	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 30 09:38:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	124093	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	341352	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	142707	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	123436	50.03 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	405997	50.85 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	481590	51.67 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	119487	52.19 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.972	50	162	0.05 ug/L	#	50
4) Vinyl Chloride	0.000		0	N.D.		
5) Bromomethane	2.533	96	33	0.02 ug/L	#	7
6) Chloroethane	2.716	64	22	Below Cal	#	47
7) Trichlorofluoromethane	2.935	101	10	0.00 ug/L	#	27
8) Ethanol	3.606	45	594	9.24 ug/L		89
9) 1,1-Dichloroethene	0.000		0	N.D.		
10) Carbon Disulfide	3.576	76	21	0.00 ug/L		78
11) Freon 113	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	4.295	84	5930	2.10 ug/L		94
15) Acetone	4.380	43	1661	1.30 ug/L		82
16) t-1,2-Dichloroethene	0.000		0	N.D.		
17) n-Hexane	0.000		0	N.D.		
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.819	59	283	0.75 ug/L	#	85
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	0.000		0	N.D.		
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	0.000		0	N.D.		
26) 2,2-Dichloropropane	0.000		0	N.D.		
27) Bromochloromethane	0.000		0	N.D.		
28) Chloroform	0.000		0	N.D.		
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	0.000		0	N.D.		
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	0.000		0	N.D.		
34) 2-Butanone (MEK)	0.000		0	N.D.		
35) Benzene	6.740	78	22	0.00 ug/L		56
36) tert-Amyl methyl ether...	6.837	73	150	0.03 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.		
38) iso-Butyl Alcohol	0.000		0	N.D.		
40) Trichloroethene (TCE)	0.000		0	N.D.		
41) tert-Amyl ethyl ether ...	7.666	59	10	0.00 ug/L	#	21
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	7.922	63	10	0.00 ug/L	#	40
44) Bromodichloromethane	8.130	83	10	0.00 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	0.000		0	N.D.		
49) Toluene	9.014	91	9	0.01 ug/L		19

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 30 09:38:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

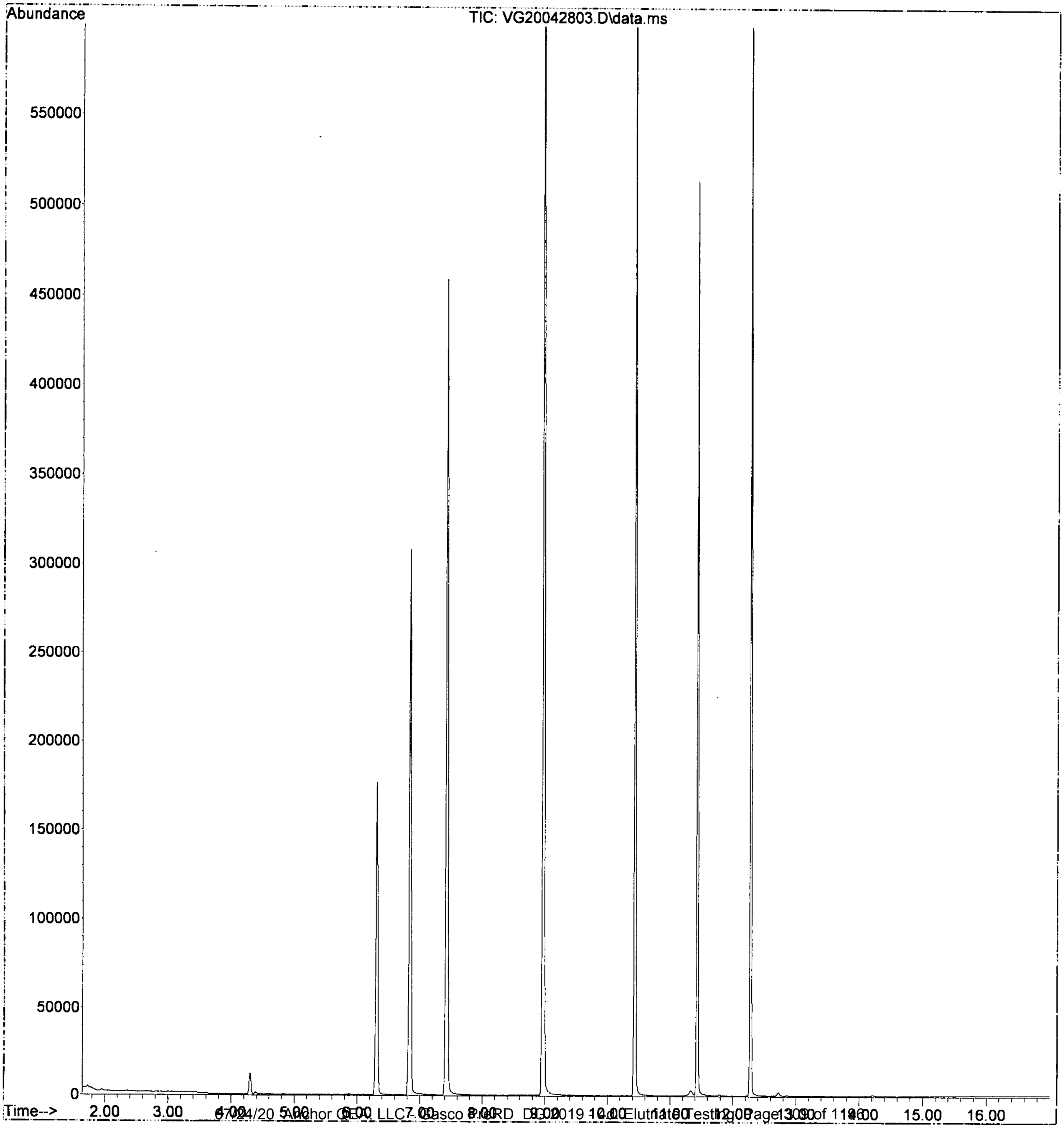
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	0.000		0	N.D.	
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	10.452	112	11	0.00 ug/L #	1
59) Ethylbenzene	10.477	91	12	0.00 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.605	91	24	0.14 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	11.422	156	63	0.03 ug/L #	1
69) n-Propylbenzene	11.544	91	42	0.00 ug/L	56
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.672	91	10	0.00 ug/L #	46
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
78) sec-Butylbenzene	0.000		0	N.D.	
79) 4-Isopropyltoluene	12.141	119	10	0.16 ug/L	51
80) 1,3-Dichlorobenzene	12.293	146	41	0.01 ug/L #	1
81) 1,4-Dichlorobenzene	12.293	146	41	0.01 ug/L #	1
82) n-Butylbenzene	12.476	91	19	0.00 ug/L #	32
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042803.D
Acq On : 28 Apr 2020 2:55 pm
Operator : PS
Sample : 0D28059-TUN1
Misc : 1X A20D004 BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 30 09:38:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042804.D
Acq On : 28 Apr 2020 3:22 pm
Operator : PS
Sample : 0D28059-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 09:38:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	129312	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	360314	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	151240	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	129593	50.41 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	430329	51.72 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	507019	51.54 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.427	174	126557	52.16 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.978	50	111	0.03 ug/L #	50
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	2.533	96	140	0.07 ug/L	74
6) Chloroethane	2.728	64	37	Below Cal #	47
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	3.612	45	351	5.24 ug/L	76
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	0.000		0	N.D.	
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	4.295	84	6371	2.16 ug/L	98
15) Acetone	4.380	43	1339	1.01 ug/L	89
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	4.807	59	391	1.00 ug/L #	53
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	5.880	77	11	0.01 ug/L #	32
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	0.000		0	N.D.	
34) 2-Butanone (MEK)	0.000		0	N.D.	
35) Benzene	6.727	78	21	0.00 ug/L	56
36) tert-Amyl methyl ether...	6.825	73	168	0.03 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	0.000		0	N.D.	
49) Toluene	9.007	91	79	0.01 ug/L #	19

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042804.D
Acq On : 28 Apr 2020 3:22 pm
Operator : PS
Sample : 0D28059-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 09:38:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

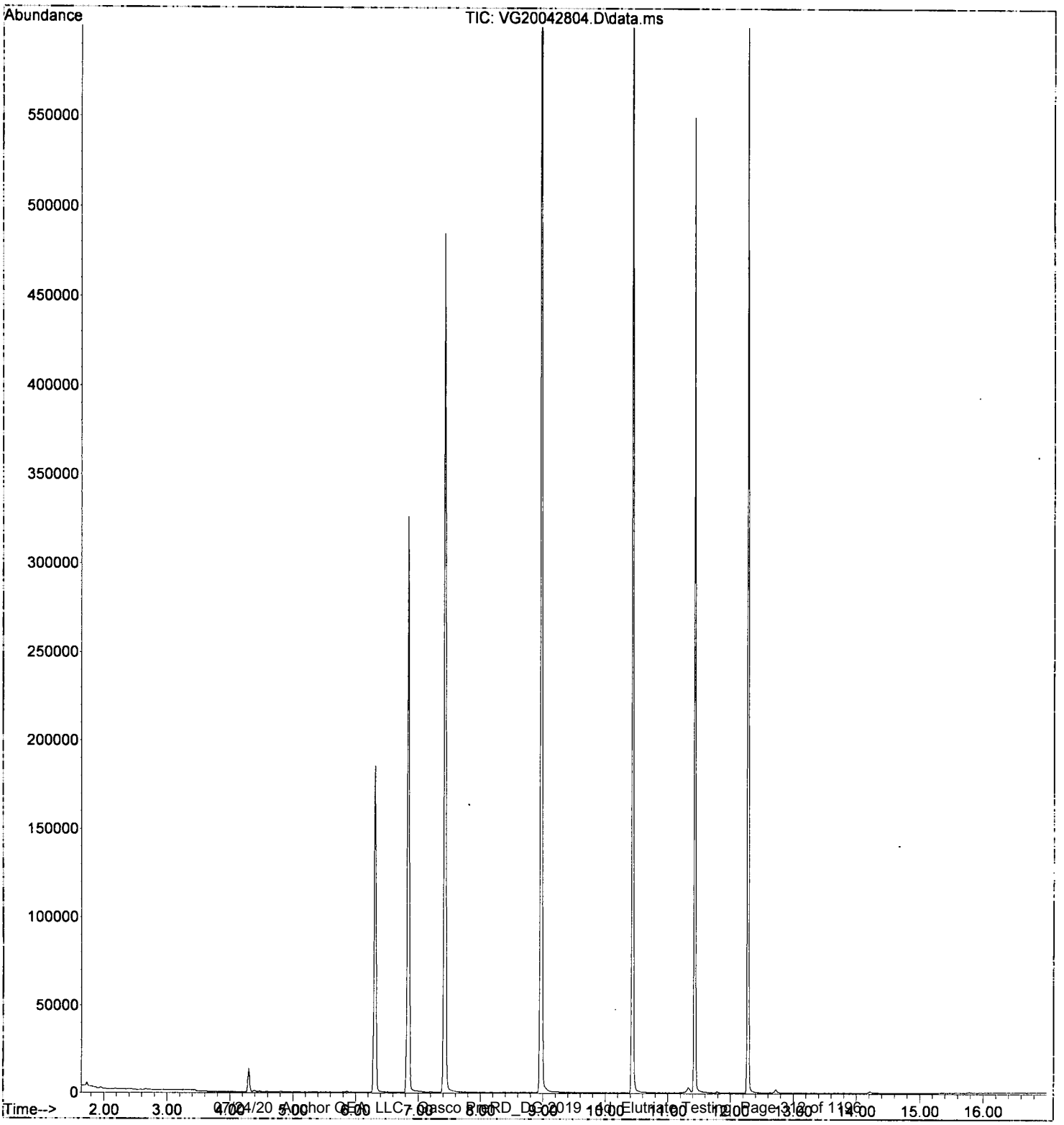
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.422	166	10	0.00 ug/L #	24
51) 4-Methyl-2-Pentanone (...	9.434	43	11	0.00 ug/L #	43
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	9.696	97	10	0.00 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	10.111	43	10	0.00 ug/L #	32
58) Chlorobenzene	10.452	112	10	0.00 ug/L #	1
59) Ethylbenzene	10.434	91	734	0.07 ug/L #	1
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.604	91	61	0.15 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	0.000		0	N.D.	
68) Bromobenzene	0.000		0	N.D.	
69) n-Propylbenzene	11.543	91	10	0.00 ug/L	56
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	0.000		0	N.D.	
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	0.000		0	N.D.	
78) sec-Butylbenzene	0.000		0	N.D.	
79) 4-Isopropyltoluene	12.147	119	11	0.16 ug/L #	12
80) 1,3-Dichlorobenzene	0.000		0	N.D.	
81) 1,4-Dichlorobenzene	0.000		0	N.D.	
82) n-Butylbenzene	0.000		0	N.D.	
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
87) Naphthalene	0.000		0	N.D.	
88) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042804.D
Acq On : 28 Apr 2020 3:22 pm
Operator : PS
Sample : 0D28059-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 09:38:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	113531	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	310108	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	129589	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	112724	53.18	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	368655	54.10	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	437447	53.71	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	107903	49.26	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	304	0.14	ug/L		81
3) Chloromethane	1.978	50	466	0.22	ug/L		94
4) Vinyl Chloride	2.100	62	315	0.14	ug/L	#	53
5) Bromomethane	2.527	96	385	0.27	ug/L	#	67
6) Chloroethane	2.722	64	290	0.11	ug/L	#	63
7) Trichlorofluoromethane	2.917	101	352	0.12	ug/L		95
8) Ethanol	3.618	45	653	12.61	ug/L		72
9) 1,1-Dichloroethene	3.563	61	356	0.12	ug/L	#	63
10) Carbon Disulfide	3.569	76	488	0.13	ug/L		78
11) Freon 113	3.655	101	229	0.12	ug/L	#	60
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.	d		
14) Methylene Chloride	4.301	84	3714	1.80	ug/L		90
15) Acetone	4.392	43	1500	1.41	ug/L		85
16) t-1,2-Dichloroethene	4.490	61	387	0.14	ug/L		77
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	4.636	73	537	0.12	ug/L		57
19) tert-Butanol (TBA)	4.807	59	2202	7.18	ug/L	#	38
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	d		
21) 1,1-Dichloroethane	5.197	63	440	0.12	ug/L		74
22) Acrylonitrile	0.000		0	N.D.	d		
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d		
25) c-1,2-Dichloroethene	5.801	61	306	0.12	ug/L	#	73
26) 2,2-Dichloropropane	5.923	77	151	0.10	ug/L	#	32
27) Bromochloromethane	6.020	49	271	0.15	ug/L		74
28) Chloroform	6.106	83	470	0.13	ug/L		89
29) Carbon Tetrachloride	6.246	117	41	0.02	ug/L		86
30) Tetrahydrofuran	0.000		0	N.D.	d		
31) 1,1,1-Trichloroethane	6.319	97	352	0.13	ug/L		84
33) 1,1-Dichloropropene	6.465	75	257	0.11	ug/L	#	39
34) 2-Butanone (MEK)	0.000		0	N.D.	d		
35) Benzene	6.733	78	1003	0.13	ug/L		95
36) tert-Amyl methyl ether...	0.000		0	N.D.	d		
37) 1,2-Dichloroethane (EDC)	6.959	62	343	0.12	ug/L		78
38) iso-Butyl Alcohol	7.032	43	384	2.04	ug/L		80
40) Trichloroethene (TCE)	7.392	130	318	0.13	ug/L	#	77
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	d		
42) Dibromomethane	7.843	93	185	0.14	ug/L	#	1
43) 1,2-Dichloropropane	7.977	63	244	0.12	ug/L	#	36
44) Bromodichloromethane	8.050	83	206	0.09	ug/L		91
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	d		
47) c-1,3-Dichloropropene	8.782	75	199	0.09	ug/L	#	52
49) Toluene	9.026	91	1265	0.14	ug/L		71

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	188	0.08 ug/L	79
51) 4-Methyl-2-Pentanone (...	9.440	43	425	0.14 ug/L	78
52) t-1,3-Dichloropropene	9.465	75	132	0.39 ug/L #	45
53) 1,1,2-Trichloroethane	9.617	97	221	0.11 ug/L #	54
54) Dibromochloromethane	9.769	129	141	0.25 ug/L #	55
55) 1,3-Dichloropropane	9.861	76	384	0.12 ug/L	78
56) 1,2-Dibromoethane (EDB)	9.989	107	135	0.06 ug/L	77
57) 2-Hexanone	10.221	43	181	0.08 ug/L	63
58) Chlorobenzene	10.446	112	784	0.13 ug/L #	23
59) Ethylbenzene	10.477	91	1080	0.11 ug/L	93
60) 1,1,1,2-Tetrachloroethane	10.507	131	140	0.08 ug/L #	69
61) m,p-Xylenes (2)	10.599	91	1169	0.23 ug/L	97
62) o-Xylene	10.946	91	660	0.17 ug/L	80
63) Styrene	11.013	104	277	0.39 ug/L	68
64) Bromoform	11.019	173	71	0.39 ug/L #	37
65) Isopropylbenzene	11.202	105	595	0.35 ug/L	89
68) Bromobenzene	11.507	156	220	0.10 ug/L #	64
69) n-Propylbenzene	11.525	91	972	0.12 ug/L	92
70) 1,1,2,2-Tetrachloroethane	11.598	83	312	0.14 ug/L #	55
71) 2-Chlorotoluene	11.659	126	191	0.11 ug/L #	49
72) 1,3,5-Trimethylbenzene	11.678	105	506	0.10 ug/L	79
73) 1,2,3-Trichloropropane	11.696	110	68	0.09 ug/L #	71
74) t-1,4-Dichloro-2-butene	0.000		0	N.D. d	
75) 4-Chlorotoluene	11.781	91	557	0.11 ug/L	91
76) tert-Butylbenzene	11.915	91	357	0.13 ug/L #	55
77) 1,2,4-Trimethylbenzene	11.970	105	468	0.09 ug/L	93
78) sec-Butylbenzene	12.043	105	570	0.10 ug/L	97
79) 4-Isopropyltoluene	12.147	119	409	0.22 ug/L	82
80) 1,3-Dichlorobenzene	12.226	146	351	0.10 ug/L	85
81) 1,4-Dichlorobenzene	12.281	146	460	0.12 ug/L #	1
82) n-Butylbenzene	12.476	91	402	0.10 ug/L	73
83) 1,2-Dichlorobenzene	12.616	146	327	0.10 ug/L	90
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D. d	
86) 1,2,4-Trichlorobenzene	13.872	180	99	0.06 ug/L #	60
87) Naphthalene	14.189	128	291	0.96 ug/L	79
88) 1,2,3-Trichlorobenzene	0.000		0	N.D. d	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:27:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	113531	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	310108	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	129589	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	112724	53.18	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	368655	54.10	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	437447	53.71	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	107903	49.26	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	304	0.14	ug/L		81
3) Chloromethane	1.978	50	466	0.22	ug/L		94
4) Vinyl Chloride	2.100	62	315	0.14	ug/L	#	53
5) Bromomethane	2.527	96	385	0.27	ug/L	#	67
6) Chloroethane	2.722	64	290	0.11	ug/L	#	63
7) Trichlorofluoromethane	2.917	101	352	0.12	ug/L		95
8) Ethanol	3.618	45	653	12.61	ug/L		72
9) 1,1-Dichloroethene	3.563	61	356	0.12	ug/L	#	63
10) Carbon Disulfide	3.569	76	488	0.13	ug/L		78
11) Freon 113	3.655	101	229	0.12	ug/L	#	60
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.008	56	19	0.04	ug/L	#	23
14) Methylene Chloride	4.301	84	3714	1.80	ug/L		90
15) Acetone	4.392	43	1500	1.41	ug/L		85
16) t-1,2-Dichloroethene	4.490	61	387	0.14	ug/L		77
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	4.636	73	537	0.12	ug/L		57
19) tert-Butanol (TBA)	4.807	59	2202	7.18	ug/L	#	38
20) Diisopropyl ether (DIPE)	5.094	45	115	0.02	ug/L	#	33
21) 1,1-Dichloroethane	5.197	63	440	0.12	ug/L		74
22) Acrylonitrile	5.270	53	10	0.01	ug/L	#	14
23) Vinyl Acetate	5.532	43	10	0.61	ug/L		74
24) Ethyl-tert-butyl ether...	5.478	59	46	0.01	ug/L	#	38
25) c-1,2-Dichloroethene	5.801	61	306	0.12	ug/L	#	73
26) 2,2-Dichloropropane	5.923	77	151	0.10	ug/L	#	32
27) Bromochloromethane	6.020	49	271	0.15	ug/L		74
28) Chloroform	6.106	83	470	0.13	ug/L		89
29) Carbon Tetrachloride	6.246	117	41	0.02	ug/L		86
30) Tetrahydrofuran	6.301	42	10	0.01	ug/L	#	37
31) 1,1,1-Trichloroethane	6.319	97	352	0.13	ug/L		84
33) 1,1-Dichloropropene	6.465	75	257	0.11	ug/L	#	39
34) 2-Butanone (MEK)	6.490	43	113	0.07	ug/L		52
35) Benzene	6.733	78	1003	0.13	ug/L		95
36) tert-Amyl methyl ether...	6.843	73	311	0.08	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	343	0.12	ug/L		78
38) iso-Butyl Alcohol	7.032	43	384	2.04	ug/L		80
40) Trichloroethene (TCE)	7.392	130	318	0.13	ug/L	#	77
41) tert-Amyl ethyl ether ...	7.654	59	11	0.00	ug/L	#	21
42) Dibromomethane	7.843	93	185	0.14	ug/L	#	1
43) 1,2-Dichloropropane	7.977	63	244	0.12	ug/L	#	36
44) Bromodichloromethane	8.050	83	206	0.09	ug/L		91
46) 2-Chloroethyl Vinyl Ether	8.733	63	21	0.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	199	0.09	ug/L	#	52
49) Toluene	9.026	91	1265	0.14	ug/L		81

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:27:14 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

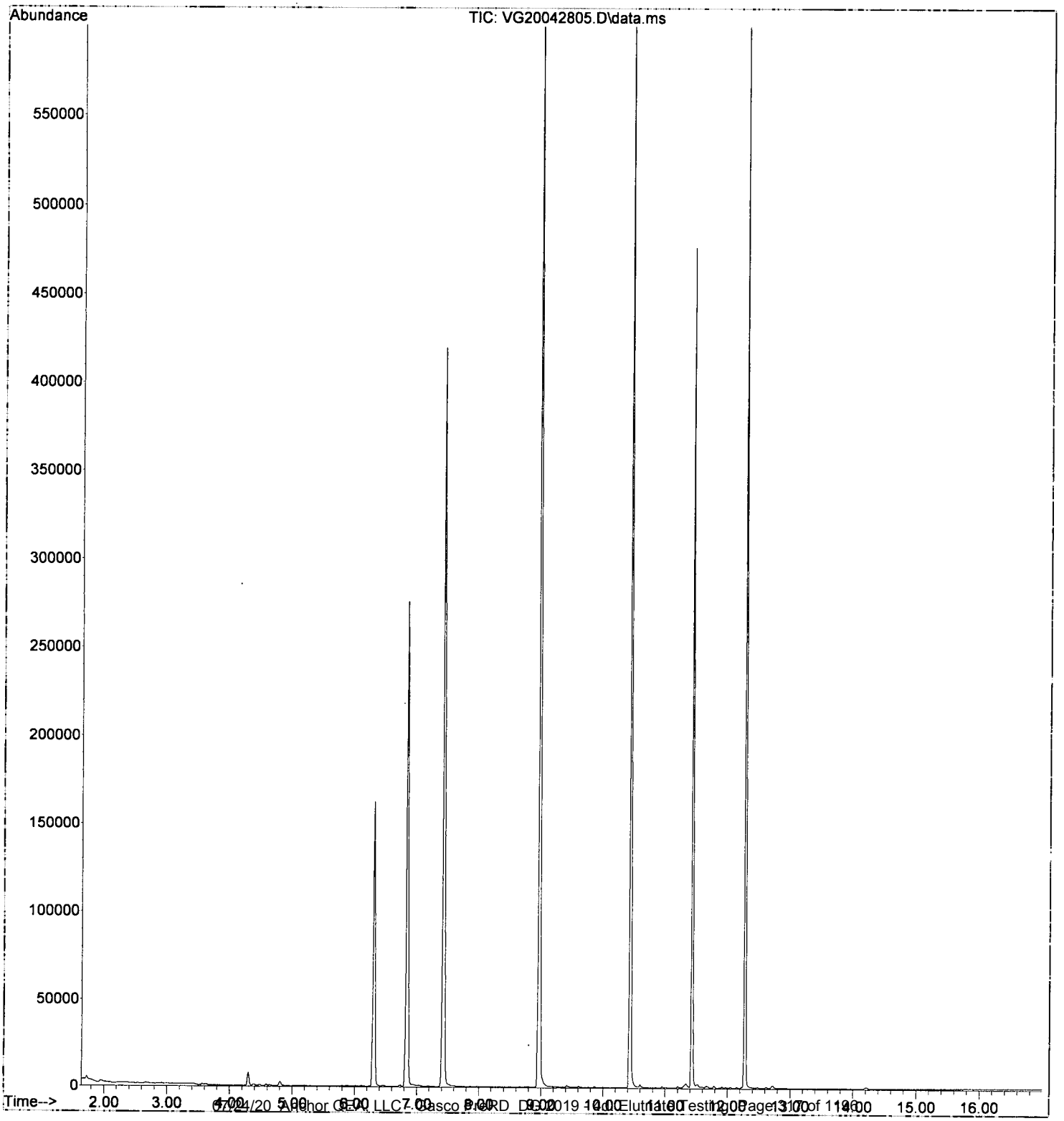
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	188	0.08	ug/L		79
51) 4-Methyl-2-Pentanone (...	9.440	43	425	0.14	ug/L		78
52) t-1,3-Dichloropropene	9.465	75	132	0.39	ug/L	#	45
53) 1,1,2-Trichloroethane	9.617	97	221	0.11	ug/L	#	54
54) Dibromochloromethane	9.769	129	141	0.25	ug/L	#	55
55) 1,3-Dichloropropane	9.861	76	384	0.12	ug/L		78
56) 1,2-Dibromoethane (EDB)	9.989	107	135	0.06	ug/L		77
57) 2-Hexanone	10.221	43	181	0.08	ug/L		63
58) Chlorobenzene	10.446	112	784	0.13	ug/L	#	23
59) Ethylbenzene	10.477	91	1080	0.11	ug/L		93
60) 1,1,1,2-Tetrachloroethane	10.507	131	140	0.08	ug/L	#	69
61) m,p-Xylenes (2)	10.599	91	1169	0.23	ug/L		97
62) o-Xylene	10.946	91	660	0.17	ug/L		80
63) Styrene	11.013	104	277	0.09	ug/L		68
64) Bromoform	11.019	173	71	0.09	ug/L	#	37
65) Isopropylbenzene	11.202	105	595	0.15	ug/L		89
68) Bromobenzene	11.507	156	220	0.10	ug/L	#	64
69) n-Propylbenzene	11.525	91	972	0.12	ug/L		92
70) 1,1,2,2-Tetrachloroethane	11.598	83	312	0.14	ug/L	#	55
71) 2-Chlorotoluene	11.659	126	191	0.11	ug/L	#	49
72) 1,3,5-Trimethylbenzene	11.678	105	506	0.10	ug/L		79
73) 1,2,3-Trichloropropane	11.696	110	68	0.09	ug/L	#	71
74) t-1,4-Dichloro-2-butene	11.781	88	10	1.24	ug/L	#	1
75) 4-Chlorotoluene	11.781	91	557	0.11	ug/L		91
76) tert-Butylbenzene	11.915	91	357	0.13	ug/L	#	55
77) 1,2,4-Trimethylbenzene	11.970	105	468	0.09	ug/L		93
78) sec-Butylbenzene	12.043	105	570	0.10	ug/L		97
79) 4-Isopropyltoluene	12.147	119	409	0.22	ug/L		82
80) 1,3-Dichlorobenzene	12.226	146	351	0.10	ug/L		85
81) 1,4-Dichlorobenzene	12.281	146	460	0.12	ug/L	#	1
82) n-Butylbenzene	12.476	91	402	0.10	ug/L		73
83) 1,2-Dichlorobenzene	12.616	146	327	0.10	ug/L		90
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.			
85) Hexachlorobutadiene	13.811	223	12	0.03	ug/L	#	5
86) 1,2,4-Trichlorobenzene	13.872	180	99	0.06	ug/L	#	60
87) Naphthalene	14.189	128	291	0.96	ug/L		79
88) 1,2,3-Trichlorobenzene	14.366	180	41	0.02	ug/L	#	62

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042805.D
Acq On : 28 Apr 2020 3:49 pm
Operator : PS
Sample : 0D28059-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 14:35:56 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:38:18 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	Qion	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	125854	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	351200	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	147833	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	126891	54.00	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	415901	55.06	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	494085	53.56	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	122178	48.89	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	527	0.23	ug/L		97
3) Chloromethane	1.984	50	787	0.33	ug/L		86
4) Vinyl Chloride	2.094	62	651	0.26	ug/L		75
5) Bromomethane	2.533	96	645	0.40	ug/L		94
6) Chloroethane	2.716	64	472	0.27	ug/L		89
7) Trichlorofluoromethane	2.911	101	715	0.22	ug/L		84
8) Ethanol	3.612	45	941	16.39	ug/L		87
9) 1,1-Dichloroethene	3.563	61	711	0.22	ug/L		91
10) Carbon Disulfide	3.563	76	850	0.20	ug/L		78
11) Freon 113	3.649	101	435	0.21	ug/L		91
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.	d		
14) Methylene Chloride	4.301	84	5057	2.21	ug/L		98
15) Acetone	4.392	43	1950	1.65	ug/L		98
16) t-1,2-Dichloroethene	4.490	61	652	0.22	ug/L		96
17) n-Hexane	4.588	86	27	0.10	ug/L	#	19
18) Methyl-tert-butyl-ether	4.642	73	917	0.18	ug/L		88
19) tert-Butanol (TBA)	4.801	59	4291	12.63	ug/L	#	42
20) Diisopropyl ether (DIPE)	5.100	45	271	0.05	ug/L		58
21) 1,1-Dichloroethane	5.185	63	879	0.22	ug/L		81
22) Acrylonitrile	0.000		0	N.D.	d		
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d		
25) c-1,2-Dichloroethene	5.807	61	606	0.21	ug/L		85
26) 2,2-Dichloropropane	5.910	77	410	0.24	ug/L		69
27) Bromochloromethane	6.014	49	526	0.27	ug/L		85
28) Chloroform	6.112	83	849	0.22	ug/L		95
29) Carbon Tetrachloride	6.234	117	279	0.13	ug/L		83
30) Tetrahydrofuran	6.301	42	176	0.16	ug/L	#	64
31) 1,1,1-Trichloroethane	6.313	97	542	0.19	ug/L		82
33) 1,1-Dichloropropene	6.453	75	553	0.21	ug/L		82
34) 2-Butanone (MEK)	0.000		0	N.D.	d		
35) Benzene	6.727	78	1916	0.22	ug/L		93
36) tert-Amyl methyl ether...	0.000		0	N.D.	d		
37) 1,2-Dichloroethane (EDC)	6.965	62	715	0.22	ug/L		83
38) iso-Butyl Alcohol	7.038	43	824m	3.96	ug/L		
40) Trichloroethene (TCE)	7.386	130	572	0.22	ug/L		82
41) tert-Amyl ethyl ether ...	7.660	59	92	0.03	ug/L		90
42) Dibromomethane	7.861	93	297	0.20	ug/L	#	59
43) 1,2-Dichloropropane	7.971	63	510	0.22	ug/L		81
44) Bromodichloromethane	8.050	83	496	0.20	ug/L		90
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	d		
47) c-1,3-Dichloropropene	8.782	75	475	0.18	ug/L		80
49) Toluene	9.020	91	1257	0.21	ug/L		71

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:38:18 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

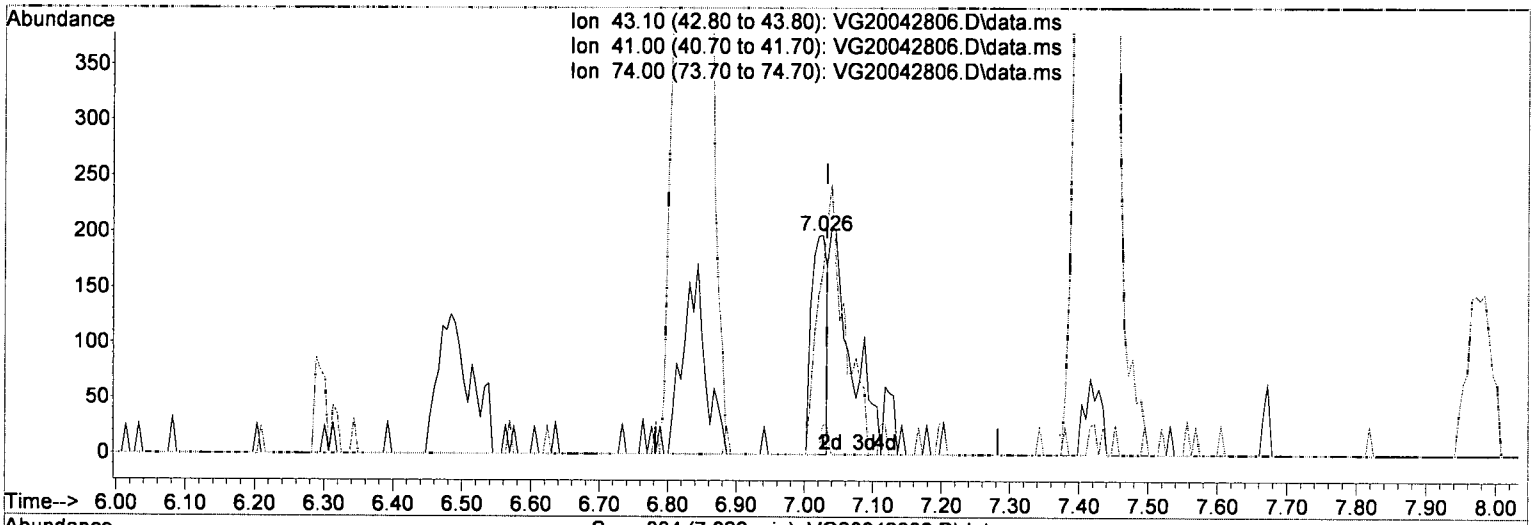
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	432	0.16	ug/L		80
51) 4-Methyl-2-Pentanone (...	9.428	43	1009	0.29	ug/L		91
52) t-1,3-Dichloropropene	9.459	75	262	0.43	ug/L		72
53) 1,1,2-Trichloroethane	9.605	97	483	0.21	ug/L		87
54) Dibromochloromethane	9.776	129	285	0.30	ug/L		88
55) 1,3-Dichloropropane	9.861	76	668	0.18	ug/L		83
56) 1,2-Dibromoethane (EDB)	9.983	107	377	0.16	ug/L		74
57) 2-Hexanone	10.202	43	490	0.18	ug/L		70
58) Chlorobenzene	10.440	112	1372	0.20	ug/L	#	1
59) Ethylbenzene	10.471	91	1953	0.18	ug/L		94
60) 1,1,1,2-Tetrachloroethane	10.501	131	402	0.20	ug/L	#	52
61) m,p-Xylenes (2)	10.592	91	2530	0.38	ug/L		91
62) o-Xylene	10.952	91	1046	0.20	ug/L		91
63) Styrene	11.007	104	645	0.44	ug/L		90
64) Bromoform	11.025	173	181	0.44	ug/L		87
65) Isopropylbenzene	11.208	105	1157	0.41	ug/L		87
68) Bromobenzene	11.507	156	477	0.19	ug/L	#	72
69) n-Propylbenzene	11.525	91	1758	0.19	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	560	0.22	ug/L		94
71) 2-Chlorotoluene	11.653	126	365	0.18	ug/L		83
72) 1,3,5-Trimethylbenzene	11.672	105	901	0.15	ug/L		95
73) 1,2,3-Trichloropropane	11.696	110	184	0.21	ug/L	#	63
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	d		
75) 4-Chlorotoluene	11.787	91	1076	0.19	ug/L		93
76) tert-Butylbenzene	11.915	91	592	0.19	ug/L	#	65
77) 1,2,4-Trimethylbenzene	11.970	105	860	0.15	ug/L		94
78) sec-Butylbenzene	12.050	105	1055	0.16	ug/L		95
79) 4-Isopropyltoluene	12.147	119	770	0.27	ug/L		98
80) 1,3-Dichlorobenzene	12.226	146	720	0.19	ug/L		79
81) 1,4-Dichlorobenzene	12.287	146	974	0.22	ug/L	#	70
82) n-Butylbenzene	12.476	91	781	0.17	ug/L		86
83) 1,2-Dichlorobenzene	12.616	146	615	0.16	ug/L		83
84) 1,2-Dibromo-3-Chloropr...	13.269	157	62	0.10	ug/L	#	15
85) Hexachlorobutadiene	13.811	223	70	0.14	ug/L	#	17
86) 1,2,4-Trichlorobenzene	13.860	180	239	0.12	ug/L	#	61
87) Naphthalene	14.189	128	494	0.98	ug/L		79
88) 1,2,3-Trichlorobenzene	14.372	180	236	0.12	ug/L		80

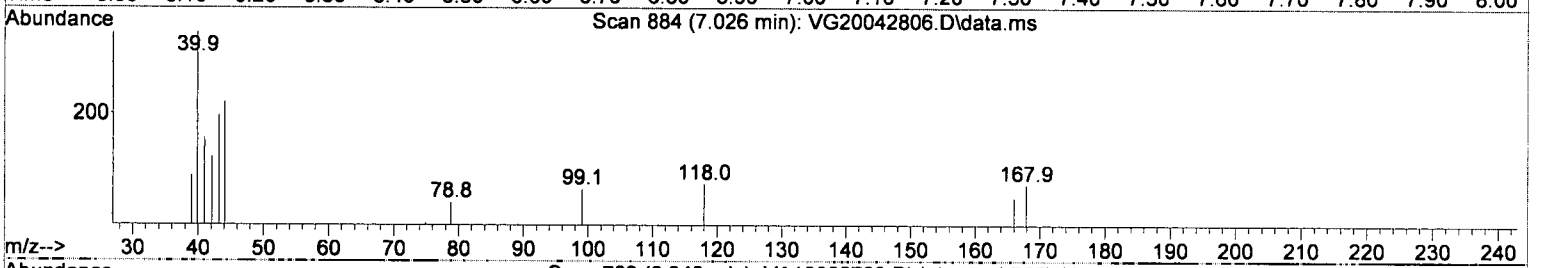
(#) = qualifier out of range (m) = manual integration (+) = signals summed

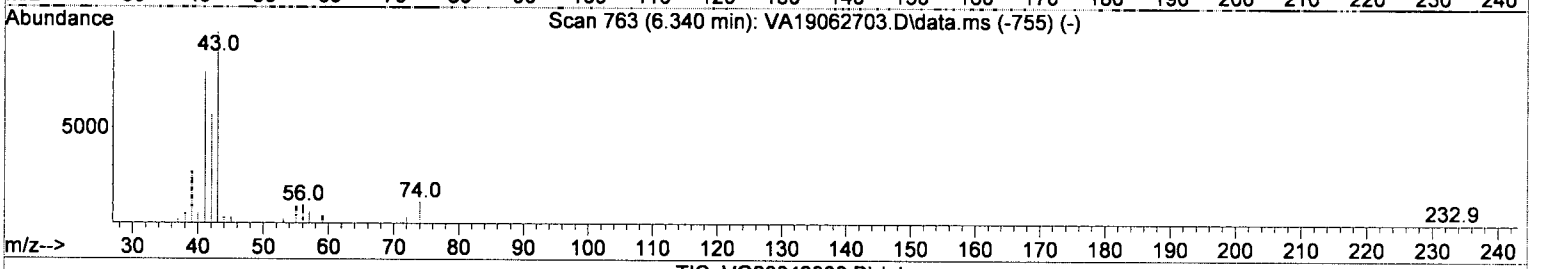
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042806.D\data.ms

(38) iso-Butyl Alcohol

7.026min (-0.006) 1.53 ug/L

response 319

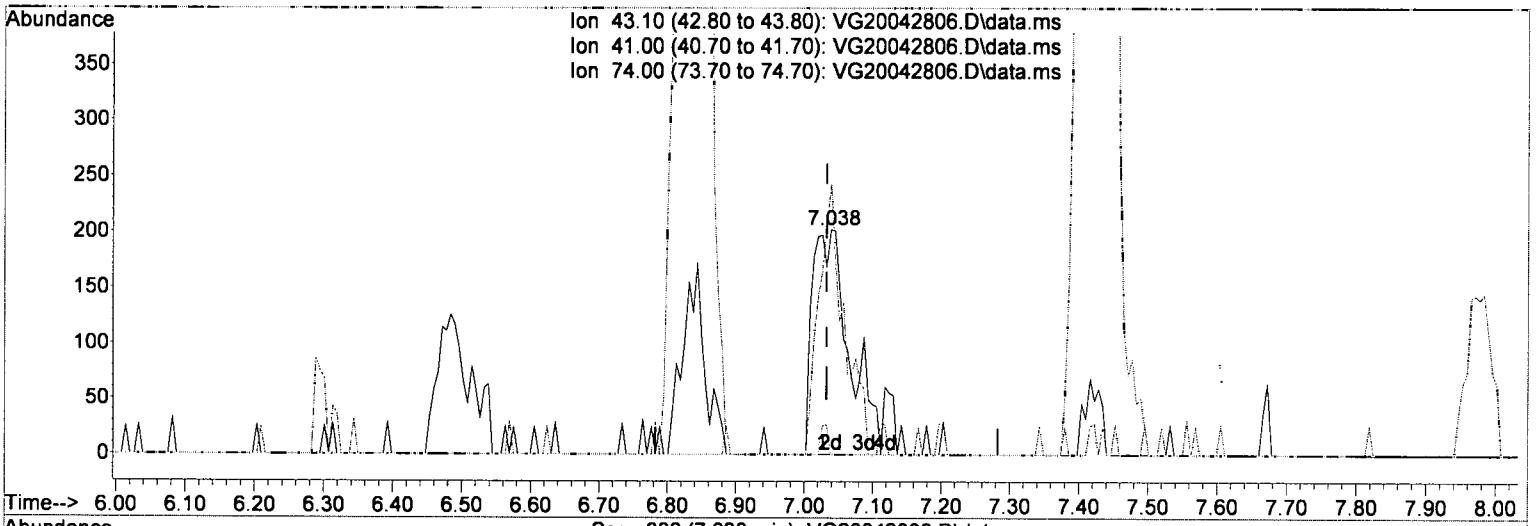
Ion	Exp%	Act%
43.10	100.00	100.00
41.00	71.80	83.25
74.00	11.60	13.20
0.00	0.00	0.00

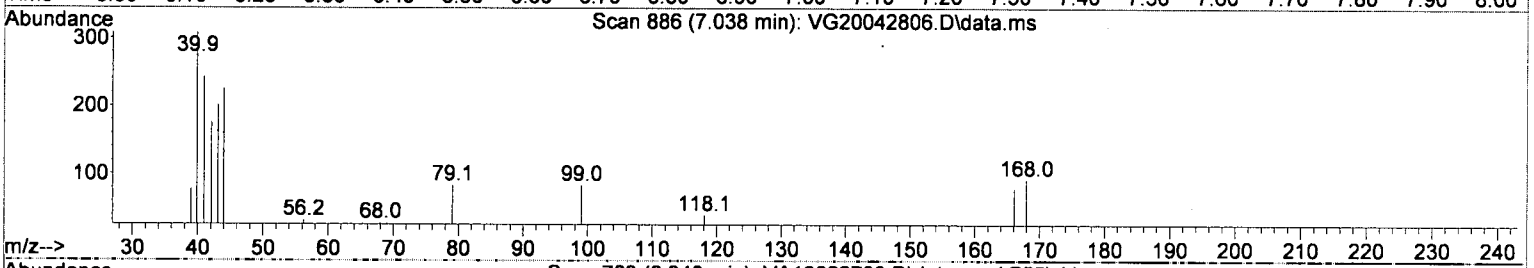
(ME) 4/30/2020

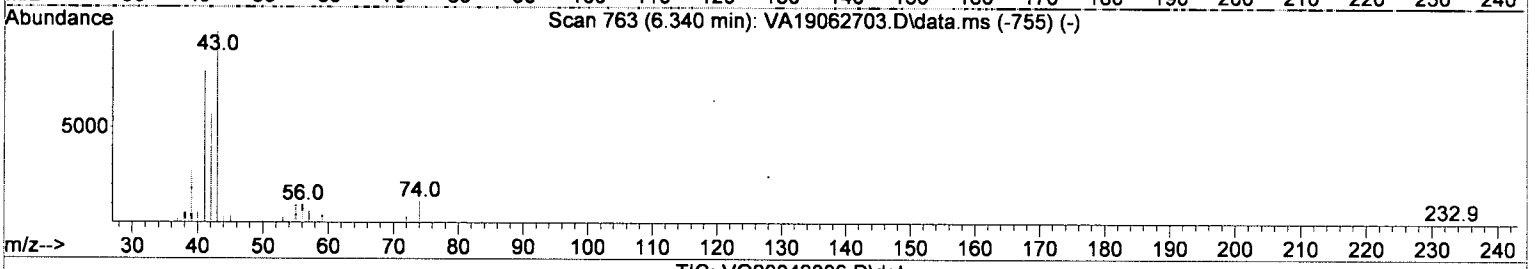
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042806.D\data.ms

(38) iso-Butyl Alcohol

7.038min (+ 0.006) 3.96 ug/L m

response 824

Ion	Exp%	Act%
43.10	100.00	100.00
41.00	71.80	120.30#
74.00	11.60	0.00
0.00	0.00	0.00

4/30/20 JM

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	125854	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	351200	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	147833	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	126891	54.00	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	415901	55.06	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	494085	53.56	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	122178	48.89	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	527	0.23	ug/L		97
3) Chloromethane	1.984	50	787	0.33	ug/L		86
4) Vinyl Chloride	2.094	62	651	0.26	ug/L		75
5) Bromomethane	2.533	96	645	0.40	ug/L		94
6) Chloroethane	2.716	64	472	0.27	ug/L		89
7) Trichlorofluoromethane	2.911	101	715	0.22	ug/L		84
8) Ethanol	3.612	45	941	16.39	ug/L		87
9) 1,1-Dichloroethene	3.563	61	711	0.22	ug/L		91
10) Carbon Disulfide	3.563	76	850	0.20	ug/L		78
11) Freon 113	3.649	101	435	0.21	ug/L		91
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.015	56	45	0.09	ug/L		82
14) Methylene Chloride	4.301	84	5057	2.21	ug/L		98
15) Acetone	4.392	43	1950	1.65	ug/L		98
16) t-1,2-Dichloroethene	4.490	61	652	0.22	ug/L		96
17) n-Hexane	4.588	86	27	0.10	ug/L	#	19
18) Methyl-tert-butyl-ether	4.642	73	917	0.18	ug/L		88
19) tert-Butanol (TBA)	4.801	59	4291	12.63	ug/L	#	42
20) Diisopropyl ether (DIPE)	5.100	45	271	0.05	ug/L		58
21) 1,1-Dichloroethane	5.185	63	879	0.22	ug/L		81
22) Acrylonitrile	5.289	53	64	0.05	ug/L		91
23) Vinyl Acetate	5.557	43	55	0.63	ug/L		74
24) Ethyl-tert-butyl ether...	5.484	59	160	0.04	ug/L	#	56
25) c-1,2-Dichloroethene	5.807	61	606	0.21	ug/L		85
26) 2,2-Dichloropropane	5.910	77	410	0.24	ug/L		69
27) Bromochloromethane	6.014	49	526	0.27	ug/L		85
28) Chloroform	6.112	83	849	0.22	ug/L		95
29) Carbon Tetrachloride	6.234	117	279	0.13	ug/L		83
30) Tetrahydrofuran	6.301	42	176	0.16	ug/L	#	64
31) 1,1,1-Trichloroethane	6.313	97	542	0.19	ug/L		82
33) 1,1-Dichloropropene	6.453	75	553	0.21	ug/L		82
34) 2-Butanone (MEK)	6.484	43	308	0.18	ug/L		52
35) Benzene	6.727	78	1916	0.22	ug/L		93
36) tert-Amyl methyl ether...	6.849	73	459	0.11	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.965	62	715	0.22	ug/L		83
38) iso-Butyl Alcohol	7.026	43	319	1.53	ug/L		88
40) Trichloroethene (TCE)	7.386	130	572	0.22	ug/L		82
41) tert-Amyl ethyl ether ...	7.660	59	92	0.03	ug/L		90
42) Dibromomethane	7.861	93	297	0.20	ug/L	#	59
43) 1,2-Dichloropropane	7.971	63	510	0.22	ug/L		81
44) Bromodichloromethane	8.050	83	496	0.20	ug/L		90
46) 2-Chloroethyl Vinyl Ether	8.745	63	32	0.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	475	0.18	ug/L		80
49) Toluene	9.020	91	2357	0.22	ug/L		95

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:27:17 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

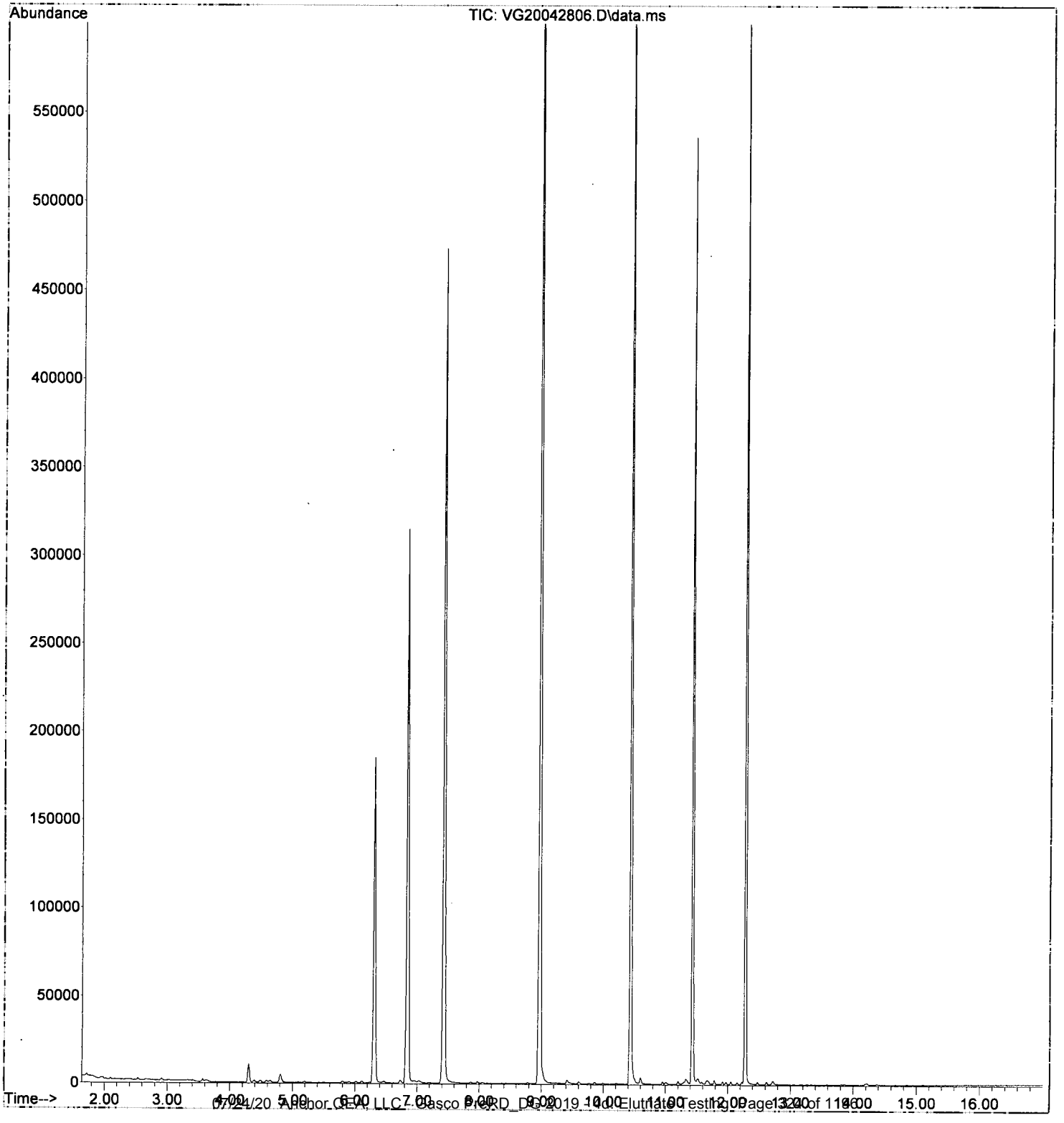
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	432	0.16	ug/L		80
51) 4-Methyl-2-Pentanone (...	9.428	43	1009	0.29	ug/L		91
52) t-1,3-Dichloropropene	9.459	75	262	0.43	ug/L		72
53) 1,1,2-Trichloroethane	9.605	97	483	0.21	ug/L		87
54) Dibromochloromethane	9.776	129	285	0.30	ug/L		88
55) 1,3-Dichloropropane	9.861	76	668	0.18	ug/L		83
56) 1,2-Dibromoethane (EDB)	9.983	107	377	0.16	ug/L		74
57) 2-Hexanone	10.202	43	490	0.13	ug/L		70
58) Chlorobenzene	10.440	112	1372	0.20	ug/L	#	1
59) Ethylbenzene	10.471	91	1953	0.18	ug/L		94
60) 1,1,1,2-Tetrachloroethane	10.501	131	402	0.20	ug/L	#	52
61) m,p-Xylenes (2)	10.592	91	2530	0.38	ug/L		91
62) o-Xylene	10.952	91	1046	0.20	ug/L		91
63) Styrene	11.007	104	645	0.44	ug/L		90
64) Bromoform	11.025	173	181	0.44	ug/L		87
65) Isopropylbenzene	11.208	105	1157	0.41	ug/L		87
68) Bromobenzene	11.507	156	477	0.19	ug/L	#	72
69) n-Propylbenzene	11.525	91	1758	0.19	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	560	0.22	ug/L		94
71) 2-Chlorotoluene	11.653	126	365	0.18	ug/L		83
72) 1,3,5-Trimethylbenzene	11.672	105	901	0.15	ug/L		95
73) 1,2,3-Trichloropropane	11.696	110	184	0.21	ug/L	#	63
74) t-1,4-Dichloro-2-butene	11.629	88	10	1.24	ug/L	#	1
75) 4-Chlorotoluene	11.787	91	1076	0.19	ug/L		93
76) tert-Butylbenzene	11.915	91	592	0.19	ug/L	#	65
77) 1,2,4-Trimethylbenzene	11.970	105	860	0.15	ug/L		94
78) sec-Butylbenzene	12.050	105	1055	0.16	ug/L		95
79) 4-Isopropyltoluene	12.147	119	770	0.27	ug/L		98
80) 1,3-Dichlorobenzene	12.226	146	720	0.19	ug/L		79
81) 1,4-Dichlorobenzene	12.287	146	974	0.22	ug/L	#	70
82) n-Butylbenzene	12.476	91	781	0.17	ug/L		86
83) 1,2-Dichlorobenzene	12.616	146	615	0.16	ug/L		83
84) 1,2-Dibromo-3-Chloropr...	13.269	157	62	0.10	ug/L	#	15
85) Hexachlorobutadiene	13.811	223	70	0.14	ug/L	#	17
86) 1,2,4-Trichlorobenzene	13.860	180	239	0.12	ug/L	#	61
87) Naphthalene	14.189	128	494	0.98	ug/L		79
88) 1,2,3-Trichlorobenzene	14.372	180	236	0.12	ug/L		80

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042806.D
Acq On : 28 Apr 2020 4:16 pm
Operator : PS
Sample : 0D28059-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 14:38:18 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:40:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	130111	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	361683	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	152333	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	129856	53.45	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	427126	54.70	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	501453	52.79	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	126405	49.09	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	1133	0.47	ug/L		100
3) Chloromethane	1.978	50	1524	0.63	ug/L		93
4) Vinyl Chloride	2.100	62	1260	0.48	ug/L		84
5) Bromomethane	2.533	96	1137	0.69	ug/L		97
6) Chloroethane	2.710	64	872	0.66	ug/L		88
7) Trichlorofluoromethane	2.911	101	1409	0.42	ug/L		94
8) Ethanol	3.606	45	1862	31.37	ug/L		76
9) 1,1-Dichloroethene	3.569	61	1450	0.44	ug/L		95
10) Carbon Disulfide	3.569	76	1760	0.41	ug/L		98
11) Freon 113	3.643	101	969	0.46	ug/L		84
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.014	56	172	0.35	ug/L		80
14) Methylene Chloride	4.295	84	4387	1.86	ug/L		91
15) Acetone	4.386	43	2217	1.82	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	1351	0.44	ug/L		93
17) n-Hexane	4.575	86	75	0.27	ug/L	#	36
18) Methyl-tert-butyl-ether	4.649	73	2007	0.39	ug/L		91
19) tert-Butanol (TBA)	4.807	59	7948	22.62	ug/L	#	48
20) Diisopropyl ether (DIPE)	5.087	45	602	0.10	ug/L		94
21) 1,1-Dichloroethane	5.191	63	1856	0.46	ug/L		92
22) Acrylonitrile	0.000		0	N.D.	d		
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	5.484	59	425m	0.09	ug/L		
25) c-1,2-Dichloroethene	5.801	61	1211	0.41	ug/L		84
26) 2,2-Dichloropropane	5.904	77	753	0.44	ug/L	#	67
27) Bromochloromethane	6.014	49	1078	0.53	ug/L		83
28) Chloroform	6.112	83	1724	0.43	ug/L		87
29) Carbon Tetrachloride	6.240	117	619	0.29	ug/L		85
30) Tetrahydrofuran	6.295	42	390	0.35	ug/L		85
31) 1,1,1-Trichloroethane	6.313	97	1239	0.41	ug/L		94
33) 1,1-Dichloropropene	6.459	75	1041	0.38	ug/L		84
34) 2-Butanone (MEK)	6.490	43	1046	0.59	ug/L		79
35) Benzene	6.733	78	3614	0.40	ug/L		97
36) tert-Amyl methyl ether...	6.837	73	229	0.05	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	1349	0.41	ug/L		94
38) iso-Butyl Alcohol	7.032	43	1632	7.58	ug/L		74
40) Trichloroethene (TCE)	7.386	130	1209	0.44	ug/L		87
41) tert-Amyl ethyl ether ...	7.666	59	340	0.12	ug/L	#	62
42) Dibromomethane	7.861	93	686	0.44	ug/L		75
43) 1,2-Dichloropropane	7.971	63	1082	0.45	ug/L		89
44) Bromodichloromethane	8.050	83	1003	0.39	ug/L		86
46) 2-Chloroethyl Vinyl Ether	8.745	63	119	0.08	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	977	0.36	ug/L		87
49) Toluene	9.020	91	4633	0.44	ug/L		97

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:40:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

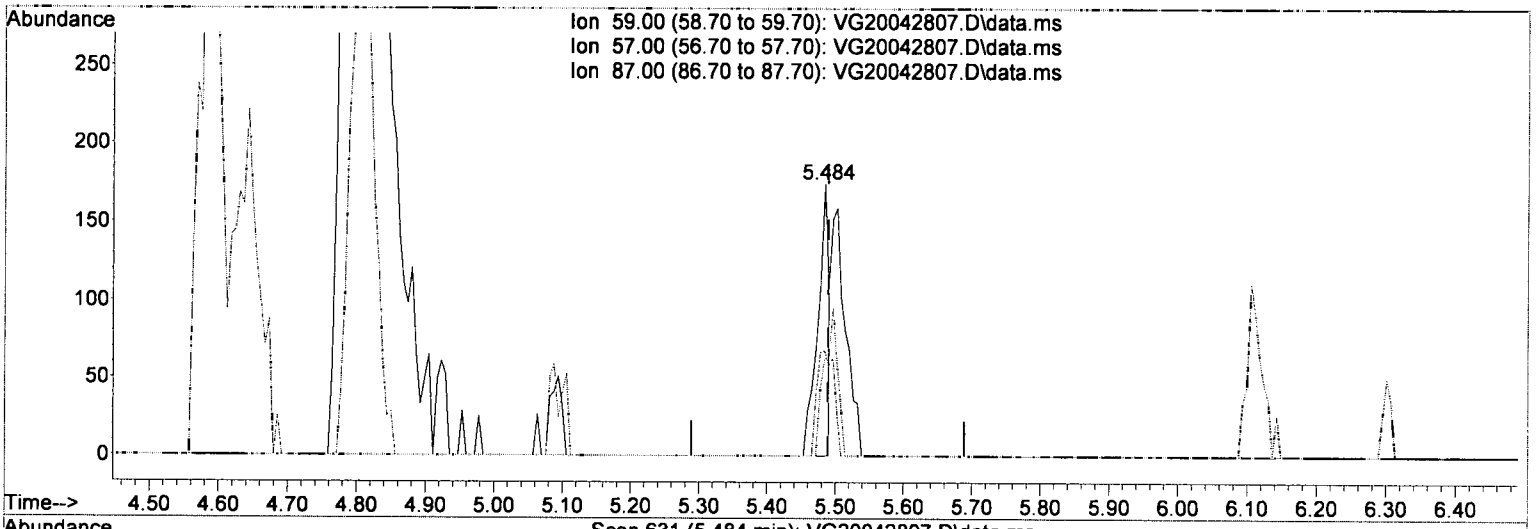
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	1014	0.37	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.428	43	2070	0.57	ug/L		83
52) t-1,3-Dichloropropene	9.459	75	712	0.58	ug/L		91
53) 1,1,2-Trichloroethane	9.611	97	1003	0.42	ug/L		94
54) Dibromochloromethane	9.769	129	627	0.44	ug/L		80
55) 1,3-Dichloropropane	9.861	76	1557	0.42	ug/L		93
56) 1,2-Dibromoethane (EDB)	9.989	107	856	0.35	ug/L		90
57) 2-Hexanone	10.202	43	1203m	0.44	ug/L		
58) Chlorobenzene	10.446	112	2815	0.40	ug/L		75
59) Ethylbenzene	10.471	91	4039	0.37	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	700	0.34	ug/L	#	60
61) m,p-Xylenes (2)	10.599	91	4861	0.65	ug/L		95
62) o-Xylene	10.952	91	2184	0.34	ug/L		96
63) Styrene	11.001	104	1543	0.57	ug/L		87
64) Bromoform	11.019	173	411	0.57	ug/L		83
65) Isopropylbenzene	11.202	105	2263	0.52	ug/L		94
68) Bromobenzene	11.513	156	1011	0.38	ug/L		90
69) n-Propylbenzene	11.525	91	3735	0.40	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	1213	0.46	ug/L		92
71) 2-Chlorotoluene	11.653	126	753	0.37	ug/L	#	81
72) 1,3,5-Trimethylbenzene	11.672	105	2046	0.34	ug/L		97
73) 1,2,3-Trichloropropane	11.690	110	379	0.41	ug/L	#	74
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	11.781	91	2118	0.37	ug/L		95
76) tert-Butylbenzene	11.909	91	1103	0.34	ug/L		82
77) 1,2,4-Trimethylbenzene	11.970	105	1738	0.29	ug/L		99
78) sec-Butylbenzene	12.050	105	2369	0.35	ug/L		93
79) 4-Isopropyltoluene	12.147	119	1664	0.42	ug/L		82
80) 1,3-Dichlorobenzene	12.226	146	1456	0.36	ug/L		92
81) 1,4-Dichlorobenzene	12.287	146	1856	0.41	ug/L	#	69
82) n-Butylbenzene	12.470	91	1571	0.33	ug/L		96
83) 1,2-Dichlorobenzene	12.616	146	1407	0.36	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	156	0.25	ug/L	#	55
85) Hexachlorobutadiene	13.811	223	185	0.35	ug/L	#	72
86) 1,2,4-Trichlorobenzene	13.860	180	554	0.27	ug/L		96
87) Naphthalene	14.189	128	1138	1.07	ug/L		79
88) 1,2,3-Trichlorobenzene	14.378	180	532	0.26	ug/L		77

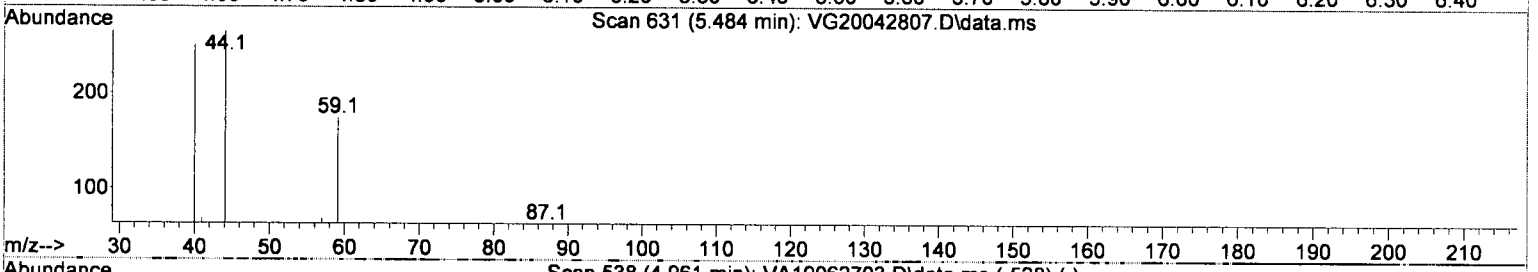
(#) = qualifier out of range (m) = manual integration (+) = signals summed

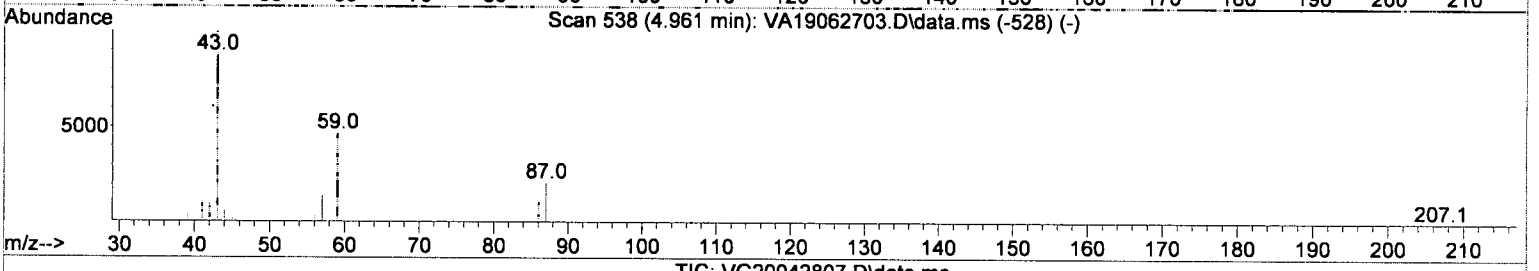
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(24) Ethyl-tert-butyl ether (ETBE)

5.484min (-0.005) 0.04 ug/L

response 194

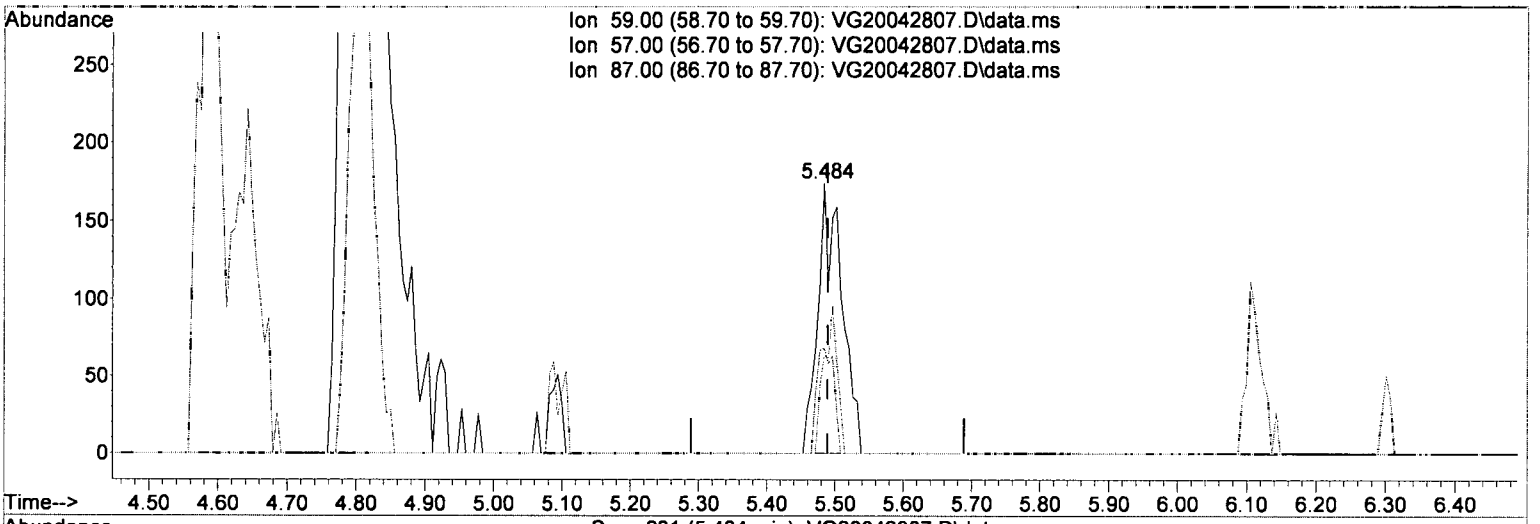
Ion	Exp%	Act%
59.00	100.00	100.00
57.00	30.40	39.08
87.00	42.80	36.21
0.00	0.00	0.00

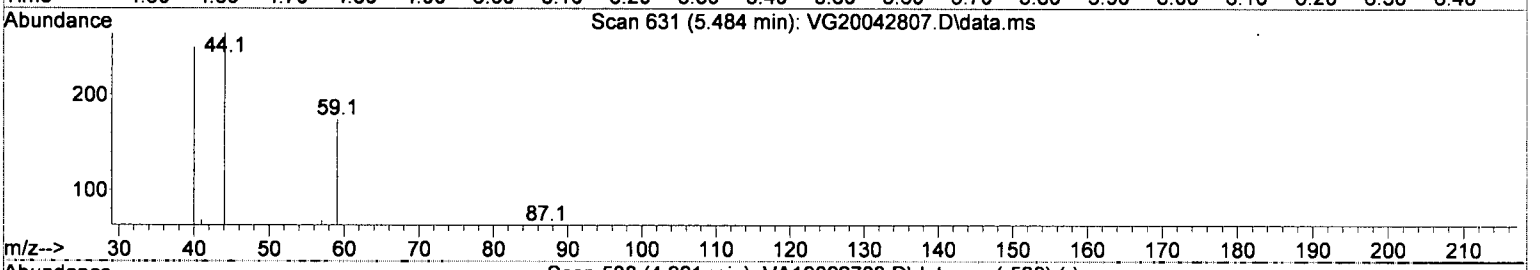
ME 4/30/20 mf

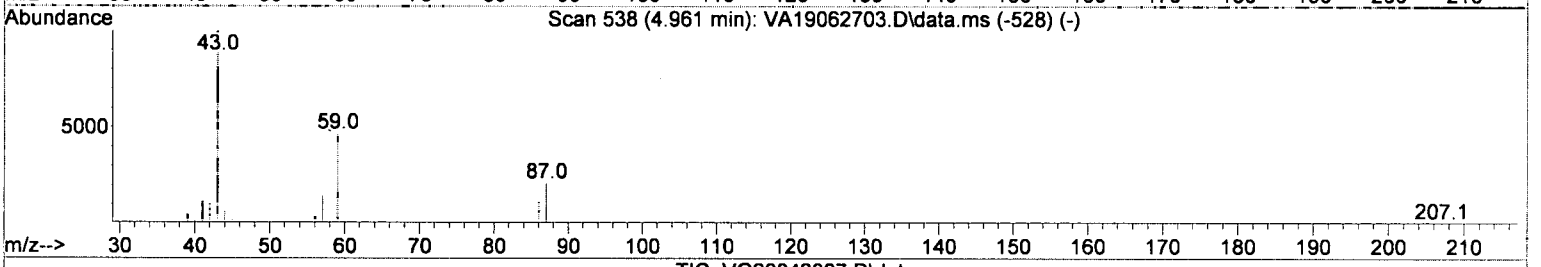
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(24) Ethyl-tert-butyl ether (ETBE)

5.484min (-0.005) 0.09 ug/L m

response 425

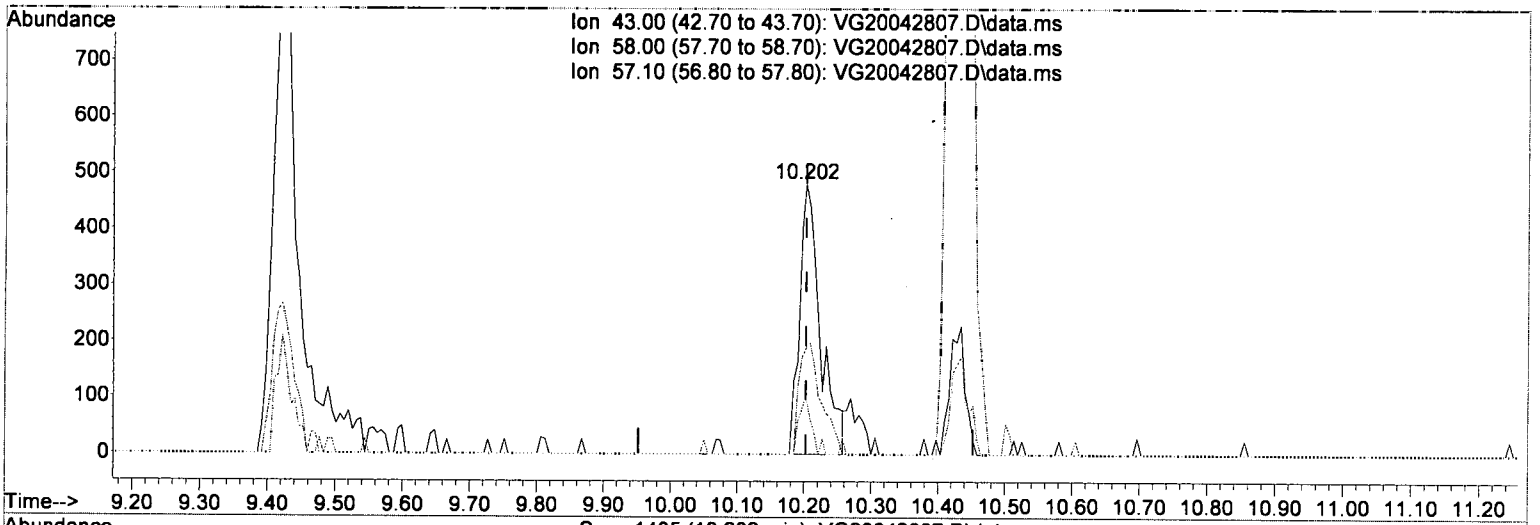
Ion	Exp%	Act%
59.00	100.00	100.00
57.00	30.40	39.08
87.00	42.80	36.21
0.00	0.00	0.00

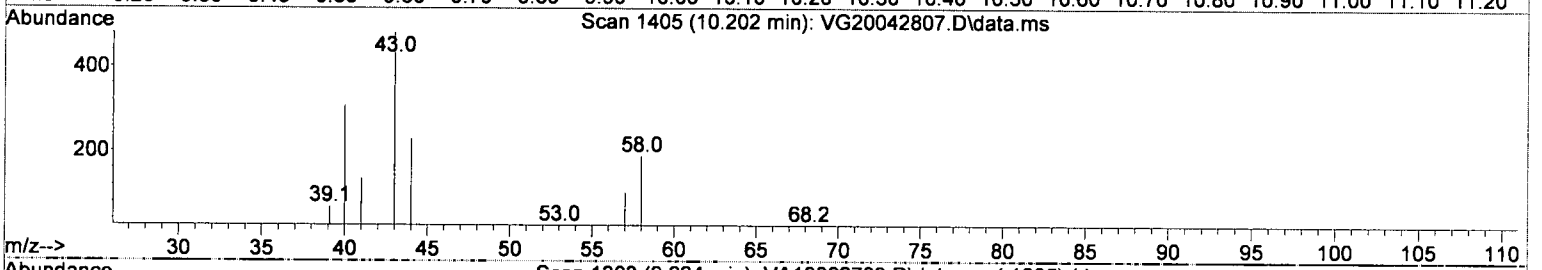
4/30/2020

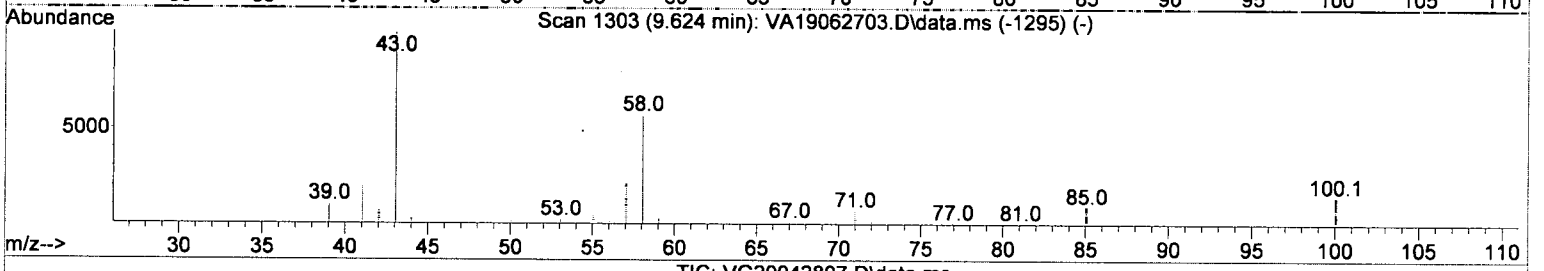
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(57) 2-Hexanone

10.202min (+ 0.000) 0.38 ug/L

response 1046

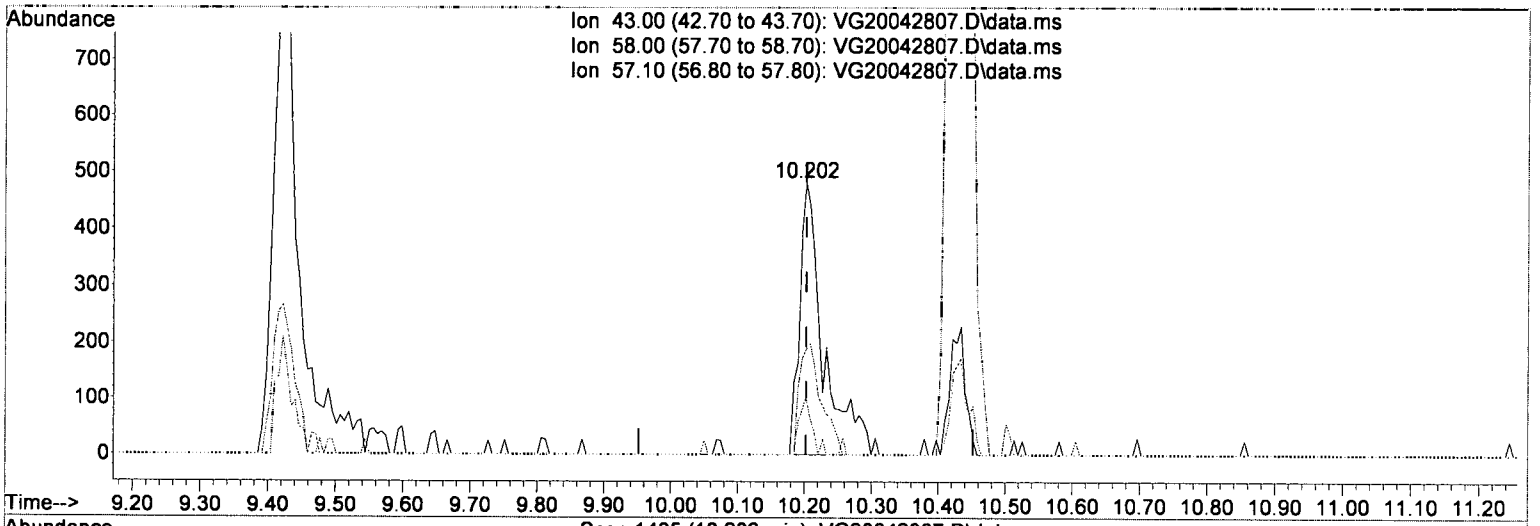
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	55.80	39.29
57.10	18.50	21.41
0.00	0.00	0.00

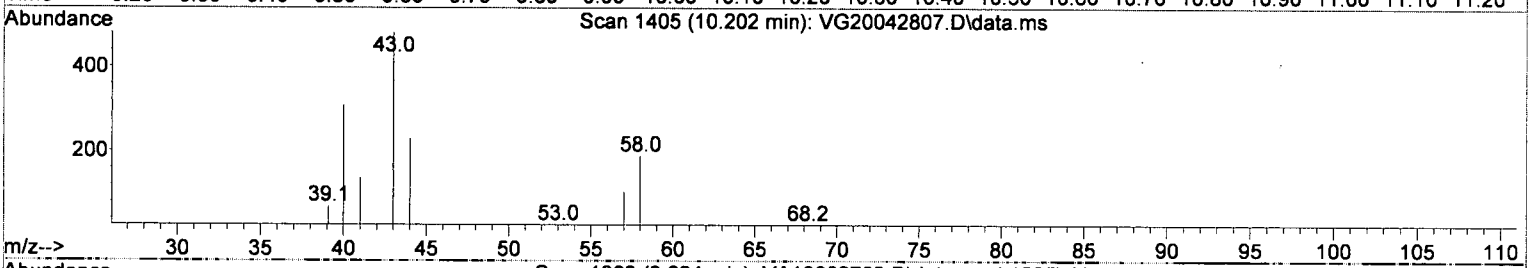
ML 4/30/2020

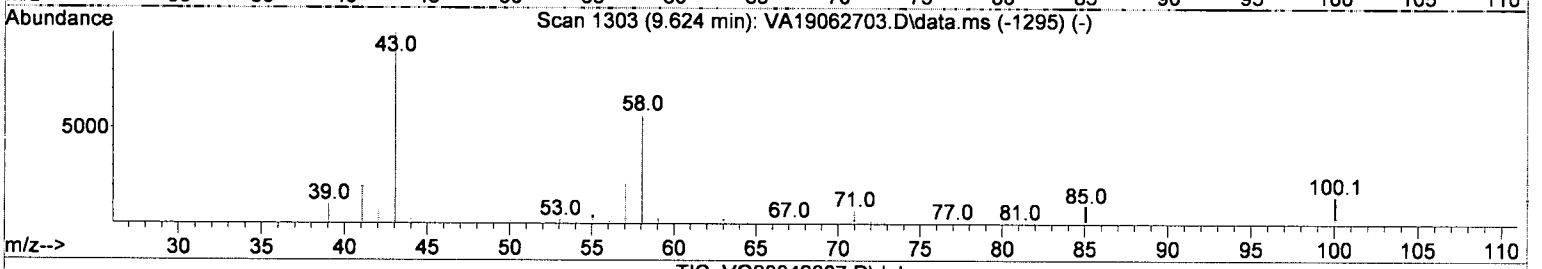
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration







TIC: VG20042807.D\data.ms

(57) 2-Hexanone

10.202min (+ 0.000) 0.44 ug/L m

response 1203

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	55.80	39.29
57.10	18.50	21.41
0.00	0.00	0.00

4/30/20 MJ

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/20 mf

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	130111	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	361683	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	152333	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	129856	53.45	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	427126	54.70	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	501453	52.79	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	126405	49.09	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	1133	0.47	ug/L		100
3) Chloromethane	1.978	50	1524	0.63	ug/L		93
4) Vinyl Chloride	2.100	62	1260	0.48	ug/L		84
5) Bromomethane	2.533	96	1137	0.69	ug/L		97
6) Chloroethane	2.710	64	872	0.66	ug/L		88
7) Trichlorofluoromethane	2.911	101	1409	0.42	ug/L		94
8) Ethanol	3.606	45	1862	31.37	ug/L		76
9) 1,1-Dichloroethene	3.569	61	1450	0.44	ug/L		95
10) Carbon Disulfide	3.569	76	1760	0.41	ug/L		98
11) Freon 113	3.643	101	969	0.46	ug/L		84
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	4.014	56	172	0.35	ug/L		80
14) Methylene Chloride	4.295	84	4387	1.86	ug/L		91
15) Acetone	4.386	43	2217	1.82	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	1351	0.44	ug/L		93
17) n-Hexane	4.575	86	75	0.27	ug/L	#	36
18) Methyl-tert-butyl-ether	4.649	73	2007	0.39	ug/L		91
19) tert-Butanol (TBA)	4.807	59	7948	22.62	ug/L	#	48
20) Diisopropyl ether (DIPE)	5.087	45	602	0.10	ug/L		94
21) 1,1-Dichloroethane	5.191	63	1856	0.46	ug/L		92
22) Acrylonitrile	5.240	53	10	0.01	ug/L	#	14
23) Vinyl Acetate	5.490	43	10	0.61	ug/L	#	1
24) Ethyl-tert-butyl ether...	5.484	59	194	0.04	ug/L		87
25) c-1,2-Dichloroethene	5.801	61	1211	0.41	ug/L		84
26) 2,2-Dichloropropane	5.904	77	753	0.44	ug/L	#	67
27) Bromochloromethane	6.014	49	1078	0.53	ug/L		83
28) Chloroform	6.112	83	1724	0.43	ug/L		87
29) Carbon Tetrachloride	6.240	117	619	0.29	ug/L		85
30) Tetrahydrofuran	6.295	42	390	0.35	ug/L		85
31) 1,1,1-Trichloroethane	6.313	97	1239	0.41	ug/L		94
33) 1,1-Dichloropropene	6.459	75	1041	0.38	ug/L		84
34) 2-Butanone (MEK)	6.490	43	1046	0.59	ug/L		79
35) Benzene	6.733	78	3614	0.40	ug/L		97
36) tert-Amyl methyl ether...	6.837	73	229	0.05	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	1349	0.41	ug/L		94
38) iso-Butyl Alcohol	7.032	43	1632	7.58	ug/L		74
40) Trichloroethene (TCE)	7.386	130	1209	0.44	ug/L		87
41) tert-Amyl ethyl ether ...	7.666	59	340	0.12	ug/L	#	62
42) Dibromomethane	7.861	93	686	0.44	ug/L		75
43) 1,2-Dichloropropane	7.971	63	1082	0.45	ug/L		89
44) Bromodichloromethane	8.050	83	1003	0.39	ug/L		86
46) 2-Chloroethyl Vinyl Ether	8.745	63	119	0.08	ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	977	0.36	ug/L		87
49) Toluene	9.020	91	4133	0.44	ug/L		94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:27:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

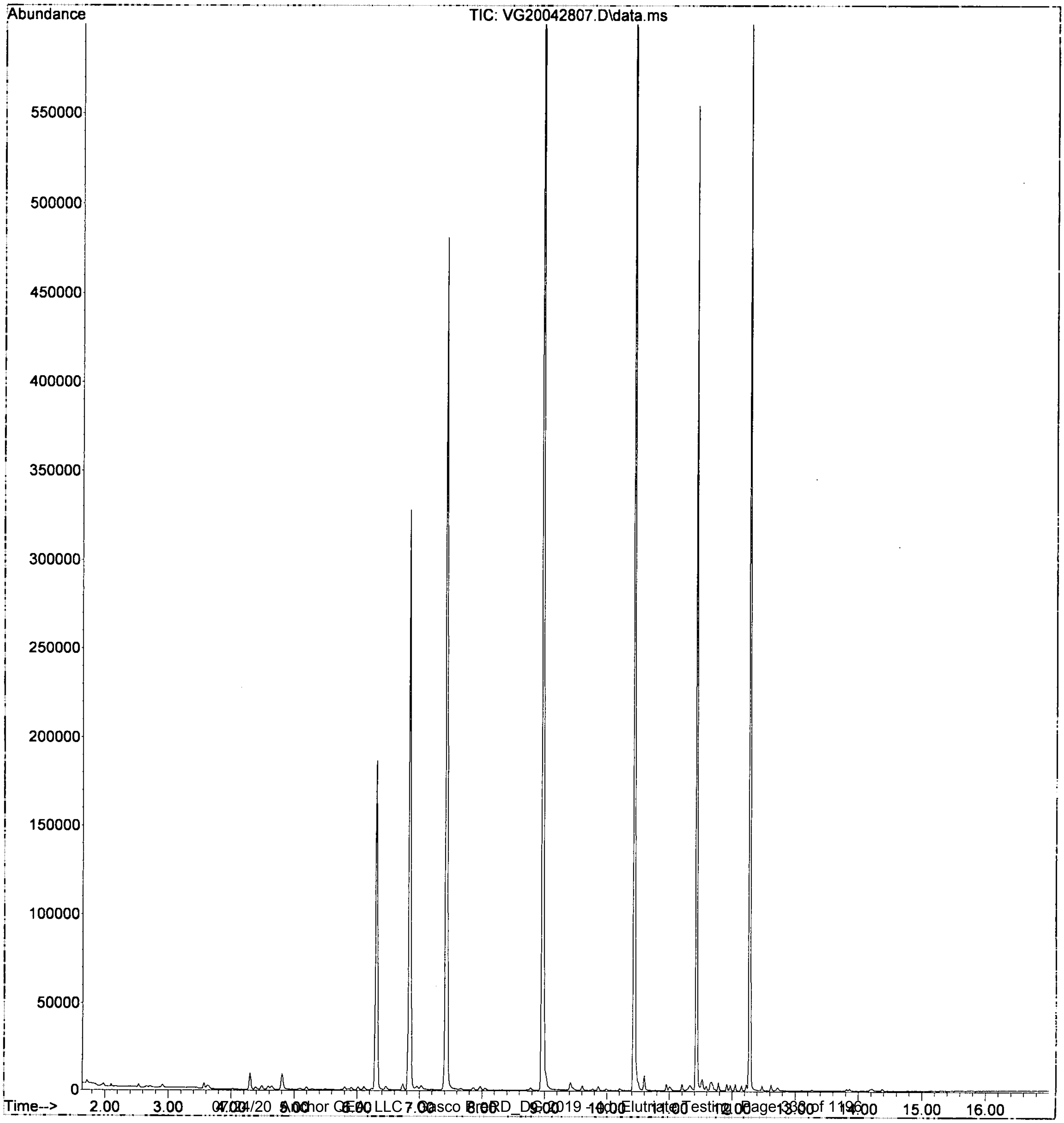
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	1014	0.37	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.428	43	2070	0.57	ug/L		83
52) t-1,3-Dichloropropene	9.459	75	712	0.58	ug/L		91
53) 1,1,2-Trichloroethane	9.611	97	1003	0.42	ug/L		94
54) Dibromochloromethane	9.769	129	627	0.44	ug/L		80
55) 1,3-Dichloropropane	9.861	76	1557	0.42	ug/L		93
56) 1,2-Dibromoethane (EDB)	9.989	107	856	0.35	ug/L		90
57) 2-Hexanone	10.202	43	1046	0.38	ug/L		81
58) Chlorobenzene	10.446	112	2815	0.40	ug/L		75
59) Ethylbenzene	10.471	91	4039	0.37	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	700	0.34	ug/L	#	60
61) m,p-Xylenes (2)	10.599	91	4861	0.65	ug/L		95
62) o-Xylene	10.952	91	2184	0.34	ug/L		96
63) Styrene	11.001	104	1543	0.57	ug/L		87
64) Bromoform	11.019	173	411	0.57	ug/L		83
65) Isopropylbenzene	11.202	105	2263	0.52	ug/L		94
68) Bromobenzene	11.513	156	1011	0.38	ug/L		90
69) n-Propylbenzene	11.525	91	3735	0.40	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	1213	0.46	ug/L		92
71) 2-Chlorotoluene	11.653	126	753	0.37	ug/L	#	81
72) 1,3,5-Trimethylbenzene	11.672	105	2046	0.34	ug/L		97
73) 1,2,3-Trichloropropane	11.690	110	379	0.41	ug/L	#	74
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	11.781	91	2118	0.37	ug/L		95
76) tert-Butylbenzene	11.909	91	1103	0.34	ug/L		82
77) 1,2,4-Trimethylbenzene	11.970	105	1738	0.29	ug/L		99
78) sec-Butylbenzene	12.050	105	2369	0.35	ug/L		93
79) 4-Isopropyltoluene	12.147	119	1664	0.42	ug/L		82
80) 1,3-Dichlorobenzene	12.226	146	1456	0.36	ug/L		92
81) 1,4-Dichlorobenzene	12.287	146	1856	0.41	ug/L	#	69
82) n-Butylbenzene	12.470	91	1571	0.33	ug/L		96
83) 1,2-Dichlorobenzene	12.616	146	1407	0.36	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	156	0.25	ug/L	#	55
85) Hexachlorobutadiene	13.811	223	185	0.35	ug/L	#	72
86) 1,2,4-Trichlorobenzene	13.860	180	554	0.27	ug/L		96
87) Naphthalene	14.189	128	1138	1.07	ug/L		79
88) 1,2,3-Trichlorobenzene	14.378	180	532	0.26	ug/L		77

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042807.D
Acq On : 28 Apr 2020 4:43 pm
Operator : PS
Sample : 0D28059-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 14:40:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:44:04 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139239	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	384850	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	167927	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	138115	53.13	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	455553	54.51	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	534043	52.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	138403	48.76	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	2775	1.07	ug/L		93
3) Chloromethane	1.978	50	3403	1.31	ug/L		97
4) Vinyl Chloride	2.100	62	3373	1.19	ug/L		98
5) Bromomethane	2.533	96	2726	1.54	ug/L		90
6) Chloroethane	2.716	64	1901	1.59	ug/L		98
7) Trichlorofluoromethane	2.911	101	3593	1.00	ug/L		91
8) Ethanol	3.612	45	4341	68.35	ug/L		90
9) 1,1-Dichloroethene	3.563	61	3806	1.07	ug/L		89
10) Carbon Disulfide	3.569	76	4285	0.93	ug/L		99
11) Freon 113	3.636	101	2465	1.09	ug/L		88
12) Iodomethane	0.000		0	N.D.	d		
13) Acrolein	4.014	56	625	1.18	ug/L		96
14) Methylene Chloride	4.295	84	8586	3.40	ug/L		97
15) Acetone	4.386	43	3885	2.97	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	3488	1.06	ug/L		95
17) n-Hexane	4.581	86	247	0.84	ug/L	#	32
18) Methyl-tert-butyl-ether	4.642	73	5292	0.96	ug/L		99
19) tert-Butanol (TBA)	4.801	59	21639	57.55	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	1686	0.27	ug/L		87
21) 1,1-Dichloroethane	5.191	63	5006	1.15	ug/L		96
22) Acrylonitrile	5.276	53	1352	1.02	ug/L		75
23) Vinyl Acetate	5.520	43	2053	1.16	ug/L		85
24) Ethyl-tert-butyl ether...	5.484	59	1189	0.25	ug/L		97
25) c-1,2-Dichloroethene	5.801	61	3375	1.07	ug/L		97
26) 2,2-Dichloropropane	5.904	77	1967	1.06	ug/L	#	66
27) Bromochloromethane	6.014	49	2726	1.26	ug/L		92
28) Chloroform	6.111	83	4654	1.08	ug/L		95
29) Carbon Tetrachloride	6.233	117	1929	0.84	ug/L		98
30) Tetrahydrofuran	6.294	42	1160	0.97	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	3173	0.99	ug/L		85
33) 1,1-Dichloropropene	6.453	75	2829	0.96	ug/L		86
34) 2-Butanone (MEK)	6.465	43	3339	1.76	ug/L		95
35) Benzene	6.727	78	10086	1.05	ug/L		98
36) tert-Amyl methyl ether...	6.873	73	1431	0.31	ug/L	#	40
37) 1,2-Dichloroethane (EDC)	6.959	62	3642	1.03	ug/L		99
38) iso-Butyl Alcohol	7.020	43	4875	21.16	ug/L		93
40) Trichloroethene (TCE)	7.379	130	2892	0.98	ug/L		94
41) tert-Amyl ethyl ether ...	7.666	59	800	0.27	ug/L		87
42) Dibromomethane	7.855	93	1817	1.10	ug/L	#	79
43) 1,2-Dichloropropane	7.971	63	2853	1.11	ug/L		90
44) Bromodichloromethane	8.056	83	2789	1.01	ug/L		93
46) 2-Chloroethyl Vinyl Ether	8.721	63	712	0.47	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	2416	0.83	ug/L		82
49) Toluene	9.048	92	21997	1.04	ug/L		98

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:44:04 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	2420	0.84	ug/L		82
51) 4-Methyl-2-Pentanone (...	9.416	43	5821	1.51	ug/L		93
52) t-1,3-Dichloropropene	9.452	75	2195	1.06	ug/L		99
53) 1,1,2-Trichloroethane	9.605	97	2686	1.05	ug/L		97
54) Dibromochloromethane	9.769	129	1804	0.89	ug/L		90
55) 1,3-Dichloropropane	9.861	76	4282	1.08	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.989	107	2229	0.86	ug/L		99
57) 2-Hexanone	10.196	43	3387	1.16	ug/L		92
58) Chlorobenzene	10.446	112	7377	0.98	ug/L		92
59) Ethylbenzene	10.470	91	11594	0.99	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	1901	0.87	ug/L	#	76
61) m,p-Xylenes (2)	10.592	91	14033	1.66	ug/L		94
62) o-Xylene	10.952	91	6116	0.77	ug/L		95
63) Styrene	10.995	104	4390	0.95	ug/L		97
64) Bromoform	11.019	173	1185	0.97	ug/L		88
65) Isopropylbenzene	11.202	105	7045	0.96	ug/L		99
68) Bromobenzene	11.513	156	2856	0.98	ug/L		83
69) n-Propylbenzene	11.525	91	9809	0.96	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	3424	1.19	ug/L		99
71) 2-Chlorotoluene	11.653	126	2065	0.91	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	5426	0.81	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	1181	1.16	ug/L		97
74) t-1,4-Dichloro-2-butene	11.720	88	228	1.87	ug/L	#	41
75) 4-Chlorotoluene	11.781	91	5937	0.93	ug/L		94
76) tert-Butylbenzene	11.915	91	3171	0.88	ug/L		95
77) 1,2,4-Trimethylbenzene	11.970	105	5139	0.78	ug/L		94
78) sec-Butylbenzene	12.049	105	6597	0.89	ug/L		94
79) 4-Isopropyltoluene	12.147	119	4567	0.84	ug/L		96
80) 1,3-Dichlorobenzene	12.220	146	4061	0.92	ug/L		94
81) 1,4-Dichlorobenzene	12.287	146	4946	1.00	ug/L		88
82) n-Butylbenzene	12.470	91	4814	0.92	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	3752	0.86	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	13.269	157	408	0.60	ug/L	#	33
85) Hexachlorobutadiene	13.811	223	477	0.82	ug/L		98
86) 1,2,4-Trichlorobenzene	13.860	180	1599	0.70	ug/L		95
87) Naphthalene	14.183	128	3600	1.38	ug/L		97
88) 1,2,3-Trichlorobenzene	14.378	180	1517	0.67	ug/L		96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:27:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

04/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139239	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	384850	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	167927	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	138115	53.13	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	455553	54.51	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	534043	52.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	138403	48.76	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	2775	1.07	ug/L		93
3) Chloromethane	1.978	50	3403	1.31	ug/L		97
4) Vinyl Chloride	2.100	62	3373	1.19	ug/L		98
5) Bromomethane	2.533	96	2726	1.54	ug/L		90
6) Chloroethane	2.716	64	1901	1.59	ug/L		98
7) Trichlorofluoromethane	2.911	101	3593	1.00	ug/L		91
8) Ethanol	3.612	45	4341	68.35	ug/L		90
9) 1,1-Dichloroethene	3.563	61	3806	1.07	ug/L		89
10) Carbon Disulfide	3.569	76	4285	0.93	ug/L		99
11) Freon 113	3.636	101	2465	1.09	ug/L		88
12) Iodomethane	3.728	142	95	4.21	ug/L	#	47
13) Acrolein	4.014	56	625	1.18	ug/L		96
14) Methylene Chloride	4.295	84	8586	3.40	ug/L		97
15) Acetone	4.386	43	3885	2.97	ug/L		100
16) t-1,2-Dichloroethene	4.490	61	3488	1.06	ug/L		95
17) n-Hexane	4.581	86	247	0.84	ug/L	#	32
18) Methyl-tert-butyl-ether	4.642	73	5292	0.96	ug/L		99
19) tert-Butanol (TBA)	4.801	59	21639	57.55	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	1686	0.27	ug/L		87
21) 1,1-Dichloroethane	5.191	63	5006	1.15	ug/L		96
22) Acrylonitrile	5.276	53	1352	1.02	ug/L		75
23) Vinyl Acetate	5.520	43	2053	1.16	ug/L		85
24) Ethyl-tert-butyl ether...	5.484	59	1189	0.25	ug/L		97
25) c-1,2-Dichloroethene	5.801	61	3375	1.07	ug/L		97
26) 2,2-Dichloropropane	5.904	77	1967	1.06	ug/L	#	66
27) Bromochloromethane	6.014	49	2726	1.26	ug/L		92
28) Chloroform	6.111	83	4654	1.08	ug/L		95
29) Carbon Tetrachloride	6.233	117	1929	0.84	ug/L		98
30) Tetrahydrofuran	6.294	42	1160	0.97	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	3173	0.99	ug/L		85
33) 1,1-Dichloropropene	6.453	75	2829	0.96	ug/L		86
34) 2-Butanone (MEK)	6.465	43	3339	1.76	ug/L		95
35) Benzene	6.727	78	10086	1.05	ug/L		98
36) tert-Amyl methyl ether...	6.873	73	1431	0.31	ug/L	#	40
37) 1,2-Dichloroethane (EDC)	6.959	62	3642	1.03	ug/L		99
38) iso-Butyl Alcohol	7.020	43	4875	21.16	ug/L		93
40) Trichloroethene (TCE)	7.379	130	2892	0.98	ug/L		94
41) tert-Amyl ethyl ether ...	7.666	59	800	0.27	ug/L		87
42) Dibromomethane	7.855	93	1817	1.10	ug/L	#	79
43) 1,2-Dichloropropane	7.971	63	2853	1.11	ug/L		90
44) Bromodichloromethane	8.056	83	2789	1.01	ug/L		93
46) 2-Chloroethyl Vinyl Ether	8.721	63	712	0.47	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	2416	0.83	ug/L		82
49) Toluene	9.018	92	21997	1.00	ug/L		96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:27:23 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

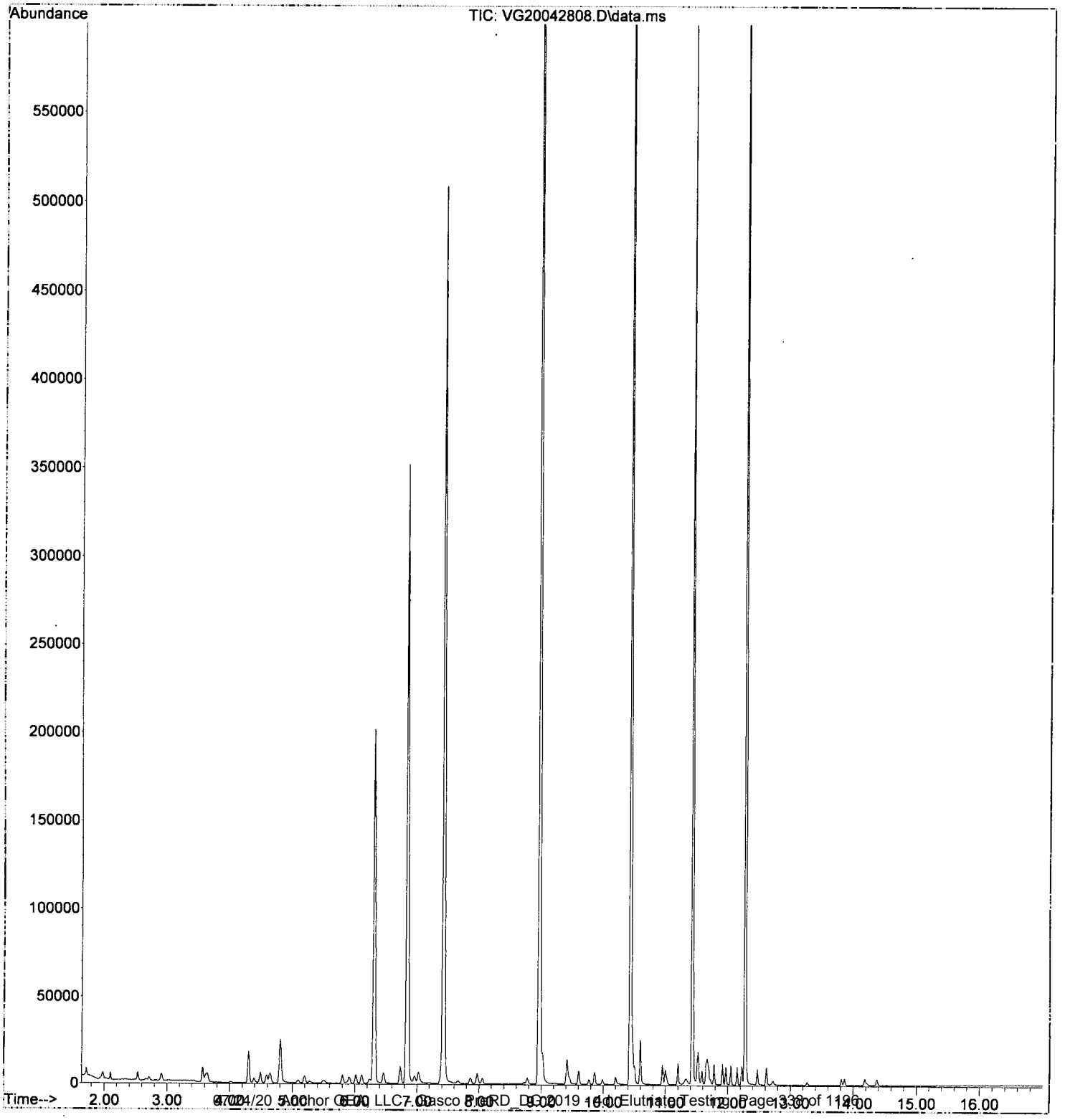
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	2420	0.84	ug/L		82
51) 4-Methyl-2-Pentanone (...	9.416	43	5821	1.51	ug/L		93
52) t-1,3-Dichloropropene	9.452	75	2195	1.06	ug/L		99
53) 1,1,2-Trichloroethane	9.605	97	2686	1.05	ug/L		97
54) Dibromochloromethane	9.769	129	1804	0.89	ug/L		90
55) 1,3-Dichloropropane	9.861	76	4282	1.08	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.989	107	2229	0.86	ug/L		99
57) 2-Hexanone	10.196	43	3387	1.16	ug/L		92
58) Chlorobenzene	10.446	112	7377	0.98	ug/L		92
59) Ethylbenzene	10.470	91	11594	0.99	ug/L		97
60) 1,1,1,2-Tetrachloroethane	10.501	131	1901	0.87	ug/L	#	76
61) m,p-Xylenes (2)	10.592	91	14033	1.66	ug/L		94
62) o-Xylene	10.952	91	6116	0.77	ug/L		95
63) Styrene	10.995	104	4390	0.95	ug/L		97
64) Bromoform	11.019	173	1185	0.97	ug/L		88
65) Isopropylbenzene	11.202	105	7045	0.96	ug/L		99
68) Bromobenzene	11.513	156	2856	0.98	ug/L		83
69) n-Propylbenzene	11.525	91	9809	0.96	ug/L		91
70) 1,1,2,2-Tetrachloroethane	11.586	83	3424	1.19	ug/L		99
71) 2-Chlorotoluene	11.653	126	2065	0.91	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	5426	0.81	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	1181	1.16	ug/L		97
74) t-1,4-Dichloro-2-butene	11.720	88	228	1.87	ug/L	#	41
75) 4-Chlorotoluene	11.781	91	5937	0.93	ug/L		94
76) tert-Butylbenzene	11.915	91	3171	0.88	ug/L		95
77) 1,2,4-Trimethylbenzene	11.970	105	5139	0.78	ug/L		94
78) sec-Butylbenzene	12.049	105	6597	0.89	ug/L		94
79) 4-Isopropyltoluene	12.147	119	4567	0.84	ug/L		96
80) 1,3-Dichlorobenzene	12.220	146	4061	0.92	ug/L		94
81) 1,4-Dichlorobenzene	12.287	146	4946	1.00	ug/L		88
82) n-Butylbenzene	12.470	91	4814	0.92	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	3752	0.86	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	13.269	157	408	0.50	ug/L	#	33
85) Hexachlorobutadiene	13.811	223	477	0.82	ug/L		98
86) 1,2,4-Trichlorobenzene	13.860	180	1599	0.70	ug/L		95
87) Naphthalene	14.183	128	3600	1.38	ug/L		97
88) 1,2,3-Trichlorobenzene	14.378	180	1517	0.67	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042808.D
Acq On : 28 Apr 2020 5:10 pm
Operator : PS
Sample : 0D28059-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 14:44:04 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	127296	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	349304	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	151641	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	125797	52.93	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	410702	53.76	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	486856	53.06	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	124756	48.67	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	5002	2.12	ug/L		99
3) Chloromethane	1.978	50	6051	2.54	ug/L		96
4) Vinyl Chloride	2.100	62	5945	2.30	ug/L		97
5) Bromomethane	2.533	96	4637	2.86	ug/L		89
6) Chloroethane	2.716	64	3098	3.03	ug/L		93
7) Trichlorofluoromethane	2.911	101	6259	1.91	ug/L		94
8) Ethanol	3.612	45	8126	139.94	ug/L		83
9) 1,1-Dichloroethene	3.569	61	6691	2.06	ug/L		93
10) Carbon Disulfide	3.569	76	7686	1.82	ug/L		99
11) Freon 113	3.636	101	4428	2.15	ug/L		87
12) Iodomethane	3.740	142	271	4.39	ug/L	#	47
13) Acrolein	4.014	56	1033	2.14	ug/L		92
14) Methylene Chloride	4.295	84	10556	4.57	ug/L		96
15) Acetone	4.380	43	6410	5.37	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	6491	2.16	ug/L		87
17) n-Hexane	4.587	86	496	1.85	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	9858	1.96	ug/L		93
19) tert-Butanol (TBA)	4.801	59	42680	124.16	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	2905	0.50	ug/L		88
21) 1,1-Dichloroethane	5.191	63	8898	2.24	ug/L		99
22) Acrylonitrile	5.270	53	2442	2.01	ug/L		98
23) Vinyl Acetate	5.514	43	4151	1.83	ug/L		87
24) Ethyl-tert-butyl ether...	5.496	59	2194	0.50	ug/L		94
25) c-1,2-Dichloroethene	5.801	61	6218	2.17	ug/L		90
26) 2,2-Dichloropropane	5.910	77	3460	2.04	ug/L	#	64
27) Bromochloromethane	6.014	49	4897	2.47	ug/L		82
28) Chloroform	6.112	83	8523	2.16	ug/L		96
29) Carbon Tetrachloride	6.233	117	3781	1.80	ug/L		99
30) Tetrahydrofuran	6.294	42	2041	1.86	ug/L		89
31) 1,1,1-Trichloroethane	6.313	97	5630	1.92	ug/L		91
33) 1,1-Dichloropropene	6.459	75	4996	1.85	ug/L		97
34) 2-Butanone (MEK)	6.459	43	6424	3.71	ug/L		99
35) Benzene	6.727	78	18474	2.10	ug/L		98
36) tert-Amyl methyl ether...	6.874	73	2276	0.54	ug/L	#	52
37) 1,2-Dichloroethane (EDC)	6.959	62	6699	2.08	ug/L		95
38) iso-Butyl Alcohol	7.020	43	9183	43.60	ug/L		93
40) Trichloroethene (TCE)	7.380	130	5135	1.91	ug/L		95
41) tert-Amyl ethyl ether ...	7.666	59	1547	0.57	ug/L		92
42) Dibromomethane	7.855	93	3205	2.11	ug/L		87
43) 1,2-Dichloropropane	7.971	63	5295	2.26	ug/L		98
44) Bromodichloromethane	8.050	83	4745	1.87	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.721	63	1396	1.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	4719	1.79	ug/L		98
49) Toluene	9.019	91	20457	2.02	ug/L		95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	4099	1.56	ug/L		86
51) 4-Methyl-2-Pentanone (...	9.416	43	11635	3.31	ug/L		97
52) t-1,3-Dichloropropene	9.452	75	3895	1.75	ug/L		96
53) 1,1,2-Trichloroethane	9.605	97	4815	2.07	ug/L		95
54) Dibromochloromethane	9.769	129	3292	1.62	ug/L		96
55) 1,3-Dichloropropane	9.861	76	7446	2.07	ug/L		96
56) 1,2-Dibromoethane (EDB)	9.983	107	4307	1.84	ug/L		90
57) 2-Hexanone	10.190	43	7344	2.77	ug/L		91
58) Chlorobenzene	10.446	112	13084	1.92	ug/L		90
59) Ethylbenzene	10.470	91	20551	1.94	ug/L		96
60) 1,1,1,2-Tetrachloroethane	10.501	131	3453	1.74	ug/L		90
61) m,p-Xylenes (2)	10.592	91	25600	3.28	ug/L		96
62) o-Xylene	10.946	91	11482	1.52	ug/L		96
63) Styrene	10.995	104	8265	1.60	ug/L		96
64) Bromoform	11.019	173	2032	1.52	ug/L		89
65) Isopropylbenzene	11.202	105	12996	1.66	ug/L		96
68) Bromobenzene	11.513	156	4698	1.79	ug/L	#	78
69) n-Propylbenzene	11.525	91	17637	1.91	ug/L		94
70) 1,1,2,2-Tetrachloroethane	11.580	83	5938	2.29	ug/L		90
71) 2-Chlorotoluene	11.653	126	3818	1.87	ug/L		98
72) 1,3,5-Trimethylbenzene	11.671	105	10389	1.73	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	1959	2.14	ug/L	#	71
74) t-1,4-Dichloro-2-butene	11.720	88	427	2.58	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	11046	1.92	ug/L		93
76) tert-Butylbenzene	11.915	91	5969	1.84	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	9775	1.64	ug/L		95
78) sec-Butylbenzene	12.043	105	12245	1.83	ug/L		92
79) 4-Isopropyltoluene	12.147	119	8900	1.65	ug/L		95
80) 1,3-Dichlorobenzene	12.220	146	7077	1.78	ug/L		96
81) 1,4-Dichlorobenzene	12.287	146	8207	1.84	ug/L		89
82) n-Butylbenzene	12.470	91	8803	1.85	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	7179	1.83	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	855	1.40	ug/L	#	62
85) Hexachlorobutadiene	13.811	223	894	1.71	ug/L		93
86) 1,2,4-Trichlorobenzene	13.860	180	2821	1.36	ug/L		93
87) Naphthalene	14.177	128	6717	1.88	ug/L		95
88) 1,2,3-Trichlorobenzene	14.372	180	2840	1.38	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	127296	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	349304	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	151641	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	125797	52.98	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	410702	53.76	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	486856	53.06	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	124756	48.67	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	5002	2.12	ug/L		99
3) Chloromethane	1.978	50	6051	2.54	ug/L		96
4) Vinyl Chloride	2.100	62	5945	2.30	ug/L		97
5) Bromomethane	2.533	96	4637	2.86	ug/L		89
6) Chloroethane	2.716	64	3098	3.03	ug/L		93
7) Trichlorofluoromethane	2.911	101	6259	1.91	ug/L		94
8) Ethanol	3.612	45	8126	139.94	ug/L		83
9) 1,1-Dichloroethene	3.569	61	6691	2.06	ug/L		93
10) Carbon Disulfide	3.569	76	7686	1.82	ug/L		99
11) Freon 113	3.636	101	4428	2.15	ug/L		87
12) Iodomethane	3.740	142	271	4.39	ug/L	#	47
13) Acrolein	4.014	56	1033	2.14	ug/L		92
14) Methylene Chloride	4.295	84	10556	4.57	ug/L		96
15) Acetone	4.380	43	6410	5.37	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	6491	2.16	ug/L		87
17) n-Hexane	4.587	86	496	1.85	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	9858	1.96	ug/L		93
19) tert-Butanol (TBA)	4.801	59	42680	124.16	ug/L	#	51
20) Diisopropyl ether (DIPE)	5.093	45	2905	0.50	ug/L		88
21) 1,1-Dichloroethane	5.191	63	8898	2.24	ug/L		99
22) Acrylonitrile	5.270	53	2442	2.01	ug/L		98
23) Vinyl Acetate	5.514	43	4151	1.83	ug/L		87
24) Ethyl-tert-butyl ether...	5.496	59	2194	0.50	ug/L		94
25) c-1,2-Dichloroethene	5.801	61	6218	2.17	ug/L		90
26) 2,2-Dichloropropane	5.910	77	3460	2.04	ug/L	#	64
27) Bromochloromethane	6.014	49	4897	2.47	ug/L		82
28) Chloroform	6.112	83	8523	2.16	ug/L		96
29) Carbon Tetrachloride	6.233	117	3781	1.80	ug/L		99
30) Tetrahydrofuran	6.294	42	2041	1.86	ug/L		89
31) 1,1,1-Trichloroethane	6.313	97	5630	1.92	ug/L		91
33) 1,1-Dichloropropene	6.459	75	4996	1.85	ug/L		97
34) 2-Butanone (MEK)	6.459	43	6424	3.71	ug/L		99
35) Benzene	6.727	78	18474	2.10	ug/L		98
36) tert-Amyl methyl ether...	6.874	73	2276	0.54	ug/L	#	52
37) 1,2-Dichloroethane (EDC)	6.959	62	6699	2.08	ug/L		95
38) iso-Butyl Alcohol	7.020	43	9183	43.60	ug/L		93
40) Trichloroethene (TCE)	7.380	130	5135	1.91	ug/L		95
41) tert-Amyl ethyl ether ...	7.666	59	1547	0.57	ug/L		92
42) Dibromomethane	7.855	93	3205	2.11	ug/L		87
43) 1,2-Dichloropropane	7.971	63	5295	2.26	ug/L		98
44) Bromodichloromethane	8.050	83	4745	1.87	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.721	63	1396	1.02	ug/L	#	1
47) c-1,3-Dichloropropene	8.776	75	4719	1.79	ug/L		98
49) Toluene	8.965	91	20457	2.02	ug/L		95

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

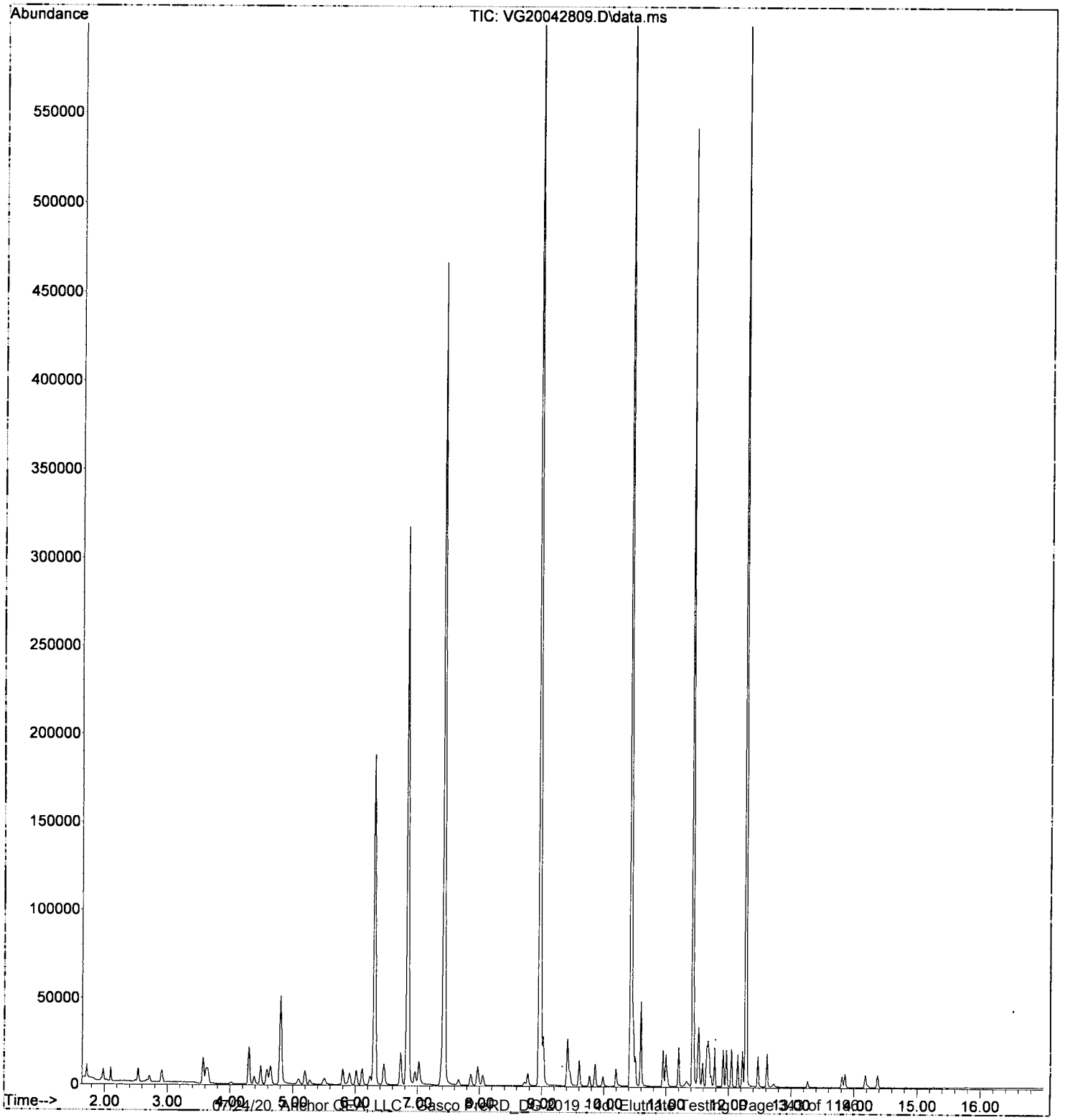
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	4099	1.56	ug/L		86
51) 4-Methyl-2-Pentanone (...	9.416	43	11635	3.31	ug/L		97
52) t-1,3-Dichloropropene	9.452	75	3895	1.75	ug/L		96
53) 1,1,2-Trichloroethane	9.605	97	4815	2.07	ug/L		95
54) Dibromochloromethane	9.769	129	3292	1.62	ug/L		96
55) 1,3-Dichloropropane	9.861	76	7446	2.07	ug/L		96
56) 1,2-Dibromoethane (EDB)	9.983	107	4307	1.84	ug/L		90
57) 2-Hexanone	10.190	43	7344	2.77	ug/L		91
58) Chlorobenzene	10.446	112	13084	1.92	ug/L		90
59) Ethylbenzene	10.470	91	20551	1.94	ug/L		96
60) 1,1,1,2-Tetrachloroethane	10.501	131	3453	1.74	ug/L		90
61) m,p-Xylenes (2)	10.592	91	25600	3.28	ug/L		96
62) o-Xylene	10.946	91	11482	1.52	ug/L		96
63) Styrene	10.995	104	8265	1.60	ug/L		96
64) Bromoform	11.019	173	2032	1.52	ug/L		89
65) Isopropylbenzene	11.202	105	12996	1.66	ug/L		96
68) Bromobenzene	11.513	156	4698	1.79	ug/L	#	78
69) n-Propylbenzene	11.525	91	17637	1.91	ug/L		94
70) 1,1,2,2-Tetrachloroethane	11.580	83	5938	2.29	ug/L		90
71) 2-Chlorotoluene	11.653	126	3818	1.87	ug/L		98
72) 1,3,5-Trimethylbenzene	11.671	105	10389	1.73	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	1959	2.14	ug/L	#	71
74) t-1,4-Dichloro-2-butene	11.720	88	427	2.58	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	11046	1.92	ug/L		93
76) tert-Butylbenzene	11.915	91	5969	1.84	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	9775	1.64	ug/L		95
78) sec-Butylbenzene	12.043	105	12245	1.83	ug/L		92
79) 4-Isopropyltoluene	12.147	119	8900	1.65	ug/L		95
80) 1,3-Dichlorobenzene	12.220	146	7077	1.78	ug/L		96
81) 1,4-Dichlorobenzene	12.287	146	8207	1.84	ug/L		89
82) n-Butylbenzene	12.470	91	8803	1.85	ug/L		90
83) 1,2-Dichlorobenzene	12.616	146	7179	1.83	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	13.263	157	855	1.40	ug/L	#	62
85) Hexachlorobutadiene	13.811	223	894	1.71	ug/L		93
86) 1,2,4-Trichlorobenzene	13.860	180	2821	1.36	ug/L		93
87) Naphthalene	14.177	128	6717	1.88	ug/L		95
88) 1,2,3-Trichlorobenzene	14.372	180	2840	1.38	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042809.D
Acq On : 28 Apr 2020 5:37 pm
Operator : PS
Sample : 0D28059-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 29 14:27:26 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	142812	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	395555	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	179946	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	141206	52.96	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	454891	53.07	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	541718	52.14	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	144745	47.59	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	13847	5.22	ug/L		99
3) Chloromethane	1.978	50	16598	6.21	ug/L		98
4) Vinyl Chloride	2.100	62	16642	5.75	ug/L		95
5) Bromomethane	2.533	96	12504	6.88	ug/L		99
6) Chloroethane	2.710	64	8320	7.62	ug/L		96
7) Trichlorofluoromethane	2.905	101	17523	4.78	ug/L		98
8) Ethanol	3.612	45	21364	327.95	ug/L		86
9) 1,1-Dichloroethene	3.563	61	18814	5.17	ug/L		94
10) Carbon Disulfide	3.563	76	22924	4.84	ug/L		98
11) Freon 113	3.636	101	12599	5.45	ug/L		89
12) Iodomethane	3.728	142	1498	5.40	ug/L		84
13) Acrolein	4.014	56	3041	5.61	ug/L		94
14) Methylene Chloride	4.295	84	19953	7.70	ug/L		98
15) Acetone	4.380	43	14762	11.02	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	18330	5.43	ug/L		97
17) n-Hexane	4.588	86	1711	5.70	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	30062	5.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	124783	323.57	ug/L	#	56
20) Diisopropyl ether (DIPE)	5.087	45	8551	1.32	ug/L		96
21) 1,1-Dichloroethane	5.191	63	24878	5.58	ug/L		99
22) Acrylonitrile	5.264	53	7632	5.59	ug/L		96
23) Vinyl Acetate	5.508	43	14594	4.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.490	59	6468	1.30	ug/L		87
25) c-1,2-Dichloroethene	5.795	61	18232	5.66	ug/L		98
26) 2,2-Dichloropropane	5.904	77	10290	5.42	ug/L	#	62
27) Bromochloromethane	6.014	49	13719	6.16	ug/L		90
28) Chloroform	6.106	83	24289	5.49	ug/L		97
29) Carbon Tetrachloride	6.234	117	11732	4.98	ug/L		92
30) Tetrahydrofuran	6.282	42	6128	4.99	ug/L		93
31) 1,1,1-Trichloroethane	6.313	97	17241	5.25	ug/L		92
33) 1,1-Dichloropropene	6.453	75	16001	5.29	ug/L		97
34) 2-Butanone (MEK)	6.453	43	19945	10.25	ug/L		98
35) Benzene	6.727	78	55897	5.66	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	6406	1.34	ug/L	#	58
37) 1,2-Dichloroethane (EDC)	6.959	62	19078	5.27	ug/L		99
38) iso-Butyl Alcohol	7.014	43	27429	116.07	ug/L		87
40) Trichloroethene (TCE)	7.380	130	15099	5.01	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	4150	1.36	ug/L		89
42) Dibromomethane	7.855	93	9153	5.38	ug/L		88
43) 1,2-Dichloropropane	7.965	63	14723	5.61	ug/L		94
44) Bromodichloromethane	8.050	83	14828	5.21	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.715	63	4421	2.85	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	14490	4.86	ug/L		96
49) Toluene	9.020	91	60036	5.24	ug/L		96

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	13173	4.43 ug/L	94
51) 4-Methyl-2-Pentanone (...	9.416	43	35418	8.91 ug/L	98
52) t-1,3-Dichloropropene	9.446	75	13049	4.51 ug/L	97
53) 1,1,2-Trichloroethane	9.599	97	14251	5.41 ug/L	92
54) Dibromochloromethane	9.763	129	10229	4.12 ug/L	99
55) 1,3-Dichloropropane	9.855	76	22206	5.46 ug/L	96
56) 1,2-Dibromoethane (EDB)	9.983	107	12948	4.87 ug/L	95
57) 2-Hexanone	10.190	43	22555	7.50 ug/L	93
58) Chlorobenzene	10.446	112	38442	4.98 ug/L	98
59) Ethylbenzene	10.471	91	60457	5.04 ug/L	100
60) 1,1,1,2-Tetrachloroethane	10.501	131	10701	4.77 ug/L	93
61) m,p-Xylenes (2)	10.592	91	82936	9.24 ug/L	98
62) o-Xylene	10.946	91	37475	4.25 ug/L	94
63) Styrene	10.995	104	29377	4.31 ug/L	100
64) Bromoform	11.019	173	6855	3.86 ug/L	96
65) Isopropylbenzene	11.196	105	43279	4.34 ug/L	96
68) Bromobenzene	11.507	156	14510	4.65 ug/L #	82
69) n-Propylbenzene	11.525	91	55551	5.06 ug/L	96
70) 1,1,2,2-Tetrachloroethane	11.586	83	17506	5.68 ug/L	98
71) 2-Chlorotoluene	11.647	126	11788	4.85 ug/L #	85
72) 1,3,5-Trimethylbenzene	11.672	105	35877	5.02 ug/L	95
73) 1,2,3-Trichloropropane	11.690	110	5738	5.27 ug/L #	69
74) t-1,4-Dichloro-2-butene	11.720	88	1351	4.88 ug/L #	70
75) 4-Chlorotoluene	11.775	91	34971	5.13 ug/L	95
76) tert-Butylbenzene	11.915	91	18795	4.87 ug/L	96
77) 1,2,4-Trimethylbenzene	11.964	105	35221	4.98 ug/L	97
78) sec-Butylbenzene	12.043	105	41621	5.23 ug/L	93
79) 4-Isopropyltoluene	12.147	119	30863	4.54 ug/L	98
80) 1,3-Dichlorobenzene	12.220	146	23270	4.92 ug/L	97
81) 1,4-Dichlorobenzene	12.287	146	25459	4.81 ug/L	94
82) n-Butylbenzene	12.470	91	29620	5.26 ug/L	94
83) 1,2-Dichlorobenzene	12.616	146	22390	4.81 ug/L	98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	2995	4.13 ug/L	81
85) Hexachlorobutadiene	13.811	223	2853	4.59 ug/L	97
86) 1,2,4-Trichlorobenzene	13.854	180	9612	3.92 ug/L	98
87) Naphthalene	14.177	128	23409	3.76 ug/L	99
88) 1,2,3-Trichlorobenzene	14.372	180	9690	3.97 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	142812	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	395555	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	179946	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	141206	52.96	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	454891	53.07	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	541718	52.14	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	144745	47.59	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	13847	5.22	ug/L		99
3) Chloromethane	1.978	50	16598	6.21	ug/L		98
4) Vinyl Chloride	2.100	62	16642	5.75	ug/L		95
5) Bromomethane	2.533	96	12504	6.88	ug/L		99
6) Chloroethane	2.710	64	8320	7.62	ug/L		96
7) Trichlorofluoromethane	2.905	101	17523	4.78	ug/L		98
8) Ethanol	3.612	45	21364	327.95	ug/L		86
9) 1,1-Dichloroethene	3.563	61	18814	5.17	ug/L		94
10) Carbon Disulfide	3.563	76	22924	4.84	ug/L		98
11) Freon 113	3.636	101	12599	5.45	ug/L		89
12) Iodomethane	3.728	142	1498	5.40	ug/L		84
13) Acrolein	4.014	56	3041	5.61	ug/L		94
14) Methylene Chloride	4.295	84	19953	7.70	ug/L		98
15) Acetone	4.380	43	14762	11.02	ug/L		96
16) t-1,2-Dichloroethene	4.484	61	18330	5.43	ug/L		97
17) n-Hexane	4.588	86	1711	5.70	ug/L	#	43
18) Methyl-tert-butyl-ether	4.642	73	30062	5.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	124783	323.57	ug/L	#	56
20) Diisopropyl ether (DIPE)	5.087	45	8551	1.32	ug/L		96
21) 1,1-Dichloroethane	5.191	63	24878	5.58	ug/L		99
22) Acrylonitrile	5.264	53	7632	5.59	ug/L		96
23) Vinyl Acetate	5.508	43	14594	4.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.490	59	6468	1.30	ug/L		87
25) c-1,2-Dichloroethene	5.795	61	18232	5.66	ug/L		98
26) 2,2-Dichloropropane	5.904	77	10290	5.42	ug/L	#	62
27) Bromochloromethane	6.014	49	13719	6.16	ug/L		90
28) Chloroform	6.106	83	24289	5.49	ug/L		97
29) Carbon Tetrachloride	6.234	117	11732	4.98	ug/L		92
30) Tetrahydrofuran	6.282	42	6128	4.99	ug/L		93
31) 1,1,1-Trichloroethane	6.313	97	17241	5.25	ug/L		92
33) 1,1-Dichloropropene	6.453	75	16001	5.29	ug/L		97
34) 2-Butanone (MEK)	6.453	43	19945	10.25	ug/L		98
35) Benzene	6.727	78	55897	5.66	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	6406	1.34	ug/L	#	58
37) 1,2-Dichloroethane (EDC)	6.959	62	19078	5.27	ug/L		99
38) iso-Butyl Alcohol	7.014	43	27429	116.07	ug/L		87
40) Trichloroethene (TCE)	7.380	130	15099	5.01	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	4150	1.36	ug/L		89
42) Dibromomethane	7.855	93	9153	5.38	ug/L		88
43) 1,2-Dichloropropane	7.965	63	14723	5.61	ug/L		94
44) Bromodichloromethane	8.050	83	14828	5.21	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.715	63	4421	2.85	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	14490	4.86	ug/L		96
49) Toluene	9.020	91	26193	5.24	ug/L		99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

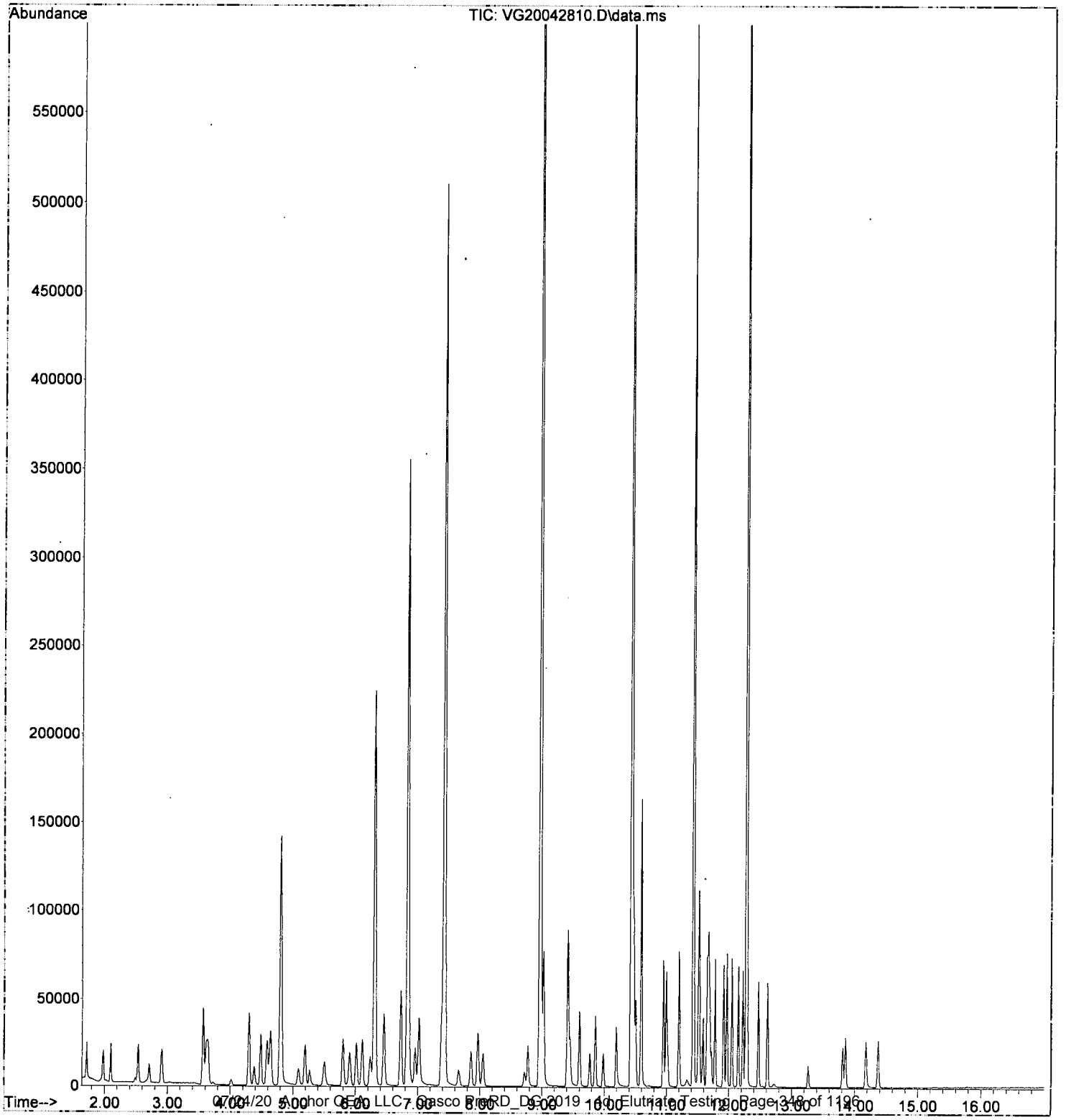
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	13173	4.43	ug/L		94
51) 4-Methyl-2-Pentanone (...	9.416	43	35418	8.91	ug/L		98
52) t-1,3-Dichloropropene	9.446	75	13049	4.51	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	14251	5.41	ug/L		92
54) Dibromochloromethane	9.763	129	10229	4.12	ug/L		99
55) 1,3-Dichloropropane	9.855	76	22206	5.46	ug/L		96
56) 1,2-Dibromoethane (EDB)	9.983	107	12948	4.87	ug/L		95
57) 2-Hexanone	10.190	43	22555	7.50	ug/L		93
58) Chlorobenzene	10.446	112	38442	4.98	ug/L		98
59) Ethylbenzene	10.471	91	60457	5.04	ug/L		100
60) 1,1,1,2-Tetrachloroethane	10.501	131	10701	4.77	ug/L		93
61) m,p-Xylenes (2)	10.592	91	82936	9.24	ug/L		98
62) o-Xylene	10.946	91	37475	4.25	ug/L		94
63) Styrene	10.995	104	29377	4.31	ug/L		100
64) Bromoform	11.019	173	6855	3.86	ug/L		96
65) Isopropylbenzene	11.196	105	43279	4.34	ug/L		96
68) Bromobenzene	11.507	156	14510	4.65	ug/L	#	82
69) n-Propylbenzene	11.525	91	55551	5.06	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	17506	5.68	ug/L		98
71) 2-Chlorotoluene	11.647	126	11788	4.85	ug/L	#	85
72) 1,3,5-Trimethylbenzene	11.672	105	35877	5.02	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	5738	5.27	ug/L	#	69
74) t-1,4-Dichloro-2-butene	11.720	88	1351	4.88	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	34971	5.13	ug/L		95
76) tert-Butylbenzene	11.915	91	18795	4.87	ug/L		96
77) 1,2,4-Trimethylbenzene	11.964	105	35221	4.93	ug/L		97
78) sec-Butylbenzene	12.043	105	41621	5.23	ug/L		93
79) 4-Isopropyltoluene	12.147	119	30863	4.54	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	23270	4.92	ug/L		97
81) 1,4-Dichlorobenzene	12.287	146	25459	4.81	ug/L		94
82) n-Butylbenzene	12.470	91	29620	5.26	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	22390	4.81	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	2995	4.13	ug/L		81
85) Hexachlorobutadiene	13.811	223	2853	4.59	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	9612	3.92	ug/L		98
87) Naphthalene	14.177	128	23409	3.76	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	9690	3.97	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042810.D
Acq On : 28 Apr 2020 6:04 pm
Operator : PS
Sample : 0D28059-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 14:27:29 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139423	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	383963	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	178553	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	136574	52.47	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	439924	52.57	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	522720	51.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	142580	47.24	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	26239	10.13	ug/L		98
3) Chloromethane	1.978	50	31411	12.03	ug/L		98
4) Vinyl Chloride	2.100	62	32203	11.39	ug/L		94
5) Bromomethane	2.533	96	22785	12.84	ug/L		97
6) Chloroethane	2.710	64	11336	10.77	ug/L		88
7) Trichlorofluoromethane	2.905	101	32312	9.02	ug/L		98
8) Ethanol	3.612	45	44890	705.83	ug/L		83
9) 1,1-Dichloroethene	3.563	61	37076	10.44	ug/L		93
10) Carbon Disulfide	3.563	76	45558	9.84	ug/L		99
11) Freon 113	3.636	101	23367	10.36	ug/L		94
12) Iodomethane	3.728	142	4602	8.10	ug/L		93
13) Acrolein	4.008	56	6310	11.93	ug/L		98
14) Methylene Chloride	4.295	84	33896	13.39	ug/L		93
15) Acetone	4.380	43	28163	21.54	ug/L		95
16) t-1,2-Dichloroethene	4.484	61	36259	11.01	ug/L		96
17) n-Hexane	4.581	86	3233	11.03	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	62513	11.36	ug/L		100
19) tert-Butanol (TBA)	4.801	59	272405	723.53	ug/L	#	64
20) Diisopropyl ether (DIPE)	5.087	45	17898	2.84	ug/L		94
21) 1,1-Dichloroethane	5.191	63	49091	11.27	ug/L		99
22) Acrylonitrile	5.264	53	16003	12.00	ug/L		95
23) Vinyl Acetate	5.508	43	33186	9.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.496	59	13478	2.78	ug/L		92
25) c-1,2-Dichloroethene	5.795	61	36783	11.69	ug/L		92
26) 2,2-Dichloropropane	5.910	77	19999	10.79	ug/L	#	55
27) Bromochloromethane	6.014	49	26657	12.27	ug/L		86
28) Chloroform	6.105	83	47467	10.99	ug/L		97
29) Carbon Tetrachloride	6.233	117	24278	10.56	ug/L		94
30) Tetrahydrofuran	6.282	42	13399	11.17	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	33372	10.41	ug/L		91
33) 1,1-Dichloropropene	6.453	75	32463	10.99	ug/L		95
34) 2-Butanone (MEK)	6.453	43	41809	22.02	ug/L		97
35) Benzene	6.727	78	111329	11.54	ug/L		99
36) tert-Amyl methyl ether...	6.874	73	12901	2.77	ug/L		72
37) 1,2-Dichloroethane (EDC)	6.959	62	37364	10.58	ug/L		98
38) iso-Butyl Alcohol	7.020	43	59903	259.65	ug/L		90
40) Trichloroethene (TCE)	7.380	130	28530	9.70	ug/L		97
41) tert-Amyl ethyl ether ...	7.660	59	8864	2.97	ug/L		86
42) Dibromomethane	7.855	93	18454	11.11	ug/L		90
43) 1,2-Dichloropropane	7.965	63	29839	11.64	ug/L		91
44) Bromodichloromethane	8.050	83	29724	10.70	ug/L		96
46) 2-Chloroethyl Vinyl Ether	8.715	63	9597	6.38	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	31828	11.00	ug/L		97
49) Toluene	9.019	91	126159	10.44	ug/L		100

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	24546	8.51	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.416	43	78447	20.33	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	28464	9.65	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	27495	10.74	ug/L		93
54) Dibromochloromethane	9.769	129	21974	8.86	ug/L		99
55) 1,3-Dichloropropane	9.855	76	44749	11.33	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.983	107	25910	10.04	ug/L		97
57) 2-Hexanone	10.190	43	54460	18.66	ug/L		94
58) Chlorobenzene	10.446	112	73524	9.82	ug/L		96
59) Ethylbenzene	10.470	91	120072	10.31	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	21231	9.75	ug/L		94
61) m,p-Xylenes (2)	10.592	91	172596	19.69	ug/L		97
62) o-Xylene	10.946	91	80619	9.29	ug/L		94
63) Styrene	10.995	104	65789	9.47	ug/L		98
64) Bromoform	11.019	173	14508	7.95	ug/L		98
65) Isopropylbenzene	11.196	105	93386	9.26	ug/L		96
68) Bromobenzene	11.513	156	28215	9.11	ug/L		87
69) n-Propylbenzene	11.525	91	115790	10.63	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	35152	11.49	ug/L		96
71) 2-Chlorotoluene	11.647	126	24180	10.04	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	77814	10.98	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	11646	10.78	ug/L	#	76
74) t-1,4-Dichloro-2-butene	11.720	88	3230	10.01	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	74114	10.95	ug/L		95
76) tert-Butylbenzene	11.915	91	39548	10.33	ug/L		92
77) 1,2,4-Trimethylbenzene	11.964	105	77201	11.01	ug/L		95
78) sec-Butylbenzene	12.043	105	88075	11.15	ug/L		94
79) 4-Isopropyltoluene	12.147	119	66417	9.64	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	47228	10.06	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	50096	9.55	ug/L		97
82) n-Butylbenzene	12.470	91	63004	11.27	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	45442	9.84	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	6172	8.57	ug/L		72
85) Hexachlorobutadiene	13.811	223	5547	9.00	ug/L		94
86) 1,2,4-Trichlorobenzene	13.854	180	21662	8.89	ug/L		95
87) Naphthalene	14.177	128	61073	8.39	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	22187	9.17	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

4/29/20 tnl

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	139423	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	383963	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	178553	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	136574	52.47	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	439924	52.57	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	522720	51.83	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	142580	47.24	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	26239	10.13	ug/L		98
3) Chloromethane	1.978	50	31411	12.03	ug/L		98
4) Vinyl Chloride	2.100	62	32203	11.39	ug/L		94
5) Bromomethane	2.533	96	22785	12.84	ug/L		97
6) Chloroethane	2.710	64	11336	10.77	ug/L		88
7) Trichlorofluoromethane	2.905	101	32312	9.02	ug/L		98
8) Ethanol	3.612	45	44890	705.83	ug/L		83
9) 1,1-Dichloroethene	3.563	61	37076	10.44	ug/L		93
10) Carbon Disulfide	3.563	76	45558	9.84	ug/L		99
11) Freon 113	3.636	101	23367	10.35	ug/L		94
12) Iodomethane	3.728	142	4602	8.10	ug/L		93
13) Acrolein	4.008	56	6310	11.93	ug/L		98
14) Methylene Chloride	4.295	84	33896	13.39	ug/L		93
15) Acetone	4.380	43	28163	21.54	ug/L		95
16) t-1,2-Dichloroethene	4.484	61	36259	11.01	ug/L		96
17) n-Hexane	4.581	86	3233	11.03	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	62513	11.36	ug/L		100
19) tert-Butanol (TBA)	4.801	59	272405	723.53	ug/L	#	64
20) Diisopropyl ether (DIPE)	5.087	45	17898	2.84	ug/L		94
21) 1,1-Dichloroethane	5.191	63	49091	11.27	ug/L		99
22) Acrylonitrile	5.264	53	16003	12.00	ug/L		95
23) Vinyl Acetate	5.508	43	33186	9.43	ug/L		94
24) Ethyl-tert-butyl ether...	5.496	59	13478	2.78	ug/L		92
25) c-1,2-Dichloroethene	5.795	61	36783	11.69	ug/L		92
26) 2,2-Dichloropropane	5.910	77	19999	10.79	ug/L	#	55
27) Bromochloromethane	6.014	49	26657	12.27	ug/L		86
28) Chloroform	6.105	83	47467	10.99	ug/L		97
29) Carbon Tetrachloride	6.233	117	24278	10.56	ug/L		94
30) Tetrahydrofuran	6.282	42	13399	11.17	ug/L		94
31) 1,1,1-Trichloroethane	6.313	97	33372	10.41	ug/L		91
33) 1,1-Dichloropropene	6.453	75	32463	10.99	ug/L		95
34) 2-Butanone (MEK)	6.453	43	41809	22.02	ug/L		97
35) Benzene	6.727	78	111329	11.54	ug/L		99
36) tert-Amyl methyl ether...	6.874	73	12901	2.77	ug/L		72
37) 1,2-Dichloroethane (EDC)	6.959	62	37364	10.58	ug/L		98
38) iso-Butyl Alcohol	7.020	43	59903	259.65	ug/L		90
40) Trichloroethene (TCE)	7.380	130	28530	9.70	ug/L		97
41) tert-Amyl ethyl ether ...	7.660	59	8864	2.97	ug/L		86
42) Dibromomethane	7.855	93	18454	11.11	ug/L		90
43) 1,2-Dichloropropane	7.965	63	29839	11.64	ug/L		91
44) Bromodichloromethane	8.050	83	29724	10.70	ug/L		96
46) 2-Chloroethyl Vinyl Ether	8.715	63	9597	6.38	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	31828	11.00	ug/L		97
49) Toluene	9.019	91	116159	10.44	ug/L		100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

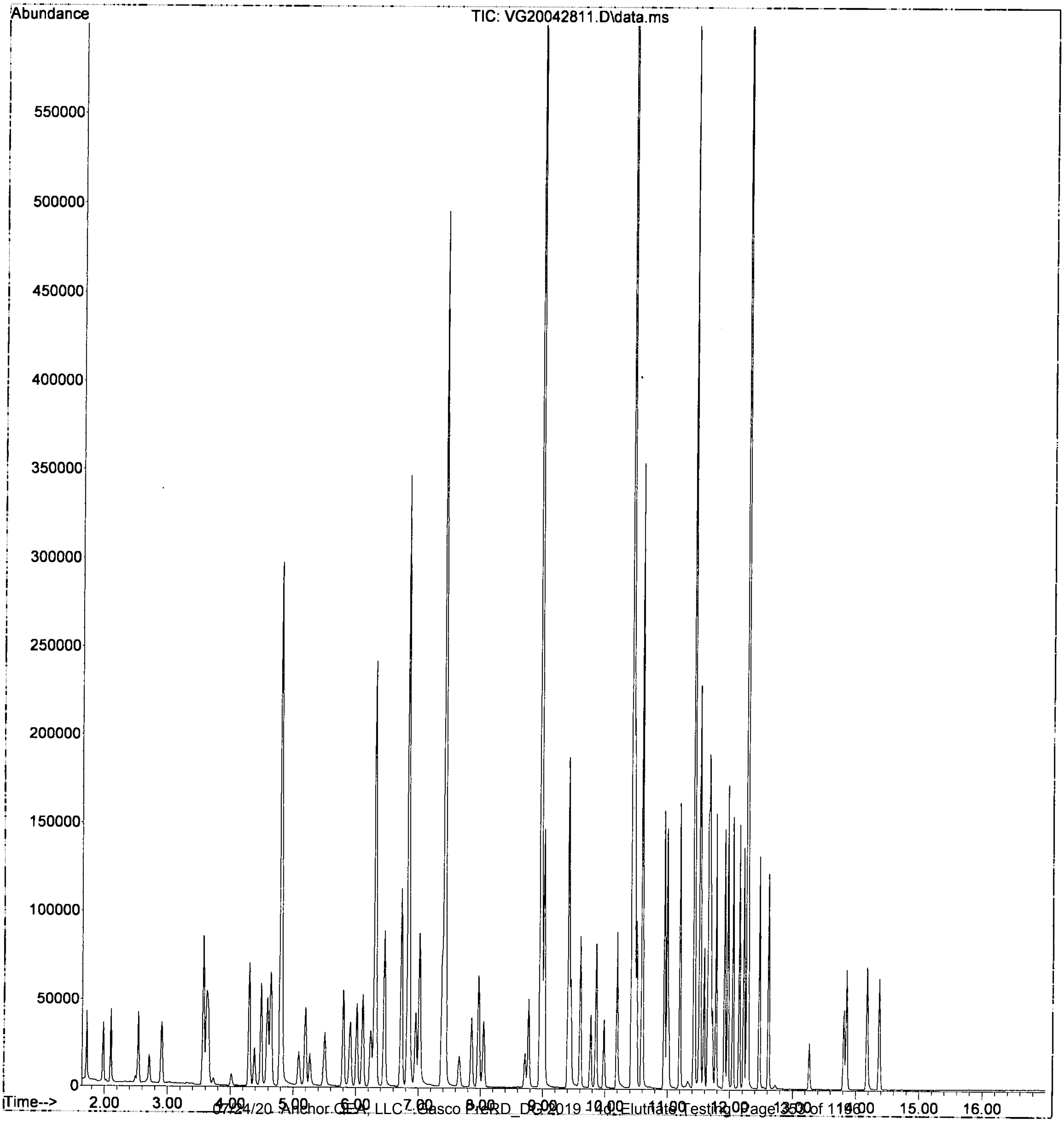
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	24546	8.51	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.416	43	78447	20.33	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	28464	9.65	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	27495	10.74	ug/L		93
54) Dibromochloromethane	9.769	129	21974	8.86	ug/L		99
55) 1,3-Dichloropropane	9.855	76	44749	11.33	ug/L		94
56) 1,2-Dibromoethane (EDB)	9.983	107	25910	10.04	ug/L		97
57) 2-Hexanone	10.190	43	54460	18.66	ug/L		94
58) Chlorobenzene	10.446	112	73524	9.82	ug/L		96
59) Ethylbenzene	10.470	91	120072	10.31	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	21231	9.75	ug/L		94
61) m,p-Xylenes (2)	10.592	91	172596	19.69	ug/L		97
62) o-Xylene	10.946	91	80619	9.29	ug/L		94
63) Styrene	10.995	104	65789	9.47	ug/L		98
64) Bromoform	11.019	173	14508	7.95	ug/L		98
65) Isopropylbenzene	11.196	105	93386	9.26	ug/L		96
68) Bromobenzene	11.513	156	28215	9.11	ug/L		87
69) n-Propylbenzene	11.525	91	115790	10.63	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	35152	11.49	ug/L		96
71) 2-Chlorotoluene	11.647	126	24180	10.04	ug/L		93
72) 1,3,5-Trimethylbenzene	11.671	105	77814	10.98	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	11646	10.78	ug/L	#	76
74) t-1,4-Dichloro-2-butene	11.720	88	3230	10.01	ug/L	#	70
75) 4-Chlorotoluene	11.775	91	74114	10.95	ug/L		95
76) tert-Butylbenzene	11.915	91	39548	10.33	ug/L		92
77) 1,2,4-Trimethylbenzene	11.964	105	77201	11.01	ug/L		95
78) sec-Butylbenzene	12.043	105	88075	11.15	ug/L		94
79) 4-Isopropyltoluene	12.147	119	66417	9.64	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	47228	10.06	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	50096	9.55	ug/L		97
82) n-Butylbenzene	12.470	91	63004	11.27	ug/L		94
83) 1,2-Dichlorobenzene	12.616	146	45442	9.84	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	6172	8.57	ug/L		72
85) Hexachlorobutadiene	13.811	223	5547	9.00	ug/L		94
86) 1,2,4-Trichlorobenzene	13.854	180	21662	8.89	ug/L		95
87) Naphthalene	14.177	128	61073	8.39	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	22187	9.17	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042811.D
Acq On : 28 Apr 2020 6:31 pm
Operator : PS
Sample : 0D28059-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 14:27:32 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	145168	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	402229	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	194144	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	142690	52.65	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	457229	52.48	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	543124	51.41	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	151710	46.23	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	57105	21.18	ug/L		98
3) Chloromethane	1.978	50	68020	25.02	ug/L		99
4) Vinyl Chloride	2.100	62	69809	23.72	ug/L		96
5) Bromomethane	2.533	96	44234	23.93	ug/L		98
6) Chloroethane	2.704	64	21007	19.59	ug/L		96
7) Trichlorofluoromethane	2.899	101	70026	18.78	ug/L		99
8) Ethanol	3.618	45	95124	1436.50	ug/L		84
9) 1,1-Dichloroethene	3.563	61	82498	22.80	ug/L		95
10) Carbon Disulfide	3.563	76	107913	22.40	ug/L		98
11) Freon 113	3.636	101	50999	21.69	ug/L		92
12) Iodomethane	3.728	142	15447	16.58	ug/L		92
13) Acrolein	4.008	56	14426	26.20	ug/L		96
14) Methylene Chloride	4.295	84	66422	25.21	ug/L		94
15) Acetone	4.380	43	59628	43.79	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	80067	23.34	ug/L		98
17) n-Hexane	4.581	86	7464	24.45	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	143781	25.09	ug/L		98
19) tert-Butanol (TBA)	4.801	59	633758	1616.70	ug/L	#	74
20) Diisopropyl ether (DIPE)	5.087	45	39213	5.97	ug/L		95
21) 1,1-Dichloroethane	5.191	63	107573	23.72	ug/L		100
22) Acrylonitrile	5.264	53	36134	26.03	ug/L		95
23) Vinyl Acetate	5.502	43	83858	21.58	ug/L		95
24) Ethyl-tert-butyl ether...	5.490	59	30757	6.10	ug/L		93
25) c-1,2-Dichloroethene	5.795	61	81309	24.83	ug/L		96
26) 2,2-Dichloropropane	5.904	77	46097	23.88	ug/L	#	66
27) Bromochloromethane	6.014	49	56728	25.08	ug/L		90
28) Chloroform	6.106	83	101369	22.53	ug/L		96
29) Carbon Tetrachloride	6.234	117	56466	23.59	ug/L		98
30) Tetrahydrofuran	6.282	42	29915	23.95	ug/L		96
31) 1,1,1-Trichloroethane	6.313	97	75474	22.61	ug/L		94
33) 1,1-Dichloropropene	6.453	75	75641	24.60	ug/L		97
34) 2-Butanone (MEK)	6.453	43	96125	48.62	ug/L		98
35) Benzene	6.727	78	246984	24.59	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	28625	5.90	ug/L		76
37) 1,2-Dichloroethane (EDC)	6.959	62	80002	21.75	ug/L		98
38) iso-Butyl Alcohol	7.014	43	141129	587.52	ug/L		93
40) Trichloroethene (TCE)	7.380	130	63379	20.70	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	20211	6.51	ug/L		89
42) Dibromomethane	7.855	93	39871	23.05	ug/L		88
43) 1,2-Dichloropropane	7.965	63	64553	24.18	ug/L		92
44) Bromodichloromethane	8.050	83	68001	23.51	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.715	63	25300	16.05	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	76593	25.27	ug/L		96
49) Toluene	[illegible]	91	[illegible]	21.86	ug/L		98

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	55366	18.33	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.410	43	181192	44.83	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	69258	21.65	ug/L		95
53) 1,1,2-Trichloroethane	9.599	97	59774	22.30	ug/L		97
54) Dibromochloromethane	9.769	129	51693	19.44	ug/L		99
55) 1,3-Dichloropropane	9.855	76	97867	23.65	ug/L		97
56) 1,2-Dibromoethane (EDB)	9.983	107	59469	22.01	ug/L		98
57) 2-Hexanone	10.190	43	131124	42.89	ug/L		98
58) Chlorobenzene	10.446	112	161648	20.60	ug/L		100
59) Ethylbenzene	10.464	91	267924	21.95	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	48948	21.45	ug/L		95
61) m,p-Xylenes (2)	10.592	91	395642	42.79	ug/L		97
62) o-Xylene	10.946	91	192167	20.90	ug/L		97
63) Styrene	10.989	104	155824	20.85	ug/L		99
64) Bromoform	11.019	173	35427	17.79	ug/L		97
65) Isopropylbenzene	11.196	105	224839	20.78	ug/L		96
68) Bromobenzene	11.513	156	64696	19.21	ug/L		87
69) n-Propylbenzene	11.519	91	270477	22.83	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	78508	23.61	ug/L		96
71) 2-Chlorotoluene	11.647	126	56094	21.41	ug/L		93
72) 1,3,5-Trimethylbenzene	11.672	105	183706	23.83	ug/L		94
73) 1,2,3-Trichloropropane	11.690	110	25712	21.89	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	8122	21.34	ug/L	#	79
75) 4-Chlorotoluene	11.775	91	171897	23.37	ug/L		95
76) tert-Butylbenzene	11.909	91	93619	22.49	ug/L		87
77) 1,2,4-Trimethylbenzene	11.964	105	181278	23.78	ug/L		97
78) sec-Butylbenzene	12.043	105	208931	24.34	ug/L		94
79) 4-Isopropyltoluene	12.147	119	162974	21.42	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	108348	21.23	ug/L		97
81) 1,4-Dichlorobenzene	12.287	146	112685	19.75	ug/L		96
82) n-Butylbenzene	12.470	91	150042	24.68	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	105171	20.95	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	13.263	157	15323	19.57	ug/L		76
85) Hexachlorobutadiene	13.811	223	12746	19.01	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	54807	20.69	ug/L		97
87) Naphthalene	14.177	128	176300	20.67	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	55471	21.09	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

4/29/2020

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	145168	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	402229	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	194144	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	142690	52.65	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	457229	52.48	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	543124	51.41	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	151710	46.23	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	57105	21.18	ug/L		98
3) Chloromethane	1.978	50	68020	25.02	ug/L		99
4) Vinyl Chloride	2.100	62	69809	23.72	ug/L		96
5) Bromomethane	2.533	96	44234	23.93	ug/L		98
6) Chloroethane	2.704	64	21007	19.59	ug/L		96
7) Trichlorofluoromethane	2.899	101	70026	18.78	ug/L		99
8) Ethanol	3.618	45	95124	1436.50	ug/L		84
9) 1,1-Dichloroethene	3.563	61	82498	22.30	ug/L		95
10) Carbon Disulfide	3.563	76	107913	22.40	ug/L		98
11) Freon 113	3.636	101	50999	21.69	ug/L		92
12) Iodomethane	3.728	142	15447	16.58	ug/L		92
13) Acrolein	4.008	56	14426	26.20	ug/L		96
14) Methylene Chloride	4.295	84	66422	25.21	ug/L		94
15) Acetone	4.380	43	59628	43.79	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	80067	23.34	ug/L		98
17) n-Hexane	4.581	86	7464	24.45	ug/L	#	28
18) Methyl-tert-butyl-ether	4.636	73	143781	25.09	ug/L		98
19) tert-Butanol (TBA)	4.801	59	633758	1616.70	ug/L	#	74
20) Diisopropyl ether (DIPE)	5.087	45	39213	5.97	ug/L		95
21) 1,1-Dichloroethane	5.191	63	107573	23.72	ug/L		100
22) Acrylonitrile	5.264	53	36134	26.03	ug/L		95
23) Vinyl Acetate	5.502	43	83858	21.58	ug/L		95
24) Ethyl-tert-butyl ether...	5.490	59	30757	6.10	ug/L		93
25) c-1,2-Dichloroethene	5.795	61	81309	24.83	ug/L		96
26) 2,2-Dichloropropane	5.904	77	46097	23.88	ug/L	#	66
27) Bromochloromethane	6.014	49	56728	25.08	ug/L		90
28) Chloroform	6.106	83	101369	22.53	ug/L		96
29) Carbon Tetrachloride	6.234	117	56466	23.59	ug/L		98
30) Tetrahydrofuran	6.282	42	29915	23.95	ug/L		96
31) 1,1,1-Trichloroethane	6.313	97	75474	22.61	ug/L		94
33) 1,1-Dichloropropene	6.453	75	75641	24.60	ug/L		97
34) 2-Butanone (MEK)	6.453	43	96125	48.62	ug/L		98
35) Benzene	6.727	78	246984	24.59	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	28625	5.90	ug/L		76
37) 1,2-Dichloroethane (EDC)	6.959	62	80002	21.75	ug/L		98
38) iso-Butyl Alcohol	7.014	43	141129	587.52	ug/L		93
40) Trichloroethene (TCE)	7.380	130	63379	20.70	ug/L		95
41) tert-Amyl ethyl ether ...	7.654	59	20211	6.51	ug/L		89
42) Dibromomethane	7.855	93	39871	23.05	ug/L		88
43) 1,2-Dichloropropane	7.965	63	64553	24.18	ug/L		92
44) Bromodichloromethane	8.050	83	68001	23.51	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.715	63	25300	16.05	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	76593	25.27	ug/L		96
49) Toluene	9.020	91	254746	21.86	ug/L		98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

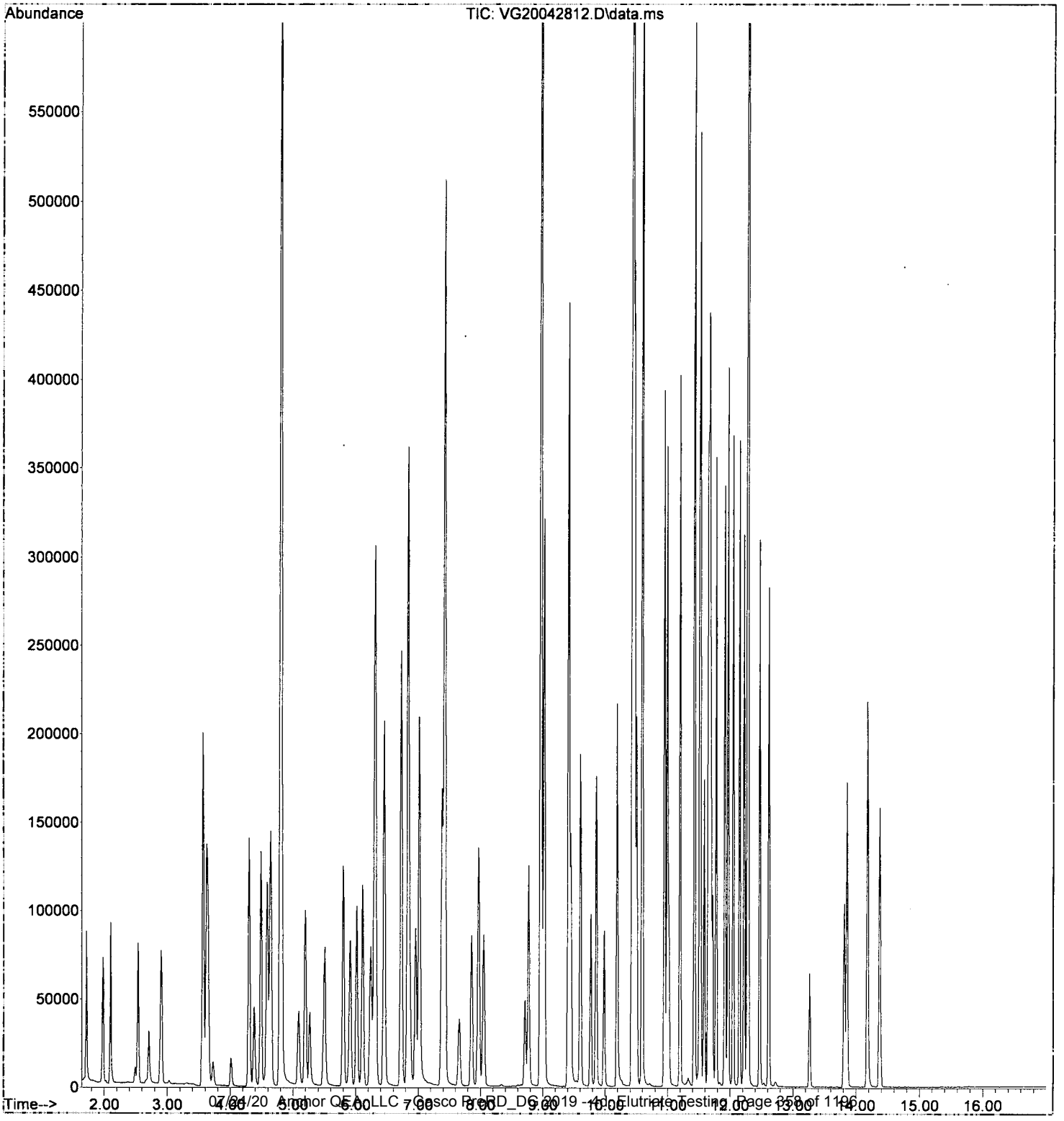
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	55366	18.33	ug/L		93
51) 4-Methyl-2-Pentanone (...	9.410	43	181192	44.83	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	69258	21.65	ug/L		95
53) 1,1,2-Trichloroethane	9.599	97	59774	22.30	ug/L		97
54) Dibromochloromethane	9.769	129	51693	19.44	ug/L		99
55) 1,3-Dichloropropane	9.855	76	97867	23.65	ug/L		97
56) 1,2-Dibromoethane (EDB)	9.983	107	59469	22.01	ug/L		98
57) 2-Hexanone	10.190	43	131124	42.89	ug/L		98
58) Chlorobenzene	10.446	112	161648	20.60	ug/L		100
59) Ethylbenzene	10.464	91	267924	21.95	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	48948	21.45	ug/L		95
61) m,p-Xylenes (2)	10.592	91	395642	42.79	ug/L		97
62) o-Xylene	10.946	91	192167	20.90	ug/L		97
63) Styrene	10.989	104	155824	20.85	ug/L		99
64) Bromoform	11.019	173	35427	17.79	ug/L		97
65) Isopropylbenzene	11.196	105	224839	20.78	ug/L		96
68) Bromobenzene	11.513	156	64696	19.21	ug/L		87
69) n-Propylbenzene	11.519	91	270477	22.83	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.586	83	78508	23.61	ug/L		96
71) 2-Chlorotoluene	11.647	126	56094	21.41	ug/L		93
72) 1,3,5-Trimethylbenzene	11.672	105	183706	23.83	ug/L		94
73) 1,2,3-Trichloropropane	11.690	110	25712	21.89	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	8122	21.34	ug/L	#	79
75) 4-Chlorotoluene	11.775	91	171897	23.37	ug/L		95
76) tert-Butylbenzene	11.909	91	93619	22.49	ug/L		87
77) 1,2,4-Trimethylbenzene	11.964	105	181278	23.78	ug/L		97
78) sec-Butylbenzene	12.043	105	208931	24.34	ug/L		94
79) 4-Isopropyltoluene	12.147	119	162974	21.42	ug/L		98
80) 1,3-Dichlorobenzene	12.220	146	108348	21.23	ug/L		97
81) 1,4-Dichlorobenzene	12.287	146	112685	19.75	ug/L		96
82) n-Butylbenzene	12.470	91	150042	24.68	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	105171	20.95	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	13.263	157	15323	19.57	ug/L		76
85) Hexachlorobutadiene	13.811	223	12746	19.01	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	54807	20.69	ug/L		97
87) Naphthalene	14.177	128	176300	20.67	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	55471	21.09	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042812.D
Acq On : 28 Apr 2020 6:58 pm
Operator : PS
Sample : 0D28059-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 14:27:35 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	155943	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	433790	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	218062	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	153880	52.85 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	494278	52.81 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	579127	50.83 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	167491	45.44 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.716	85	168157	58.05 ug/L	99
3) Chloromethane	1.978	50	188663	64.61 ug/L	100
4) Vinyl Chloride	2.100	62	203097	64.23 ug/L	95
5) Bromomethane	2.533	96	110130	55.47 ug/L	99
6) Chloroethane	2.710	64	56347	51.46 ug/L	95
7) Trichlorofluoromethane	2.905	101	188165	46.98 ug/L	98
8) Ethanol	3.612	45	204153	2869.95 ug/L	85
9) 1,1-Dichloroethene	3.563	61	219956	55.35 ug/L	96
10) Carbon Disulfide	3.563	76	325731	62.93 ug/L	99
11) Freon 113	3.642	101	132348	52.39 ug/L	93
12) Iodomethane	3.728	142	70400	51.40 ug/L	93
13) Acrolein	4.008	56	40730	68.87 ug/L	94
14) Methylene Chloride	4.295	84	166231	58.73 ug/L	95
15) Acetone	4.374	43	147679	100.97 ug/L	98
16) t-1,2-Dichloroethene	4.484	61	216769	58.83 ug/L	97
17) n-Hexane	4.581	86	21842	66.61 ug/L #	25
18) Methyl-tert-butyl-ether	4.636	73	389222	63.22 ug/L	99
19) tert-Butanol (TBA)	4.801	59	1397478	3318.62 ug/L #	84
20) Diisopropyl ether (DIPE)	5.087	45	85733	12.15 ug/L	95
21) 1,1-Dichloroethane	5.191	63	283431	58.18 ug/L	99
22) Acrylonitrile	5.264	53	93340	62.60 ug/L	97
23) Vinyl Acetate	5.502	43	304318	66.41 ug/L	96
24) Ethyl-tert-butyl ether...	5.490	59	70095	12.94 ug/L	95
25) c-1,2-Dichloroethene	5.794	61	221030	62.83 ug/L	98
26) 2,2-Dichloropropane	5.910	77	127143	61.30 ug/L	72
27) Bromochloromethane	6.014	49	145300	59.79 ug/L	91
28) Chloroform	6.105	83	267420	55.34 ug/L	98
29) Carbon Tetrachloride	6.233	117	159439	62.00 ug/L	95
30) Tetrahydrofuran	6.276	42	82643	61.59 ug/L	97
31) 1,1,1-Trichloroethane	6.313	97	205435	57.29 ug/L	95
33) 1,1-Dichloropropene	6.453	75	206166	62.41 ug/L	97
34) 2-Butanone (MEK)	6.447	43	254544	119.85 ug/L	98
35) Benzene	6.727	78	657475	60.93 ug/L	98
36) tert-Amyl methyl ether...	6.867	73	61641	11.83 ug/L	80
37) 1,2-Dichloroethane (EDC)	6.953	62	207503	52.51 ug/L	98
38) iso-Butyl Alcohol	7.014	43	390505	1513.34 ug/L	98
40) Trichloroethene (TCE)	7.380	130	165009	50.17 ug/L	96
41) tert-Amyl ethyl ether ...	7.660	59	45170	13.54 ug/L	88
42) Dibromomethane	7.855	93	106537	57.33 ug/L	89
43) 1,2-Dichloropropane	7.965	63	174417	60.81 ug/L	91
44) Bromodichloromethane	8.050	83	188929	60.82 ug/L	97
46) 2-Chloroethyl Vinyl Ether	8.709	63	75399	44.35 ug/L #	1
47) c-1,3-Dichloropropene	8.770	75	224852	68.80 ug/L	95
49) Toluene	9.019	91	[illegible]	53.89 ug/L	99

4/30/20 [initials]

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	148064	45.45	ug/L		92
51) 4-Methyl-2-Pentanone (...	9.410	43	494983	113.55	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	202313	55.72	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	160242	55.42	ug/L		96
54) Dibromochloromethane	9.769	129	151282	50.65	ug/L		99
55) 1,3-Dichloropropane	9.855	76	264551	59.29	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.983	107	162144	55.64	ug/L		98
57) 2-Hexanone	10.184	43	365112	110.75	ug/L		98
58) Chlorobenzene	10.446	112	430146	50.84	ug/L		99
59) Ethylbenzene	10.464	91	723698	54.99	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	135859	55.21	ug/L		96
61) m,p-Xylenes (2)	10.592	91	1089425	107.58	ug/L		99
62) o-Xylene	10.946	91	545910	53.79	ug/L		97
63) Styrene	10.989	104	443946	53.60	ug/L		100
64) Bromoform	11.019	173	109913	48.08	ug/L		97
65) Isopropylbenzene	11.196	105	634097	52.84	ug/L		98
68) Bromobenzene	11.507	156	178576	47.20	ug/L	#	83
69) n-Propylbenzene	11.519	91	753971	56.67	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.580	83	218708	58.56	ug/L		97
71) 2-Chlorotoluene	11.647	126	158246	53.78	ug/L		96
72) 1,3,5-Trimethylbenzene	11.671	105	514083	59.37	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	67976	51.53	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	24353	53.32	ug/L	#	91
75) 4-Chlorotoluene	11.775	91	475089	57.50	ug/L		96
76) tert-Butylbenzene	11.909	91	266112	56.93	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	509496	59.50	ug/L		97
78) sec-Butylbenzene	12.043	105	590118	61.20	ug/L		96
79) 4-Isopropyltoluene	12.147	119	475738	54.26	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	304760	53.16	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	311097	48.54	ug/L		96
82) n-Butylbenzene	12.464	91	421761	61.76	ug/L		95
83) 1,2-Dichlorobenzene	12.610	146	294861	52.28	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	45658	51.91	ug/L		86
85) Hexachlorobutadiene	13.811	223	32798	43.56	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	150152	50.48	ug/L		97
87) Naphthalene	14.177	128	510381	51.15	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	144488	48.91	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	155943	50.00	ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	433790	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	218062	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	153880	52.85	ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	494278	52.81	ug/L	0.00
48) Toluene-d8 (S)	8.965	98	579127	50.83	ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	167491	45.44	ug/L	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	168157	58.05	ug/L	99
3) Chloromethane	1.978	50	188663	64.61	ug/L	100
4) Vinyl Chloride	2.100	62	203097	64.23	ug/L	95
5) Bromomethane	2.533	96	110130	55.47	ug/L	99
6) Chloroethane	2.710	64	56347	51.46	ug/L	95
7) Trichlorofluoromethane	2.905	101	188165	46.98	ug/L	98
8) Ethanol	3.612	45	204153	2869.95	ug/L	85
9) 1,1-Dichloroethene	3.563	61	219956	55.35	ug/L	96
10) Carbon Disulfide	3.563	76	325731	62.93	ug/L	99
11) Freon 113	3.642	101	132348	52.39	ug/L	93
12) Iodomethane	3.728	142	70400	51.40	ug/L	93
13) Acrolein	4.008	56	40730	68.87	ug/L	94
14) Methylene Chloride	4.295	84	166231	58.73	ug/L	95
15) Acetone	4.374	43	147679	100.97	ug/L	98
16) t-1,2-Dichloroethene	4.484	61	216769	58.83	ug/L	97
17) n-Hexane	4.581	86	21842	66.61	ug/L #	25
18) Methyl-tert-butyl-ether	4.636	73	389222	63.22	ug/L	99
19) tert-Butanol (TBA)	4.801	59	1397478	3318.62	ug/L #	84
20) Diisopropyl ether (DIPE)	5.087	45	85733	12.15	ug/L	95
21) 1,1-Dichloroethane	5.191	63	283431	58.18	ug/L	99
22) Acrylonitrile	5.264	53	93340	62.60	ug/L	97
23) Vinyl Acetate	5.502	43	304318	66.41	ug/L	96
24) Ethyl-tert-butyl ether...	5.490	59	70095	12.94	ug/L	95
25) c-1,2-Dichloroethene	5.794	61	221030	62.83	ug/L	98
26) 2,2-Dichloropropane	5.910	77	127143	61.30	ug/L	72
27) Bromochloromethane	6.014	49	145300	59.79	ug/L	91
28) Chloroform	6.105	83	267420	55.34	ug/L	98
29) Carbon Tetrachloride	6.233	117	159439	62.00	ug/L	95
30) Tetrahydrofuran	6.276	42	82643	61.59	ug/L	97
31) 1,1,1-Trichloroethane	6.313	97	205435	57.29	ug/L	95
33) 1,1-Dichloropropene	6.453	75	206166	62.41	ug/L	97
34) 2-Butanone (MEK)	6.447	43	254544	119.85	ug/L	98
35) Benzene	6.727	78	657475	60.93	ug/L	98
36) tert-Amyl methyl ether...	6.867	73	61641	11.83	ug/L	80
37) 1,2-Dichloroethane (EDC)	6.953	62	207503	52.51	ug/L	98
38) iso-Butyl Alcohol	7.014	43	390505	1513.34	ug/L	98
40) Trichloroethene (TCE)	7.380	130	165009	50.17	ug/L	96
41) tert-Amyl ethyl ether ...	7.660	59	45170	13.54	ug/L	88
42) Dibromomethane	7.855	93	106537	57.33	ug/L	89
43) 1,2-Dichloropropane	7.965	63	174417	60.81	ug/L	91
44) Bromodichloromethane	8.050	83	188929	60.82	ug/L	97
46) 2-Chloroethyl Vinyl Ether	8.709	63	75399	44.35	ug/L #	1
47) c-1,3-Dichloropropene	8.770	75	224852	68.80	ug/L	95
49) Toluene	9.019	[illegible]	[illegible]	[illegible]	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

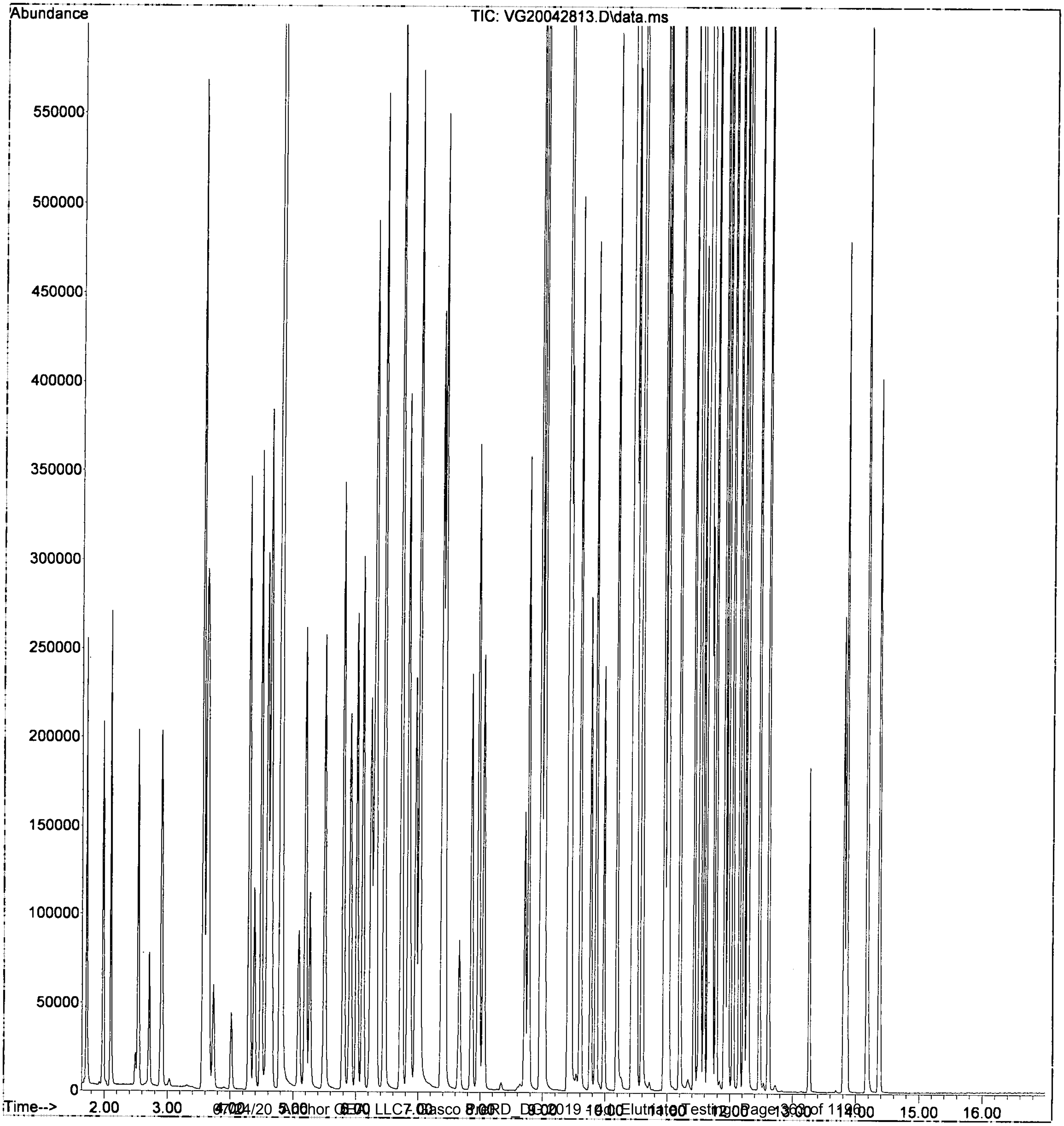
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	148064	45.45	ug/L		92
51) 4-Methyl-2-Pentanone (...	9.410	43	494983	113.55	ug/L		99
52) t-1,3-Dichloropropene	9.446	75	202313	55.72	ug/L		97
53) 1,1,2-Trichloroethane	9.599	97	160242	55.42	ug/L		96
54) Dibromochloromethane	9.769	129	151282	50.65	ug/L		99
55) 1,3-Dichloropropane	9.855	76	264551	59.29	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.983	107	162144	55.64	ug/L		98
57) 2-Hexanone	10.184	43	365112	110.75	ug/L		98
58) Chlorobenzene	10.446	112	430146	50.84	ug/L		99
59) Ethylbenzene	10.464	91	723698	54.99	ug/L		98
60) 1,1,1,2-Tetrachloroethane	10.501	131	135859	55.21	ug/L		96
61) m,p-Xylenes (2)	10.592	91	1089425	107.58	ug/L		99
62) o-Xylene	10.946	91	545910	53.79	ug/L		97
63) Styrene	10.989	104	443946	53.60	ug/L		100
64) Bromoform	11.019	173	109913	48.08	ug/L		97
65) Isopropylbenzene	11.196	105	634097	52.84	ug/L		98
68) Bromobenzene	11.507	156	178576	47.20	ug/L	#	83
69) n-Propylbenzene	11.519	91	753971	56.67	ug/L		95
70) 1,1,2,2-Tetrachloroethane	11.580	83	218708	58.56	ug/L		97
71) 2-Chlorotoluene	11.647	126	158246	53.78	ug/L		96
72) 1,3,5-Trimethylbenzene	11.671	105	514083	59.37	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	67976	51.53	ug/L	#	80
74) t-1,4-Dichloro-2-butene	11.720	88	24353	53.32	ug/L	#	91
75) 4-Chlorotoluene	11.775	91	475089	57.50	ug/L		96
76) tert-Butylbenzene	11.909	91	266112	56.93	ug/L		90
77) 1,2,4-Trimethylbenzene	11.964	105	509496	59.50	ug/L		97
78) sec-Butylbenzene	12.043	105	590118	61.20	ug/L		96
79) 4-Isopropyltoluene	12.147	119	475738	54.26	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	304760	53.16	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	311097	48.54	ug/L		96
82) n-Butylbenzene	12.464	91	421761	61.76	ug/L		95
83) 1,2-Dichlorobenzene	12.610	146	294861	52.28	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	13.263	157	45658	51.91	ug/L		86
85) Hexachlorobutadiene	13.811	223	32798	43.56	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	150152	50.48	ug/L		97
87) Naphthalene	14.177	128	510381	51.15	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	144488	48.91	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042813.D
Acq On : 28 Apr 2020 7:25 pm
Operator : PS
Sample : 0D28059-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 29 14:27:38 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042814.D
Acq On : 28 Apr 2020 7:52 pm
Operator : PS
Sample : 0D28059-IBL3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 09:38:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	131823	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	360516	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	150819	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	130265	49.70 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	429165	50.60 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	501547	50.96 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	124761	51.56 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	514	0.19 ug/L		71
3) Chloromethane	1.978	50	351	0.11 ug/L		89
4) Vinyl Chloride	2.094	62	269	0.08 ug/L	#	1
5) Bromomethane	2.533	96	260	0.13 ug/L	#	68
6) Chloroethane	2.722	64	55	Below Cal	#	47
7) Trichlorofluoromethane	2.905	101	409	0.12 ug/L		84
8) Ethanol	3.612	45	325	4.76 ug/L	#	55
9) 1,1-Dichloroethene	3.569	61	468	0.13 ug/L		80
10) Carbon Disulfide	3.569	76	1853	0.40 ug/L		95
11) Freon 113	3.649	101	400	0.17 ug/L		91
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	4.130	56	10	0.02 ug/L	#	1
14) Methylene Chloride	4.295	84	2933	0.98 ug/L		85
15) Acetone	4.386	43	1587	1.17 ug/L		86
16) t-1,2-Dichloroethene	4.478	61	650	0.18 ug/L		78
17) n-Hexane	4.575	86	22	0.07 ug/L	#	80
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.813	59	642	1.61 ug/L	#	73
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	5.185	63	107	0.02 ug/L	#	50
22) Acrylonitrile	5.289	53	10	0.01 ug/L	#	14
23) Vinyl Acetate	5.478	43	11	1.13 ug/L		74
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	5.801	61	258	0.07 ug/L		92
26) 2,2-Dichloropropane	5.904	77	10	0.01 ug/L	#	44
27) Bromochloromethane	6.026	49	122	0.05 ug/L	#	32
28) Chloroform	6.112	83	147	0.03 ug/L	#	49
29) Carbon Tetrachloride	6.246	117	30	0.01 ug/L	#	13
30) Tetrahydrofuran	6.282	42	10	0.01 ug/L	#	30
31) 1,1,1-Trichloroethane	6.313	97	61	0.02 ug/L	#	25
33) 1,1-Dichloropropene	6.459	75	345	0.11 ug/L	#	39
34) 2-Butanone (MEK)	6.386	43	20	0.01 ug/L		52
35) Benzene	6.733	78	537	0.05 ug/L		83
36) tert-Amyl methyl ether...	6.831	73	222	0.04 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.971	62	122	0.03 ug/L	#	49
38) iso-Butyl Alcohol	7.038	43	11	0.04 ug/L	#	22
40) Trichloroethene (TCE)	7.380	130	329	0.11 ug/L		68
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	7.861	93	106	0.06 ug/L	#	18
43) 1,2-Dichloropropane	7.983	63	10	0.00 ug/L	#	13
44) Bromodichloromethane	8.056	83	10	0.00 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	8.599	63	10	0.76 ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	57	0.60 ug/L		57
49) Toluene	9.020	91	1	0.09 ug/L		89

NK 4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042814.D
Acq On : 28 Apr 2020 7:52 pm
Operator : PS
Sample : 0D28059-IBL3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 09:38:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

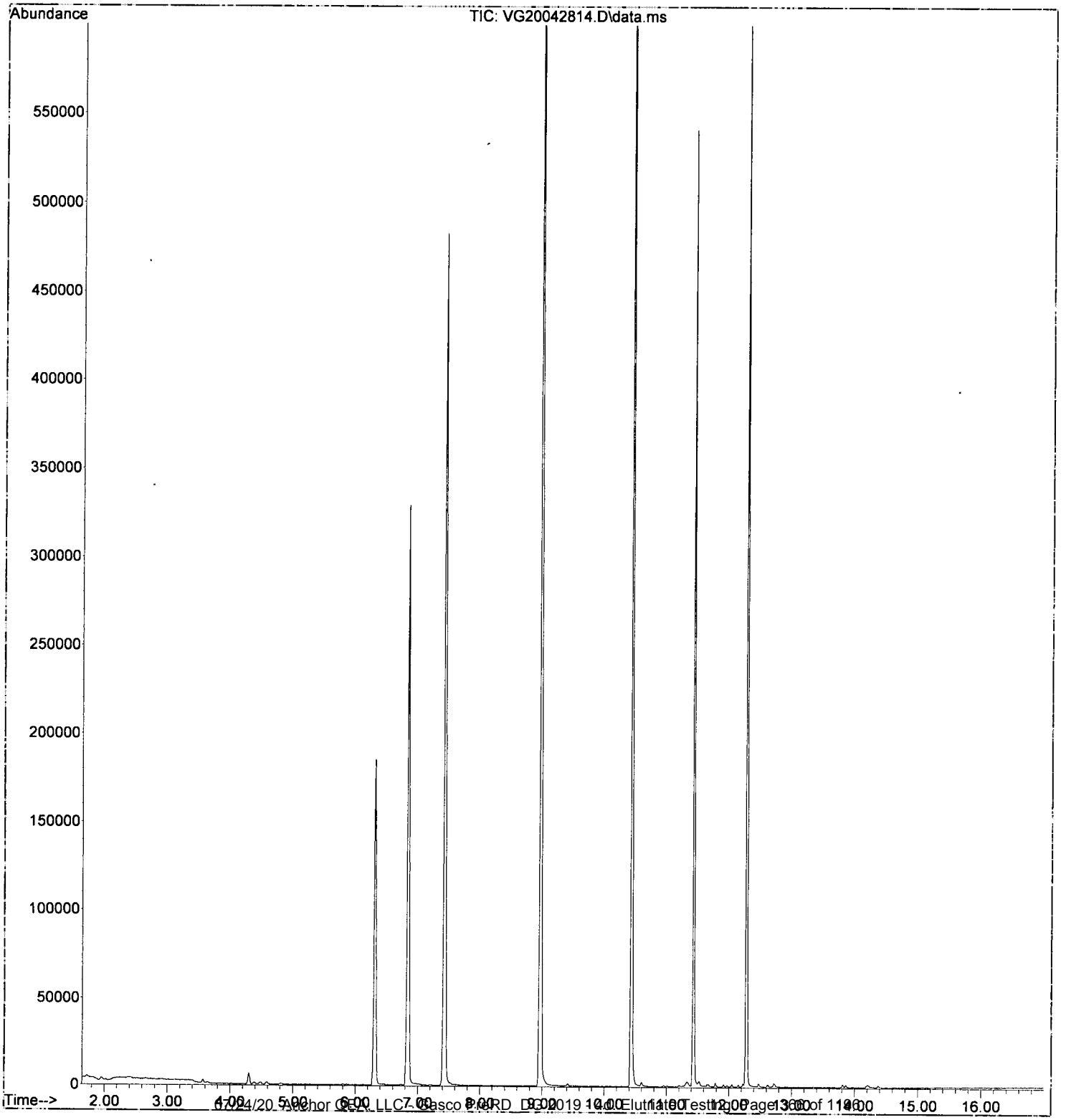
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	477	0.20 ug/L	88
51) 4-Methyl-2-Pentanone (...	9.434	43	30	0.01 ug/L #	43
52) t-1,3-Dichloropropene	9.477	75	100	0.38 ug/L #	45
53) 1,1,2-Trichloroethane	9.587	97	11	0.00 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	9.867	76	52	0.01 ug/L #	65
56) 1,2-Dibromoethane (EDB)	10.019	107	10	0.00 ug/L	96
57) 2-Hexanone	10.221	43	10	0.00 ug/L #	32
58) Chlorobenzene	10.446	112	1010	0.14 ug/L #	16
59) Ethylbenzene	10.477	91	1069	0.09 ug/L	89
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	10.599	91	1565	0.32 ug/L	97
62) o-Xylene	10.952	91	426	0.14 ug/L	80
63) Styrene	11.007	104	285	0.25 ug/L	79
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	11.202	105	644	0.25 ug/L	84
68) Bromobenzene	11.513	156	369	0.15 ug/L #	74
69) n-Propylbenzene	11.525	91	1753	0.18 ug/L	86
70) 1,1,2,2-Tetrachloroethane	11.592	83	19	0.01 ug/L #	24
71) 2-Chlorotoluene	11.653	126	211	0.10 ug/L	86
72) 1,3,5-Trimethylbenzene	11.671	105	715	0.11 ug/L	74
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.781	91	960	0.16 ug/L	97
76) tert-Butylbenzene	11.915	91	442	0.13 ug/L #	62
77) 1,2,4-Trimethylbenzene	11.970	105	598	0.25 ug/L	91
78) sec-Butylbenzene	12.049	105	1128	0.15 ug/L	88
79) 4-Isopropyltoluene	12.147	119	754	0.28 ug/L	97
80) 1,3-Dichlorobenzene	12.226	146	842	0.21 ug/L	95
81) 1,4-Dichlorobenzene	12.287	146	1286	0.29 ug/L #	71
82) n-Butylbenzene	12.476	91	1288	0.24 ug/L	92
83) 1,2-Dichlorobenzene	12.623	146	617	0.17 ug/L	83
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	13.811	223	212	0.46 ug/L	89
86) 1,2,4-Trichlorobenzene	13.860	180	650	0.58 ug/L	97
87) Naphthalene	14.189	128	979	1.04 ug/L	95
88) 1,2,3-Trichlorobenzene	14.378	180	472	0.25 ug/L	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042814.D
Acq On : 28 Apr 2020 7:52 pm
Operator : PS
Sample : 0D28059-IBL3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 09:38:20 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.831	99	161668	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	457980	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	233282	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.301	111	160585	53.20	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	510262	52.59	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	605813	50.36	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	176212	44.69	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	315312	104.99	ug/L		98
3) Chloromethane	1.978	50	352785	116.54	ug/L		99
4) Vinyl Chloride	2.100	62	384111	117.18	ug/L		95
5) Bromomethane	2.533	96	201722	98.00	ug/L		98
6) Chloroethane	2.704	64	97391	90.93	ug/L		96
7) Trichlorofluoromethane	2.899	101	341980	82.36	ug/L		98
8) Ethanol	3.624	45	203485	2759.27	ug/L		85
9) 1,1-Dichloroethene	3.563	61	431318	104.70	ug/L		98
10) Carbon Disulfide	3.563	76	664668	123.87	ug/L		99
11) Freon 113	3.636	101	253439	96.78	ug/L		93
12) Iodomethane	3.722	142	174901	102.30	ug/L		92
13) Acrolein	4.008	56	92724	151.23	ug/L		99
14) Methylene Chloride	4.295	84	321685	109.62	ug/L		96
15) Acetone	4.374	43	308105	203.19	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	433938	113.59	ug/L		98
17) n-Hexane	4.581	86	43493	127.94	ug/L	#	29
18) Methyl-tert-butyl-ether	4.636	73	812679	127.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	1446115	3312.51	ug/L	#	83
20) Diisopropyl ether (DIPE)	5.087	45	85631	11.70	ug/L		95
21) 1,1-Dichloroethane	5.191	63	559811	110.85	ug/L		99
22) Acrylonitrile	5.258	53	199568	129.10	ug/L		97
23) Vinyl Acetate	5.502	43	716527	135.80	ug/L		96
24) Ethyl-tert-butyl ether...	5.490	59	72497	12.91	ug/L		97
25) c-1,2-Dichloroethene	5.795	61	444480	121.87	ug/L		98
26) 2,2-Dichloropropane	5.904	77	256825	119.45	ug/L		74
27) Bromochloromethane	6.008	49	287820	114.25	ug/L		90
28) Chloroform	6.106	83	532744	106.33	ug/L		97
29) Carbon Tetrachloride	6.234	117	323005	121.15	ug/L		97
30) Tetrahydrofuran	6.276	42	179471	129.01	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	407916	109.74	ug/L		96
33) 1,1-Dichloropropene	6.453	75	407326	118.94	ug/L		98
34) 2-Butanone (MEK)	6.447	43	545218	247.63	ug/L		99
35) Benzene	6.721	78	1302053	116.40	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	62759	11.62	ug/L		80
37) 1,2-Dichloroethane (EDC)	6.953	62	415815	101.50	ug/L		99
38) iso-Butyl Alcohol	7.014	43	851953	3184.70	ug/L		99
40) Trichloroethene (TCE)	7.380	130	321823	94.39	ug/L		97
41) tert-Amyl ethyl ether ...	7.654	59	46262	13.38	ug/L		86
42) Dibromomethane	7.849	93	217366	112.83	ug/L		88
43) 1,2-Dichloropropane	7.965	63	350668	117.94	ug/L		91
44) Bromodichloromethane	8.044	83	393467	122.17	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.709	63	176791	98.50	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	477036	138.25	ug/L		94
49) Toluene	9.028	92	1349153	104.67	ug/L		99

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	298184	86.70	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.410	43	1051104	228.38	ug/L		97
52) t-1,3-Dichloropropene	9.446	75	438237	107.38	ug/L		98
53) 1,1,2-Trichloroethane	9.599	97	325366	106.59	ug/L		95
54) Dibromochloromethane	9.763	129	324009	97.51	ug/L		98
55) 1,3-Dichloropropane	9.855	76	543367	115.34	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	338306	109.96	ug/L		98
57) 2-Hexanone	10.184	43	791292	227.35	ug/L		99
58) Chlorobenzene	10.446	112	866291	96.98	ug/L		100
59) Ethylbenzene	10.464	91	1452579	104.54	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	285345	109.83	ug/L		96
61) m,p-Xylenes (2)	10.592	91	2216310	202.97	ug/L		100
62) o-Xylene	10.946	91	1120662	101.46	ug/L		97
63) Styrene	10.989	104	925198	102.80	ug/L		98
64) Bromoform	11.019	173	245900	94.46	ug/L		98
65) Isopropylbenzene	11.196	105	1303456	99.81	ug/L		98
68) Bromobenzene	11.507	156	369547	91.31	ug/L		86
69) n-Propylbenzene	11.519	91	1547444	108.71	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.580	83	473849	118.60	ug/L		96
71) 2-Chlorotoluene	11.647	126	327467	104.03	ug/L		97
72) 1,3,5-Trimethylbenzene	11.665	105	1065161	114.99	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	141478	100.26	ug/L	#	84
74) t-1,4-Dichloro-2-butene	11.714	88	55724	107.26	ug/L	#	85
75) 4-Chlorotoluene	11.775	91	977949	110.54	ug/L		97
76) tert-Butylbenzene	11.909	91	553693	110.72	ug/L		91
77) 1,2,4-Trimethylbenzene	11.964	105	1047842	114.39	ug/L		98
78) sec-Butylbenzene	12.043	105	1227821	119.02	ug/L		96
79) 4-Isopropyltoluene	12.147	119	998151	103.02	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	624132	101.77	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	635898	92.74	ug/L		97
82) n-Butylbenzene	12.464	91	868364	118.85	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	599072	99.29	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.263	157	100386	106.69	ug/L		91
85) Hexachlorobutadiene	13.811	223	65865	81.77	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	314733	98.90	ug/L		96
87) Naphthalene	14.177	128	1104031	100.36	ug/L		100
88) 1,2,3-Trichlorobenzene	14.372	180	301675	95.45	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.831	99	161668	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	457980	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	233282	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.301	111	160585	53.20	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	510262	52.59	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	605813	50.36	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	176212	44.69	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	315312	104.99	ug/L		98
3) Chloromethane	1.978	50	352785	116.54	ug/L		99
4) Vinyl Chloride	2.100	62	384111	117.18	ug/L		95
5) Bromomethane	2.533	96	201722	98.00	ug/L		98
6) Chloroethane	2.704	64	97391	90.93	ug/L		96
7) Trichlorofluoromethane	2.899	101	341980	82.36	ug/L		98
8) Ethanol	3.624	45	203485	2759.27	ug/L		85
9) 1,1-Dichloroethene	3.563	61	431318	104.70	ug/L		98
10) Carbon Disulfide	3.563	76	664668	123.87	ug/L		99
11) Freon 113	3.636	101	253439	96.78	ug/L		93
12) Iodomethane	3.722	142	174901	102.30	ug/L		92
13) Acrolein	4.008	56	92724	151.23	ug/L		99
14) Methylene Chloride	4.295	84	321685	109.62	ug/L		96
15) Acetone	4.374	43	308105	203.19	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	433938	113.59	ug/L		98
17) n-Hexane	4.581	86	43493	127.94	ug/L	#	29
18) Methyl-tert-butyl-ether	4.636	73	812679	127.33	ug/L		98
19) tert-Butanol (TBA)	4.801	59	1446115	3312.51	ug/L	#	83
20) Diisopropyl ether (DIPE)	5.087	45	85631	11.70	ug/L		95
21) 1,1-Dichloroethane	5.191	63	559811	110.85	ug/L		99
22) Acrylonitrile	5.258	53	199568	129.10	ug/L		97
23) Vinyl Acetate	5.502	43	716527	135.30	ug/L		96
24) Ethyl-tert-butyl ether...	5.490	59	72497	12.91	ug/L		97
25) c-1,2-Dichloroethene	5.795	61	444480	121.87	ug/L		98
26) 2,2-Dichloropropane	5.904	77	256825	119.45	ug/L		74
27) Bromochloromethane	6.008	49	287820	114.25	ug/L		90
28) Chloroform	6.106	83	532744	106.33	ug/L		97
29) Carbon Tetrachloride	6.234	117	323005	121.15	ug/L		97
30) Tetrahydrofuran	6.276	42	179471	129.01	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	407916	109.74	ug/L		96
33) 1,1-Dichloropropene	6.453	75	407326	118.94	ug/L		98
34) 2-Butanone (MEK)	6.447	43	545218	247.63	ug/L		99
35) Benzene	6.721	78	1302053	116.40	ug/L		99
36) tert-Amyl methyl ether...	6.868	73	62759	11.62	ug/L		80
37) 1,2-Dichloroethane (EDC)	6.953	62	415815	101.50	ug/L		99
38) iso-Butyl Alcohol	7.014	43	851953	3184.70	ug/L		99
40) Trichloroethene (TCE)	7.380	130	321823	94.39	ug/L		97
41) tert-Amyl ethyl ether ...	7.654	59	46262	13.38	ug/L		86
42) Dibromomethane	7.849	93	217366	112.83	ug/L		88
43) 1,2-Dichloropropane	7.965	63	350668	117.94	ug/L		91
44) Bromodichloromethane	8.044	83	393467	122.17	ug/L		97
46) 2-Chloroethyl Vinyl Ether	8.709	63	176791	98.50	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	477036	138.25	ug/L		94
49) Toluene	9.020	91	1349153	101.65	ug/L		99

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

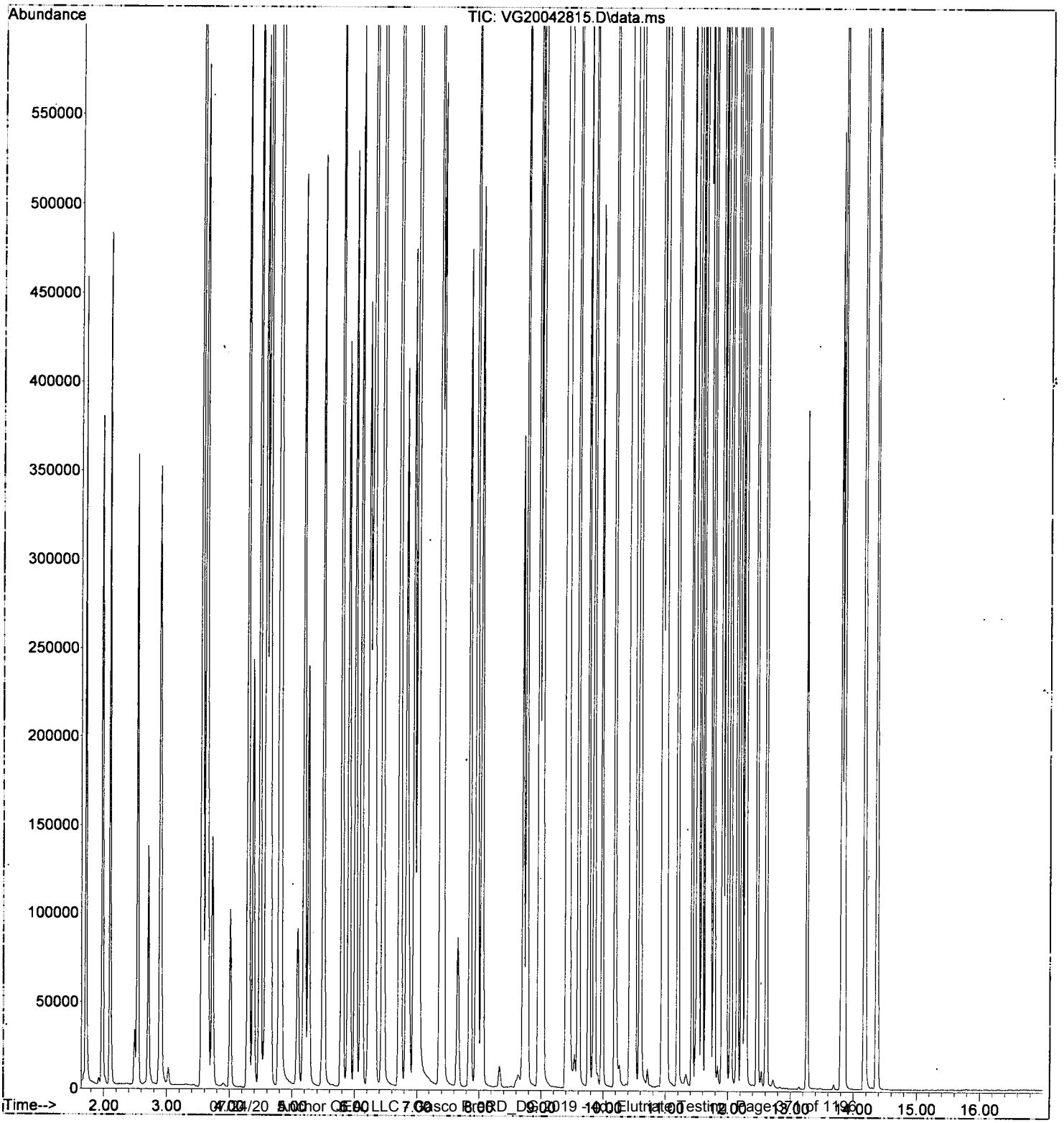
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	298184	86.70	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.410	43	1051104	228.38	ug/L		97
52) t-1,3-Dichloropropene	9.446	75	438237	107.38	ug/L		98
53) 1,1,2-Trichloroethane	9.599	97	325366	106.59	ug/L		95
54) Dibromochloromethane	9.763	129	324009	97.51	ug/L		98
55) 1,3-Dichloropropane	9.855	76	543367	115.34	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	338306	109.96	ug/L		98
57) 2-Hexanone	10.184	43	791292	227.35	ug/L		99
58) Chlorobenzene	10.446	112	866291	96.98	ug/L		100
59) Ethylbenzene	10.464	91	1452579	104.54	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	285345	109.83	ug/L		96
61) m,p-Xylenes (2)	10.592	91	2216310	202.97	ug/L		100
62) o-Xylene	10.946	91	1120662	101.46	ug/L		97
63) Styrene	10.989	104	925198	102.80	ug/L		98
64) Bromoform	11.019	173	245900	94.46	ug/L		98
65) Isopropylbenzene	11.196	105	1303456	99.81	ug/L		98
68) Bromobenzene	11.507	156	369547	91.81	ug/L		86
69) n-Propylbenzene	11.519	91	1547444	108.71	ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.580	83	473849	118.60	ug/L		96
71) 2-Chlorotoluene	11.647	126	327467	104.03	ug/L		97
72) 1,3,5-Trimethylbenzene	11.665	105	1065161	114.99	ug/L		93
73) 1,2,3-Trichloropropane	11.690	110	141478	100.26	ug/L	#	84
74) t-1,4-Dichloro-2-butene	11.714	88	55724	107.26	ug/L	#	85
75) 4-Chlorotoluene	11.775	91	977949	110.64	ug/L		97
76) tert-Butylbenzene	11.909	91	553693	110.72	ug/L		91
77) 1,2,4-Trimethylbenzene	11.964	105	1047842	114.39	ug/L		98
78) sec-Butylbenzene	12.043	105	1227821	119.02	ug/L		96
79) 4-Isopropyltoluene	12.147	119	998151	103.02	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	624132	101.77	ug/L		98
81) 1,4-Dichlorobenzene	12.287	146	635898	92.74	ug/L		97
82) n-Butylbenzene	12.464	91	868364	118.85	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	599072	99.29	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.263	157	100386	106.69	ug/L		91
85) Hexachlorobutadiene	13.811	223	65865	81.77	ug/L		97
86) 1,2,4-Trichlorobenzene	13.854	180	314733	98.90	ug/L		96
87) Naphthalene	14.177	128	1104031	100.36	ug/L		100
88) 1,2,3-Trichlorobenzene	14.372	180	301675	95.45	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042815.D
Acq On : 28 Apr 2020 8:19 pm
Operator : PS
Sample : 0D28059CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 29 14:27:41 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042816.D
Acq On : 28 Apr 2020 8:47 pm
Operator : PS
Sample : 0D28059-IBL4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 30 09:38:24 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	149264	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	412020	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	177396	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	146258	49.28 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	485846	50.59 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	571012	50.76 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	146610	51.52 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	1040	0.34 ug/L		95
3) Chloromethane	1.978	50	677	0.18 ug/L		88
4) Vinyl Chloride	2.100	62	598	0.16 ug/L		56
5) Bromomethane	2.533	96	325	0.15 ug/L		89
6) Chloroethane	2.704	64	185	Below Cal	#	29
7) Trichlorofluoromethane	2.911	101	737	0.20 ug/L		87
8) Ethanol	3.618	45	495	6.40 ug/L		65
9) 1,1-Dichloroethene	3.569	61	817	0.20 ug/L		89
10) Carbon Disulfide	3.569	76	3936	0.76 ug/L		96
11) Freon 113	3.636	101	714	0.27 ug/L		78
12) Iodomethane	3.734	142	109	4.90 ug/L	#	42
13) Acrolein	4.045	56	10	0.01 ug/L	#	1
14) Methylene Chloride	4.295	84	3962	1.17 ug/L		86
15) Acetone	4.380	43	1729	1.13 ug/L		99
16) t-1,2-Dichloroethene	4.490	61	1336	0.33 ug/L		93
17) n-Hexane	4.588	86	80	0.21 ug/L	#	54
18) Methyl-tert-butyl-ether	4.630	73	133	0.02 ug/L		57
19) tert-Butanol (TBA)	4.807	59	499	1.10 ug/L	#	43
20) Diisopropyl ether (DIPE)	5.069	45	12	0.00 ug/L	#	33
21) 1,1-Dichloroethane	5.191	63	311	0.06 ug/L		77
22) Acrylonitrile	5.307	53	35	0.02 ug/L	#	14
23) Vinyl Acetate	5.520	43	10	1.13 ug/L	#	1
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	5.807	61	564	0.14 ug/L		96
26) 2,2-Dichloropropane	5.904	77	21	0.01 ug/L	#	1
27) Bromochloromethane	6.014	49	244	0.08 ug/L		78
28) Chloroform	6.106	83	287	0.06 ug/L		81
29) Carbon Tetrachloride	6.246	117	93	0.04 ug/L	#	13
30) Tetrahydrofuran	6.288	42	110	0.08 ug/L	#	61
31) 1,1,1-Trichloroethane	6.319	97	69	0.02 ug/L	#	58
33) 1,1-Dichloropropene	6.459	75	789	0.23 ug/L		91
34) 2-Butanone (MEK)	6.453	43	10	0.00 ug/L		52
35) Benzene	6.740	78	1133	0.10 ug/L		94
36) tert-Amyl methyl ether...	6.825	73	237	0.04 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.959	62	281	0.07 ug/L	#	48
38) iso-Butyl Alcohol	7.026	43	117	0.41 ug/L	#	52
40) Trichloroethene (TCE)	7.386	130	712	0.22 ug/L		89
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	7.861	93	219	0.11 ug/L	#	61
43) 1,2-Dichloropropane	7.965	63	28	0.01 ug/L	#	40
44) Bromodichloromethane	8.062	83	90	0.03 ug/L	#	63
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	8.788	75	263	0.65 ug/L		87
49) Toluene	9.020	91	2121	0.16 ug/L		99

NR 4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042816.D
Acq On : 28 Apr 2020 8:47 pm
Operator : PS
Sample : 0D28059-IBL4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 30 09:38:24 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

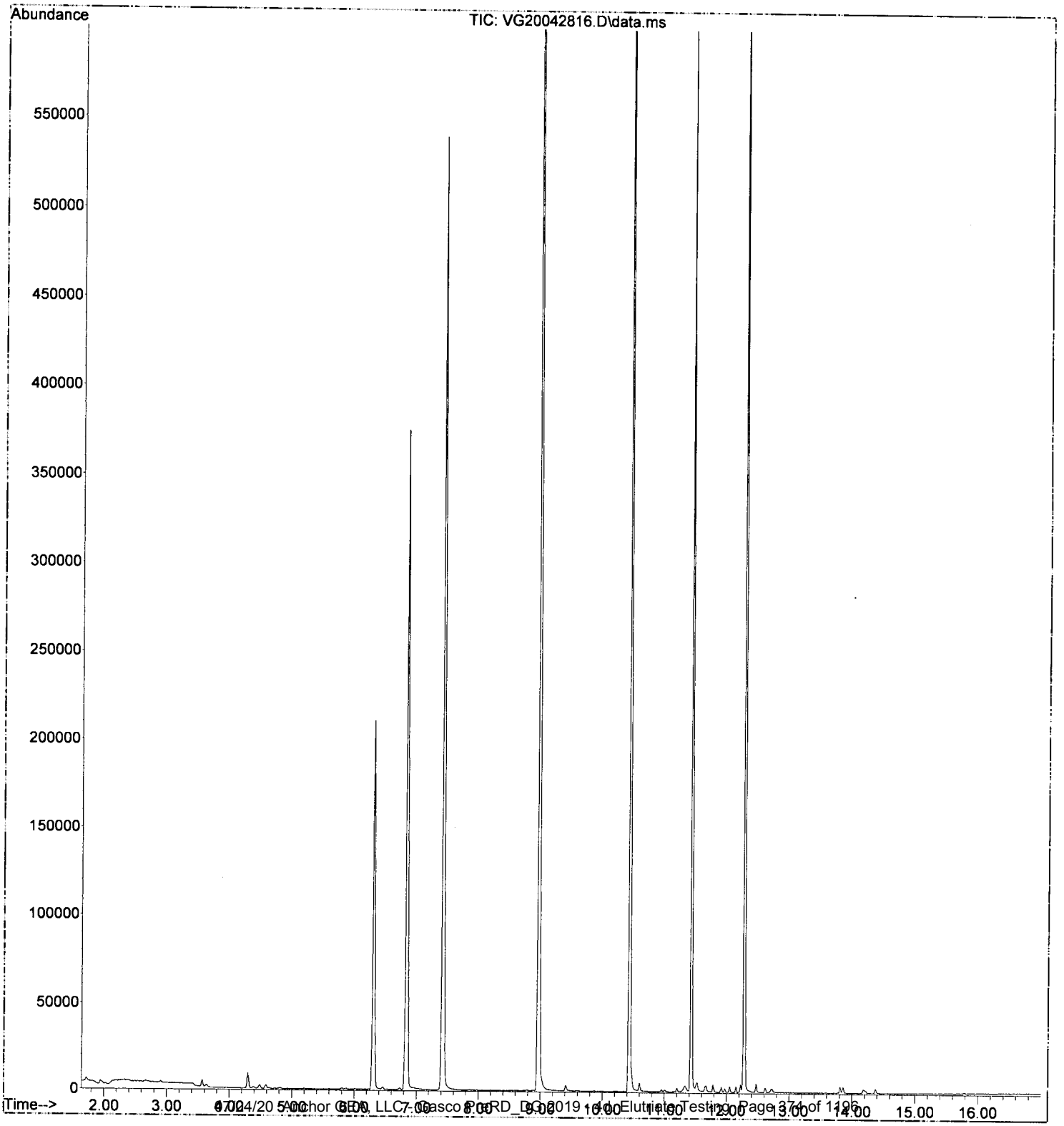
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.404	166	1002	0.37 ug/L	99
51) 4-Methyl-2-Pentanone (...	9.422	43	294	0.07 ug/L #	43
52) t-1,3-Dichloropropene	9.465	75	314	0.44 ug/L	67
53) 1,1,2-Trichloroethane	9.611	97	139	0.05 ug/L #	12
54) Dibromochloromethane	9.763	129	10	0.16 ug/L #	17
55) 1,3-Dichloropropane	9.867	76	188	0.04 ug/L	86
56) 1,2-Dibromoethane (EDB)	10.007	107	98	0.04 ug/L	97
57) 2-Hexanone	10.214	43	137	0.04 ug/L #	32
58) Chlorobenzene	10.446	112	1960	0.24 ug/L #	57
59) Ethylbenzene	10.471	91	2281	0.18 ug/L	90
60) 1,1,1,2-Tetrachloroethane	10.501	131	48	0.02 ug/L #	1
61) m,p-Xylenes (2)	10.599	91	2991	0.44 ug/L	94
62) o-Xylene	10.952	91	1007	0.19 ug/L	89
63) Styrene	11.007	104	791	0.31 ug/L	90
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	11.202	105	1446	0.31 ug/L	96
68) Bromobenzene	11.507	156	665	0.23 ug/L	87
69) n-Propylbenzene	11.525	91	3449	0.30 ug/L	92
70) 1,1,2,2-Tetrachloroethane	11.586	83	146	0.04 ug/L	80
71) 2-Chlorotoluene	11.647	126	502	0.21 ug/L	88
72) 1,3,5-Trimethylbenzene	11.672	105	1509	0.20 ug/L	85
73) 1,2,3-Trichloropropane	11.696	110	37	0.03 ug/L	93
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	11.775	91	2191	0.31 ug/L	83
76) tert-Butylbenzene	11.909	91	887	0.23 ug/L #	74
77) 1,2,4-Trimethylbenzene	11.970	105	1342	0.34 ug/L	82
78) sec-Butylbenzene	12.049	105	2217	0.25 ug/L	93
79) 4-Isopropyltoluene	12.147	119	1761	0.40 ug/L	98
80) 1,3-Dichlorobenzene	12.220	146	1807	0.39 ug/L	93
81) 1,4-Dichlorobenzene	12.287	146	2354	0.45 ug/L #	74
82) n-Butylbenzene	12.470	91	3006	0.48 ug/L	88
83) 1,2-Dichlorobenzene	12.616	146	1245	0.28 ug/L	86
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	13.811	223	500	0.93 ug/L	95
86) 1,2,4-Trichlorobenzene	13.854	180	1424	0.86 ug/L	88
87) Naphthalene	14.183	128	2157	1.16 ug/L	97
88) 1,2,3-Trichlorobenzene	14.378	180	1097	0.50 ug/L	93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042816.D
Acq On : 28 Apr 2020 8:47 pm
Operator : PS
Sample : 0D28059-IBL4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 30 09:38:24 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 15:14:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	174876	50.00	ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	511754	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	246154	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.306	111	179176	54.88	ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	566135	53.94	ug/L	0.00
48) Toluene-d8 (S)	8.965	98	661083	49.18	ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.427	174	191987	46.14	ug/L	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	721756	222.18	ug/L	98
3) Chloromethane	1.978	50	787402	240.46	ug/L	99
4) Vinyl Chloride	2.094	62	883409	249.14	ug/L	95
5) Bromomethane	2.533	96	441017	198.07	ug/L	98
6) Chloroethane	2.704	64	193450	198.53	ug/L	97
7) Trichlorofluoromethane	2.886	101	760605	169.35	ug/L	99
8) Ethanol	0.000		0	N.D.	d	
9) 1,1-Dichloroethene	3.557	61	1013280	227.40	ug/L	98
10) Carbon Disulfide	3.557	76	1647933	283.92	ug/L	99
11) Freon 113	3.630	101	619841	218.81	ug/L	94
12) Iodomethane	3.722	142	484444	203.03	ug/L	93
13) Acrolein	4.008	56	200485	302.29	ug/L	97
14) Methylene Chloride	4.295	84	711544	224.17	ug/L	97
15) Acetone	4.380	43	670089	408.53	ug/L	96
16) t-1,2-Dichloroethene	4.478	61	1007829	243.89	ug/L	98
17) n-Hexane	4.581	86	105147	285.93	ug/L #	37
18) Methyl-tert-butyl-ether	4.636	73	1858846	269.24	ug/L	99
19) tert-Butanol (TBA)	0.000		0	N.D.	d	
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	d	
21) 1,1-Dichloroethane	5.191	63	1278947	234.12	ug/L	99
22) Acrylonitrile	5.258	53	430086	257.20	ug/L	97
23) Vinyl Acetate	5.502	43	1558199	236.98	ug/L	96
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d	
25) c-1,2-Dichloroethene	5.794	61	1012684	256.69	ug/L	99
26) 2,2-Dichloropropane	5.904	77	622935	267.84	ug/L	81
27) Bromochloromethane	6.008	49	622772	228.54	ug/L	92
28) Chloroform	6.105	83	1216725	224.51	ug/L	96
29) Carbon Tetrachloride	6.233	117	809357	280.65	ug/L	96
30) Tetrahydrofuran	6.276	42	398049	264.51	ug/L	99
31) 1,1,1-Trichloroethane	6.313	97	987730	245.65	ug/L	96
33) 1,1-Dichloropropene	6.453	75	975429	263.30	ug/L	99
34) 2-Butanone (MEK)	6.447	43	1181311	496.00	ug/L	98
35) Benzene	6.721	78	3008884	248.67	ug/L	98
36) tert-Amyl methyl ether...	0.000		0	N.D.	d	
37) 1,2-Dichloroethane (EDC)	6.953	62	923686	208.44	ug/L	99
38) iso-Butyl Alcohol	7.020	43	1783101	6162.02	ug/L	97
40) Trichloroethene (TCE)	7.379	130	762043	206.62	ug/L	98
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	d	
42) Dibromomethane	7.849	93	492139	236.16	ug/L	89
43) 1,2-Dichloropropane	7.965	63	803265	249.75	ug/L	90
44) Bromodichloromethane	8.044	83	918596	263.68	ug/L	98
46) 2-Chloroethyl Vinyl Ether	8.708	63	431655	215.22	ug/L #	1
47) c-1,3-Dichloropropene	8.769	75	1126694	292.21	ug/L	93
49) Toluene	9.019	91	2112088	210....	ug/L	96

4/30/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 15:14:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	743359	193.43	ug/L		97
51) 4-Methyl-2-Pentanone (...	9.410	43	2206651	429.08	ug/L		94
52) t-1,3-Dichloropropene	9.446	75	1034541	204.26	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	743055	217.85	ug/L		95
54) Dibromochloromethane	9.763	129	775840	190.19	ug/L		99
55) 1,3-Dichloropropane	9.855	76	1220547	231.85	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	782130	227.50	ug/L		99
57) 2-Hexanone	10.184	43	1645799	423.17	ug/L		98
58) Chlorobenzene	10.446	112	2006540	201.02	ug/L		99
59) Ethylbenzene	10.464	91	3390116	218.34	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	678121	233.59	ug/L		95
61) m,p-Xylenes (2)	10.592	91	5118451	402.13	ug/L		99
62) o-Xylene	10.946	91	2610008	199.39	ug/L		98
63) Styrene	10.989	104	2122456	200.58	ug/L		98
64) Bromoform	11.019	173	580388	177.16	ug/L		97
65) Isopropylbenzene	11.196	105	3059960	197.99	ug/L		99
68) Bromobenzene	11.507	156	850318	199.11	ug/L		89
69) n-Propylbenzene	11.519	91	3545698	236.07	ug/L		97
70) 1,1,2,2-Tetrachloroethane	11.580	83	994174	235.82	ug/L		97
71) 2-Chlorotoluene	11.647	126	757592	228.09	ug/L		99
72) 1,3,5-Trimethylbenzene	11.671	105	2427844	248.40	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	296100	198.86	ug/L		85
74) t-1,4-Dichloro-2-butene	11.714	88	122105	203.82	ug/L	#	84
75) 4-Chlorotoluene	11.775	91	2189587	234.76	ug/L		98
76) tert-Butylbenzene	11.909	91	1274708	241.57	ug/L		93
77) 1,2,4-Trimethylbenzene	11.964	105	2375385	245.75	ug/L		98
78) sec-Butylbenzene	12.043	105	2807398	257.91	ug/L		97
79) 4-Isopropyltoluene	12.147	119	2273833	208.37	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	1380557	213.34	ug/L		99
81) 1,4-Dichlorobenzene	12.287	146	1398040	193.23	ug/L		98
82) n-Butylbenzene	12.464	91	1938953	251.51	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	1294660	203.36	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.262	157	220807	222.40	ug/L		92
85) Hexachlorobutadiene	13.811	223	152484	179.41	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	708955	211.13	ug/L		96
87) Naphthalene	14.177	128	2456596	201.87	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	678103	203.33	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 14:27:44 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	174876	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	511754	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	246154	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.306	111	179176	54.88	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	566135	53.94	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	661083	49.18	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.427	174	191987	46.14	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	721756	222.18	ug/L		98
3) Chloromethane	1.978	50	787402	240.46	ug/L		99
4) Vinyl Chloride	2.094	62	883409	249.14	ug/L		95
5) Bromomethane	2.533	96	441017	198.07	ug/L		98
6) Chloroethane	2.704	64	193450	198.53	ug/L		97
7) Trichlorofluoromethane	2.886	101	760605	169.35	ug/L		99
8) Ethanol	3.642	45	1512	18.95	ug/L		83
9) 1,1-Dichloroethene	3.557	61	1013280	227.40	ug/L		98
10) Carbon Disulfide	3.557	76	1647933	283.92	ug/L		99
11) Freon 113	3.630	101	619841	218.81	ug/L		94
12) Iodomethane	3.722	142	484444	203.03	ug/L		93
13) Acrolein	4.008	56	200485	302.29	ug/L		97
14) Methylene Chloride	4.295	84	711544	224.17	ug/L		97
15) Acetone	4.380	43	670089	408.53	ug/L		96
16) t-1,2-Dichloroethene	4.478	61	1007829	243.89	ug/L		98
17) n-Hexane	4.581	86	105147	285.93	ug/L	#	37
18) Methyl-tert-butyl-ether	4.636	73	1858846	269.24	ug/L		99
19) tert-Butanol (TBA)	4.813	59	913	1.93	ug/L	#	1
20) Diisopropyl ether (DIPE)	5.087	45	80	0.01	ug/L	#	1
21) 1,1-Dichloroethane	5.191	63	1278947	234.12	ug/L		99
22) Acrylonitrile	5.258	53	430086	257.20	ug/L		97
23) Vinyl Acetate	5.502	43	1558199	236.98	ug/L		96
24) Ethyl-tert-butyl ether...	5.502	59	226	0.04	ug/L	#	1
25) c-1,2-Dichloroethene	5.794	61	1012684	256.69	ug/L		99
26) 2,2-Dichloropropane	5.904	77	622935	267.84	ug/L		81
27) Bromochloromethane	6.008	49	622772	228.54	ug/L		92
28) Chloroform	6.105	83	1216725	224.51	ug/L		96
29) Carbon Tetrachloride	6.233	117	809357	280.65	ug/L		96
30) Tetrahydrofuran	6.276	42	398049	264.51	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	987730	245.65	ug/L		96
33) 1,1-Dichloropropene	6.453	75	975429	263.30	ug/L		99
34) 2-Butanone (MEK)	6.447	43	1181311	496.00	ug/L		98
35) Benzene	6.721	78	3008884	248.67	ug/L		98
36) tert-Amyl methyl ether...	6.831	73	561	0.10	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.953	62	923686	208.44	ug/L		99
38) iso-Butyl Alcohol	7.020	43	1783101	6162.02	ug/L		97
40) Trichloroethene (TCE)	7.379	130	762043	206.62	ug/L		98
41) tert-Amyl ethyl ether ...	7.654	59	263	0.07	ug/L	#	21
42) Dibromomethane	7.849	93	492139	236.16	ug/L		89
43) 1,2-Dichloropropane	7.965	63	803265	249.75	ug/L		90
44) Bromodichloromethane	8.044	83	918596	263.68	ug/L		98
46) 2-Chloroethyl Vinyl Ether	8.708	63	431655	215.22	ug/L	#	1
47) c-1,3-Dichloropropene	8.769	75	1126694	292.21	ug/L		93
49) Toluene	9.019	91	3134208	210.11	ug/L		96

4/29/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 14:27:44 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration

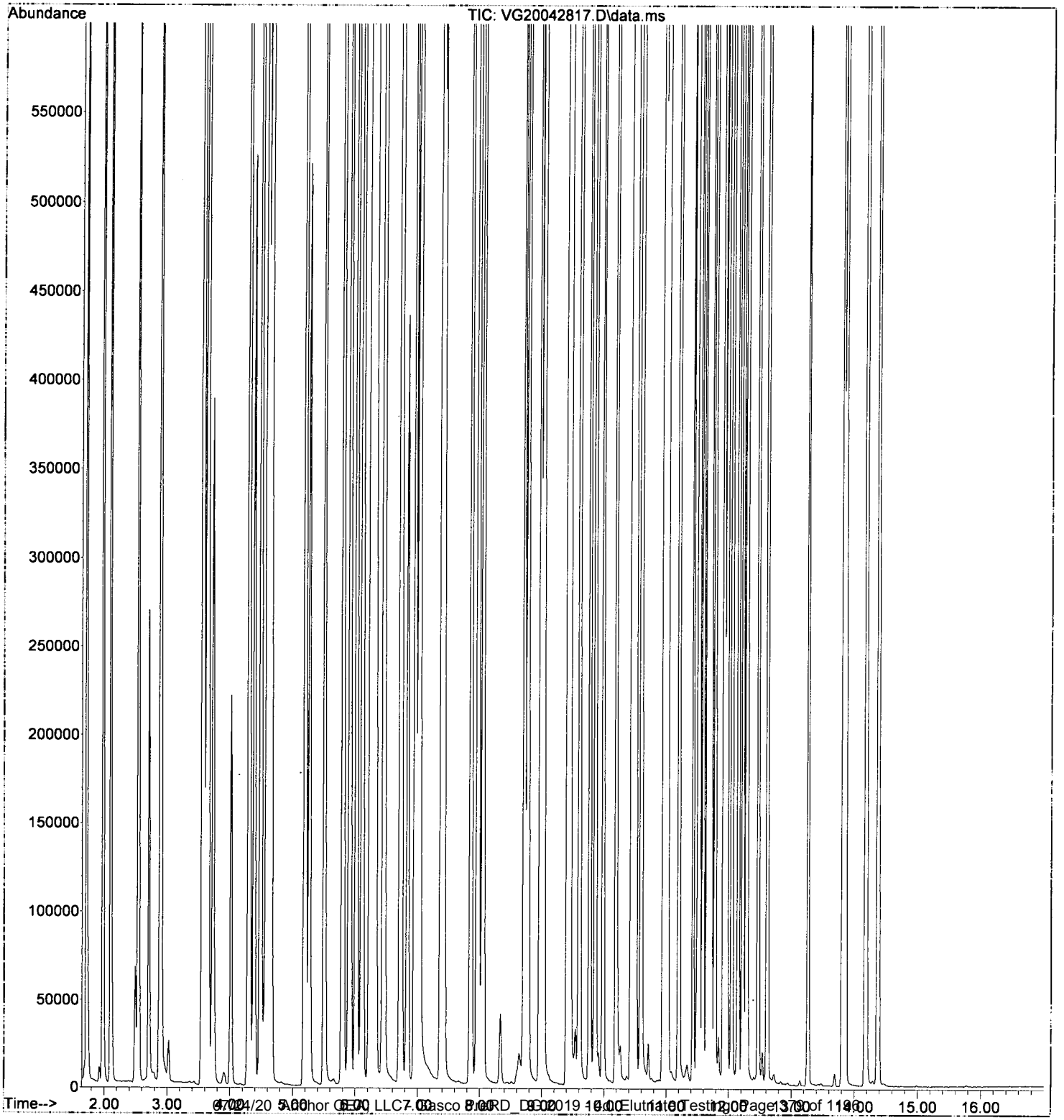
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	743359	193.43	ug/L		97
51) 4-Methyl-2-Pentanone (...	9.410	43	2206651	429.08	ug/L		94
52) t-1,3-Dichloropropene	9.446	75	1034541	204.26	ug/L		99
53) 1,1,2-Trichloroethane	9.599	97	743055	217.85	ug/L		95
54) Dibromochloromethane	9.763	129	775840	190.19	ug/L		99
55) 1,3-Dichloropropane	9.855	76	1220547	231.85	ug/L		99
56) 1,2-Dibromoethane (EDB)	9.977	107	782130	227.50	ug/L		99
57) 2-Hexanone	10.184	43	1645799	423.17	ug/L		98
58) Chlorobenzene	10.446	112	2006540	201.02	ug/L		99
59) Ethylbenzene	10.464	91	3390116	218.34	ug/L		99
60) 1,1,1,2-Tetrachloroethane	10.501	131	678121	233.59	ug/L		95
61) m,p-Xylenes (2)	10.592	91	5118451	402.13	ug/L		99
62) o-Xylene	10.946	91	2610008	199.89	ug/L		98
63) Styrene	10.989	104	2122456	200.58	ug/L		98
64) Bromoform	11.019	173	580388	177.16	ug/L		97
65) Isopropylbenzene	11.196	105	3059960	197.99	ug/L		99
68) Bromobenzene	11.507	156	850318	199.11	ug/L		89
69) n-Propylbenzene	11.519	91	3545698	236.07	ug/L		97
70) 1,1,2,2-Tetrachloroethane	11.580	83	994174	235.82	ug/L		97
71) 2-Chlorotoluene	11.647	126	757592	228.09	ug/L		99
72) 1,3,5-Trimethylbenzene	11.671	105	2427844	248.40	ug/L		95
73) 1,2,3-Trichloropropane	11.690	110	296100	198.86	ug/L		85
74) t-1,4-Dichloro-2-butene	11.714	88	122105	203.82	ug/L	#	84
75) 4-Chlorotoluene	11.775	91	2189587	234.76	ug/L		98
76) tert-Butylbenzene	11.909	91	1274708	241.57	ug/L		93
77) 1,2,4-Trimethylbenzene	11.964	105	2375385	245.75	ug/L		98
78) sec-Butylbenzene	12.043	105	2807398	257.91	ug/L		97
79) 4-Isopropyltoluene	12.147	119	2273833	208.37	ug/L		99
80) 1,3-Dichlorobenzene	12.220	146	1380557	213.34	ug/L		99
81) 1,4-Dichlorobenzene	12.287	146	1398040	193.23	ug/L		98
82) n-Butylbenzene	12.464	91	1938953	251.51	ug/L		96
83) 1,2-Dichlorobenzene	12.610	146	1294660	203.36	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	13.262	157	220807	222.40	ug/L		92
85) Hexachlorobutadiene	13.811	223	152484	179.41	ug/L		96
86) 1,2,4-Trichlorobenzene	13.854	180	708955	211.13	ug/L		96
87) Naphthalene	14.177	128	2456596	201.87	ug/L		99
88) 1,2,3-Trichlorobenzene	14.372	180	678103	203.83	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042817.D
Acq On : 28 Apr 2020 9:14 pm
Operator : PS
Sample : 0D28059-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 29 15:14:22 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 07:12:52 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042818.D
Acq On : 28 Apr 2020 9:41 pm
Operator : PS
Sample : 0D28059-IBL5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 30 09:38:27 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	6.837	99	147546	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	10.434	117	394020	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	170285	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	6.307	111	144732	49.34 ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	474103	49.94 ug/L	0.00
48) Toluene-d8 (S)	8.965	98	553722	51.47 ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	140321	51.36 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.716	85	2060	0.67 ug/L	98
3) Chloromethane	1.978	50	950	0.26 ug/L	93
4) Vinyl Chloride	2.100	62	1131	0.31 ug/L	88
5) Bromomethane	2.533	96	474	0.22 ug/L	81
6) Chloroethane	2.716	64	387	Below Cal #	60
7) Trichlorofluoromethane	2.911	101	1359	0.37 ug/L	91
8) Ethanol	3.612	45	347	4.54 ug/L	79
9) 1,1-Dichloroethene	3.563	61	1592	0.39 ug/L	99
10) Carbon Disulfide	3.569	76	8526	1.66 ug/L	98
11) Freon 113	3.637	101	1688	0.65 ug/L	94
12) Iodomethane	3.734	142	222	4.99 ug/L	88
13) Acrolein	4.027	56	159	0.22 ug/L #	42
14) Methylene Chloride	4.295	84	3817	1.14 ug/L	93
15) Acetone	4.380	43	2125	1.40 ug/L	86
16) t-1,2-Dichloroethene	4.490	61	2556	0.64 ug/L	92
17) n-Hexane	4.588	86	212	0.57 ug/L #	1
18) Methyl-tert-butyl-ether	4.642	73	234	0.04 ug/L	90
19) tert-Butanol (TBA)	4.807	59	166	0.37 ug/L #	1
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	5.197	63	632	0.12 ug/L	82
22) Acrylonitrile	5.283	53	213	0.13 ug/L	66
23) Vinyl Acetate	5.569	43	19	1.13 ug/L	74
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	5.795	61	1252	0.32 ug/L	91
26) 2,2-Dichloropropane	5.910	77	36	0.02 ug/L #	1
27) Bromochloromethane	6.014	49	508	0.18 ug/L	89
28) Chloroform	6.106	83	584	0.11 ug/L	88
29) Carbon Tetrachloride	6.234	117	303	0.12 ug/L	84
30) Tetrahydrofuran	6.288	42	247	0.17 ug/L #	41
31) 1,1,1-Trichloroethane	6.313	97	364	0.10 ug/L	89
33) 1,1-Dichloropropene	6.453	75	1759	0.51 ug/L	91
34) 2-Butanone (MEK)	6.441	43	10	0.00 ug/L	52
35) Benzene	6.727	78	1974	0.17 ug/L	96
36) tert-Amyl methyl ether...	6.831	73	265	0.05 ug/L #	1
37) 1,2-Dichloroethane (EDC)	6.959	62	482	0.12 ug/L	88
38) iso-Butyl Alcohol	7.057	43	459	1.64 ug/L	86
40) Trichloroethene (TCE)	7.392	130	1344	0.42 ug/L	96
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	7.867	93	399	0.20 ug/L #	68
43) 1,2-Dichloropropane...	7.971	63	260	0.08 ug/L	80
44) Bromodichloromethane	8.050	83	276	0.09 ug/L	84
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	8.788	75	478	0.71 ug/L #	67
49) Toluene	9.020	91	3682	0.30 ug/L	95

NK 4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042818.D
Acq On : 28 Apr 2020 9:41 pm
Operator : PS
Sample : 0D28059-IBL5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 30 09:38:27 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

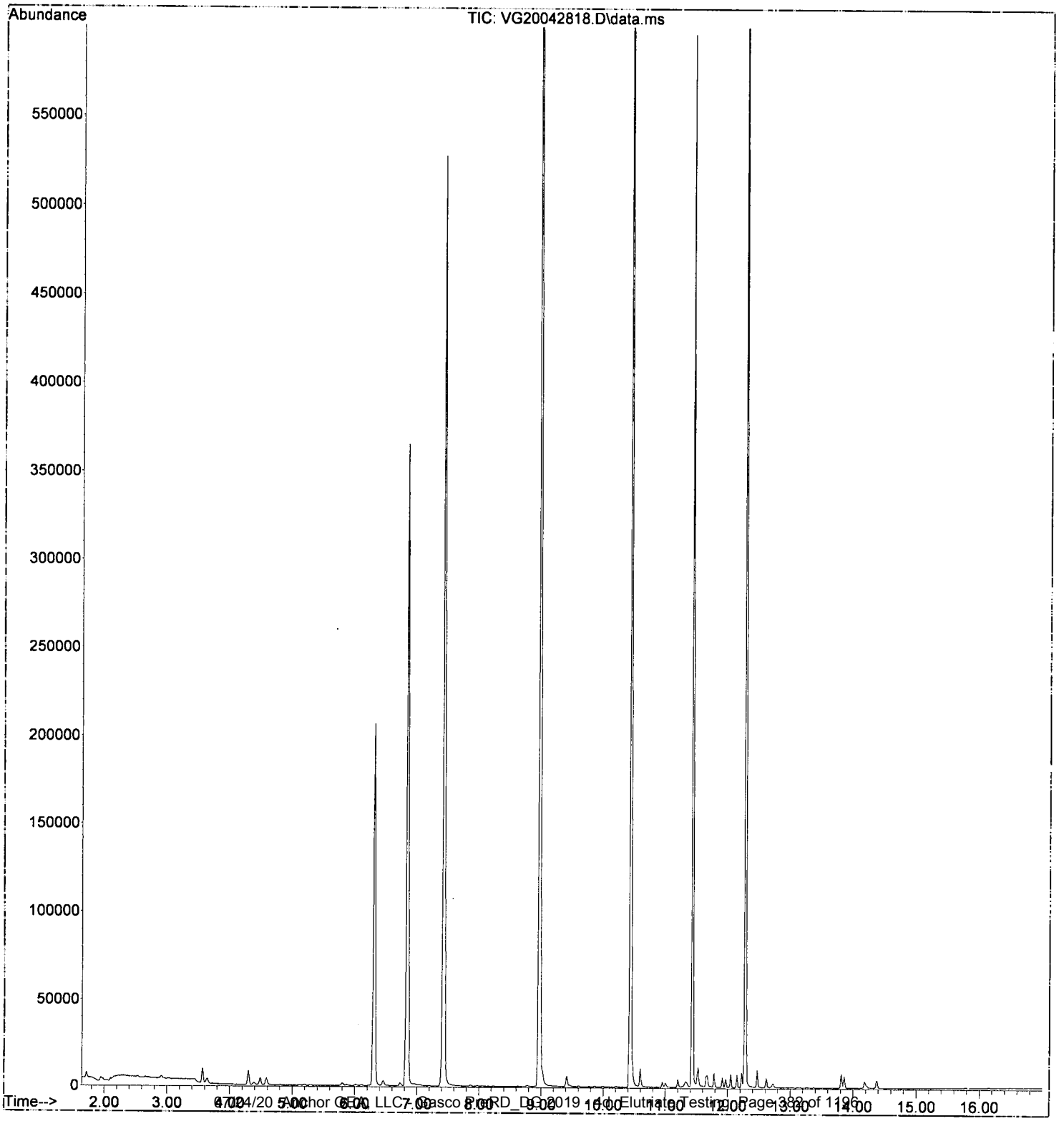
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	1999	0.78	ug/L		97
51) 4-Methyl-2-Pentanone (...	9.422	43	695	0.17	ug/L		80
52) t-1,3-Dichloropropene	9.459	75	551	0.51	ug/L		86
53) 1,1,2-Trichloroethane	9.605	97	185	0.07	ug/L	#	73
54) Dibromochloromethane	9.776	129	153	0.22	ug/L		76
55) 1,3-Dichloropropane	9.861	76	352	0.08	ug/L		90
56) 1,2-Dibromoethane (EDB)	9.989	107	373	0.14	ug/L		75
57) 2-Hexanone	10.196	43	470	0.16	ug/L		69
58) Chlorobenzene	10.446	112	3577	0.46	ug/L		79
59) Ethylbenzene	10.471	91	4277	0.35	ug/L		100
60) 1,1,1,2-Tetrachloroethane	10.501	131	158	0.07	ug/L	#	1
61) m,p-Xylenes (2)	10.599	91	6431	0.82	ug/L		91
62) o-Xylene	10.952	91	1967	0.30	ug/L		95
63) Styrene	11.001	104	1607	0.42	ug/L		96
64) Bromoform	11.019	173	76	0.25	ug/L		85
65) Isopropylbenzene	11.202	105	2886	0.45	ug/L		94
68) Bromobenzene	11.513	156	1197	0.43	ug/L		85
69) n-Propylbenzene	11.525	91	6605	0.60	ug/L		92
70) 1,1,2,2-Tetrachloroethane	11.586	83	261	0.08	ug/L		81
71) 2-Chlorotoluene	11.653	126	1078	0.47	ug/L		85
72) 1,3,5-Trimethylbenzene	11.672	105	2977	0.41	ug/L		96
73) 1,2,3-Trichloropropane	11.684	110	76	0.07	ug/L		80
74) t-1,4-Dichloro-2-butene	11.726	88	10	0.03	ug/L	#	2
75) 4-Chlorotoluene	11.781	91	4042	0.59	ug/L		92
76) tert-Butylbenzene	11.909	91	1642	0.44	ug/L		89
77) 1,2,4-Trimethylbenzene	11.970	105	2842	0.56	ug/L		95
78) sec-Butylbenzene	12.050	105	4553	0.54	ug/L		90
79) 4-Isopropyltoluene	12.147	119	3579	0.68	ug/L		93
80) 1,3-Dichlorobenzene	12.220	146	3207	0.72	ug/L		94
81) 1,4-Dichlorobenzene	12.287	146	4209	0.84	ug/L		85
82) n-Butylbenzene	12.470	91	5394	0.91	ug/L		86
83) 1,2-Dichlorobenzene	12.617	146	2203	0.52	ug/L		91
84) 1,2-Dibromo-3-Chloropr...	13.275	157	37	0.05	ug/L	#	30
85) Hexachlorobutadiene	13.811	223	997	1.93	ug/L		90
86) 1,2,4-Trichlorobenzene	13.860	180	2600	1.41	ug/L		97
87) Naphthalene	14.183	128	3853	1.40	ug/L		91
88) 1,2,3-Trichlorobenzene	14.372	180	1867	0.88	ug/L		92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042818.D
Acq On : 28 Apr 2020 9:41 pm
Operator : PS
Sample : 0D28059-IBL5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 30 09:38:27 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042819.D
Acq On : 28 Apr 2020 10:08 pm
Operator : PS
Sample : 0D28059-IBL6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 30 09:38:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	153210	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.434	117	424904	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	182088	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	151643	49.78 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	502866	51.01 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	589418	50.81 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	151014	51.70 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	870	0.27 ug/L		96
3) Chloromethane	1.978	50	432	0.11 ug/L		92
4) Vinyl Chloride	2.100	62	389	0.10 ug/L		59
5) Bromomethane	2.533	96	260	0.12 ug/L		88
6) Chloroethane	2.728	64	249	Below Cal	#	47
7) Trichlorofluoromethane	2.917	101	635	0.17 ug/L		95
8) Ethanol	3.606	45	335	4.22 ug/L	#	29
9) 1,1-Dichloroethene	3.569	61	540	0.13 ug/L		92
10) Carbon Disulfide	3.569	76	3405	0.64 ug/L		96
11) Freon 113	3.649	101	758	0.28 ug/L		78
12) Iodomethane	3.734	142	94	4.89 ug/L	#	47
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	4.301	84	4027	1.15 ug/L		98
15) Acetone	4.386	43	2049	1.30 ug/L		91
16) t-1,2-Dichloroethene	4.490	61	912	0.22 ug/L		89
17) n-Hexane	4.594	86	38	0.10 ug/L	#	6
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.813	59	379	0.82 ug/L	#	7
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	5.203	63	103	0.02 ug/L	#	50
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	5.807	61	408	0.10 ug/L		73
26) 2,2-Dichloropropane	5.929	77	20	0.01 ug/L	#	32
27) Bromochloromethane	6.014	49	145	0.05 ug/L	#	28
28) Chloroform	6.112	83	156	0.03 ug/L		81
29) Carbon Tetrachloride	6.252	117	37	0.01 ug/L	#	10
30) Tetrahydrofuran	6.282	42	10	0.01 ug/L	#	40
31) 1,1,1-Trichloroethane	6.319	97	91	0.02 ug/L		77
33) 1,1-Dichloropropene	6.453	75	643	0.18 ug/L		93
34) 2-Butanone (MEK)	6.416	43	10	0.00 ug/L		52
35) Benzene	6.739	78	683	0.06 ug/L		91
36) tert-Amyl methyl ether...	6.849	73	221	0.04 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.965	62	105	0.03 ug/L	#	49
38) iso-Butyl Alcohol	7.063	43	11	0.04 ug/L	#	22
40) Trichloroethene (TCE)	7.386	130	627	0.19 ug/L		74
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	7.867	93	91	0.04 ug/L	#	63
43) 1,2-Dichloropropane	7.977	63	41	0.01 ug/L	#	40
44) Bromodichloromethane	8.050	83	78	0.02 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	8.782	75	155	0.62 ug/L	#	71
49) Toluene	9.013	91	1457	0.11 ug/L		85

NK
4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042819.D
Acq On : 28 Apr 2020 10:08 pm
Operator : PS
Sample : 0D28059-IBL6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 30 09:38:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

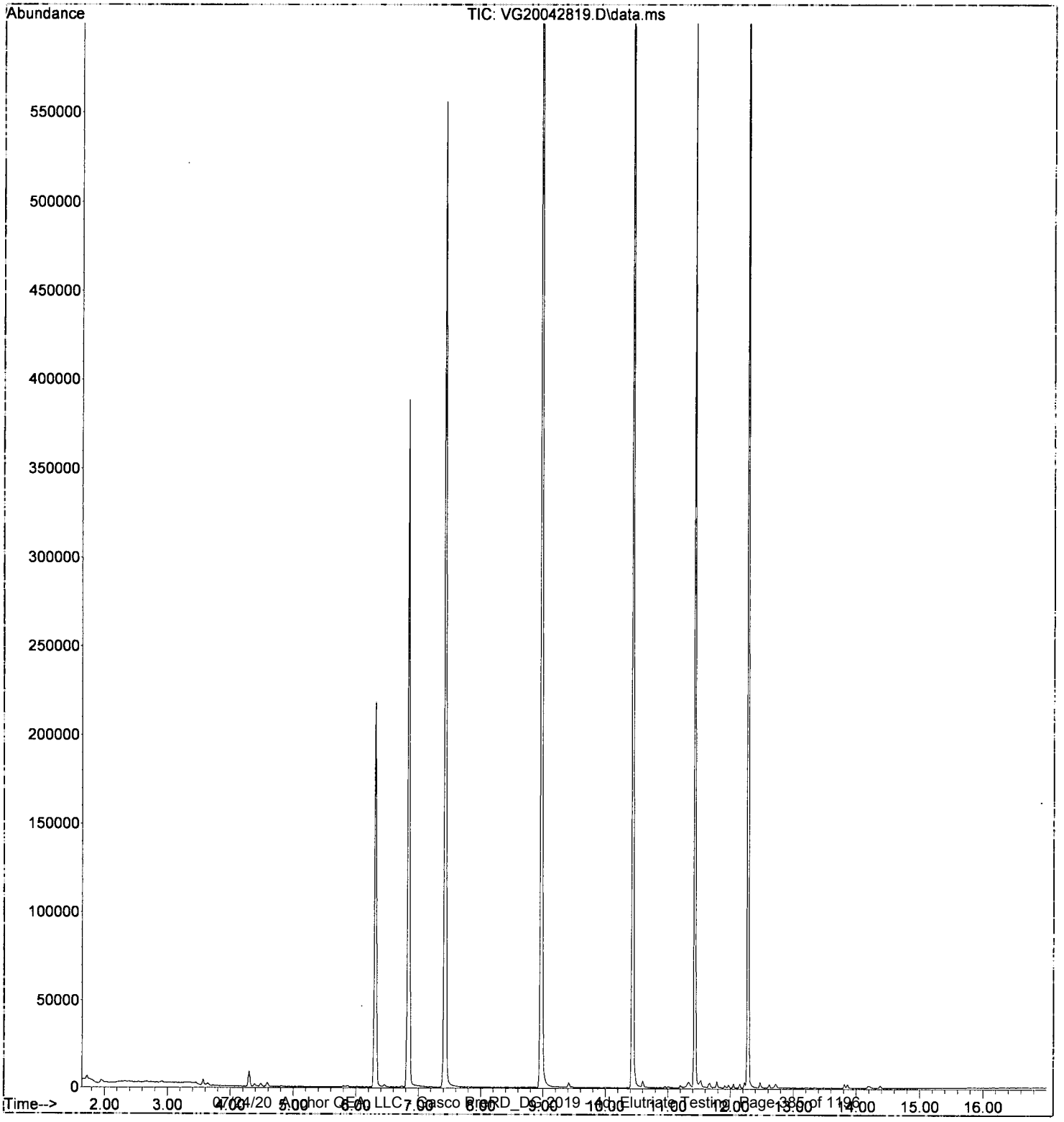
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.416	166	917	0.33	ug/L		96
51) 4-Methyl-2-Pentanone (...	9.428	43	44	0.01	ug/L	#	43
52) t-1,3-Dichloropropene	9.452	75	173	0.40	ug/L	#	45
53) 1,1,2-Trichloroethane	9.617	97	23	0.01	ug/L		85
54) Dibromochloromethane	0.000		0	N.D.			
55) 1,3-Dichloropropane	9.861	76	132	0.03	ug/L	#	70
56) 1,2-Dibromoethane (EDB)	9.989	107	153	0.05	ug/L		84
57) 2-Hexanone	10.312	43	10	0.00	ug/L	#	32
58) Chlorobenzene	10.440	112	1227	0.14	ug/L	#	1
59) Ethylbenzene	10.470	91	1612	0.12	ug/L		91
60) 1,1,1,2-Tetrachloroethane	10.507	131	31	0.01	ug/L	#	1
61) m,p-Xylenes (2)	10.598	91	2528	0.39	ug/L		96
62) o-Xylene	10.958	91	611	0.15	ug/L		84
63) Styrene	11.013	104	583	0.28	ug/L		95
64) Bromoform	11.031	173	10	0.21	ug/L	#	37
65) Isopropylbenzene	11.202	105	952	0.27	ug/L		91
68) Bromobenzene	11.513	156	432	0.14	ug/L		83
69) n-Propylbenzene	11.531	91	2616	0.22	ug/L		93
70) 1,1,2,2-Tetrachloroethane	11.586	83	103	0.03	ug/L	#	60
71) 2-Chlorotoluene	11.659	126	393	0.16	ug/L	#	71
72) 1,3,5-Trimethylbenzene	11.671	105	1086	0.14	ug/L		87
73) 1,2,3-Trichloropropane	0.000		0	N.D.			
74) t-1,4-Dichloro-2-butene	11.732	88	12	0.03	ug/L	#	44
75) 4-Chlorotoluene	11.781	91	1679	0.23	ug/L		87
76) tert-Butylbenzene	11.909	91	522	0.13	ug/L	#	73
77) 1,2,4-Trimethylbenzene	11.970	105	1108	0.30	ug/L		96
78) sec-Butylbenzene	12.049	105	1601	0.18	ug/L		96
79) 4-Isopropyltoluene	12.147	119	1313	0.34	ug/L		97
80) 1,3-Dichlorobenzene	12.226	146	1318	0.28	ug/L		84
81) 1,4-Dichlorobenzene	12.287	146	1830	0.34	ug/L		81
82) n-Butylbenzene	12.470	91	2037	0.32	ug/L		85
83) 1,2-Dichlorobenzene	12.616	146	887	0.20	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.			
85) Hexachlorobutadiene	13.811	223	319	0.58	ug/L	#	71
86) 1,2,4-Trichlorobenzene	13.854	180	928	0.63	ug/L		81
87) Naphthalene	14.183	128	1265	1.05	ug/L		79
88) 1,2,3-Trichlorobenzene	14.378	180	710	0.31	ug/L	#	68

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042819.D
Acq On : 28 Apr 2020 10:08 pm
Operator : PS
Sample : 0D28059-IBL6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 30 09:38:30 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	6.837	99	159516	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	441218	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	214893	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	6.307	111	155293	48.96	ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	504406	49.15	ug/L		0.00
48) Toluene-d8 (S)	8.965	98	599023	49.73	ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	168485	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.716	85	61355	18.50	ug/L		98
3) Chloromethane	1.978	50	72113	18.34	ug/L		100
4) Vinyl Chloride	2.100	62	76580	19.49	ug/L		95
5) Bromomethane	2.533	96	41839	17.82	ug/L		99
6) Chloroethane	2.704	64	18308	14.76	ug/L		93
7) Trichlorofluoromethane	2.899	101	78865	19.72	ug/L		98
8) Ethanol	3.624	45	104339	1263.28	ug/L		84
9) 1,1-Dichloroethene	3.563	61	75693	17.04	ug/L		96
10) Carbon Disulfide	3.563	76	96998	17.46	ug/L		99
11) Freon 113	3.636	101	49579	17.67	ug/L		93
12) Iodomethane	3.722	142	23295	21.57	ug/L		94
13) Acrolein	4.008	56	16167	20.79	ug/L		99
14) Methylene Chloride	4.295	84	70870	19.50	ug/L		98
15) Acetone	4.380	43	64898	39.62	ug/L		97
16) t-1,2-Dichloroethene	4.484	61	83741	19.30	ug/L		97
17) n-Hexane	4.581	86	7545	18.67	ug/L	#	26
18) Methyl-tert-butyl-ether	4.636	73	151947	21.57	ug/L		98
19) tert-Butanol (TBA)	4.801	59	725153	1500.93	ug/L	#	76
20) Diisopropyl ether (DIPE)	5.087	45	45236	5.69	ug/L		95
21) 1,1-Dichloroethane	5.191	63	115257	20.13	ug/L		99
22) Acrylonitrile	5.264	53	37569	20.81	ug/L		95
23) Vinyl Acetate	5.502	43	97037	17.41	ug/L		95
24) Ethyl-tert-butyl ether...	5.490	59	35255	5.74	ug/L		94
25) c-1,2-Dichloroethene	5.795	61	87258	20.92	ug/L		97
26) 2,2-Dichloropropane	5.904	77	43887	18.19	ug/L	#	65
27) Bromochloromethane	6.008	49	59271	18.89	ug/L		86
28) Chloroform	6.105	83	110895	20.12	ug/L		97
29) Carbon Tetrachloride	6.233	117	60263	21.60	ug/L		97
30) Tetrahydrofuran	6.282	42	33845	21.78	ug/L		99
31) 1,1,1-Trichloroethane	6.313	97	80606	20.20	ug/L		94
33) 1,1-Dichloropropene	6.453	75	82110	22.13	ug/L		98
34) 2-Butanone (MEK)	6.453	43	101928	42.53	ug/L		98
35) Benzene	6.721	78	266648	21.06	ug/L		99
36) tert-Amyl methyl ether...	6.874	73	31484	5.18	ug/L		76
37) 1,2-Dichloroethane (EDC)	6.953	62	87437	20.31	ug/L		96
38) iso-Butyl Alcohol	7.020	43	156286	517.93	ug/L		97
40) Trichloroethene (TCE)	7.380	130	70624	20.19	ug/L		97
41) tert-Amyl ethyl ether ...	7.660	59	23370	5.75	ug/L		88
42) Dibromomethane	7.855	93	42818	19.97	ug/L		87
43) 1,2-Dichloropropane	7.965	63	71057	20.84	ug/L		94
44) Bromodichloromethane	8.044	83	74470	21.75	ug/L		100
46) 2-Chloroethyl Vinyl Ether	8.709	63	27443	19.39	ug/L	#	1
47) c-1,3-Dichloropropene	8.770	75	82345	19.40	ug/L		96
49) Toluene	9.019	91	279309	20.02	ug/L		100

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

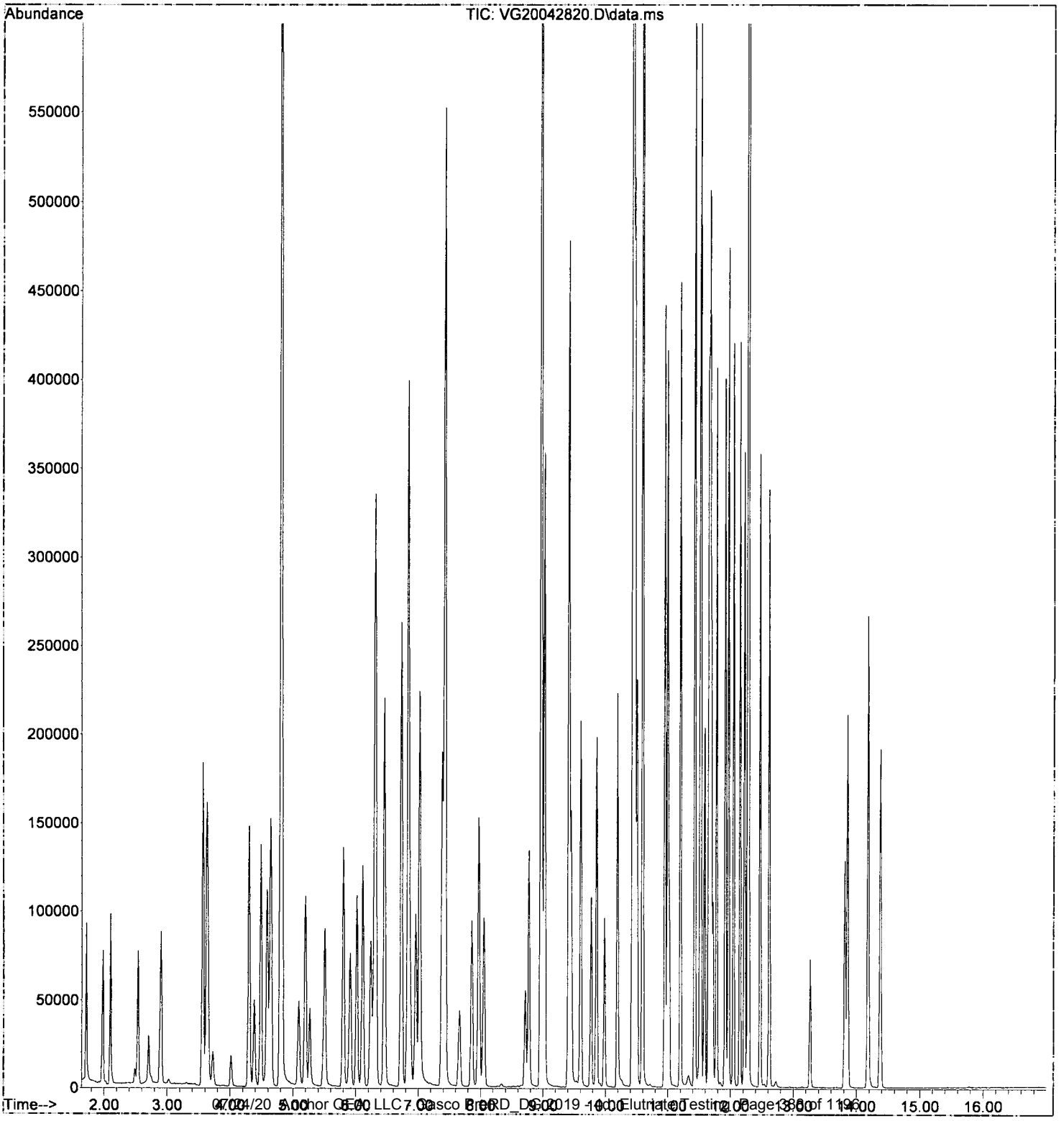
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	61706	21.39 ug/L	92
51) 4-Methyl-2-Pentanone (...	9.410	43	190805	41.80 ug/L	99
52) t-1,3-Dichloropropene	9.446	75	75061	19.60 ug/L	96
53) 1,1,2-Trichloroethane	9.599	97	66335	21.11 ug/L	97
54) Dibromochloromethane	9.769	129	58204	20.36 ug/L	97
55) 1,3-Dichloropropane	9.855	76	109086	21.67 ug/L	98
56) 1,2-Dibromoethane (EDB)	9.983	107	65645	22.40 ug/L	99
57) 2-Hexanone	10.190	43	137116	40.50 ug/L	100
58) Chlorobenzene	10.446	112	181561	20.65 ug/L	99
59) Ethylbenzene	10.464	91	299962	21.77 ug/L	98
60) 1,1,1,2-Tetrachloroethane	10.501	131	53954	21.61 ug/L	97
61) m,p-Xylenes (2)	10.592	91	444010	42.08 ug/L	99
62) o-Xylene	10.946	91	216251	20.87 ug/L	96
63) Styrene	10.989	104	176082	21.25 ug/L	99
64) Bromoform	11.019	173	40985	19.95 ug/L	98
65) Isopropylbenzene	11.196	105	255763	21.22 ug/L	97
68) Bromobenzene	11.513	156	73096	20.75 ug/L	89
69) n-Propylbenzene	11.519	91	306865	21.94 ug/L	95
70) 1,1,2,2-Tetrachloroethane	11.580	83	91449	21.01 ug/L	97
71) 2-Chlorotoluene	11.647	126	64230	22.01 ug/L	94
72) 1,3,5-Trimethylbenzene	11.671	105	211739	23.22 ug/L	94
73) 1,2,3-Trichloropropane	11.690	110	29376	21.44 ug/L #	75
74) t-1,4-Dichloro-2-butene	11.720	88	7608	16.09 ug/L #	83
75) 4-Chlorotoluene	11.775	91	195007	22.66 ug/L	96
76) tert-Butylbenzene	11.915	91	109741	23.44 ug/L	93
77) 1,2,4-Trimethylbenzene	11.964	105	207410	22.97 ug/L	98
78) sec-Butylbenzene	12.043	105	243925	23.12 ug/L	96
79) 4-Isopropyltoluene	12.147	119	192788	22.00 ug/L	99
80) 1,3-Dichlorobenzene	12.220	146	127930	22.91 ug/L	96
81) 1,4-Dichlorobenzene	12.287	146	132714	20.90 ug/L	97
82) n-Butylbenzene	12.470	91	174865	23.26 ug/L	97
83) 1,2-Dichlorobenzene	12.610	146	124636	23.49 ug/L	99
84) 1,2-Dibromo-3-Chloropr...	13.263	157	17571	20.69 ug/L	74
85) Hexachlorobutadiene	13.811	223	15607	23.93 ug/L	94
86) 1,2,4-Trichlorobenzene	13.854	180	67104	23.72 ug/L	95
87) Naphthalene	14.177	128	217197	23.16 ug/L	99
88) 1,2,3-Trichlorobenzene	14.372	180	68875	25.85 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042820.D
Acq On : 28 Apr 2020 10:35 pm
Operator : PS
Sample : 0D28059-ICV1
Misc : 1X 5mL 20-40PPB VOCRO (A19L196+A20C151+A19L249)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 30 09:38:33 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042821.D
Acq On : 28 Apr 2020 11:02 pm
Operator : PS
Sample : 0D28059-IBL7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 09:38:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.837	99	134724	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	10.428	117	365933	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	154202	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	132741	49.56 ug/L		0.00
39) 1,4-Difluorobenzene (S)	7.422	114	438161	50.55 ug/L		0.00
48) Toluene-d8 (S)	8.965	98	512715	51.32 ug/L		0.00
67) 4-Bromofluorobenzene (S)	11.428	174	127332	51.47 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.716	85	550	0.20 ug/L		95
3) Chloromethane	1.978	50	433	0.13 ug/L		89
4) Vinyl Chloride	2.094	62	200	0.06 ug/L	#	48
5) Bromomethane	2.527	96	240	0.12 ug/L	#	66
6) Chloroethane	2.716	64	169	Below Cal		77
7) Trichlorofluoromethane	2.911	101	315	0.09 ug/L		74
8) Ethanol	3.606	45	299	4.29 ug/L	#	29
9) 1,1-Dichloroethene	3.569	61	376	0.10 ug/L		75
10) Carbon Disulfide	3.569	76	1783	0.38 ug/L		93
11) Freon 113	3.643	101	511	0.22 ug/L		78
12) Iodomethane	3.734	142	42	4.85 ug/L	#	47
13) Acrolein	4.082	56	10	0.02 ug/L	#	23
14) Methylene Chloride	4.301	84	6443	2.10 ug/L		96
15) Acetone	4.386	43	2501	1.81 ug/L		94
16) t-1,2-Dichloroethene	4.490	61	523	0.14 ug/L		92
17) n-Hexane	4.600	86	11	0.03 ug/L	#	45
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	4.813	59	770	1.89 ug/L	#	98
20) Diisopropyl ether (DIPE)	5.094	45	10	0.00 ug/L	#	33
21) 1,1-Dichloroethane	0.000		0	N.D.		
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	5.496	59	10	0.00 ug/L	#	38
25) c-1,2-Dichloroethene	5.801	61	189	0.05 ug/L		84
26) 2,2-Dichloropropane	0.000		0	N.D.		
27) Bromochloromethane	6.020	49	131	0.05 ug/L	#	14
28) Chloroform	6.106	83	94	0.02 ug/L	#	25
29) Carbon Tetrachloride	6.240	117	15	0.01 ug/L	#	13
30) Tetrahydrofuran	6.295	42	10	0.01 ug/L	#	37
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	6.453	75	395	0.13 ug/L		79
34) 2-Butanone (MEK)	0.000		0	N.D.		
35) Benzene	6.727	78	567	0.05 ug/L		80
36) tert-Amyl methyl ether...	6.831	73	241	0.05 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	6.965	62	33	0.01 ug/L	#	49
38) iso-Butyl Alcohol	7.038	43	21	0.08 ug/L	#	22
40) Trichloroethene (TCE)	7.380	130	343	0.12 ug/L		88
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	7.910	93	10	0.01 ug/L	#	1
43) 1,2-Dichloropropane	7.977	63	19	0.01 ug/L	#	40
44) Bromodichloromethane	0.000		0	N.D.		
46) 2-Chloroethyl Vinyl Ether	8.770	63	10	0.76 ug/L	#	1
47) c-1,3-Dichloropropene	8.782	75	10	0.59 ug/L	#	1
49) Toluene	9.020	91	1988	0.09 ug/L		85

4/30/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042821.D
Acq On : 28 Apr 2020 11:02 pm
Operator : PS
Sample : 0D28059-IBL7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 30 09:38:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration

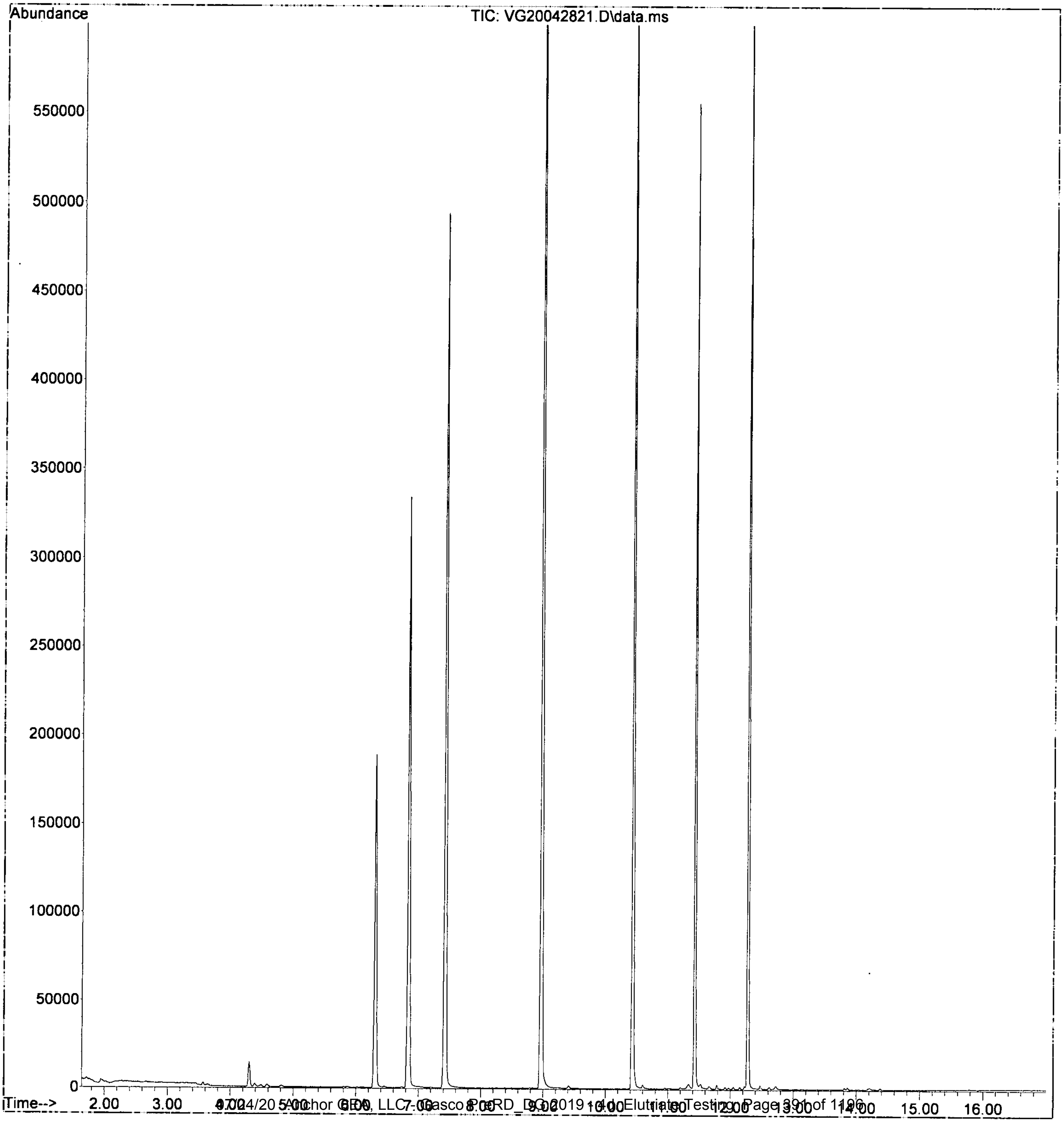
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
50) Tetrachloroethene (PCE)	9.410	166	518	0.22 ug/L		80
51) 4-Methyl-2-Pentanone (...	9.434	43	31	0.01 ug/L	#	43
52) t-1,3-Dichloropropene	9.465	75	112	0.38 ug/L	#	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.		
54) Dibromochloromethane	9.769	129	11	0.17 ug/L	#	17
55) 1,3-Dichloropropane	9.867	76	51	0.01 ug/L	#	60
56) 1,2-Dibromoethane (EDB)	9.995	107	33	0.01 ug/L	#	7
57) 2-Hexanone	0.000		0	N.D.		
58) Chlorobenzene	10.440	112	781	0.11 ug/L	#	1
59) Ethylbenzene	10.477	91	1087	0.10 ug/L		96
60) 1,1,1,2-Tetrachloroethane	10.519	131	10	0.00 ug/L	#	1
61) m,p-Xylenes (2)	10.599	91	1377	0.30 ug/L		78
62) o-Xylene	10.952	91	474	0.14 ug/L		83
63) Styrene	11.013	104	355	0.26 ug/L		86
64) Bromoform	0.000		0	N.D.		
65) Isopropylbenzene	11.202	105	651	0.25 ug/L		85
68) Bromobenzene	11.507	156	295	0.12 ug/L		78
69) n-Propylbenzene	11.525	91	1642	0.16 ug/L		96
70) 1,1,2,2-Tetrachloroethane	11.586	83	38	0.01 ug/L	#	24
71) 2-Chlorotoluene	11.653	126	248	0.12 ug/L		90
72) 1,3,5-Trimethylbenzene	11.672	105	717	0.11 ug/L		80
73) 1,2,3-Trichloropropane	0.000		0	N.D.		
74) t-1,4-Dichloro-2-butene	11.787	88	10	0.03 ug/L	#	18
75) 4-Chlorotoluene	11.781	91	1029	0.17 ug/L		93
76) tert-Butylbenzene	11.922	91	377	0.11 ug/L		88
77) 1,2,4-Trimethylbenzene	11.964	105	606	0.25 ug/L		82
78) sec-Butylbenzene	12.050	105	955	0.13 ug/L		90
79) 4-Isopropyltoluene	12.147	119	884	0.30 ug/L		93
80) 1,3-Dichlorobenzene	12.226	146	742	0.19 ug/L		96
81) 1,4-Dichlorobenzene	12.287	146	1165	0.26 ug/L	#	66
82) n-Butylbenzene	12.470	91	1377	0.26 ug/L		86
83) 1,2-Dichlorobenzene	12.616	146	545	0.14 ug/L		95
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.		
85) Hexachlorobutadiene	13.811	223	160	0.34 ug/L	#	79
86) 1,2,4-Trichlorobenzene	13.854	180	528	0.51 ug/L		78
87) Naphthalene	14.183	128	738	1.00 ug/L		91
88) 1,2,3-Trichlorobenzene	14.384	180	342	0.18 ug/L		94

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

Quantitation Report (Not Reviewed)

```
Data Path : C:\msdchem\1\data\2020-04\0D28059\
Data File : VG20042821.D
Acq On    : 28 Apr 2020  11:02 pm
Operator  : PS
Sample    : 0D28059-IBL7
Misc      : 1X   5mL  DI
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Apr 30 09:38:36 2020
Quant Method : C:\msdchem\1\methods\VG200429W.M
Quant Title  : EPA 8260C: Volatile Organic Compounds
QLast Update : Wed Apr 29 15:17:10 2020
Response via : Initial Calibration
```



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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 0050161
Sequence 0F09029 (A0E0669-01)

APEX LABORATORIES

Apex Laboratories

MAY 15 2020

PREPARATION BENCH SHEET

BATCH #: 0050161 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number		Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050161-BLK1		QC	05/05/20 12:06	0.2	0.2									
	0050161-BS1		QC	05/05/20 12:06	0.2	0.2	A19K246		1						
	A0D0677-32	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-00-01-200425				
	A0D0677-33	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-01-02-200425				
	A0D0677-34	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-02-03-200425				
	A0D0677-35	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-03-04-200425				
	A0D0677-35RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-03-04-200425	Added 5/8/2020 By DAS			
	A0D0677-36	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-04-05-200425				
	A0D0677-36RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-04-05-200425	Added 5/8/2020 By DAS			
	A0D0677-37	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-05-06-200425				
	A0D0677-37RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-05-06-200425	Added 5/8/2020 By DAS			
	A0D0677-37RE2	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-05-06-200425	Added 5/11/2020 by mas			
	A0D0677-38	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-06-07-200425				
	A0D0677-38RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-06-07-200425	Added 5/8/2020 By DAS			
	A0D0677-39	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-07-08-200425				
	A0D0677-39RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-150SC-A-07-08-200425	Added 5/8/2020 By DAS			
	A0D0677-46	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-1163SC-A-01-02-200425				
	A0D0677-46RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-1163SC-A-01-02-200425	Added 5/8/2020 By DAS			
	A0D0677-47	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-00-01-200425				

MAS 5/11/20
Prepared By: Date

Reviewed By: 5/12/2020
Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050161 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number		Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	A0D0677-47RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-00-01-200425	Added 5/8/2020 By DAS			
	A0D0677-48	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-01-02-200425				
	A0D0677-48RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-01-02-200425	Added 5/8/2020 By DAS			
	A0D0677-49	D	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-02-03-200425	MS/MSD			
	0050161-DUP1		QC	05/05/20 12:06	0.2	0.2		A0D0677-49							
	0050161-DUP3		QC	05/05/20 12:06	0.2	0.2		A0D0677-49							
	A0D0677-49RE1	D	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-02-03-200425	Added 5/8/2020 By DAS			
	0050161-DUP4		QC	05/05/20 12:06	0.2	0.2		A0D0677-49RE1							
	0050161-DUP6		QC	05/05/20 12:06	0.2	0.2		A0D0677-49RE1							
	A0D0677-50	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-03-04-200425				
	A0D0677-50RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-03-04-200425	Added 5/8/2020 By DAS			
	A0D0677-51	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-04-05-200425				
	A0D0677-51RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-163SC-A-04-05-200425	Added 5/8/2020 By DAS			
	A0D0701-17	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-02-03-200427				
	A0D0701-17RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-02-03-200427	Added 5/8/2020 By DAS			
	A0D0701-18	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-03-04-200427				
	0050161-DUP2		QC	05/05/20 12:06	0.2	0.2		A0D0701-18							
	A0D0701-18RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-03-04-200427	Added 5/8/2020 By DAS			
	0050161-DUP5		QC	05/05/20 12:06	0.2	0.2		A0D0701-18RE1							
	A0D0701-19	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-04-05-200427				
	A0D0701-19RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-04-05-200427	Added 5/8/2020 By DAS			

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050161 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number		Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH ok	pH >11
	A0D0701-20	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-05-06-200427				
	A0D0701-20RE1	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-05-06-200427	Added 5/8/2020 By DAS			
	A0D0701-21	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-06-07-200427				
	A0D0701-22	B	Total Organic Carbon - Soil (5310 B)	05/05/20 12:06	0.2	0.2					PDI-153SC-A-07-08-200427				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L220	11/30/23	Wet Chem Balance 1
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: Date

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0F09029**	Instrument:	**DUALECD6R**
Date:	**06/09/20 06:23**	Calibration:	**A0C2703**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0F09029-CCV1	Water	QC	QC				A20E179
2	0F09029-CCB1	Water	QC	QC				A20F087
3	0060283-BLK1	Solid	QC	QC		0060283		
4	0060283-BS1	Solid	QC	QC		0060283		
5	A0F0198-03	Solid	8082 PCBs		06/09/20	0060283		
6	0F09029-IBL1	Water	QC	QC				
7	A0F0198-03RE1	Solid	8082 PCBs		06/09/20	0060283		
8	0F09029-IBL2	Water	QC	QC				
9	0060283-DUP1	Solid	QC	QC		0060283		
10	0F09029-IBL3	Water	QC	QC				
11	0060283-MS1	Solid	QC	QC		0060283		
12	0F09029-IBL4	Water	QC	QC				
13	0F09029-CCV2	Water	QC	QC				A20E179
14	0F09029-CCB2	Water	QC	QC				A20F087
15	0060161-BLK1	Water	QC	QC		0060161		
16	0060161-BS1	Water	QC	QC		0060161		
17	0060161-BSD1	Water	QC	QC		0060161		
18	A0E0669-01	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	06/05/20	0060161		
19	0F09029-CCV3	Water	QC	QC				A20E179
20	0F09029-CCB3	Water	QC	QC				A20F087

Comments:

Data Entered By/Date: 6/9/20

Data Reviewed By/Date: 6/9/20

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.

0F09029-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	497.17
1016 (2)	544.69
1016 (3)	511.36
1016 (4)	538.18
1016 (5)	524.76
1016 (6)	531.88
Average:	**524.67**

Aroclor 1260

Peak	Initial Res
1260 (1)	561.52
1260 (2)	565.22
1260 (3)	563.37
1260 (4)	589.08
1260 (5)	569.54
1260 (6)	558.26
Average:	**567.83**

0060283-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	371.57
1016 (2)	399.36
1016 (3)	352.02
1016 (4)	406.23
1016 (5)	410.09
1016 (6)	389.68
Average:	**388.16**

Aroclor 1260

Peak	Initial Res
1260 (1)	451.84
1260 (2)	474.07
1260 (3)	469.28
1260 (4)	494.23
1260 (5)	462.52
1260 (6)	471.48
Average:	**470.57**

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.

0060283-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	404.66
1016 (2)	488.28
1016 (3)	422.13
1016 (4)	417.19
1016 (5)	449.12
1016 (6)	442.16
Average:	**437.26**

Aroclor 1260

Peak	Initial Res
1260 (1)	488.57
1260 (2)	533.67
1260 (3)	514.96
1260 (4)	535.75
1260 (5)	504.00
1260 (6)	501.48
Average:	**513.07**

0F09029-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	466.55
1016 (1)	466.55
1016 (2)	520.41
1016 (2)	520.41
1016 (3)	499.69
1016 (3)	499.69
1016 (4)	515.27
1016 (4)	515.27
1016 (5)	513.31
1016 (5)	513.31
1016 (6)	520.35
1016 (6)	520.35
Average:	**505.93**

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.

0F09029-CCV2

Aroclor 1260

Peak	Initial Res
1260 (1)	547.00
1260 (1)	547.00
1260 (2)	576.12
1260 (2)	576.12
1260 (3)	582.15
1260 (3)	582.15
1260 (4)	575.34
1260 (4)	575.34
1260 (5)	571.43
1260 (5)	571.43
1260 (6)	567.23
1260 (6)	567.23
Average:	**569.88**

0060161-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	586.88
1016 (2)	781.85
1016 (3)	664.46
1016 (4)	768.89
1016 (5)	775.08
1016 (6)	753.25
Average:	**721.74**

Aroclor 1260

Peak	Initial Res
1260 (1)	890.97
1260 (2)	985.51
1260 (3)	934.42
1260 (4)	1,066.45
1260 (5)	965.63
1260 (6)	968.10
Average:	**968.51**

0060161-BSD1

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.

0060161-BSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	606.05
1016 (2)	747.08
1016 (3)	580.95
1016 (4)	748.72
1016 (5)	751.32
1016 (6)	690.15
Average:	**687.38**

Aroclor 1260

Peak	Initial Res
1260 (1)	869.95
1260 (2)	943.10
1260 (3)	900.83
1260 (4)	1,036.95
1260 (5)	937.93
1260 (6)	938.29
Average:	**937.84**

0F09029-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	504.00
1016 (2)	573.03
1016 (3)	532.95
1016 (4)	553.66
1016 (5)	549.87
1016 (6)	548.56
Average:	**543.68**

Aroclor 1260

Peak	Initial Res
1260 (1)	571.00
1260 (2)	609.01
1260 (3)	596.76
1260 (4)	637.99
1260 (5)	597.71
1260 (6)	579.62
Average:	**598.68**

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R003.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 7:26 am
Operator : MJB/KAK
Sample : 0F09029-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:08:54 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/19/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.024	46780467	260.252	ng/ml
62)	S DCBP (S)	11.305	20665072	264.752	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.695	2621301	497.170	ng/ml
3)	Aroclor 1016 (2)	7.190	4623799	544.691	ng/ml
4)	Aroclor 1016 (3)	7.320	2035825	511.363	ng/ml
5)	Aroclor 1016 (4)	7.402	2397282	538.185	ng/ml
6)	Aroclor 1016 (5)	7.448	2528453	524.764	ng/ml
7)	Aroclor 1016 (6)	7.576	2515941	531.877	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.181	257719	184.512	ng/ml
10)	Aroclor 1221 (2)	6.270	368113	281.349	ng/ml
11)	Aroclor 1221 (3)	6.358	1725086	408.251	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.358	1725086	496.648	ng/ml
14)	Aroclor 1232 (2)	6.695	2621301	1269.175	ng/ml
15)	Aroclor 1232 (3)	7.190	4623799	1383.211	ng/ml
16)	Aroclor 1232 (4)	7.402	2397282	1671.069	ng/ml
17)	Aroclor 1232 (5)	7.448	2528453	1525.570	ng/ml
18)	Aroclor 1232 (6)	7.576	2515941	1503.391	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.695	2621301	707.633	ng/ml
21)	Aroclor 1242 (2)	7.190	4623799	739.681	ng/ml
22)	Aroclor 1242 (3)	7.320	2035825	681.190	ng/ml
23)	Aroclor 1242 (4)	7.402	2397282	794.935	ng/ml
24)	Aroclor 1242 (5)	7.448	2528453	750.317	ng/ml
25)	Aroclor 1242 (6)	7.576	2515941	717.718	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.161	4040956	1031.384	ng/ml
28)	Aroclor 1248 (2)	7.402	2397282	460.811	ng/ml
29)	Aroclor 1248 (3)	7.448	2528453	531.372	ng/ml
30)	Aroclor 1248 (4)	7.576	2515941	441.264	ng/ml
31)	Aroclor 1248 (5)	7.920	1774896	257.822	ng/ml
32)	Aroclor 1248 (6)	8.102	2062825	349.610	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.920	1774896	233.702	ng/ml
35)	Aroclor 1254 (2)	8.102	2062825	186.931	ng/ml
36)	Aroclor 1254 (3)	8.418	1164551	95.630	ng/ml
37)	Aroclor 1254 (4)	8.660	759326	91.445	ng/ml
38)	Aroclor 1254 (5)	8.996	6250680	696.088	ng/ml
39)	Aroclor 1254 (6)	9.228	832649	327.236	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.552	5196108	561.518	ng/ml
42)	Aroclor 1260 (2)	8.759	6209218	565.224	ng/ml
43)	Aroclor 1260 (3)	8.996	6250680	563.368	ng/ml
44)	Aroclor 1260 (4)	9.228	832816	589.109	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R003.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 7:26 am
Operator : MJB/KAK
Sample : 0F09029-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:08:54 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.840	5282087	569.540	ng/ml
46)	Aroclor 1260 (6)	10.508	2025979	558.261	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.759	6209218	735.025	ng/ml
49)	Aroclor 1262 (2)	9.066	4539704	395.720	ng/ml
50)	Aroclor 1262 (3)	9.263	4437452	505.382	ng/ml
51)	Aroclor 1262 (4)	9.536	9281625	521.222	ng/ml
52)	Aroclor 1262 (5)	9.840	5282087	493.354	ng/ml
53)	Aroclor 1262 (6)	10.508	2025979	423.493	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.308	355008	72.352	ng/ml
56)	Aroclor 1268 (2)	9.840	5282087	262.885	ng/ml
57)	Aroclor 1268 (3)	9.913	2170508	133.538	ng/ml
58)	Aroclor 1268 (4)	10.168	201521	14.406	ng/ml
59)	Aroclor 1268 (5)	10.508	2025979	381.344	ng/ml
60)	Aroclor 1268 (6)	10.929	576128	15.862	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

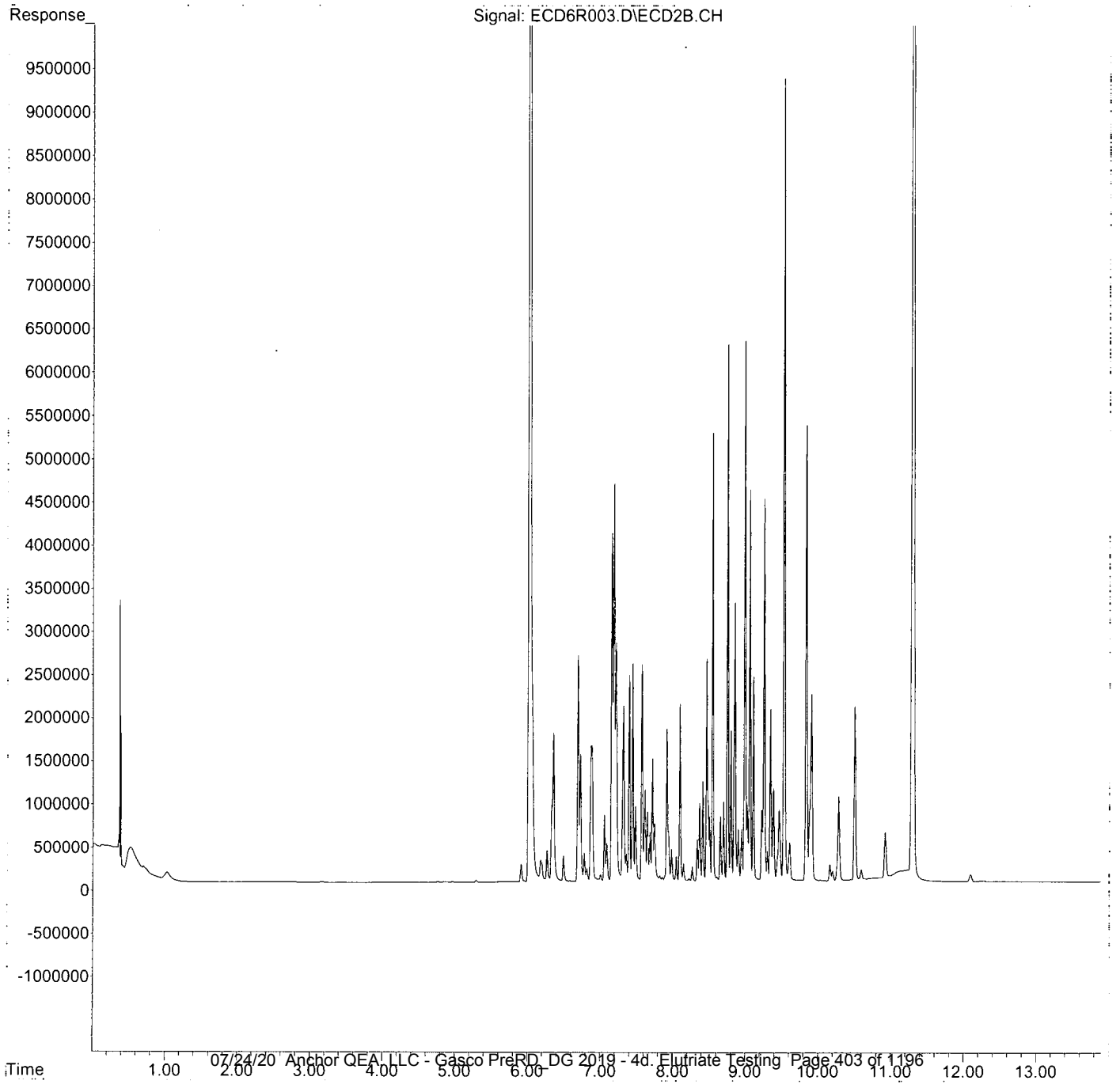
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R003.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 7:26 am
Operator : MJB/KAK
Sample : 0F09029-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:08:54 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R004.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 7:43 am
Operator : MJB/KAK
Sample : 0F09029-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:04 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/9/20 clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	6.023	18614860	103.559 ng/ml
62) S	DCBP (S)	11.303	8531083	109.296 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.690	2422	0.459 ng/ml
3)	Aroclor 1016 (2)	7.181	2698	0.318 ng/ml
4)	Aroclor 1016 (3)	7.318	2372	0.596 ng/ml
5)	Aroclor 1016 (4)	7.398	2144	0.481 ng/ml
6)	Aroclor 1016 (5)	7.443	2238	0.465 ng/ml
7)	Aroclor 1016 (6)	7.571	2410	0.509 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10)	Aroclor 1221 (2)	6.270	12872	9.838 ng/ml
11)	Aroclor 1221 (3)	6.334	361297	85.503 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.334	361297	104.017 ng/ml
14)	Aroclor 1232 (2)	6.690	2422	1.172 ng/ml
15)	Aroclor 1232 (3)	7.181	2698	0.807 ng/ml
16)	Aroclor 1232 (4)	7.398	2144	1.494 ng/ml
17)	Aroclor 1232 (5)	7.443	2238	1.351 ng/ml
18)	Aroclor 1232 (6)	7.571	2410	1.440 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.690	2422	0.654 ng/ml
21)	Aroclor 1242 (2)	7.181	2698	0.432 ng/ml
22)	Aroclor 1242 (3)	7.318	2372	0.794 ng/ml
23)	Aroclor 1242 (4)	7.398	2144	0.711 ng/ml
24)	Aroclor 1242 (5)	7.443	2238	0.664 ng/ml
25)	Aroclor 1242 (6)	7.571	2410	0.687 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	7.158	2222	0.567 ng/ml
28)	Aroclor 1248 (2)	7.398	2144	0.412 ng/ml
29)	Aroclor 1248 (3)	7.443	2238	0.470 ng/ml
30)	Aroclor 1248 (4)	7.571	2410	0.423 ng/ml
31)	Aroclor 1248 (5)	7.943	2640	0.383 ng/ml
32)	Aroclor 1248 (6)	8.107	2394	0.406 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.916	2656	0.350 ng/ml
35)	Aroclor 1254 (2)	8.107	2394	0.217 ng/ml
36)	Aroclor 1254 (3)	8.414	3333	0.274 ng/ml
37)	Aroclor 1254 (4)	8.662	1494	0.180 ng/ml
38)	Aroclor 1254 (5)	8.968	15614	1.739 ng/ml
39)	Aroclor 1254 (6)	9.221	515	0.202 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.553	2225	0.240 ng/ml
42)	Aroclor 1260 (2)	8.753	6225	0.567 ng/ml
43)	Aroclor 1260 (3)	8.968	15614	1.407 ng/ml
44)	Aroclor 1260 (4)	9.534	2224	0.141 ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R004.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 7:43 am
Operator : MJB/KAK
Sample : 0F09029-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:04 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.843	3731	0.402	ng/ml
46)	Aroclor 1260 (6)	10.518	8123	2.238	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.753	6225	0.737	ng/ml
49)	Aroclor 1262 (2)	9.060	1687	0.147	ng/ml
50)	Aroclor 1262 (3)	9.259	2535	0.289	ng/ml
51)	Aroclor 1262 (4)	9.534	2224	0.125	ng/ml
52)	Aroclor 1262 (5)	9.843	3731	0.349	ng/ml
53)	Aroclor 1262 (6)	10.518	8123	1.698	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.308	5961	1.215	ng/ml
56)	Aroclor 1268 (2)	9.843	3731	0.186	ng/ml
57)	Aroclor 1268 (3)	9.912	2071	0.127	ng/ml
58)	Aroclor 1268 (4)	10.168	64046	4.579	ng/ml
59)	Aroclor 1268 (5)	10.518	8123	1.529	ng/ml
60)	Aroclor 1268 (6)	10.929	84989	2.340	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

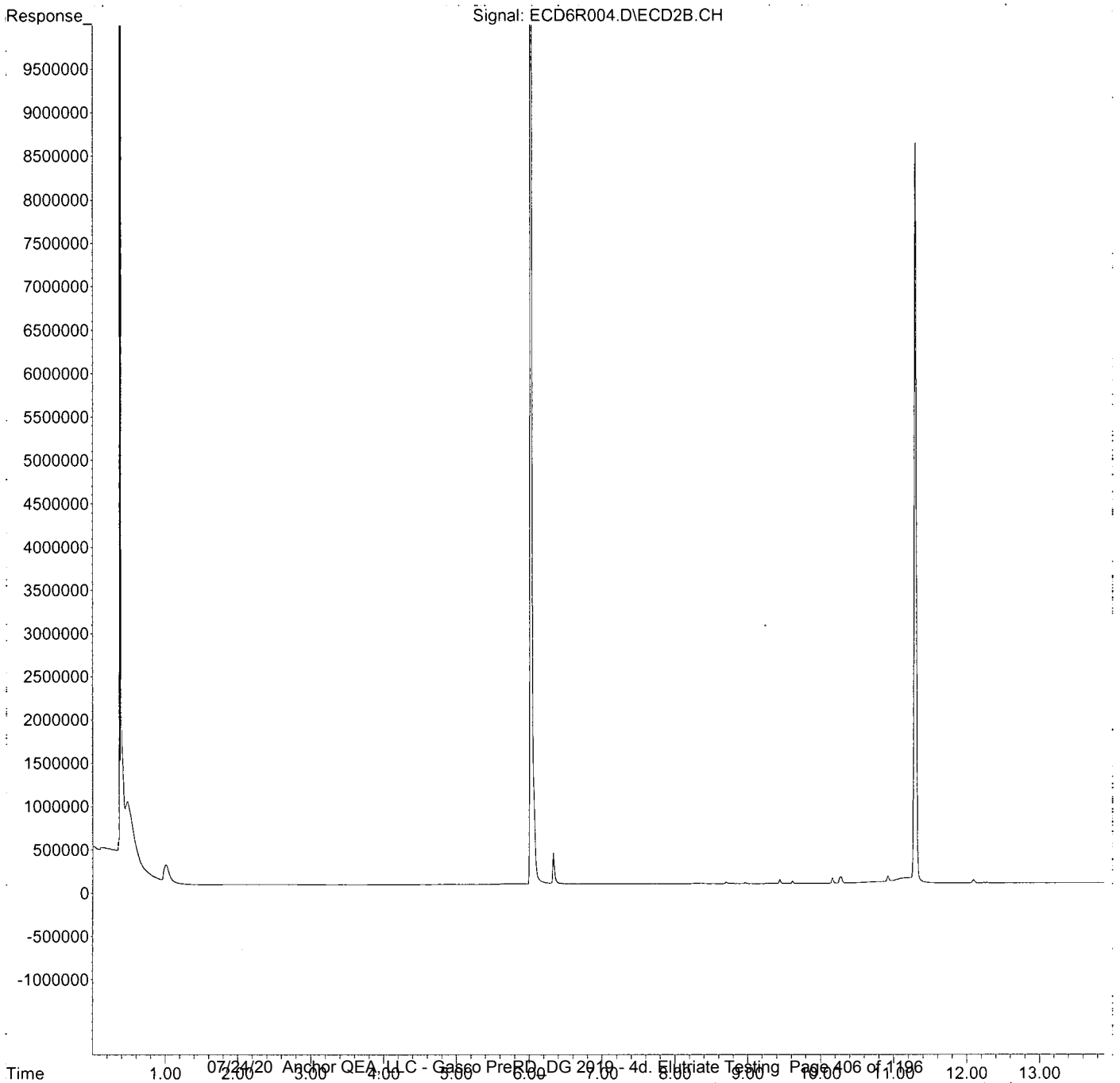
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R004.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 7:43 am
Operator : MJB/KAK
Sample : 0F09029-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:04 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R005.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 8:01 am
Operator : MJB/KAK
Sample : 0060283-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/9/20
clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.024	12810852	71.270	ng/ml
62)	S DCBP (S)	11.305	7699492	98.642	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.689	1637	0.310	ng/ml
3)	Aroclor 1016 (2)	7.183	1469	0.173	ng/ml
4)	Aroclor 1016 (3)	7.305	830	0.209	ng/ml
5)	Aroclor 1016 (4)	7.403	1283	0.288	ng/ml
6)	Aroclor 1016 (5)	7.445	1142	0.237	ng/ml
7)	Aroclor 1016 (6)	7.572	1359	0.287	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.238f	10393	7.441	ng/ml
10)	Aroclor 1221 (2)	6.273	7824	5.980	ng/ml
11)	Aroclor 1221 (3)	6.335	252201	59.685	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.335	252201	72.608	ng/ml
14)	Aroclor 1232 (2)	6.689	1637	0.792	ng/ml
15)	Aroclor 1232 (3)	7.183	1469	0.440	ng/ml
16)	Aroclor 1232 (4)	7.403	1283	0.894	ng/ml
17)	Aroclor 1232 (5)	7.445	1142	0.689	ng/ml
18)	Aroclor 1232 (6)	7.572	1359	0.812	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.689	1637	0.442	ng/ml
21)	Aroclor 1242 (2)	7.183	1469	0.235	ng/ml
22)	Aroclor 1242 (3)	7.305	830	0.278	ng/ml
23)	Aroclor 1242 (4)	7.403	1283	0.425	ng/ml
24)	Aroclor 1242 (5)	7.445	1142	0.339	ng/ml
25)	Aroclor 1242 (6)	7.572	1359	0.388	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.167	1692	0.432	ng/ml
28)	Aroclor 1248 (2)	7.403	1283	0.247	ng/ml
29)	Aroclor 1248 (3)	7.445	1142	0.240	ng/ml
30)	Aroclor 1248 (4)	7.572	1359	0.238	ng/ml
31)	Aroclor 1248 (5)	7.945	1619	0.235	ng/ml
32)	Aroclor 1248 (6)	8.106	1462	0.248	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.922	1723	0.227	ng/ml
35)	Aroclor 1254 (2)	8.106	1462	0.133	ng/ml
36)	Aroclor 1254 (3)	8.416	3732	0.306	ng/ml
37)	Aroclor 1254 (4)	8.658	1090	0.131	ng/ml
38)	Aroclor 1254 (5)	8.969	6688	0.745	ng/ml
39)	Aroclor 1254 (6)	9.230	375	0.147	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.548	2428	0.262	ng/ml
42)	Aroclor 1260 (2)	8.759	5101	0.464	ng/ml
43)	Aroclor 1260 (3)	8.969	6688	0.603	ng/ml
44)	Aroclor 1260 (4)	9.538	1306	0.083	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R005.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 8:01 am
Operator : MJB/KAK
Sample : 0060283-BLK1
Misc : .
ALS Vial : 54 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.843	2242	0.242 ng/ml
46)	Aroclor 1260 (6)	10.508	7285	2.007 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.759	5101	0.604 ng/ml
49)	Aroclor 1262 (2)	9.062	1153	0.100 ng/ml
50)	Aroclor 1262 (3)	9.263	1445	0.165 ng/ml
51)	Aroclor 1262 (4)	9.538	1306	0.073 ng/ml
52)	Aroclor 1262 (5)	9.843	2242	0.209 ng/ml
53)	Aroclor 1262 (6)	10.508	7285	1.523 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	9.312	599	0.122 ng/ml
56)	Aroclor 1268 (2)	9.843	2242	0.112 ng/ml
57)	Aroclor 1268 (3)	9.912	1451	0.089 ng/ml
58)	Aroclor 1268 (4)	10.171	45320	3.240 ng/ml
59)	Aroclor 1268 (5)	10.508	7285	1.371 ng/ml
60)	Aroclor 1268 (6)	10.931	75328	2.074 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

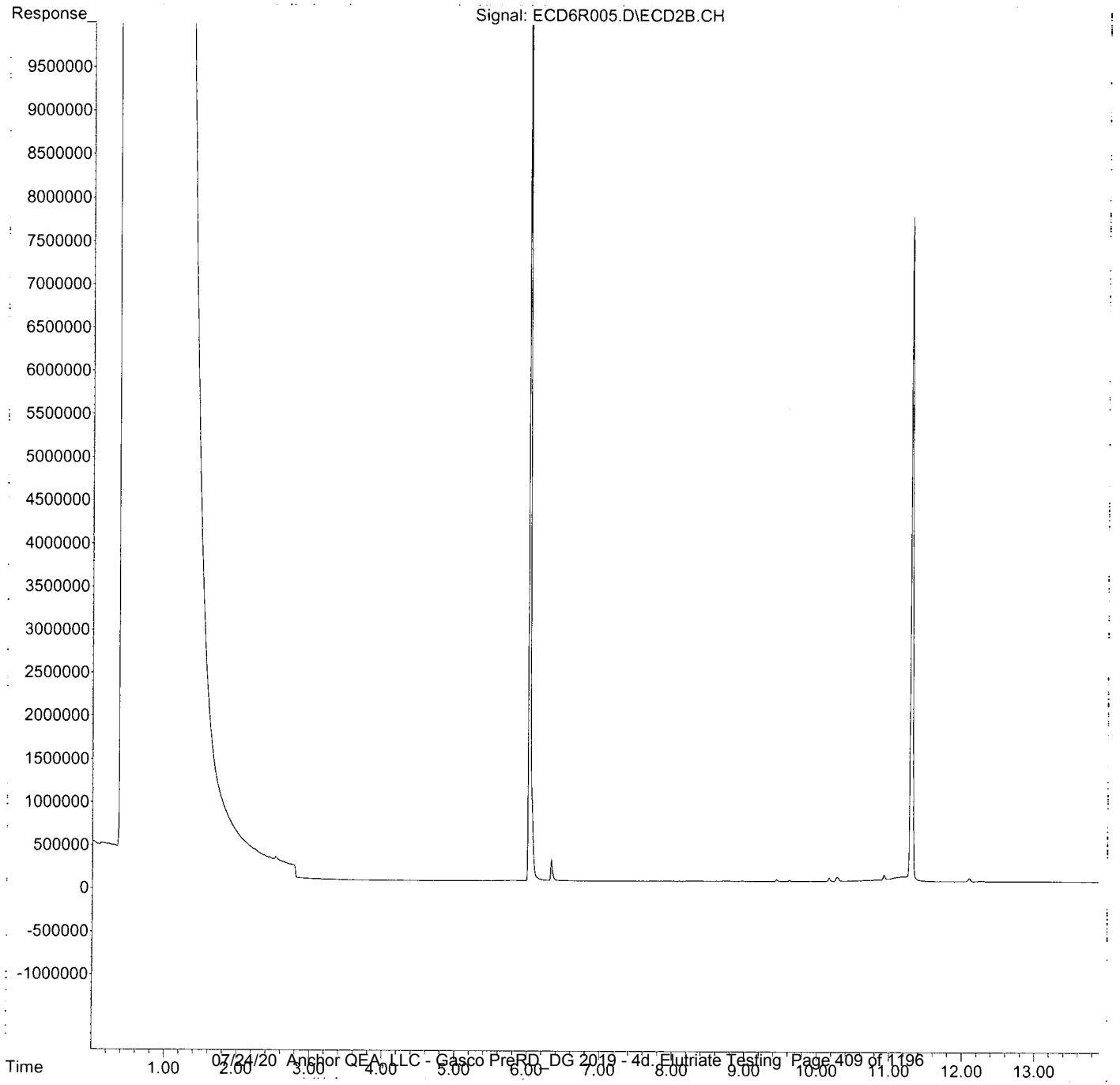
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R005.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 8:01 am
Operator : MJB/KAK
Sample : 0060283-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 8:19 am
Operator : MJB/KAK
Sample : 0060283-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:23 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/9/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.024	13576040	75.527	ng/ml
62)	S DCBP (S)	11.305	7774748	99.607	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.696	1959076	371.569	ng/ml
3)	Aroclor 1016 (2)	7.191	3390109	399.360	ng/ml
4)	Aroclor 1016 (3)	7.321	1401473	352.025	ng/ml
5)	Aroclor 1016 (4)	7.402	1809526	406.235	ng/ml
6)	Aroclor 1016 (5)	7.449	1975940	410.094	ng/ml
7)	Aroclor 1016 (6)	7.577	1843297	389.678	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.183	164302	117.631	ng/ml
10)	Aroclor 1221 (2)	6.271	244479	186.855	ng/ml
11)	Aroclor 1221 (3)	6.359	1121531	265.416	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.359	1121531	322.886	ng/ml
14)	Aroclor 1232 (2)	6.696	1959076	948.541	ng/ml
15)	Aroclor 1232 (3)	7.191	3390109	1014.152	ng/ml
16)	Aroclor 1232 (4)	7.402	1809526	1261.363	ng/ml
17)	Aroclor 1232 (5)	7.449	1975940	1192.205	ng/ml
18)	Aroclor 1232 (6)	7.577	1843297	1101.455	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.696	1959076	528.863	ng/ml
21)	Aroclor 1242 (2)	7.191	3390109	542.324	ng/ml
22)	Aroclor 1242 (3)	7.321	1401473	468.935	ng/ml
23)	Aroclor 1242 (4)	7.402	1809526	600.036	ng/ml
24)	Aroclor 1242 (5)	7.449	1975940	586.359	ng/ml
25)	Aroclor 1242 (6)	7.577	1843297	525.834	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.161	2970161	758.082	ng/ml
28)	Aroclor 1248 (2)	7.402	1809526	347.831	ng/ml
29)	Aroclor 1248 (3)	7.449	1975940	415.258	ng/ml
30)	Aroclor 1248 (4)	7.577	1843297	323.290	ng/ml
31)	Aroclor 1248 (5)	7.944	448796	65.192	ng/ml
32)	Aroclor 1248 (6)	8.102	1663743	281.973	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.920	1397986	184.074	ng/ml
35)	Aroclor 1254 (2)	8.102	1663743	150.766	ng/ml
36)	Aroclor 1254 (3)	8.418	870130	71.453	ng/ml
37)	Aroclor 1254 (4)	8.659	609641	73.419	ng/ml
38)	Aroclor 1254 (5)	8.996	5206714	579.830	ng/ml
39)	Aroclor 1254 (6)	9.228	712415	279.983	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.552	4181190	451.841	ng/ml
42)	Aroclor 1260 (2)	8.758	5207910	474.075	ng/ml
43)	Aroclor 1260 (3)	8.996	5206714	469.276	ng/ml
44)	Aroclor 1260 (4)	9.535	7787222	494.234	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 8:19 am
Operator : MJB/KAK
Sample : 0060283-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:23 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.840	4289549	462.520	ng/ml
46)	Aroclor 1260 (6)	10.509	1711055	471.483	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.758	5207910	616.493	ng/ml
49)	Aroclor 1262 (2)	9.066	3767886	328.442	ng/ml
50)	Aroclor 1262 (3)	9.262	3503292	398.990	ng/ml
51)	Aroclor 1262 (4)	9.535	7787222	437.302	ng/ml
52)	Aroclor 1262 (5)	9.840	4289549	400.649	ng/ml
53)	Aroclor 1262 (6)	10.509	1711055	357.664	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.308	297717	60.676	ng/ml
56)	Aroclor 1268 (2)	9.840	4289549	213.487	ng/ml
57)	Aroclor 1268 (3)	9.913	1836773	113.005	ng/ml
58)	Aroclor 1268 (4)	10.168	130547	9.333	ng/ml
59)	Aroclor 1268 (5)	10.509	1711055	322.067	ng/ml
60)	Aroclor 1268 (6)	10.928	434495	11.963	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

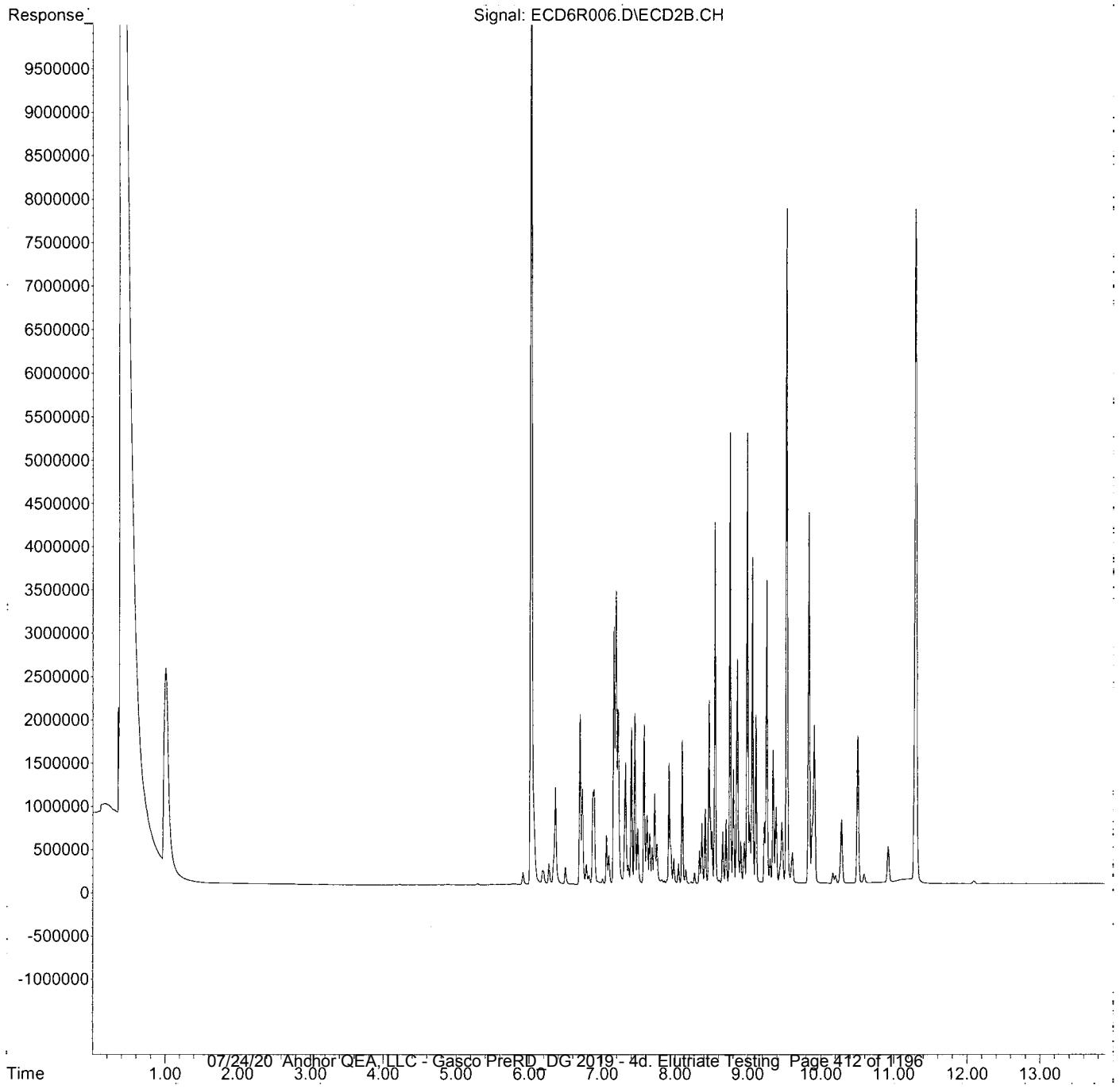
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 8:19 am
Operator : MJB/KAK
Sample : 0060283-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:09:23 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R015.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 11:34 am
Operator : MJB/KAK
Sample : 0F09029-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:07 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

619120

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.022	44391439	246.961	ng/ml
62)	S DCBP (S)	11.302	20390071	261.228	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.694	2459873	466.552	ng/ml
3)	Aroclor 1016 (2)	7.189	4417663	520.408	ng/ml
4)	Aroclor 1016 (3)	7.319	1989367	499.693	ng/ml
5)	Aroclor 1016 (4)	7.400	2295193	515.266	ng/ml
6)	Aroclor 1016 (5)	7.447	2473276	513.313	ng/ml
7)	Aroclor 1016 (6)	7.575	2461434	520.354	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.180	228751	163.772	ng/ml
10)	Aroclor 1221 (2)	6.269	337890	258.249	ng/ml
11)	Aroclor 1221 (3)	6.357	1606239	380.125	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.357	1606239	462.432	ng/ml
14)	Aroclor 1232 (2)	6.694	2459873	1191.015	ng/ml
15)	Aroclor 1232 (3)	7.189	4417663	1321.545	ng/ml
16)	Aroclor 1232 (4)	7.400	2295193	1599.905	ng/ml
17)	Aroclor 1232 (5)	7.447	2473276	1492.278	ng/ml
18)	Aroclor 1232 (6)	7.575	2461434	1470.821	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.694	2459873	664.055	ng/ml
21)	Aroclor 1242 (2)	7.189	4417663	706.705	ng/ml
22)	Aroclor 1242 (3)	7.319	1989367	665.645	ng/ml
23)	Aroclor 1242 (4)	7.400	2295193	761.082	ng/ml
24)	Aroclor 1242 (5)	7.447	2473276	733.943	ng/ml
25)	Aroclor 1242 (6)	7.575	2461434	702.168	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.159	3848188	982.183	ng/ml
28)	Aroclor 1248 (2)	7.400	2295193	441.187	ng/ml
29)	Aroclor 1248 (3)	7.447	2473276	519.776	ng/ml
30)	Aroclor 1248 (4)	7.575	2461434	431.704	ng/ml
31)	Aroclor 1248 (5)	7.942	565709	82.175	ng/ml
32)	Aroclor 1248 (6)	8.100	2064647	349.918	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.919	1793328	236.129	ng/ml
35)	Aroclor 1254 (2)	8.100	2064647	187.096	ng/ml
36)	Aroclor 1254 (3)	8.417	1158425	95.127	ng/ml
37)	Aroclor 1254 (4)	8.657	764211	92.034	ng/ml
38)	Aroclor 1254 (5)	8.995	6459039	719.291	ng/ml
39)	Aroclor 1254 (6)	9.227	850827	334.380	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.551	5061760	547.000	ng/ml
42)	Aroclor 1260 (2)	8.757	6328869	576.116	ng/ml
43)	Aroclor 1260 (3)	8.995	6459039	582.147	ng/ml
44)	Aroclor 1260 (4)	9.533	9065074	575.335	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R015.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 11:34 am
Operator : MJB/KAK
Sample : 0F09029-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:07 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.838	5299574	571.425	ng/ml
46)	Aroclor 1260 (6)	10.506	2058511	567.225	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.757	6328869	749.189	ng/ml
49)	Aroclor 1262 (2)	9.064	4656952	405.941	ng/ml
50)	Aroclor 1262 (3)	9.261	4260664	485.247	ng/ml
51)	Aroclor 1262 (4)	9.533	9065074	509.061	ng/ml
52)	Aroclor 1262 (5)	9.838	5299574	494.987	ng/ml
53)	Aroclor 1262 (6)	10.506	2058511	430.293	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.307	344404	70.191	ng/ml
56)	Aroclor 1268 (2)	9.838	5299574	263.756	ng/ml
57)	Aroclor 1268 (3)	9.911	2186310	134.510	ng/ml
58)	Aroclor 1268 (4)	10.166	196002	14.012	ng/ml
59)	Aroclor 1268 (5)	10.506	2058511	387.468	ng/ml
60)	Aroclor 1268 (6)	10.926	584129	16.083	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

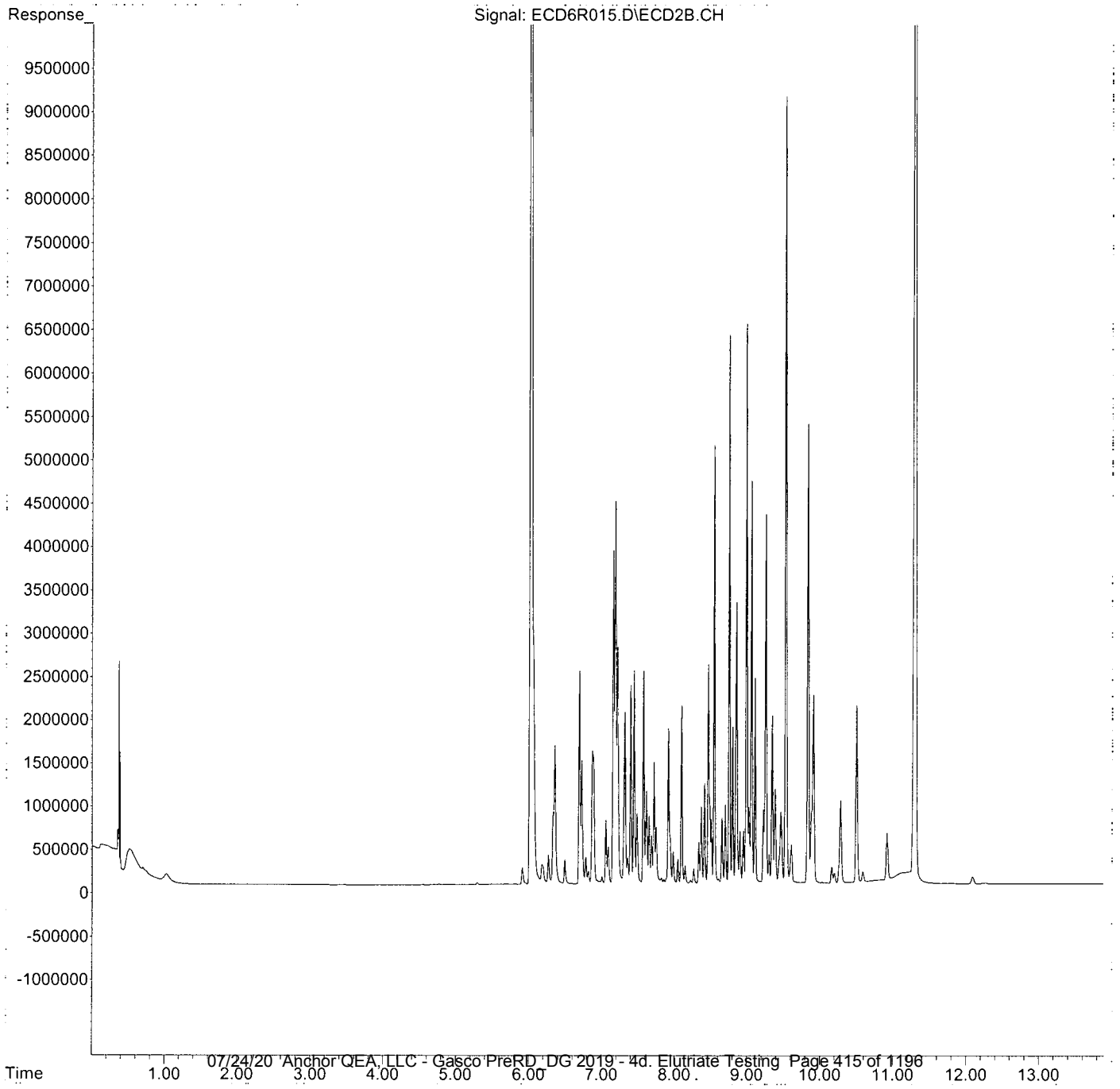
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R015.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 11:34 am
Operator : MJB/KAK
Sample : 0F09029-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:07 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R016.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 11:52 am
Operator : MJB/KAK
Sample : 0F09029-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:17 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/9/20
Clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.022	18883576	105.054	ng/ml
62) S	DCBP (S)	11.302	8861734	113.533	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.690	1139	0.216	ng/ml
3)	Aroclor 1016 (2)	7.181	2423	0.285	ng/ml
4)	Aroclor 1016 (3)	7.314	1678	0.422	ng/ml
5)	Aroclor 1016 (4)	7.413	1765	0.396	ng/ml
6)	Aroclor 1016 (5)	7.442	1666	0.346	ng/ml
7)	Aroclor 1016 (6)	7.568	2017	0.426	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10)	Aroclor 1221 (2)	6.269	10259	7.841	ng/ml
11)	Aroclor 1221 (3)	6.332	361193	85.478	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.332	361193	103.986	ng/ml
14)	Aroclor 1232 (2)	6.690	1139	0.551	ng/ml
15)	Aroclor 1232 (3)	7.181	2423	0.725	ng/ml
16)	Aroclor 1232 (4)	7.413	1765	1.230	ng/ml
17)	Aroclor 1232 (5)	7.442	1666	1.005	ng/ml
18)	Aroclor 1232 (6)	7.568	2017	1.205	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.690	1139	0.307	ng/ml
21)	Aroclor 1242 (2)	7.181	2423	0.388	ng/ml
22)	Aroclor 1242 (3)	7.314	1678	0.562	ng/ml
23)	Aroclor 1242 (4)	7.413	1765	0.585	ng/ml
24)	Aroclor 1242 (5)	7.442	1666	0.494	ng/ml
25)	Aroclor 1242 (6)	7.568	2017	0.575	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.152	1326	0.338	ng/ml
28)	Aroclor 1248 (2)	7.413	1765	0.339	ng/ml
29)	Aroclor 1248 (3)	7.442	1666	0.350	ng/ml
30)	Aroclor 1248 (4)	7.568	2017	0.354	ng/ml
31)	Aroclor 1248 (5)	7.935	2593	0.377	ng/ml
32)	Aroclor 1248 (6)	8.090	1791	0.304	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.921	2826	0.372	ng/ml
35)	Aroclor 1254 (2)	8.090	1791	0.162	ng/ml
36)	Aroclor 1254 (3)	8.413	4030	0.331	ng/ml
37)	Aroclor 1254 (4)	8.661	2096	0.252	ng/ml
38)	Aroclor 1254 (5)	9.016	1578	0.176	ng/ml
39)	Aroclor 1254 (6)	9.225	579	0.227	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.554	3134	0.339	ng/ml
42)	Aroclor 1260 (2)	8.752	7007	0.638	ng/ml
43)	Aroclor 1260 (3)	9.016	1578	0.142	ng/ml
44)	Aroclor 1260 (4)	9.535	2480	0.157	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R016.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 11:52 am
Operator : MJB/KAK
Sample : 0F09029-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:17 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.842	3132	0.338 ng/ml
46)	Aroclor 1260 (6)	10.507	7658	2.110 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.752	7007	0.829 ng/ml
49)	Aroclor 1262 (2)	9.081	810	0.071 ng/ml
50)	Aroclor 1262 (3)	9.260	2362	0.269 ng/ml
51)	Aroclor 1262 (4)	9.535	2480	0.139 ng/ml
52)	Aroclor 1262 (5)	9.842	3132	0.293 ng/ml
53)	Aroclor 1262 (6)	10.507	7658	1.601 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	9.299	6533	1.331 ng/ml
56)	Aroclor 1268 (2)	9.842	3132	0.156 ng/ml
57)	Aroclor 1268 (3)	9.910	1611	0.099 ng/ml
58)	Aroclor 1268 (4)	10.167	64372	4.602 ng/ml
59)	Aroclor 1268 (5)	10.507	7658	1.441 ng/ml
60)	Aroclor 1268 (6)	10.927	86319	2.377 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

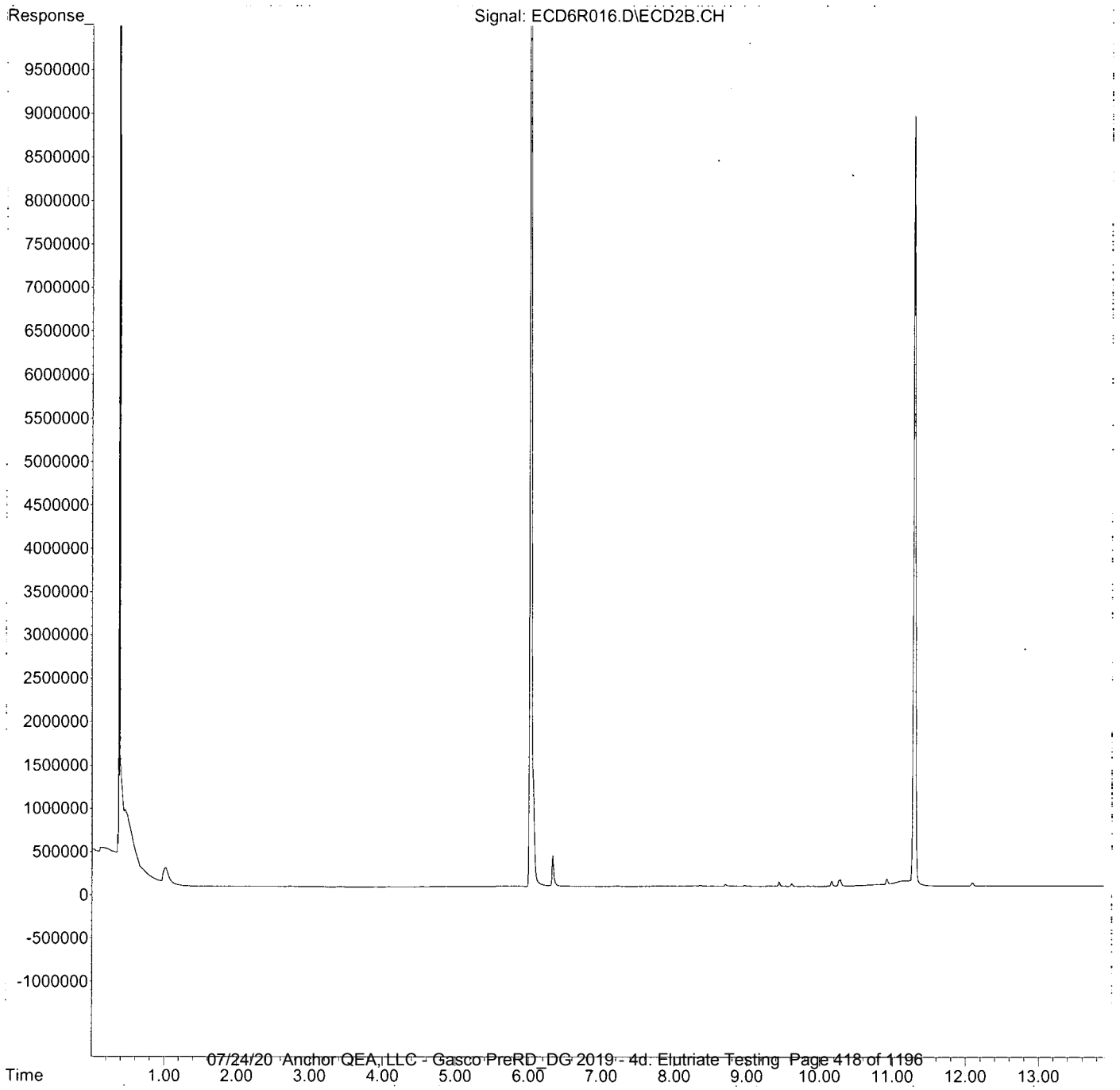
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R016.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 11:52 am
Operator : MJB/KAK
Sample : 0F09029-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:17 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R017.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:10 pm
Operator : MJB/KAK
Sample : 0060161-BLK1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:26 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/9/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.022	31846019	177.168	ng/ml
62) S	DCBP (S)	11.301	25569334	327.583	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.698	2567	0.487	ng/ml
3)	Aroclor 1016 (2)	7.195	2968	0.350	ng/ml
4)	Aroclor 1016 (3)	7.315	1612	0.405	ng/ml
5)	Aroclor 1016 (4)	7.401	2069	0.464	ng/ml
6)	Aroclor 1016 (5)	7.448	2084	0.432	ng/ml
7)	Aroclor 1016 (6)	7.575	2367	0.500	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.247f	15467	11.073	ng/ml
10)	Aroclor 1221 (2)	6.277	13606	10.399	ng/ml
11)	Aroclor 1221 (3)	6.332	678978	160.684	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.332	678978	195.476	ng/ml
14)	Aroclor 1232 (2)	6.698	2567	1.243	ng/ml
15)	Aroclor 1232 (3)	7.195	2968	0.888	ng/ml
16)	Aroclor 1232 (4)	7.401	2069	1.442	ng/ml
17)	Aroclor 1232 (5)	7.448	2084	1.257	ng/ml
18)	Aroclor 1232 (6)	7.575	2367	1.415	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.698	2567	0.693	ng/ml
21)	Aroclor 1242 (2)	7.195	2968	0.475	ng/ml
22)	Aroclor 1242 (3)	7.315	1612	0.539	ng/ml
23)	Aroclor 1242 (4)	7.401	2069	0.686	ng/ml
24)	Aroclor 1242 (5)	7.448	2084	0.618	ng/ml
25)	Aroclor 1242 (6)	7.575	2367	0.675	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.167	2407	0.614	ng/ml
28)	Aroclor 1248 (2)	7.401	2069	0.398	ng/ml
29)	Aroclor 1248 (3)	7.448	2084	0.438	ng/ml
30)	Aroclor 1248 (4)	7.575	2367	0.415	ng/ml
31)	Aroclor 1248 (5)	7.947	2186	0.318	ng/ml
32)	Aroclor 1248 (6)	8.103	3278	0.556	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.918	2817	0.371	ng/ml
35)	Aroclor 1254 (2)	8.103	3278	0.297	ng/ml
36)	Aroclor 1254 (3)	8.417	3449	0.283	ng/ml
37)	Aroclor 1254 (4)	8.661	2327	0.280	ng/ml
38)	Aroclor 1254 (5)	8.992	6508	0.725	ng/ml
39)	Aroclor 1254 (6)	9.232	1266	0.497	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.551	4750	0.513	ng/ml
42)	Aroclor 1260 (2)	8.756	8928	0.813	ng/ml
43)	Aroclor 1260 (3)	8.992	6508	0.587	ng/ml
44)	Aroclor 1260 (4)	9.532	3845	0.244	ng/ml

↑ DMSL N.P.M. 6/9/20

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R017.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:10 pm
Operator : MJB/KAK
Sample : 0060161-BLK1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:26 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.836	10483	1.130 ng/ml
46)	Aroclor 1260 (6)	10.511	20824	5.738 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.756	8928	1.057 ng/ml
49)	Aroclor 1262 (2)	9.064	3549	0.309 ng/ml
50)	Aroclor 1262 (3)	9.262	3742	0.426 ng/ml
51)	Aroclor 1262 (4)	9.532	3845	0.216 ng/ml
52)	Aroclor 1262 (5)	9.836	10483	0.979 ng/ml
53)	Aroclor 1262 (6)	10.511	20824	4.353 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	9.308	3006	0.613 ng/ml
56)	Aroclor 1268 (2)	9.836	10483	0.522 ng/ml
57)	Aroclor 1268 (3)	9.910	6624	0.408 ng/ml
58)	Aroclor 1268 (4)	10.166	463585	33.141 ng/ml
59)	Aroclor 1268 (5)	10.511	20824	3.920 ng/ml
60)	Aroclor 1268 (6)	10.924	1027295	28.284 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

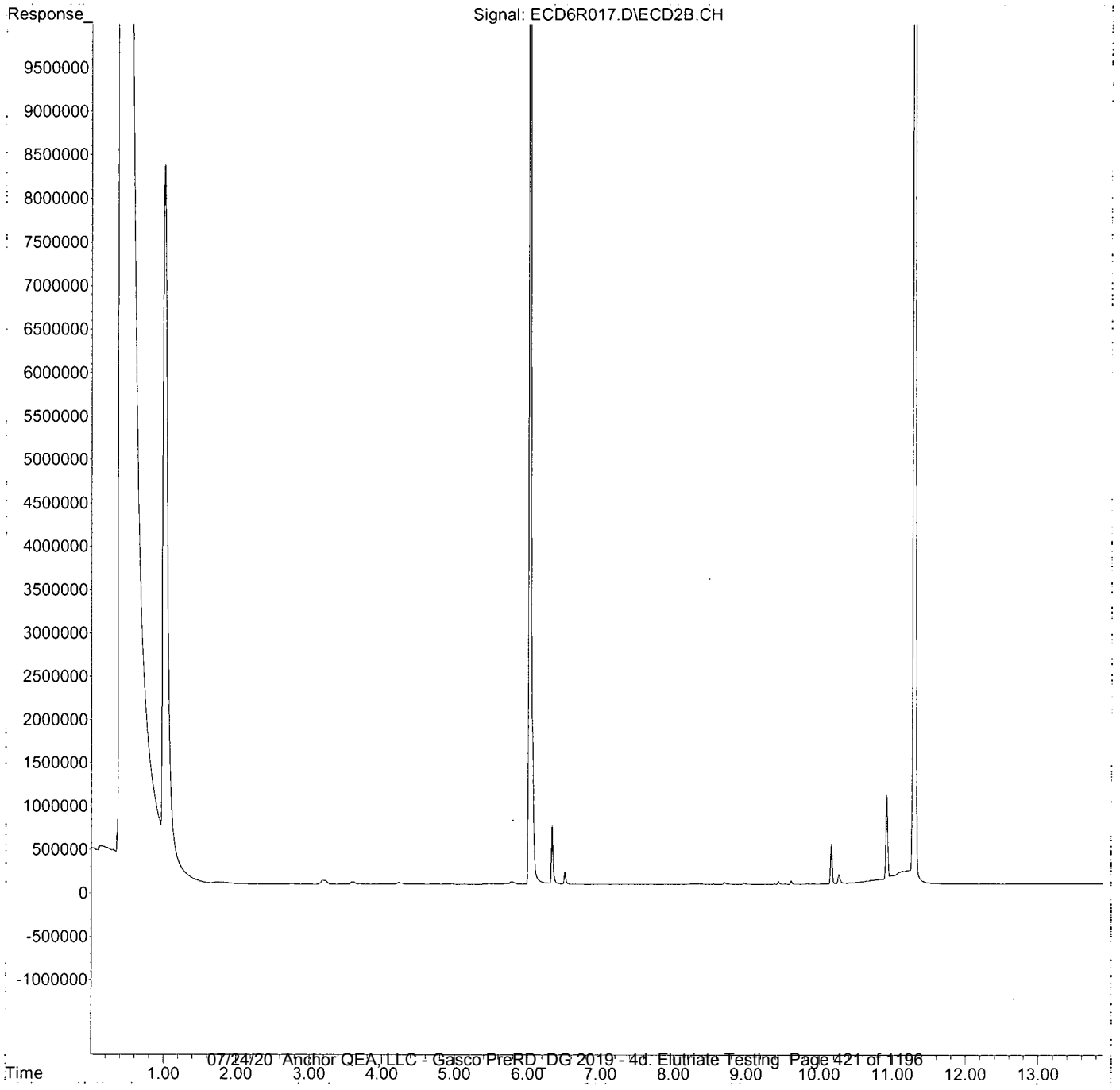
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R017.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:10 pm
Operator : MJB/KAK
Sample : 0060161-BLK1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:26 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R018.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:27 pm
Operator : MJB/KAK
Sample : 0060161-BS1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:34 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/9/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.023	34453571	191.674	ng/ml
62) S	DCBP (S)	11.302	25601374	327.993	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.695	3094292	586.880	ng/ml
3)	Aroclor 1016 (2)	7.189	6637043	781.854	ng/ml
4)	Aroclor 1016 (3)	7.318	2645354	664.465	ng/ml
5)	Aroclor 1016 (4)	7.400	3424946	768.893	ng/ml
6)	Aroclor 1016 (5)	7.447	3734537	775.079	ng/ml
7)	Aroclor 1016 (6)	7.575	3563102	753.249	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.181	259679	185.915	ng/ml
10)	Aroclor 1221 (2)	6.270	395002	301.899	ng/ml
11)	Aroclor 1221 (3)	6.357	1963489	464.670	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.357	1963489	565.284	ng/ml
14)	Aroclor 1232 (2)	6.695	3094292	1498.187	ng/ml
15)	Aroclor 1232 (3)	7.189	6637043	1985.473	ng/ml
16)	Aroclor 1232 (4)	7.400	3424946	2387.420	ng/ml
17)	Aroclor 1232 (5)	7.447	3734537	2253.274	ng/ml
18)	Aroclor 1232 (6)	7.575	3563102	2129.119	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.695	3094292	835.320	ng/ml
21)	Aroclor 1242 (2)	7.189	6637043	1061.744	ng/ml
22)	Aroclor 1242 (3)	7.318	2645354	885.139	ng/ml
23)	Aroclor 1242 (4)	7.400	3424946	1135.706	ng/ml
24)	Aroclor 1242 (5)	7.447	3734537	1108.222	ng/ml
25)	Aroclor 1242 (6)	7.575	3563102	1016.439	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.160	5875351	1499.581	ng/ml
28)	Aroclor 1248 (2)	7.400	3424946	658.350	ng/ml
29)	Aroclor 1248 (3)	7.447	3734537	784.839	ng/ml
30)	Aroclor 1248 (4)	7.575	3563102	624.922	ng/ml
31)	Aroclor 1248 (5)	7.941	891043	129.433	ng/ml
32)	Aroclor 1248 (6)	8.100	3253827	551.462	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.919	2651396	349.112	ng/ml
35)	Aroclor 1254 (2)	8.100	3253827	294.858	ng/ml
36)	Aroclor 1254 (3)	8.416	1707202	140.191	ng/ml
37)	Aroclor 1254 (4)	8.657	1174427	141.436	ng/ml
38)	Aroclor 1254 (5)	8.995	10367620	1154.559	ng/ml
39)	Aroclor 1254 (6)	9.227	1430129	562.049	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.550	8244778	890.973	ng/ml
42)	Aroclor 1260 (2)	8.757	10826186	985.505	ng/ml
43)	Aroclor 1260 (3)	8.995	10367620	934.424	ng/ml
44)	Aroclor 1260 (4)	9.533	16803168	1066.451	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R018.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:27 pm
Operator : MJB/KAK
Sample : 0060161-BS1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:34 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.837	8955552	965.630	ng/ml
46)	Aroclor 1260 (6)	10.505	3513303	968.095	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.757	10826186	1281.565	ng/ml
49)	Aroclor 1262 (2)	9.064	7747889	675.374	ng/ml
50)	Aroclor 1262 (3)	9.261	7149086	814.210	ng/ml
51)	Aroclor 1262 (4)	9.533	16803168	943.604	ng/ml
52)	Aroclor 1262 (5)	9.837	8955552	836.460	ng/ml
53)	Aroclor 1262 (6)	10.505	3513303	734.390	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.306	549755	112.042	ng/ml
56)	Aroclor 1268 (2)	9.837	8955552	445.711	ng/ml
57)	Aroclor 1268 (3)	9.911	3785371	232.891	ng/ml
58)	Aroclor 1268 (4)	10.165	605179	43.264	ng/ml
59)	Aroclor 1268 (5)	10.505	3513303	661.299	ng/ml
60)	Aroclor 1268 (6)	10.926	1723819	47.461	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

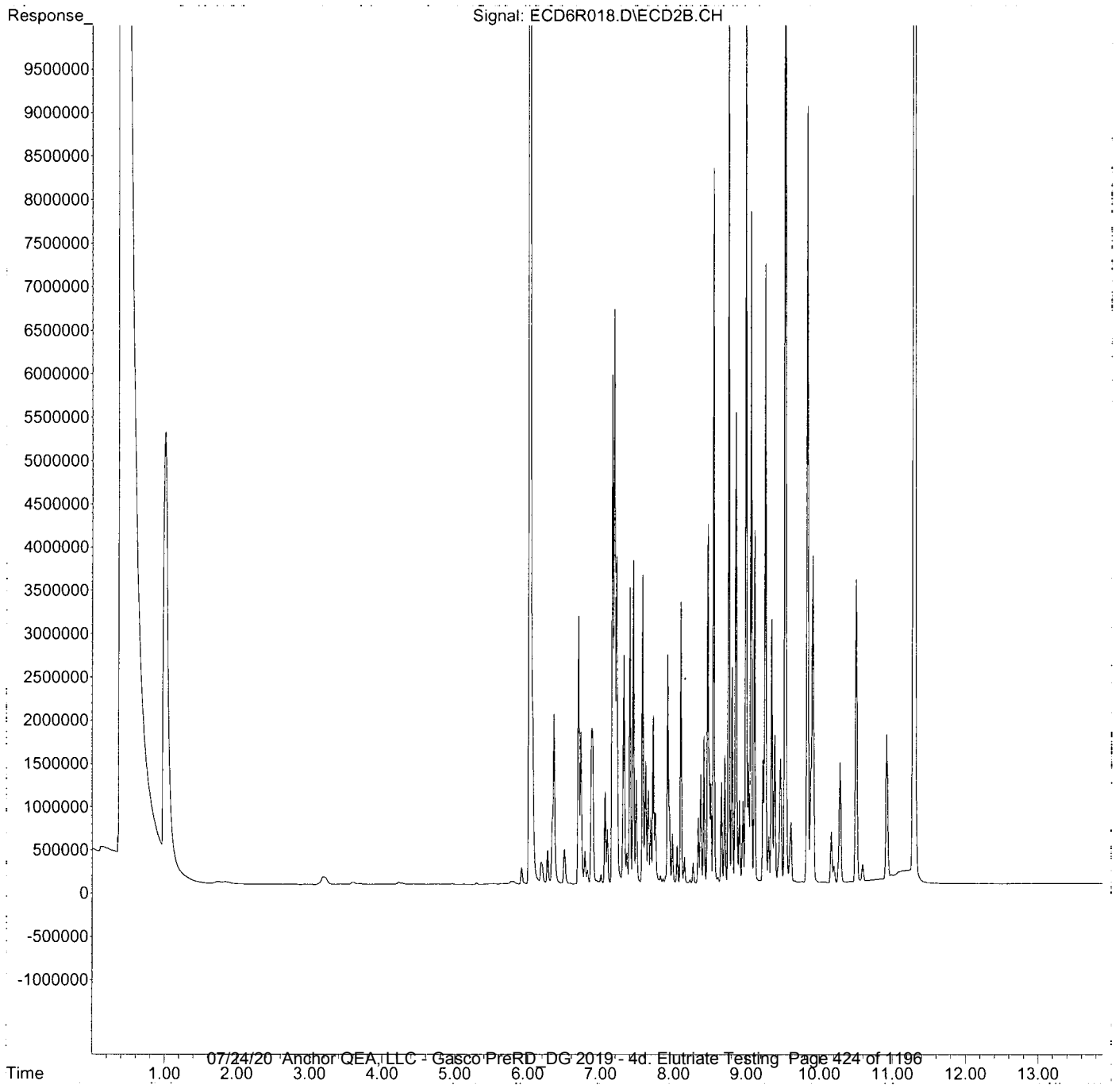
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R018.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:27 pm
Operator : MJB/KAK
Sample : 0060161-BS1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:34 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R019.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:45 pm
Operator : MJB/KAK
Sample : 0060161-BSD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:44 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/19/20

Q-19

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.023	33564646	186.729	ng/ml
62)	S DCBP (S)	11.302	25387853	325.258	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.694	3195386	606.054	ng/ml
3)	Aroclor 1016 (2)	7.189	6341853	747.080	ng/ml
4)	Aroclor 1016 (3)	7.318	2312848	580.946	ng/ml
5)	Aroclor 1016 (4)	7.400	3335105	748.724	ng/ml
6)	Aroclor 1016 (5)	7.447	3620046	751.318	ng/ml
7)	Aroclor 1016 (6)	7.575	3264637	690.153	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.182	242964	173.948	ng/ml
10)	Aroclor 1221 (2)	6.270	383047	292.762	ng/ml
11)	Aroclor 1221 (3)	6.357	1820406	430.809	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.357	1820406	524.090	ng/ml
14)	Aroclor 1232 (2)	6.694	3195386	1547.134	ng/ml
15)	Aroclor 1232 (3)	7.189	6341853	1897.167	ng/ml
16)	Aroclor 1232 (4)	7.400	3335105	2324.795	ng/ml
17)	Aroclor 1232 (5)	7.447	3620046	2184.195	ng/ml
18)	Aroclor 1232 (6)	7.575	3264637	1950.772	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.694	3195386	862.611	ng/ml
21)	Aroclor 1242 (2)	7.189	6341853	1014.522	ng/ml
22)	Aroclor 1242 (3)	7.318	2312848	773.882	ng/ml
23)	Aroclor 1242 (4)	7.400	3335105	1105.915	ng/ml
24)	Aroclor 1242 (5)	7.447	3620046	1074.247	ng/ml
25)	Aroclor 1242 (6)	7.575	3264637	931.297	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.160	5525862	1410.380	ng/ml
28)	Aroclor 1248 (2)	7.400	3335105	641.081	ng/ml
29)	Aroclor 1248 (3)	7.447	3620046	760.778	ng/ml
30)	Aroclor 1248 (4)	7.575	3264637	572.575	ng/ml
31)	Aroclor 1248 (5)	7.919	2577679	374.435	ng/ml
32)	Aroclor 1248 (6)	8.100	3221490	545.981	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.919	2577679	339.406	ng/ml
35)	Aroclor 1254 (2)	8.100	3221490	291.928	ng/ml
36)	Aroclor 1254 (3)	8.416	1546391	126.986	ng/ml
37)	Aroclor 1254 (4)	8.657	1117627	134.595	ng/ml
38)	Aroclor 1254 (5)	8.994	9994916	1113.053	ng/ml
39)	Aroclor 1254 (6)	9.226	1348972	530.154	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.551	8050263	869.953	ng/ml
42)	Aroclor 1260 (2)	8.757	10360379	943.103	ng/ml
43)	Aroclor 1260 (3)	8.994	9994916	900.832	ng/ml
44)	Aroclor 1260 (4)	9.534	16338387	1036.952	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R019.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:45 pm
Operator : MJB/KAK
Sample : 0060161-BSD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:44 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.838	8698625	937.927	ng/ml
46)	Aroclor 1260 (6)	10.506	3405153	938.294	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.757	10360379	1226.424	ng/ml
49)	Aroclor 1262 (2)	9.064	7500804	653.835	ng/ml
50)	Aroclor 1262 (3)	9.261	6855515	780.775	ng/ml
51)	Aroclor 1262 (4)	9.534	16338387	917.503	ng/ml
52)	Aroclor 1262 (5)	9.838	8698625	812.463	ng/ml
53)	Aroclor 1262 (6)	10.506	3405153	711.783	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.306	539978	110.050	ng/ml
56)	Aroclor 1268 (2)	9.838	8698625	432.924	ng/ml
57)	Aroclor 1268 (3)	9.911	3571870	219.755	ng/ml
58)	Aroclor 1268 (4)	10.165	588823	42.094	ng/ml
59)	Aroclor 1268 (5)	10.506	3405153	640.942	ng/ml
60)	Aroclor 1268 (6)	10.925	1637132	45.075	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

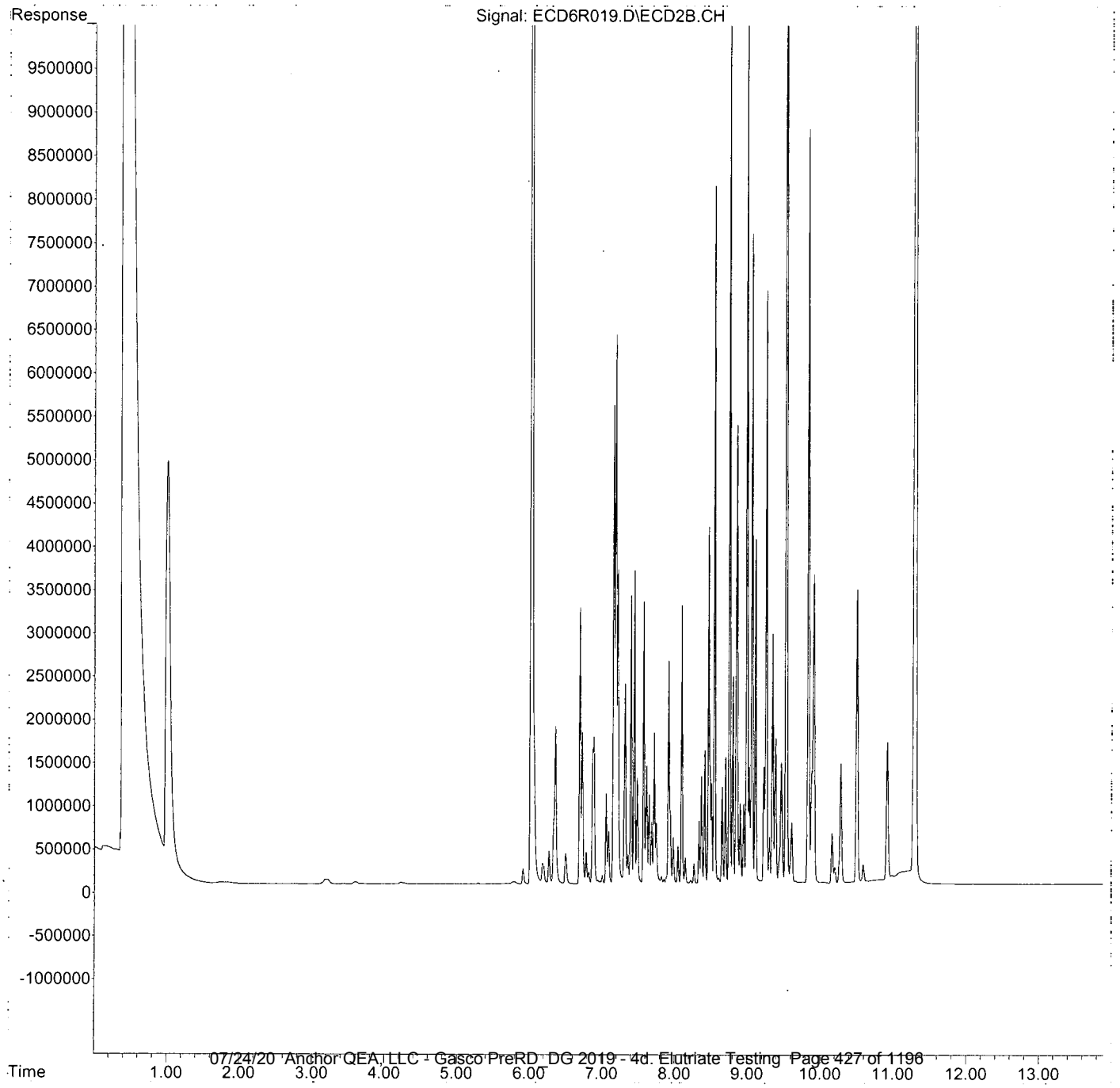
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R019.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 12:45 pm
Operator : MJB/KAK
Sample : 0060161-BSD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:10:44 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R020.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:03 pm
Operator : MJB/KAK
Sample : A0E0669-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:23:28 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/19/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.023	43199214	240.328	ng/ml
62) S	DCBP (S)	11.302	30992315	397.060	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.702	4366	0.828	ng/ml
3)	Aroclor 1016 (2)	7.197	5538	0.652	ng/ml
4)	Aroclor 1016 (3)	7.316	2628	0.660	ng/ml
5)	Aroclor 1016 (4)	7.402	3324	0.746	ng/ml
6)	Aroclor 1016 (5)	7.450	3167	0.657	ng/ml
7)	Aroclor 1016 (6)	7.576	2722	0.575	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10)	Aroclor 1221 (2)	6.271	16263	12.430	ng/ml
11)	Aroclor 1221 (3)	6.333	853039	201.876	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.333	853039	245.588	ng/ml
14)	Aroclor 1232 (2)	6.702	4366	2.114	ng/ml
15)	Aroclor 1232 (3)	7.197	5538	1.657	ng/ml
16)	Aroclor 1232 (4)	7.402	3324	2.317	ng/ml
17)	Aroclor 1232 (5)	7.450	3167	1.911	ng/ml
18)	Aroclor 1232 (6)	7.576	2722	1.627	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.702	4366	1.179	ng/ml
21)	Aroclor 1242 (2)	7.197	5538	0.886	ng/ml
22)	Aroclor 1242 (3)	7.316	2628	0.879	ng/ml
23)	Aroclor 1242 (4)	7.402	3324	1.102	ng/ml
24)	Aroclor 1242 (5)	7.450	3167	0.940	ng/ml
25)	Aroclor 1242 (6)	7.576	2722	0.777	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.172	5202	1.328	ng/ml
28)	Aroclor 1248 (2)	7.402	3324	0.639	ng/ml
29)	Aroclor 1248 (3)	7.450	3167	0.666	ng/ml
30)	Aroclor 1248 (4)	7.576	2722	0.477	ng/ml
31)	Aroclor 1248 (5)	7.945	3714	0.539	ng/ml
32)	Aroclor 1248 (6)	8.103	4958	0.840	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.919	3985	0.525	ng/ml
35)	Aroclor 1254 (2)	8.103	4958	0.449	ng/ml
36)	Aroclor 1254 (3)	8.413	4756	0.391	ng/ml
37)	Aroclor 1254 (4)	8.660	3842	0.463	ng/ml
38)	Aroclor 1254 (5)	8.990	8690	0.968	ng/ml
39)	Aroclor 1254 (6)	9.201	242	0.095	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.550	5145	0.556	ng/ml
42)	Aroclor 1260 (2)	8.755	15195	1.383	ng/ml
43)	Aroclor 1260 (3)	8.990	8690	0.783	ng/ml
44)	Aroclor 1260 (4)	9.533	5986	0.380	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R020.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:03 pm
Operator : MJB/KAK
Sample : A0E0669-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:23:28 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.838	12476	1.345 ng/ml
46)	Aroclor 1260 (6)	10.505	24122	6.647 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.755	15195	1.799 ng/ml
49)	Aroclor 1262 (2)	9.065	4510	0.393 ng/ml
50)	Aroclor 1262 (3)	9.263	5533	0.630 ng/ml
51)	Aroclor 1262 (4)	9.533	5986	0.336 ng/ml
52)	Aroclor 1262 (5)	9.838	12476	1.165 ng/ml
53)	Aroclor 1262 (6)	10.505	24122	5.042 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	9.308	3745	0.763 ng/ml
56)	Aroclor 1268 (2)	9.838	12476	0.621 ng/ml
57)	Aroclor 1268 (3)	9.912	7551	0.465 ng/ml
58)	Aroclor 1268 (4)	10.165	524571	37.501 ng/ml
59)	Aroclor 1268 (5)	10.505	24122	4.540 ng/ml
60)	Aroclor 1268 (6)	10.926	1120635	30.854 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

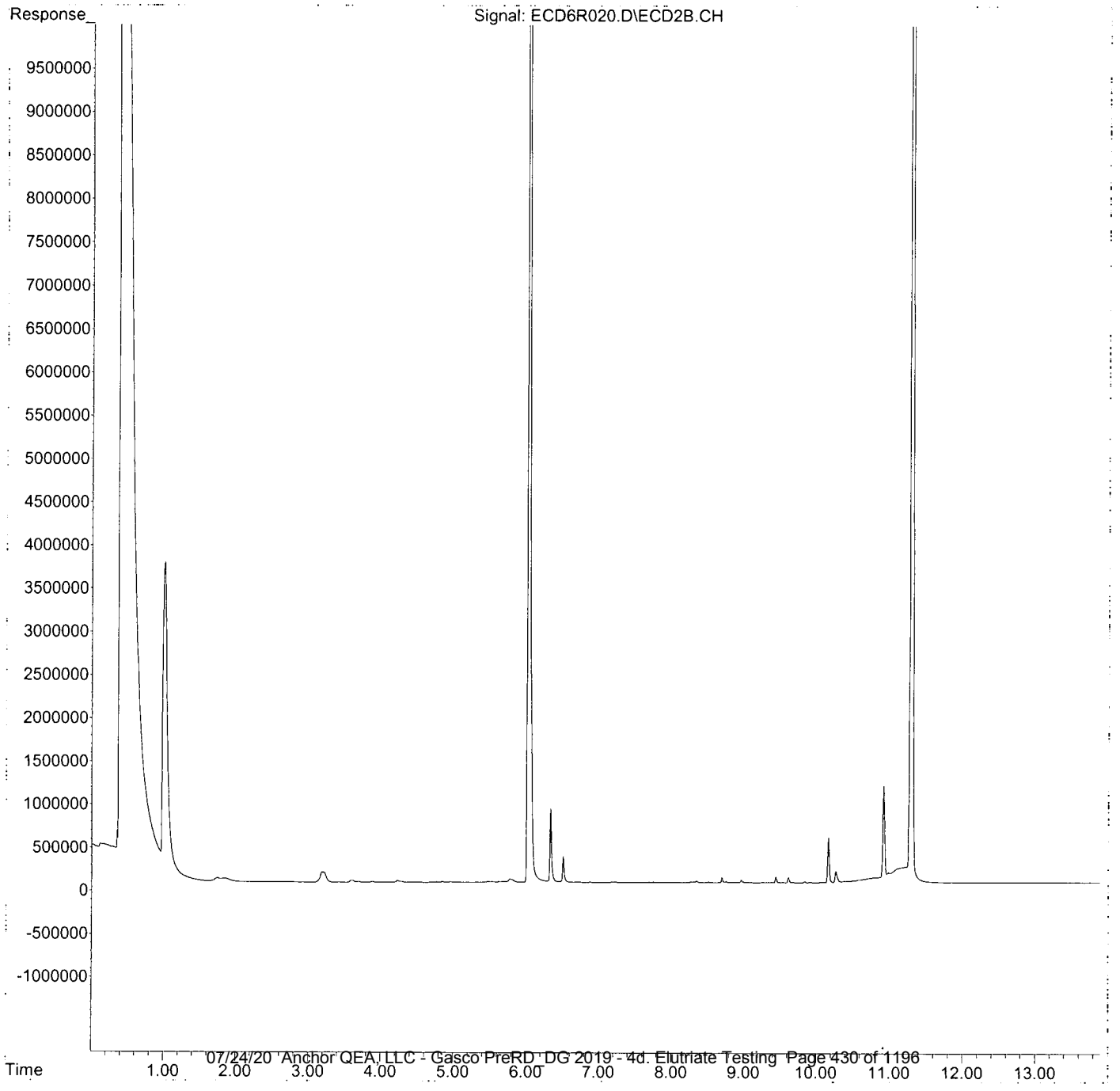
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R020.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:03 pm
Operator : MJB/KAK
Sample : A0E0669-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:23:28 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R021.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:20 pm
Operator : MJB/KAK
Sample : 0F09029-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:55:40 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/19/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.023	47316628	263.235	ng/ml
62)	S DCBP (S)	11.301	21593274	276.643	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.695	2657314	504.000	ng/ml
3)	Aroclor 1016 (2)	7.189	4864342	573.027	ng/ml
4)	Aroclor 1016 (3)	7.319	2121773	532.951	ng/ml
5)	Aroclor 1016 (4)	7.401	2466229	553.663	ng/ml
6)	Aroclor 1016 (5)	7.447	2649419	549.870	ng/ml
7)	Aroclor 1016 (6)	7.575	2594836	548.555	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.181	250436	179.298	ng/ml
10)	Aroclor 1221 (2)	6.270	368186	281.404	ng/ml
11)	Aroclor 1221 (3)	6.357	1741321	412.093	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.357	1741321	501.322	ng/ml
14)	Aroclor 1232 (2)	6.695	2657314	1286.612	ng/ml
15)	Aroclor 1232 (3)	7.189	4864342	1455.169	ng/ml
16)	Aroclor 1232 (4)	7.401	2466229	1719.129	ng/ml
17)	Aroclor 1232 (5)	7.447	2649419	1598.556	ng/ml
18)	Aroclor 1232 (6)	7.575	2594836	1550.535	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.695	2657314	717.355	ng/ml
21)	Aroclor 1242 (2)	7.189	4864342	778.161	ng/ml
22)	Aroclor 1242 (3)	7.319	2121773	709.948	ng/ml
23)	Aroclor 1242 (4)	7.401	2466229	817.797	ng/ml
24)	Aroclor 1242 (5)	7.447	2649419	786.214	ng/ml
25)	Aroclor 1242 (6)	7.575	2594836	740.224	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.160	4182101	1067.408	ng/ml
28)	Aroclor 1248 (2)	7.401	2466229	474.064	ng/ml
29)	Aroclor 1248 (3)	7.447	2649419	556.794	ng/ml
30)	Aroclor 1248 (4)	7.575	2594836	455.101	ng/ml
31)	Aroclor 1248 (5)	7.919	1870292	271.679	ng/ml
32)	Aroclor 1248 (6)	8.100	2173882	368.432	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.919	1870292	246.263	ng/ml
35)	Aroclor 1254 (2)	8.100	2173882	196.995	ng/ml
36)	Aroclor 1254 (3)	8.417	1220344	100.212	ng/ml
37)	Aroclor 1254 (4)	8.658	798847	96.205	ng/ml
38)	Aroclor 1254 (5)	8.995	6621140	737.343	ng/ml
39)	Aroclor 1254 (6)	9.227	870593	342.148	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.552	5283825	570.997	ng/ml
42)	Aroclor 1260 (2)	8.757	6690210	609.008	ng/ml
43)	Aroclor 1260 (3)	8.995	6621140	596.757	ng/ml
44)	Aroclor 1260 (4)	9.534	10052290	637.991	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R021.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:20 pm
Operator : MJB/KAK
Sample : 0F09029-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:55:40 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.838	5543348	597.710	ng/ml
46)	Aroclor 1260 (6)	10.506	2103502	579.623	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.757	6690210	791.963	ng/ml
49)	Aroclor 1262 (2)	9.064	4666308	406.756	ng/ml
50)	Aroclor 1262 (3)	9.261	4499956	512.500	ng/ml
51)	Aroclor 1262 (4)	9.534	10052290	564.499	ng/ml
52)	Aroclor 1262 (5)	9.838	5543348	517.756	ng/ml
53)	Aroclor 1262 (6)	10.506	2103502	439.697	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.307	366685	74.732	ng/ml
56)	Aroclor 1268 (2)	9.838	5543348	275.888	ng/ml
57)	Aroclor 1268 (3)	9.912	2318766	142.659	ng/ml
58)	Aroclor 1268 (4)	10.166	199891	14.290	ng/ml
59)	Aroclor 1268 (5)	10.506	2103502	395.936	ng/ml
60)	Aroclor 1268 (6)	10.926	597348	16.447	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

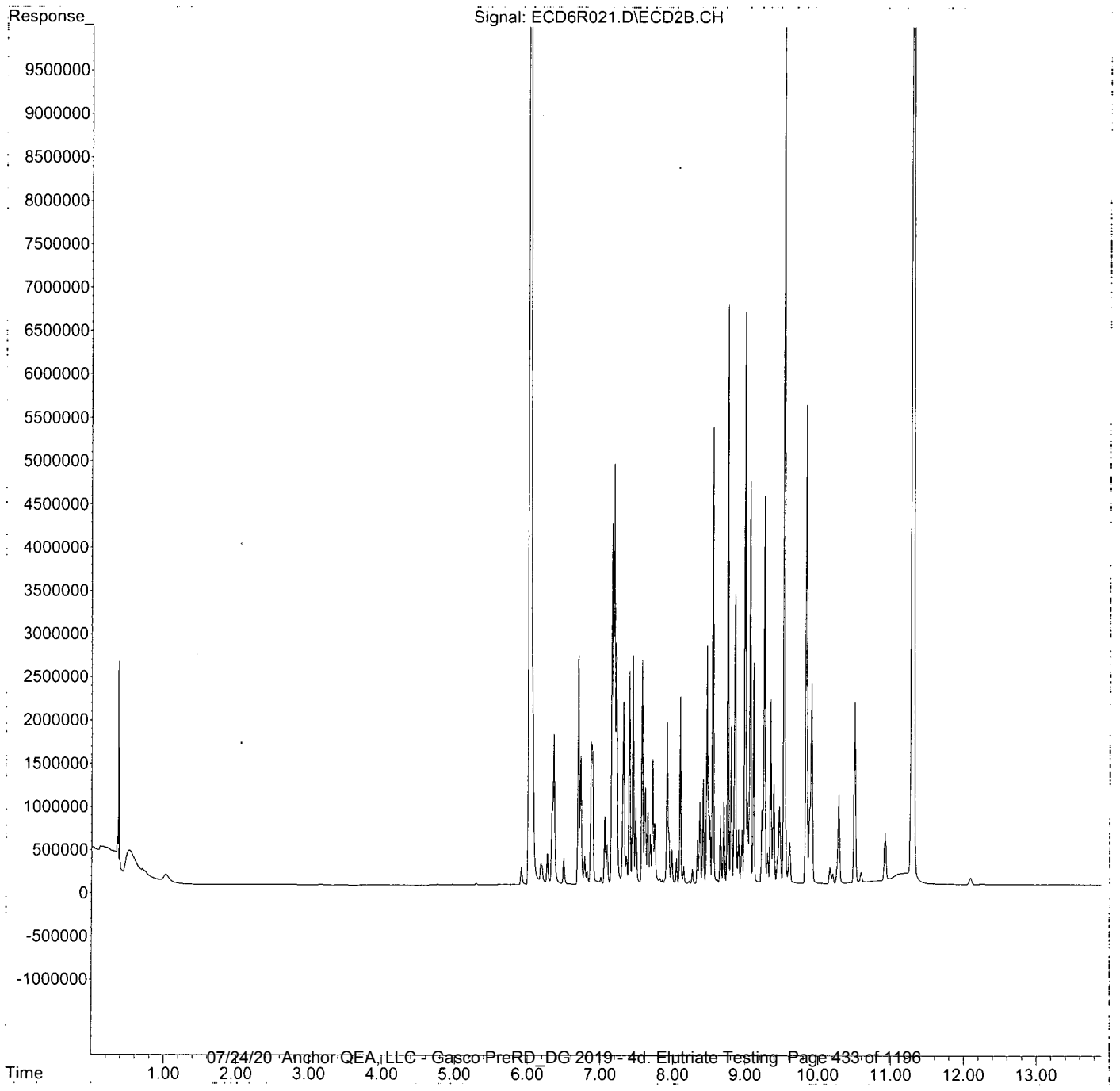
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R021.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:20 pm
Operator : MJB/KAK
Sample : 0F09029-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:55:40 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R022.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:38 pm
Operator : MJB/KAK
Sample : 0F09029-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:55:58 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

6/19/20 clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	6.022	18808722	104.638 ng/ml
62) S	DCBP (S)	11.302	9141812	117.121 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.695	831	0.158 ng/ml
3)	Aroclor 1016 (2)	7.178	2469	0.291 ng/ml
4)	Aroclor 1016 (3)	7.314	1647	0.414 ng/ml
5)	Aroclor 1016 (4)	7.400	1343	0.302 ng/ml
6)	Aroclor 1016 (5)	7.445	1522	0.316 ng/ml
7)	Aroclor 1016 (6)	7.566	1632	0.345 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10)	Aroclor 1221 (2)	6.268	11285	8.625 ng/ml
11)	Aroclor 1221 (3)	6.333	354631	83.925 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.333	354631	102.097 ng/ml
14)	Aroclor 1232 (2)	6.695	831	0.402 ng/ml
15)	Aroclor 1232 (3)	7.178	2469	0.738 ng/ml
16)	Aroclor 1232 (4)	7.400	1343	0.936 ng/ml
17)	Aroclor 1232 (5)	7.445	1522	0.919 ng/ml
18)	Aroclor 1232 (6)	7.566	1632	0.975 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.695	831	0.224 ng/ml
21)	Aroclor 1242 (2)	7.178	2469	0.395 ng/ml
22)	Aroclor 1242 (3)	7.314	1647	0.551 ng/ml
23)	Aroclor 1242 (4)	7.400	1343	0.445 ng/ml
24)	Aroclor 1242 (5)	7.445	1522	0.452 ng/ml
25)	Aroclor 1242 (6)	7.566	1632	0.466 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	7.145	916	0.234 ng/ml
28)	Aroclor 1248 (2)	7.400	1343	0.258 ng/ml
29)	Aroclor 1248 (3)	7.445	1522	0.320 ng/ml
30)	Aroclor 1248 (4)	7.566	1632	0.286 ng/ml
31)	Aroclor 1248 (5)	7.945	2558	0.372 ng/ml
32)	Aroclor 1248 (6)	8.108	2315	0.392 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.922	2700	0.356 ng/ml
35)	Aroclor 1254 (2)	8.108	2315	0.210 ng/ml
36)	Aroclor 1254 (3)	8.416	3800	0.312 ng/ml
37)	Aroclor 1254 (4)	8.663	1952	0.235 ng/ml
38)	Aroclor 1254 (5)	8.967	18283	2.036 ng/ml
39)	Aroclor 1254 (6)	9.223	410	0.161 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.551	3010	0.325 ng/ml
42)	Aroclor 1260 (2)	8.755	7011	0.638 ng/ml
43)	Aroclor 1260 (3)	8.967	18283	1.648 ng/ml
44)	Aroclor 1260 (4)	9.537	2659	0.169 ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R022.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:38 pm
Operator : MJB/KAK
Sample : 0F09029-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:55:58 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.840	3356	0.362	ng/ml
46)	Aroclor 1260 (6)	10.515	7424	2.046	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.755	7011	0.830	ng/ml
49)	Aroclor 1262 (2)	9.078	938	0.082	ng/ml
50)	Aroclor 1262 (3)	9.259	2606	0.297	ng/ml
51)	Aroclor 1262 (4)	9.537	2659	0.149	ng/ml
52)	Aroclor 1262 (5)	9.840	3356	0.313	ng/ml
53)	Aroclor 1262 (6)	10.515	7424	1.552	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.301	5785	1.179	ng/ml
56)	Aroclor 1268 (2)	9.840	3356	0.167	ng/ml
57)	Aroclor 1268 (3)	9.922	1019	0.063	ng/ml
58)	Aroclor 1268 (4)	10.167	65575	4.688	ng/ml
59)	Aroclor 1268 (5)	10.515	7424	1.397	ng/ml
60)	Aroclor 1268 (6)	10.928	84819	2.335	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

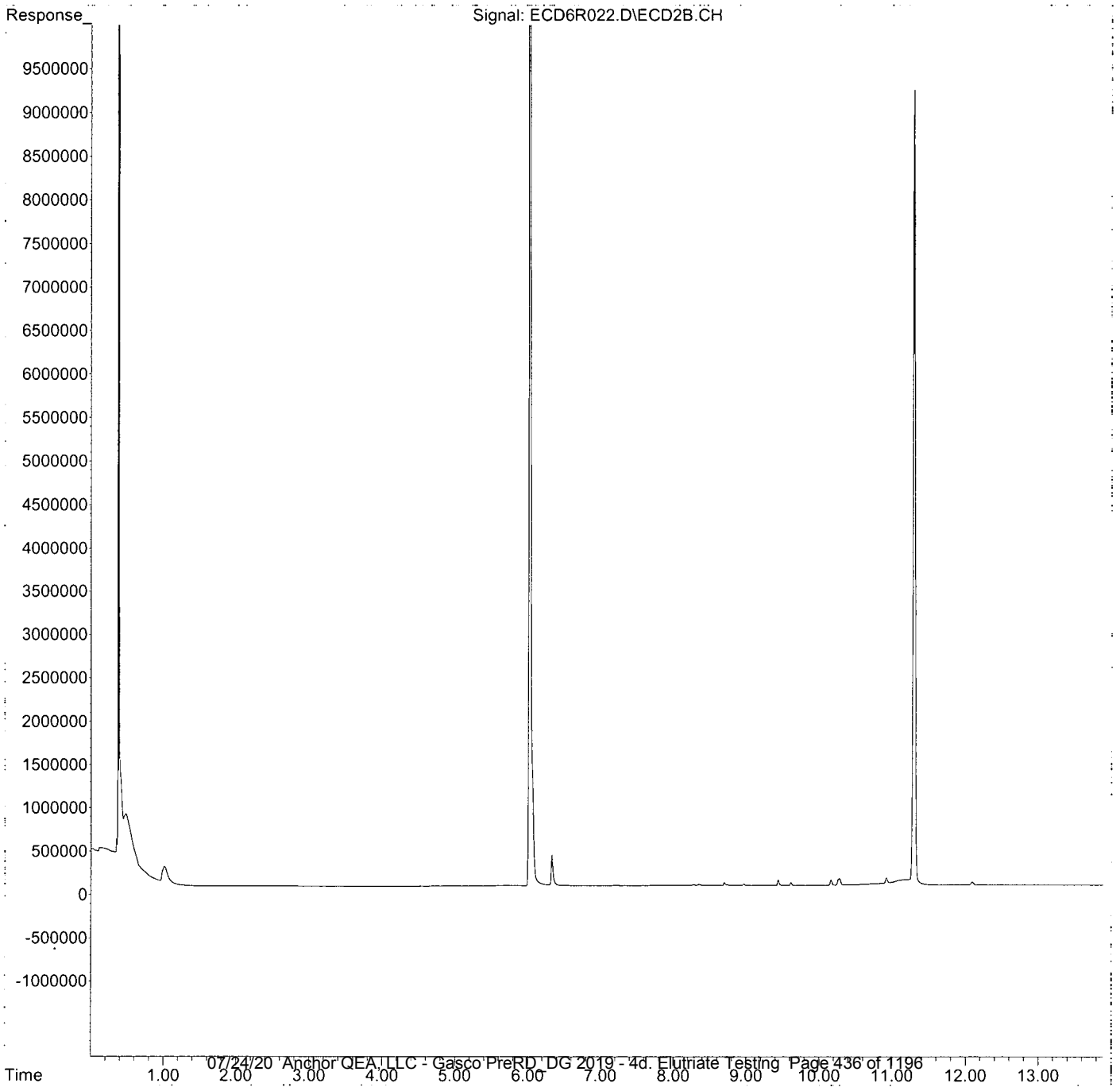
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0F09029\
Data File : ECD6R022.D
Signal(s) : ECD2B.CH
Acq On : 09 Jun 2020 1:38 pm
Operator : MJB/KAK
Sample : 0F09029-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jun 09 13:55:58 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326RT2.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



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

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 0C26028 (Cal ID A0C2703) DUALECD6R

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0C26028	Instrument:	DUALECD6R
Date:	03/26/20 06:42	Calibration:	A0C2703

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0C26028-ICB1	Water	QC	QC				A20C404
2	0C26028-CAL1	Water	QC	QC				A19L280
3	0C26028-CAL2	Water	QC	QC				A19L281
4	0C26028-CAL3	Water	QC	QC				A19L282
5	0C26028-CAL4	Water	QC	QC				A19L283
6	0C26028-CAL5	Water	QC	QC				A19L276
7	0C26028-CAL6	Water	QC	QC				A19L278
8	0C26028-CAL7	Water	QC	QC				A19L279
9	0C26028-IBL1	Water	QC	QC				
10	0C26028-ICV1	Water	QC	QC				A20B355
11	0C26028-CAL8	Water	QC	QC				A20C117
12	0C26028-CAL9	Water	QC	QC				A20B322
13	0C26028-CALA	Water	QC	QC				A20B323
14	0C26028-CALB	Water	QC	QC				A20B324
15	0C26028-CALC	Water	QC	QC				A20B325
16	0C26028-CALD	Water	QC	QC				A20B326
17	0C26028-CALE	Water	QC	QC				A20B327
18	0C26028-ICV2	Water	QC	QC				A20B353
19	0C26028-ICV3	Water	QC	QC				A19J367
20	0C26028-ICV4	Water	QC	QC				A20B354
21	0C26028-ICV5	Water	QC	QC				A20B130

Comments:

Data Entered By: 3/27/20

Data Reviewed By: 3/30/20

Calibration Status Report HP G1530A

Method Path : T:\METHODS\
Method File : RECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Fri Mar 27 09:36:18 2020
Response Via : Initial Calibration

AOC2703
3/27/20

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	S:\DATA\0C26028\ECD6R006.D
2	2	25	0	S:\DATA\0C26028\ECD6R007.D
3	3	50	0	S:\DATA\0C26028\ECD6R008.D
4	4	100	0	S:\DATA\0C26028\ECD6R009.D
5	5	250	0	S:\DATA\0C26028\ECD6R021.D
6	6	500	0	S:\DATA\0C26028\ECD6R011.D
7	7	800	0	S:\DATA\0C26028\ECD6R012.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 27 09:33 2020	Mar 27 08:45 2020	26 Mar 2020 8:31 am
2	2	Mar 27 09:33 2020	Mar 27 08:50 2020	26 Mar 2020 8:49 am
3	3	Mar 27 09:34 2020	Mar 27 08:51 2020	26 Mar 2020 9:06 am
4	4	Mar 27 09:34 2020	Mar 27 08:52 2020	26 Mar 2020 9:24 am
5	5	Mar 27 09:36 2020	Mar 27 09:18 2020	26 Mar 2020 5:57 pm
6	6	Mar 27 09:34 2020	Mar 27 08:53 2020	26 Mar 2020 9:59 am
7	7	Mar 27 09:34 2020	Mar 27 08:54 2020	26 Mar 2020 10:17 am

RECD6_QUANTPCB_200326.M Fri Mar 27 12:23:02 2020

Response Factor Report HP G1530A

Method Path : T:\METHODS\
Method File : RECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Fri Mar 27 09:36:18 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD6R006.D 2 =ECD6R007.D 3 =ECD6R008.D
4 =ECD6R009.D 5 =ECD6R021.D 6 =ECD6R011.D

		Compound	1	2	3	4	5	6	Avg		%RSD	
1)	S	TCMX (S)	1.784	1.730	1.780	1.860	1.654	1.927	1.798	E5	5.03	✓
2)		Aroclor 1016 ...	6.497	5.617	5.453	5.369	4.824	4.685	5.272	E3	13.10	✓
3)		Aroclor 1016 ...	9.212	8.510	8.754	8.378	8.370	8.135	8.489	E3	4.63	✓
4)		Aroclor 1016 ...	4.473	4.132	4.036	4.057	3.722	3.715	3.981	E3	7.05	✓
5)		Aroclor 1016 ...	5.524	4.813	4.624	4.319	4.108	3.926	4.454	E3	13.17	✓
6)		Aroclor 1016 ...	5.787	5.202	4.891	4.797	4.417	4.353	4.818	E3	11.23	✓
7)		Aroclor 1016 (6)	5.592	5.010	4.847	4.716	4.465	4.291	4.730	E3	10.17	✓
8)		Aroclor 1016 ...							0.000		-1.00	
9)		Aroclor 1221 (1)					1.397		1.397	E3	0.00	
10)		Aroclor 1221 (2)					1.308		1.308	E3	0.00	
11)		Aroclor 1221 (3)					4.226		4.226	E3	0.00	
12)		Aroclor 1221 ...							0.000		-1.00	
13)		Aroclor 1232 (1)					3.473		3.473	E3	0.00	
14)		Aroclor 1232 (2)					2.065		2.065	E3	0.00	
15)		Aroclor 1232 (3)					3.343		3.343	E3	0.00	
16)		Aroclor 1232 (4)					1.435		1.435	E3	0.00	
17)		Aroclor 1232 (5)					1.657		1.657	E3	0.00	
18)		Aroclor 1232 (6)					1.674		1.674	E3	0.00	
19)		Aroclor 1232 ...							0.000		-1.00	
20)		Aroclor 1242 ...					3.704		3.704	E3	0.00	
21)		Aroclor 1242 ...					6.251		6.251	E3	0.00	
22)		Aroclor 1242 ...					2.989		2.989	E3	0.00	
23)		Aroclor 1242 ...					3.016		3.016	E3	0.00	
24)		Aroclor 1242 ...					3.370		3.370	E3	0.00	
25)		Aroclor 1242 (6)					3.505		3.505	E3	0.00	
26)		Aroclor 1242 ...							0.000		-1.00	
27)		Aroclor 1248 ...					3.918		3.918	E3	0.00	
28)		Aroclor 1248 ...					5.202		5.202	E3	0.00	
29)		Aroclor 1248 ...					4.758		4.758	E3	0.00	
30)		Aroclor 1248 ...					5.702		5.702	E3	0.00	
31)		Aroclor 1248 ...					6.884		6.884	E3	0.00	
32)		Aroclor 1248 (6)					5.900		5.900	E3	0.00	
33)		Aroclor 1248 ...							0.000		-1.00	
34)		Aroclor 1254 ...					7.595		7.595	E3	0.00	
35)		Aroclor 1254 ...					1.104		1.104	E4	0.00	
36)		Aroclor 1254 ...					1.218		1.218	E4	0.00	
37)		Aroclor 1254 ...					8.304		8.304	E3	0.00	
38)		Aroclor 1254 ...					8.980		8.980	E3	0.00	
39)		Aroclor 1254 (6)					2.544		2.544	E3	0.00	
40)		Aroclor 1254 ...							0.000		-1.00	
41)		Aroclor 1260 ...	1.053	0.952	0.930	0.902	0.887	0.880	0.925	E4	6.83	✓
42)		Aroclor 1260 ...	1.220	1.137	1.082	1.069	1.070	1.059	1.099	E4	5.51	✓
43)		Aroclor 1260 (3)	1.180	1.123	1.124	1.087	1.099	1.079	1.110	E4	3.29	✓
44)		Aroclor 1260 (4)	1.629	1.547	1.517	1.580	1.567	1.592	1.576	E4	2.31	✓
45)		Aroclor 1260 (5)	1.034	0.948	0.919	0.917	0.880	0.892	0.927	E4	5.60	✓
46)		Aroclor 1260 (6)	4.219	3.843	3.660	3.572	3.350	3.405	3.629	E3	8.73	✓
47)		Aroclor 1260 ...							0.000		-1.00	
48)		Aroclor 1262 (1)					8.448		8.448	E3	0.00	
49)		Aroclor 1262 (2)					1.147		1.147	E4	0.00	
50)		Aroclor 1262 (3)					8.780		8.780	E3	0.00	
51)		Aroclor 1262 (4)					1.781		1.781	E4	0.00	
52)		Aroclor 1262 (5)					1.071		1.071	E4	0.00	
53)		Aroclor 1262 (6)					4.784		4.784	E3	0.00	
54)		Aroclor 1262 ...							0.000		-1.00	
55)		Aroclor 1268 (1)					4.907		4.907	E3	0.00	
56)		Aroclor 1268 (2)					2.009		2.009	E4	0.00	
57)		Aroclor 1268 (3)					1.625		1.625	E4	0.00	
58)		Aroclor 1268 (4)					1.399		1.399	E4	0.00	
59)		Aroclor 1268 (5)					5.313		5.313	E3	0.00	
60)		Aroclor 1268 (6)					3.652		3.652	E4	0.00	

Response Factor Report HP G1530A

Method Path : T:\METHODS\
Method File : RECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Fri Mar 27 09:36:18 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD6R006.D 2 =ECD6R007.D 3 =ECD6R008.D
4 =ECD6R009.D 5 =ECD6R021.D 6 =ECD6R011.D

		Compound	1	2	3	4	5	6	Avg	%RSD
61)		Aroclor 1268 ...							0.000	-1.00
62)	S	DCBP (S)	7.740	7.380	7.725	7.816	7.240	8.172	7.805 E4	5.78

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

Compound List Report HP G1530A

Method Path : T:\METHODS\
Method File : RECD6_QUANTPCB_200326.M
Title : PCB Data Analysis
Last Update : Fri Mar 27 09:36:18 2020
Response Via : Initial Calibration

3/27/20

Total Cpnds : 62

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	6.046	1.000	A	H	L
2		Aroclor 1016 (1)	6.718	1.000	A	H	R
3		Aroclor 1016 (2)	7.211	1.000	A	H	R
4		Aroclor 1016 (3)	7.341	1.000	A	H	R
5		Aroclor 1016 (4)	7.425	1.000	A	H	R
6		Aroclor 1016 (5)	7.472	1.000	A	H	R
7		Aroclor 1016 (6)	7.599	1.000	A	H	R
8		Aroclor 1016 - AVE	3.048	1.000	A	H	R
9		Aroclor 1221 (1)	6.221	1.000	A	H	R
10		Aroclor 1221 (2)	6.294	1.000	A	H	R
11		Aroclor 1221 (3)	6.381	1.000	A	H	R
12		Aroclor 1221 - AVE	3.048	1.000	A	H	R
13		Aroclor 1232 (1)	6.382	1.000	A	H	R
14		Aroclor 1232 (2)	6.719	1.000	A	H	R
15		Aroclor 1232 (3)	7.212	1.000	A	H	R
16		Aroclor 1232 (4)	7.425	1.000	A	H	R
17		Aroclor 1232 (5)	7.472	1.000	A	H	R
18		Aroclor 1232 (6)	7.599	1.000	A	H	R
19		Aroclor 1232 - AVE	3.048	1.000	A	H	R
20		Aroclor 1242 (1)	6.720	1.000	A	H	R
21		Aroclor 1242 (2)	7.212	1.000	A	H	R
22		Aroclor 1242 (3)	7.343	1.000	A	H	R
23		Aroclor 1242 (4)	7.426	1.000	A	H	R
24		Aroclor 1242 (5)	7.473	1.000	A	H	R
25		Aroclor 1242 (6)	7.601	1.000	A	H	R
26		Aroclor 1242 - AVE	3.048	1.000	A	H	R
27		Aroclor 1248 (1)	7.185	1.000	A	H	R
28		Aroclor 1248 (2)	7.426	1.000	A	H	R
29		Aroclor 1248 (3)	7.473	1.000	A	H	R
30		Aroclor 1248 (4)	7.601	1.000	A	H	R
31		Aroclor 1248 (5)	7.968	1.000	A	H	R
32		Aroclor 1248 (6)	8.129	1.000	A	H	R
33		Aroclor 1248 - AVE	3.048	1.000	A	H	R
34		Aroclor 1254 (1)	7.945	1.000	A	H	R
35		Aroclor 1254 (2)	8.127	1.000	A	H	R
36		Aroclor 1254 (3)	8.443	1.000	A	H	R
37		Aroclor 1254 (4)	8.683	1.000	A	H	R
38		Aroclor 1254 (5)	9.023	1.000	A	H	R
39		Aroclor 1254 (6)	9.278	1.000	A	H	R
40		Aroclor 1254 - AVE	3.048	1.000	A	H	R
41		Aroclor 1260 (1)	8.578	1.000	A	H	R
42		Aroclor 1260 (2)	8.784	1.000	A	H	R
43		Aroclor 1260 (3)	9.023	1.000	A	H	R
44		Aroclor 1260 (4)	9.569	1.000	A	H	R
45		Aroclor 1260 (5)	9.877	1.000	A	H	R
46		Aroclor 1260 (6)	10.555	1.000	A	H	R
47		Aroclor 1260 - AVE	3.048	1.000	A	H	R
48		Aroclor 1262 (1)	8.784	1.000	A	H	R
49		Aroclor 1262 (2)	9.094	1.000	A	H	R
50		Aroclor 1262 (3)	9.294	1.000	A	H	R
51		Aroclor 1262 (4)	9.569	1.000	A	H	R
52		Aroclor 1262 (5)	9.876	1.000	A	H	R
53		Aroclor 1262 (6)	10.555	1.000	A	H	R
54		Aroclor 1262 - AVE	3.048	1.000	A	H	R
55		Aroclor 1268 (1)	9.340	1.000	A	H	R
56		Aroclor 1268 (2)	9.877	1.000	A	H	R

57		Aroclor 1268 (3)	9.956	1.000	A	H	R
58		Aroclor 1268 (4)	10.211	1.000	A	H	R
59		Aroclor 1268 (5)	10.556	1.000	A	H	R
60		Aroclor 1268 (6)	10.983	1.000	A	H	R
61		Aroclor 1268 - AVE	3.048	1.000	A	H	R
62	S	DCBP (S)	11.365	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

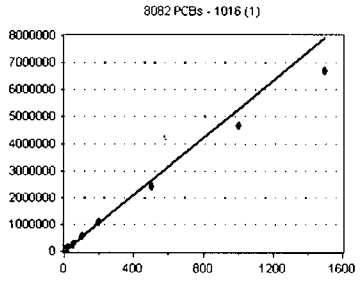
RECD6_QUANTPCB_200326.M Fri Mar 27 12:22:51 2020

Element Calibration Review Sheet

Calibration ID: **A0C2703** Instrument: **DUALECD6R** Calibration Date: **03/27/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD6_QUANTPCB_20032**

1016 (1)

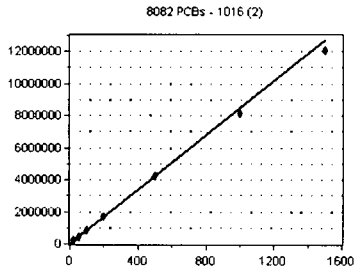


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	129934	6496.700	6.72
0C26028-CAL2	50	280841	5616.820	6.72
0C26028-CAL3	100	545267	5452.670	6.72
0C26028-CAL4	200	1073793	5368.965	6.72
0C26028-CAL5	500	2412248	4824.496	6.72
0C26028-CAL6	1000	4684538	4684.538	6.72
0C26028-CAL7	1500	6694417	4462.945	6.72

AVE RF **5272.448** RF RSD **13.10** AVE RT **6.72**

1016 (2)

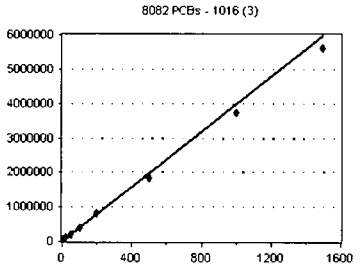


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	184239	9211.950	7.21
0C26028-CAL2	50	425522	8510.440	7.21
0C26028-CAL3	100	875417	8754.170	7.21
0C26028-CAL4	200	1675564	8377.820	7.21
0C26028-CAL5	500	4184879	8369.758	7.21
0C26028-CAL6	1000	8134966	8134.966	7.21
0C26028-CAL7	1500	209424E+07	8062.827	7.21

AVE RF **8488.847** RF RSD **4.63** AVE RT **7.21**

1016 (3)

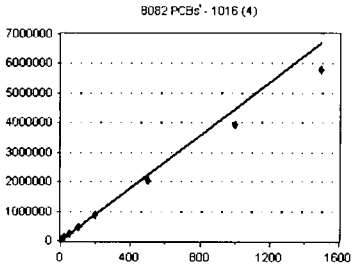


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	89462	4473.100	7.34
0C26028-CAL2	50	206620	4132.400	7.34
0C26028-CAL3	100	403604	4036.040	7.34
0C26028-CAL4	200	811374	4056.870	7.34
0C26028-CAL5	500	1860769	3721.538	7.34
0C26028-CAL6	1000	3715053	3715.053	7.34
0C26028-CAL7	1500	5599877	3733.251	7.34

AVE RF **3981.179** RF RSD **7.05** AVE RT **7.34**

1016 (4)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	110474	5523.700	7.43
0C26028-CAL2	50	240658	4813.160	7.43
0C26028-CAL3	100	462428	4624.280	7.43
0C26028-CAL4	200	863725	4318.625	7.43
0C26028-CAL5	500	2054194	4108.388	7.43
0C26028-CAL6	1000	3926225	3926.225	7.43
0C26028-CAL7	1500	5799432	3866.288	7.43

AVE RF **4454.381** RF RSD **13.17** AVE RT **7.43**

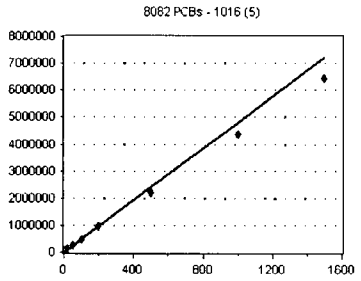
Element Calibration Review Sheet

Calibration ID: **A0C2703** Instrument: **DUALECD6R** Calibration Date: **03/27/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD6_QUANTPCB_20032**

1016 (5)

Curve Fit: **AVERAGE RF**

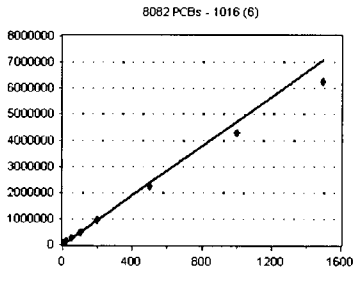


Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	115737	5786.850	7.47
0C26028-CAL2	50	260088	5201.760	7.47
0C26028-CAL3	100	489098	4890.980	7.47
0C26028-CAL4	200	959370	4796.850	7.47
0C26028-CAL5	500	2208429	4416.858	7.47
0C26028-CAL6	1000	4353008	4353.008	7.47
0C26028-CAL7	1500	6422322	4281.548	7.47

AVE RF **4818.265** RF RSD **11.23** AVE RT **7.47**

1016 (6)

Curve Fit: **AVERAGE RF**

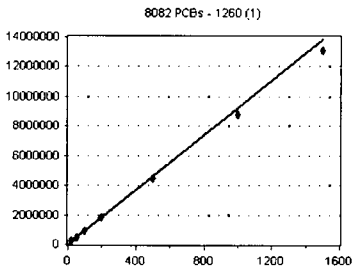


Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	111844	5592.200	7.60
0C26028-CAL2	50	250487	5009.740	7.60
0C26028-CAL3	100	484655	4846.550	7.60
0C26028-CAL4	200	943112	4715.560	7.60
0C26028-CAL5	500	2232359	4464.718	7.60
0C26028-CAL6	1000	4291383	4291.383	7.60
0C26028-CAL7	1500	6288012	4192.008	7.60

AVE RF **4730.308** RF RSD **10.17** AVE RT **7.60**

1260 (1)

Curve Fit: **AVERAGE RF**

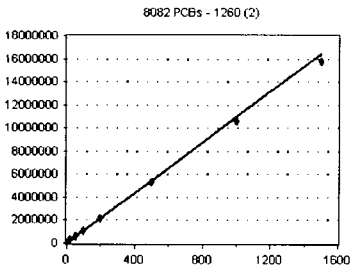


Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	210656	10532.800	8.58
0C26028-CAL2	50	476118	9522.360	8.58
0C26028-CAL3	100	930309	9303.090	8.58
0C26028-CAL4	200	1804678	9023.390	8.58
0C26028-CAL5	500	4433137	8866.274	8.58
0C26028-CAL6	1000	8800369	8800.369	8.58
0C26028-CAL7	1500	309118E+07	8727.453	8.58

AVE RF **9253.677** RF RSD **6.83** AVE RT **8.58**

1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	244022	12201.100	8.79
0C26028-CAL2	50	568739	11374.780	8.79
0C26028-CAL3	100	1081904	10819.040	8.78
0C26028-CAL4	200	2138737	10693.680	8.78
0C26028-CAL5	500	5348705	10697.410	8.78
0C26028-CAL6	1000	058627E+07	10586.270	8.78
0C26028-CAL7	1500	578842E+07	10525.610	8.78

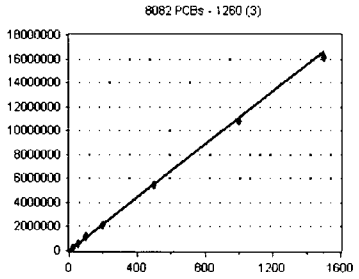
AVE RF **10985.410** RF RSD **5.51** AVE RT **8.78**

Element Calibration Review Sheet

Calibration ID: **A0C2703** Instrument: **DUALECD6R** Calibration Date: **03/27/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD6_QUANTPCB_20032**

1260 (3)

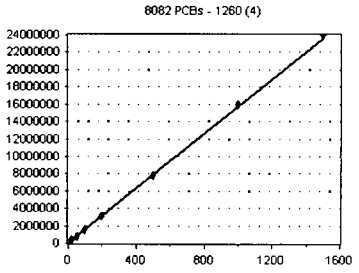


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	235904	11795.200	9.03
0C26028-CAL2	50	561591	11231.820	9.02
0C26028-CAL3	100	1123973	11239.730	9.02
0C26028-CAL4	200	2173084	10865.420	9.02
0C26028-CAL5	500	5493009	10986.020	9.02
0C26028-CAL6	1000	079298E+07	10792.980	9.02
0C26028-CAL7	1500	613288E+07	10755.250	9.02

AVE RF **11095.200** RF RSD **3.29** AVE RT **9.02**

1260 (4)

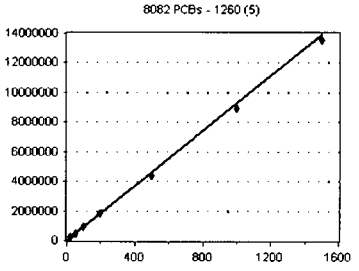


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	325773	16288.650	9.57
0C26028-CAL2	50	773361	15467.220	9.57
0C26028-CAL3	100	1517057	15170.570	9.57
0C26028-CAL4	200	3159555	15797.780	9.57
0C26028-CAL5	500	7835995	15671.990	9.57
0C26028-CAL6	1000	591829E+07	15918.290	9.57
0C26028-CAL7	1500	396796E+07	15978.640	9.57

AVE RF **15756.160** RF RSD **2.31** AVE RT **9.57**

1260 (5)

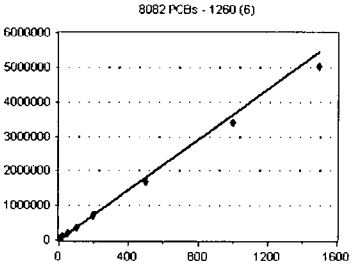


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	206818	10340.900	9.88
0C26028-CAL2	50	474169	9483.380	9.88
0C26028-CAL3	100	918774	9187.740	9.88
0C26028-CAL4	200	1834249	9171.245	9.88
0C26028-CAL5	500	4398859	8797.718	9.88
0C26028-CAL6	1000	8918793	8918.793	9.88
0C26028-CAL7	1500	353054E+07	9020.360	9.88

AVE RF **9274.305** RF RSD **5.60** AVE RT **9.88**

1260 (6)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	20	84385	4219.250	10.56
0C26028-CAL2	50	192129	3842.580	10.56
0C26028-CAL3	100	366025	3660.250	10.56
0C26028-CAL4	200	714372	3571.860	10.56
0C26028-CAL5	500	1674834	3349.668	10.56
0C26028-CAL6	1000	3405025	3405.025	10.55
0C26028-CAL7	1500	5032438	3354.959	10.55

AVE RF **3629.085** RF RSD **8.72** AVE RT **10.56**

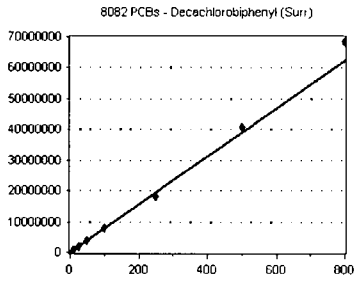
Element Calibration Review Sheet

Calibration ID: **A0C2703** Instrument: **DUALECD6R** Calibration Date: **03/27/2020**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD6_QUANTPCB_20032**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0C26028-CAL1	10	773987	77398.700	11.37
0C26028-CAL2	25	1845059	73802.360	11.37
0C26028-CAL3	50	3862290	77245.800	11.36
0C26028-CAL4	100	7816417	78164.170	11.36
0C26028-CAL5	250	809958E+07	72398.320	11.37
0C26028-CAL6	500	086027E+07	81720.550	11.37
0C26028-CAL7	800	6.85217E+07	85652.120	11.37

AVE RF **78054.570** RF RSD **5.78** AVE RT **11.37**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

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) (Diss)
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
0C26028-ICB1	Initial Cal Blank	Soil	A20C404		3/26/2020 8:13:00AM
0C26028-CAL1	Cal Standard	Soil	A19L280	"	3/26/2020 8:31:00AM
0C26028-CAL2	Cal Standard	Soil	A19L281	"	3/26/2020 8:49:00AM
0C26028-CAL3	Cal Standard	Soil	A19L282	"	3/26/2020 9:06:00AM
0C26028-CAL4	Cal Standard	Soil	A19L283	"	3/26/2020 9:24:00AM
0C26028-CAL5	Cal Standard	Soil	A19L276	"	3/26/2020 9:42:00AM
0C26028-CAL6	Cal Standard	Soil	A19L278	"	3/26/2020 9:59:00AM
0C26028-CAL7	Cal Standard	Soil	A19L279	"	3/26/2020 10:17:00AM
0C26028-ICV1	Initial Cal Check	Soil	A20B355	"	3/26/2020 3:53:00PM
0C26028-CAL8	Cal Standard	Soil	A20C117	"	3/26/2020 4:11:00PM
0C26028-CAL9	Cal Standard	Soil	A20B322	"	3/26/2020 4:29:00PM
0C26028-CALA	Cal Standard	Soil	A20B323	"	3/26/2020 4:46:00PM
0C26028-CALB	Cal Standard	Soil	A20B324	"	3/26/2020 5:04:00PM
0C26028-CALC	Cal Standard	Soil	A20B325	"	3/26/2020 5:22:00PM
0C26028-CALD	Cal Standard	Soil	A20B326	"	3/26/2020 5:39:00PM
0C26028-CALE	Cal Standard	Soil	A20B327	"	3/26/2020 5:57:00PM
0C26028-ICV2	Initial Cal Check	Soil	A20B353	"	3/26/2020 6:15:00PM
0C26028-ICV3	Initial Cal Check	Soil	A19J367	"	3/26/2020 6:33:00PM
0C26028-ICV4	Initial Cal Check	Soil	A20B354	"	3/26/2020 6:50:00PM
0C26028-ICV5	Initial Cal Check	Soil	A20B130	"	3/26/2020 7:08:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0C2703** Instrument: **DUALECD6R**

1311/8082 TCLP PCBs Sequence: **0C26028** Matrix: **Soil**

0C26028-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	

0C26028-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	40.0000	0.00	50.0	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

Aroclor 1260	40.0000	0.00	50.0	0
Aroclor 1016	0.0000	0.00	50.0	0
Aroclor 1260	0.0000	0.00	50.0	0
Aroclor 1016	0.0000	0.00	50.0	0
Aroclor 1260	0.0000	0.00	50.0	0
Aroclor 1016	40.0000	0.00	50.0	0
Aroclor 1260	40.0000	0.00	50.0	0

0C26028-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	40.0000	0.00	100	0	
Aroclor 1260	40.0000	0.00	100	0	
Aroclor 1016	100.0000	0.00	100	0	
Aroclor 1260	100.0000	0.00	100	0	
Aroclor 1016	100.0000	0.00	100	0	
Aroclor 1260	100.0000	0.00	100	0	
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	
Aroclor 1016	40.0000	0.00	100	0	
Aroclor 1260	40.0000	0.00	100	0	

0C26028-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	40.0000	0.00	200	0	
Aroclor 1260	40.0000	0.00	200	0	
Aroclor 1016	100.0000	0.00	200	0	
Aroclor 1260	100.0000	0.00	200	0	
Aroclor 1016	100.0000	0.00	200	0	
Aroclor 1260	100.0000	0.00	200	0	
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	
Aroclor 1016	40.0000	0.00	200	0	
Aroclor 1260	40.0000	0.00	200	0	

0C26028-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	40.0000	0.00	500	0	
Aroclor 1260	40.0000	0.00	500	0	
Aroclor 1016	100.0000	0.00	500	0	
Aroclor 1260	100.0000	0.00	500	0	
Aroclor 1016	100.0000	0.00	500	0	
Aroclor 1260	100.0000	0.00	500	0	
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	
Aroclor 1016	300.0000	0.00	500	0	
Aroclor 1260	300.0000	0.00	500	0	
Aroclor 1016	40.0000	0.00	500	0	
Aroclor 1260	40.0000	0.00	500	0	

0C26028-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	40.0000	0.00	1000	0	
Aroclor 1260	40.0000	0.00	1000	0	
Aroclor 1016	100.0000	0.00	1000	0	
Aroclor 1260	100.0000	0.00	1000	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

Aroclor 1016	100.0000	0.00	1000	0
Aroclor 1260	100.0000	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
Aroclor 1016	300.0000	0.00	1000	0
Aroclor 1260	300.0000	0.00	1000	0
Aroclor 1016	40.0000	0.00	1000	0
Aroclor 1260	40.0000	0.00	1000	0

0C26028-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	40.0000	0.00	1500	0	
Aroclor 1260	40.0000	0.00	1500	0	
Aroclor 1016	100.0000	0.00	1500	0	
Aroclor 1260	100.0000	0.00	1500	0	
Aroclor 1016	100.0000	0.00	1500	0	
Aroclor 1260	100.0000	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	
Aroclor 1016	300.0000	0.00	1500	0	
Aroclor 1260	300.0000	0.00	1500	0	
Aroclor 1016	40.0000	0.00	1500	0	
Aroclor 1260	40.0000	0.00	1500	0	

0C26028-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1221 (1)	40.0000	0.00	500	0	
1221 (2)	40.0000	0.00	500	0	
1221 (3)	40.0000	0.00	500	0	
Aroclor 1221	40.0000	0.00	500	0	
1221 (1)	100.0000	0.00	500	0	
1221 (2)	100.0000	0.00	500	0	
1221 (3)	100.0000	0.00	500	0	
Aroclor 1221	100.0000	0.00	500	0	
1221 (1)	100.0000	0.00	500	0	
1221 (2)	100.0000	0.00	500	0	
1221 (3)	100.0000	0.00	500	0	
Aroclor 1221	100.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	
1221 (1)	300.0000	0.00	500	0	
1221 (2)	300.0000	0.00	500	0	
1221 (3)	300.0000	0.00	500	0	
Aroclor 1221	300.0000	0.00	500	0	
1221 (1)	40.0000	0.00	500	0	
1221 (2)	40.0000	0.00	500	0	
1221 (3)	40.0000	0.00	500	0	
Aroclor 1221	40.0000	0.00	500	0	

0C26028-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1232 (1)	40.0000	0.00	500	0	
1232 (2)	40.0000	0.00	500	0	
1232 (3)	40.0000	0.00	500	0	
1232 (4)	40.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

1232 (5)	40.0000	0.00	500	0
1232 (6)	40.0000	0.00	500	0
Aroclor 1232	40.0000	0.00	500	0
1232 (1)	100.0000	0.00	500	0
1232 (2)	100.0000	0.00	500	0
1232 (3)	100.0000	0.00	500	0
1232 (4)	100.0000	0.00	500	0
1232 (5)	100.0000	0.00	500	0
1232 (6)	100.0000	0.00	500	0
Aroclor 1232	100.0000	0.00	500	0
1232 (1)	100.0000	0.00	500	0
1232 (2)	100.0000	0.00	500	0
1232 (3)	100.0000	0.00	500	0
1232 (4)	100.0000	0.00	500	0
1232 (5)	100.0000	0.00	500	0
1232 (6)	100.0000	0.00	500	0
Aroclor 1232	100.0000	0.00	500	0
Aroclor 1232	0.0000	0.00	500	0
Aroclor 1232	0.0000	0.00	500	0
1232 (1)	300.0000	0.00	500	0
1232 (2)	300.0000	0.00	500	0
1232 (3)	300.0000	0.00	500	0
1232 (4)	300.0000	0.00	500	0
1232 (5)	300.0000	0.00	500	0
1232 (6)	300.0000	0.00	500	0
Aroclor 1232	300.0000	0.00	500	0
1232 (1)	40.0000	0.00	500	0
1232 (2)	40.0000	0.00	500	0
1232 (3)	40.0000	0.00	500	0
1232 (4)	40.0000	0.00	500	0
1232 (5)	40.0000	0.00	500	0
1232 (6)	40.0000	0.00	500	0
Aroclor 1232	40.0000	0.00	500	0

0C26028-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1242 (1)	40.0000	0.00	500	0	
1242 (2)	40.0000	0.00	500	0	
1242 (3)	40.0000	0.00	500	0	
1242 (4)	40.0000	0.00	500	0	
1242 (5)	40.0000	0.00	500	0	
1242 (6)	40.0000	0.00	500	0	
Aroclor 1242	40.0000	0.00	500	0	
1242 (1)	100.0000	0.00	500	0	
1242 (2)	100.0000	0.00	500	0	
1242 (3)	100.0000	0.00	500	0	
1242 (4)	100.0000	0.00	500	0	
1242 (5)	100.0000	0.00	500	0	
1242 (6)	100.0000	0.00	500	0	
Aroclor 1242	100.0000	0.00	500	0	
1242 (1)	100.0000	0.00	500	0	
1242 (2)	100.0000	0.00	500	0	
1242 (3)	100.0000	0.00	500	0	
1242 (4)	100.0000	0.00	500	0	
1242 (5)	100.0000	0.00	500	0	
1242 (6)	100.0000	0.00	500	0	
Aroclor 1242	100.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

Aroclor 1242	0.0000	0.00	500	0
Aroclor 1242	0.0000	0.00	500	0
1242 (1)	300.0000	0.00	500	0
1242 (2)	300.0000	0.00	500	0
1242 (3)	300.0000	0.00	500	0
1242 (4)	300.0000	0.00	500	0
1242 (5)	300.0000	0.00	500	0
1242 (6)	300.0000	0.00	500	0
Aroclor 1242	300.0000	0.00	500	0
1242 (1)	40.0000	0.00	500	0
1242 (2)	40.0000	0.00	500	0
1242 (3)	40.0000	0.00	500	0
1242 (4)	40.0000	0.00	500	0
1242 (5)	40.0000	0.00	500	0
1242 (6)	40.0000	0.00	500	0
Aroclor 1242	40.0000	0.00	500	0

0C26028-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1248 (1)	40.0000	0.00	500	0	
1248 (2)	40.0000	0.00	500	0	
1248 (3)	40.0000	0.00	500	0	
1248 (4)	40.0000	0.00	500	0	
1248 (5)	40.0000	0.00	500	0	
1248 (6)	40.0000	0.00	500	0	
Aroclor 1248	40.0000	0.00	500	0	
1248 (1)	100.0000	0.00	500	0	
1248 (2)	100.0000	0.00	500	0	
1248 (3)	100.0000	0.00	500	0	
1248 (4)	100.0000	0.00	500	0	
1248 (5)	100.0000	0.00	500	0	
1248 (6)	100.0000	0.00	500	0	
Aroclor 1248	100.0000	0.00	500	0	
1248 (1)	100.0000	0.00	500	0	
1248 (2)	100.0000	0.00	500	0	
1248 (3)	100.0000	0.00	500	0	
1248 (4)	100.0000	0.00	500	0	
1248 (5)	100.0000	0.00	500	0	
1248 (6)	100.0000	0.00	500	0	
Aroclor 1248	100.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	
1248 (1)	300.0000	0.00	500	0	
1248 (2)	300.0000	0.00	500	0	
1248 (3)	300.0000	0.00	500	0	
1248 (4)	300.0000	0.00	500	0	
1248 (5)	300.0000	0.00	500	0	
1248 (6)	300.0000	0.00	500	0	
Aroclor 1248	300.0000	0.00	500	0	
1248 (1)	40.0000	0.00	500	0	
1248 (2)	40.0000	0.00	500	0	
1248 (3)	40.0000	0.00	500	0	
1248 (4)	40.0000	0.00	500	0	
1248 (5)	40.0000	0.00	500	0	
1248 (6)	40.0000	0.00	500	0	
Aroclor 1248	40.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

0C26028-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1254 (1)	40.0000	0.00	500	0	
1254 (2)	40.0000	0.00	500	0	
1254 (3)	40.0000	0.00	500	0	
1254 (4)	40.0000	0.00	500	0	
1254 (5)	40.0000	0.00	500	0	
1254 (6)	40.0000	0.00	500	0	
Aroclor 1254	40.0000	0.00	500	0	
1254 (1)	100.0000	0.00	500	0	
1254 (2)	100.0000	0.00	500	0	
1254 (3)	100.0000	0.00	500	0	
1254 (4)	100.0000	0.00	500	0	
1254 (5)	100.0000	0.00	500	0	
1254 (6)	100.0000	0.00	500	0	
Aroclor 1254	100.0000	0.00	500	0	
1254 (1)	100.0000	0.00	500	0	
1254 (2)	100.0000	0.00	500	0	
1254 (3)	100.0000	0.00	500	0	
1254 (4)	100.0000	0.00	500	0	
1254 (5)	100.0000	0.00	500	0	
1254 (6)	100.0000	0.00	500	0	
Aroclor 1254	100.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	
1254 (1)	300.0000	0.00	500	0	
1254 (2)	300.0000	0.00	500	0	
1254 (3)	300.0000	0.00	500	0	
1254 (4)	300.0000	0.00	500	0	
1254 (5)	300.0000	0.00	500	0	
1254 (6)	300.0000	0.00	500	0	
Aroclor 1254	300.0000	0.00	500	0	
1254 (1)	40.0000	0.00	500	0	
1254 (2)	40.0000	0.00	500	0	
1254 (3)	40.0000	0.00	500	0	
1254 (4)	40.0000	0.00	500	0	
1254 (5)	40.0000	0.00	500	0	
1254 (6)	40.0000	0.00	500	0	
Aroclor 1254	40.0000	0.00	500	0	

0C26028-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1262 (1)	40.0000	0.00	500	0	
1262 (2)	40.0000	0.00	500	0	
1262 (3)	40.0000	0.00	500	0	
1262 (4)	40.0000	0.00	500	0	
1262 (5)	40.0000	0.00	500	0	
1262 (6)	40.0000	0.00	500	0	
Aroclor 1262	40.0000	0.00	500	0	
1262 (1)	100.0000	0.00	500	0	
1262 (2)	100.0000	0.00	500	0	
1262 (3)	100.0000	0.00	500	0	
1262 (4)	100.0000	0.00	500	0	
1262 (5)	100.0000	0.00	500	0	
1262 (6)	100.0000	0.00	500	0	
Aroclor 1262	100.0000	0.00	500	0	
1262 (1)	100.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

1262 (2)	100.0000	0.00	500	0
1262 (3)	100.0000	0.00	500	0
1262 (4)	100.0000	0.00	500	0
1262 (5)	100.0000	0.00	500	0
1262 (6)	100.0000	0.00	500	0
Aroclor 1262	100.0000	0.00	500	0
Aroclor 1262	0.0000	0.00	500	0
Aroclor 1262	0.0000	0.00	500	0
1262 (1)	300.0000	0.00	500	0
1262 (2)	300.0000	0.00	500	0
1262 (3)	300.0000	0.00	500	0
1262 (4)	300.0000	0.00	500	0
1262 (5)	300.0000	0.00	500	0
1262 (6)	300.0000	0.00	500	0
Aroclor 1262	300.0000	0.00	500	0
1262 (1)	40.0000	0.00	500	0
1262 (2)	40.0000	0.00	500	0
1262 (3)	40.0000	0.00	500	0
1262 (4)	40.0000	0.00	500	0
1262 (5)	40.0000	0.00	500	0
1262 (6)	40.0000	0.00	500	0
Aroclor 1262	40.0000	0.00	500	0

0C26028-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
1268 (1)	40.0000	0.00	500	0	
1268 (2)	40.0000	0.00	500	0	
1268 (3)	40.0000	0.00	500	0	
1268 (4)	40.0000	0.00	500	0	
1268 (5)	40.0000	0.00	500	0	
1268 (6)	40.0000	0.00	500	0	
Aroclor 1268	40.0000	0.00	500	0	
1268 (1)	100.0000	0.00	500	0	
1268 (2)	100.0000	0.00	500	0	
1268 (3)	100.0000	0.00	500	0	
1268 (4)	100.0000	0.00	500	0	
1268 (5)	100.0000	0.00	500	0	
1268 (6)	100.0000	0.00	500	0	
Aroclor 1268	100.0000	0.00	500	0	
1268 (1)	100.0000	0.00	500	0	
1268 (2)	100.0000	0.00	500	0	
1268 (3)	100.0000	0.00	500	0	
1268 (4)	100.0000	0.00	500	0	
1268 (5)	100.0000	0.00	500	0	
1268 (6)	100.0000	0.00	500	0	
Aroclor 1268	100.0000	0.00	500	0	
Aroclor 1268	0.0000	0.00	500	0	
Aroclor 1268	0.0000	0.00	500	0	
1268 (1)	300.0000	0.00	500	0	
1268 (2)	300.0000	0.00	500	0	
1268 (3)	300.0000	0.00	500	0	
1268 (4)	300.0000	0.00	500	0	
1268 (5)	300.0000	0.00	500	0	
1268 (6)	300.0000	0.00	500	0	
Aroclor 1268	300.0000	0.00	500	0	
1268 (1)	40.0000	0.00	500	0	
1268 (2)	40.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0C26028

1268 (3)	40.0000	0.00	500	0
1268 (4)	40.0000	0.00	500	0
1268 (5)	40.0000	0.00	500	0
1268 (6)	40.0000	0.00	500	0
Aroclor 1268	40.0000	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: **A0C2703** Instrument: **DUALECD6R**

8082 PCBs Sequence: **0C26028** Matrix: **Soil**

0C26028-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
Aroclor 1016	20	500	**0.00**	0	
Aroclor 1260	20	500	**0.00**	0	

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 : S:\DATA\0C26028\
Data File : ECD6R005.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:13 am
Operator : MJB/KAK
Sample : 0C26028-ICB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:47:43 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20
Clean

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.047	15991563	88.965	ng/ml
62) S	DCBP (S)	11.367	6352481	81.385	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.720	1417	0.269	ng/ml
3)	Aroclor 1016 (2)	7.209	1108	0.131	ng/ml
4)	Aroclor 1016 (3)	7.333	807	0.203	ng/ml
5)	Aroclor 1016 (4)	7.441	459	0.103	ng/ml
6)	Aroclor 1016 (5)	7.474	491	0.102	ng/ml
7)	Aroclor 1016 (6)	7.603	621	0.131	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.288f	6922	4.956	ng/ml
10)	Aroclor 1221 (2)	6.288	6922	5.290	ng/ml
11)	Aroclor 1221 (3)	6.357	304475	72.056	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.357	304475	87.658	ng/ml
14)	Aroclor 1232 (2)	6.720	1417	0.686	ng/ml
15)	Aroclor 1232 (3)	7.209	1108	0.331	ng/ml
16)	Aroclor 1232 (4)	7.441	459	0.320	ng/ml
17)	Aroclor 1232 (5)	7.474	491	0.296	ng/ml
18)	Aroclor 1232 (6)	7.603	621	0.371	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.720	1417	0.382	ng/ml
21)	Aroclor 1242 (2)	7.209	1108	0.177	ng/ml
22)	Aroclor 1242 (3)	7.333	807	0.270	ng/ml
23)	Aroclor 1242 (4)	7.441	459	0.152	ng/ml
24)	Aroclor 1242 (5)	7.474	491	0.146	ng/ml
25)	Aroclor 1242 (6)	7.603	621	0.177	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.170	282	0.072	ng/ml
28)	Aroclor 1248 (2)	7.441	459	0.088	ng/ml
29)	Aroclor 1248 (3)	7.474	491	0.103	ng/ml
30)	Aroclor 1248 (4)	7.603	621	0.109	ng/ml
31)	Aroclor 1248 (5)	7.974	1506	0.219	ng/ml
32)	Aroclor 1248 (6)	8.133	1383	0.234	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.949	1737	0.229	ng/ml
35)	Aroclor 1254 (2)	8.133	1383	0.125	ng/ml
36)	Aroclor 1254 (3)	8.441	771	0.063	ng/ml
37)	Aroclor 1254 (4)	8.689	810	0.098	ng/ml
38)	Aroclor 1254 (5)	9.024	1234	0.137	ng/ml
39)	Aroclor 1254 (6)	9.259	639	0.251	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.577	696	0.075	ng/ml
42)	Aroclor 1260 (2)	8.785	1632	0.149	ng/ml
43)	Aroclor 1260 (3)	9.024	1234	0.111	ng/ml
44)	Aroclor 1260 (4)	9.273	2162	0.137	ng/ml

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R005.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:13 am
Operator : MJB/KAK
Sample : 0C26028-ICB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:47:43 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.878	5392	0.581	ng/ml
46)	Aroclor 1260 (6)	10.563	11759	3.240	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.785	1632	0.193	ng/ml
49)	Aroclor 1262 (2)	9.089	769	0.067	ng/ml
50)	Aroclor 1262 (3)	9.259	639	0.073	ng/ml
51)	Aroclor 1262 (4)	9.573	2162	0.121	ng/ml
52)	Aroclor 1262 (5)	9.878	5392	0.504	ng/ml
53)	Aroclor 1262 (6)	10.563	11759	2.458	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.342	5410	1.103	ng/ml
56)	Aroclor 1268 (2)	9.878	5392	0.268	ng/ml
57)	Aroclor 1268 (3)	9.961	4143	0.255	ng/ml
58)	Aroclor 1268 (4)	10.212	144956	10.363	ng/ml
59)	Aroclor 1268 (5)	10.563	11759	2.213	ng/ml
60)	Aroclor 1268 (6)	10.984	271399	7.472	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

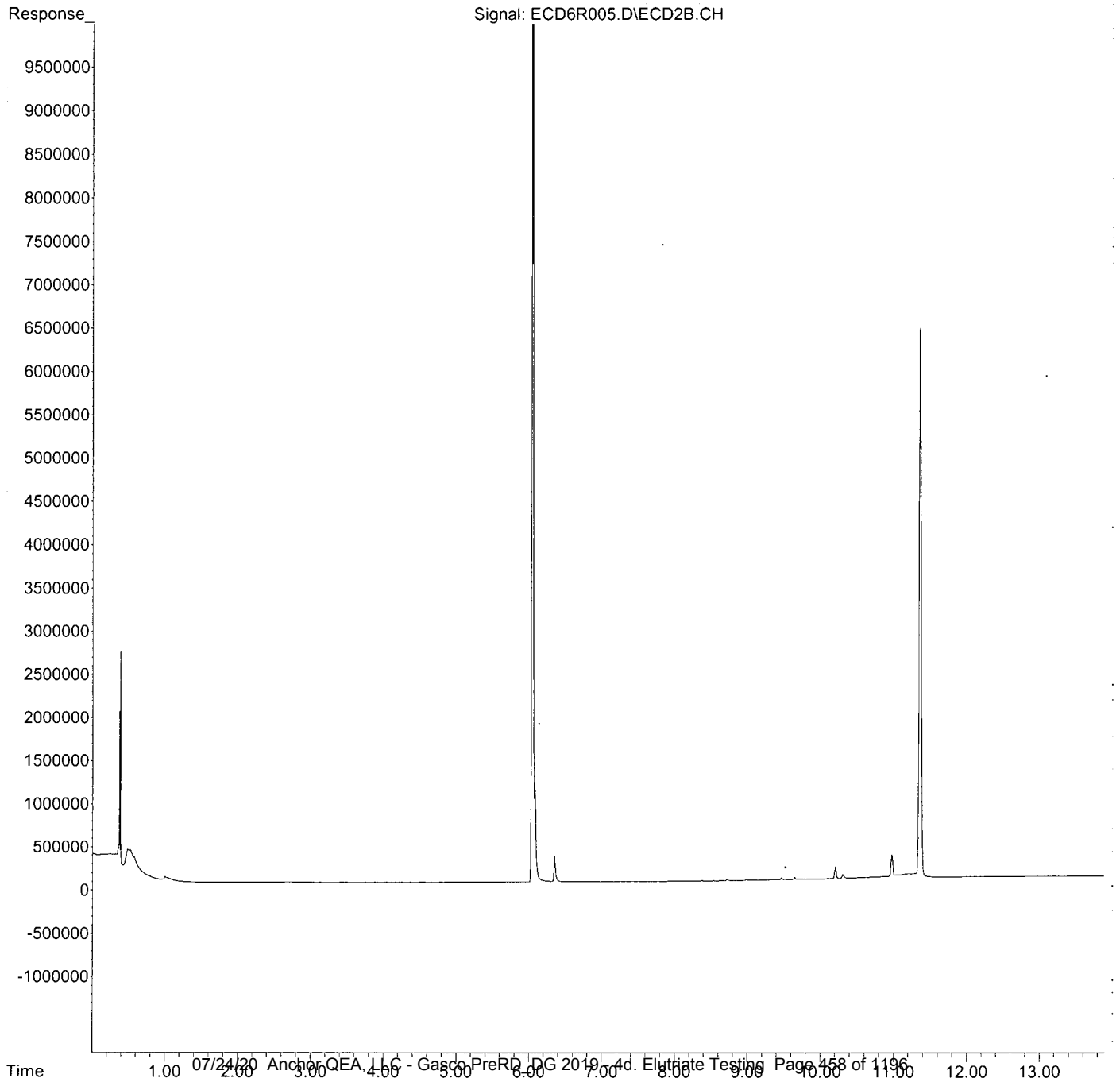
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R005.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:13 am
Operator : MJB/KAK
Sample : 0C26028-ICB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:47:43 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R013.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26028-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:47:53 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.089f	32495	0.181	ng/ml
62)	S DCBP (S)	11.363	35724	0.458	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.710	2265	0.430	ng/ml
3)	Aroclor 1016 (2)	7.198	10592	1.248	ng/ml
4)	Aroclor 1016 (3)	7.355	5535	1.390	ng/ml
5)	Aroclor 1016 (4)	7.433	7827	1.757	ng/ml
6)	Aroclor 1016 (5)	7.479	8994	1.867	ng/ml
7)	Aroclor 1016 (6)	7.606	8435	1.783	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.225	979	0.701	ng/ml
10)	Aroclor 1221 (2)	6.294	1005	0.768	ng/ml
11)	Aroclor 1221 (3)	6.381	1996	0.472	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.381	1996	0.575	ng/ml
14)	Aroclor 1232 (2)	6.710	2265	1.097	ng/ml
15)	Aroclor 1232 (3)	7.198	10592	3.169	ng/ml
16)	Aroclor 1232 (4)	7.433	7827	5.456	ng/ml
17)	Aroclor 1232 (5)	7.479	8994	5.427	ng/ml
18)	Aroclor 1232 (6)	7.606	8435	5.040	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.710	2265	0.611	ng/ml
21)	Aroclor 1242 (2)	7.226	13186	2.109	ng/ml
22)	Aroclor 1242 (3)	7.355	5535	1.852	ng/ml
23)	Aroclor 1242 (4)	7.433	7827	2.595	ng/ml
24)	Aroclor 1242 (5)	7.479	8994	2.669	ng/ml
25)	Aroclor 1242 (6)	7.606	8435	2.406	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.198	10592	2.703	ng/ml
28)	Aroclor 1248 (2)	7.433	7827	1.505	ng/ml
29)	Aroclor 1248 (3)	7.479	8994	1.890	ng/ml
30)	Aroclor 1248 (4)	7.606	8435	1.479	ng/ml
31)	Aroclor 1248 (5)	7.973	2762	0.401	ng/ml
32)	Aroclor 1248 (6)	8.128	7904	1.340	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.948	4896	0.645	ng/ml
35)	Aroclor 1254 (2)	8.128	7904	0.716	ng/ml
36)	Aroclor 1254 (3)	8.444	6924	0.569	ng/ml
37)	Aroclor 1254 (4)	8.686	6118	0.737	ng/ml
38)	Aroclor 1254 (5)	9.024	21212	2.362	ng/ml
39)	Aroclor 1254 (6)	9.293	14428	5.670	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.579	15129	1.635	ng/ml
42)	Aroclor 1260 (2)	8.785	20359	1.853	ng/ml
43)	Aroclor 1260 (3)	9.024	21212	1.912	ng/ml
44)	Aroclor 1260 (4)	9.369	26088	1.856	ng/ml

<< MDL

<< MDL

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R013.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26028-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:47:53 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc Units
45)	Aroclor 1260 (5)	9.877	20810	2.244 ng/ml
46)	Aroclor 1260 (6)	10.555	18634	5.135 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml
48)	Aroclor 1262 (1)	8.785	20359	2.410 ng/ml
49)	Aroclor 1262 (2)	9.094	13420	1.170 ng/ml
50)	Aroclor 1262 (3)	9.293	14428	1.643 ng/ml
51)	Aroclor 1262 (4)	9.569	26088	1.465 ng/ml
52)	Aroclor 1262 (5)	9.877	20810	1.944 ng/ml
53)	Aroclor 1262 (6)	10.555	18634	3.895 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	9.338	7632	1.555 ng/ml
56)	Aroclor 1268 (2)	9.877	20810	1.036 ng/ml
57)	Aroclor 1268 (3)	9.953	15213	0.936 ng/ml
58)	Aroclor 1268 (4)	10.215	14759	1.055 ng/ml
59)	Aroclor 1268 (5)	10.555	18634	3.507 ng/ml
60)	Aroclor 1268 (6)	10.982	18123	0.499 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

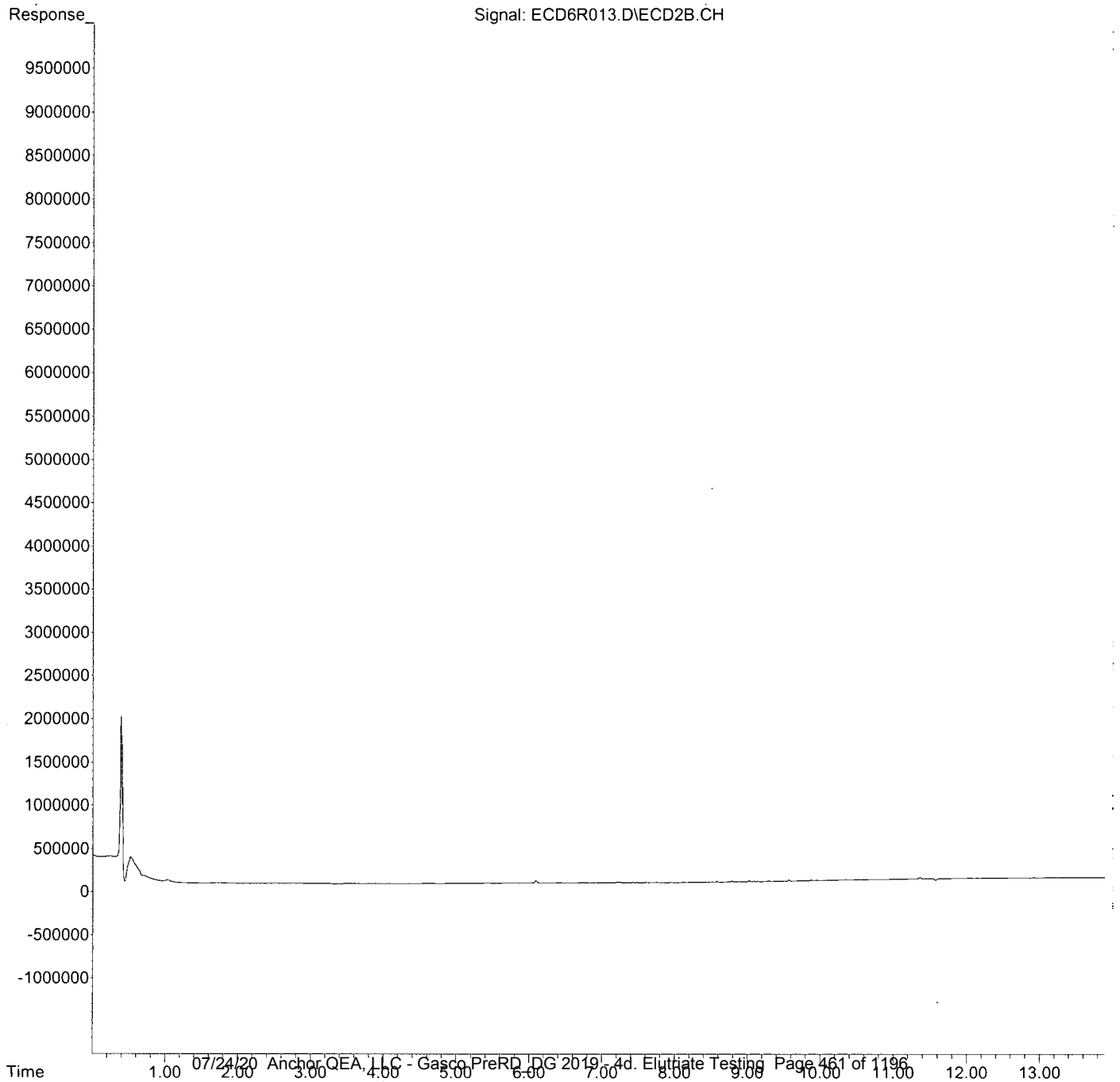
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R013.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:35 am
Operator : MJB/KAK
Sample : 0C26028-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:47:53 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R014.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 3:53 pm
Operator : MJB/KAK
Sample : 0C26028-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:03 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

1016, 1260

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.044	39031642	217.143	ng/ml
62) S	DCBP (S)	11.373	15754863	201.844	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.717	2463487	467.238	ng/ml
3)	Aroclor 1016 (2)	7.211	4424614	521.227	ng/ml
4)	Aroclor 1016 (3)	7.341	1998099	501.886	ng/ml
5)	Aroclor 1016 (4)	7.425	2056547	461.690	ng/ml
6)	Aroclor 1016 (5)	7.472	2304132	478.208	ng/ml
7)	Aroclor 1016 (6)	7.599	2271626	480.228	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.216	181766	130.134	ng/ml
10)	Aroclor 1221 (2)	6.291	333971	255.253	ng/ml
11)	Aroclor 1221 (3)	6.379	1593456	377.100	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.379	1593456	458.752	ng/ml
14)	Aroclor 1232 (2)	6.717	2463487	1192.765	ng/ml
15)	Aroclor 1232 (3)	7.211	4424614	1323.624	ng/ml
16)	Aroclor 1232 (4)	7.425	2056547	1433.553	ng/ml
17)	Aroclor 1232 (5)	7.472	2304132	1390.224	ng/ml
18)	Aroclor 1232 (6)	7.599	2271626	1357.402	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.717	2463487	665.031	ng/ml
21)	Aroclor 1242 (2)	7.211	4424614	707.817	ng/ml
22)	Aroclor 1242 (3)	7.341	1998099	668.566	ng/ml
23)	Aroclor 1242 (4)	7.425	2056547	681.947	ng/ml
24)	Aroclor 1242 (5)	7.472	2304132	683.750	ng/ml
25)	Aroclor 1242 (6)	7.599	2271626	648.023	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.183	3827599	976.928	ng/ml
28)	Aroclor 1248 (2)	7.425	2056547	395.314	ng/ml
29)	Aroclor 1248 (3)	7.472	2304132	484.230	ng/ml
30)	Aroclor 1248 (4)	7.599	2271626	398.414	ng/ml
31)	Aroclor 1248 (5)	7.945	1866114	271.073	ng/ml
32)	Aroclor 1248 (6)	8.127	2069863	350.802	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.945	1866114	245.713	ng/ml
35)	Aroclor 1254 (2)	8.127	2069863	187.569	ng/ml
36)	Aroclor 1254 (3)	8.444	1097823	90.151	ng/ml
37)	Aroclor 1254 (4)	8.686	651047	78.405	ng/ml
38)	Aroclor 1254 (5)	9.025	6369913	709.366	ng/ml
39)	Aroclor 1254 (6)	9.262	648066	254.693	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.579	5053797	546.139	ng/ml
42)	Aroclor 1260 (2)	8.787	6091621	554.519	ng/ml
43)	Aroclor 1260 (3)	9.025	6369913	574.114	ng/ml
44)	Aroclor 1260 (4)	9.272	7656795	485.956	ng/ml

485.080 ✓

503.126 ✓

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R014.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 3:53 pm
Operator : MJB/KAK
Sample : 0C26028-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:03 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.881	4403064	474.759	ng/ml
46)	Aroclor 1260 (6)	10.561	1390919	383.270	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.787	6091621	721.104	ng/ml
49)	Aroclor 1262 (2)	9.096	3520689	306.894	ng/ml
50)	Aroclor 1262 (3)	9.296	3539929	403.163	ng/ml
51)	Aroclor 1262 (4)	9.572	7656793	429.977	ng/ml
52)	Aroclor 1262 (5)	9.881	4403064	411.252	ng/ml
53)	Aroclor 1262 (6)	10.561	1390919	290.745	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.343	240560	49.027	ng/ml
56)	Aroclor 1268 (2)	9.881	4403064	219.137	ng/ml
57)	Aroclor 1268 (3)	9.956	1459416	89.789	ng/ml
58)	Aroclor 1268 (4)	10.216	161563	11.550	ng/ml
59)	Aroclor 1268 (5)	10.561	1390919	261.809	ng/ml
60)	Aroclor 1268 (6)	10.989	463999	12.775	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

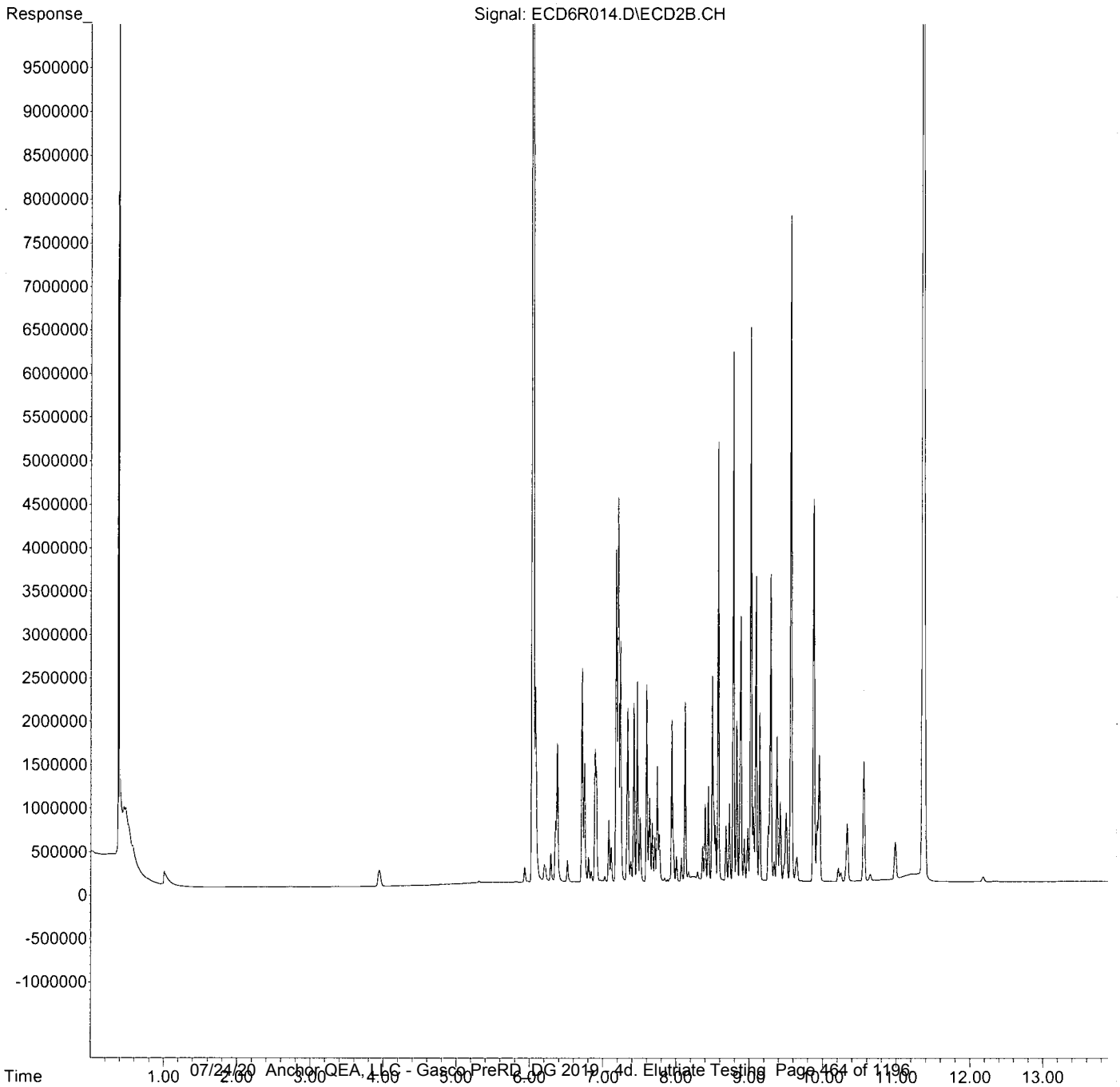
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R014.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 3:53 pm
Operator : MJB/KAK
Sample : 0C26028-ICV1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:03 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R022.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:15 pm
Operator : MJB/KAK
Sample : 0C26028-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

3/27/20

1221, 1254

Integration File: PCB1.e
Quant Time: Mar 27 09:48:12 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	6.046	7227453	40.208	ng/ml	
62)	S DCBP (S)	11.366	6285848	80.531	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	6.718	452772	85.875	ng/ml	
3)	Aroclor 1016 (2)	7.211	665110	78.351	ng/ml	
4)	Aroclor 1016 (3)	7.342	296884	74.572	ng/ml	
5)	Aroclor 1016 (4)	7.425	2402655	539.391	ng/ml	
6)	Aroclor 1016 (5)	7.471	851604	176.745	ng/ml	
7)	Aroclor 1016 (6)	7.600	1422895	300.804	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	6.220	1308323	936.684	ng/ml	953.541
10)	Aroclor 1221 (2)	6.293	1230478	940.453	ng/ml	
11)	Aroclor 1221 (3)	6.381	4155774	983.487	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	6.381	4155774	1196.437	ng/ml	
14)	Aroclor 1232 (2)	6.718	452772	219.222	ng/ml	
15)	Aroclor 1232 (3)	7.211	665110	198.968	ng/ml	
16)	Aroclor 1232 (4)	7.425	2402655	1674.814	ng/ml	
17)	Aroclor 1232 (5)	7.471	851604	513.825	ng/ml	
18)	Aroclor 1232 (6)	7.600	1422895	850.246	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.718	452772	122.228	ng/ml	
21)	Aroclor 1242 (2)	7.211	665110	106.399	ng/ml	
22)	Aroclor 1242 (3)	7.342	296884	99.338	ng/ml	
23)	Aroclor 1242 (4)	7.425	2402655	796.716	ng/ml	
24)	Aroclor 1242 (5)	7.471	851604	252.713	ng/ml	
25)	Aroclor 1242 (6)	7.600	1422895	405.907	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	7.184	579050	147.792	ng/ml	
28)	Aroclor 1248 (2)	7.425	2402655	461.844	ng/ml	
29)	Aroclor 1248 (3)	7.471	851604	178.971	ng/ml	
30)	Aroclor 1248 (4)	7.600	1422895	249.557	ng/ml	
31)	Aroclor 1248 (5)	7.966	2241239	325.563	ng/ml	
32)	Aroclor 1248 (6)	8.127	5848022	991.128	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.945	3925428	516.865	ng/ml	504.373
35)	Aroclor 1254 (2)	8.127	5848022	529.941	ng/ml	
36)	Aroclor 1254 (3)	8.443	5955262	489.032	ng/ml	
37)	Aroclor 1254 (4)	8.683	4179529	503.338	ng/ml	
38)	Aroclor 1254 (5)	9.023	4507607	501.976	ng/ml	
39)	Aroclor 1254 (6)	9.278	1234299	485.087	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	8.578	2310396	249.673	ng/ml	
42)	Aroclor 1260 (2)	8.784	2838320	258.372	ng/ml	
43)	Aroclor 1260 (3)	9.023	4507607	406.266	ng/ml	
44)	Aroclor 1260 (4)	9.269	1036555	44.659	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R022.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:15 pm
Operator : MJB/KAK
Sample : 0C26028-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:12 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.878	521094	56.187	ng/ml
46)	Aroclor 1260 (6)	10.556	44220	12.185	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.784	2838320	335.990	ng/ml
49)	Aroclor 1262 (2)	9.094	285853	24.917	ng/ml
50)	Aroclor 1262 (3)	9.278	1234299	140.574	ng/ml
51)	Aroclor 1262 (4)	9.569	703653	39.515	ng/ml
52)	Aroclor 1262 (5)	9.878	521094	48.671	ng/ml
53)	Aroclor 1262 (6)	10.556	44220	9.243	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.342	34423	7.016	ng/ml
56)	Aroclor 1268 (2)	9.878	521094	25.934	ng/ml
57)	Aroclor 1268 (3)	9.951	52353	3.221	ng/ml
58)	Aroclor 1268 (4)	10.213	44371	3.172	ng/ml
59)	Aroclor 1268 (5)	10.556	44220	8.323	ng/ml
60)	Aroclor 1268 (6)	10.984	71652	1.973	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

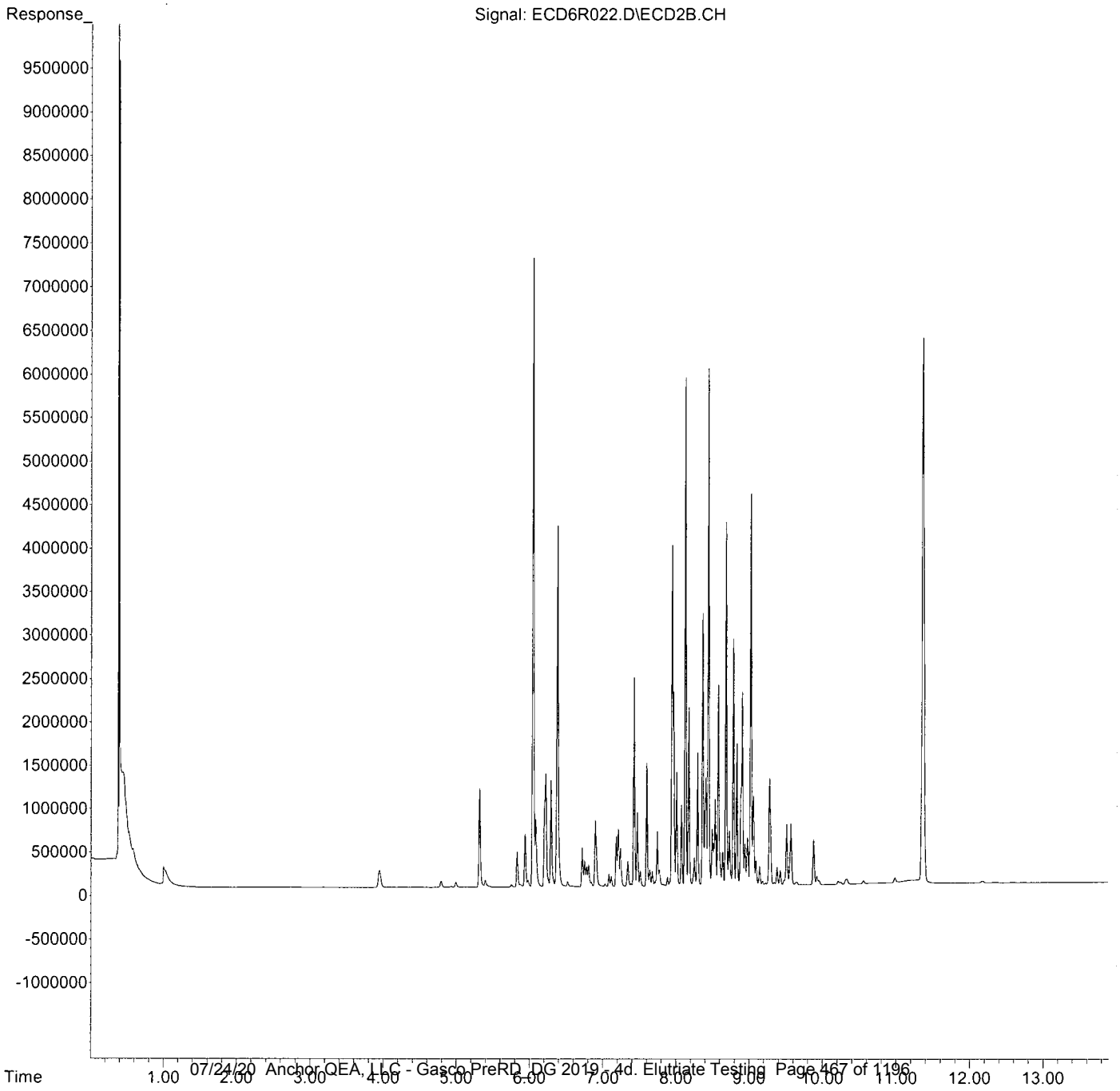
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R022.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:15 pm
Operator : MJB/KAK
Sample : 0C26028-ICV2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:12 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R023.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:33 pm
Operator : MJB/KAK
Sample : 0C26028-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:21 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

1232, 1262

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.043	6848206	38.098	ng/ml
62) S	DCBP (S)	11.362	6593780	84.477	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.716	1067264	202.423	ng/ml
3)	Aroclor 1016 (2)	7.209	1810403	213.268	ng/ml
4)	Aroclor 1016 (3)	7.339	834405	209.588	ng/ml
5)	Aroclor 1016 (4)	7.423	801180	179.863	ng/ml
6)	Aroclor 1016 (5)	7.470	888429	184.388	ng/ml
7)	Aroclor 1016 (6)	7.597	922527	195.025	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.218	414649	296.865	ng/ml
10)	Aroclor 1221 (2)	6.291	456377	348.809	ng/ml
11)	Aroclor 1221 (3)	6.379	1605832	380.029	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.379	1605832	462.315	ng/ml
14)	Aroclor 1232 (2)	6.716	1067264	516.745	ng/ml
15)	Aroclor 1232 (3)	7.209	1810403	541.583	ng/ml
16)	Aroclor 1232 (4)	7.423	801180	558.477	ng/ml
17)	Aroclor 1232 (5)	7.470	888429	536.044	ng/ml
18)	Aroclor 1232 (6)	7.597	922527	551.253	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.716	1067264	288.113	ng/ml
21)	Aroclor 1242 (2)	7.209	1810403	289.615	ng/ml
22)	Aroclor 1242 (3)	7.339	834405	279.193	ng/ml
23)	Aroclor 1242 (4)	7.423	801180	265.670	ng/ml
24)	Aroclor 1242 (5)	7.470	888429	263.641	ng/ml
25)	Aroclor 1242 (6)	7.597	922527	263.168	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.181	1509675	385.318	ng/ml
28)	Aroclor 1248 (2)	7.423	801180	154.004	ng/ml
29)	Aroclor 1248 (3)	7.470	888429	186.710	ng/ml
30)	Aroclor 1248 (4)	7.597	922527	161.799	ng/ml
31)	Aroclor 1248 (5)	7.964	1049564	152.460	ng/ml
32)	Aroclor 1248 (6)	8.125	1314797	222.833	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.945	1085990	142.993	ng/ml
35)	Aroclor 1254 (2)	8.125	1314797	119.145	ng/ml
36)	Aroclor 1254 (3)	8.441	520624	42.752	ng/ml
37)	Aroclor 1254 (4)	8.682	379247	45.672	ng/ml
38)	Aroclor 1254 (5)	9.022	3355589	373.685	ng/ml
39)	Aroclor 1254 (6)	9.291	4232199	1663.279	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.577	3589252	387.873	ng/ml
42)	Aroclor 1260 (2)	8.783	4264296	388.178	ng/ml
43)	Aroclor 1260 (3)	9.022	3355589	302.436	ng/ml
44)	Aroclor 1260 (4)	9.967	8793992	558.130	ng/ml

527.736

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R023.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:33 pm
Operator : MJB/KAK
Sample : 0C26028-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:21 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.875	5374451	579.499	ng/ml
46)	Aroclor 1260 (6)	10.553	2313791	637.568	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.783	4264296	504.792	ng/ml
49)	Aroclor 1262 (2)	9.093	5722889	498.857	ng/ml
50)	Aroclor 1262 (3)	9.291	4232199	482.006	ng/ml
51)	Aroclor 1262 (4)	9.567	8793992	493.838	ng/ml
52)	Aroclor 1262 (5)	9.875	5374451	501.981	ng/ml
53)	Aroclor 1262 (6)	10.553	2313791	483.654	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.337	630246	128.447	ng/ml
56)	Aroclor 1268 (2)	9.875	5374451	267.482	ng/ml
57)	Aroclor 1268 (3)	9.950	2937442	180.723	ng/ml
58)	Aroclor 1268 (4)	10.208	230011	16.443	ng/ml
59)	Aroclor 1268 (5)	10.553	2313791	435.518	ng/ml
60)	Aroclor 1268 (6)	10.978	743409	20.468	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

494.188 ✓

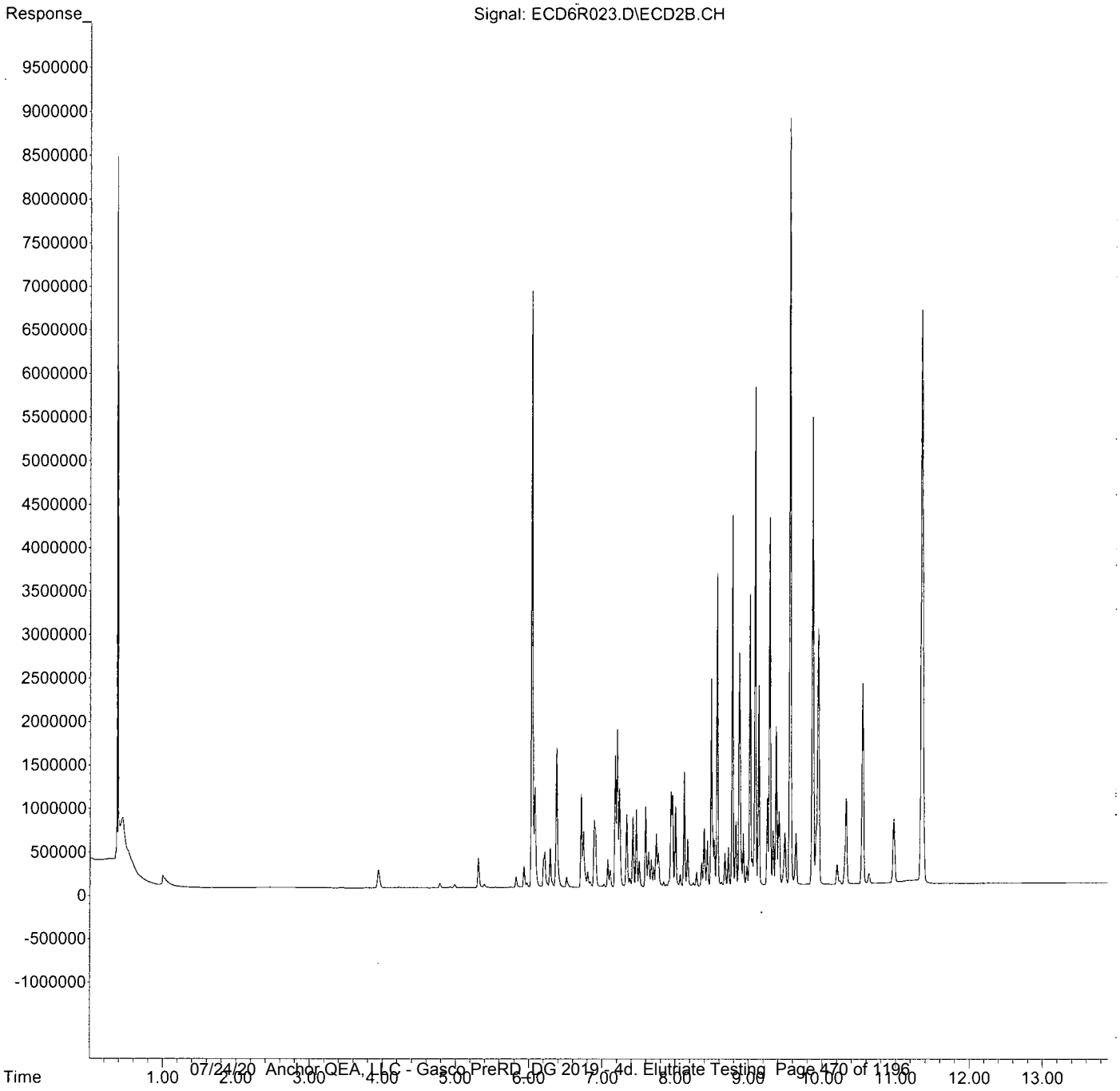
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R023.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:33 pm
Operator : MJB/KAK
Sample : 0C26028-ICV3
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:21 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R024.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:50 pm
Operator : MJB/KAK
Sample : 0C26028-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:29 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

1242, 1268

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.045	6851966	38.119	ng/ml
62)	S DCBP (S)	11.363	3014088	38.615	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.717	1933891	366.792	ng/ml
3)	Aroclor 1016 (2)	7.211	3320686	391.182	ng/ml
4)	Aroclor 1016 (3)	7.340	1528590	383.954	ng/ml
5)	Aroclor 1016 (4)	7.424	1542197	346.220	ng/ml
6)	Aroclor 1016 (5)	7.470	1717995	356.559	ng/ml
7)	Aroclor 1016 (6)	7.599	1775953	375.441	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.204	164241	117.587	ng/ml
10)	Aroclor 1221 (2)	6.292	276312	211.185	ng/ml
11)	Aroclor 1221 (3)	6.380	1218601	288.389	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.380	1218601	350.832	ng/ml
14)	Aroclor 1232 (2)	6.717	1933891	936.347	ng/ml
15)	Aroclor 1232 (3)	7.211	3320686	993.384	ng/ml
16)	Aroclor 1232 (4)	7.424	1542197	1075.016	ng/ml
17)	Aroclor 1232 (5)	7.470	1717995	1036.571	ng/ml
18)	Aroclor 1232 (6)	7.599	1775953	1061.214	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.717	1933891	522.064	ng/ml
21)	Aroclor 1242 (2)	7.211	3320686	531.219	ng/ml
22)	Aroclor 1242 (3)	7.340	1528590	511.468	ng/ml
23)	Aroclor 1242 (4)	7.424	1542197	511.390	ng/ml
24)	Aroclor 1242 (5)	7.470	1717995	509.814	ng/ml
25)	Aroclor 1242 (6)	7.599	1775953	506.623	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.182	2811773	717.656	ng/ml
28)	Aroclor 1248 (2)	7.424	1542197	296.444	ng/ml
29)	Aroclor 1248 (3)	7.470	1717995	361.049	ng/ml
30)	Aroclor 1248 (4)	7.599	1775953	311.479	ng/ml
31)	Aroclor 1248 (5)	7.965	1964109	285.307	ng/ml
32)	Aroclor 1248 (6)	8.127	1449510	245.664	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.965	1964109	258.616	ng/ml
35)	Aroclor 1254 (2)	8.127	1449510	131.353	ng/ml
36)	Aroclor 1254 (3)	8.442	566662	46.533	ng/ml
37)	Aroclor 1254 (4)	8.682	368856	44.421	ng/ml
38)	Aroclor 1254 (5)	9.024	133636	14.882	ng/ml
39)	Aroclor 1254 (6)	9.292	163213	64.144	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.558	107592	11.627	ng/ml
42)	Aroclor 1260 (2)	8.783	112498	10.241	ng/ml
43)	Aroclor 1260 (3)	9.024	133636	12.044	ng/ml
44)	Aroclor 1260 (4)	9.568	1047708	68.495	ng/ml

515.430

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R024.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:50 pm
Operator : MJB/KAK
Sample : 0C26028-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:29 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.875	10192423	1098.996	ng/ml
46)	Aroclor 1260 (6)	10.554	2689709	741.153	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.783	112498	13.317	ng/ml
49)	Aroclor 1262 (2)	9.094	2147378	187.184	ng/ml
50)	Aroclor 1262 (3)	9.292	163213	18.588	ng/ml
51)	Aroclor 1262 (4)	9.568	1047708	58.835	ng/ml
52)	Aroclor 1262 (5)	9.875	10192423	951.985	ng/ml
53)	Aroclor 1262 (6)	10.554	2689709	562.233	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.338	2506527	510.841	ng/ml
56)	Aroclor 1268 (2)	9.875	10192423	507.269	ng/ml
57)	Aroclor 1268 (3)	9.953	8186538	503.667	ng/ml
58)	Aroclor 1268 (4)	10.209	6901447	493.377	ng/ml
59)	Aroclor 1268 (5)	10.554	2689709	506.276	ng/ml
60)	Aroclor 1268 (6)	10.980	17657894	486.169	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

501.267 J

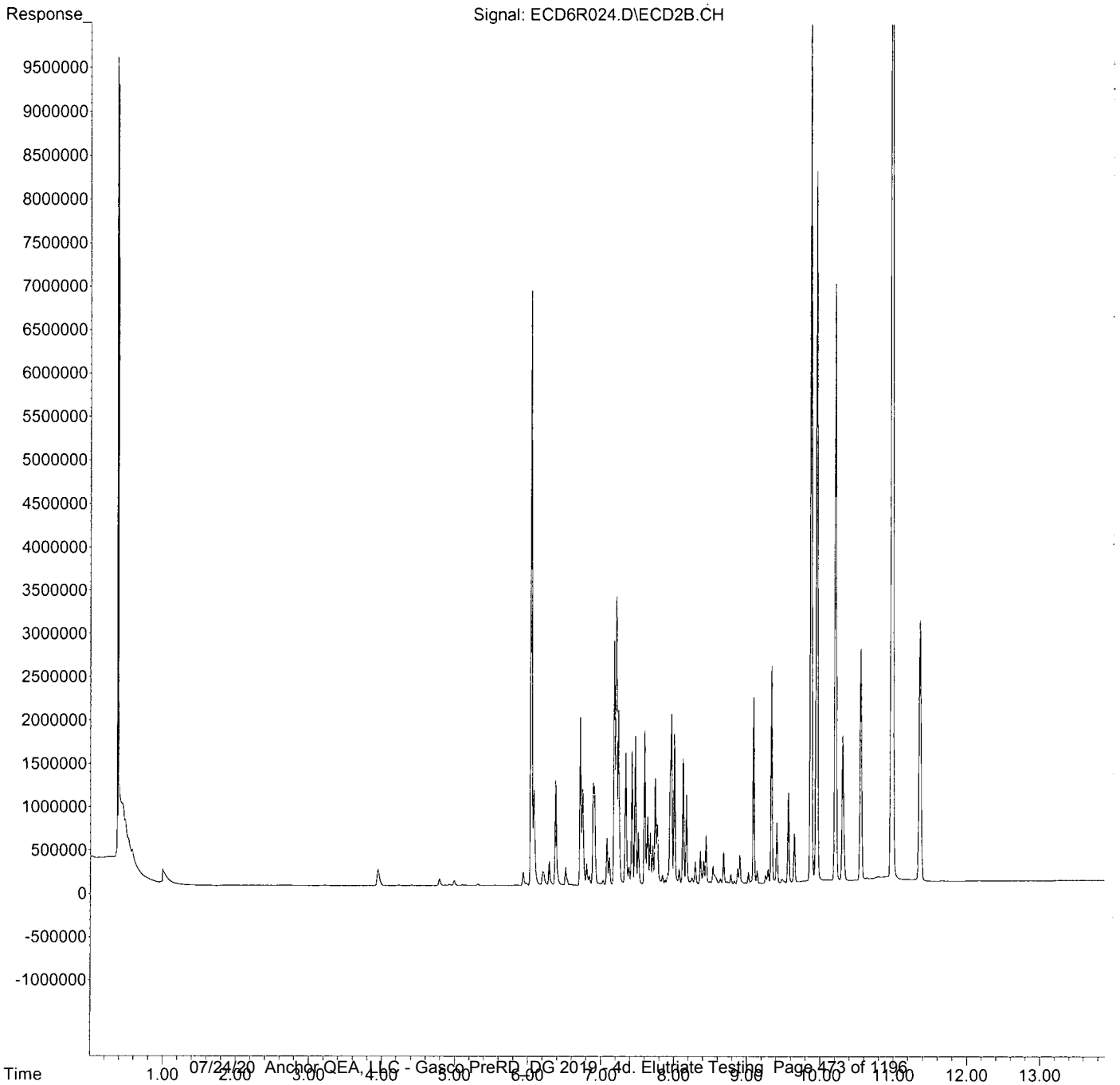
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R024.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 6:50 pm
Operator : MJB/KAK
Sample : 0C26028-ICV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:29 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R025.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 7:08 pm
Operator : MJB/KAK
Sample : 0C26028-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:38 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20
1246

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.086f	11614	0.065	ng/ml
62) S	DCBP (S)	11.365	8323	0.107	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.716	1022689	193.969	ng/ml
3)	Aroclor 1016 (2)	7.209	1871956	220.519	ng/ml
4)	Aroclor 1016 (3)	7.337	938475	235.728	ng/ml
5)	Aroclor 1016 (4)	7.423	2777320	623.502	ng/ml
6)	Aroclor 1016 (5)	7.470	2620381	543.844	ng/ml
7)	Aroclor 1016 (6)	7.598	3068440	648.676	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	6.217	12222	8.750	ng/ml
10)	Aroclor 1221 (2)	6.291	25021	19.123	ng/ml
11)	Aroclor 1221 (3)	6.380	142690	33.768	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.380	142690	41.080	ng/ml
14)	Aroclor 1232 (2)	6.716	1022689	495.163	ng/ml
15)	Aroclor 1232 (3)	7.209	1871956	559.996	ng/ml
16)	Aroclor 1232 (4)	7.423	2777320	1935.981	ng/ml
17)	Aroclor 1232 (5)	7.470	2620381	1581.036	ng/ml
18)	Aroclor 1232 (6)	7.598	3068440	1833.535	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.716	1022689	276.080	ng/ml
21)	Aroclor 1242 (2)	7.209	1871956	299.461	ng/ml
22)	Aroclor 1242 (3)	7.337	938475	314.015	ng/ml
23)	Aroclor 1242 (4)	7.423	2777320	920.954	ng/ml
24)	Aroclor 1242 (5)	7.470	2620381	777.597	ng/ml
25)	Aroclor 1242 (6)	7.598	3068440	875.328	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	7.182	2078464	530.492	ng/ml
28)	Aroclor 1248 (2)	7.423	2777320	533.862	ng/ml
29)	Aroclor 1248 (3)	7.470	2620381	550.692	ng/ml
30)	Aroclor 1248 (4)	7.598	3068440	538.165	ng/ml
31)	Aroclor 1248 (5)	7.965	3931955	571.157	ng/ml
32)	Aroclor 1248 (6)	8.126	3205899	543.339	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.948	2605959	343.129	ng/ml
35)	Aroclor 1254 (2)	8.126	3205899	290.515	ng/ml
36)	Aroclor 1254 (3)	8.441	1831852	150.427	ng/ml
37)	Aroclor 1254 (4)	8.682	1230330	148.168	ng/ml
38)	Aroclor 1254 (5)	9.021	301876	33.617	ng/ml
39)	Aroclor 1254 (6)	9.276	108815	42.765	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.576	223079	24.107	ng/ml
42)	Aroclor 1260 (2)	8.782	270587	24.632	ng/ml
43)	Aroclor 1260 (3)	9.021	301876	27.208	ng/ml
44)	Aroclor 1260 (4)	9.367	57587	5.855	ng/ml

544.618

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R025.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 7:08 pm
Operator : MJB/KAK
Sample : 0C26028-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:38 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.875	42558	4.589	ng/ml
46)	Aroclor 1260 (6)	10.553	13424	3.699	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
48)	Aroclor 1262 (1)	8.782	270587	32.031	ng/ml
49)	Aroclor 1262 (2)	9.093	33614	2.930	ng/ml
50)	Aroclor 1262 (3)	9.276	108815	12.393	ng/ml
51)	Aroclor 1262 (4)	9.567	57587	3.234	ng/ml
52)	Aroclor 1262 (5)	9.875	42558	3.975	ng/ml
53)	Aroclor 1262 (6)	10.553	13424	2.806	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	9.338	6014	1.226	ng/ml
56)	Aroclor 1268 (2)	9.875	42558	2.118	ng/ml
57)	Aroclor 1268 (3)	9.951	15619	0.961	ng/ml
58)	Aroclor 1268 (4)	10.210	4012	0.287	ng/ml
59)	Aroclor 1268 (5)	10.553	13424	2.527	ng/ml
60)	Aroclor 1268 (6)	10.980	12987	0.358	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

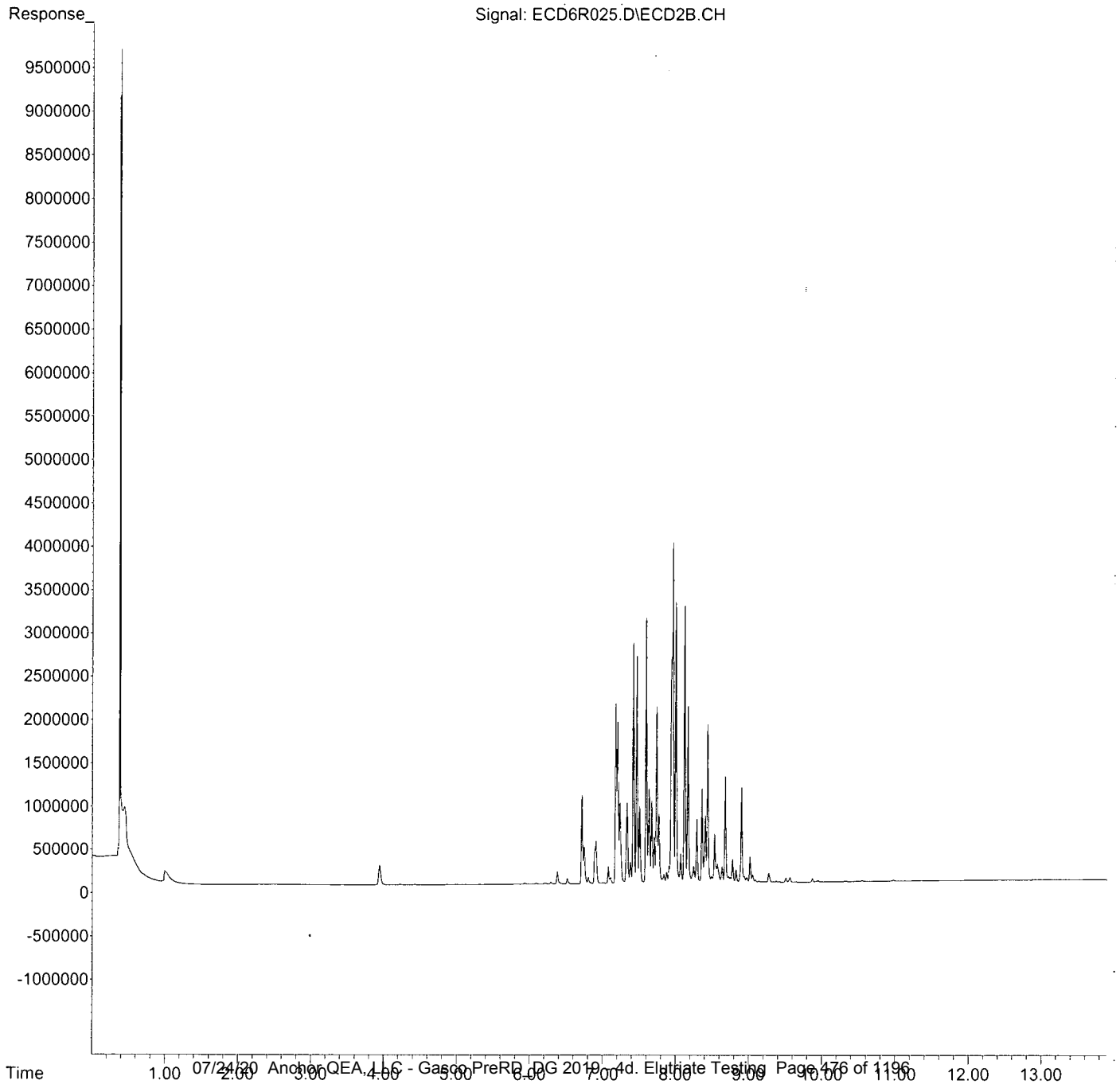
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R025.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 7:08 pm
Operator : MJB/KAK
Sample : 0C26028-ICV5
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:48:38 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26028-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:40:30 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	6.047	1784231	9.926	ng/ml
62)	S	DCBP (S)	11.368	773987	9.916	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.719	129934	24.644	ng/ml
3)		Aroclor 1016 (2)	7.213	184239	21.704	ng/ml
4)		Aroclor 1016 (3)	7.342	89462	22.471	ng/ml
5)		Aroclor 1016 (4)	7.426	110474	24.801	ng/ml
6)		Aroclor 1016 (5)	7.473	115737	24.020	ng/ml
7)		Aroclor 1016 (6)	7.600	111844	23.644	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)	8.579	210656	22.765	ng/ml
42)		Aroclor 1260 (2)	8.785	244022	22.213	ng/ml
43)		Aroclor 1260 (3)	9.025	235904	21.262	ng/ml
44)		Aroclor 1260 (4)	9.370	325775	20.876	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26028-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:40:30 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.879	206818	22.300	ng/ml
46)	Aroclor 1260 (6)	10.557	84385	23.252	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

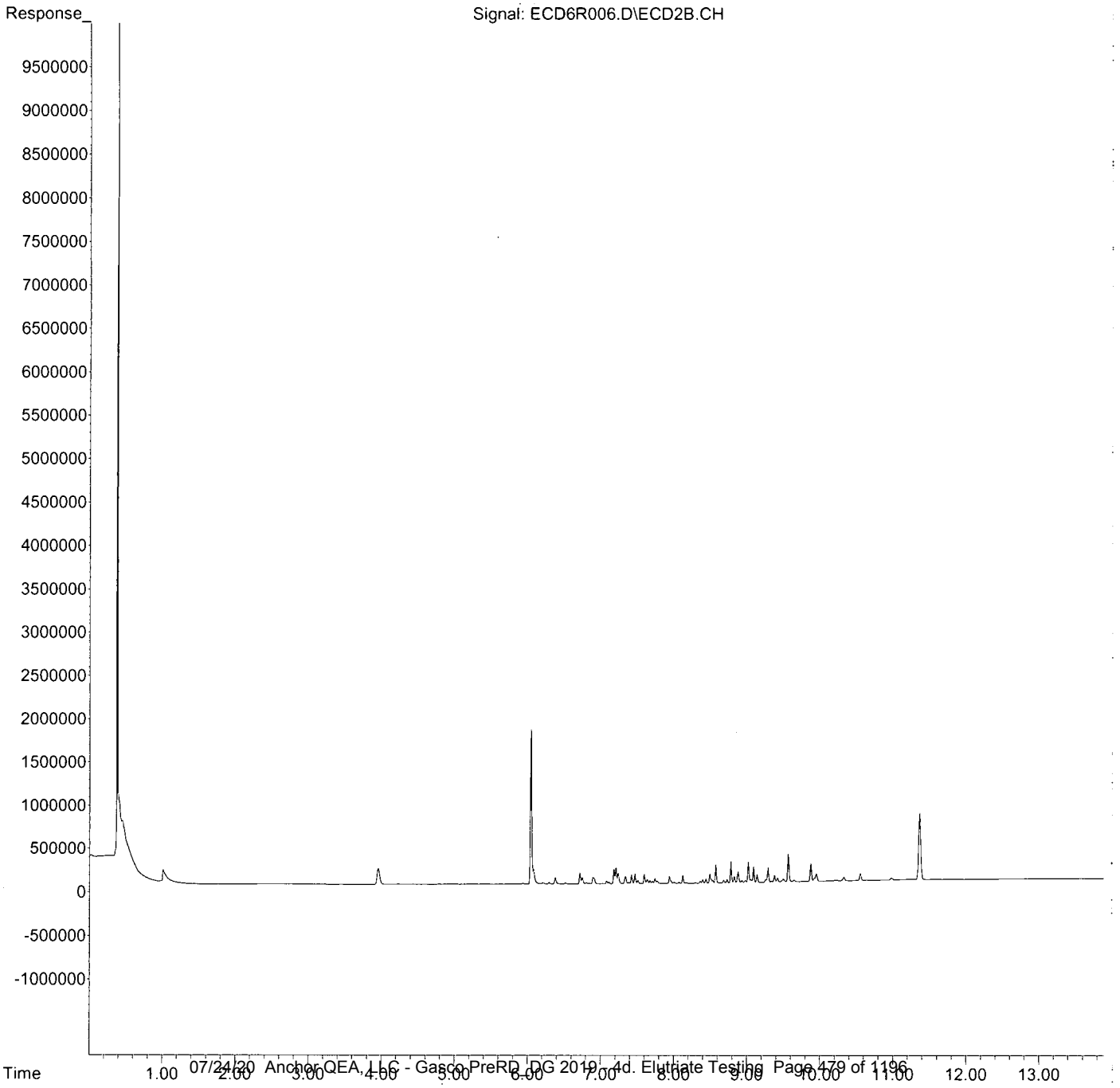
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26028-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:40:30 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R007.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26028-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:41:45 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.046	4324556	24.059	ng/ml
62)	S DCBP (S)	11.366	1845059	23.638	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.719	280841	53.266	ng/ml
3)	Aroclor 1016 (2)	7.212	425522	50.127	ng/ml
4)	Aroclor 1016 (3)	7.341	206620	51.899	ng/ml
5)	Aroclor 1016 (4)	7.426	240658	54.027	ng/ml
6)	Aroclor 1016 (5)	7.473	260088	53.980	ng/ml
7)	Aroclor 1016 (6)	7.600	250487	52.954	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)	8.579	476118	51.452	ng/ml
42)	Aroclor 1260 (2)	8.785	568739	51.772	ng/ml
43)	Aroclor 1260 (3)	9.024	561591	50.616	ng/ml
44)	Aroclor 1260 (4)	9.369	473561	49.983	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R007.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26028-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:41:45 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.878	474169	51.127	ng/ml
46)	Aroclor 1260 (6)	10.556	192129	52.941	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

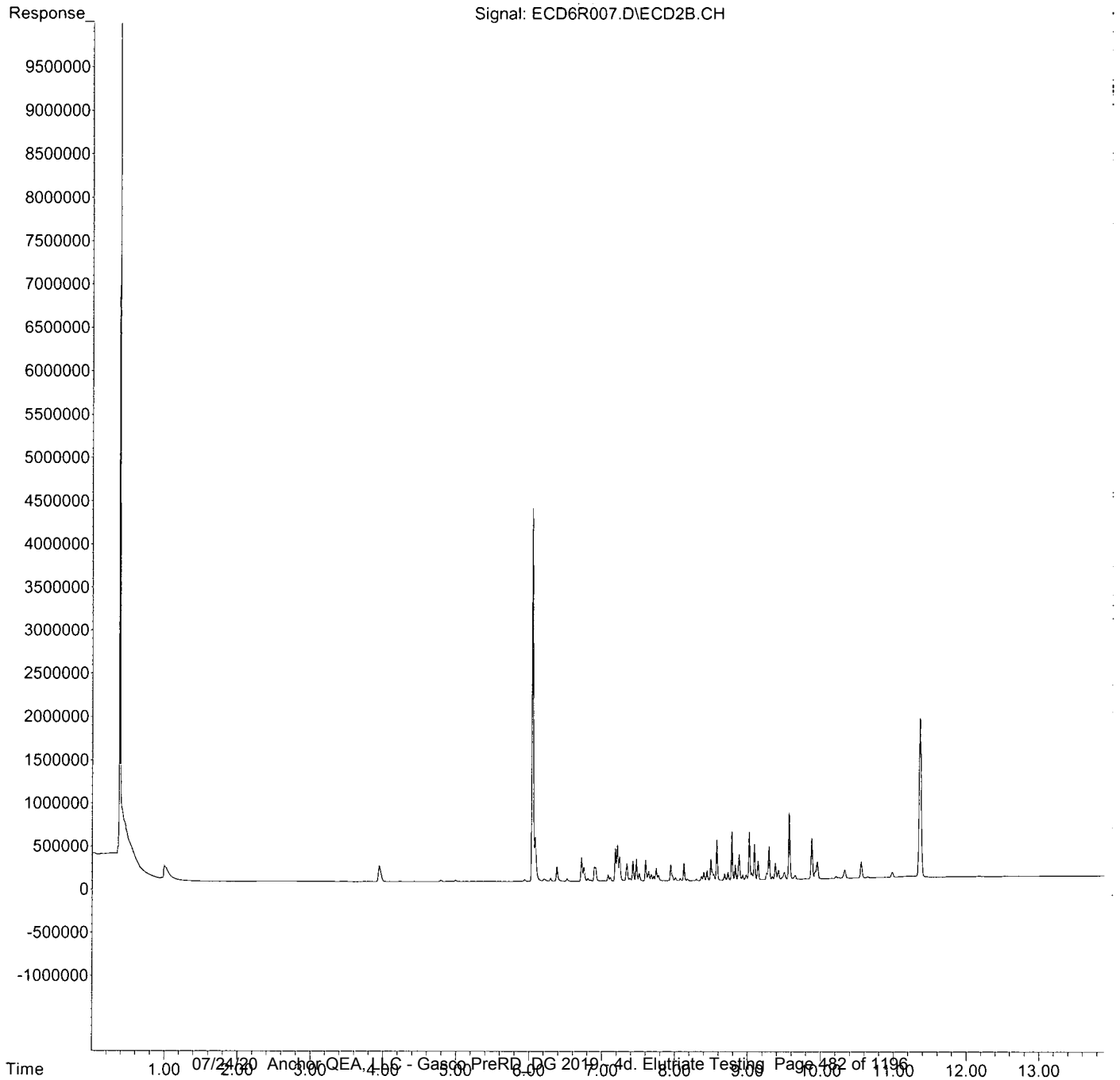
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R007.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26028-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:41:45 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R008.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26028-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:42:33 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.045	8899231	49.509	ng/ml
62) S	DCBP (S)	11.363	3862290	49.482	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	545267	103.418	ng/ml
3)	Aroclor 1016 (2)	7.211	875417	103.126	ng/ml
4)	Aroclor 1016 (3)	7.341	403604	101.378	ng/ml
5)	Aroclor 1016 (4)	7.425	462428	103.814	ng/ml
6)	Aroclor 1016 (5)	7.471	489098	101.509	ng/ml
7)	Aroclor 1016 (6)	7.599	484655	102.457	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)	8.578	930309	100.534	ng/ml
42)	Aroclor 1260 (2)	8.784	1081904	98.485	ng/ml
43)	Aroclor 1260 (3)	9.023	1123973	101.303	ng/ml
44)	Aroclor 1260 (4)	9.369	1517057	98.283	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R008.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26028-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:42:33 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	918774	99.067	ng/ml
46)	Aroclor 1260 (6)	10.555	366025	100.859	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

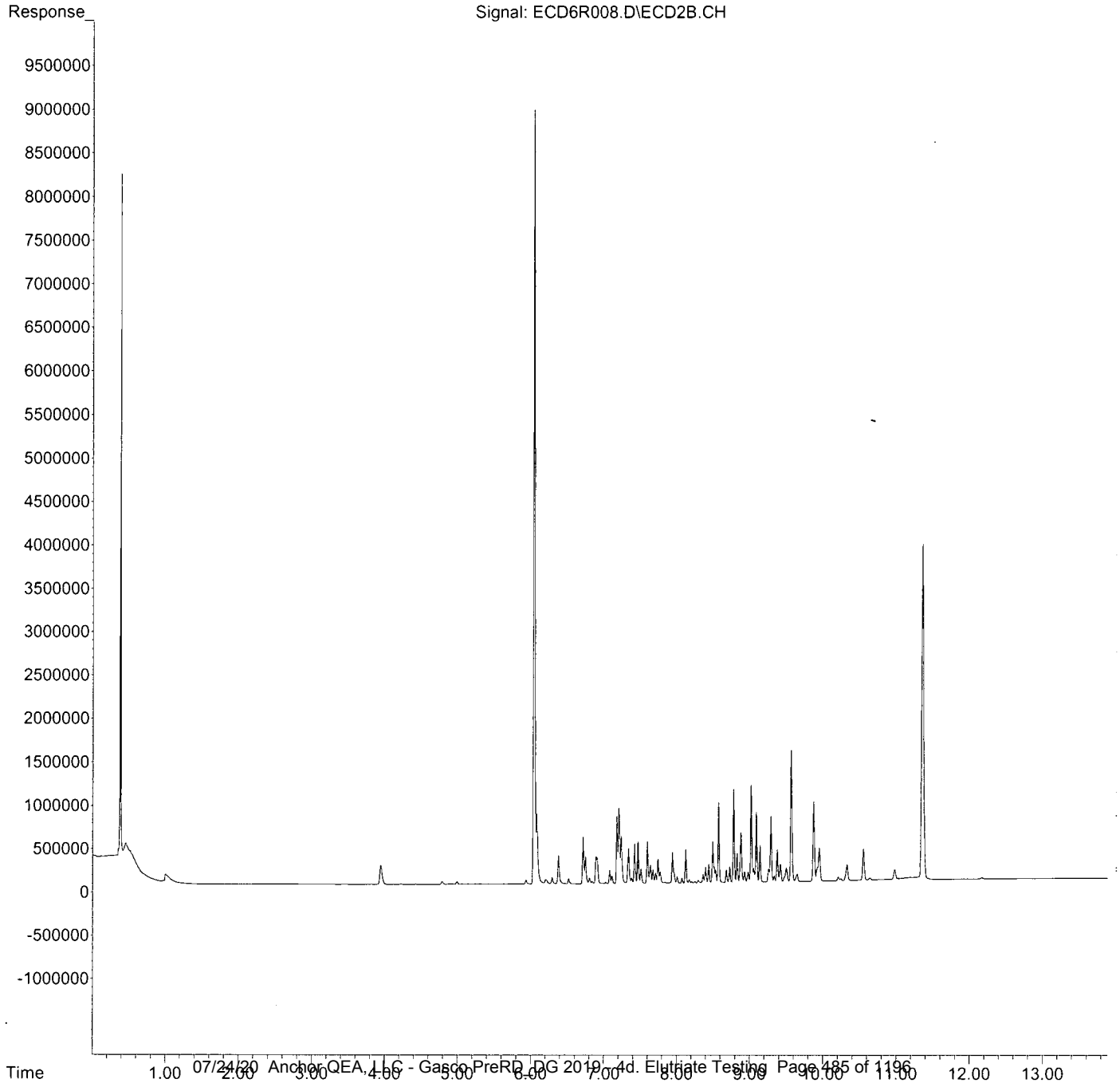
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R008.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26028-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:42:33 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R009.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26028-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:43:30 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	6.046	18599146	103.472	ng/ml	✓
62)	S DCBP (S)	11.364	7816417	100.140	ng/ml	✓
	Target Compounds					
2)	Aroclor 1016 (1)	6.719	1073793	203.661	ng/ml	
3)	Aroclor 1016 (2)	7.211	1675564	197.384	ng/ml	
4)	Aroclor 1016 (3)	7.341	811374	203.802	ng/ml	✓
5)	Aroclor 1016 (4)	7.425	863725	193.905	ng/ml	
6)	Aroclor 1016 (5)	7.471	959370	199.111	ng/ml	
7)	Aroclor 1016 (6)	7.599	943112	199.376	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)	8.578	1804678	195.023	ng/ml	
42)	Aroclor 1260 (2)	8.784	2138737	194.689	ng/ml	✓
43)	Aroclor 1260 (3)	9.023	2173084	195.858	ng/ml	
44)	Aroclor 1260 (4)	9.369	3159555	200.528	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R009.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26028-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:43:30 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	1834249	197.777	ng/ml
46)	Aroclor 1260 (6)	10.555	714372	196.846	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

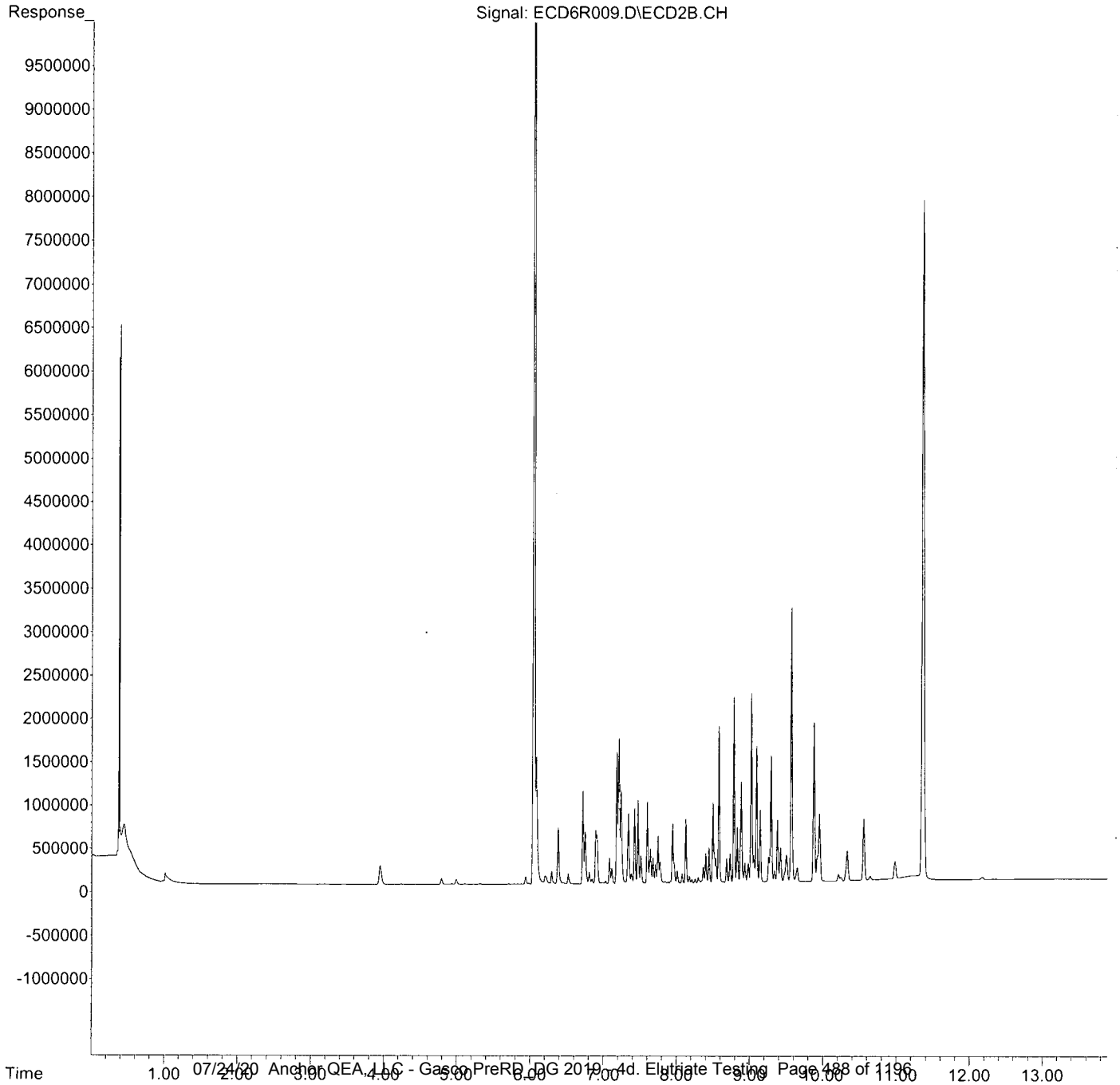
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R009.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26028-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:43:30 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R010.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26028-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:44:22 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.047	41344598	230.011	ng/ml
62) S	DCBP (S)	11.366	18099581	231.884	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	2412248	457.519	ng/ml
3)	Aroclor 1016 (2)	7.211	4184879	492.986	ng/ml
4)	Aroclor 1016 (3)	7.341	1860769	467.391	ng/ml
5)	Aroclor 1016 (4)	7.426	2054194	461.162	ng/ml
6)	Aroclor 1016 (5)	7.472	2208429	458.346	ng/ml
7)	Aroclor 1016 (6)	7.600	2232359	471.927	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)	8.578	4433137	479.068	ng/ml
42)	Aroclor 1260 (2)	8.784	5348705	486.891	ng/ml
43)	Aroclor 1260 (3)	9.023	5493009	495.080	ng/ml
44)	Aroclor 1260 (4)	9.369	7855995	497.329	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R010.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26028-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:44:22 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	4398859	474.306	ng/ml
46)	Aroclor 1260 (6)	10.555	1674834	461.503	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

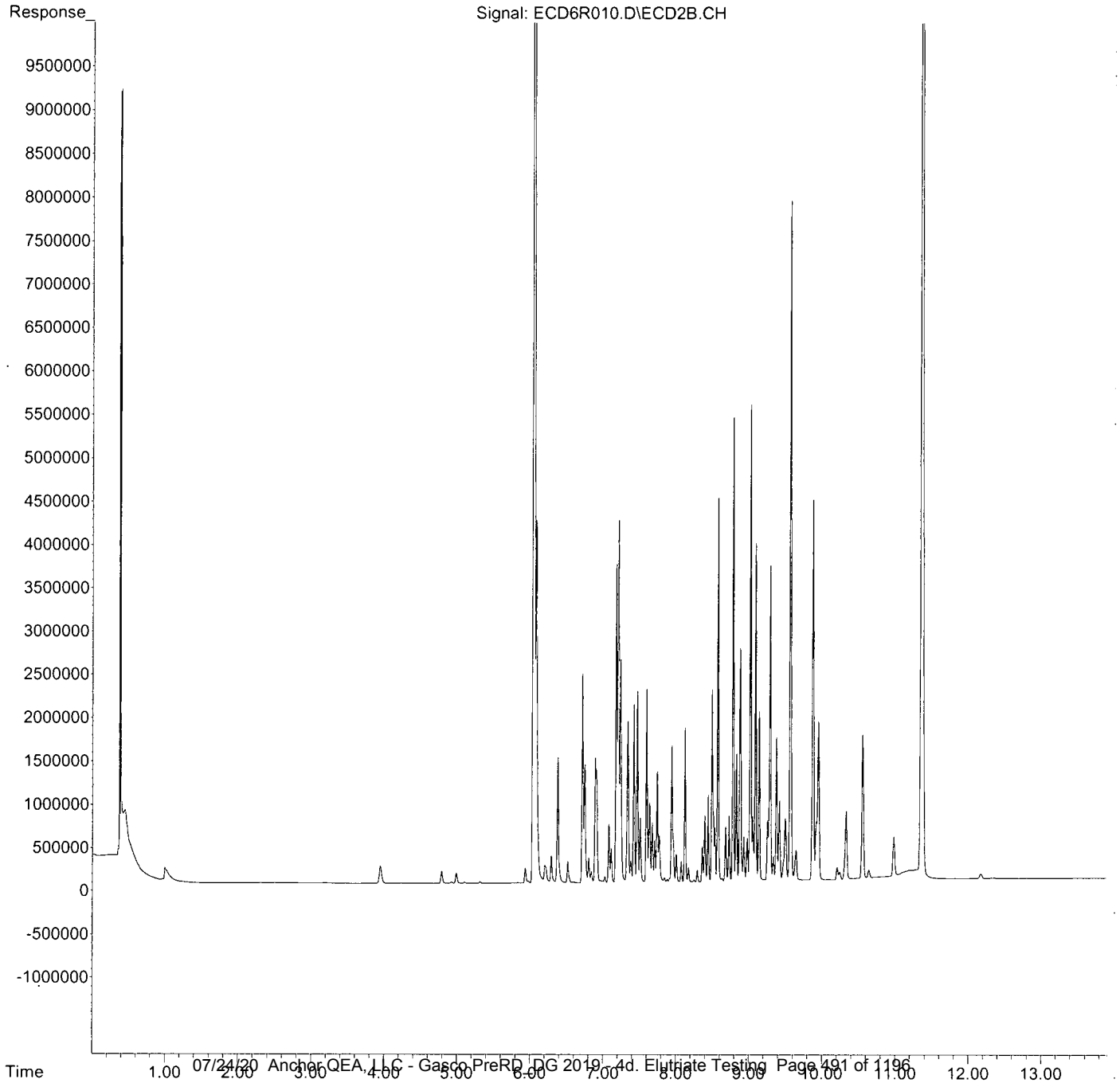
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R010.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26028-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:44:22 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R011.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26028-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:45:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.048	96365208	536.104	ng/ml
62)	S DCBP (S)	11.365	40860271	523.483	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	4684538	888.494	ng/ml
3)	Aroclor 1016 (2)	7.211	8134966	958.312	ng/ml
4)	Aroclor 1016 (3)	7.341	3715053	933.154	ng/ml
5)	Aroclor 1016 (4)	7.425	3926225	881.429	ng/ml
6)	Aroclor 1016 (5)	7.471	4353008	903.439	ng/ml
7)	Aroclor 1016 (6)	7.599	4291383	907.210	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)	8.578	8800369	951.013	ng/ml
42)	Aroclor 1260 (2)	8.784	10586268	963.666	ng/ml
43)	Aroclor 1260 (3)	9.023	10792979	972.761	ng/ml
44)	Aroclor 1260 (4)	9.369	15918290	1010.290	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R011.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26028-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:45:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.876	8918793	961.667	ng/ml
46)	Aroclor 1260 (6)	10.554	3405025	938.259	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

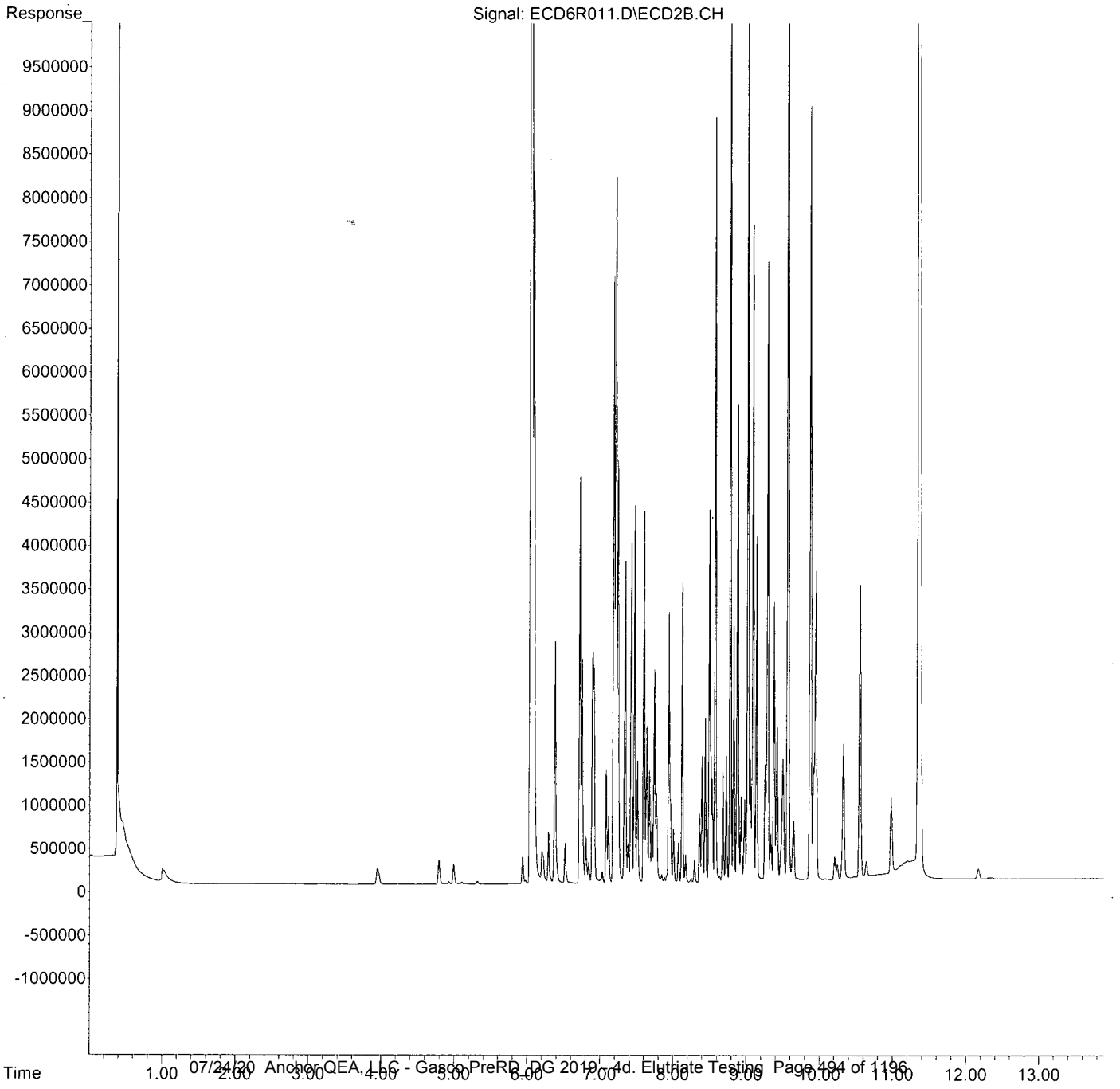
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R011.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26028-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:45:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R012.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26028-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:46:05 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.048	147812600	822.319	ng/ml
62)	S DCBP (S)	11.365	68521696	877.869	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	6694417	1269.698	ng/ml
3)	Aroclor 1016 (2)	7.211	12094241	1424.721	ng/ml
4)	Aroclor 1016 (3)	7.340	5599877	1406.588	ng/ml
5)	Aroclor 1016 (4)	7.425	5799432	1301.960	ng/ml
6)	Aroclor 1016 (5)	7.471	6422322	1332.912	ng/ml
7)	Aroclor 1016 (6)	7.599	6288012	1329.303	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)	8.578	13091180	1414.701	ng/ml
42)	Aroclor 1260 (2)	8.784	15788416	1437.216	ng/ml
43)	Aroclor 1260 (3)	9.023	16132878	1454.041	ng/ml
44)	Aroclor 1260 (4)	9.369	23967955	1521.180	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R012.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26028-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:46:05 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	13530536	1458.927	ng/ml
46)	Aroclor 1260 (6)	10.554	5032438	1386.695	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

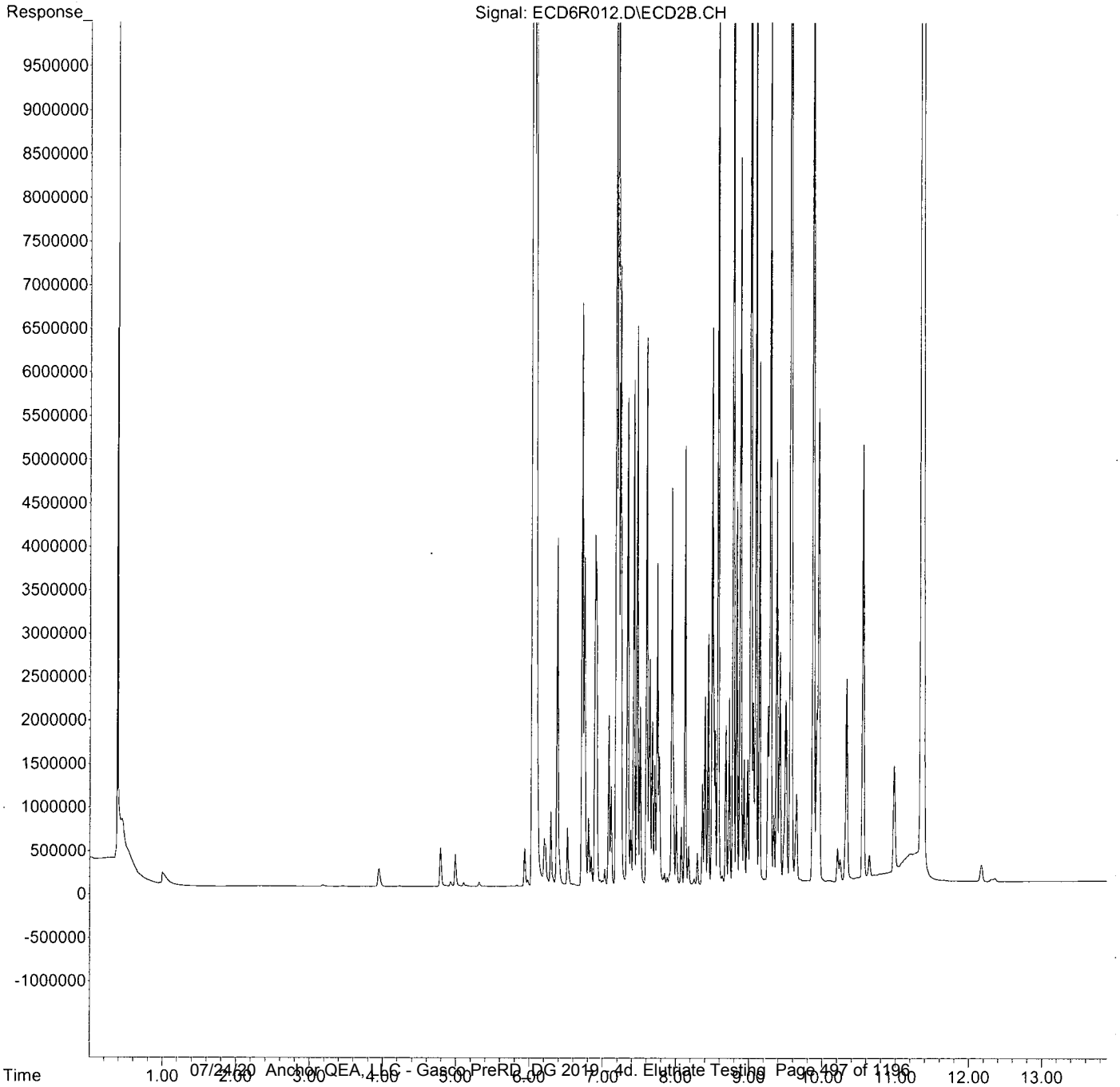
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\requant\
Data File : ECD6R012.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26028-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:46:05 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:36:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Sequence: C:\HPCHEM\1\SEQUENCE\0C25000.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	Isooctane	E6A71717	1	Sample		
2	Vial 1	Isooctane	E6A71717	1	Sample		
3	Vial 2	0C26027-CCV1	E6A71717	1	Sample		
4	Vial 3	0C26027-CCB1	E6A71717	1	Sample		
5	Vial 1	Isooctane	E6A71717	1	Sample		
6	Vial 3	0C26027-ICB1	E6A71717	1	Sample		
7	Vial 4	0C26027-CAL1	E6A71717	1	Sample		
8	Vial 5	0C26027-CAL2	E6A71717	1	Sample		
9	Vial 6	0C26027-CAL3	E6A71717	1	Sample		
10	Vial 7	0C26027-CAL4	E6A71717	1	Sample		
11	Vial 8	0C26027-CAL5	E6A71717	1	Sample		
12	Vial 9	0C26027-CAL6	E6A71717	1	Sample		
13	Vial 10	0C26027-CAL7	E6A71717	1	Sample		
14	Vial 1	0C26027-IBL1	E6A71717	1	Sample		
15	Vial 11	0C26027-ICV1	E6A71717	1	Sample		
16	Vial 12	0C26027-CAL8	E6A71717	1	Sample		
17	Vial 13	0C26027-CAL9	E6A71717	1	Sample		
18	Vial 14	0C26027-CALA	E6A71717	1	Sample		
19	Vial 15	0C26027-CALB	E6A71717	1	Sample		
20	Vial 16	0C26027-CALC	E6A71717	1	Sample		
21	Vial 17	0C26027-CALD	E6A71717	1	Sample		
22	Vial 18	0C26027-CALE	E6A71717	1	Sample		
23	Vial 19	0C26027-ICV2	E6A71717	1	Sample		
24	Vial 20	0C26027-ICV3	E6A71717	1	Sample		
25	Vial 21	0C26027-ICV4	E6A71717	1	Sample		
26	Vial 22	0C26027-ICV5	E6A71717	1	Sample		

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 51	Isooctane	E6A71717	1	Sample		
2	Vial 52	0C26028-CCV1	E6A71717	1	Sample		
3	Vial 53	0C26028-CCB1	E6A71717	1	Sample		
4	Vial 51	Isooctane	E6A71717	1	Sample		
5	Vial 53	0C26028-ICB1	E6A71717	1	Sample		
6	Vial 4	0C26028-CAL1	E6A71717	1	Sample		
7	Vial 5	0C26028-CAL2	E6A71717	1	Sample		
8	Vial 6	0C26028-CAL3	E6A71717	1	Sample		
9	Vial 7	0C26028-CAL4	E6A71717	1	Sample		
10	Vial 8	0C26028-CAL5	E6A71717	1	Sample		
11	Vial 9	0C26028-CAL6	E6A71717	1	Sample		
12	Vial 10	0C26028-CAL7	E6A71717	1	Sample		
13	Vial 51	0C26028-IBL1	E6A71717	1	Sample		
14	Vial 11	0C26028-ICV1	E6A71717	1	Sample		
15	Vial 12	0C26028-CAL8	E6A71717	1	Sample		
16	Vial 13	0C26028-CAL9	E6A71717	1	Sample		
17	Vial 14	0C26028-CALA	E6A71717	1	Sample		
18	Vial 15	0C26028-CALB	E6A71717	1	Sample		
19	Vial 16	0C26028-CALC	E6A71717	1	Sample		
20	Vial 17	0C26028-CALD	E6A71717	1	Sample		
21	Vial 18	0C26028-CALE	E6A71717	1	Sample		
22	Vial 19	0C26028-ICV2	E6A71717	1	Sample		
23	Vial 20	0C26028-ICV3	E6A71717	1	Sample		

3/26/20

Sequence: C:\HPCHEM\1\SEQUENCE\0C25000.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
24	Vial 21	0C26028-ICV4	E6A71717	1	Sample		
25	Vial 22	0C26028-ICV5	E6A71717	1	Sample		
26	Vial 51	Isoocane	E6A71717	1	Sample		

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26028-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:45:11 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.047	1784231	10.533	ng/ml
62)	S DCBP (S)	11.368	773987	11.720	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.719	129934	25.373	ng/ml
3)	Aroclor 1016 (2)	7.213	184239	20.856	ng/ml
4)	Aroclor 1016 (3)	7.342	89462	21.817	ng/ml
5)	Aroclor 1016 (4)	7.426	110474	26.887	ng/ml
6)	Aroclor 1016 (5)	7.473	115737	25.613	ng/ml
7)	Aroclor 1016 (6)	7.600	111844	25.172	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)	8.579	210656	25.576	ng/ml
42)	Aroclor 1260 (2)	8.785	244022	24.167	ng/ml
43)	Aroclor 1260 (3)	9.025	235904	23.686	ng/ml
44)	Aroclor 1260 (4)	9.370	325775	23.045	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26028-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:45:11 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.879	206818	24.738	ng/ml
46)	Aroclor 1260 (6)	10.557	84385	25.107	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

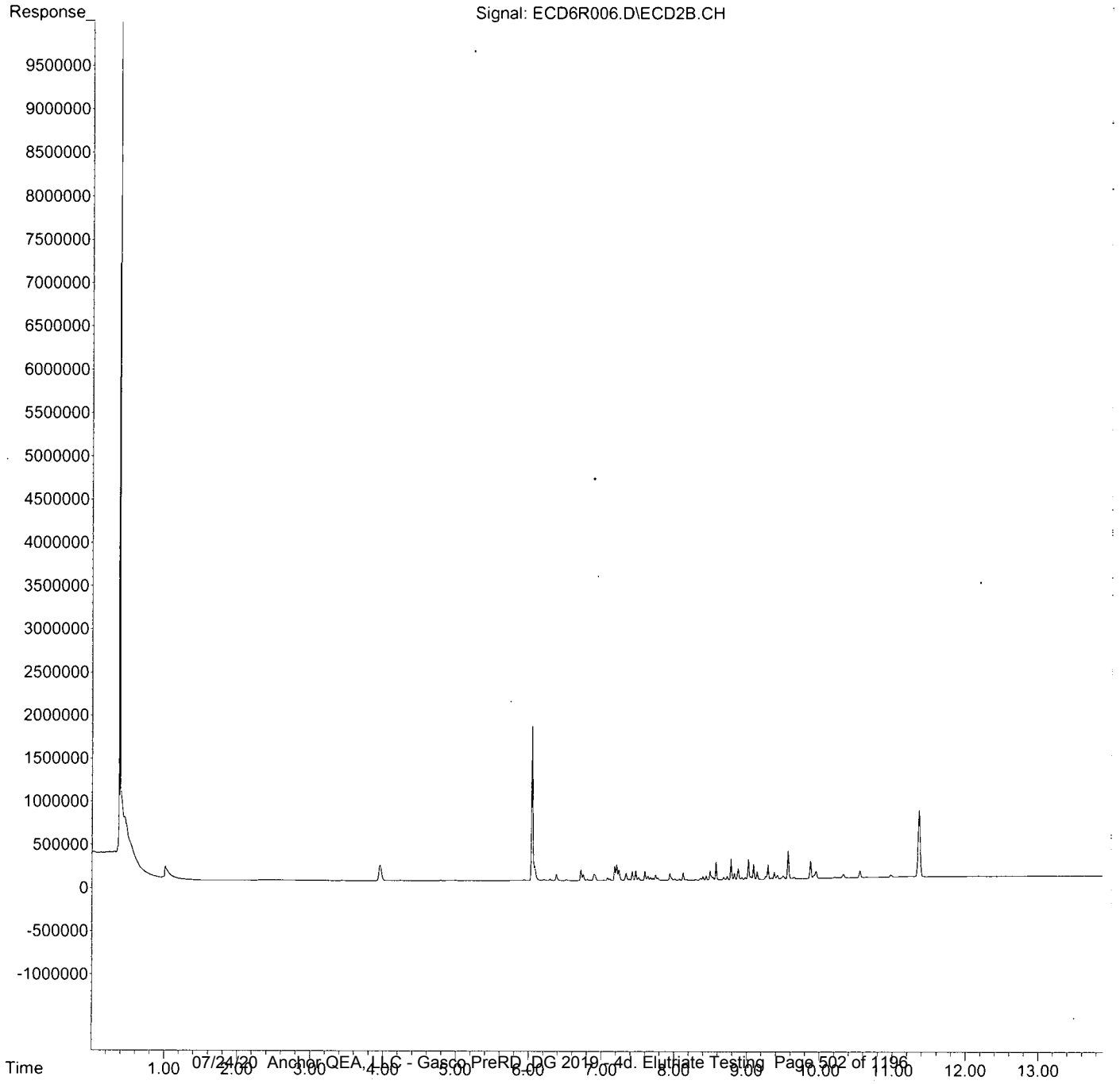
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R006.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:31 am
Operator : MJB/KAK
Sample : 0C26028-CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:45:11 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R007.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26028-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:50:13 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.046	4324556	25.530	ng/ml
62) S	DCBP (S)	11.366	1845059	27.937	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.719	280841	54.842	ng/ml
3)	Aroclor 1016 (2)	7.212	425522	48.170	ng/ml
4)	Aroclor 1016 (3)	7.341	206620	50.389	ng/ml
5)	Aroclor 1016 (4)	7.426	240658	58.572	ng/ml
6)	Aroclor 1016 (5)	7.473	260088	57.559	ng/ml
7)	Aroclor 1016 (6)	7.600	250487	56.374	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)	8.579	476118	57.807	ng/ml
42)	Aroclor 1260 (2)	8.785	568739	56.327	ng/ml
43)	Aroclor 1260 (3)	9.024	561591	56.386	ng/ml
44)	Aroclor 1260 (4)	9.369	773561	54.707	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R007.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26028-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:50:13 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.878	474169	56.716	ng/ml
46)	Aroclor 1260 (6)	10.556	192129	57.164	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

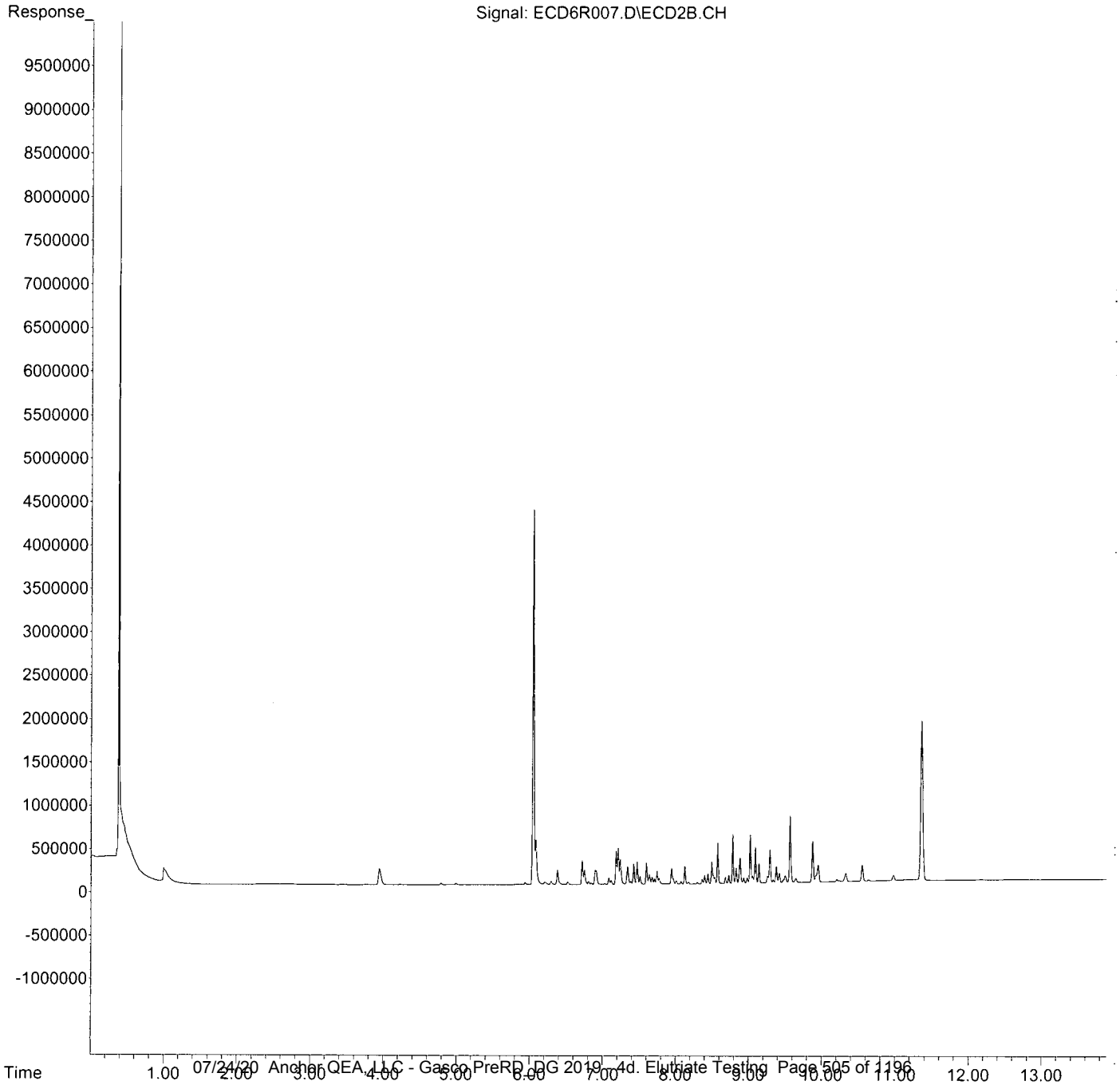
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R007.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 8:49 am
Operator : MJB/KAK
Sample : 0C26028-CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:50:13 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R008.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26028-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:51:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.045	8899231	52.537	ng/ml
62)	S DCBP (S)	11.363	3862290	58.482	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	545267	106.479	ng/ml
3)	Aroclor 1016 (2)	7.211	875417	99.098	ng/ml
4)	Aroclor 1016 (3)	7.341	403604	98.429	ng/ml
5)	Aroclor 1016 (4)	7.425	462428	112.547	ng/ml
6)	Aroclor 1016 (5)	7.471	489098	108.239	ng/ml
7)	Aroclor 1016 (6)	7.599	484655	109.076	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)	8.578	930309	112.951	ng/ml
42)	Aroclor 1260 (2)	8.784	1081904	107.149	ng/ml
43)	Aroclor 1260 (3)	9.023	1123973	112.851	ng/ml
44)	Aroclor 1260 (4)	9.369	1517057	107.315	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R008.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26028-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:51:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	918774	109.895	ng/ml
46)	Aroclor 1260 (6)	10.555	366025	108.902	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

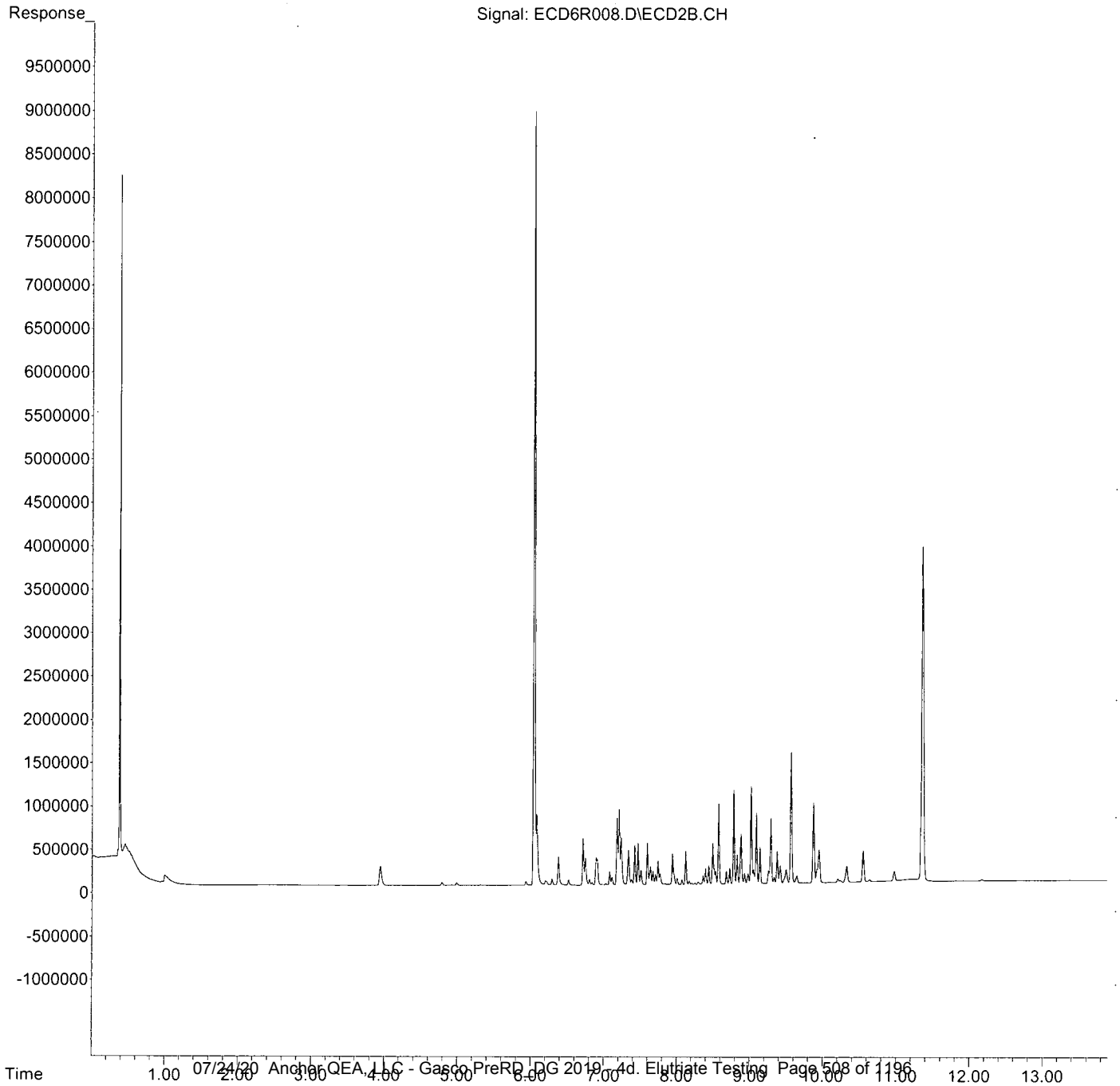
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R008.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:06 am
Operator : MJB/KAK
Sample : 0C26028-CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:51:14 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R009.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26028-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:52:17 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.046	18599146	109.801	ng/ml
62) S	DCBP (S)	11.364	7816417	118.354	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.719	1073793	209.688	ng/ml
3)	Aroclor 1016 (2)	7.211	1675564	189.676	ng/ml
4)	Aroclor 1016 (3)	7.341	811374	197.873	ng/ml
5)	Aroclor 1016 (4)	7.425	863725	210.215	ng/ml
6)	Aroclor 1016 (5)	7.471	959370	212.312	ng/ml
7)	Aroclor 1016 (6)	7.599	943112	212.256	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)	8.578	1804678	219.110	ng/ml
42)	Aroclor 1260 (2)	8.784	2138737	211.816	ng/ml
43)	Aroclor 1260 (3)	9.023	2173084	218.185	ng/ml
44)	Aroclor 1260 (4)	9.369	3159555	223.504	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R009.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26028-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:52:17 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	1834249	219.395	ng/ml
46)	Aroclor 1260 (6)	10.555	714372	212.545	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

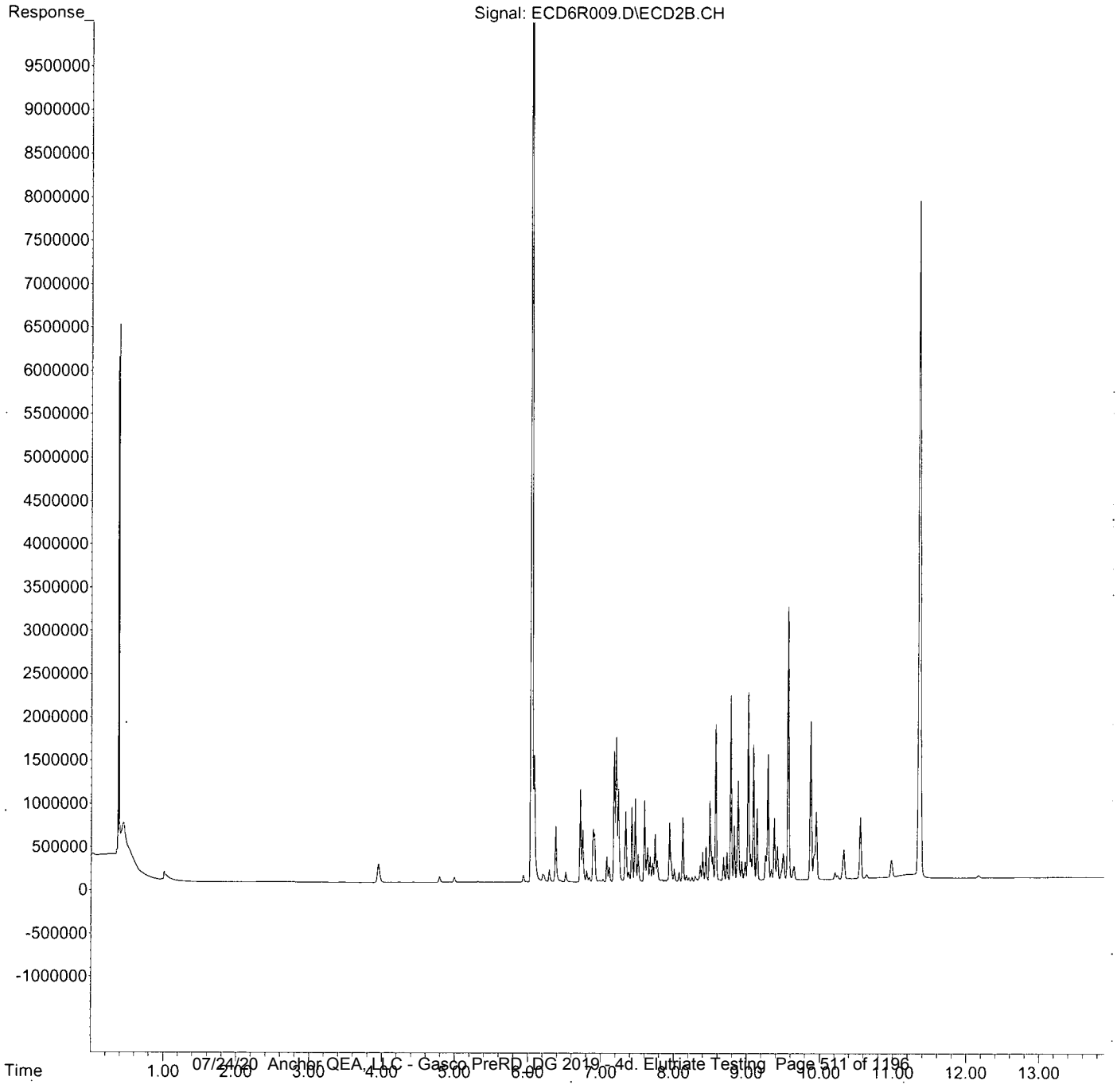
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R009.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:24 am
Operator : MJB/KAK
Sample : 0C26028-CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:52:17 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R010.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26028-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:43:58 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 08:42:57 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.047	41344598	244.080	ng/ml
62) S	DCBP (S)	11.366	18099581	274.060	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	2412248	471.060	ng/ml
3)	Aroclor 1016 (2)	7.211	4184879	473.734	ng/ml
4)	Aroclor 1016 (3)	7.341	1860769	453.793	ng/ml
5)	Aroclor 1016 (4)	7.426	2054194	499.954	ng/ml
6)	Aroclor 1016 (5)	7.472	2208429	488.735	ng/ml
7)	Aroclor 1016 (6)	7.600	2232359	502.413	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/ml
41)	Aroclor 1260 (1)	8.578	4433137	538.237	ng/ml
42)	Aroclor 1260 (2)	8.784	5348705	529.723	ng/ml
43)	Aroclor 1260 (3)	9.023	5493009	551.516	ng/ml
44)	Aroclor 1260 (4)	9.369	7855995	594.312	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R010.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26028-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:43:58 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 08:42:57 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	4398859	526.149	ng/ml
46)	Aroclor 1260 (6)	10.555	1674834	498.308	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

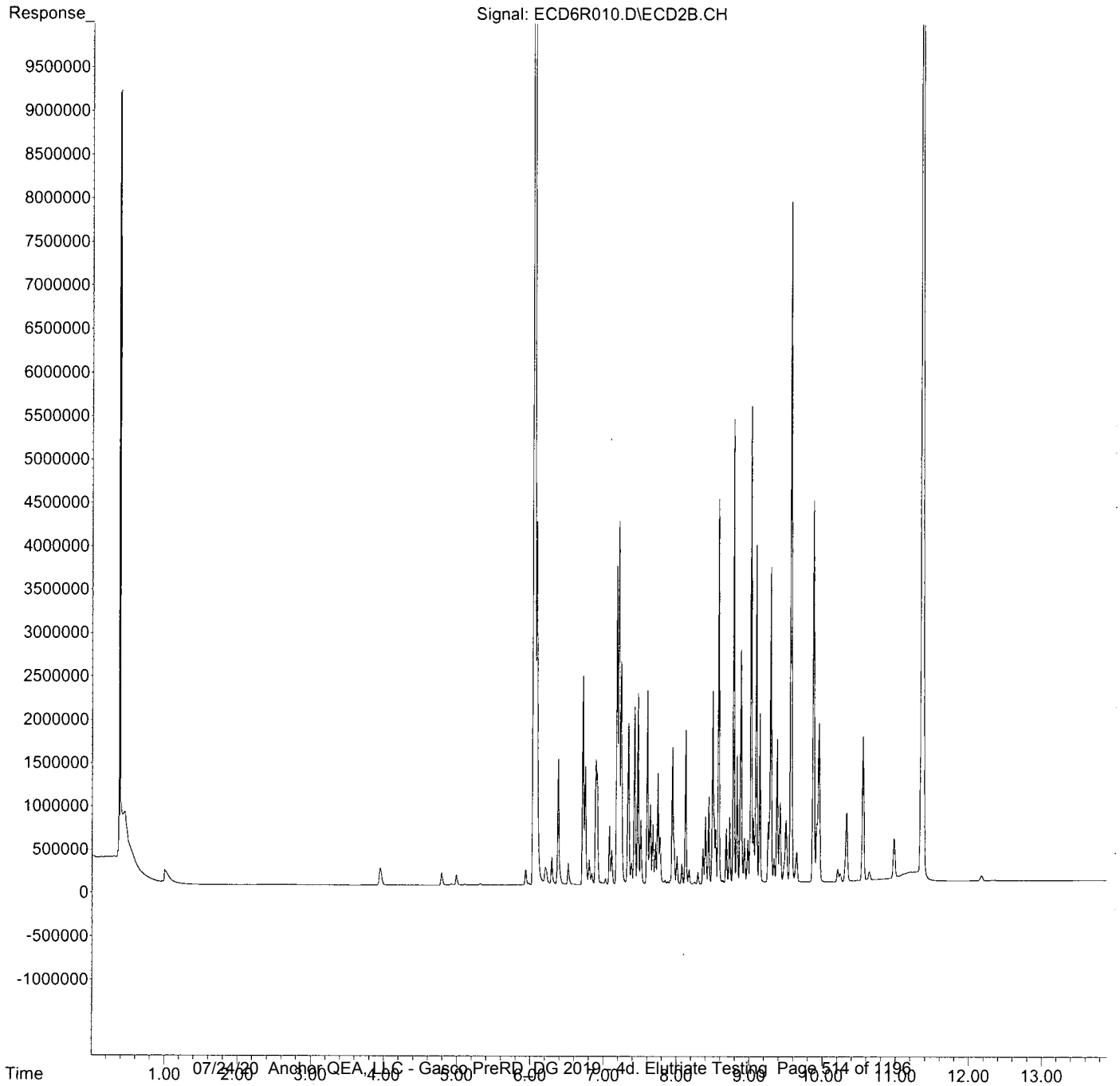
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R010.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:42 am
Operator : MJB/KAK
Sample : 0C26028-CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:43:58 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 08:42:57 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R011.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26028-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:53:44 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	6.048	96365208	568.896	ng/ml
62) S	DCBP (S)	11.365	40860271	618.697	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	4684538	914.789	ng/ml
3)	Aroclor 1016 (2)	7.211	8134966	920.889	ng/ml
4)	Aroclor 1016 (3)	7.341	3715053	906.004	ng/ml
5)	Aroclor 1016 (4)	7.425	3926225	955.572	ng/ml
6)	Aroclor 1016 (5)	7.471	4353008	963.339	ng/ml
7)	Aroclor 1016 (6)	7.599	4291383	965.816	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)	8.578	8800369	1068.473	ng/ml
42)	Aroclor 1260 (2)	8.784	10586268	1048.439	ng/ml
43)	Aroclor 1260 (3)	9.023	10792979	1083.651	ng/ml
44)	Aroclor 1260 (4)	9.369	13918290	1126.046	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R011.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26028-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:53:44 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.876	8918793	1066.780	ng/ml
46)	Aroclor 1260 (6)	10.554	3405025	1013.085	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

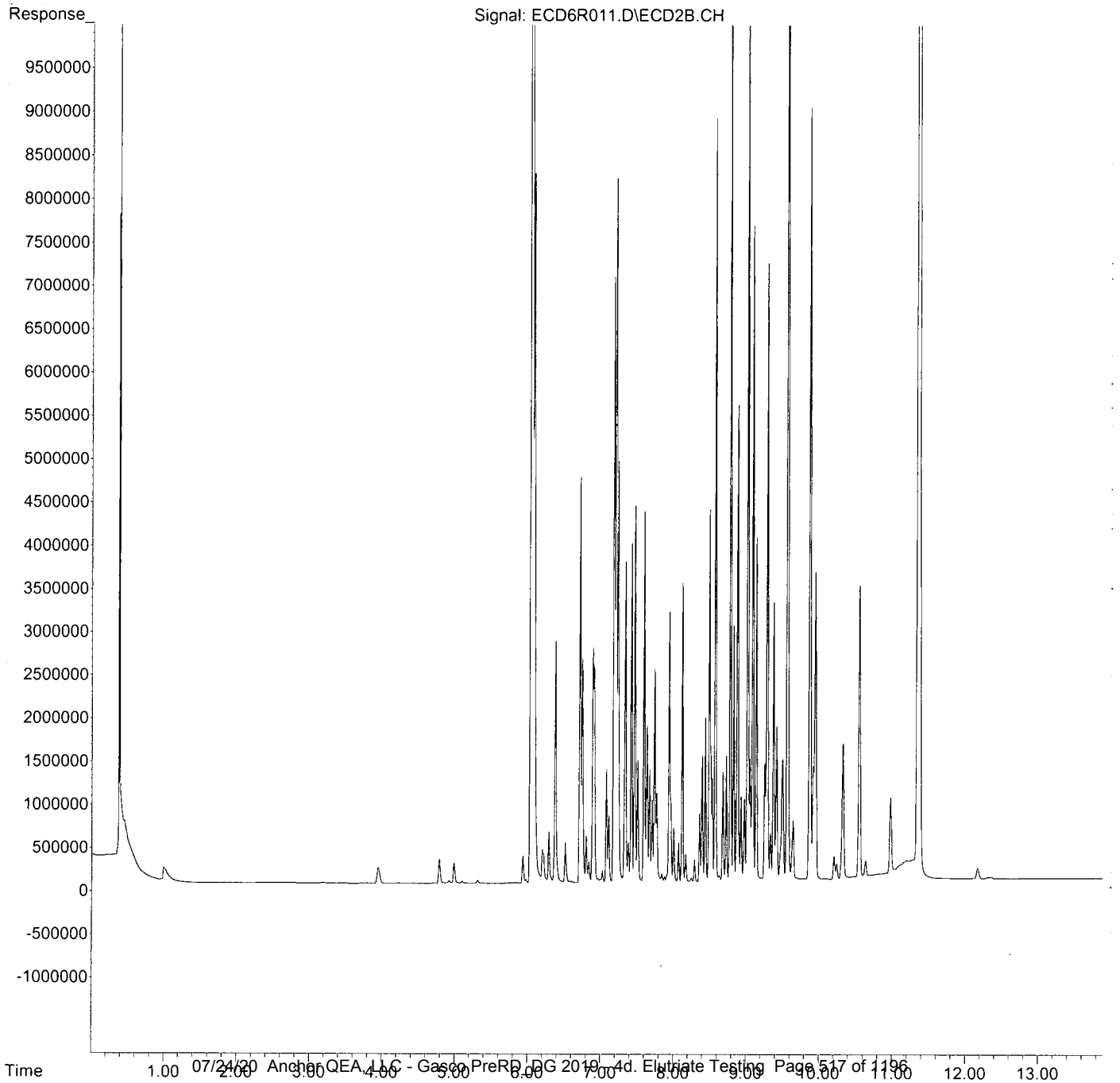
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R011.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 9:59 am
Operator : MJB/KAK
Sample : 0C26028-CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:53:44 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R012.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26028-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:54:50 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	6.048	147812600	872.618	ng/ml
62)	S DCBP (S)	11.365	68521696	1037.540	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.718	6694417	1307.274	ng/ml
3)	Aroclor 1016 (2)	7.211	12094241	1369.083	ng/ml
4)	Aroclor 1016 (3)	7.340	5599877	1365.663	ng/ml
5)	Aroclor 1016 (4)	7.425	5799432	1411.476	ng/ml
6)	Aroclor 1016 (5)	7.471	6422322	1421.287	ng/ml
7)	Aroclor 1016 (6)	7.599	6288012	1415.176	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)	8.578	13091180	1589.430	ng/ml
42)	Aroclor 1260 (2)	8.784	15788416	1563.647	ng/ml
43)	Aroclor 1260 (3)	9.023	16132878	1619.795	ng/ml
44)	Aroclor 1260 (4)	9.369	23967955	1695.473	ng/ml

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R012.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26028-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:54:50 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
45)	Aroclor 1260 (5)	9.877	13530536	1618.393	ng/ml
46)	Aroclor 1260 (6)	10.554	5032438	1497.284	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml
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

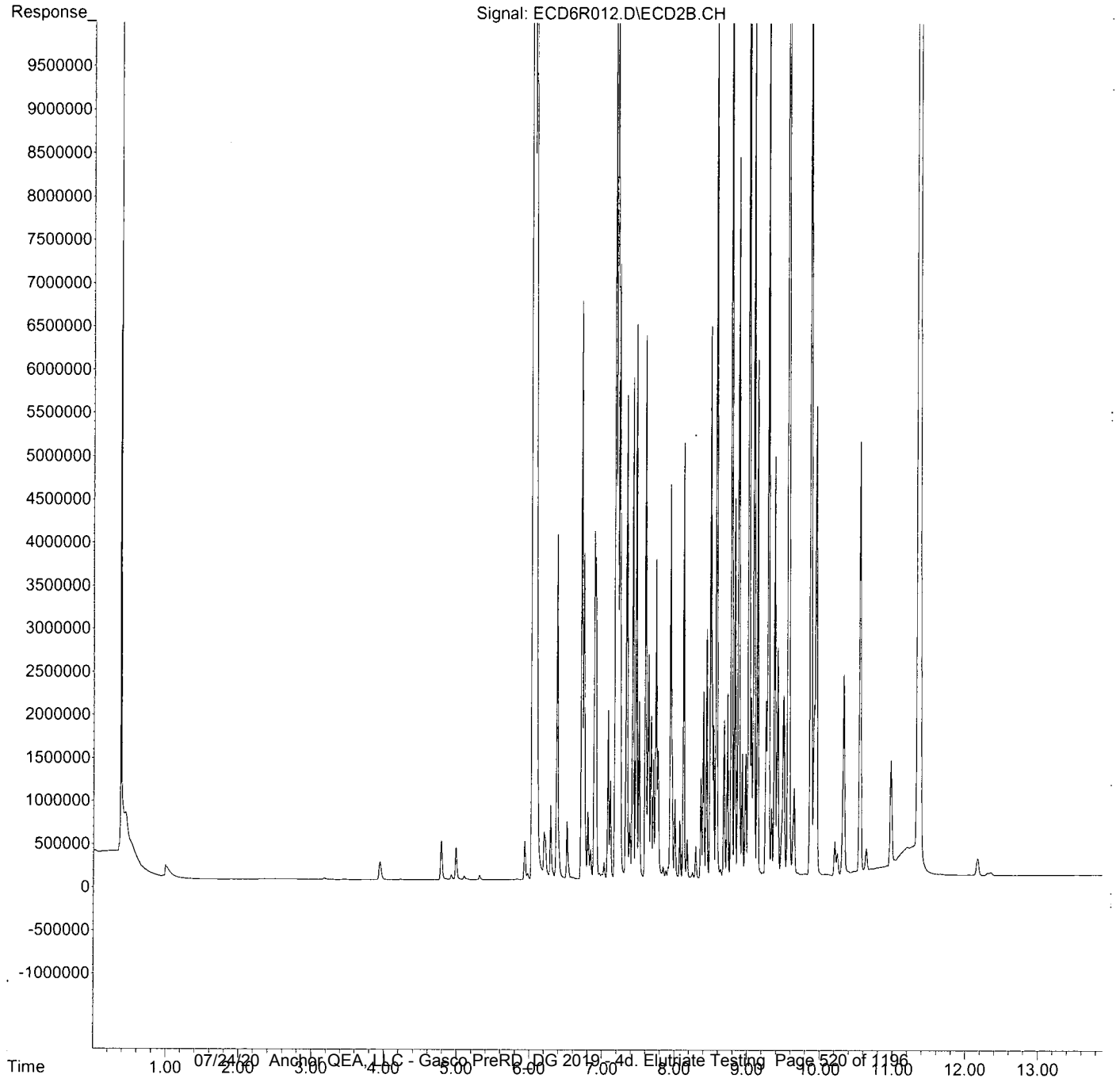
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R012.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 10:17 am
Operator : MJB/KAK
Sample : 0C26028-CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:54:50 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Thu Feb 13 14:31:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R015.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:11 pm
Operator : MJB/KAK
Sample : 0C26028-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:56:06 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 08:55:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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)	6.221	698380	540.864	ng/ml
10)	Aroclor 1221 (2)	6.294	654194	510.545	ng/ml
11)	Aroclor 1221 (3)	6.381	2112776	518.236	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

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Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R015.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:11 pm
Operator : MJB/KAK
Sample : 0C26028-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:56:06 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 08:55:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
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

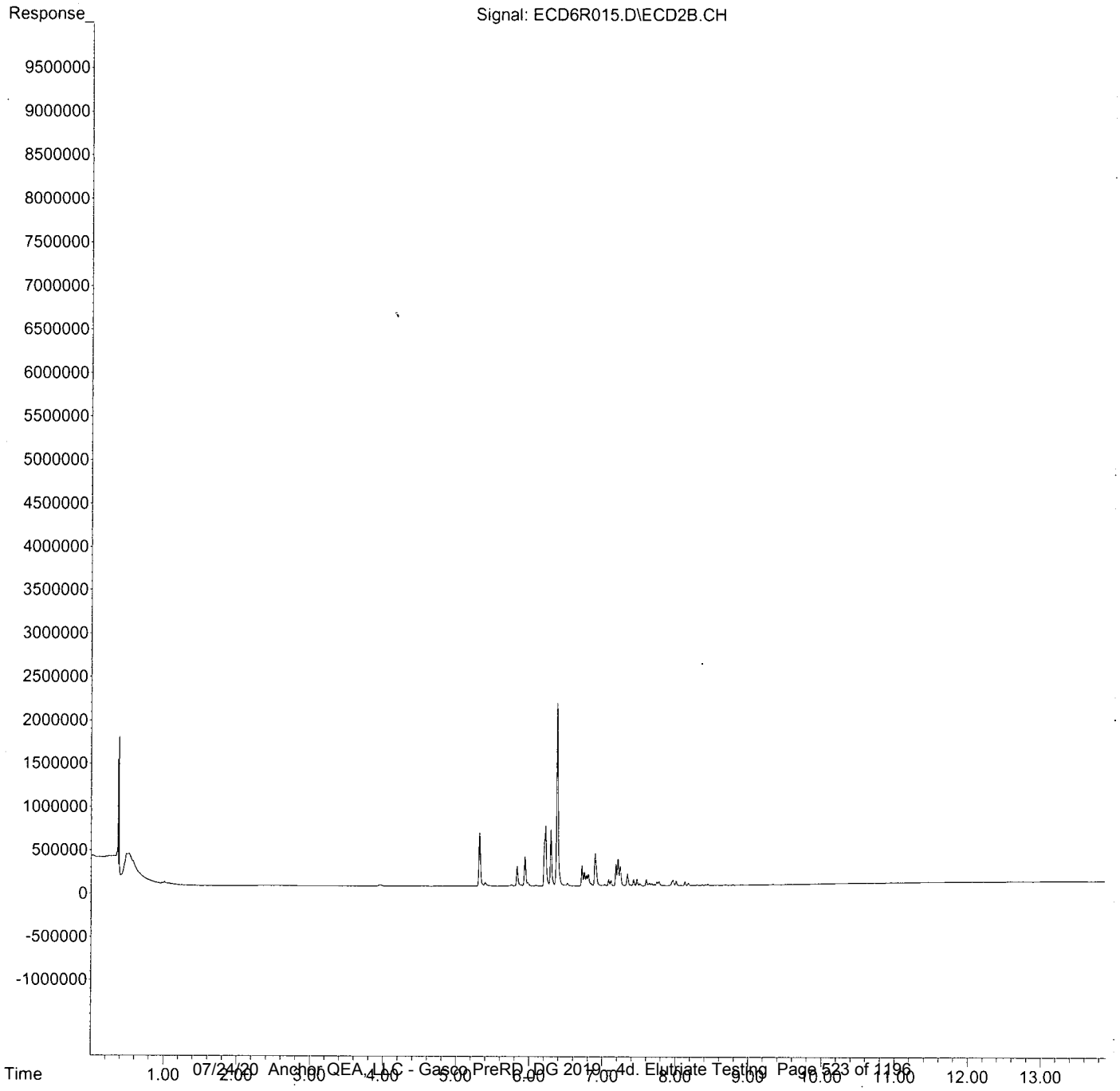
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R015.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:11 pm
Operator : MJB/KAK
Sample : 0C26028-CAL8
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 08:56:06 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 08:55:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R016.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:29 pm
Operator : MJB/KAK
Sample : 0C26028-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:09:20 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:08:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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)	6.382	1736729	504.847	ng/ml
14)	Aroclor 1232 (2)	6.719	1032679	488.935	ng/ml
15)	Aroclor 1232 (3)	7.212	1671401	451.758	ng/ml
16)	Aroclor 1232 (4)	7.425	717290	516.758	ng/ml
17)	Aroclor 1232 (5)	7.472	828691	513.213	ng/ml
18)	Aroclor 1232 (6)	7.599	836755	501.293	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

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Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R016.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:29 pm
Operator : MJB/KAK
Sample : 0C26028-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:09:20 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:08:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
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

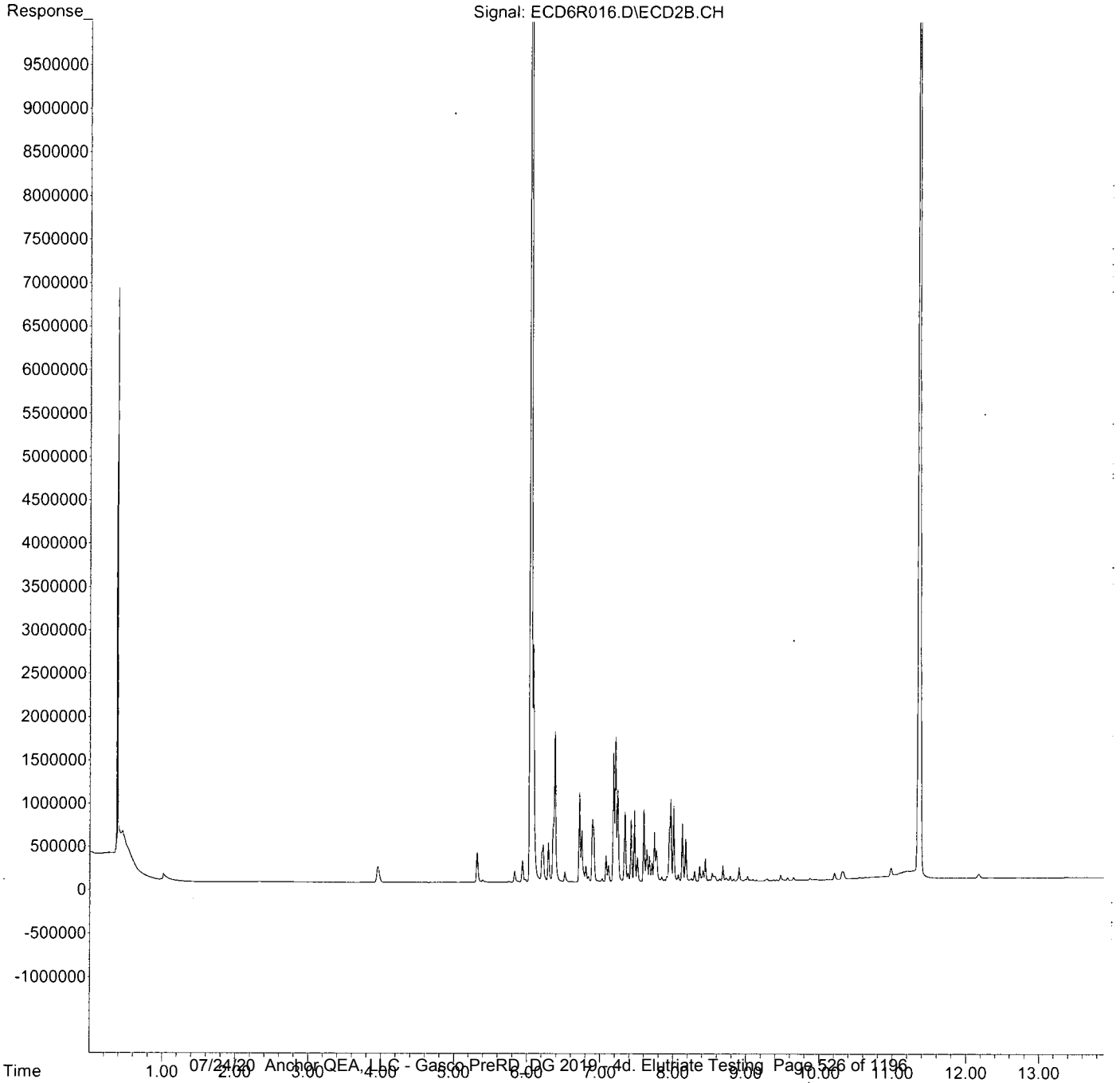
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R016.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:29 pm
Operator : MJB/KAK
Sample : 0C26028-CAL9
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:09:20 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:08:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R017.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:46 pm
Operator : MJB/KAK
Sample : 0C26028-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:10:38 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:09:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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)	6.720	1852160	472.955	ng/ml
21)	Aroclor 1242 (2)	7.212	3125537	428.476	ng/ml
22)	Aroclor 1242 (3)	7.343	1494316	473.702	ng/ml
23)	Aroclor 1242 (4)	7.426	1507849	511.807	ng/ml
24)	Aroclor 1242 (5)	7.473	1684923	498.566	ng/ml
25)	Aroclor 1242 (6)	7.601	1752737	514.257	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

3/27/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R017.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:46 pm
Operator : MJB/KAK
Sample : 0C26028-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:10:38 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:09:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
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

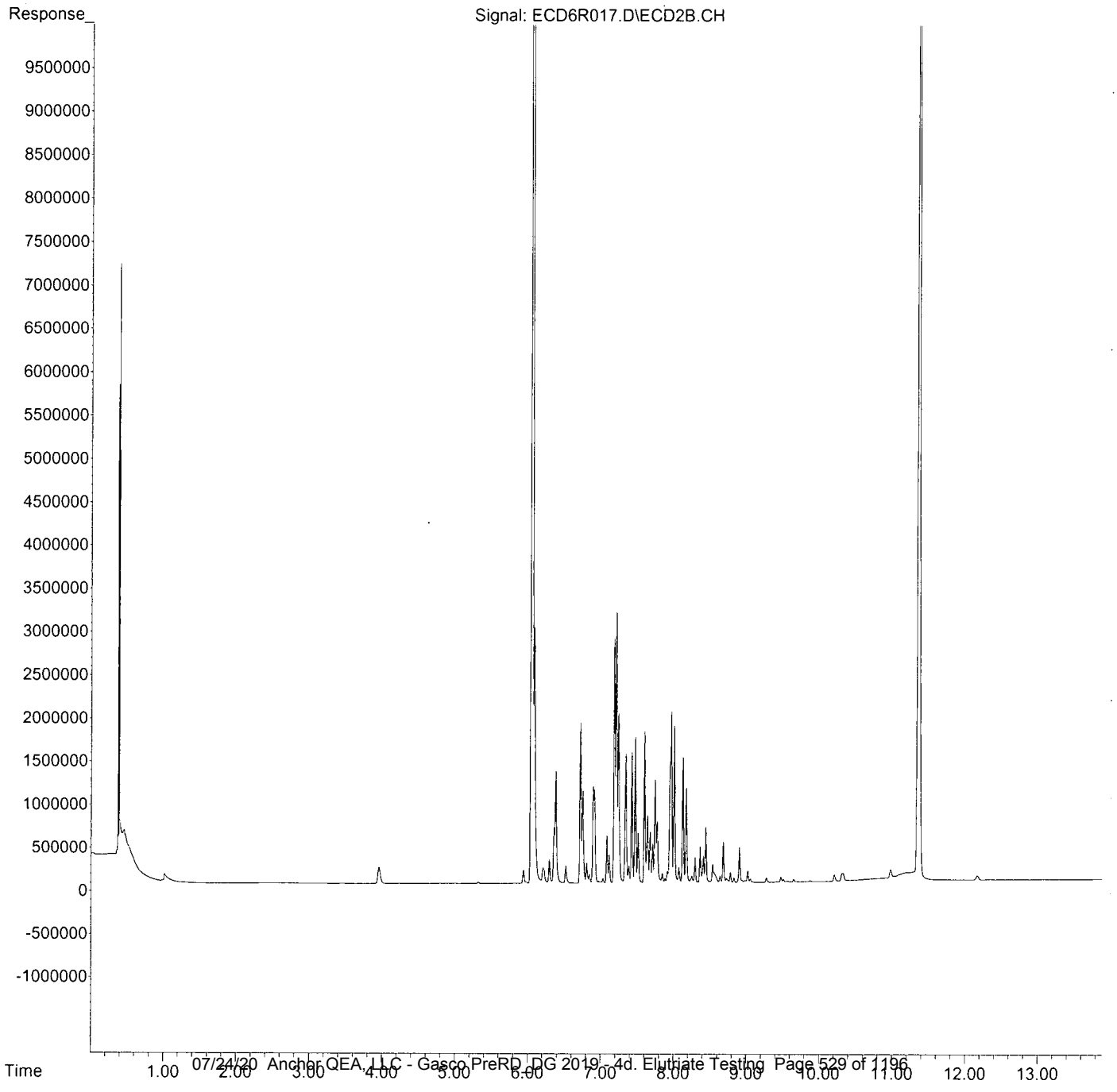
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R017.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 4:46 pm
Operator : MJB/KAK
Sample : 0C26028-CALA
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:10:38 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:09:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R018.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:04 pm
Operator : MJB/KAK
Sample : 0C26028-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:12:54 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:12:11 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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)	7.185	1958998	480.870	ng/ml
28)	Aroclor 1248 (2)	7.426	2601157	509.283	ng/ml
29)	Aroclor 1248 (3)	7.473	2379172	502.121	ng/ml
30)	Aroclor 1248 (4)	7.601	2850837	518.664	ng/ml
31)	Aroclor 1248 (5)	7.968	3442093	493.432	ng/ml
32)	Aroclor 1248 (6)	8.129	2950184	491.514	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

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R018.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:04 pm
Operator : MJB/KAK
Sample : 0C26028-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:12:54 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:12:11 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
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

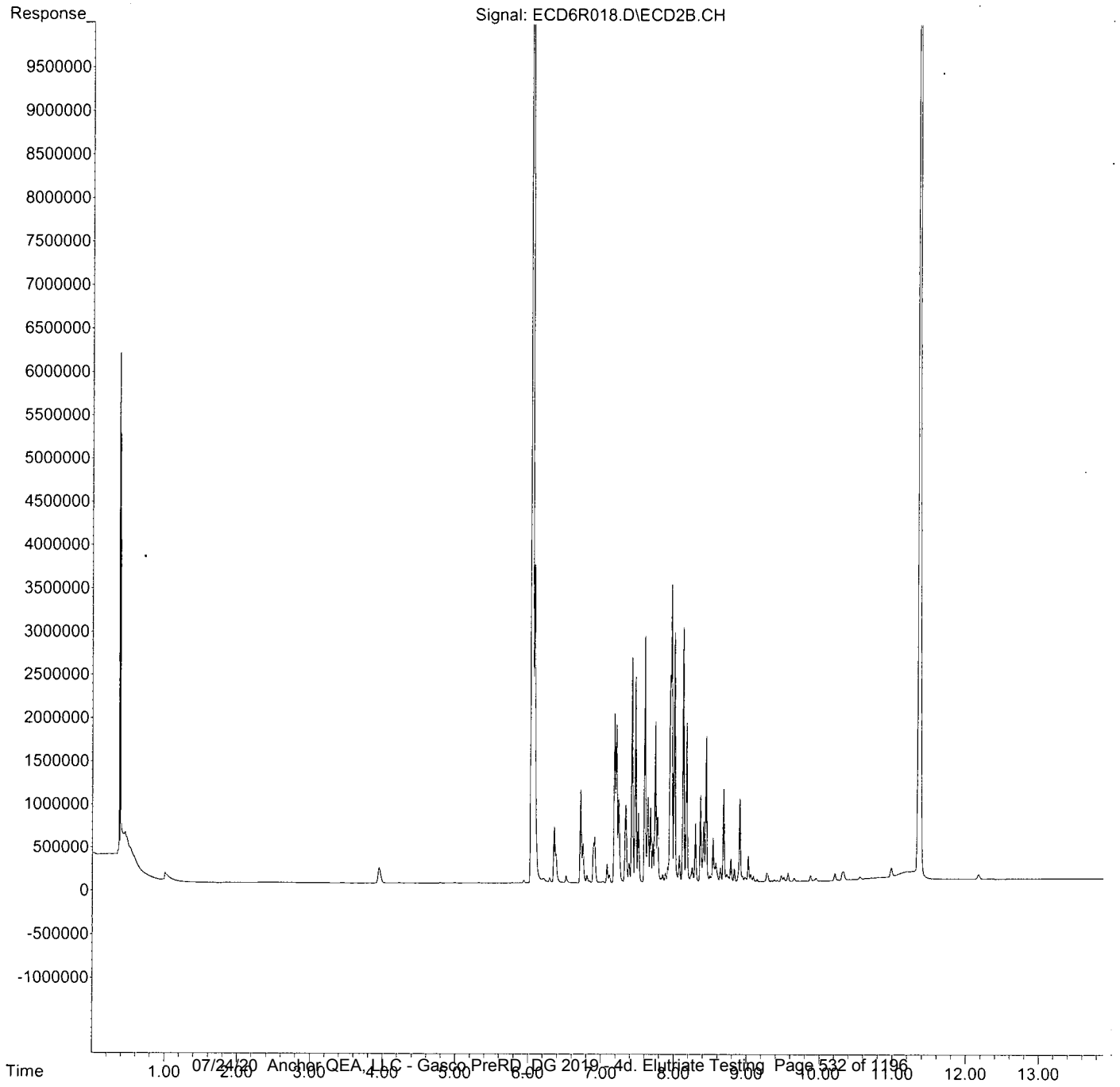
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R018.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:04 pm
Operator : MJB/KAK
Sample : 0C26028-CALB
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:12:54 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:12:11 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R019.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:22 pm
Operator : MJB/KAK
Sample : 0C26028-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:14:53 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:14:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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)	7.945	3797342	467.946	ng/ml
35)	Aroclor 1254 (2)	8.127	5517619	445.017	ng/ml
36)	Aroclor 1254 (3)	8.443	6088831	459.204	ng/ml
37)	Aroclor 1254 (4)	8.683	4151807	421.018	ng/ml
38)	Aroclor 1254 (5)	9.023	4489863	460.256	ng/ml
39)	Aroclor 1254 (6)	9.278	1272246	458.291	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

3/27/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R019.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:22 pm
Operator : MJB/KAK
Sample : 0C26028-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:14:53 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:14:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
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

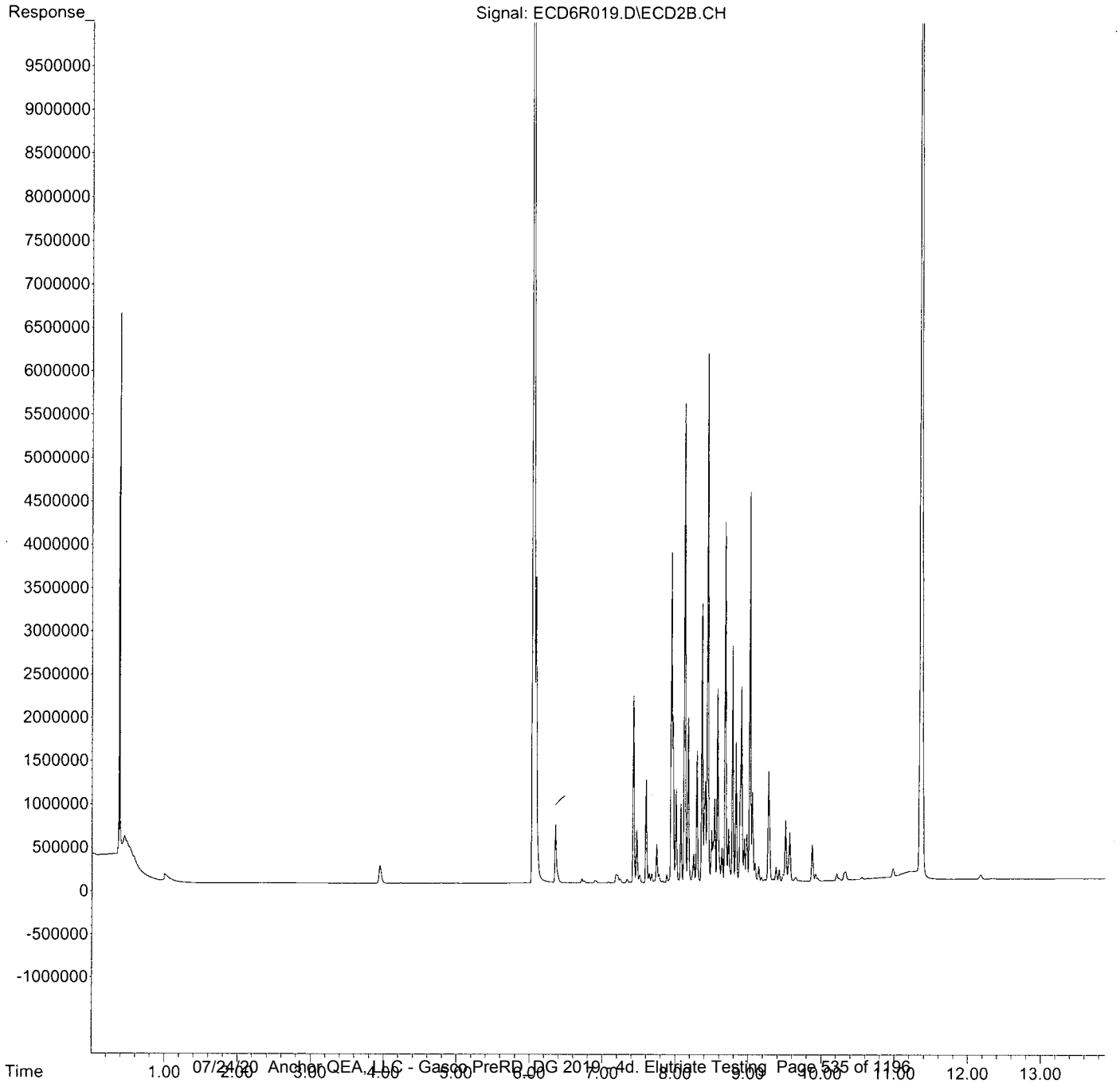
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R019.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:22 pm
Operator : MJB/KAK
Sample : 0C26028-CALC
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:14:53 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:14:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R020.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:39 pm
Operator : MJB/KAK
Sample : 0C26028-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:16:41 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:15:38 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R020.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:39 pm
Operator : MJB/KAK
Sample : 0C26028-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:16:41 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:15:38 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
48)	Aroclor 1262 (1)	8.784	4223816	518.324	ng/ml
49)	Aroclor 1262 (2)	9.094	5736003	527.253	ng/ml
50)	Aroclor 1262 (3)	9.294	4390197	533.007	ng/ml
51)	Aroclor 1262 (4)	9.569	8903721	516.360	ng/ml
52)	Aroclor 1262 (5)	9.876	5353245	519.382	ng/ml
53)	Aroclor 1262 (6)	10.555	2391988	516.805	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

(f)=RT Delta > 1/2 Window (m)=manual int.

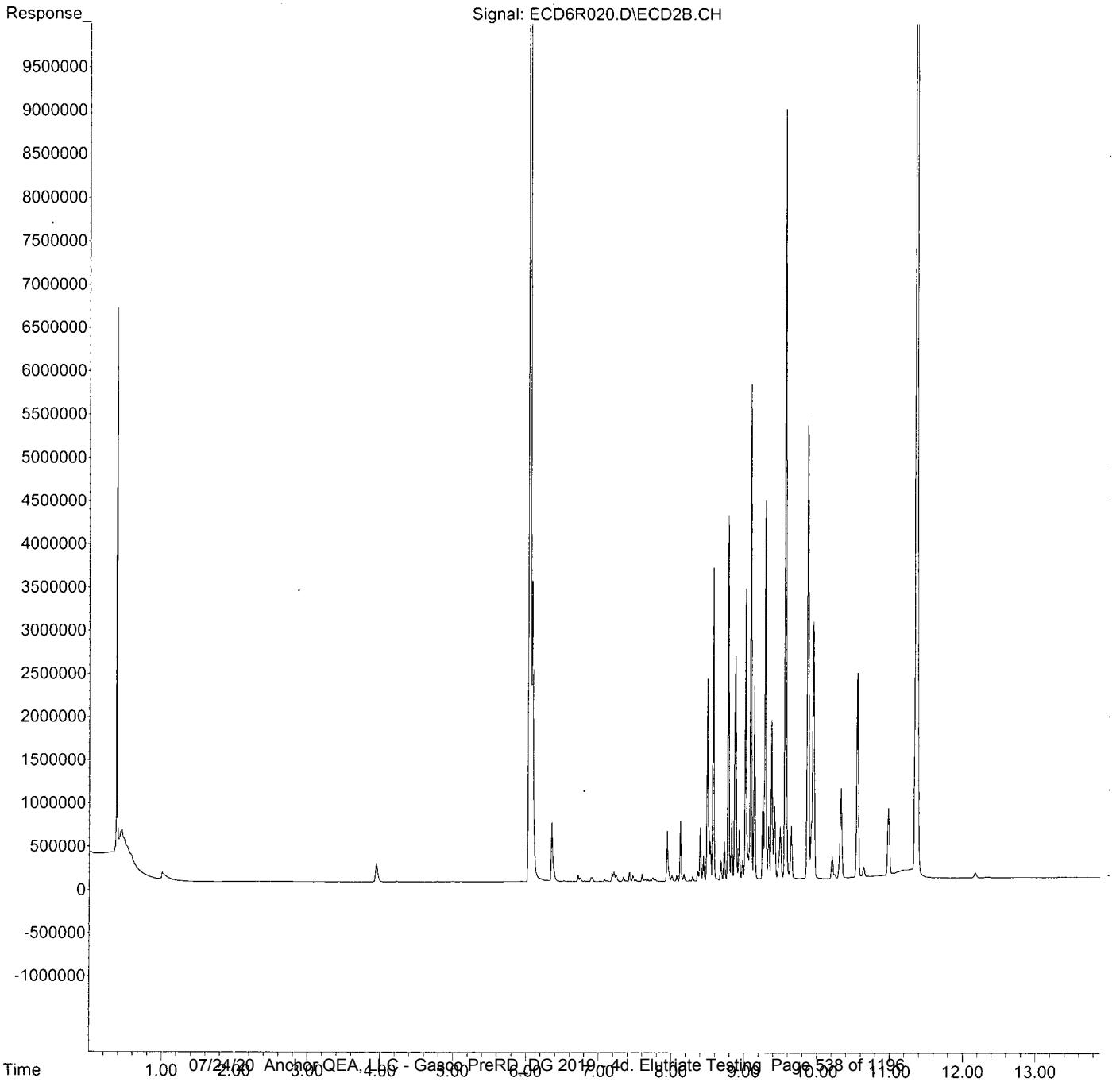
3/27/20

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R020.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:39 pm
Operator : MJB/KAK
Sample : 0C26028-CALD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:16:41 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:15:38 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R021.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:57 pm
Operator : MJB/KAK
Sample : 0C26028-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:18:26 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:17:22 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

3/27/20

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	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

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R021.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:57 pm
Operator : MJB/KAK
Sample : 0C26028-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:18:26 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:17:22 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
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
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)	9.340	2453336	587.532	ng/ml
56)	Aroclor 1268 (2)	9.877	10046372	574.247	ng/ml
57)	Aroclor 1268 (3)	9.956	8126930	551.231	ng/ml
58)	Aroclor 1268 (4)	10.211	6994097	571.843	ng/ml
59)	Aroclor 1268 (5)	10.556	2656366	544.156	ng/ml
60)	Aroclor 1268 (6)	10.983	18160246	567.017	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

3/27/20

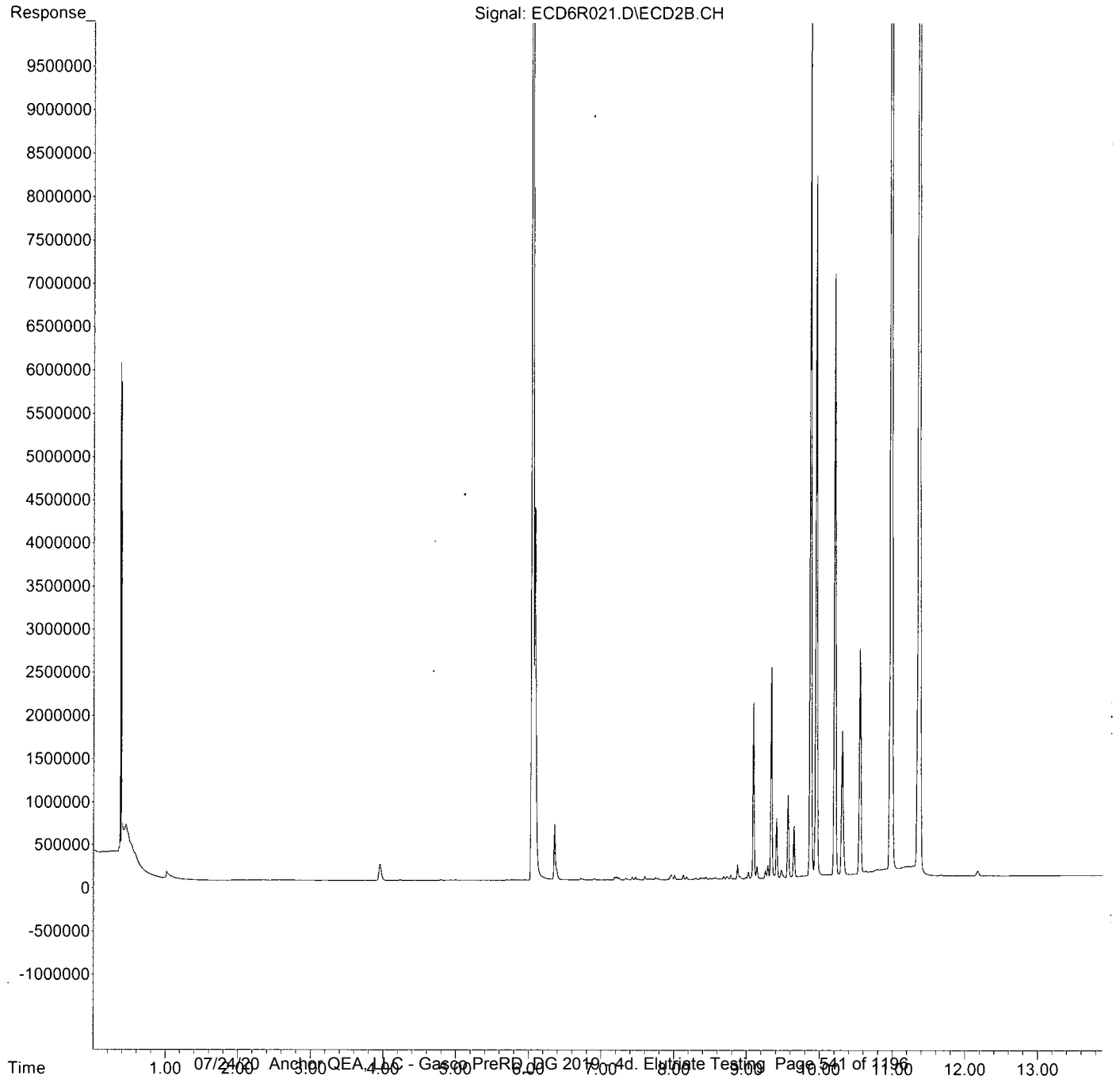
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : S:\DATA\0C26028\
Data File : ECD6R021.D
Signal(s) : ECD2B.CH
Acq On : 26 Mar 2020 5:57 pm
Operator : MJB/KAK
Sample : 0C26028-CALE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Mar 27 09:18:26 2020
Quant Method : T:\METHODS\RECD6_QUANTPCB_200326.M
Quant Title : PCB Data Analysis
QLast Update : Fri Mar 27 09:17:22 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX-1701
Signal Info : 30m x 0.32mm x 0.25um



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

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Batch 0050955
Sequence 0F02064 (A0E0669-01)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

JUN 0 8 2020

BATCH #: 0050955 (Water)

Prep Method: EPA 3510C (Neutral pH)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0050955-BLK1		QC	05/28/20 07:17	1100	5				100					
	0050955-BSD1		QC	05/28/20 07:17	1000	5	A20E095		100	100					
	0050955-BSD2		QC	05/28/20 07:17	1000	5	A20E019		100	100					
	0050955-BS1		QC	05/28/20 07:17	1000	5	A20E095		100	100					
	0050955-BS2		QC	05/28/20 07:17	1000	5	A20E019		100	100					
	A0E0669-01	H	8081B Pesticides + Add	05/28/20 07:17	1030	5				100	PDI-026SW-A-2 00521-01	custom, MDL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E143	11/09/20	DCM CHEM PROD. DY726-US

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E019	09/19/20	8081 OGC 9-42 Pesticide Spike
A20E095	09/10/20	Mix AB Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20E178	10/30/20	8082 PCB Surrogate Spike

Bottle Check: _____

Witness: _____

Prepared By: _____ Date _____

Reviewed By: MJB Date 6/3/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0050955 (Water)

Prep Method: EPA 3510C (Neutral pH)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
1	0050955-BLK1		QC	05/28/20 07:17	1000 1100	5				100		#		6	
2	0050955-BSD1		QC	05/28/20 07:17	1000	5	A20E095		100	100		#		6	
3	0050955-BSD2		QC	05/28/20 07:17	1000	5	A20E019		100	100		#		6	
4	0050955-BS1		QC	05/28/20 07:17	1000	5	A20E095		100	100		#		6	
5	0050955-BS2		QC	05/28/20 07:17	1000	5	A20E019		100	100		#		6	
6	A0E0669-01	G H	8081B Pesticides + Add	05/28/20 07:17	1000 1030	5				100	PDI-026SW-A-2 00521-01	custom, MDL #		6	

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20B017	08/01/20	Glass Wool
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E143	11/09/20	DCM CHEM PROD. DY726-US

AGJ AGJ

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E019	09/19/20	8081 OGC 9-42 Pesticide Spike
A20E095	09/10/20	Mix AB Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20E178	10/30/20	8082 PCB Surrogate Spike

AGJ

Bottle Check: JAG 5/28/2020

Witness: JAG 5/28/2020

= Exchanged 2mL to 2mL in hexane.

AGJ 5-28-20
Prepared By: Date

SCG 05/28/2020
Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0F02064** Instrument: **DUALECD3**

Date: **06/02/20 15:38** Calibration: **A0D1308**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0F02064-BKD1	Sediment	QC	QC				A20E203
2	0F02064-BKD2	Sediment	QC	QC				A20E203
3	0F02064-CCV1	Sediment	QC	QC				A20E232
4	0F02064-CCV2	Sediment	QC	QC				A20C358
5	0F02064-CCB1	Sediment	QC	QC				A20E115
6	0060013-BLK1	Sediment	QC	QC		0060013		
7	0060013-BS1	Sediment	QC	QC		0060013		
8	A0E0568-07RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
9	A0E0568-08RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
10	A0E0568-09RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
11	A0E0568-14RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
12	A0E0568-15RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
13	A0E0568-16RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
14	A0E0568-17RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
15	A0E0568-18RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
16	0F02064-CCV3	Sediment	QC	QC				A20E233
17	0F02064-CCV4	Sediment	QC	QC				A20C359
18	0F02064-CCB2	Sediment	QC	QC				A20E115
19	A0E0568-19RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
20	A0E0568-20RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
21	A0E0568-21RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
22	A0E0568-28RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
23	A0E0568-29RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
24	A0E0568-30RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	06/03/20	0060013		
25	0060013-DUP1	Sediment	QC	QC		0060013		
26	0050955-BLK1	Water	QC	QC		0050955		
27	0050955-BS1	Water	QC	QC		0050955		
28	0050955-BSD1	Water	QC	QC		0050955		
29	0F02064-CCV5	Sediment	QC	QC				A20E232
30	0F02064-CCV6	Sediment	QC	QC				A20C358
31	0F02064-CCB3	Sediment	QC	QC				A20E115
32	0050955-BS2	Water	QC	QC		0050955		
33	0050955-BSD2	Water	QC	QC		0050955		
34	A0E0669-01	Water	8081B Pesticides + Add	Anchor QEA, LLC	06/05/20	0050955		
35	0F02064-CCV7	Sediment	QC	QC				A20E233
36	0F02064-CCV8	Sediment	QC	QC				A20C359
37	0F02064-CCB4	Sediment	QC	QC				A20E115
38	0F02064-IBL1	Sediment	QC	QC				

Comments:

Data Entered By/Date: MB 6/3/20

Data Reviewed By/Date: [illegible] 6/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 16:26
Operator : MJB
Sample : 0F02064-BKD1
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 02 16:40:35 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RTB.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.680	765231	NoCal	ng/mL
2)	Endrin	8.051	51963442	NoCal	ng/mL
3)	4,4'-DDD	8.102	12491708	NoCal	ng/mL
4)	4,4'-DDT	8.300	98475145	NoCal	ng/mL
5)	Endrin Aldehyde	8.500	6812639	NoCal	ng/mL
6)	Endrin Ketone	8.999	17994876	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.364	893269	NoCal	ng/mL
9)	Endrin [2C]	8.733	34828259	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.781	11183893	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.120	5075658	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.006	58846268	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.712	11904281	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

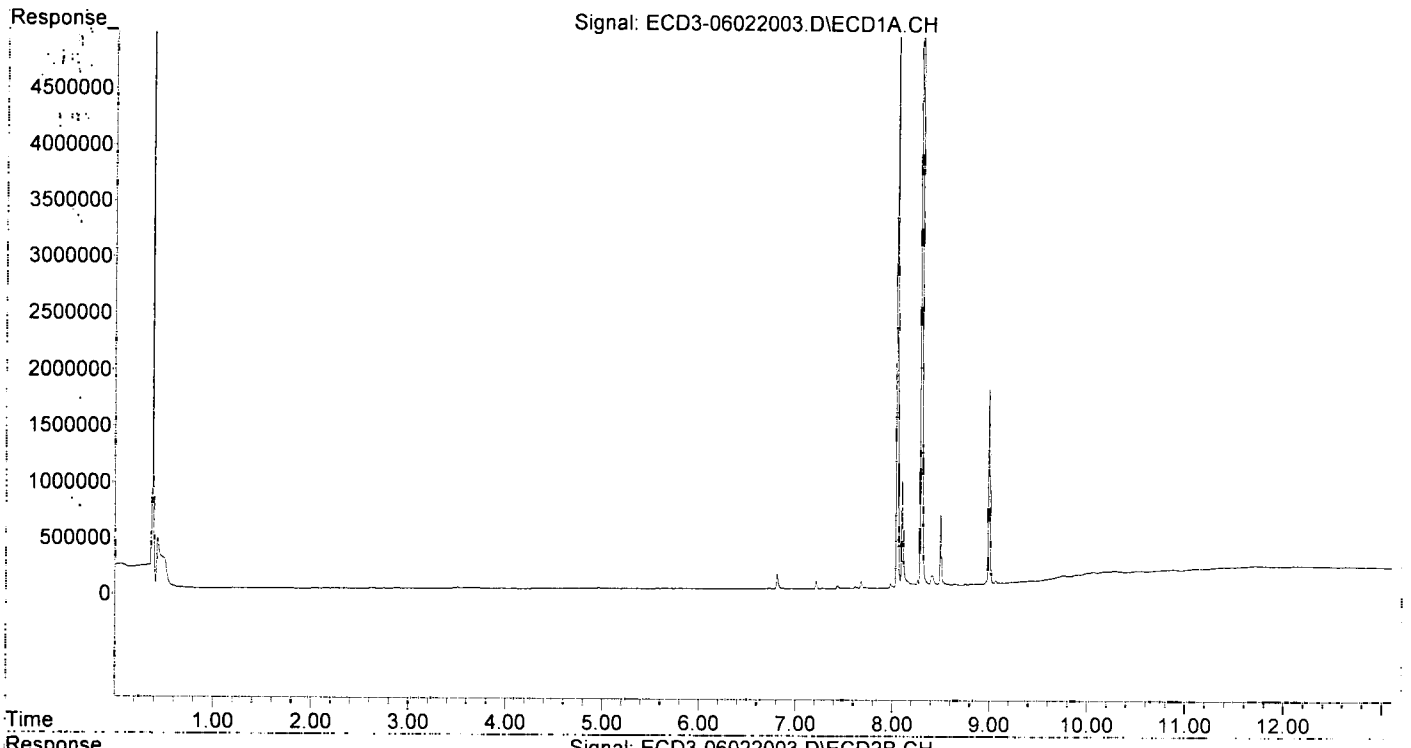
Failed. Maintenance Performed.

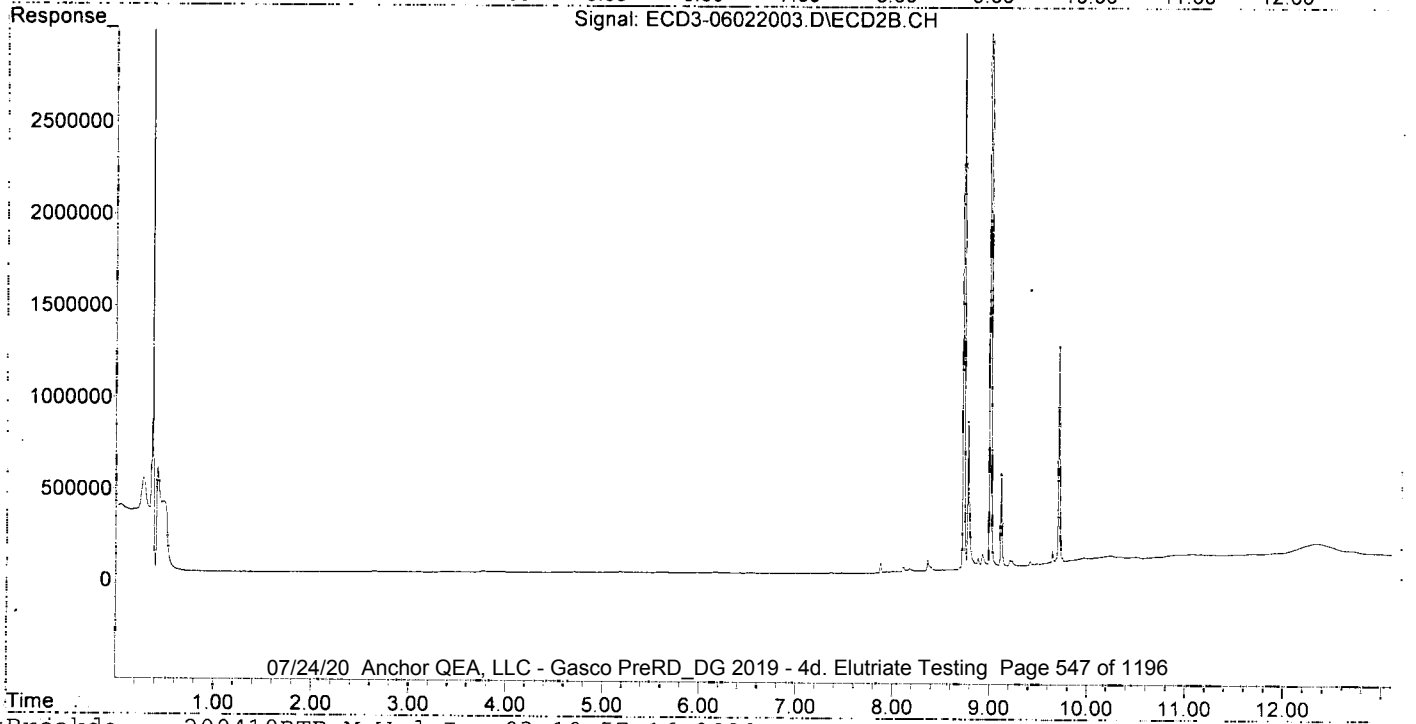
MJB 6/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 16:26
Operator : MJB
Sample : 0F02064-BKD1
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 02 16:40:35 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RTB.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0F02064 BKD2
Data File: ECD3-06022005.D

First Column Area Counts		Percent Breakdown	
DDE	734787		
DDD	9085996		
DDT	107407712	**8.38**	**PASS**
Endrin	67118364	**14.53**	**PASS**
Endrin Aldehyde	2262208		
Endrin Ketone	9149696		

Second Column Area Counts		Percent Breakdown	
DDE	908429		
DDD	8946988		
DDT	65642419	**13.05**	**PASS**
Endrin	44807206	**14.87**	**PASS**
Endrin Aldehyde	1687394		
Endrin Ketone	6136706		

Breakdown must be less than 15% to accept sample data.

MJB
6/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 17:22
Operator : MJB
Sample : 0F02064-BKD2
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 02 17:38:07 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RTB.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.665	734787	NoCal	ng/mL
2)	Endrin	8.037	67118364	NoCal	ng/mL
3)	4,4'-DDD	8.088	9085996	NoCal	ng/mL
4)	4,4'-DDT	8.286	107407712	NoCal	ng/mL
5)	Endrin Aldehyde	8.486	2262208	NoCal	ng/mL
6)	Endrin Ketone	8.985	9149696	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.350	908429	NoCal	ng/mL
9)	Endrin [2C]	8.719	44807206	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.767	8946988	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.105	1687394	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.993	65642419	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.698	6136706	NoCal	ng/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

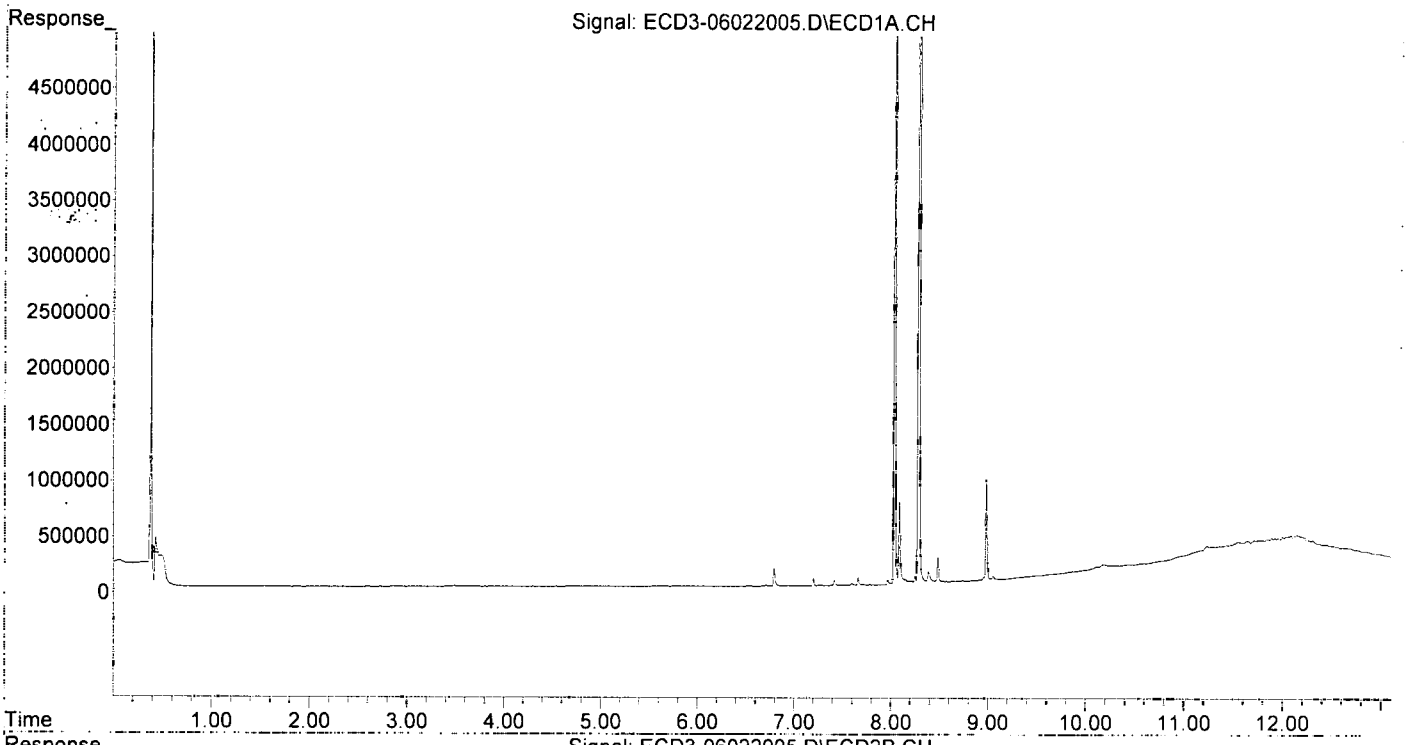
cut ≈ 6" off guard column.

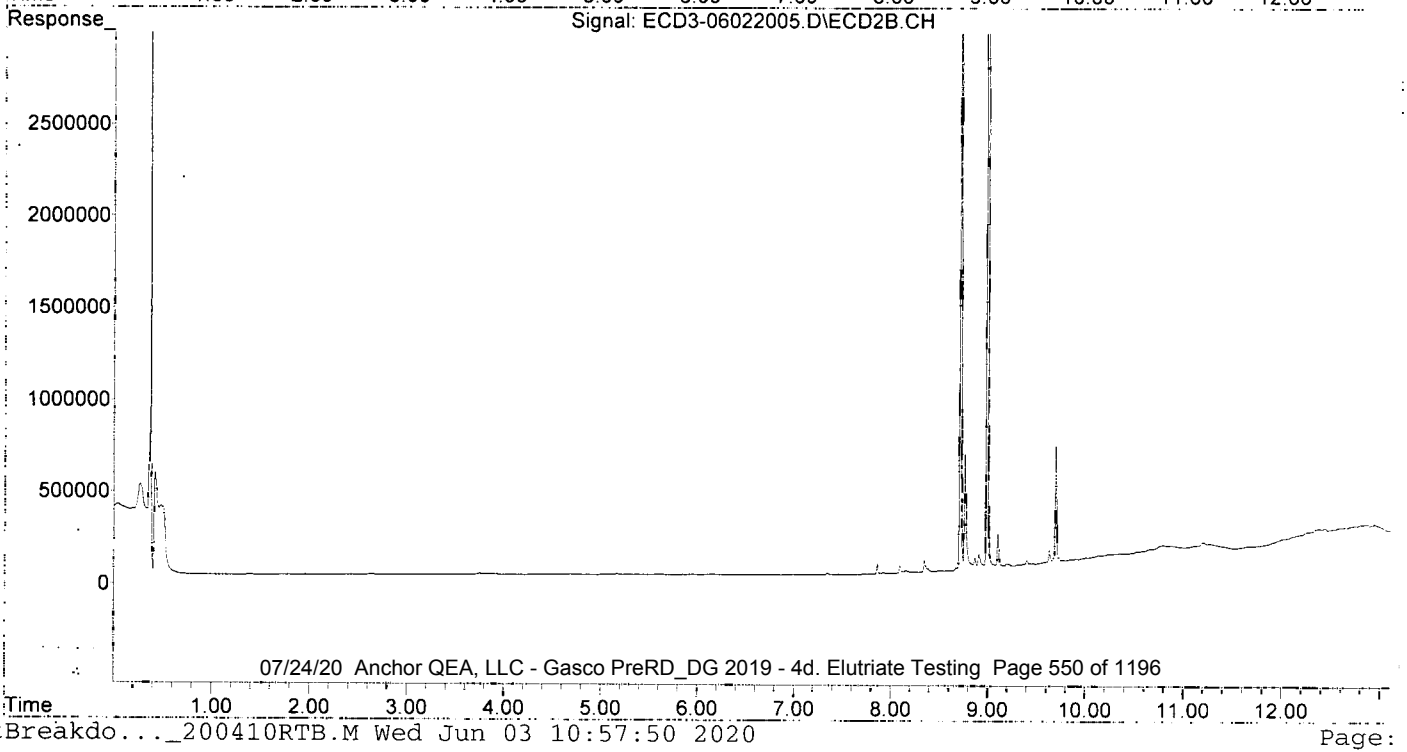
MJB 6/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 17:22
Operator : MJB
Sample : 0F02064-BKD2
Misc : A20E203
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 02 17:38:07 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410RTB.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 17:44
Operator : MJB
Sample : 0F02064-CCV1
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:37 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

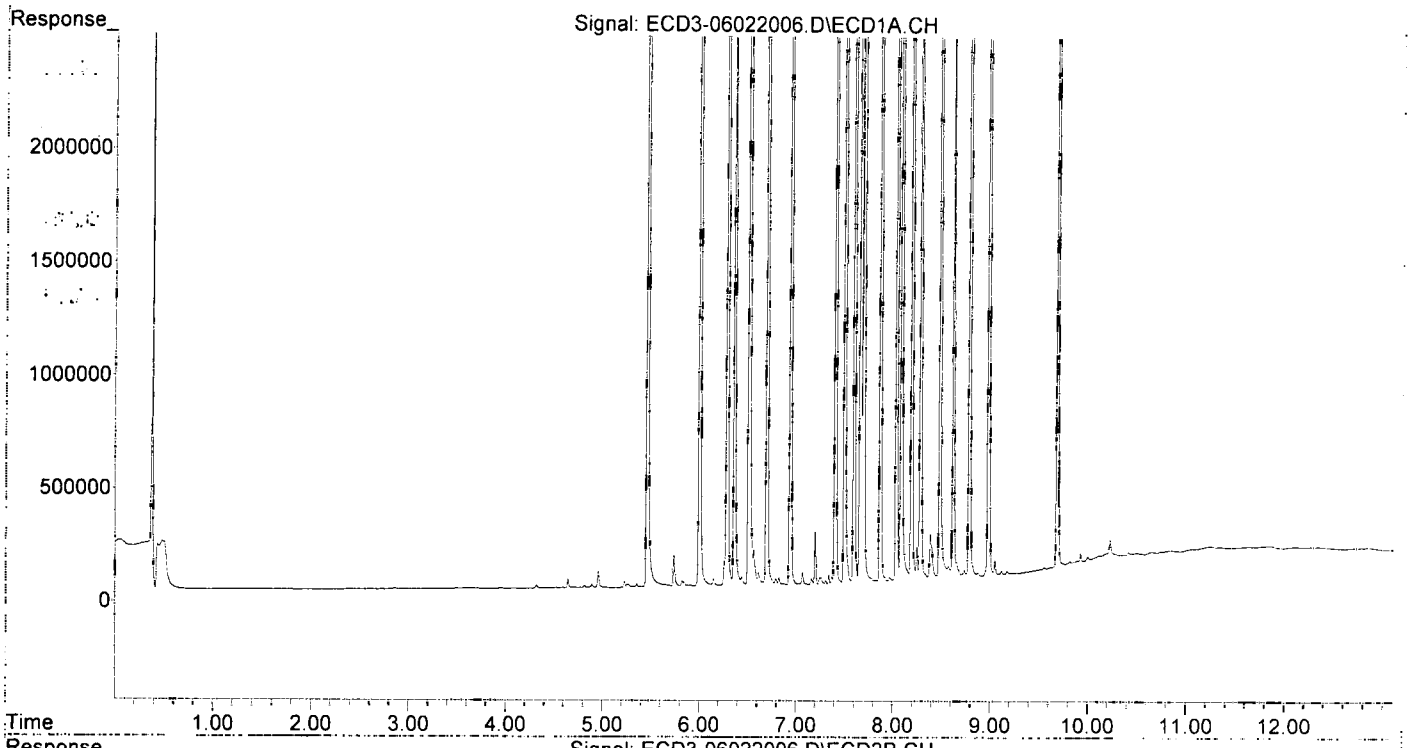
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.465	5.980	8050823	5856060	54.358	52.794	
22)	S DCBP (S)	9.692	10.565	6082026	3947250	55.247	59.820	
	Target Compounds							
2)	a-BHC	6.005	6.588	11793817	8360762	58.300	53.262	
3)	g-BHC	6.290	6.907	9862726	7336187	57.115	54.453	
4)	b-BHC	6.365	6.973	3898148	3032720	57.139	49.380	
5)	Heptachlor	6.702	7.283	9434933	6301020	57.619	55.661	
6)	d-BHC	6.515	7.229	8916678	6736268	63.524	55.109	
7)	Aldrin	6.945	7.550	9716878	7228299	57.962	54.390	
8)	Heptachlo...	7.408	7.991	8668614	6359853	55.432	54.038	
9)	trans-Chl...	7.504	8.131	8880232	6567495	56.433	54.456	
10)	cis-Chlor...	7.602	8.239	8640520	6198735	55.046	53.517	
11)	Endosulfa...	7.700	8.289	7976797	5897030	55.579	54.837	
12)	4,4'-DDE	7.665	8.348	8687788	6351345	60.226	55.156	
13)	Dieldrin	7.873	8.491	9047107	6591775	56.294	55.049	
14)	Endrin	8.039	8.719	7232107	4920212	58.625	56.914	
15)	4,4'-DDD	8.089	8.766	7020388	4998446	57.826	52.969	
16)	Endosulfa...	8.196	8.868	7108245	5029746	58.721	54.839	
17)	4,4'-DDT	8.287	8.994	5717230	3607603	58.383	58.685	
18)	Endrin Al...	8.488	9.106	5784833	4188997	55.814	52.724	
19)	Endosulfa...	8.792	9.298	6659748	4881688	55.286	57.993	
20)	Methoxychlor	8.625	9.475	2876336	1916907	62.071	64.990	
21)	Endrin Ke...	8.988	9.699	8102268	5348478	56.247	55.902	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.847	0.000	15739	0	BelowCal	N.D.	
25)	Oxychlordane	7.343	7.904	38833	16710	0.100	3277.568	#
26)	2,4'-DDE	7.408	8.131	8668614	6567495	93.234	88.288	
27)	trans-Non...	7.602	8.185	8640520	48522	59.815	0.220	#
28)	2,4'-DDD	0.000	8.491	0	6591775	N.D.	101.982	#
29)	2,4'-DDT	7.971	8.719	14127	4920212	0.188	91.727	#
30)	cis-Nonac...	8.089f	8.766	7020388	4998446	45.339	43.471	
31)	Mirex	8.741	9.699	28571	5348478	7125.595	80.362	#
32)	Chlordane...	7.700	8.348	7976797	6351345	451.931	439.016	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	8.391f	9.106	194571	4188997	36.569	1157.950	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.674	0	16982	N.D.	15.163	#
37)	Toxaphene...	8.089	0.000	7020388	0	4659.028	N.D.	#
38)	Toxaphene...	8.391f	9.106f	194571	4188997	62.556	1930.106	#
39)	Toxaphene...	8.662	9.106f	64443	4188997	16.987	1272.919	#
40)	Toxaphene...	8.881	9.298	14578	4881688	6.190	2528.595	#
41)	Toxaphene...	8.988f	9.699	8102268	5348478	2670.984	2642.537	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

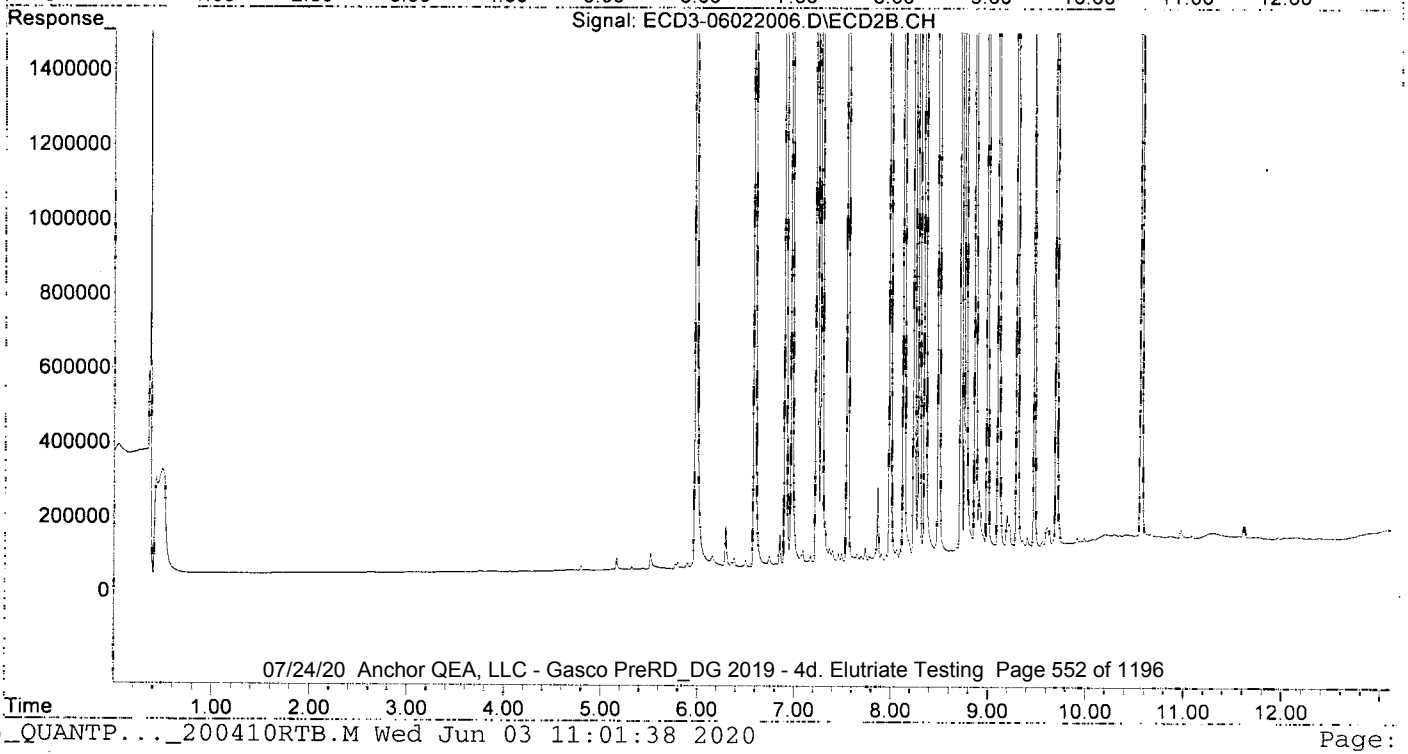
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 17:44
Operator : MJB
Sample : 0F02064-CCV1
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:37 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:01
Operator : MJB
Sample : 0F02064-CCV2
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

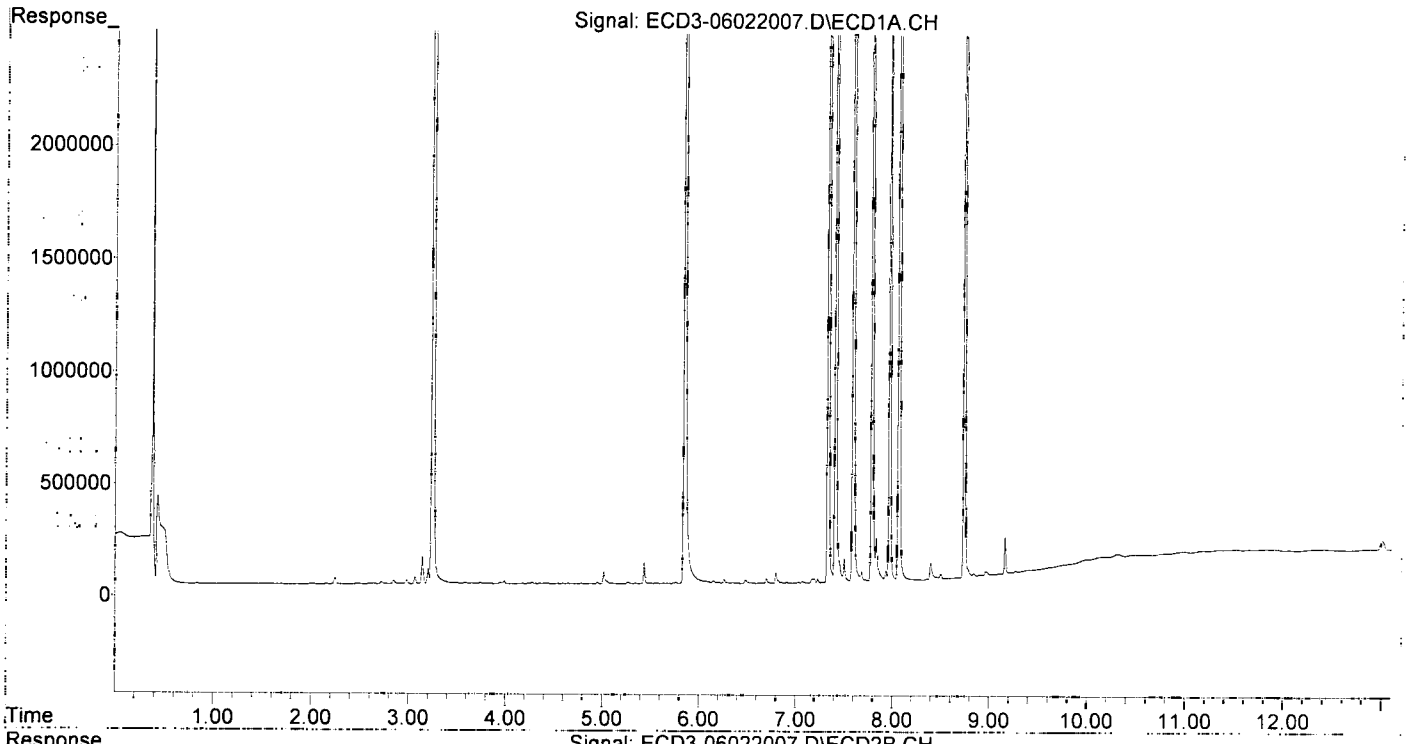
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.434f	0.000	93680	0	0.633	N.D.	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.262f	0.000	16305	0	0.094	N.D.	#
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	6.701	7.284	20895	14737	0.128	0.130	
6)		d-BHC	6.484f	7.242	13521	3933	0.096	0.032	#
7)		Aldrin	6.907f	7.541	6334	3141	0.038	0.024	
8)		Heptachlo...	7.412	8.026f	5000218	36225	31.974	0.308	#
9)		trans-Chl...	7.503	8.126	104958	4009143	0.667	33.243	#
10)		cis-Chlor...	7.593	8.239	7565628	259870	48.198	2.244	#
11)		Endosulfa...	7.683	8.304	43152	26231	0.301	0.244	
12)		4,4'-DDE	7.683	0.000	43152	0	0.299	N.D.	#
13)		Dieldrin	7.857	8.501	53911	3378168	0.335	28.212	#
14)		Endrin	8.066f	8.726	8210085	2488482	66.552	28.785	#
15)		4,4'-DDD	8.066f	8.764	8210085	6139192	67.626	65.057	
16)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)		4,4'-DDT	0.000	8.975	0	5186	N.D.	0.166	#
18)		Endrin Al...	8.500	0.000	22122	0	BelowCal	N.D.	
19)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.962f	9.691	16961	3659610	0.118	38.250	#
23)		Hexachlor...	3.247	3.661	9143150	7920564	53.964	51.019	
24)		Hexachlor...	5.847	6.451	6850924	4842691	50.618	45.105	
25)		Oxychlordane	7.335	7.920	6891797	5056264	52.810	51.841	
26)		2,4'-DDE	7.412	8.126	5000218	4009143	54.342	52.891	
27)		trans-Non...	7.593	8.196	7565628	5699263	52.389	52.845	
28)		2,4'-DDD	7.787	8.501	4383308	3378168	53.412	51.269	
29)		2,4'-DDT	7.970	8.726	3722174	2488482	49.445	46.393	
30)		cis-Nonac...	8.066	8.764	8210085	6139192	52.990	53.665	
31)		Mirex	8.739	9.691	5072194	3659610	51.238	54.448	
32)		Chlordane...	7.683f	8.304f	43152	26231	2.445	1.813	
33)		Chlordane...	7.834f	0.000	191672	0	9.250	N.D.	#
34)		Chlordane...	8.396f	0.000	74215	0	13.948	N.D.	#
35)		Chlordane...	3.987	0.000	11335	0	NoCal	N.D.	
36)		Toxaphene...	7.787	8.726f	4383308	2488482	5265.771	2221.896	#
37)		Toxaphene...	8.066f	0.000	8210085	0	5448.562	N.D.	#
38)		Toxaphene...	8.396f	0.000	74215	0	23.860	N.D.	#
39)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
40)		Toxaphene...	8.895	0.000	1480	0	0.628	N.D.	#
41)		Toxaphene...	8.962	9.691	16961	3659610	5.591	1808.114	#
42)		Toxaphene...	3.987	0.000	11335	0	NoCal	N.D.	

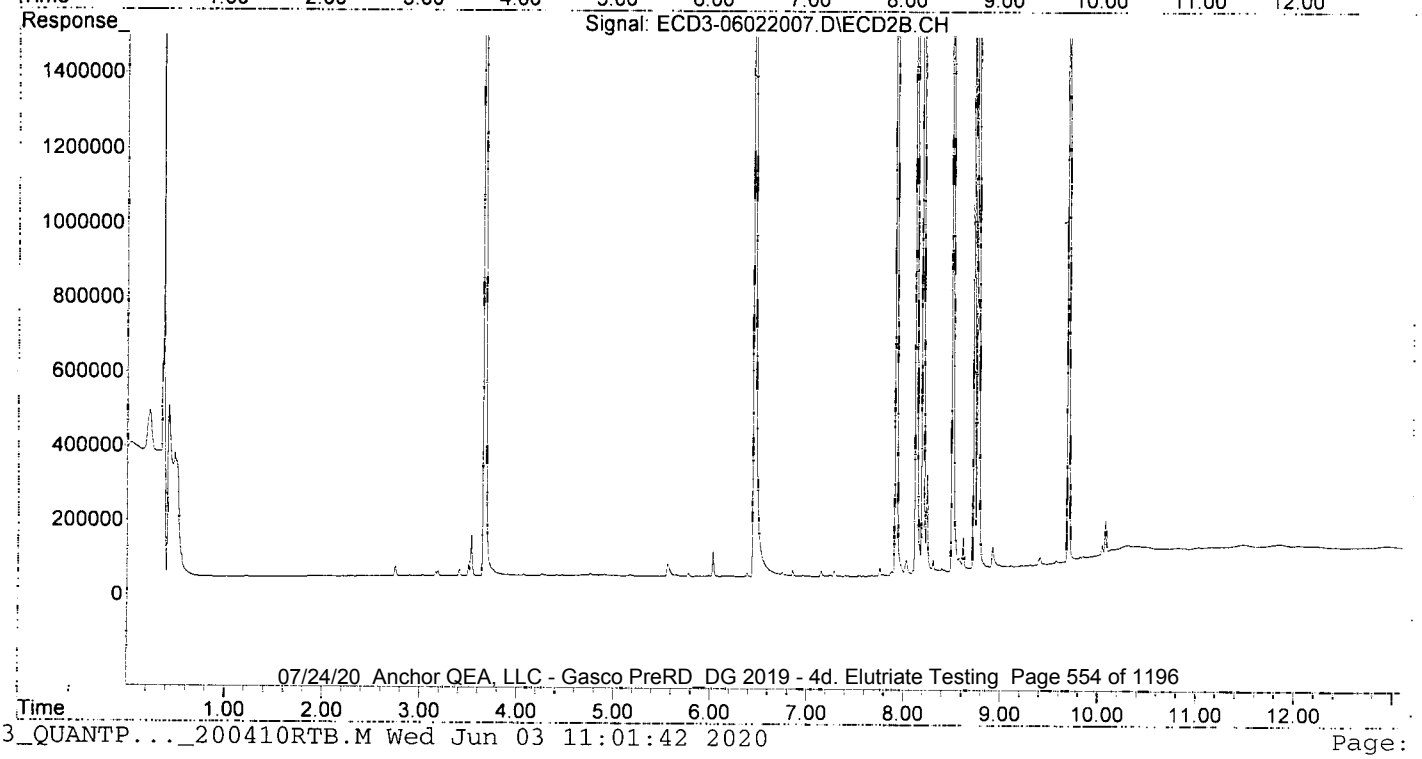
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:01
Operator : MJB
Sample : 0F02064-CCV2
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:18
Operator : MJB
Sample : 0F02064-CCB1
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

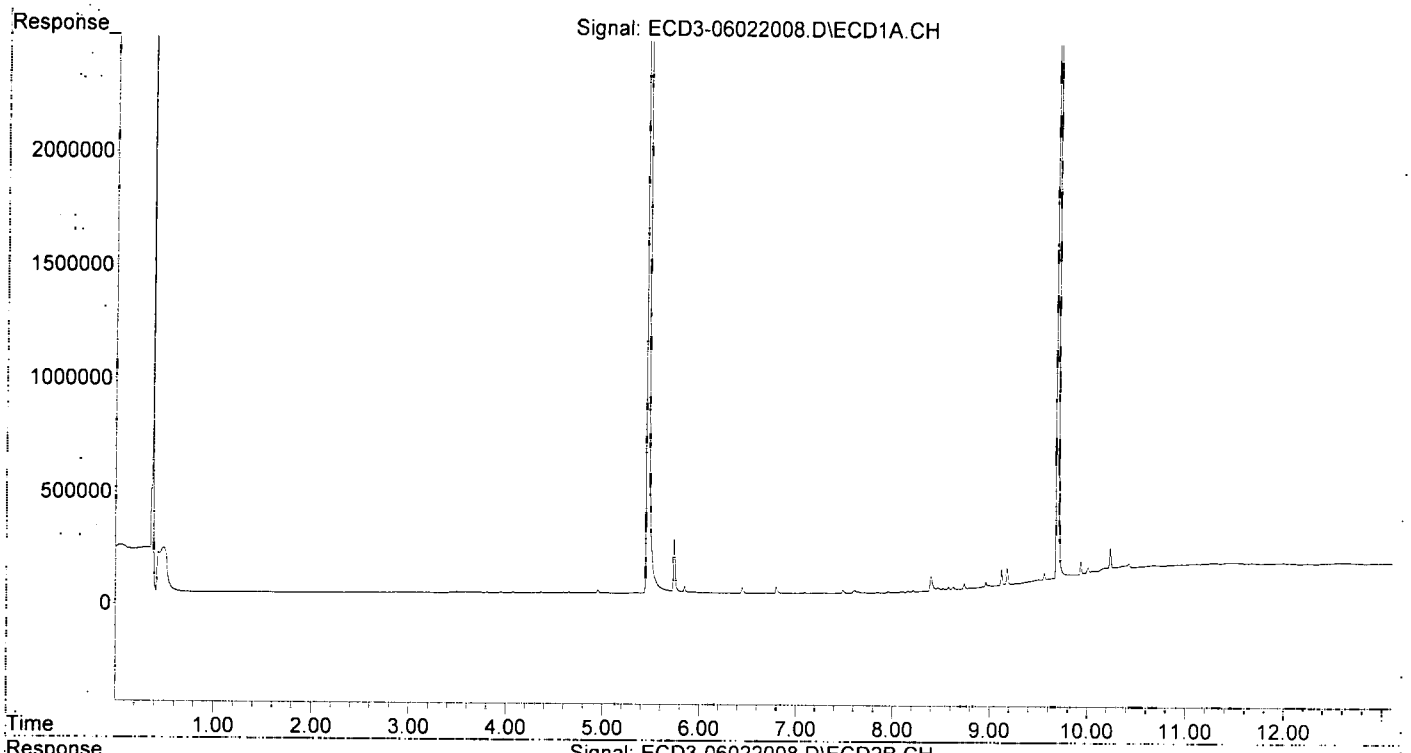
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.464	5.982	14412034	9425564	97.308	86.663	
22)	S	DCBP (S)	9.692	10.567	10902414	6958691	99.071	107.993	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	0.000	7.570f	0	10418	N.D.	0.078	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.487	8.168f	14242	6884	0.091	0.057	
10)		cis-Chlor...	7.610	0.000	11131	0	0.071	N.D.	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	7.650	0.000	5380	0	0.037	N.D.	#
13)		Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)		Endrin	0.000	8.729	0	4959	N.D.	0.057	#
15)		4,4'-DDD	0.000	8.769	0	827	N.D.	0.009	#
16)		Endosulfa...	8.215	8.882	8013	3172	0.066	0.035	#
17)		4,4'-DDT	0.000	9.016f	0	8460	N.D.	0.225	#
18)		Endrin Al...	8.468	9.089	13896	8524	BelowCal	3407.102	
19)		Endosulfa...	8.794	9.276f	1709	4461	0.014	0.053	#
20)		Methoxychlor	8.627	0.000	10334	0	0.290	N.D.	#
21)		Endrin Ke...	8.995	9.699	5232	6368	0.036	0.067	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.848	0.000	27053	0	0.000	N.D.	#
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)		trans-Non...	7.610	8.168f	11131	6884	BelowCal	1953.501	
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	7.953	8.729	6101	4959	0.081	0.092	
30)		cis-Nonac...	0.000	8.769	0	827	N.D.	2549.553	#
31)		Mirex	8.739	9.699	23040	6368	7125.651	3567.435	#
32)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	8.396f	9.089	64362	8524	12.096	BelowCal	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	0.000	8.703	0	1631	N.D.	1.456	#
37)		Toxaphene...	0.000	9.016	0	8460	N.D.	6.202	#
38)		Toxaphene...	8.396f	9.089	64362	8524	20.693	3.928	#
39)		Toxaphene...	8.627f	9.152	10334	1207	BelowCal	BelowCal	
40)		Toxaphene...	0.000	9.348f	0	7552	N.D.	0.906	#
41)		Toxaphene...	8.961	9.699	19470	6368	6.419	3.146	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

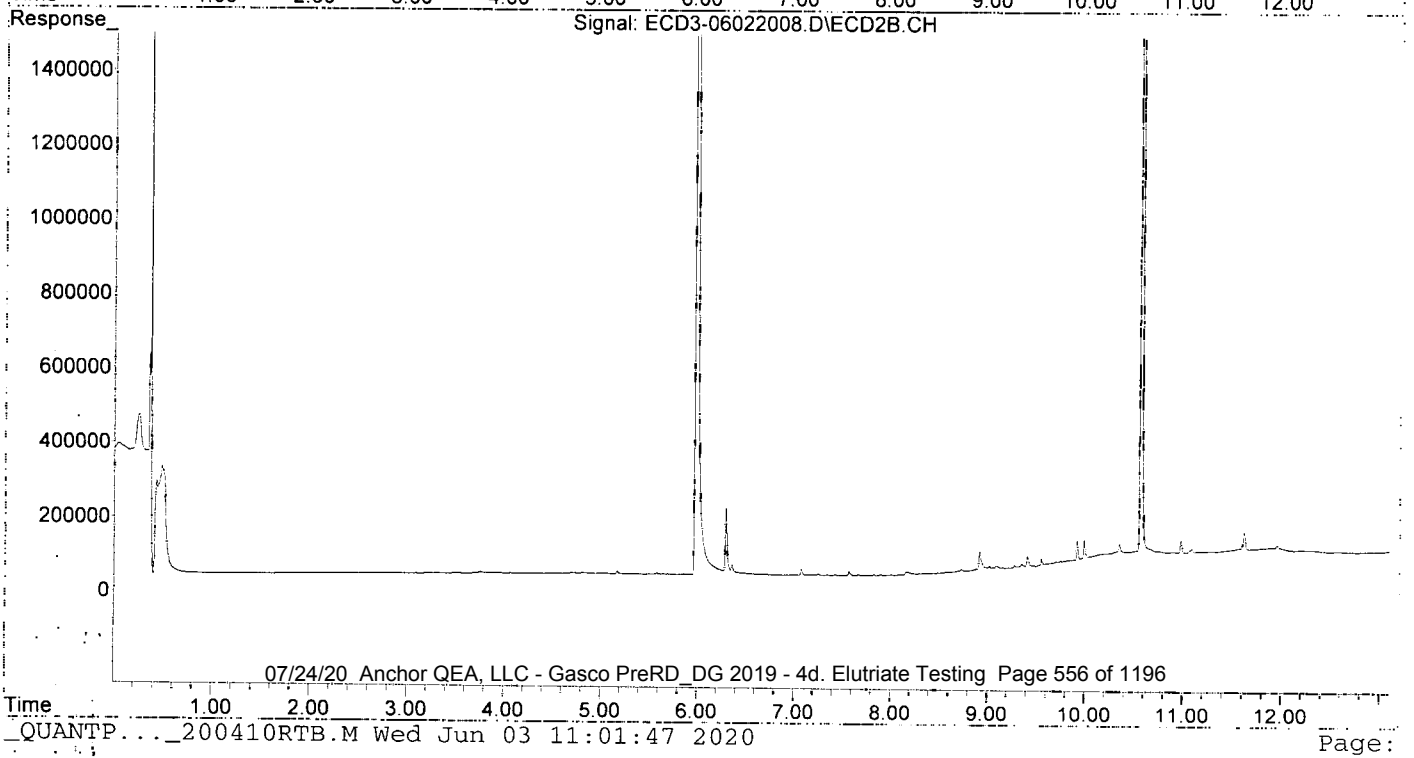
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:18
Operator : MJB
Sample : 0F02064-CCB1
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:36
Operator : MJB
Sample : 0060013-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

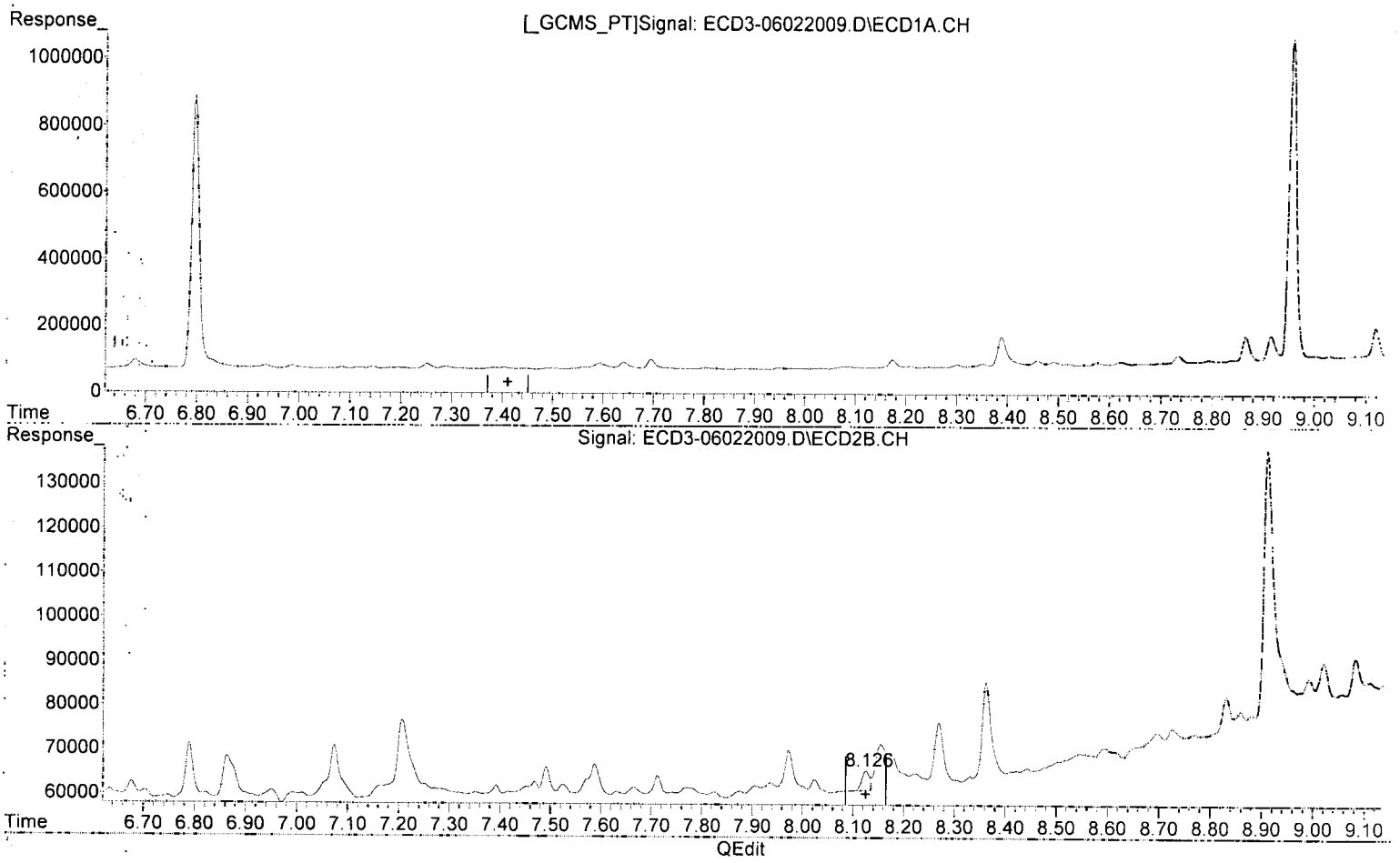
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.464	5.981	5379796	3942040	36.324	35.153	
22)	S DCBP (S)	9.690	10.567	5145091	2902064	46.714	43.596	
	Target Compounds							
2)	a-BHC	5.998	0.000	49017	0	0.242	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.350	0.000	16552	0	0.243	N.D.	#
5)	Heptachlor	6.680f	0.000	23845	0	0.146	N.D.	#
6)	d-BHC	6.535f	7.207f	5308	17186	0.038	0.141	#
7)	Aldrin	6.934	7.588f	9066	6874	0.054	0.052	
8)	Heptachlo...	0.000	7.973	0	9940	N.D.	0.084	#
9)	trans-Chl...	0.000	8.126	0	4253	N.D.	0.035	#
10)	cis-Chlor...	7.593	8.269f	16678	13654	0.106	0.118	
11)	Endosulfa...	7.695	8.269	28303	13654	0.197	0.127	
12)	4,4'-DDE	7.641f	8.362	19608	21250	0.136	0.185	
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	0.000	8.726	0	3526	N.D.	0.041	#
15)	4,4'-DDD	8.087	8.769	5509	1025	0.045	0.011	#
16)	Endosulfa...	8.210	8.859	5421	3416	0.045	0.037	
17)	4,4'-DDT	8.302	8.991	7645	6815	0.182	0.195	
18)	Endrin Al...	8.491	9.111	11587	2445	BelowCal	3407.178	
19)	Endosulfa...	8.794	9.275f	6377	5428	0.053	0.064	
20)	Methoxychlor	8.622	9.473	7779	17245	0.228	0.713	#
21)	Endrin Ke...	9.002	9.702	12491	19831	0.087	0.207	#
23)	Hexachlor...	3.245	3.639f	18991	116739	2108.592	0.503	#
24)	Hexachlor...	5.847	6.469	16441	57227	BelowCal	0.281	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	0.000	8.126	0	4253	N.D.	~~2144.928~~ #	
27)	trans-Non...	7.593	8.177	16678	7375	BelowCal	1953.496	
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	7.948f	8.726	3557	3526	0.047	0.066	
30)	cis-Nonac...	8.087f	8.769	5509	1025	BelowCal	2549.551	
31)	Mirex	8.734	9.702	22377	19831	7125.658	3567.236	#
32)	Chlordane...	7.695f	8.362f	28303	21250	1.604	1.469	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	8.351	9.111	9024	2445	1.696	BelowCal	#
35)	Chlordane...	3.940f	3.934	15920	7593	NoCal	NoCal	
36)	Toxaphene...	0.000	8.696	0	3543	N.D.	3.163	#
37)	Toxaphene...	8.087	9.021	5509	9579	3.656	7.022	#
38)	Toxaphene...	8.388f	9.083	89560	8545	28.794	3.937	#
39)	Toxaphene...	8.622f	9.147	7779	2126	BelowCal	BelowCal	
40)	Toxaphene...	8.915f	0.000	75619	0	32.108	N.D.	#
41)	Toxaphene...	8.955	9.702	964582	19831	317.983	9.798	#
42)	Toxaphene...	0.000	3.934	0	7593	N.D.	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:36
Operator : MJB
Sample : 0060013-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

0.000min 0.000 ng/mL

response 0

MJB 6/2/20

(26) 2,4'-DDE #2

8.126min 2144.928 ng/mL Q-DEV

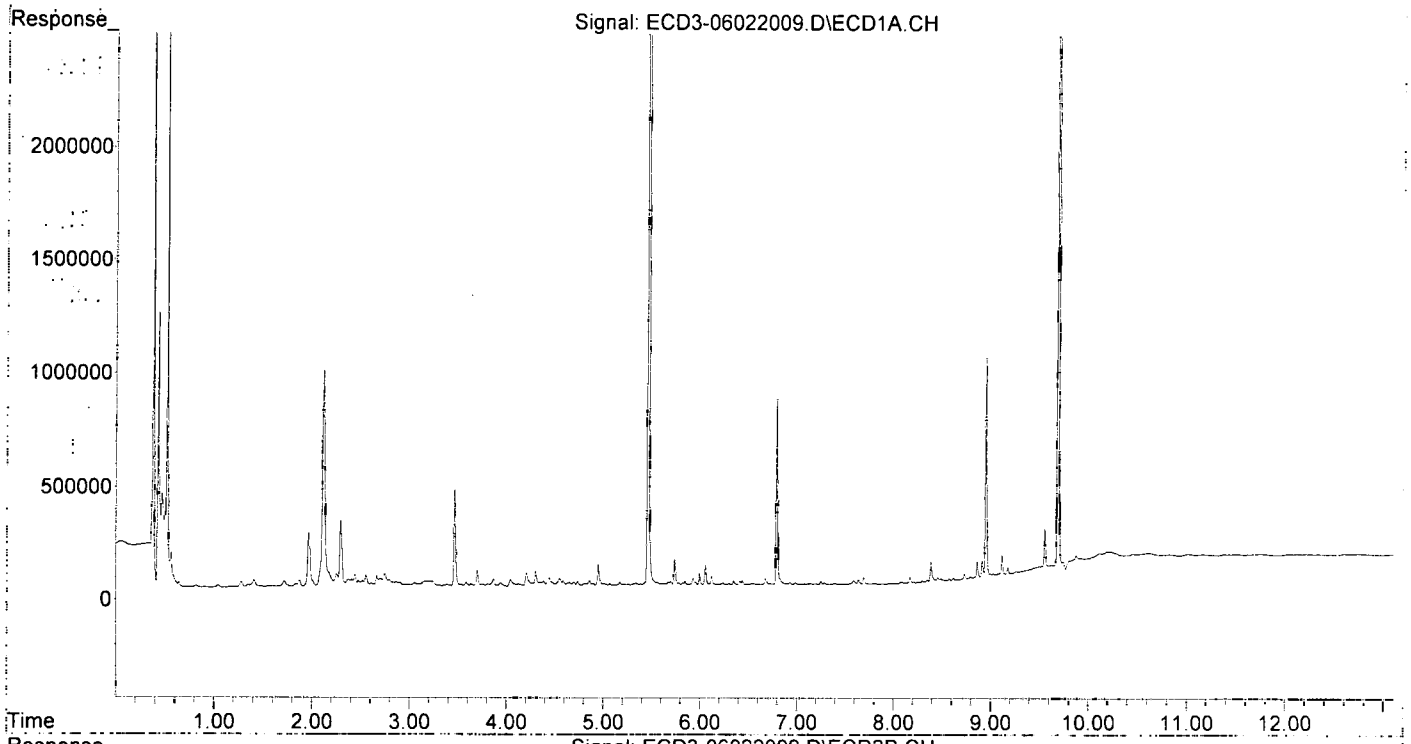
response 4283

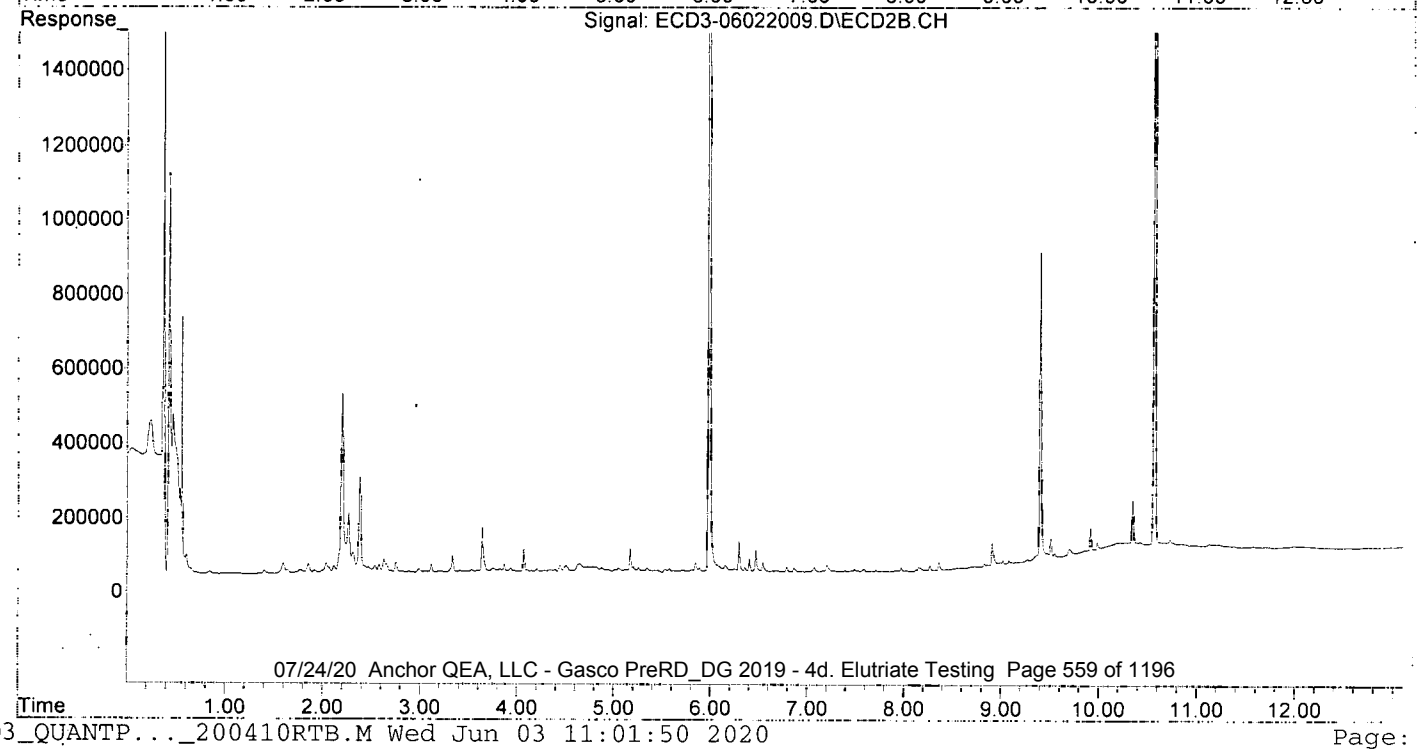
(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 15:54:30 2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:36
Operator : MJB
Sample : 0060013-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:53
Operator : MJB
Sample : 0060013-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

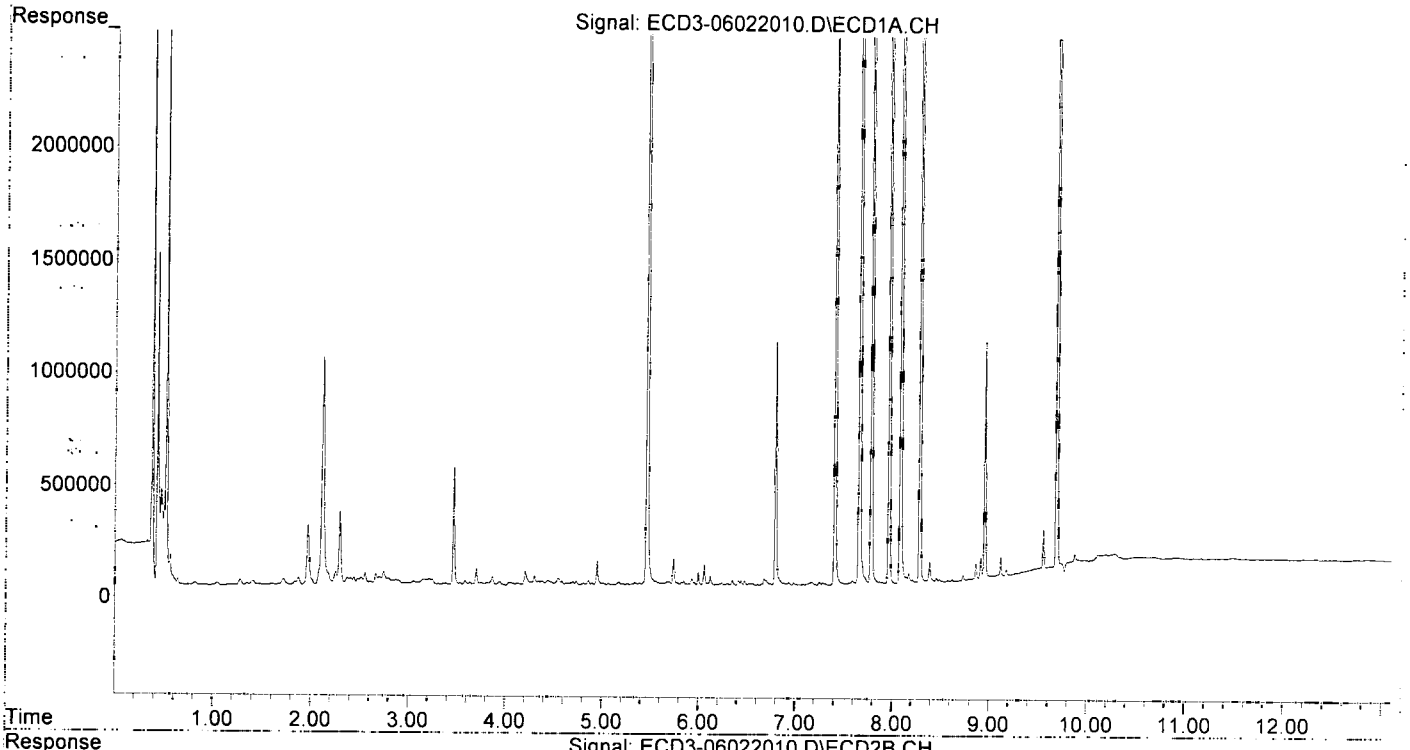
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.464	5.982	5772630	4144386	38.976	37.002	
22)	S DCBP (S)	9.690	10.566	5067812	2906846	46.010	43.670	
	Target Compounds							
2)	a-BHC	5.998	0.000	54497	0	0.269	N.D.	#
3)	g-BHC	6.297	0.000	6572	0	0.038	N.D.	#
4)	b-BHC	6.350	0.000	20625	0	0.302	N.D.	#
5)	Heptachlor	6.700	0.000	21903	0	0.134	N.D.	#
6)	d-BHC	6.476f	7.207f	16236	18412	0.116	0.151	
7)	Aldrin	6.934	7.586f	12173	9300	0.073	0.070	
8)	Heptachlo...	7.409	7.974	4536152	13241	29.007	0.113	#
9)	trans-Chl...	7.521	8.125	5802	3443744	0.037	28.554	#
10)	cis-Chlor...	7.593	8.267f	16867	19869	0.107	0.172	#
11)	Endosulfa...	7.662f	8.267f	7519311	19869	52.391	0.185	#
12)	4,4'-DDE	7.662	8.348	7519311	5591050	52.126	48.554	
13)	Dieldrin	7.874	8.500	8072	3462931	0.050	28.920	#
14)	Endrin	0.000	8.725	0	3332683	N.D.	38.550	#
15)	4,4'-DDD	8.085	8.766	6561957	4651735	54.050	49.295	
16)	Endosulfa...	8.173f	8.828f	42328	21821	0.350	0.238	
17)	4,4'-DDT	8.285	8.993	6047951	3862110	61.362	62.376	
18)	Endrin Al...	8.491	9.116	10584	3974	BelowCal	3407.159	
19)	Endosulfa...	8.795	9.295	6182	2927	0.051	0.035	
20)	Methoxychlor	8.622	9.472	7687	11525	0.226	0.491	#
21)	Endrin Ke...	9.001	9.704	12417	28521	0.086	0.298	#
23)	Hexachlor...	3.245	3.640f	26855	137353	2108.547	0.629	#
24)	Hexachlor...	5.847	6.469	13811	64261	BelowCal	0.346	
25)	Oxychlordane	0.000	7.879f	0	10276	N.D.	3277.633	#
26)	2,4'-DDE	7.409	8.125	4536152	3443744	49.357	45.233	
27)	trans-Non...	7.593	0.000	16867	0	BelowCal	N.D.	
28)	2,4'-DDD	7.783	8.500	4696408	3462931	57.225	52.585	
29)	2,4'-DDT	7.968	8.725	5016097	3332683	66.633	62.131	
30)	cis-Nonac...	8.085	8.766	6561957	4651735	42.385	40.390	
31)	Mirex	8.734	9.704	22530	28521	7125.656	0.007	#
32)	Chlordane...	0.000	8.348	0	5591050	N.D.	386.463	#
33)	Chlordane...	7.783f	0.000	4696408	0	226.638	N.D.	#
34)	Chlordane...	8.349	9.116	11160	3974	2.097	BelowCal	#
35)	Chlordane...	3.940f	3.935	15824	9714	NoCal	NoCal	
36)	Toxaphene...	7.783f	8.725f	4696408	3332683	5641.906	2975.660	#
37)	Toxaphene...	8.085	0.000	6561957	0	4354.794	N.D.	#
38)	Toxaphene...	8.388f	9.082	90448	9888	29.080	4.556	#
39)	Toxaphene...	8.622f	9.116f	7687	3974	BelowCal	BelowCal	
40)	Toxaphene...	8.915f	9.295f	92996	2927	39.487	BelowCal	#
41)	Toxaphene...	8.955	9.704	1050206	28521	346.210	14.091	#
42)	Toxaphene...	0.000	3.935	0	9714	N.D.	NoCal	

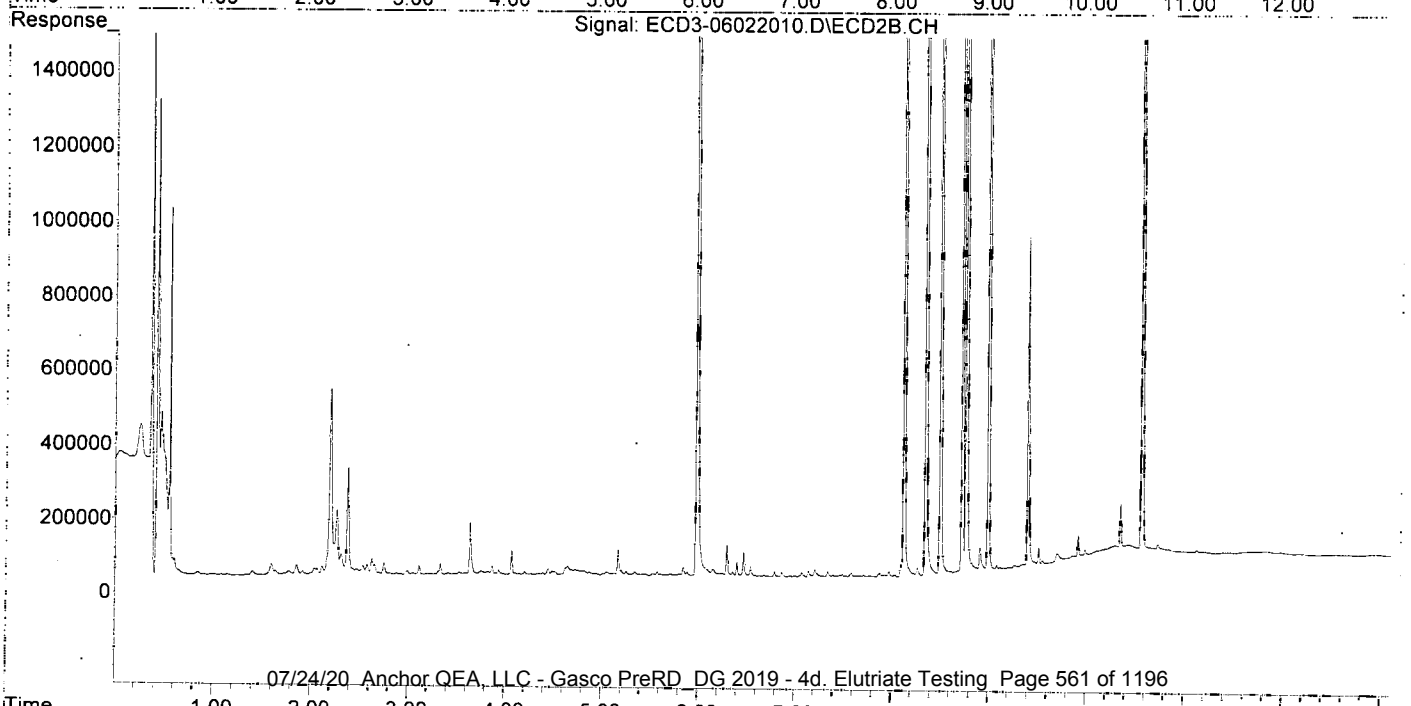
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 18:53
Operator : MJB
Sample : 0060013-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:01:54 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 21:28
Operator : MJB
Sample : 0F02064-CCV3
Misc : A20E233, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:31 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

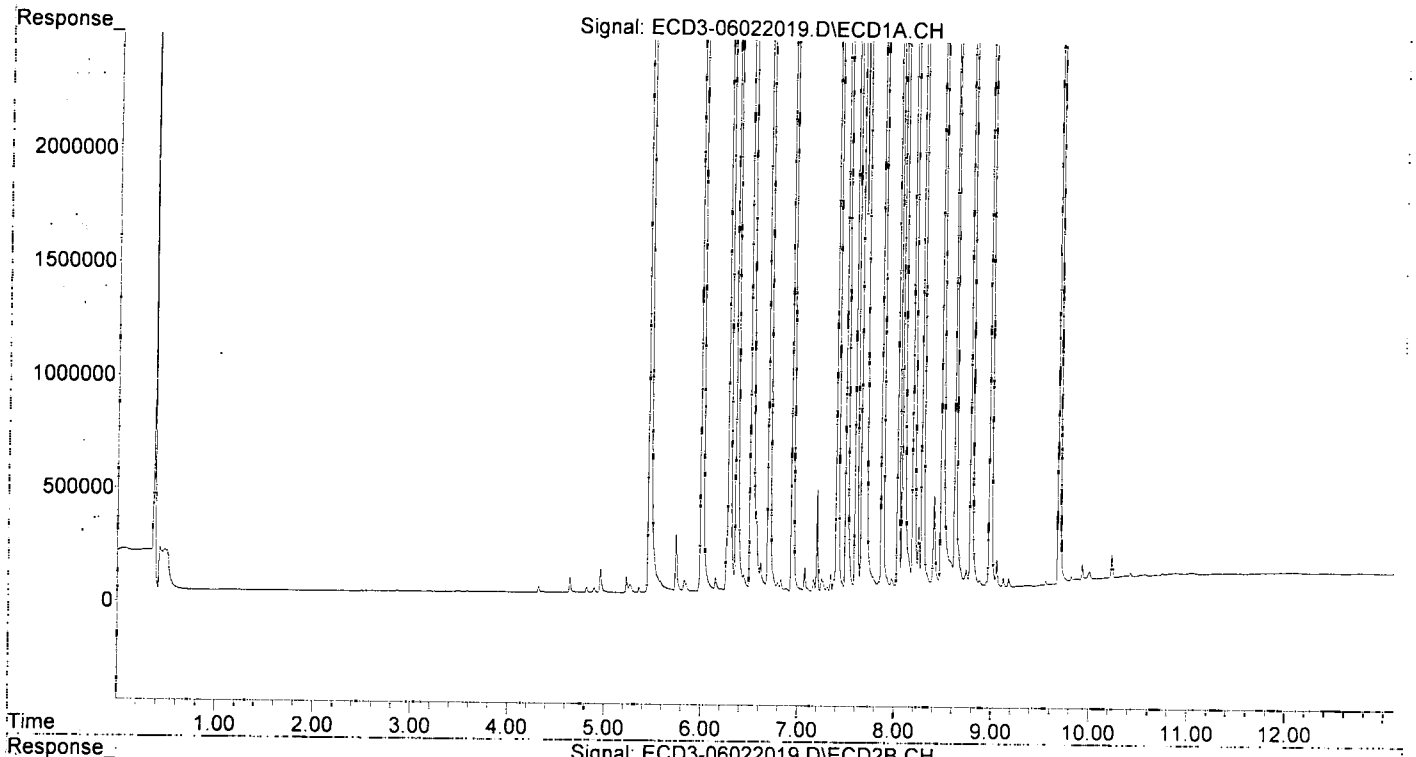
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.464	5.983	15201282	9640543	102.637	88.746	
22)	S DCBP (S)	9.693	10.567	11578469	6973610	105.207	108.237	
	Target Compounds							
2)	a-BHC	6.005	6.590	22110362	15086279	109.298	96.107	
3)	g-BHC	6.289	6.910	19296265	13114821	111.744	97.345	
4)	b-BHC	6.364	6.975	7292294	5381559	106.891	87.624	
5)	Heptachlor	6.702	7.284	17919989	11718867	109.436	103.521	
6)	d-BHC	6.515	7.232	15858756	11362892	112.980	92.959	
7)	Aldrin	6.944	7.552	19033592	13347768	113.538	100.437	
8)	Heptachlo...	7.407	7.992	16316033	11750962	104.334	99.845	
9)	trans-Chl...	7.504	8.133	16986091	11993914	107.945	99.450	
10)	cis-Chlor...	7.602	8.241	16693365	11652756	106.348	100.604	
11)	Endosulfa...	7.699	8.290	15284485	10837440	106.496	100.778	
12)	4,4'-DDE	7.665	8.350	16057179	11266640	111.313	97.842	
13)	Dieldrin	7.872	8.492	18158794	11996449	112.989	100.185	
14)	Endrin	8.038	8.721	10472172	6806515	84.889	78.734	Q 3,1
15)	4,4'-DDD	8.088	8.768	12600388	8998085	103.788	95.353	
16)	Endosulfa...	8.195	8.869	12913670	9282596	106.680	101.208	
17)	4,4'-DDT	8.287	8.994	9998274	6561817	94.637	98.991	
18)	Endrin Al...	8.487	9.107	12136708	8897181	116.737	114.359	
19)	Endosulfa...	8.791	9.299	12662003	9024836	105.114	107.211	
20)	Methoxychlor	8.625	9.476	4886572	3132851	98.629	99.463	
21)	Endrin Ke...	8.987	9.700	16852159	10508707	116.991	109.837	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.847	0.000	34494	0	0.056	N.D.	#
25)	Oxychlordane	7.342	7.903	74534	28328	0.376	0.067	#
26)	2,4'-DDE	7.407	8.133	16316033	11993914	171.581	167.940	
27)	trans-Non...	7.602	8.188	16693365	75733	115.086	0.467	#
28)	2,4'-DDD	0.000	8.492	0	11996449	N.D.	191.429	#
29)	2,4'-DDT	7.971	8.721	49052	6806515	0.652	126.893	#
30)	cis-Nonac...	8.088f	8.768	12600388	8998085	81.056	79.595	
31)	Mirex	8.740	9.700	81936	10508707	0.458	162.104	#
32)	Chlordane...	7.699	8.350	15284485	11266640	865.953	778.770	
33)	Chlordane...	7.837f	0.000	36751	0	1.773	N.D.	#
34)	Chlordane...	0.000	9.107	0	8897181	N.D.	2459.282	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.837f	8.721f	36751	6806515	44.149	6077.348	#
37)	Toxaphene...	8.088	0.000	12600388	0	8362.153	N.D.	#
38)	Toxaphene...	8.408	9.107f	414643	8897181	133.310	4099.432	#
39)	Toxaphene...	8.625f	9.107f	4886572	8897181	1608.267	2594.859	#
40)	Toxaphene...	8.879	9.299	32006	9024836	13.590	4464.974	#
41)	Toxaphene...	8.987f	9.700	16852159	10508707	5555.463	5192.066	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

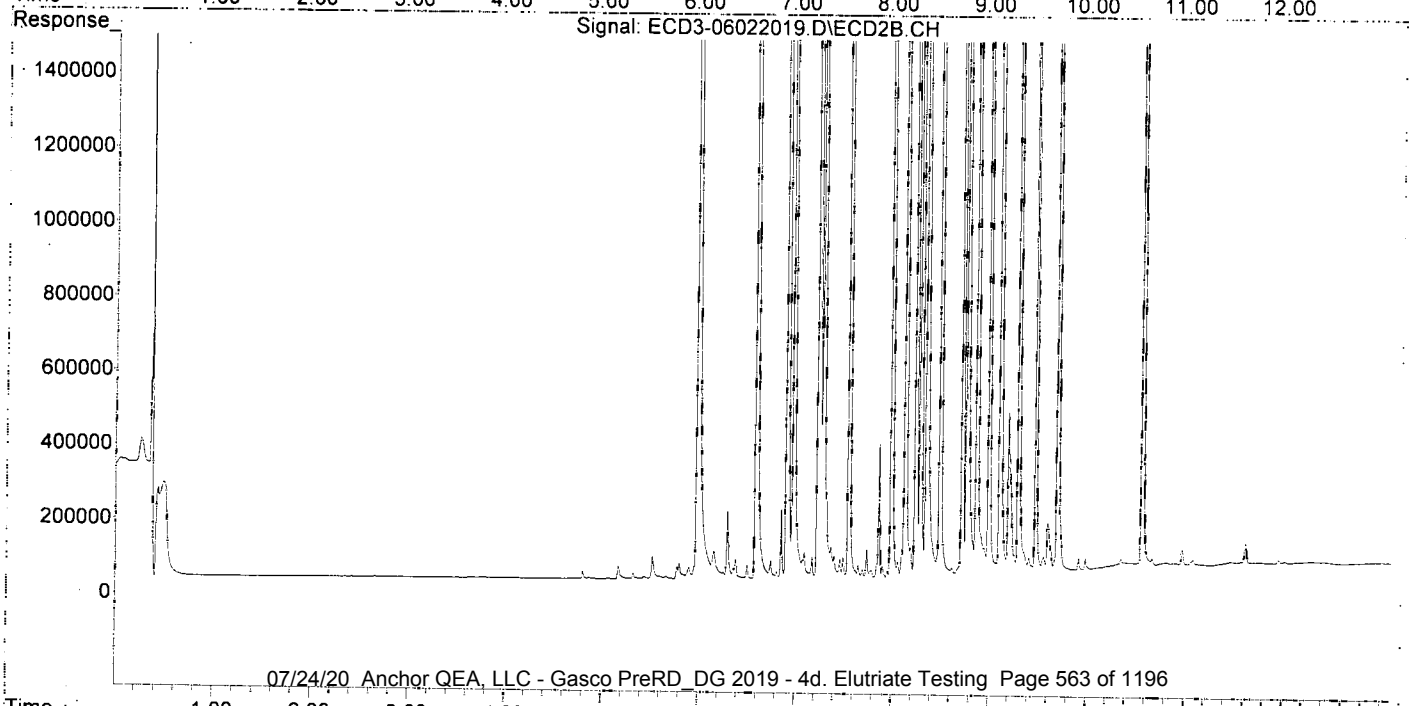
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 21:28
Operator : MJB
Sample : 0F02064-CCV3
Misc : A20E233, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:31 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 21:45
Operator : MJB
Sample : 0F02064-CCV4
Misc : A20C359, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 6/3/20

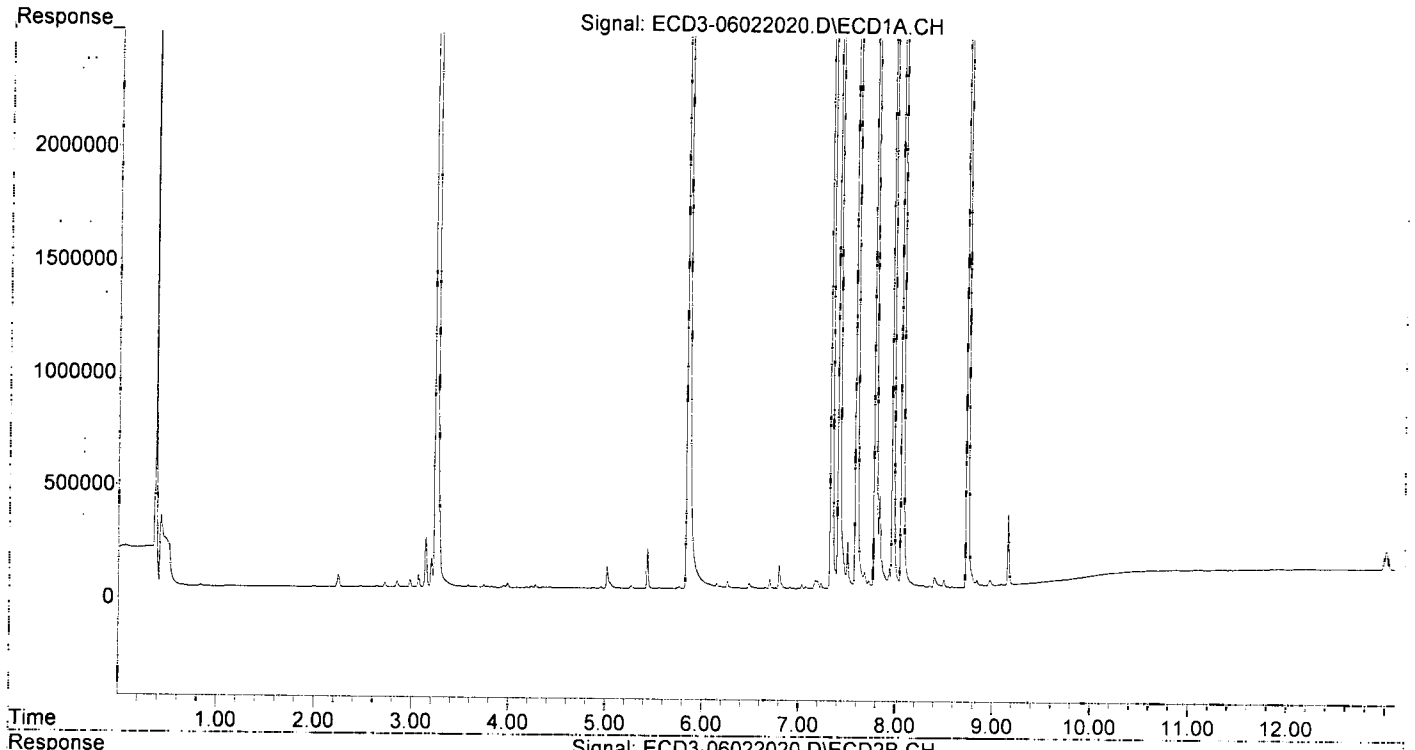
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.435f	0.000	179758	0	1.214	N.D.	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.262f	0.000	28460	0	0.165	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.701	7.285	40292	28423	0.246	0.251	
6)	d-BHC	6.486f	7.245	21833	6247	0.156	0.051	#
7)	Aldrin	6.908f	7.543	7387	4150	0.044	0.031	
8)	Heptachlo...	7.411	8.026f	9521782	50193	60.887	0.426	#
9)	trans-Chl...	7.503	8.127	208847	7209465	1.327	59.779	#
10)	cis-Chlor...	7.593	8.240	15423279	513992	98.256	4.438	#
11)	Endosulfa...	7.681	8.305	69340	49151	0.483	0.457	
12)	4,4'-DDE	7.681	0.000	69340	0	0.481	N.D.	#
13)	Dieldrin	7.834f	8.502	407748	6242345	2.537	52.131	#
14)	Endrin	8.066f	8.727	16297118	5323797	132.107	61.582	#
15)	4,4'-DDD	8.066f	8.765	16297118	11618310	134.238	123.119	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	8.259f	8.977	11573	4359	0.227	0.150	
18)	Endrin Al...	8.500	9.111	32590	6787	0.092	3407.124	#
19)	Endosulfa...	0.000	9.301	0	3381	N.D.	0.040	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.979	9.691	25550	7129309	0.177	74.515	#
23)	Hexachlor...	3.248	3.664	18095217	14574947	109.959	100.360	
24)	Hexachlor...	5.848	6.452	13589643	9073595	99.360	86.385	
25)	Oxychlordane	7.335	7.920	13571885	10128354	103.710	105.840	
26)	2,4'-DDE	7.411	8.127	9521782	7209465	102.152	97.372	
27)	trans-Non...	7.593	8.196	15423279	10993313	106.411	105.027	
28)	2,4'-DDD	7.787	8.502	8278546	6242345	100.662	96.384	
29)	2,4'-DDT	7.970	8.727	7837976	5323797	104.118	99.251	
30)	cis-Nonac...	8.066	8.765	16297118	11618310	104.488	103.864	
31)	Mirex	8.739	9.691	10121425	7129309	103.377	108.121	
32)	Chlordane...	7.724	8.305f	32199	49151	1.824	3.397	#
33)	Chlordane...	7.834f	0.000	407748	0	19.677	N.D.	#
34)	Chlordane...	8.353	9.111	8315	6787	1.563	BelowCal	#
35)	Chlordane...	3.988	0.000	19937	0	NoCal	N.D.	
36)	Toxaphene...	7.787	0.000	8278546	0	9945.212	N.D.	#
37)	Toxaphene...	8.066f	0.000	16297118	0	10815.461	N.D.	#
38)	Toxaphene...	8.403	9.111f	45455	6787	14.614	3.127	#
39)	Toxaphene...	0.000	9.111f	0	6787	N.D.	BelowCal	
40)	Toxaphene...	8.892	9.301	5684	3381	2.414	BelowCal	#
41)	Toxaphene...	8.979	9.691	25550	7129309	8.423	3522.398	#
42)	Toxaphene...	3.988	0.000	19937	0	NoCal	N.D.	

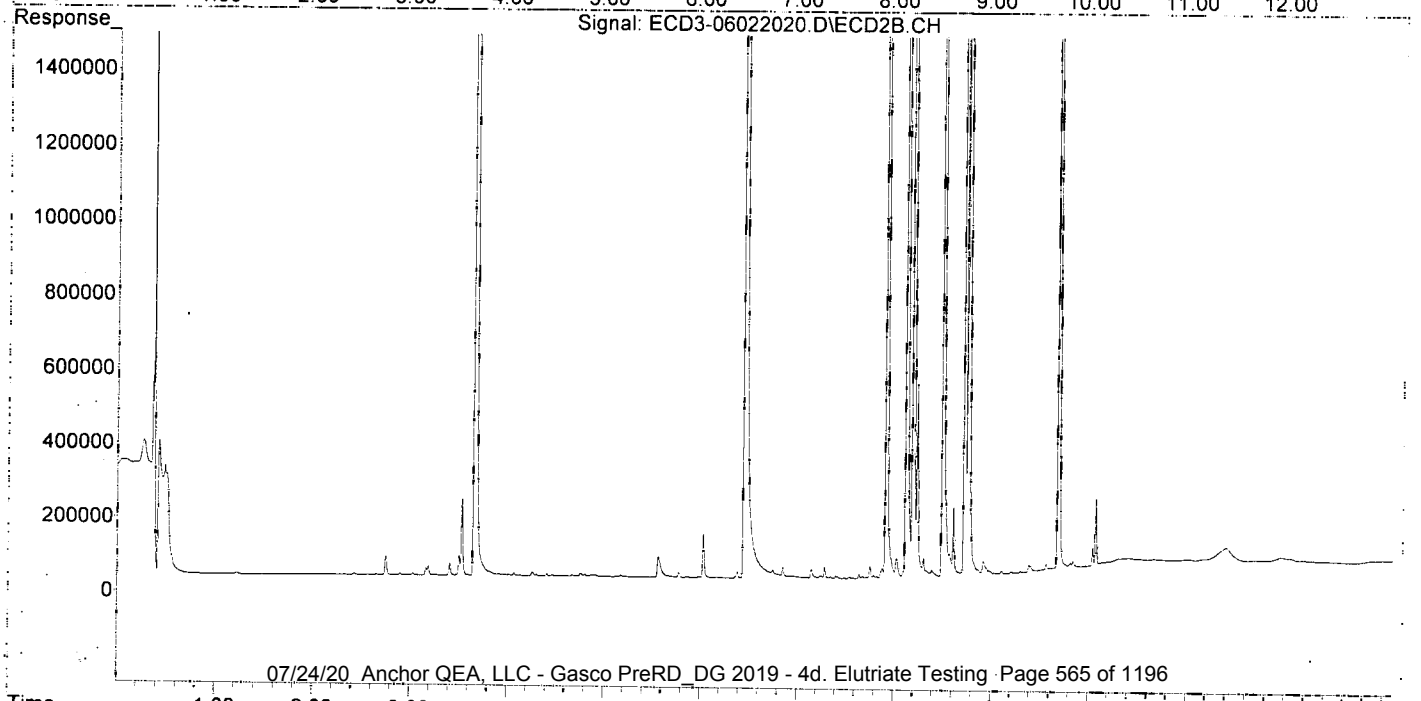
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 21:45
Operator : MJB
Sample : 0F02064-CCV4
Misc : A20C359, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 22:02
Operator : MJB
Sample : 0F02064-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

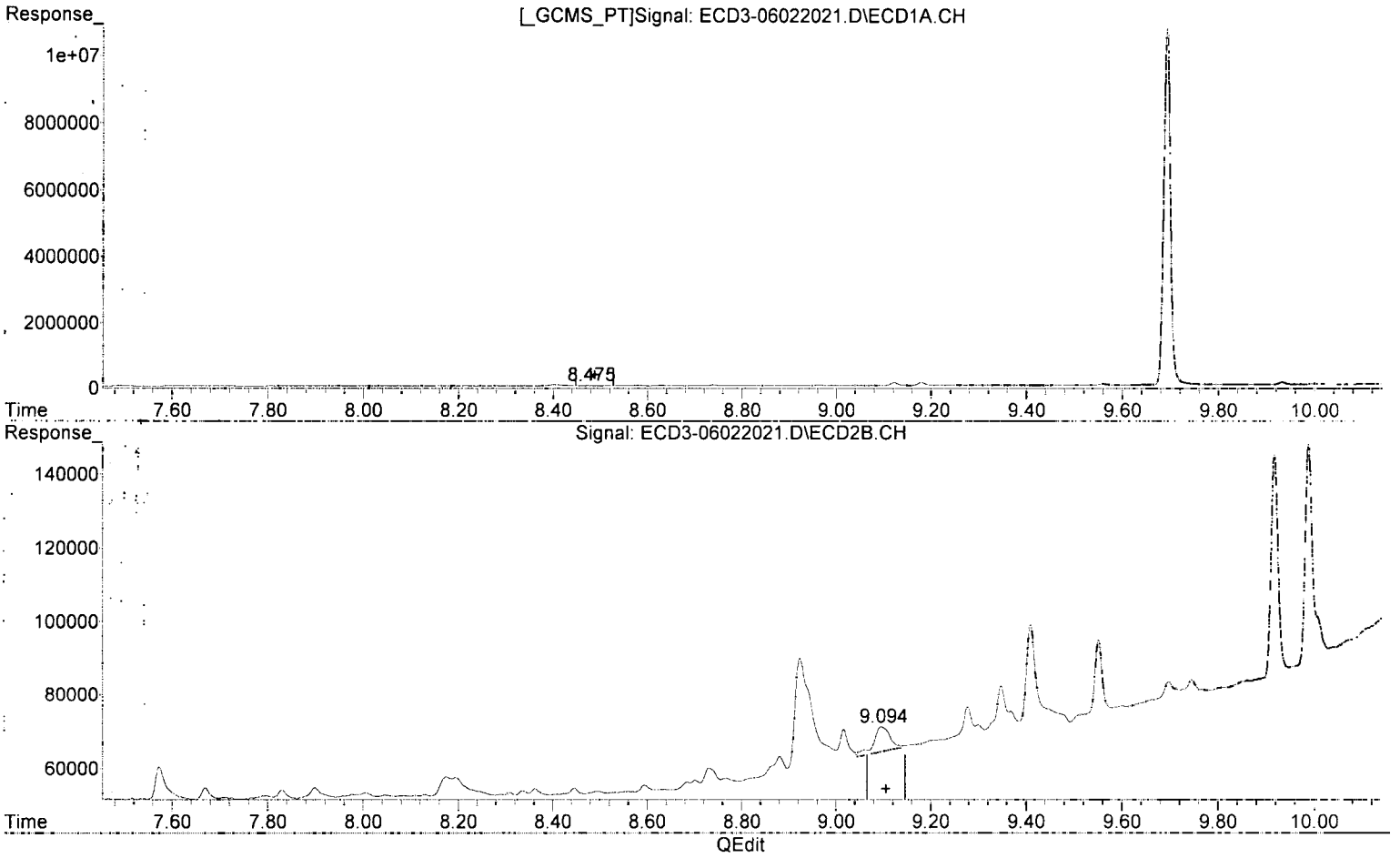
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.464	5.983	14554453	9105047	98.270	83.567	
22)	S DCBP (S)	9.692	10.566	10754513	6596300	97.728	102.077	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	0.000	7.255f	0	3766	N.D.	0.033	#
6)	d-BHC	0.000	7.255f	0	3766	N.D.	0.031	#
7)	Aldrin	0.000	7.573f	0	8925	N.D.	0.067	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.490	0.000	12453	0	0.079	N.D.	#
10)	cis-Chlor...	7.617	0.000	6799	0	0.043	N.D.	#
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	7.652	0.000	5950	0	0.041	N.D.	#
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	0.000	8.730	0	3854	N.D.	0.045	#
15)	4,4'-DDD	8.107	8.730f	5126	3854	0.042	0.041	
16)	Endosulfa...	8.215	8.881	9705	4525	0.080	0.049	
17)	4,4'-DDT	0.000	9.017f	0	8049	N.D.	0.218	#
18)	Endrin Al...	8.475	9.095	12771	6616	BelowCal	~~3407.126~~	Q-Del
19)	Endosulfa...	8.794	9.301	3071	1709	0.025	0.020	
20)	Methoxychlor	8.630	0.000	12515	0	0.343	N.D.	#
21)	Endrin Ke...	8.993	9.697	6945	4932	0.048	0.052	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.848	0.000	26737	0	BelowCal	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)	trans-Non...	7.617f	8.194	6799	4265	BelowCal	~~1953.~~525	Q-Del
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	7.954	8.730	5470	3854	0.073	0.072	
30)	cis-Nonac...	0.000	8.730f	0	3854	N.D.	~~2549.~~527	# Q-Del
31)	Mirex	8.740	9.697	30750	4932	~~7125.~~573	~~3567.456~~	#
32)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	8.402f	9.095	40549	6616	7.621	BelowCal	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)	Toxaphene...	8.107	9.017	5126	8049	3.402	5.900	#
38)	Toxaphene...	8.402	9.095f	40549	6616	13.037	3.048	#
39)	Toxaphene...	8.630f	0.000	12515	0	BelowCal	N.D.	
40)	Toxaphene...	0.000	9.301	0	1709	N.D.	BelowCal	
41)	Toxaphene...	8.963	9.697	16828	4932	5.547	2.437	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 22:02
Operator : MJB
Sample : 0F02064-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.475min -0.101 ng/mL

response 12771

MJB 6/3/20

(18) Endrin Aldehyde #2

9.095min 3407.126 ng/mL Qpel

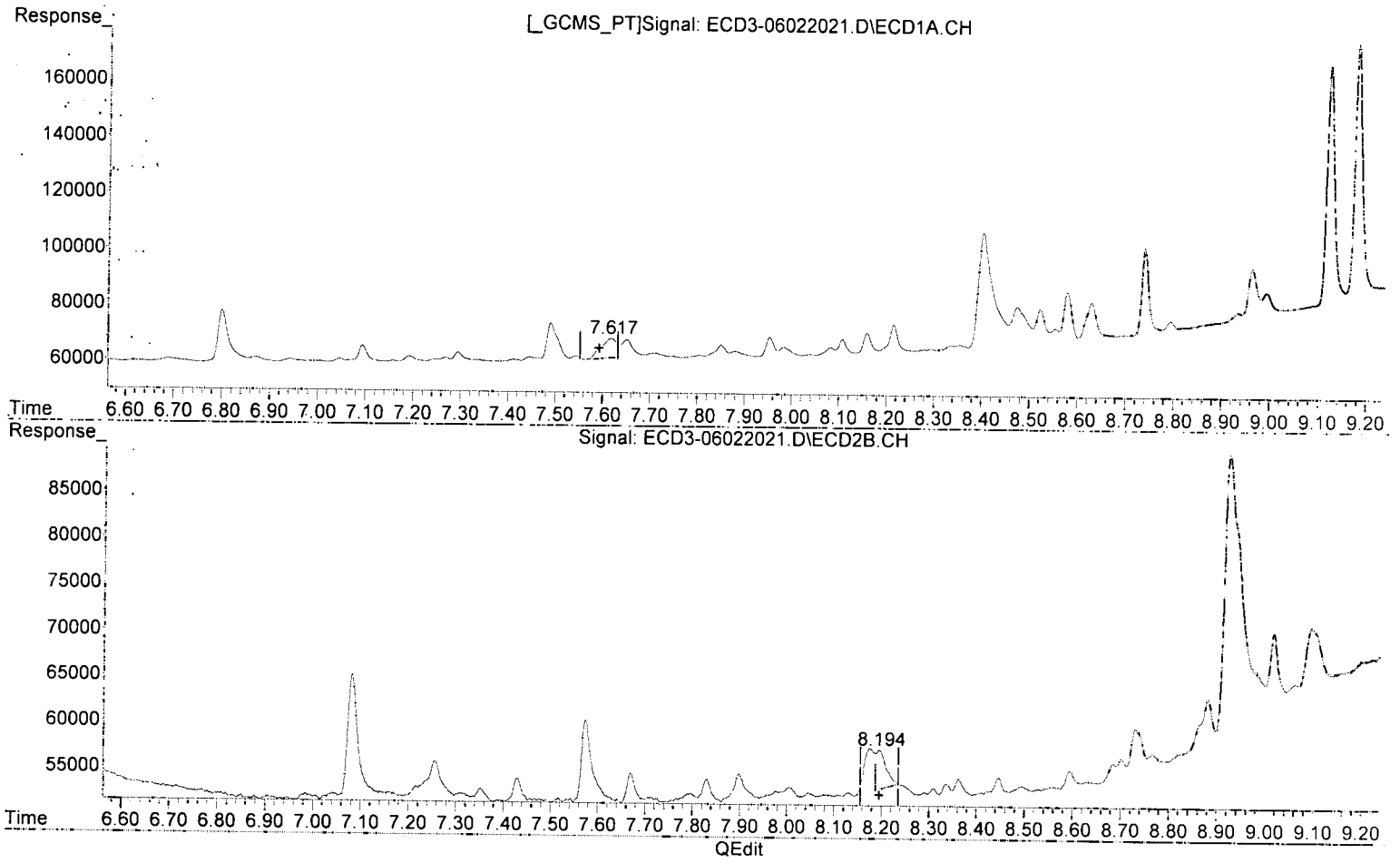
response 6616

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 22:02
Operator : MJB
Sample : 0F02064-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.617min -0.161 ng/mL

response 6799

MJB 6/5/20

(27) trans-Nonachlor #2

8.194min 1953.525 ng/mL Q-Det

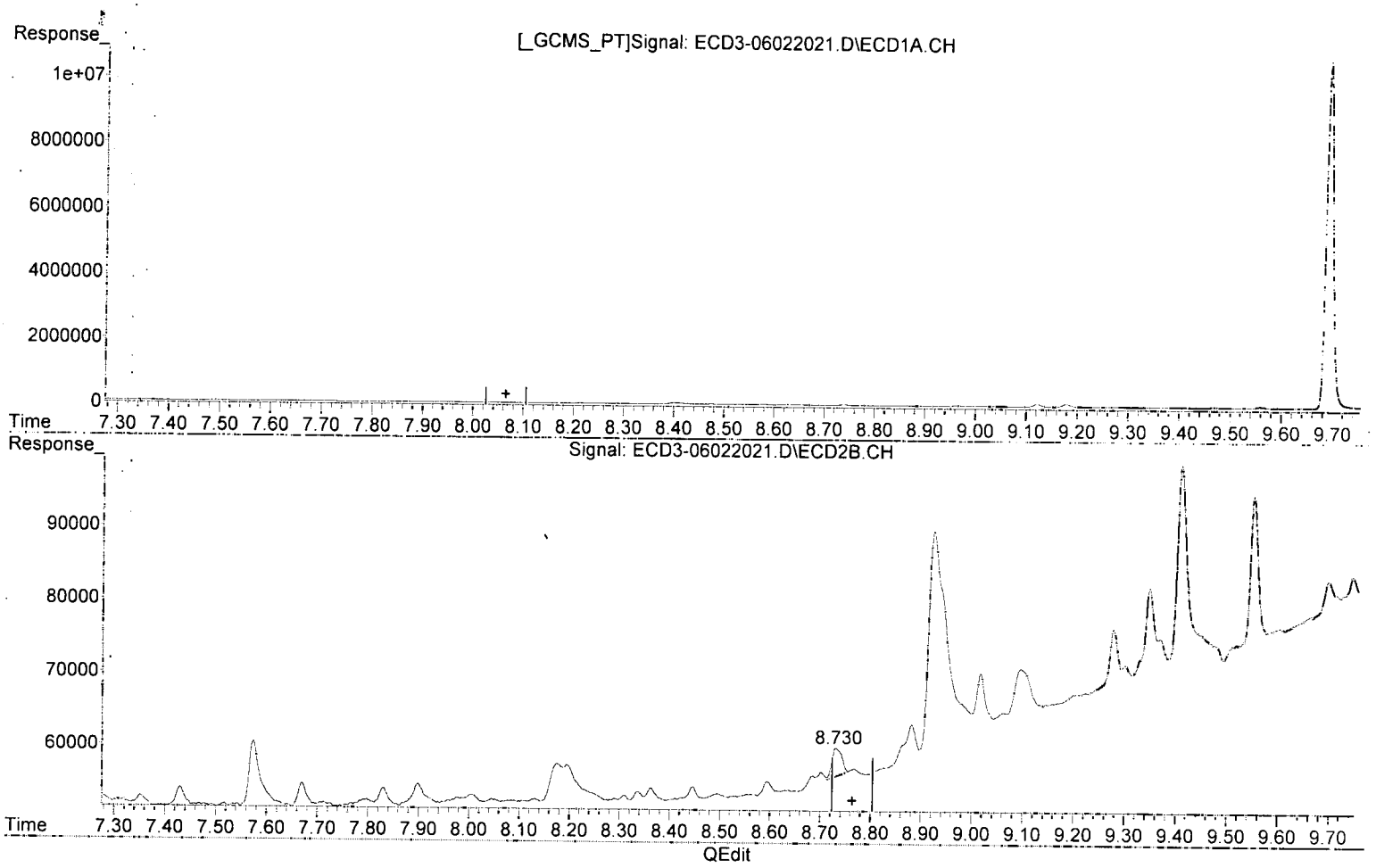
response 4265

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:46:52 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 22:02
Operator : MJB
Sample : 0F02064-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

0.000min 0.000 ng/mL

response 0

(30) cis-Nonachlor #2

8.730min 2549.527 ng/mL Q.Del

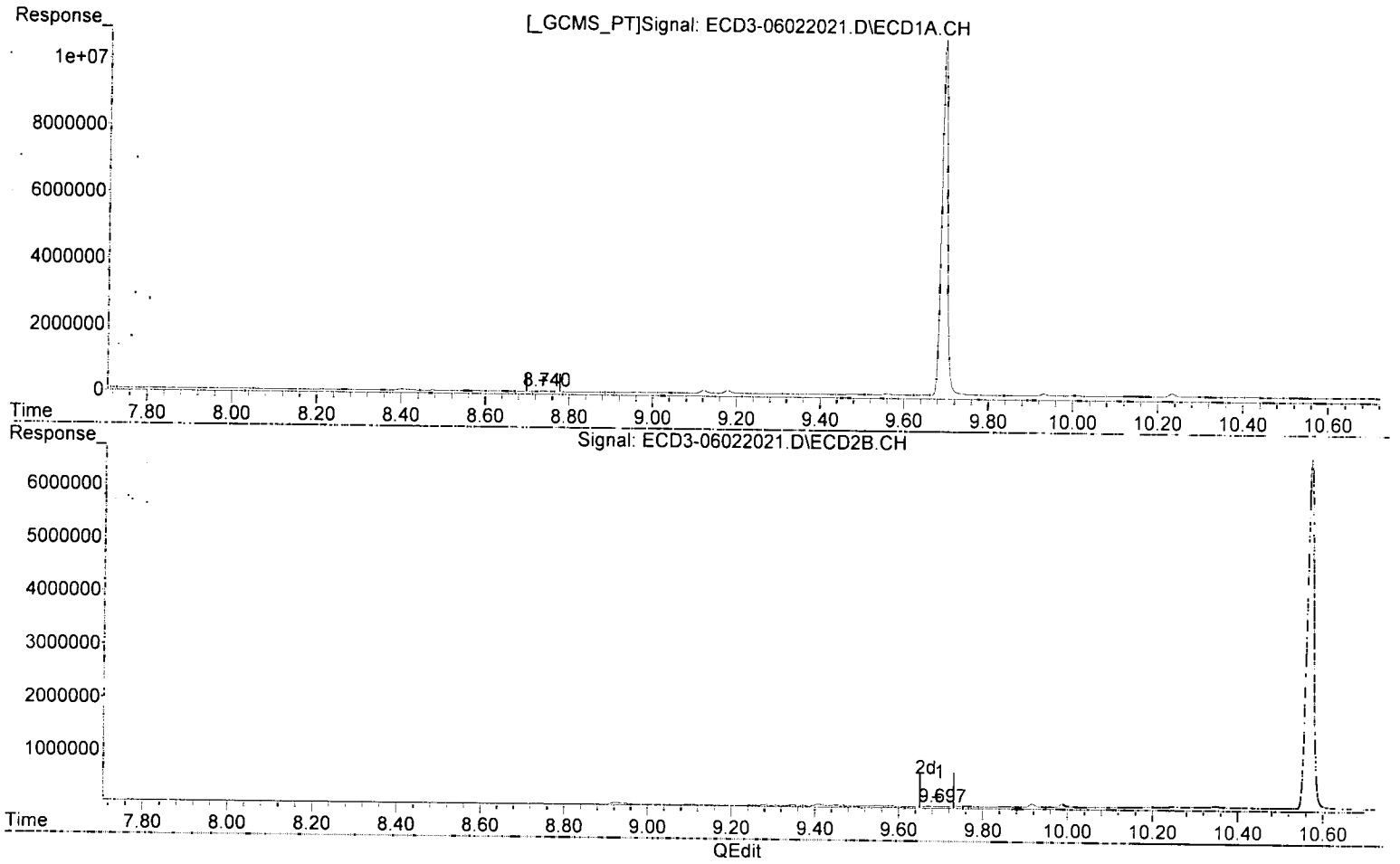
response 3854

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:46:58 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 22:02
Operator : MJB
Sample : 0F02064-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.740min 7125.573 ng/mL

response 30750

MJB 6/3/20

Q-pol

(31) Mirex #2

9.697min 3567.456 ng/mL

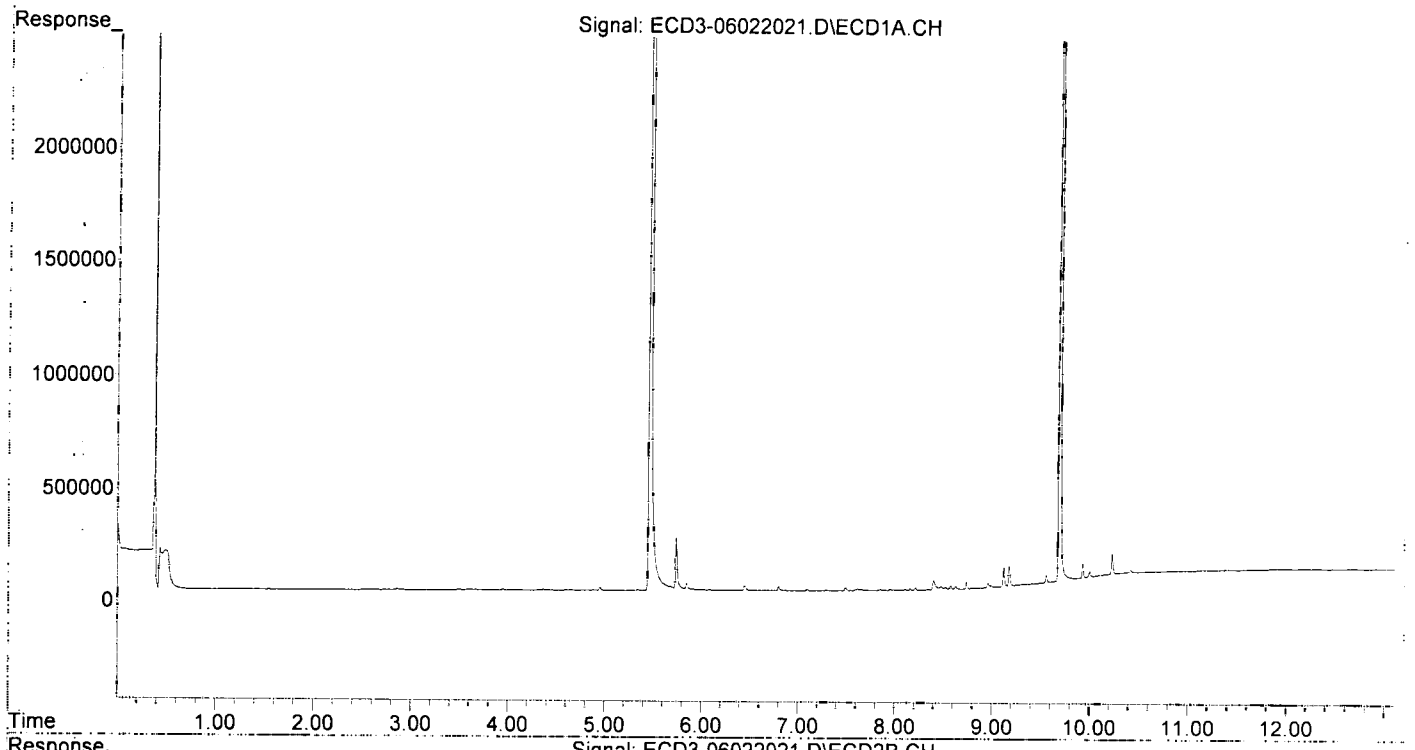
response 4932

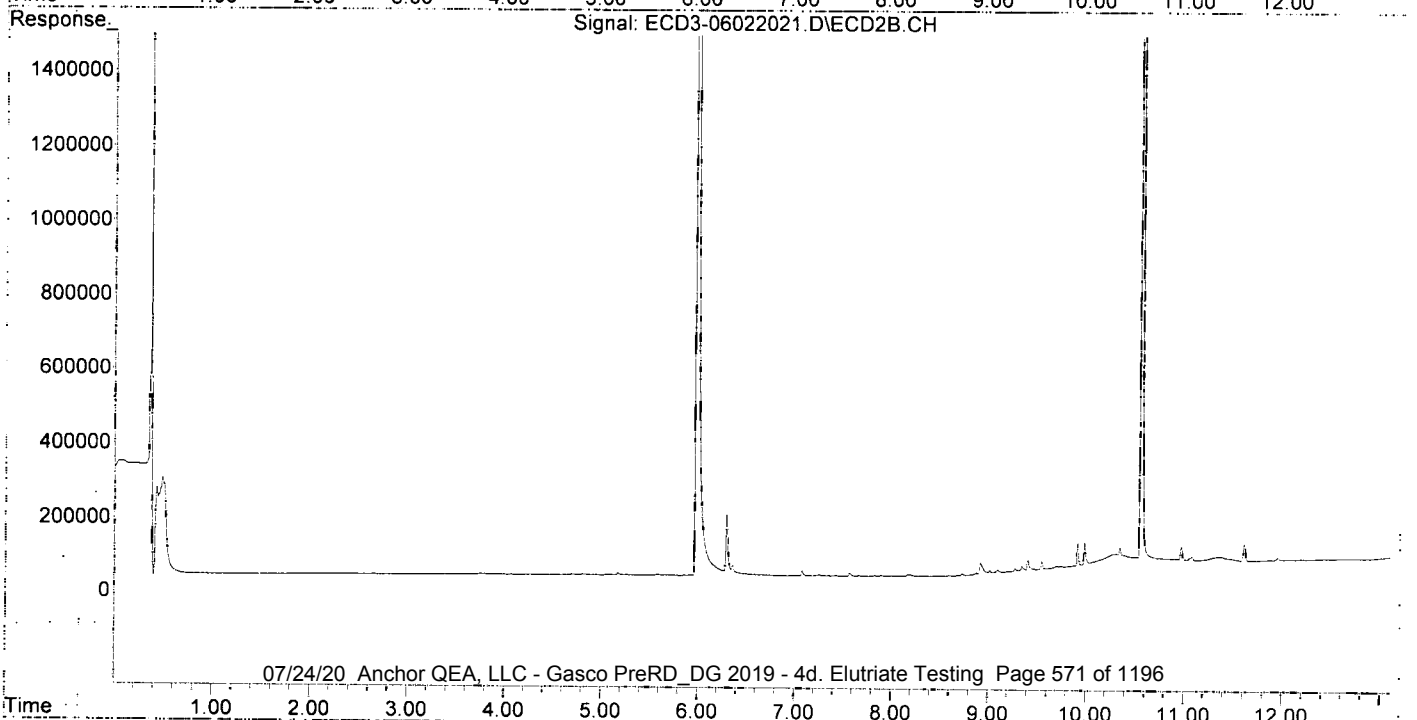
(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:47:03 2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Jun 2020 22:02
Operator : MJB
Sample : 0F02064-CCB2
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:02:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 17:36:16 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

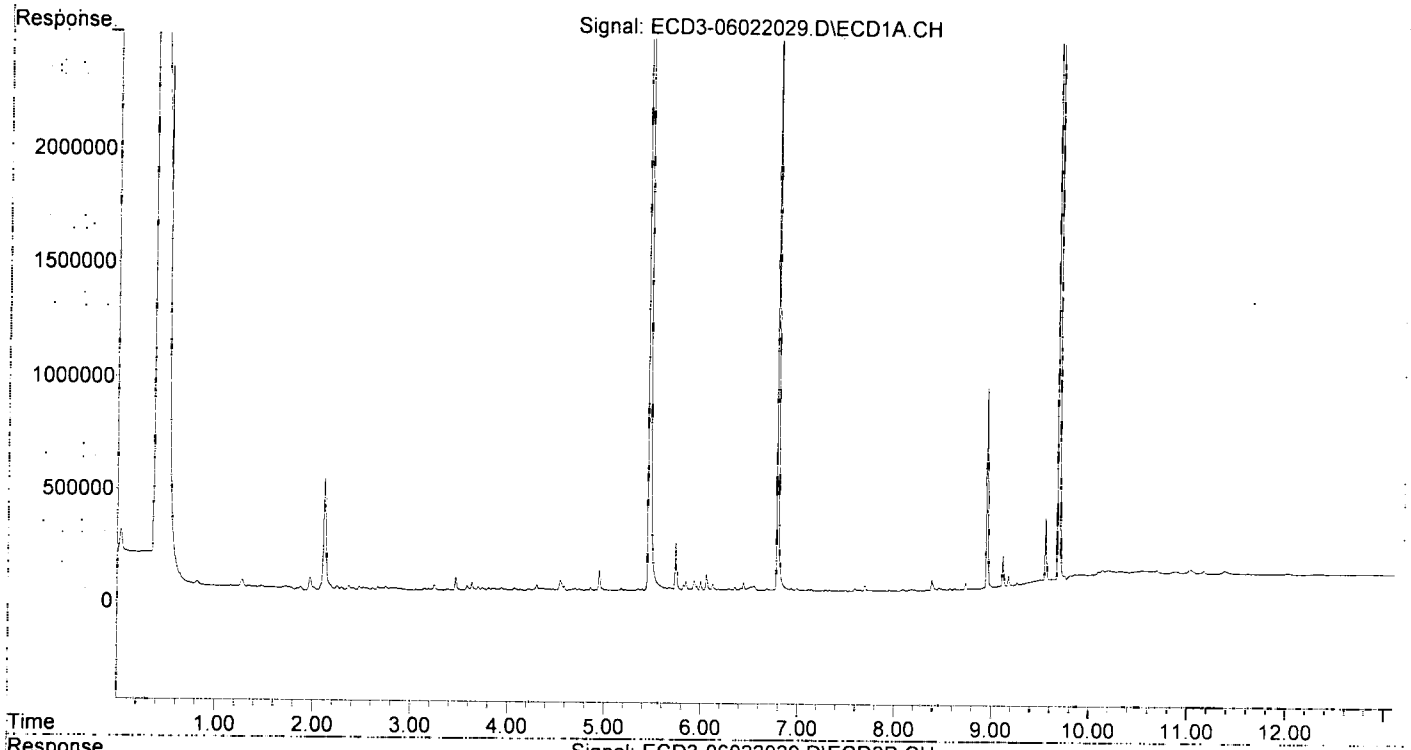
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.461	5.979	11239003	7420291	75.884	67.474	
22)	S DCBP (S)	9.687	10.562	7794405	4763981	70.829	72.670	
	Target Compounds							
2)	a-BHC	5.995	0.000	42151	0	0.208	N.D.	#
3)	g-BHC	6.289	0.000	6581	0	0.038	N.D.	#
4)	b-BHC	6.350	0.000	12995	0	0.190	N.D.	#
5)	Heptachlor	6.681f	0.000	8482	0	0.052	N.D.	#
6)	d-BHC	6.553f	7.206f	17061	6707	0.122	0.055	#
7)	Aldrin	6.933	7.588f	9444	6083	0.056	0.046	
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	0.000	0.000	0	0	N.D.	N.D.	
10)	cis-Chlor...	7.591	0.000	10344	0	0.066	N.D.	#
11)	Endosulfa...	7.695	0.000	22365	0	0.156	N.D.	#
12)	4,4'-DDE	7.638f	8.361	5341	18063	0.037	0.157	#
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	0.000	8.724	0	3886	N.D.	0.045	#
15)	4,4'-DDD	8.087	8.763	7119	2489	0.059	0.026	#
16)	Endosulfa...	8.207	8.829f	5779	5383	0.048	0.059	
17)	4,4'-DDT	0.000	9.006	0	3074	N.D.	0.127m	#
18)	Endrin Al...	8.516f	9.081f	5547	6127	BelowCal	3407.132	
19)	Endosulfa...	8.786	9.272f	2293	7473	0.019	0.089	#
20)	Methoxychlor	8.623	9.512f	5773	6681	0.179	0.304	#
21)	Endrin Ke...	8.953f	9.692	892428	10579	6.195	0.111	#
23)	Hexachlor...	3.244	3.660	24116	23229	2108.563	837.936	#
24)	Hexachlor...	5.844	6.469	40990	40055	0.105	0.124	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	d
26)	2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)	trans-Non...	7.591	0.000	10344	0	BelowCal	N.D.	d
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	8.724	0	3886	N.D.	0.072	#
30)	cis-Nonac...	8.087f	0.000	7119	0	BelowCal	N.D.	d
31)	Mirex	8.733	9.692	28396	10579	7125.597	3567.373	#
32)	Chlordane...	7.695f	8.361f	22365	18063	1.267	1.249	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	8.387f	9.081f	46297	6127	8.701	BelowCal	#
35)	Chlordane...	3.942f	0.000	7931	0	NoCal	N.D.	
36)	Toxaphene...	0.000	8.694	0	4063	N.D.	3.628	#
37)	Toxaphene...	8.087	9.012f	7119	4115	4.724	3.017	
38)	Toxaphene...	8.387f	9.081	46297	6127	14.885	2.823	#
39)	Toxaphene...	8.623f	0.000	5773	0	BelowCal	N.D.	
40)	Toxaphene...	0.000	9.344f	0	9144	N.D.	1.786	#
41)	Toxaphene...	8.953	9.692	892428	10579	294.197	5.227	#
42)	Toxaphene...	3.942f	0.000	7931	0	NoCal	N.D.	

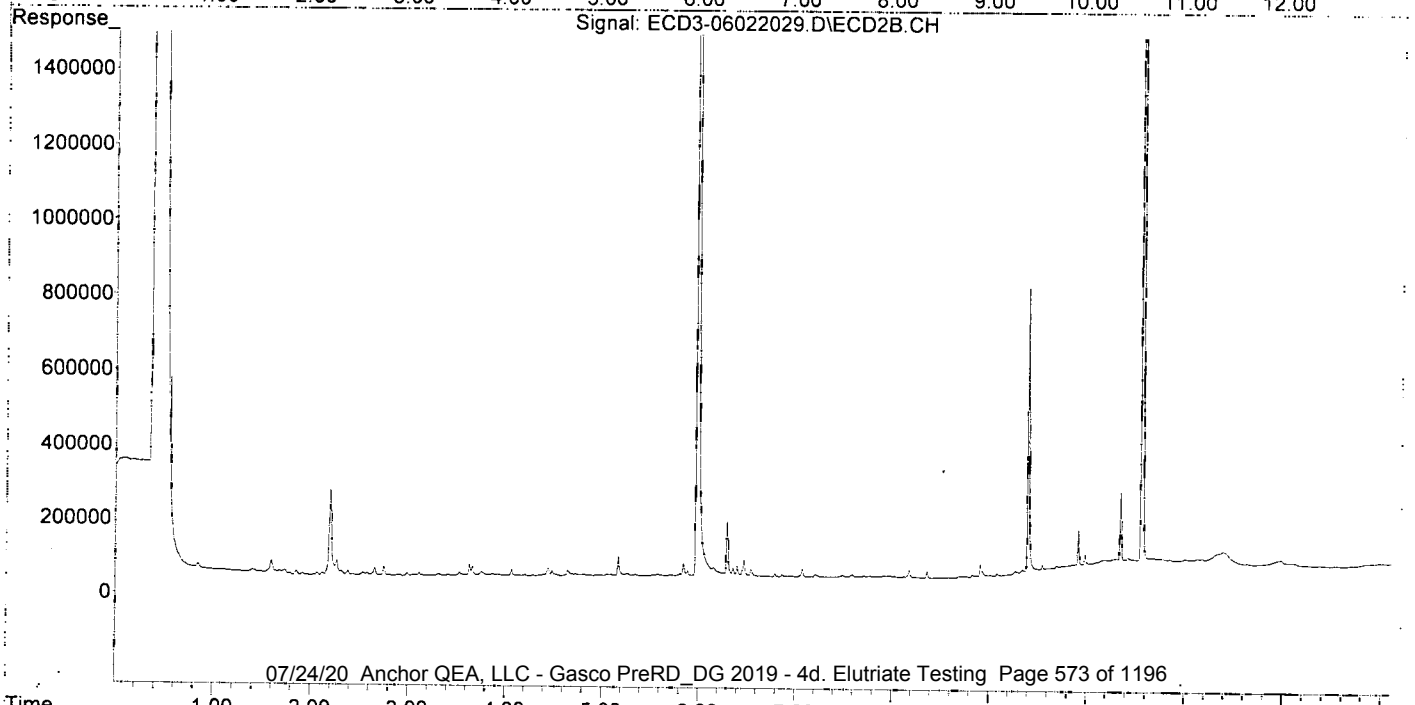
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 17:36:16 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

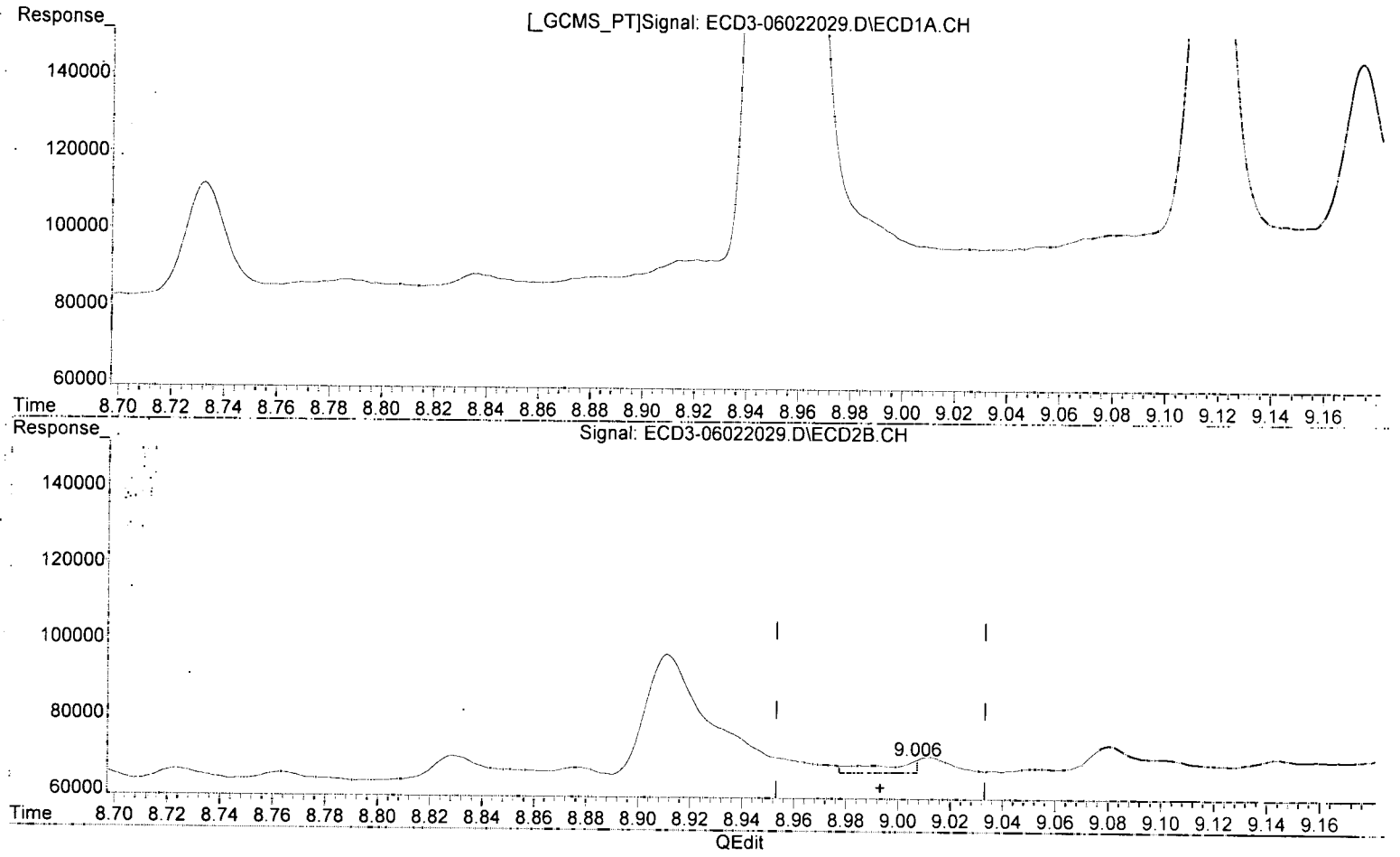




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

0.000min 0.000 ng/mL

response 0

MJB 6/3/20

(17) 4,4'-DDT #2

9.006min 0.127 ng/mL m

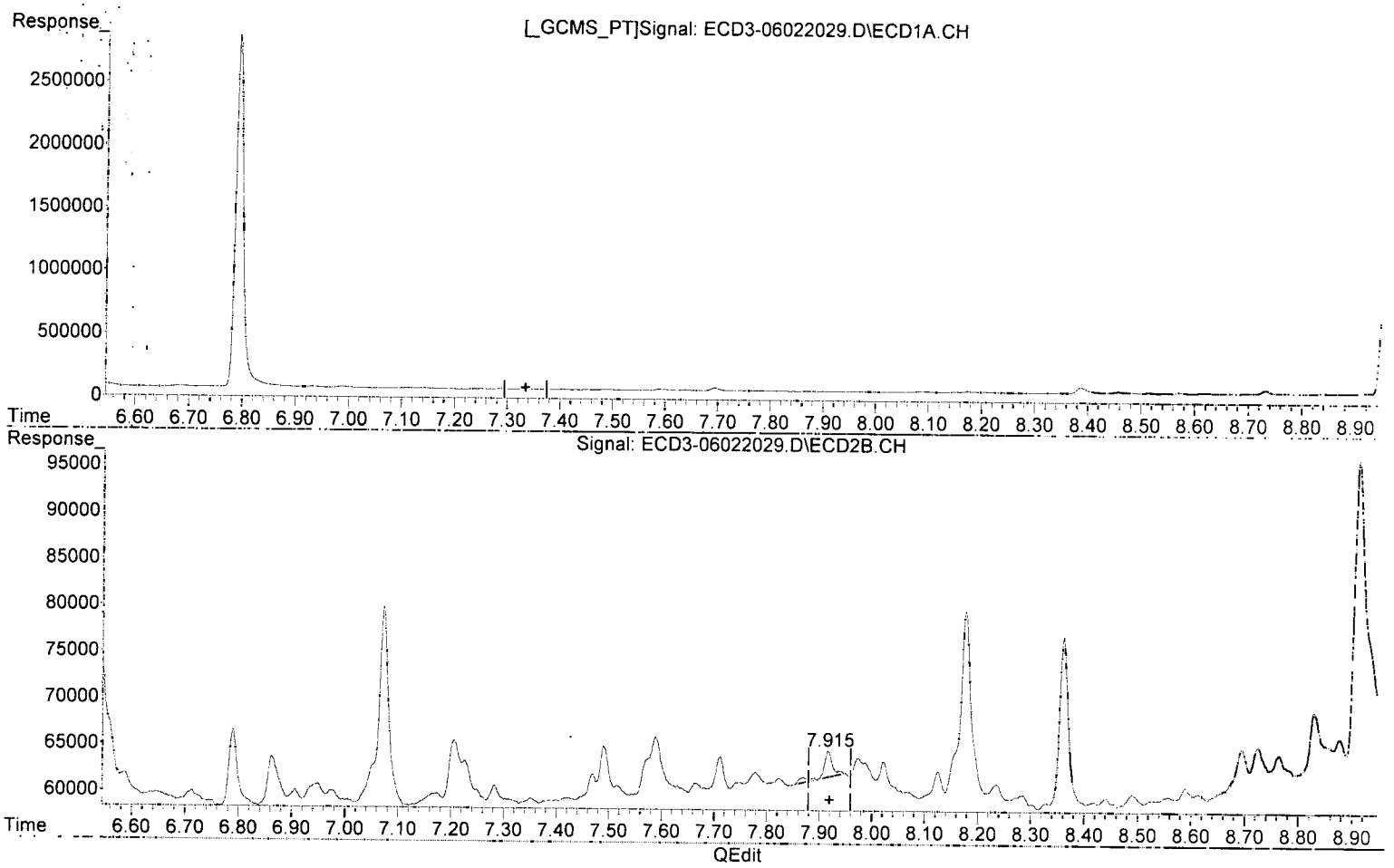
response 3074

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

0.000min 0.000 ng/mL

response 0

MJB 6/3/20

(25) Oxychlordane #2

7.917min 3277.709 ng/mL QM

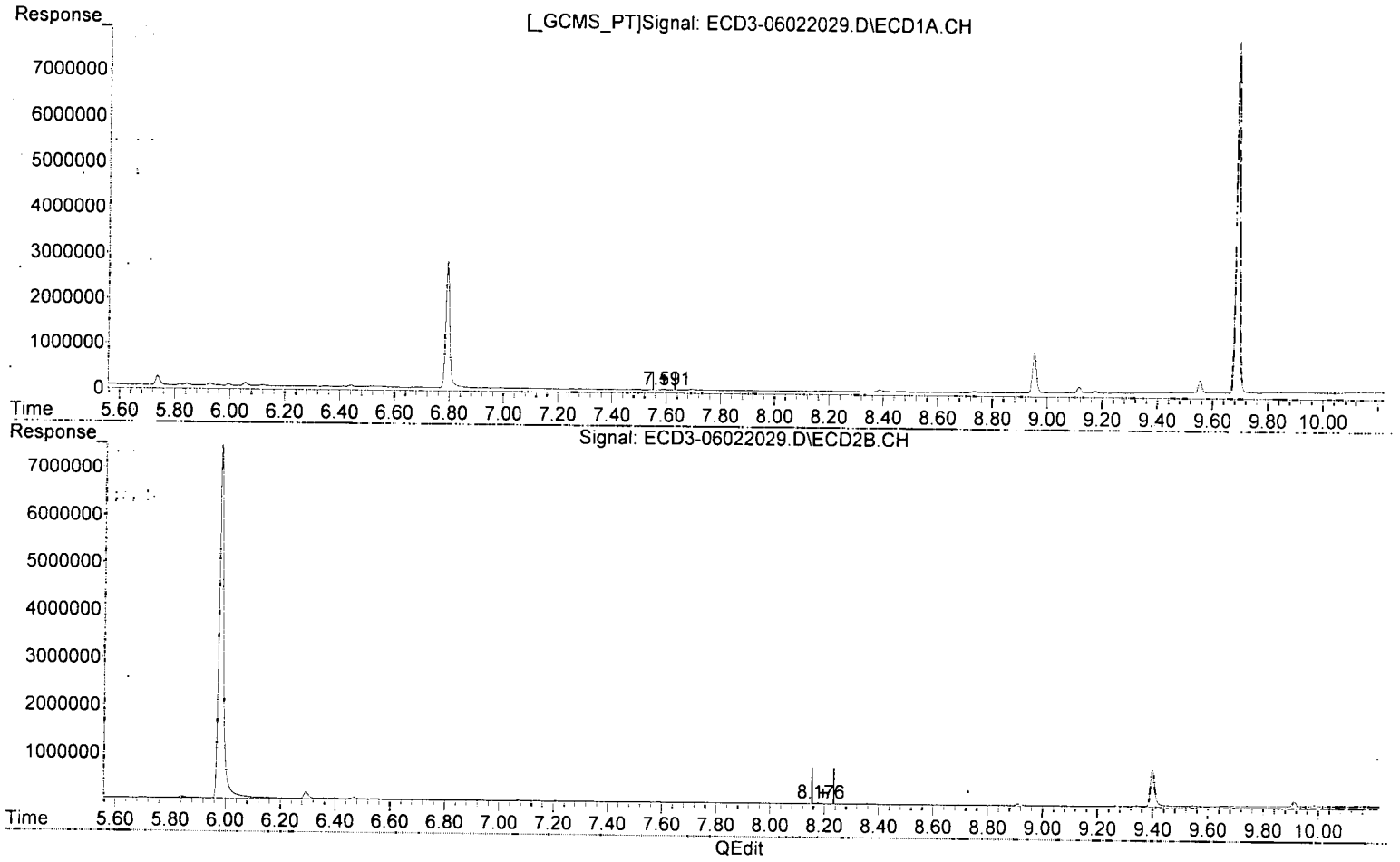
response 2789

(+) := Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:35:57 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.591min -0.136 ng/mL

response 10344

MB 6/3/20.

(27) trans-Nonachlor #2

8.176min 1953.385 ng/mL Q pcl

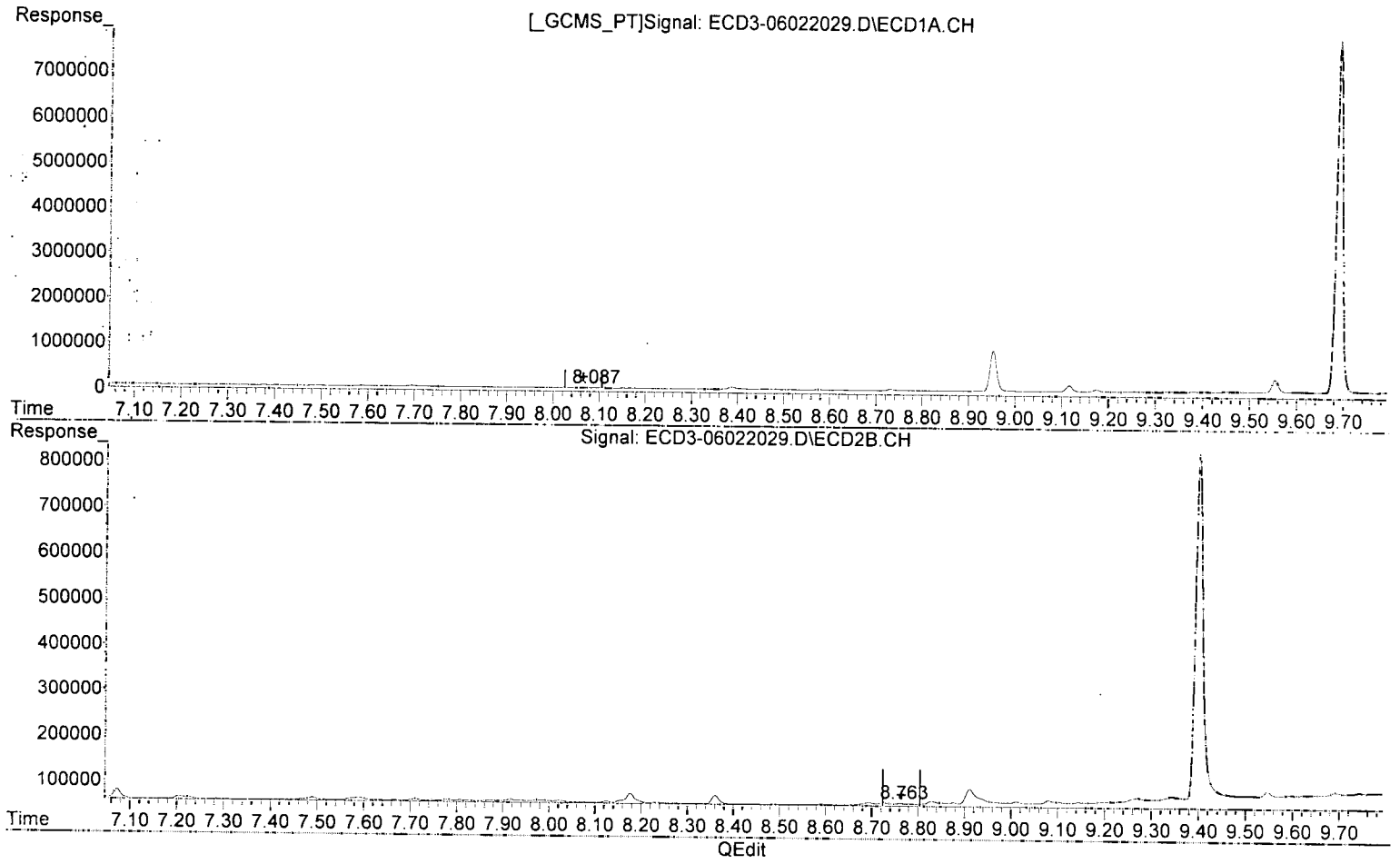
response 19644

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:36:07 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.087min -0.165 ng/mL

response 7119

MJB 6/3/20

(30) cis-Nonachlor #2

8.763min 2549.538 ng/mL Q ou

response 2489

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:36:16 2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MT MJB 6/5/20

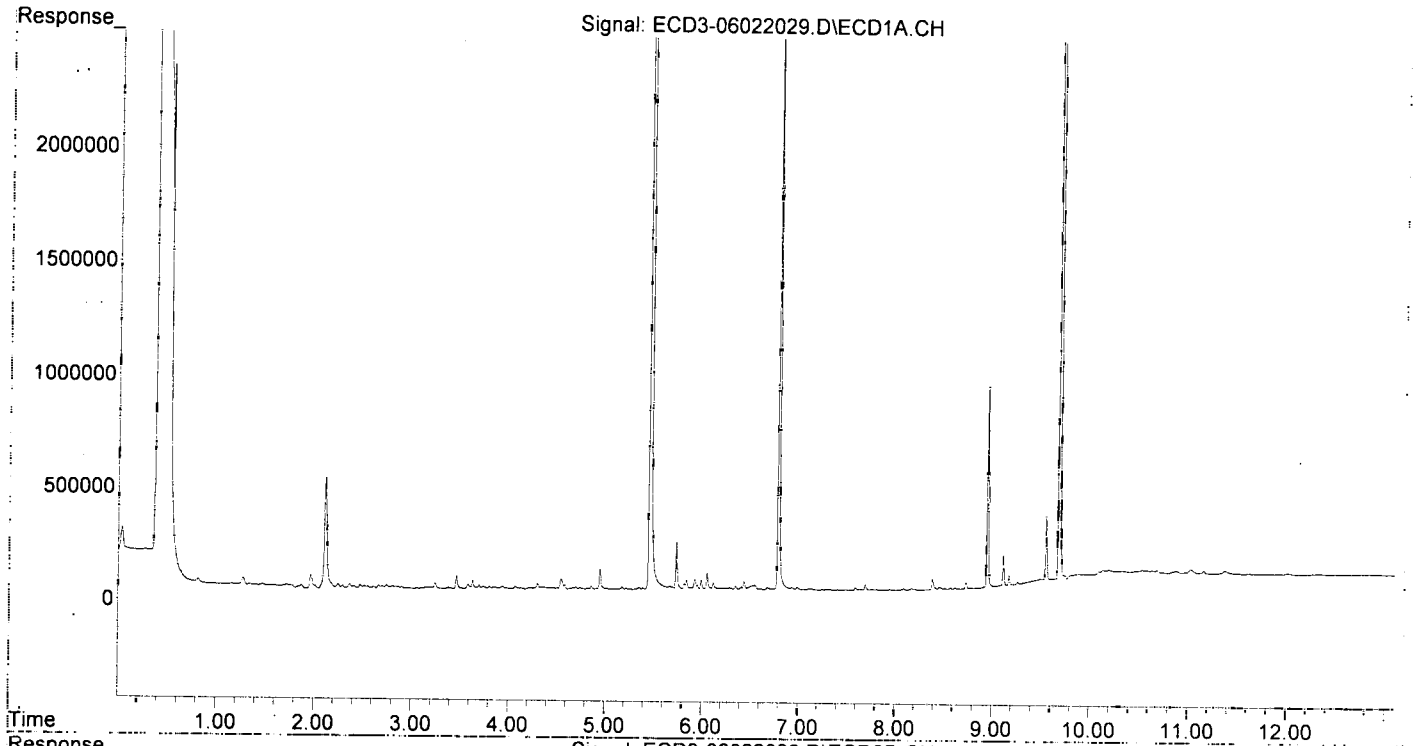
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.461	5.979	11239003	7420291	75.884	67.474	
22)	S DCBP (S)	9.687	10.562	7794405	4763981	70.829	72.670	
	Target Compounds							
2)	a-BHC	5.995	0.000	42151	0	0.208	N.D.	#
3)	g-BHC	6.289	0.000	6581	0	0.038	N.D.	#
4)	b-BHC	6.350	0.000	12995	0	0.190	N.D.	#
5)	Heptachlor	6.681f	0.000	8482	0	0.052	N.D.	#
6)	d-BHC	6.553f	7.206f	17061	6707	0.122	0.055	#
7)	Aldrin	6.933	7.588f	9444	6083	0.056	0.046	
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	0.000	0.000	0	0	N.D.	N.D.	
10)	cis-Chlor...	7.591	0.000	10344	0	0.066	N.D.	#
11)	Endosulfa...	7.695	0.000	22365	0	0.156	N.D.	#
12)	4,4'-DDE	7.638f	8.361	5341	18063	0.037	0.157	#
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	0.000	8.724	0	3886	N.D.	0.045	#
15)	4,4'-DDD	8.087	8.763	7119	2489	0.059	0.026	#
16)	Endosulfa...	8.207	8.829f	5779	5383	0.048	0.059	
17)	4,4'-DDT	0.000	9.012	0	4115	N.D.	0.146	#
18)	Endrin Al...	8.516f	9.081f	5547	6127	BelowCal	3407.132	
19)	Endosulfa...	8.786	9.272f	2293	7473	0.019	0.089	#
20)	Methoxychlor	8.623	9.512f	5773	6681	0.179	0.304	#
21)	Endrin Ke...	8.953f	9.692	892428	10579	6.195	0.111	#
23)	Hexachlor...	3.244	3.660	24116	23229	2108.563	837.936	#
24)	Hexachlor...	5.844	6.469	40990	40055	0.105	0.124	
25)	Oxychlordane	0.000	7.917	0	2789	N.D.	3277.709	#
26)	2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)	trans-Non...	7.591	8.176	10344	19644	BelowCal	1953.385	
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	8.724	0	3886	N.D.	0.072	#
30)	cis-Nonac...	8.087f	8.763	7119	2489	BelowCal	2549.538	
31)	Mirex	8.733	9.692	28396	10579	7125.597	3567.373	#
32)	Chlordane...	7.695f	8.361f	22365	18063	1.267	1.249	
33)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)	Chlordane...	8.387f	9.081f	46297	6127	8.701	BelowCal	#
35)	Chlordane...	3.942f	0.000	7931	0	NoCal	N.D.	
36)	Toxaphene...	0.000	8.694	0	4063	N.D.	3.628	#
37)	Toxaphene...	8.087	9.012f	7119	4115	4.724	3.017	
38)	Toxaphene...	8.387f	9.081	46297	6127	14.885	2.823	#
39)	Toxaphene...	8.623f	0.000	5773	0	BelowCal	N.D.	
40)	Toxaphene...	0.000	9.344f	0	9144	N.D.	1.786	#
41)	Toxaphene...	8.953	9.692	892428	10579	294.197	5.227	#
42)	Toxaphene...	3.942f	0.000	7931	0	NoCal	N.D.	

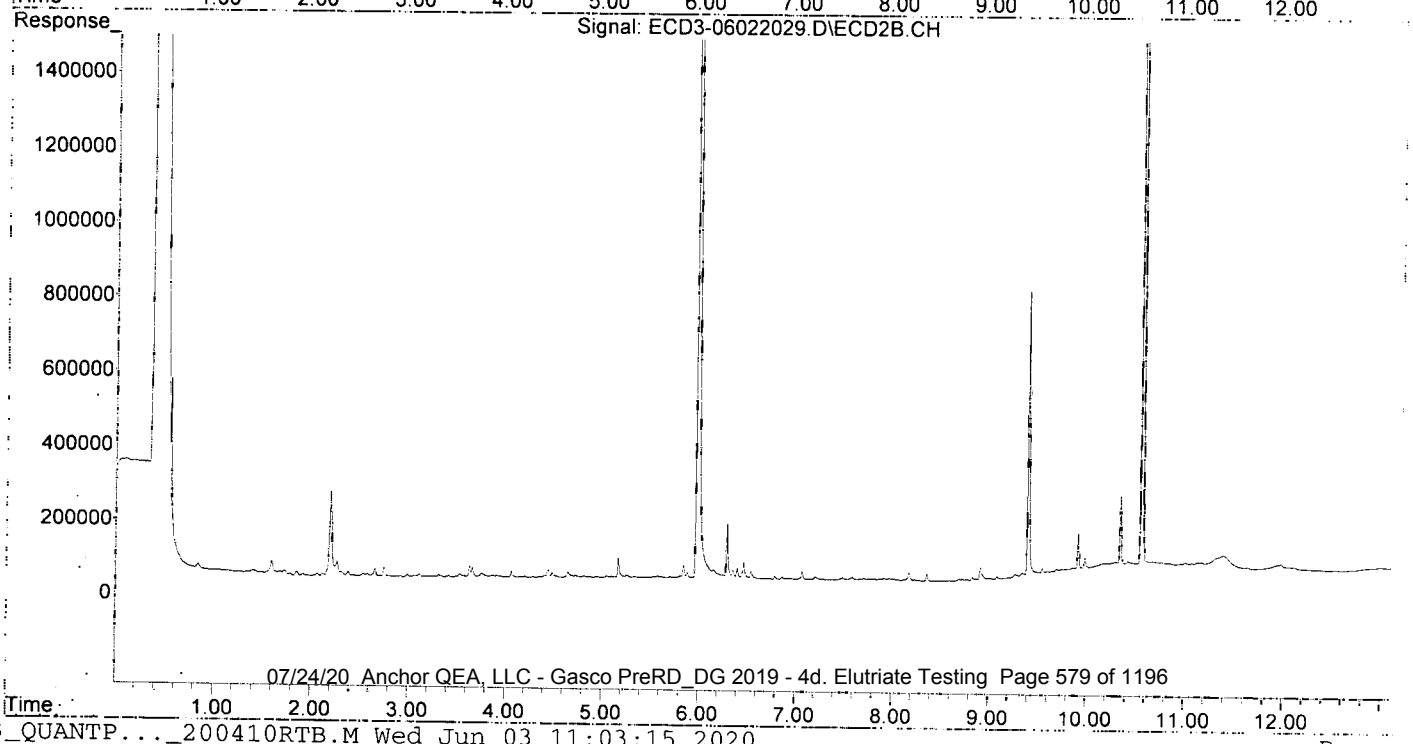
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:18
Operator : MJB
Sample : 0050955-BLK1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:35
Operator : MJB
Sample : 0050955-BS1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:18 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 6/3/20

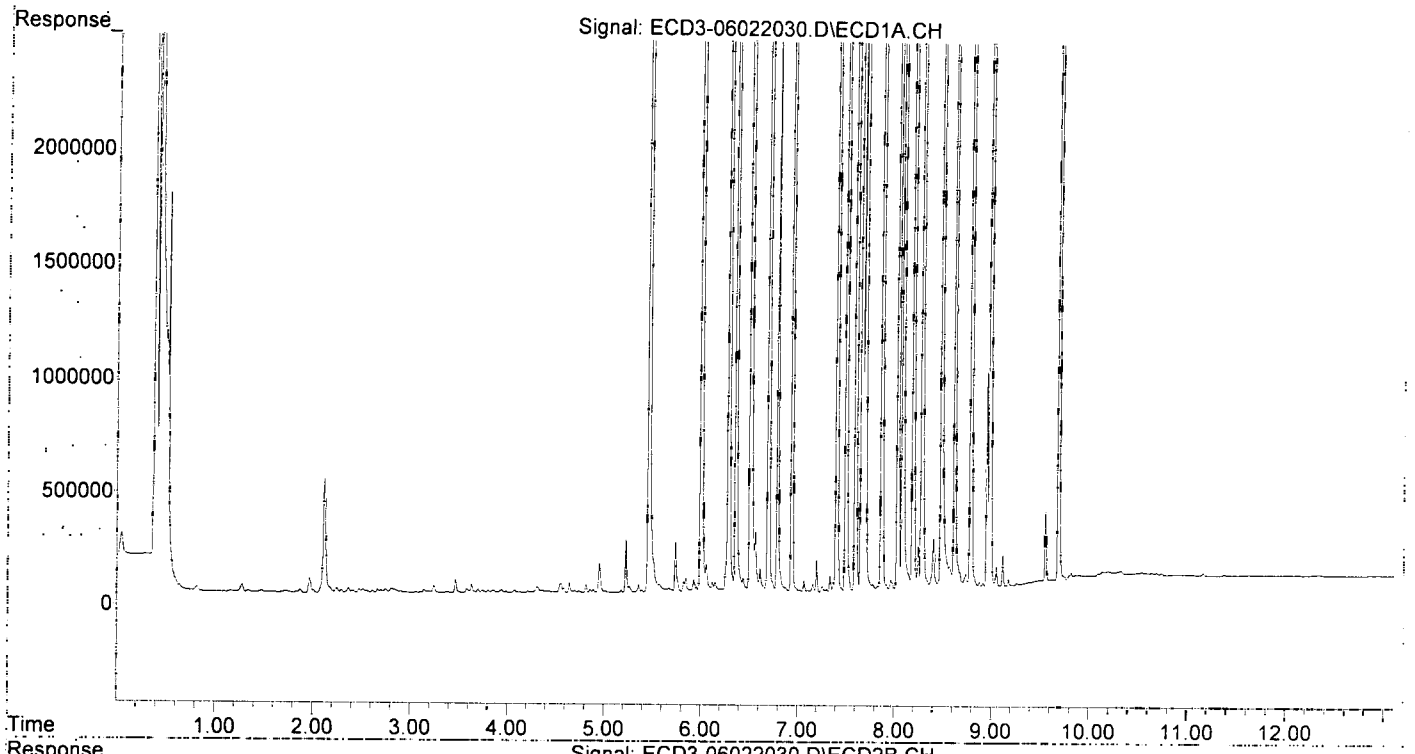
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.461	5.980	11680705	7828018	78.867	71.342	
22)	S	DCBP (S)	9.688	10.563	9221196	5284784	83.801	80.946	
		Target Compounds							
2)		a-BHC	6.002	6.588	20851680	14192037	103.076	90.410	
3)		g-BHC	6.287	6.907	18307230	12623966	106.017	93.702	
4)		b-BHC	6.361	6.972	7677380	5492252	112.535	89.427	
5)		Heptachlor	6.698	7.282	16177609	10714369	98.796	94.648	
6)		d-BHC	6.511	7.228	17903333	12266384	127.546	100.350	
7)		Aldrin	6.941	7.549	9373667	6847597	55.915	51.526	
8)		Heptachlo...	7.404	7.989	15555694	10980332	99.472	93.297	
9)		trans-Chl...	7.499	8.130	15618727	11259402	99.256	93.360	
10)		cis-Chlor...	7.598	8.238	14653649	10853786	93.353	93.707	
11)		Endosulfa...	7.696	8.288	14729652	10317557	102.630	95.943	
12)		4,4'-DDE	7.659	8.346	14799579	10579615	102.595	91.875	
13)		Dieldrin	7.869	8.490	16750436	11790176	104.226	98.462	
14)		Endrin	8.035	8.718	14216584	9415281	115.242	108.910	
15)		4,4'-DDD	8.084	8.764	13408947	9162090	110.448	97.091	
16)		Endosulfa...	8.192	8.866	13874275	9557684	114.616	104.208	
17)		4,4'-DDT	8.283	8.991	12571881	7846180	114.442	115.048	
18)		Endrin Al...	8.483	9.104	10237815	7537284	98.590	96.314	
19)		Endosulfa...	8.788	9.296	13764606	9466665	114.267	112.460	
20)		Methoxychlor	8.619	9.472	6325245	4029304	122.499	122.679	
21)		Endrin Ke...	8.984	9.697	15801574	10162134	109.697	106.214	
23)		Hexachlor...	3.244	3.660	30060	29338	0.012	837.899	#
24)		Hexachlor...	5.845	6.468	63218	48716	0.272	0.203	
25)		Oxychlordane	7.338	7.922	70100	50627	0.342	0.293	
26)		2,4'-DDE	7.404	8.130	15555694	11259402	163.946	156.753	
27)		trans-Non...	7.598	8.187	14653649	49446	101.146	0.228	#
28)		2,4'-DDD	0.000	8.490	0	11790176	N.D.	187.910	#
29)		2,4'-DDT	7.966	8.718	43302	9415281	0.575	175.528	#
30)		cis-Nonac...	8.084	8.764	13408947	9162090	86.197	81.099	
31)		Mirex	8.735	9.697	60471	10162134	0.241	156.485	#
32)		Chlordane...	7.696f	8.346	14729652	10579615	834.519	731.282	
33)		Chlordane...	7.828	0.000	18283	0	0.882	N.D.	#
34)		Chlordane...	8.404f	9.104	218978	7537284	41.156	2083.950	#
35)		Chlordane...	3.941f	0.000	11966	0	NoCal	N.D.	
36)		Toxaphene...	7.828f	8.685	18283	21119	21.964	18.857	
37)		Toxaphene...	8.084	9.068f	13408947	28049	8898.747	20.563	#
38)		Toxaphene...	8.404	9.068	218978	28049	70.403	12.924	#
39)		Toxaphene...	8.676	9.104f	69381	7537284	18.750	2224.302	#
40)		Toxaphene...	8.880	9.296f	21370	9466665	9.074	4662.163	#
41)		Toxaphene...	8.953	9.697	951978	10162134	313.828	5020.834	#
42)		Toxaphene...	3.941f	0.000	11966	0	NoCal	N.D.	

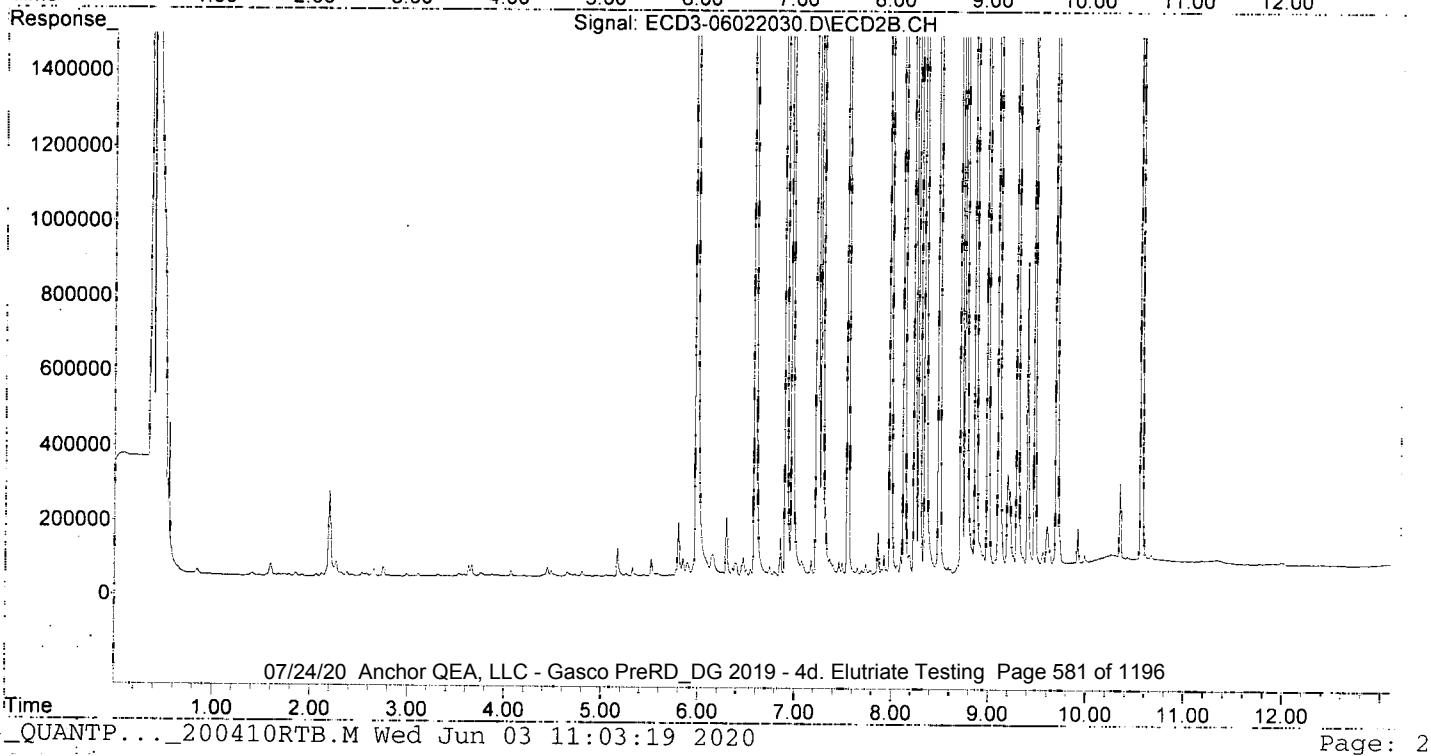
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:35
Operator : MJB
Sample : 0050955-BS1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:18 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:52
Operator : MJB
Sample : 0050955-BSD1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q-11 MB 6/3/20

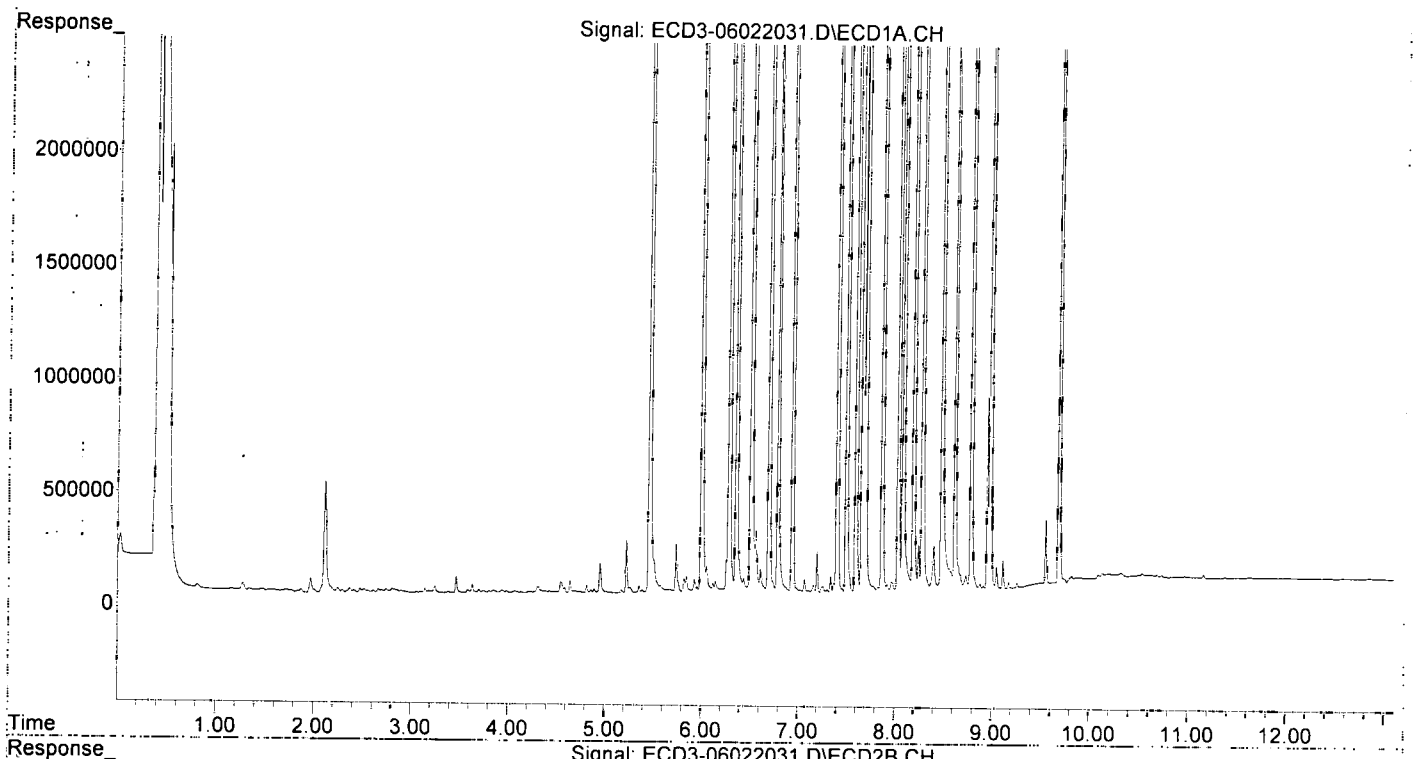
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.461	5.979	11360992	7611743	76.708	69.288	
22)	S DCBP (S)	9.688	10.563	7746909	4874407	70.397	74.420	
	Target Compounds							
2)	a-BHC	6.001	6.588	20274876	14003113	100.225	89.207	
3)	g-BHC	6.286	6.907	17718461	12737796	102.607	94.546	
4)	b-BHC	6.360	6.971	7449554	5502395	109.196	89.592	
5)	Heptachlor	6.699	7.281	15310578	10121028	93.501	89.406	
6)	d-BHC	6.511	7.227	17074626	12002503	121.642	98.191	
7)	Aldrin	6.940	7.548	9766537	7346541	58.259	55.280	
8)	Heptachlo...	7.404	7.989	15330796	11053405	98.034	93.918	
9)	trans-Chl...	7.499	8.129	15189442	10961382	96.528	90.888	
10)	cis-Chlor...	7.598	8.238	14531279	10159435	92.574	87.712	
11)	Endosulfa...	7.695	8.288	14531541	10168462	101.250	94.557	
12)	4,4'-DDE	7.659	8.346	14424429	9972781	99.994	86.606	
13)	Dieldrin	7.869	8.489	16369206	11534871	101.854	96.330	
14)	Endrin	8.035	8.718	14038625	9195682	113.799	106.370	
15)	4,4'-DDD	8.084	8.765	12890684	8766004	106.179	92.893	
16)	Endosulfa...	8.191	8.866	13294202	9513739	109.824	103.729	
17)	4,4'-DDT	8.282	8.992	11409365	7310013	105.654	108.437	
18)	Endrin Al...	8.483	9.105	9987349	7600488	96.192	97.148	
19)	Endosulfa...	8.788	9.296	13145023	9101612	109.124	108.124	
20)	Methoxychlor	8.619	9.473	6243563	3980049	121.186	121.444	
21)	Endrin Ke...	8.984	9.697	15428393	9776829	107.107	102.187	
23)	Hexachlor...	3.244	3.660	28075	27392	0.000	837.911	#
24)	Hexachlor...	5.845	6.451	74411	32623	0.356	0.056	#
25)	Oxychlordane	7.338	7.922	70093	59005	0.342	0.378	
26)	2,4'-DDE	7.404	8.129	15330796	10961382	161.681	152.253	
27)	trans-Non...	7.598	8.178	14531279	62674	100.309	0.348	#
28)	2,4'-DDD	0.000	8.489	0	11534871	N.D.	183.567	#
29)	2,4'-DDT	7.966	8.718	39917	9195682	0.530	171.434	#
30)	cis-Nonac...	8.084	8.765	12890684	8766004	82.902	77.469	
31)	Mirex	8.735	9.697	59562	9776829	0.232	150.261	#
32)	Chlordane...	7.695f	8.346	14531541	9972781	823.295	689.336	
33)	Chlordane...	7.828	0.000	17371	0	0.838	N.D.	#
34)	Chlordane...	8.404f	9.105	193546	7600488	36.376	2101.404	#
35)	Chlordane...	3.985	0.000	6706	0	NoCal	N.D.	
36)	Toxaphene...	7.828f	8.684	17371	20278	20.869	18.105	
37)	Toxaphene...	8.084	0.000	12890684	0	8554.806	N.D.	#
38)	Toxaphene...	8.404	9.105f	193546	7600488	62.226	3501.972	#
39)	Toxaphene...	8.677	9.105f	64976	7600488	17.177	2241.716	#
40)	Toxaphene...	8.881	9.296f	22107	9101612	9.387	4499.358	#
41)	Toxaphene...	8.953	9.697	850118	9776829	280.249	4830.465	#
42)	Toxaphene...	3.985	0.000	6706	0	NoCal	N.D.	

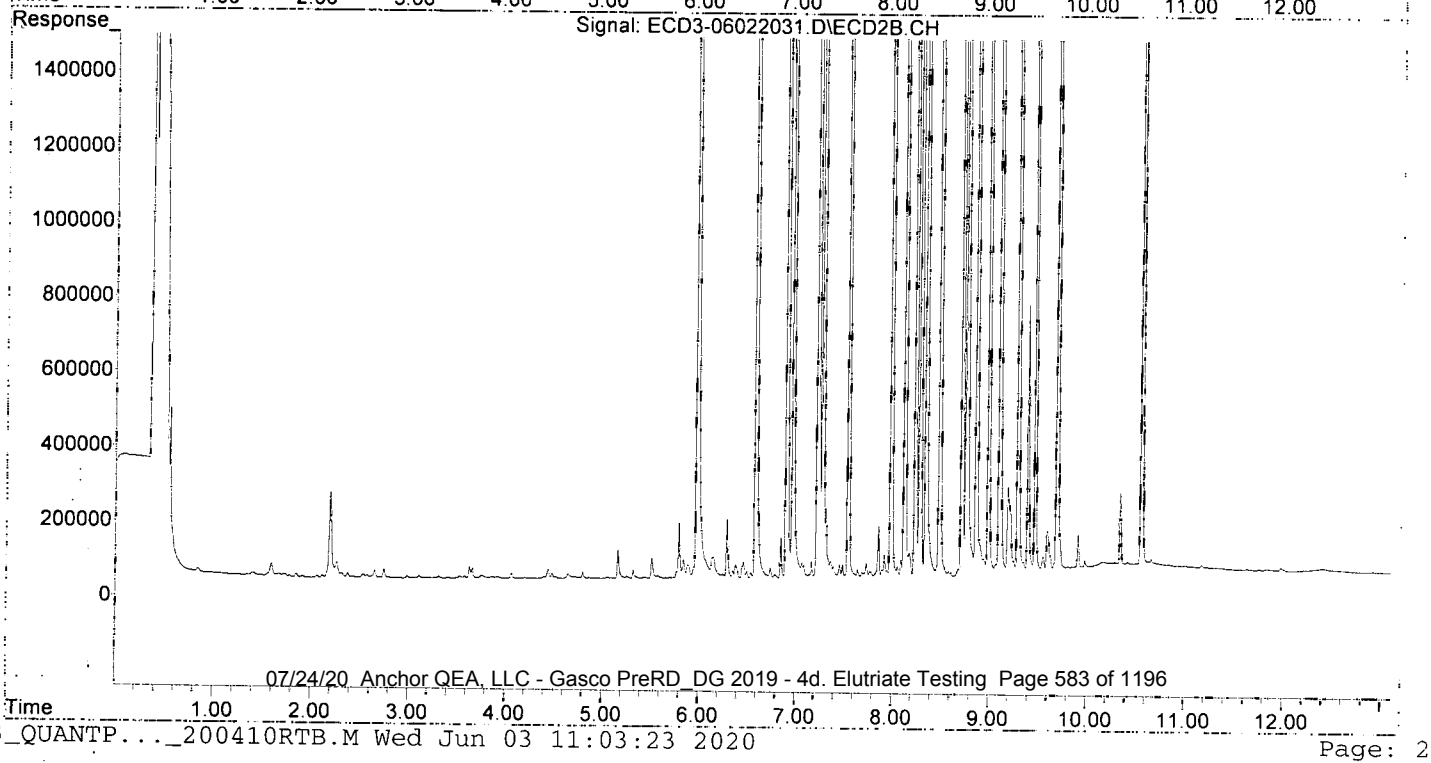
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 0:52
Operator : MJB
Sample : 0050955-BSD1
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:09
Operator : MJB
Sample : 0F02064-CCV5
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

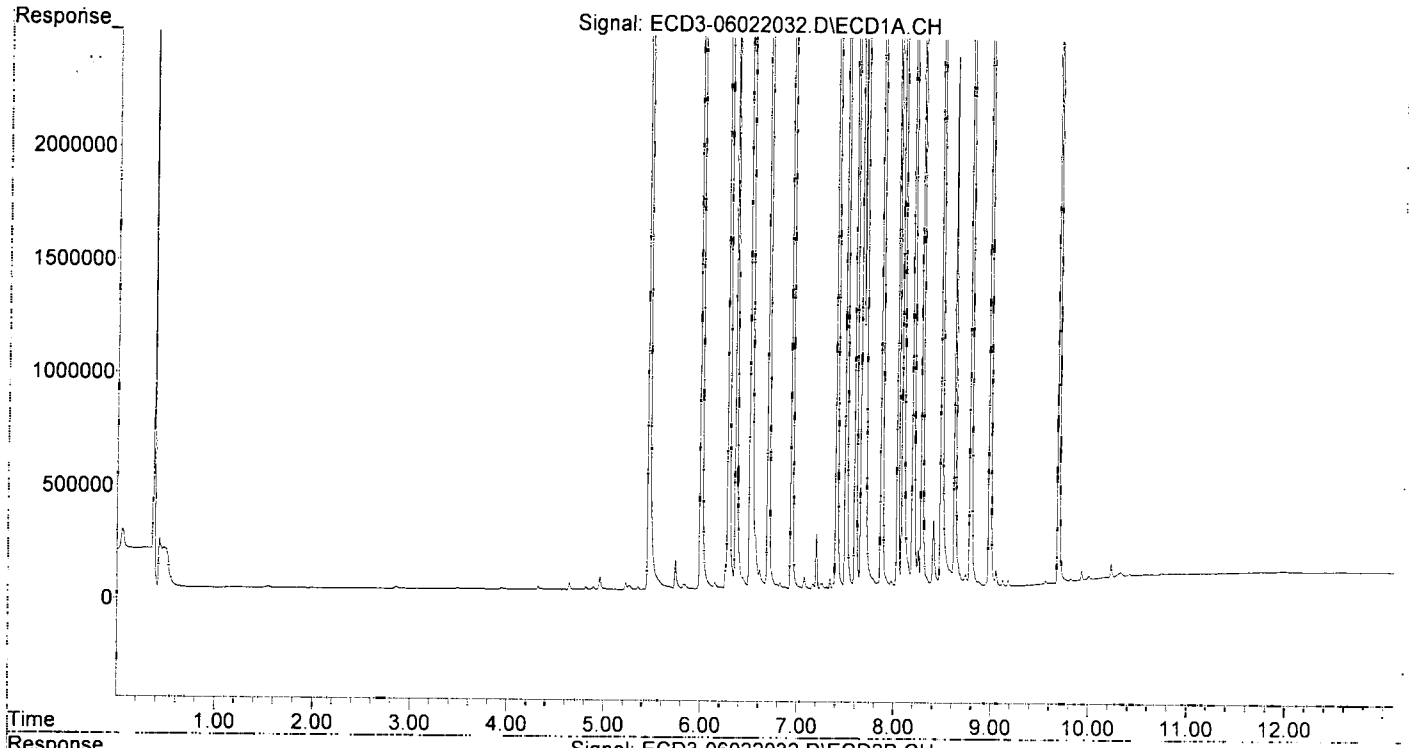
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.461	5.981	7761106	4802293	52.402	43.039	
22)	S	DCBP (S)	9.690	10.564	6065265	3876517	55.094	58.715	
		Target Compounds							
2)		a-BHC	6.002	6.588	11377940	8082219	56.244	51.488	
3)		g-BHC	6.286	6.908	9939243	7119949	57.558	52.848	
4)		b-BHC	6.362	6.973	3552425	2669768	52.072	43.470	
5)		Heptachlor	6.699	7.282	9473637	6514928	57.855	57.551	
6)		d-BHC	6.513	7.230	7366588	5738670	52.481	46.947	
7)		Aldrin	6.941	7.549	9588485	7279348	57.197	54.774	
8)		Heptachlo...	7.405	7.990	8584426	6384252	54.894	54.245	
9)		trans-Chl...	7.501	8.131	8632337	6651775	54.858	55.154	
10)		cis-Chlor...	7.599	8.239	8535976	6357816	54.380	54.890	
11)		Endosulfa...	7.697	8.289	8274761	5820888	57.655	54.129	
12)		4,4'-DDE	7.663	8.349	7826971	5846806	54.259	50.775	
13)		Dieldrin	7.870	8.490	9056160	6585978	56.350	~~55.001~~	
14)		Endrin	8.036	8.718	4877678	3253535	~~39.539~~	37.635	Q-31
15)		4,4'-DDD	8.088	8.766	6365367	4694021	52.431	49.743	
16)		Endosulfa...	8.194	8.867	6841439	4942224	56.517	53.885	
17)		4,4'-DDT	8.286	8.993	4984022	3302374	51.656	54.195	Q-41
18)		Endrin Al...	8.485	9.105	6525973	4732141	~~62.955~~	59.716	
19)		Endosulfa...	8.789	9.297	6785639	4763976	56.331	56.594	
20)		Methoxychlor	8.624	9.475	2347582	1435776	51.679	50.148	
21)		Endrin Ke...	8.985	9.698	8726200	5456482	60.579	57.031	Q-41
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.845	0.000	17579	0	BelowCal	N.D.	
25)		Oxychlordane	7.341	7.902	43906	12417	0.139	3277.612	#
26)		2,4'-DDE	7.405	8.131	8584426	6651775	92.351	89.476	
27)		trans-Non...	7.599	8.188	8535976	44471	59.094	0.183	#
28)		2,4'-DDD	0.000	8.490	0	6585978	N.D.	101.888	#
29)		2,4'-DDT	7.969	8.718	29495	3253535	0.392	60.655	#
30)		cis-Nonac...	8.088f	8.766	6365367	4694021	41.118	40.765	
31)		Mirex	8.738	9.698	53394	5456482	0.169	82.032	#
32)		Chlordane...	7.697	8.349	8274761	5846806	468.812	404.142	
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	8.407f	9.105	296067	4732141	55.644	1308.343	#
35)		Chlordane...	3.943f	0.000	5129	0	NoCal	N.D.	
36)		Toxaphene...	0.000	8.718f	0	3253535	N.D.	2904.990	#
37)		Toxaphene...	8.088	0.000	6365367	0	4224.328	N.D.	#
38)		Toxaphene...	8.407	9.105f	296067	4732141	95.187	2180.364	#
39)		Toxaphene...	8.624f	9.105f	2347582	4732141	800.600	1431.311	#
40)		Toxaphene...	0.000	9.297f	0	4763976	N.D.	2471.041	#
41)		Toxaphene...	8.985f	9.698	8726200	5456482	2876.669	2695.899	
42)		Toxaphene...	3.943f	0.000	5129	0	NoCal	N.D.	

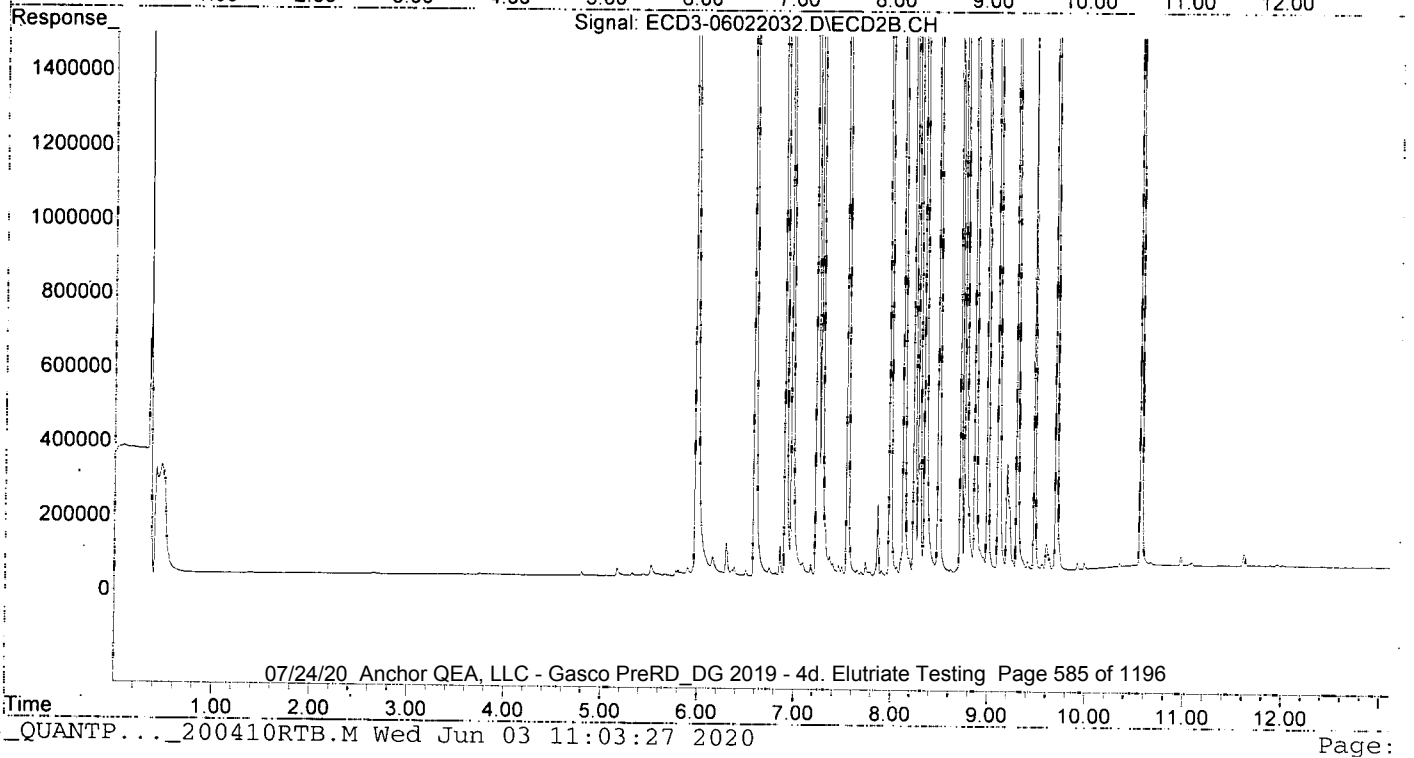
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:09
Operator : MJB
Sample : 0F02064-CCV5
Misc : A20E232, AB 50 ppb
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:26
Operator : MJB
Sample : 0F02064-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:31 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

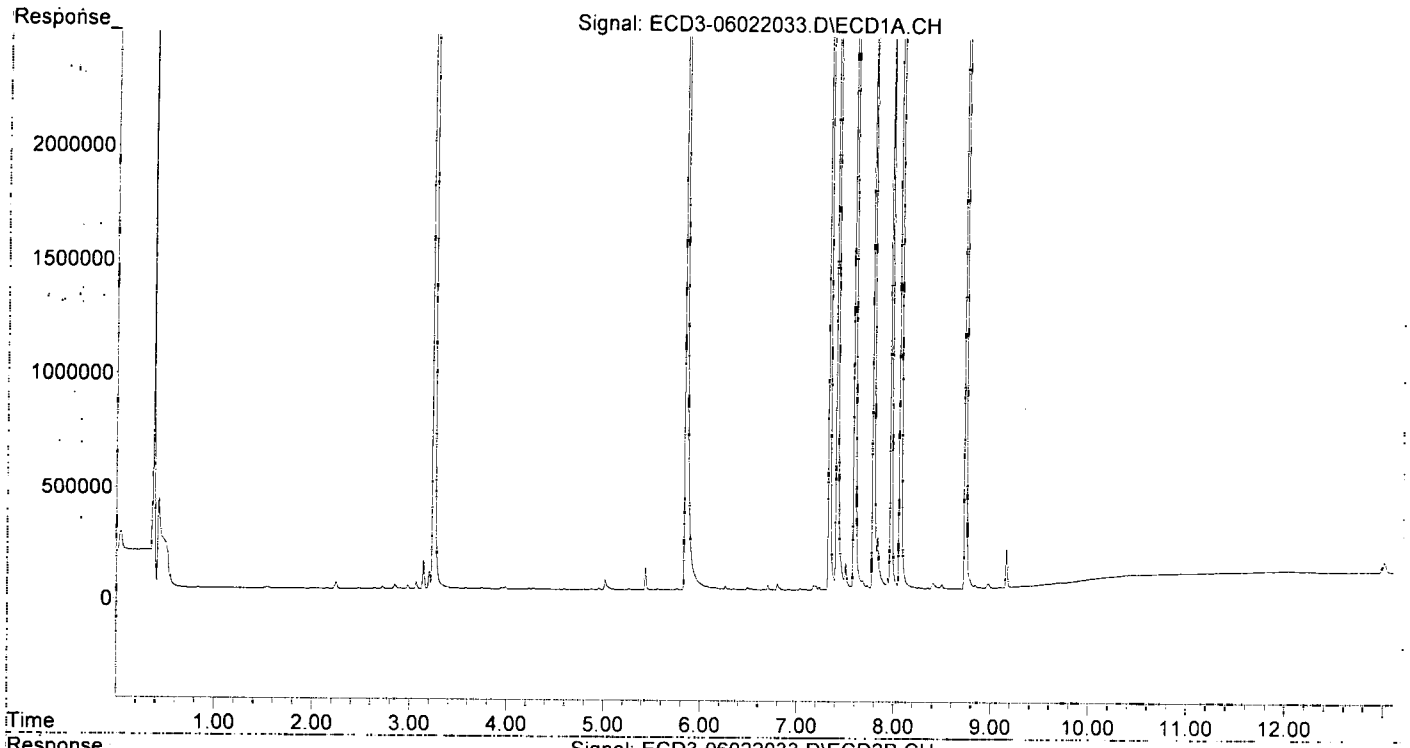
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.434f	0.000	98346	0	0.664	N.D.	#
22) S	DCBP (S)	0.000	10.530f	0	4493	N.D.	2280.023	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.261f	0.000	12666	0	0.073	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.700	7.284	21863	15427	0.134	0.136	
6)	d-BHC	6.490f	7.242	6660	3561	0.047	0.029	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.412	8.028f	4693591	27117	30.013	0.230	#
9)	trans-Chl...	7.503	8.127	112357	3729931	0.714	30.927	#
10)	cis-Chlor...	7.592	8.239	7949107	281766	50.641	2.433	#
11)	Endosulfa...	7.681	8.304	27022	28176	0.188	0.262	
12)	4,4'-DDE	7.681	0.000	27022	0	0.187	N.D.	#
13)	Dieldrin	7.834f	8.502	223890	3351441	1.393	27.989	#
14)	Endrin	8.066f	8.726	8280923	2621863	67.126	30.328	#
15)	4,4'-DDD	8.066f	8.765	8280923	6301027	68.209	66.772	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.498	9.109	18834	8272	BelowCal	3407.105	
19)	Endosulfa...	0.000	9.300	0	4118	N.D.	0.049	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.978	9.690	18876	3727402	0.131	38.959	#
23)	Hexachlor...	3.246	3.661	9647516	8198815	57.035	52.949	
24)	Hexachlor...	5.847	6.452	6429149	4385426	47.527	40.740	
25)	Oxychlordane	7.334	7.920	7008783	5283475	53.706	54.221	
26)	2,4'-DDE	7.412	8.127	4693591	3729931	51.050	49.102	
27)	trans-Non...	7.592	8.195	7949107	5905484	55.040	54.823	
28)	2,4'-DDD	7.787	8.502	4225432	3351441	51.489	50.855	
29)	2,4'-DDT	7.970	8.726	3794454	2621863	50.405	48.879	
30)	cis-Nonac...	8.066	8.765	8280923	6301027	53.444	55.118	
31)	Mirex	8.738	9.690	5279053	3727402	53.359	55.481	
32)	Chlordane...	7.681f	8.304f	27022	28176	1.531	1.948	
33)	Chlordane...	7.834f	0.000	223890	0	10.804	N.D.	#
34)	Chlordane...	8.407f	9.109	25642	8272	4.819	BelowCal	#
35)	Chlordane...	3.986	0.000	10573	0	NoCal	N.D.	
36)	Toxaphene...	7.787	0.000	4225432	0	5076.111	N.D.	#
37)	Toxaphene...	8.066f	0.000	8280923	0	5495.573	N.D.	#
38)	Toxaphene...	8.407	9.109f	25642	8272	8.244	3.812	#
39)	Toxaphene...	0.000	9.109f	0	8272	N.D.	BelowCal	
40)	Toxaphene...	0.000	9.300	0	4118	N.D.	BelowCal	
41)	Toxaphene...	8.978	9.690	18876	3727402	6.223	1841.608	#
42)	Toxaphene...	3.986	0.000	10573	0	NoCal	N.D.	

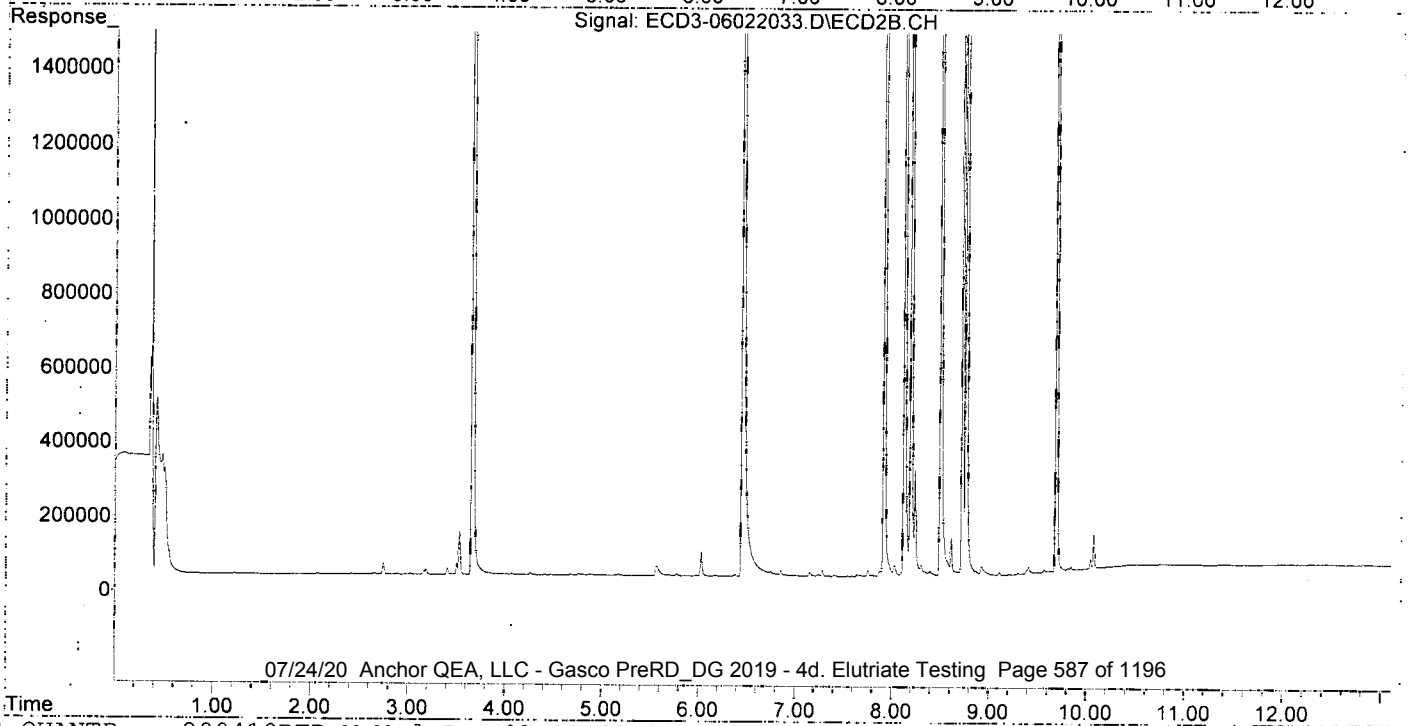
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:26
Operator : MJB
Sample : 0F02064-CCV6
Misc : A20C358, 9-42 50 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:31 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

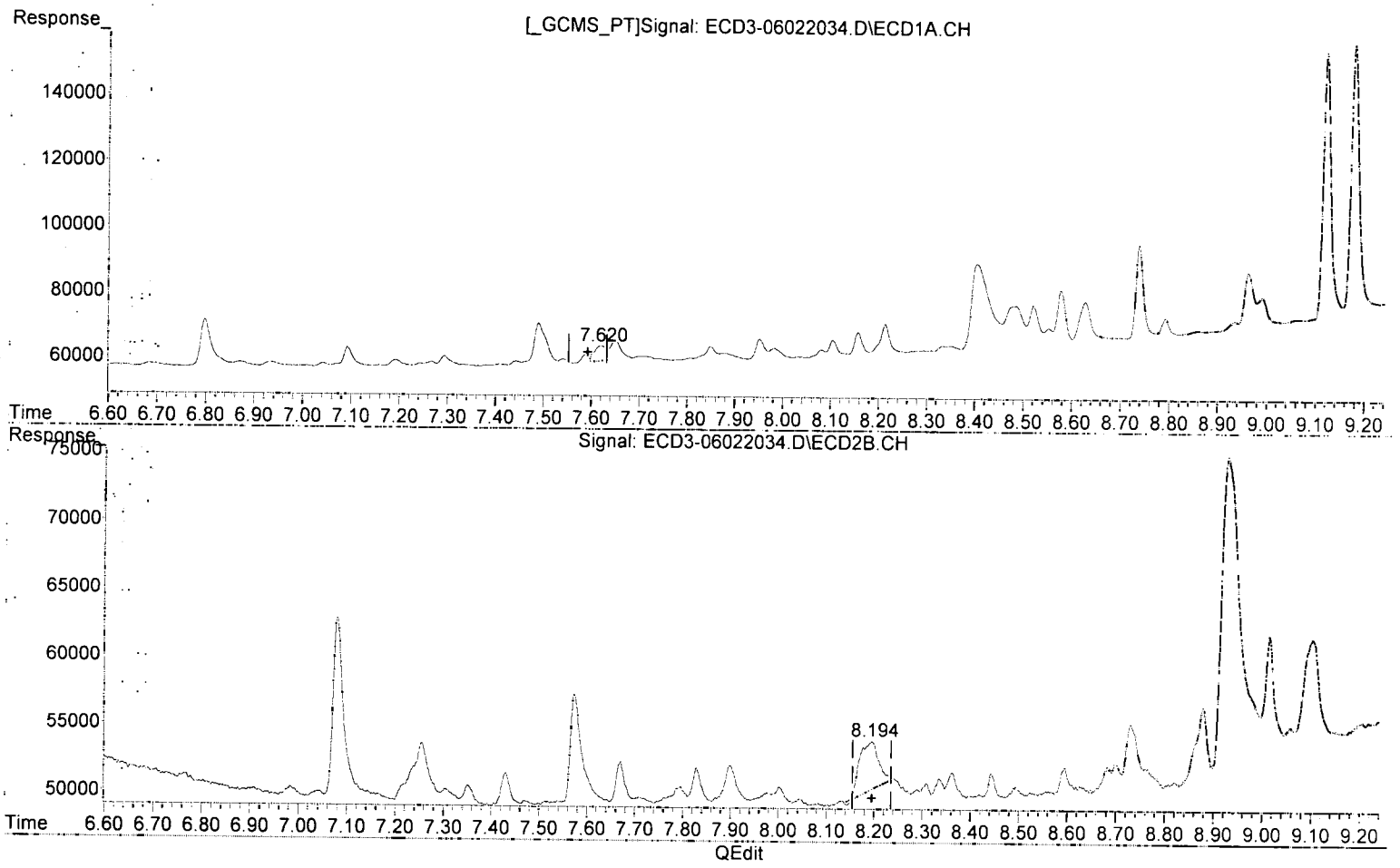
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.461	5.981	14688491	9045814	99.175	82.996	
22)	S	DCBP (S)	9.690	10.563	11127985	6938449	101.119	107.661	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	7.255f	0	3886	N.D.	0.034	#
6)		d-BHC	0.000	7.255f	0	3886	N.D.	0.032	#
7)		Aldrin	0.000	7.572f	0	7887	N.D.	0.059	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.489	0.000	12114	0	0.077	N.D.	#
10)		cis-Chlor...	7.620	0.000	4543	0	0.029	N.D.	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	7.650	0.000	5890	0	0.041	N.D.	#
13)		Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)		Endrin	0.000	8.730	0	3637	N.D.	0.042	#
15)		4,4'-DDD	8.104	8.730f	4313	3637	0.036	0.039	
16)		Endosulfa...	8.213	8.878	8733	4683	0.072	0.051	
17)		4,4'-DDT	0.000	9.014f	0	8525	N.D.	0.227	#
18)		Endrin Al...	8.485	9.102	11664	7376	BelowCal	~~3407.116~~	Q-QC
19)		Endosulfa...	8.792	9.298	5012	3210	0.042	0.038	
20)		Methoxychlor	8.627	0.000	11481	0	0.318	N.D.	#
21)		Endrin Ke...	8.990	9.697	8244	4730	0.057	0.049	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.846	0.000	27341	0	0.002	N.D.	#
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)		trans-Non...	7.620f	8.195	4543	3535	BelowCal	~~1953.531~~	Q-QC
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	7.951	8.730	4585	3637	0.061	0.068	
30)		cis-Nonac...	8.104f	8.730f	4313	3637	BelowCal	~~3549.528~~	Q-QC
31)		Mirex	8.738	9.697	28058	4730	~~7125.601~~	~~3567.459~~	#
32)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	8.403f	9.102	25423	7376	4.778	BelowCal	#
35)		Chlordane...	3.942f	0.000	4758	0	NoCal	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	8.104	9.014f	4313	8525	2.862	6.250	#
38)		Toxaphene...	8.403	9.102f	25423	7376	8.174	3.399	#
39)		Toxaphene...	8.627f	9.102f	11481	7376	BelowCal	BelowCal	
40)		Toxaphene...	0.000	9.298	0	3210	N.D.	BelowCal	
41)		Toxaphene...	8.962	9.697	16467	4730	5.428	2.337	#
42)		Toxaphene...	3.942f	0.000	4758	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.620min -0.177 ng/mL

response 4543

MJB 6/3/20

(27) trans-Nonachlor #2

8.195min 1953.531 ng/mL Q-2d1

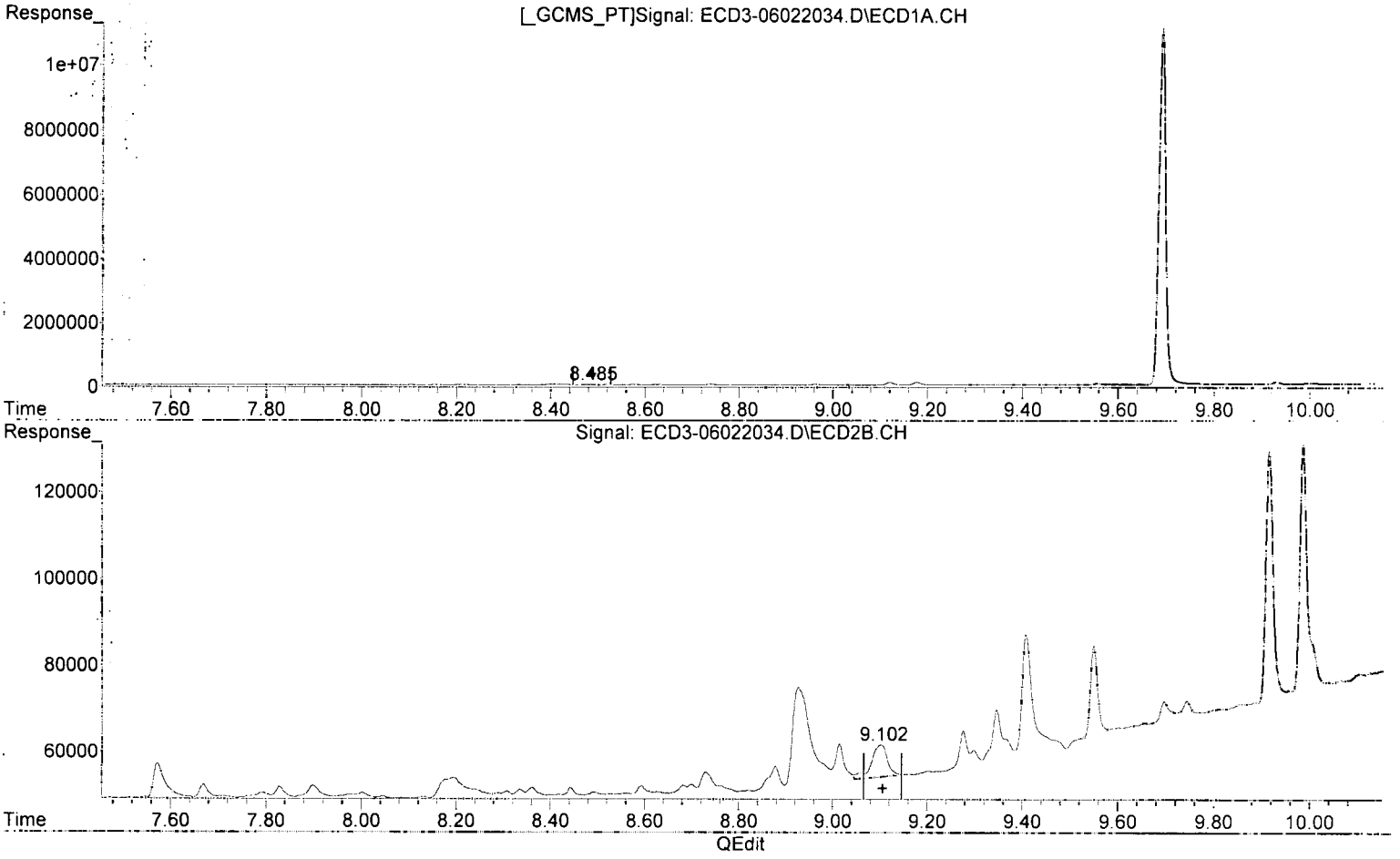
response 3535

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:42:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.485min -0.112 ng/mL

response 11664

MJB 07/31/20

(18) Endrin Aldehyde #2

9.102min 3407.116 ng/mL QDU

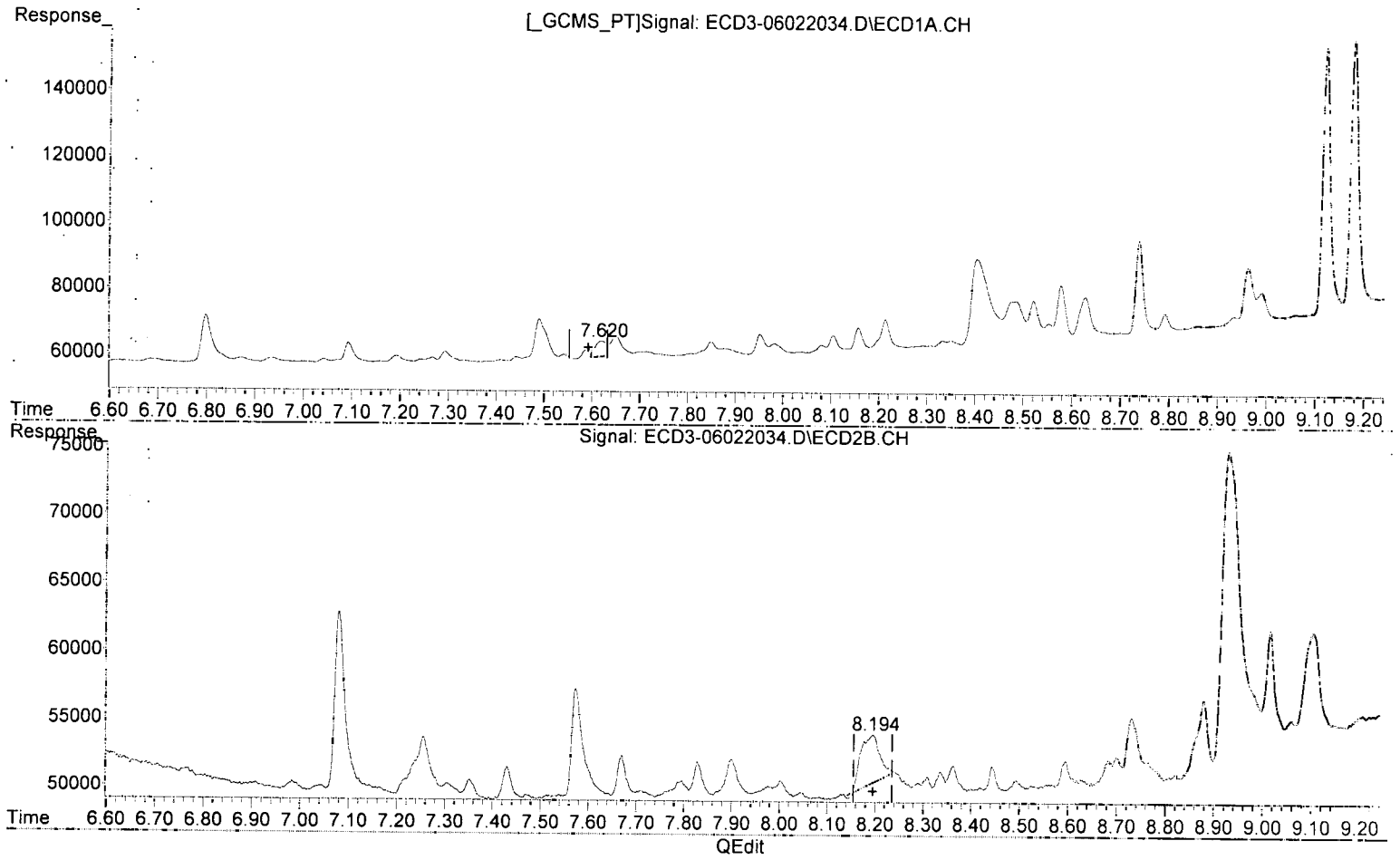
response 7376

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.620min -0.177 ng/mL

response 4543

MR 6/3/20

(27) trans-Nonachlor #2

8.195min 1953.531 ng/mL Q-peak

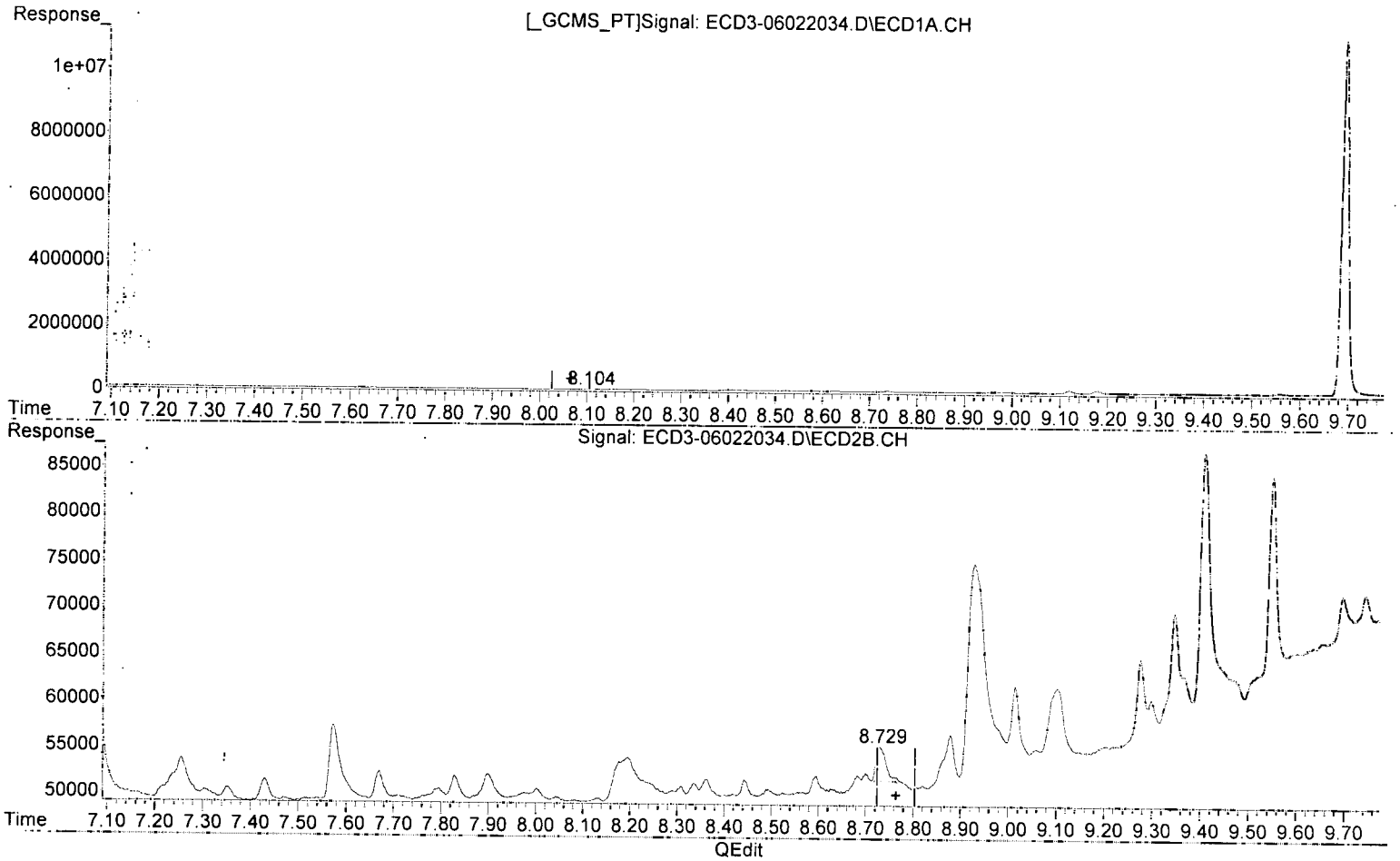
response 3535

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:43:14 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.104min -0.184 ng/mL

response 4313

MJB 6/3/20

(30) cis-Nonachlor #2

8.730min 2549.526 ng/mL Q-OK

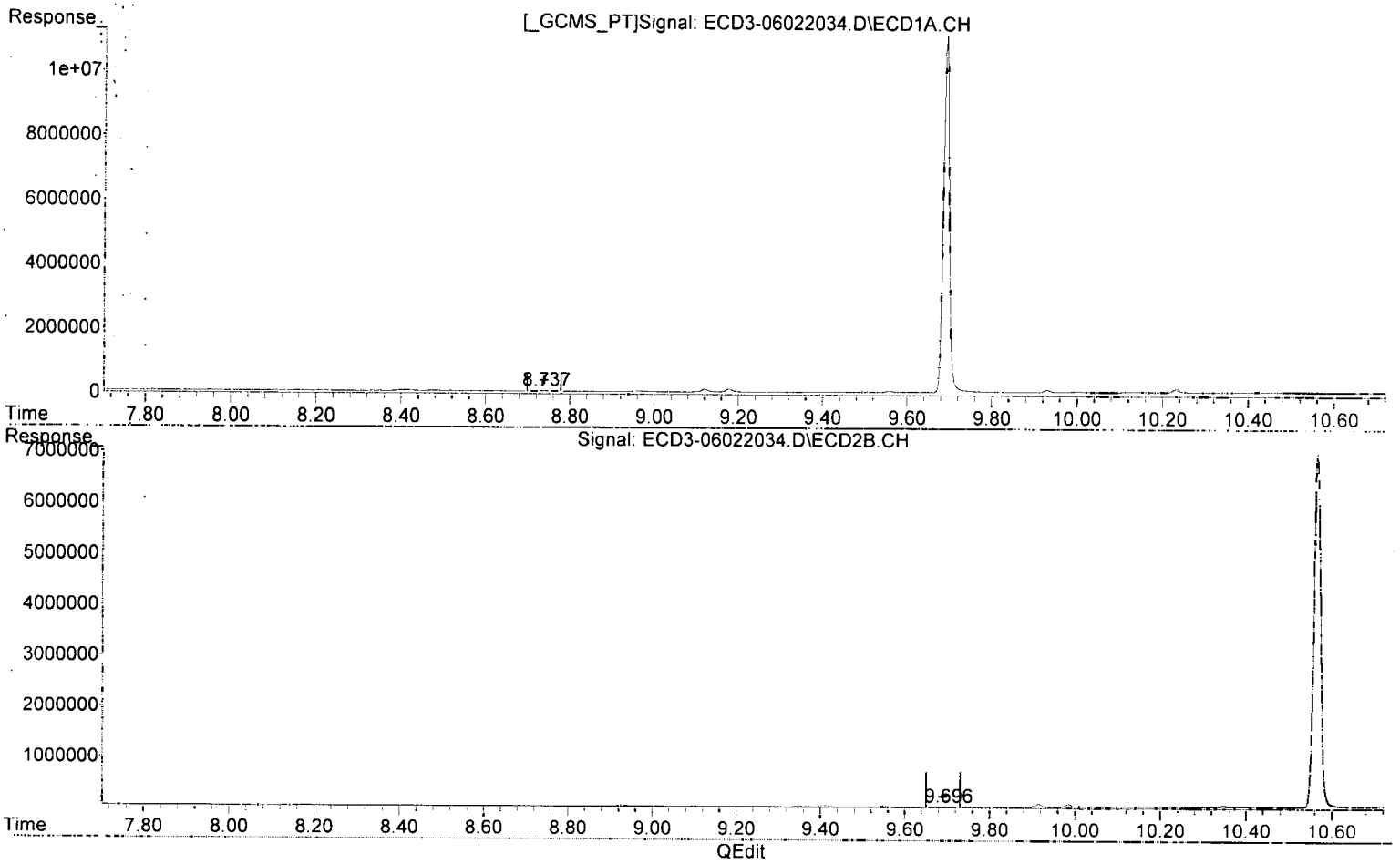
response 3637

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.738min 7125.601 ng/mL

response 28058

Q-DU

MB 6/3/20

(31) Mirex #2

9.697min 3567.459 ng/mL

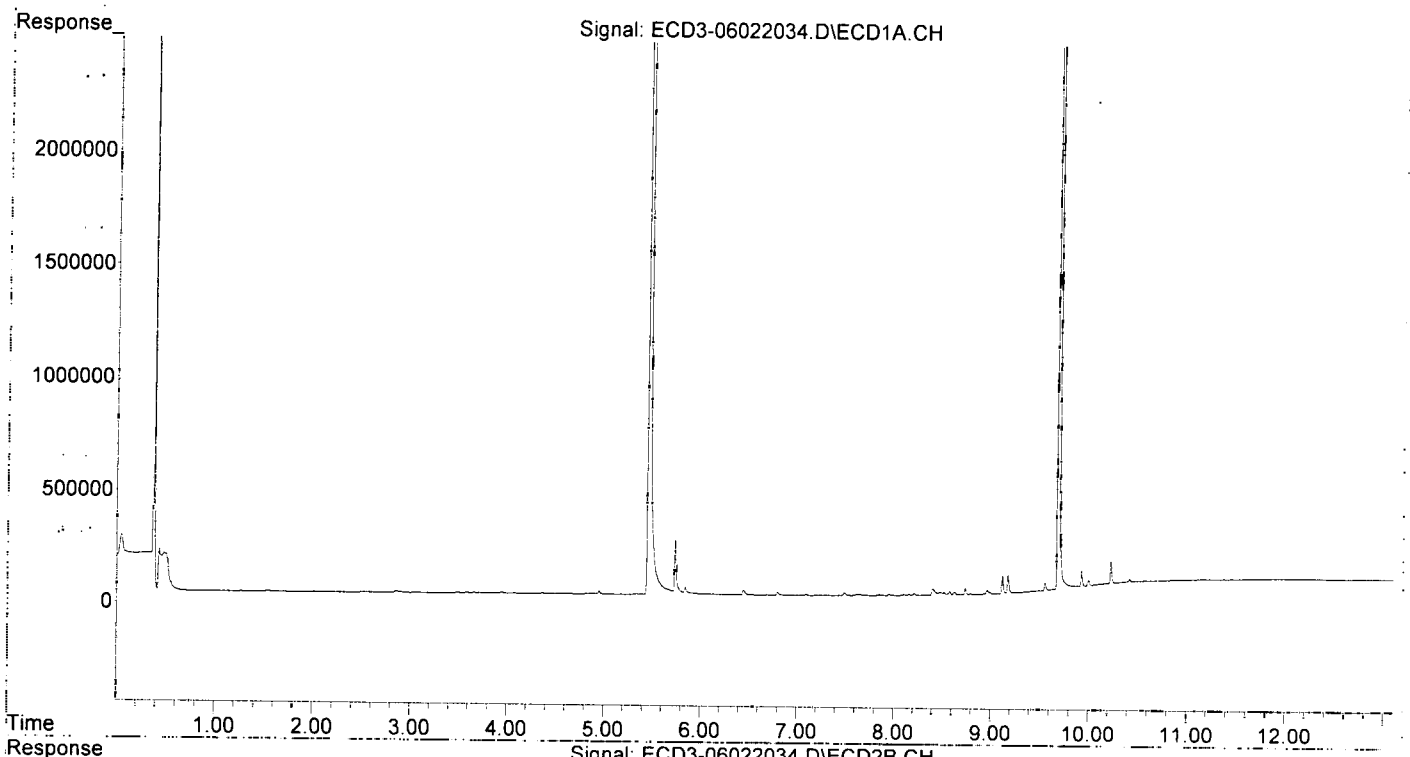
response 14730

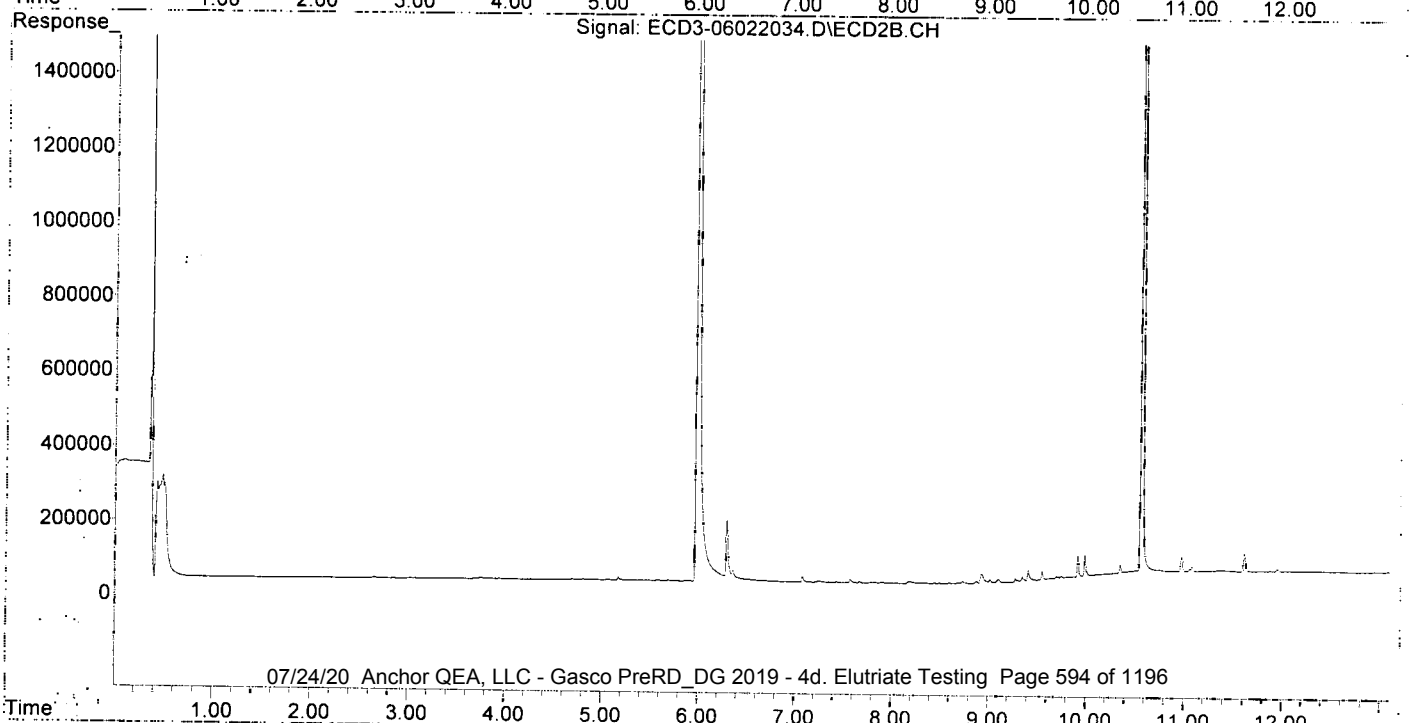
(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:43:27 2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 1:43
Operator : MJB
Sample : 0F02064-CCB3
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:01
Operator : MJB
Sample : 0050955-BS2
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 6/3/20

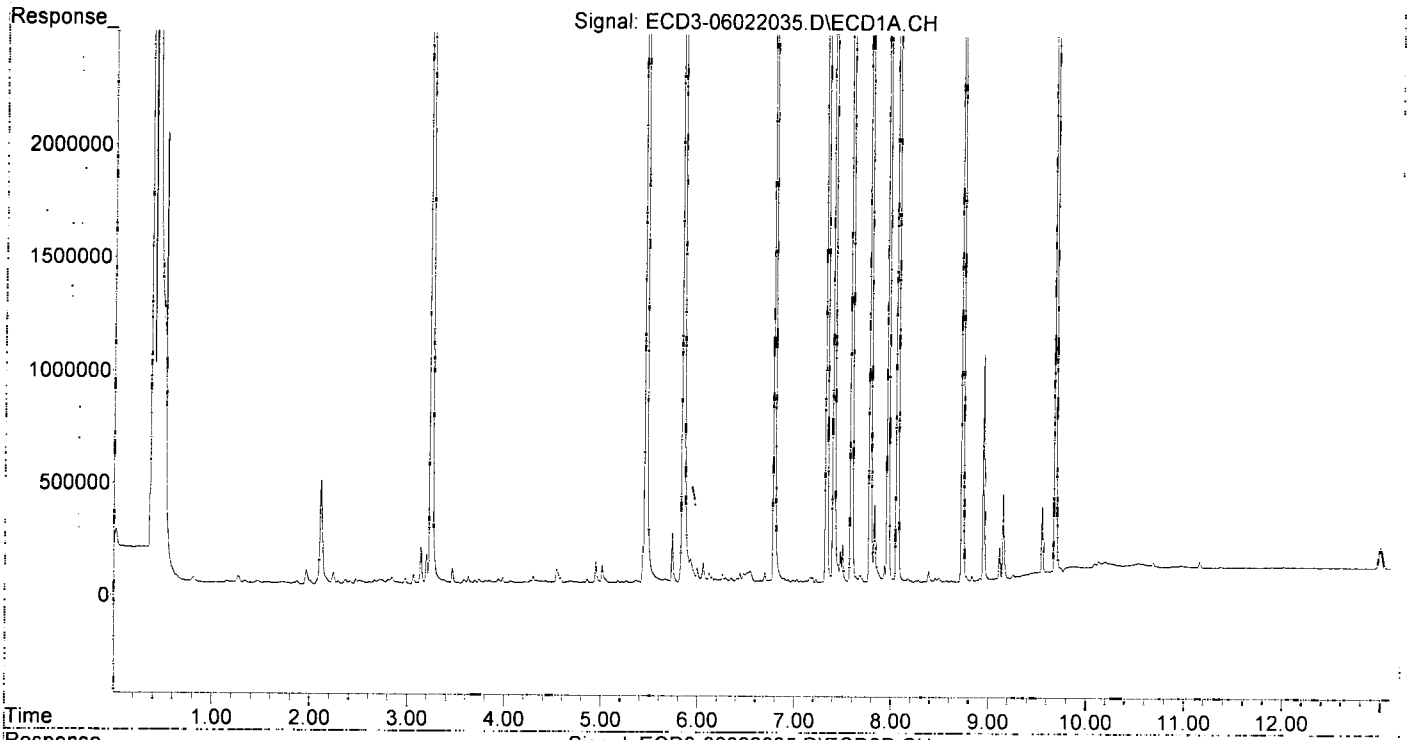
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.461	5.980	11695960	7786889	78.970	70.951	
22)	S	DCBP (S)	9.687	10.563	8806684	5192523	80.033	79.475	
		Target Compounds							
2)		a-BHC	5.996	0.000	66823	0	0.330	N.D.	#
3)		g-BHC	6.288	0.000	21560	0	0.125	N.D.	#
4)		b-BHC	6.348	0.000	22545	0	0.330	N.D.	#
5)		Heptachlor	6.697	7.282	45773	29748	0.280	0.263	
6)		d-BHC	6.550f	7.231	49812	8610	0.355	0.070	#
7)		Aldrin	6.934	7.587f	13923	7643	0.083	0.058	
8)		Heptachlo...	7.407	7.969f	9170996	28469	58.644	0.242	#
9)		trans-Chl...	7.499	8.124	170388	6829615	1.083	56.629	#
10)		cis-Chlor...	7.588	0.000	14047233	0	89.490	N.D.	#
11)		Endosulfa...	7.693	8.303	31836	26596	0.222	0.247	
12)		4,4'-DDE	7.677	8.361	32794	18131	0.227	0.157	
13)		Dieldrin	7.855	8.498	72094	6445179	0.449	53.825	#
14)		Endrin	8.062f	8.723	16355846	6066108	132.583	70.169	#
15)		4;4'-DDD	8.062f	8.762	16355846	11413420	134.722	120.948	
16)		Endosulfa...	8.174f	8.828f	17458	15059	0.144	0.164	
17)		4,4'-DDT	8.282	8.990	10691	6598	0.217	0.191	
18)		Endrin Al...	8.494	9.107	17944	6604	BelowCal	3407.126	
19)		Endosulfa...	0.000	9.296	0	5266	N.D.	0.063	#
20)		Methoxychlor	8.621	0.000	6129	0	0.188	N.D.	#
21)		Endrin Ke...	8.952f	9.688	1002868	6558431	6.962	68.549	#
23)		Hexachlor...	3.243	3.660	12421643	10467968	74.100	69.085	
24)		Hexachlor...	5.845	6.449	11756741	8271569	86.219	78.432	
25)		Oxychlordane	7.331	7.917	12476149	8993613	95.393	93.595	
26)		2,4'-DDE	7.407	8.124	9170996	6829615	98.491	91.987	
27)		trans-Non...	7.588	8.193	14047233	10255498	96.994	97.569	
28)		2,4'-DDD	7.781	8.498	8846050	6445179	107.514	99.630	
29)		2,4'-DDT	7.966	8.723	8925510	6066108	118.565	113.090	
30)		cis-Nonac...	8.062	8.762	16355846	11413420	104.859	101.948	
31)		Mirex	8.735	9.688	9548393	6558431	97.420	99.172	
32)		Chlordane...	7.693f	8.361f	31836	18131	1.804	1.253	
33)		Chlordane...	7.830	0.000	352984	0	17.034	N.D.	#
34)		Chlordane...	8.388f	9.107	47968	6604	9.015	BelowCal	#
35)		Chlordane...	3.985	0.000	24318	0	NoCal	N.D.	
36)		Toxaphene...	7.781f	8.723f	8846050	6066108	10626.967	5416.259	#
37)		Toxaphene...	8.062f	0.000	16355846	0	10854.435	N.D.	#
38)		Toxaphene...	8.388f	9.081	47968	9493	15.422	4.374	#
39)		Toxaphene...	8.621f	9.107f	6129	6604	BelowCal	BelowCal	
40)		Toxaphene...	8.915f	9.296f	10230	5266	4.344	BelowCal	#
41)		Toxaphene...	8.952	9.688	1002868	6558431	330.604	3240.342	#
42)		Toxaphene...	3.985	0.000	24318	0	NoCal	N.D.	

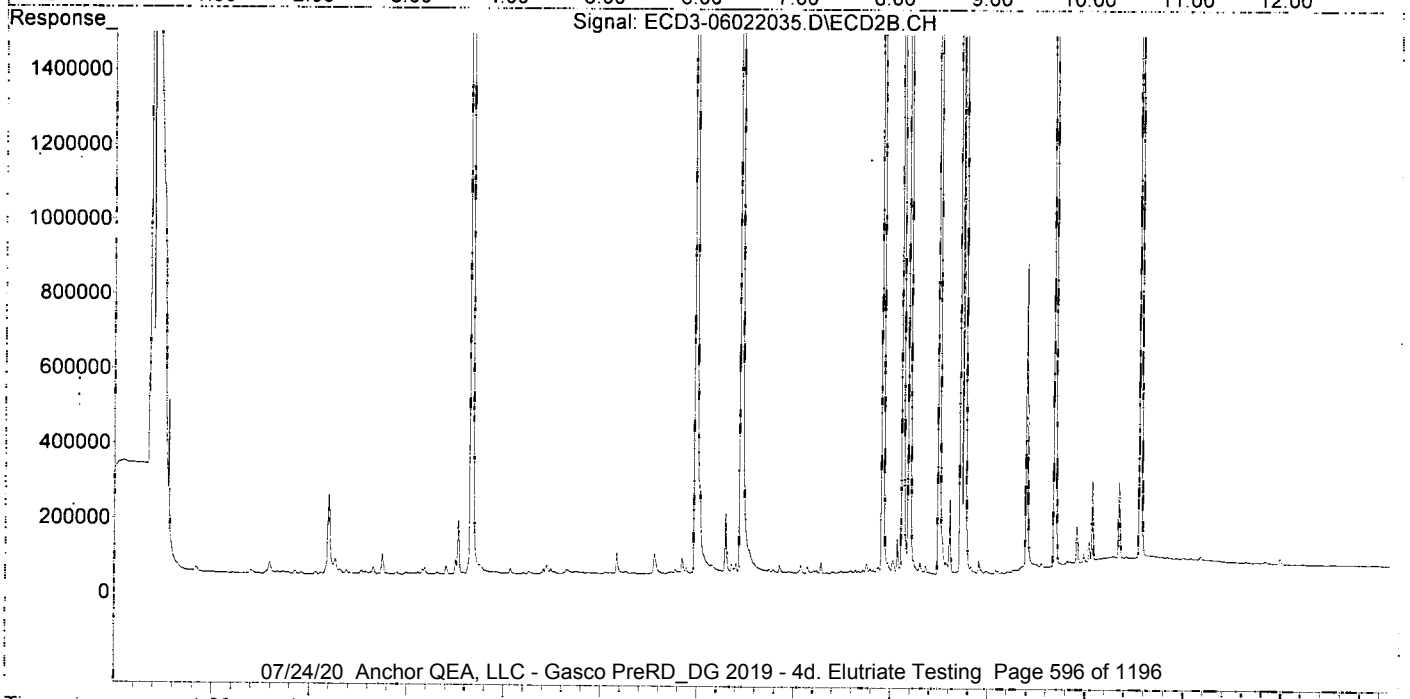
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:01
Operator : MJB
Sample : 0050955-BS2
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:18
Operator : MJB
Sample : 0050955-BSD2
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:43 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

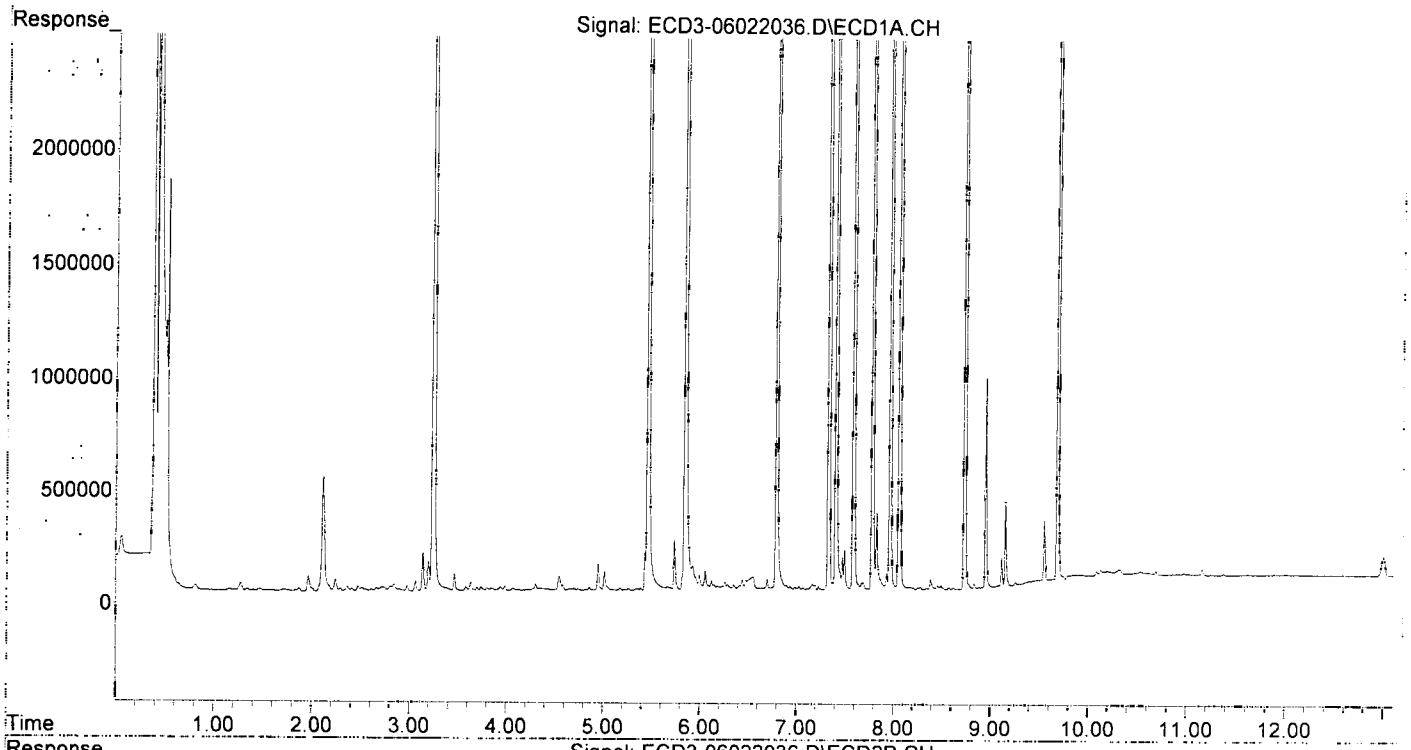
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.461	5.979	11477063	7844320	77.492	71.497	
22)	S DCBP (S)	9.687	10.563	7836484	4587387	71.212	69.879	
	Target Compounds							
2)	a-BHC	5.995	0.000	66531	0	0.329	N.D.	#
3)	g-BHC	6.286	0.000	23818	0	0.138	N.D.	#
4)	b-BHC	6.348	0.000	22496	0	0.330	N.D.	#
5)	Heptachlor	6.697	7.281	48221	31598	0.294	0.279	
6)	d-BHC	6.551f	7.231	57210	7157	0.408	0.059	#
7)	Aldrin	6.934	7.587f	14369	5077	0.086	0.038	#
8)	Heptachlo...	7.406	7.968f	9351465	30019	59.798	0.255	#
9)	trans-Chl...	7.499	8.123	176867	6982132	1.124	57.894	#
10)	cis-Chlor...	7.588	0.000	14309710	0	91.162	N.D.	#
11)	Endosulfa...	7.693	8.302	31444	24521	0.219	0.228	
12)	4,4'-DDE	7.677	8.360	32082	16271	0.222	0.141	
13)	Dieldrin	7.854	8.498	74780	6335093	0.465	52.906	#
14)	Endrin	8.062f	8.723	16653501	5980942	134.996	69.184	#
15)	4,4'-DDD	8.062f	8.762	16653501	11762261	137.173	124.645	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	8.281	8.991	11055	7679	0.221	0.211	
18)	Endrin Al...	8.495	9.107	16358	5317	BelowCal	3407.142	
19)	Endosulfa...	0.000	9.294	0	4820	N.D.	0.057	#
20)	Methoxychlor	8.622	0.000	4839	0	0.156	N.D.	#
21)	Endrin Ke...	8.953f	9.688	934378	6454682	6.487	67.464	#
23)	Hexachlor...	3.244	3.660	12813769	10843391	76.536	71.826	
24)	Hexachlor...	5.845	6.449	12299396	8488912	90.119	80.581	
25)	Oxychlordane	7.330	7.917	12218536	9155690	93.435	95.338	
26)	2,4'-DDE	7.406	8.123	9351465	6982132	100.376	94.145	
27)	trans-Non...	7.588	8.193	14309710	10344599	98.792	98.466	
28)	2,4'-DDD	7.782	8.498	8787397	6335093	106.806	97.867	
29)	2,4'-DDT	7.966	8.723	8844142	5980942	117.484	111.502	
30)	cis-Nonac...	8.062	8.762	16653501	11762261	106.738	105.212	
31)	Mirex	8.734	9.688	9213374	6454682	93.943	97.551	
32)	Chlordane...	7.693f	8.360f	31444	16271	1.781	1.125	
33)	Chlordane...	7.829	0.000	350075	0	16.894	N.D.	#
34)	Chlordane...	8.387f	9.107	44559	5317	8.375	BelowCal	#
35)	Chlordane...	3.985	0.000	18423	0	NoCal	N.D.	
36)	Toxaphene...	7.782f	8.723f	8787397	5980942	10556.505	5340.217	#
37)	Toxaphene...	8.062f	0.000	16653501	0	11051.971	N.D.	#
38)	Toxaphene...	8.387f	9.081	44559	7835	14.326	3.610	#
39)	Toxaphene...	8.622f	9.107f	4839	5317	BelowCal	BelowCal	
40)	Toxaphene...	8.884	9.294f	1208	4820	0.513	BelowCal	#
41)	Toxaphene...	8.953	9.688	934378	6454682	308.026	3189.083	#
42)	Toxaphene...	3.985	0.000	18423	0	NoCal	N.D.	

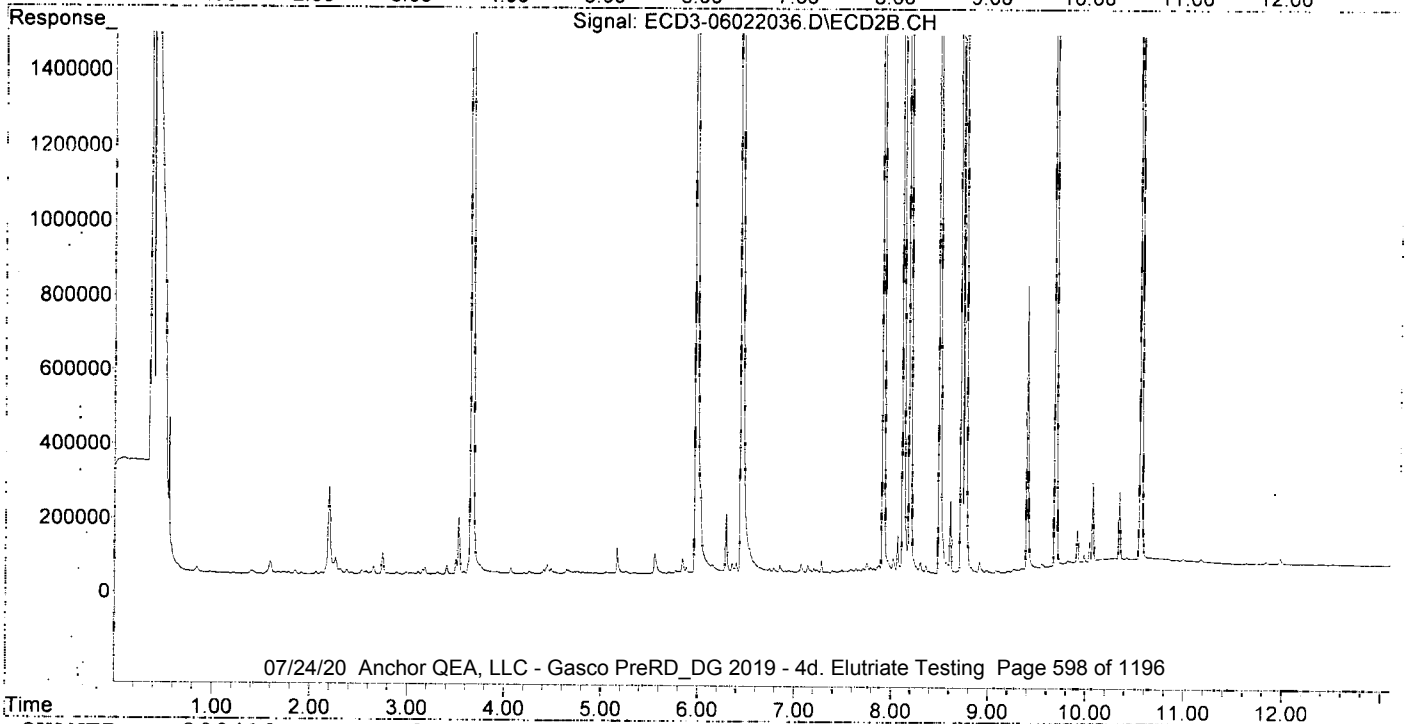
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:18
Operator : MJB
Sample : 0050955-BSD2
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:43 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 17:53:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/3/20

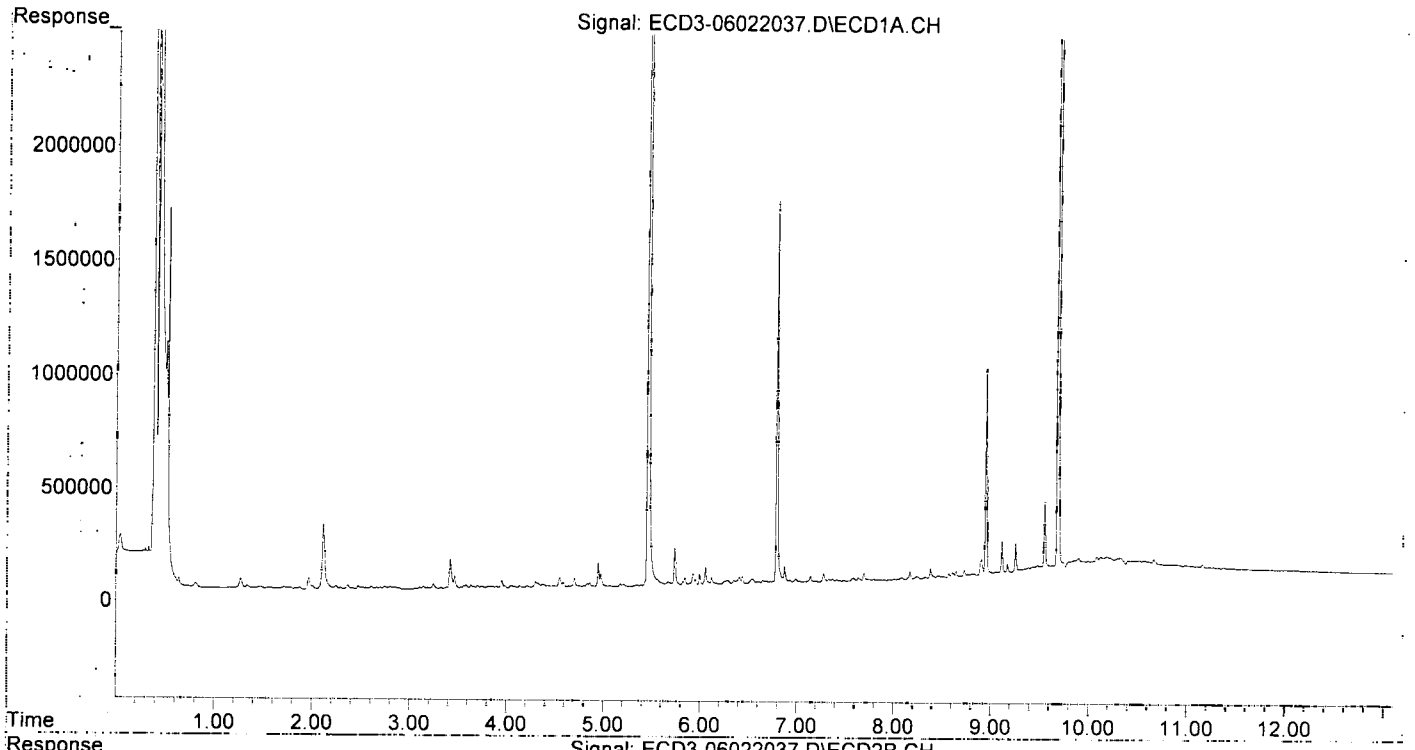
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.460	5.980	8959867	6057923	60.496	54.675
22)	S DCBP (S)	9.687	10.563	8967755	5286673	81.497	80.976
	Target Compounds						
2)	a-BHC	5.995	0.000	48591	0	0.240	N.D. #
3)	g-BHC	6.282	6.922	17963	49178	0.104	0.365 #
4)	b-BHC	6.349	0.000	17592	0	0.258	N.D. #
5)	Heptachlor	6.693	7.282	8797	5257	0.054	0.046
6)	d-BHC	6.543f	7.219	19934	4936	0.142	0.040 #
7)	Aldrin	6.930	7.568	13249	5667	0.079	0.043 #
8)	Heptachlo...	7.416	7.986	11219	3605	0.072	0.031 #
9)	trans-Chl...	7.496	8.147	6402	6430	0.041	0.053m
10)	cis-Chlor...	7.587	8.221	14254	3889	0.091	0.034 #
11)	Endosulfa...	7.696	8.300	35615	6975	0.248	0.065 #
12)	4,4'-DDE	7.636f	8.358	17218	19162	0.119	0.166
13)	Dieldrin	0.000	8.471	0	12055	N.D.	0.101 #
14)	Endrin	8.044	8.735	4723	6830	0.038	0.079 #
15)	4,4'-DDD	8.082	8.761	11132	6027	0.092	0.064
16)	Endosulfa...	8.210	8.876	4372	3703	0.036	0.040
17)	4,4'-DDT	0.000	9.005	0	5261	N.D.	0.167m#
18)	Endrin Al...	8.516f	9.110	5556	8317	BelowCal	3407.105
19)	Endosulfa...	8.767f	9.274f	10401	37474	0.086	0.445 #
20)	Methoxychlor	8.608	9.486	19164	22102	0.506	0.901 #
21)	Endrin Ke...	8.952f	9.685	913399	65238	6.341	0.682 #
23)	Hexachlor...	3.244	3.660	20309	17881	2108.585	837.969 #
24)	Hexachlor...	5.844	6.468	33591	50253	0.049	0.217 #
25)	Oxychlordane	7.332	0.000	12257	0	BelowCal	N.D. d
26)	2,4'-DDE	7.416	0.000	11219	0	BelowCal	N.D. d
27)	trans-Non...	7.587	0.000	14254	0	BelowCal	N.D. d
28)	2,4'-DDD	7.797	0.000	8481	0	BelowCal	N.D. d
29)	2,4'-DDT	7.966	8.735	3996	6830	0.053m	0.127 #
30)	cis-Nonac...	8.082	0.000	11132	0	BelowCal	N.D. d
31)	Mirex	8.730	9.685	25581	65238	7125.626	0.549 #
32)	Chlordane...	7.732	8.358f	7992	19162	0.453	1.324 #
33)	Chlordane...	7.797	8.471f	8481	12055	0.409	0.975 #
34)	Chlordane...	8.384	9.110	43419	8317	8.160	BelowCal #
35)	Chlordane...	3.981	0.000	8889	0	NoCal	N.D.
36)	Toxaphene...	7.797	8.699	8481	3936	10.188	3.514 #
37)	Toxaphene...	8.082	9.009f	11132	5248	7.387	3.847 #
38)	Toxaphene...	8.384f	9.087	43419	19250	13.960	8.870
39)	Toxaphene...	8.647	9.143	24343	15755	2.657	BelowCal #
40)	Toxaphene...	8.908	0.000	71102	0	30.190	N.D. #
41)	Toxaphene...	8.952	9.685	913399	65238	301.110	32.232 #
42)	Toxaphene...	3.981	0.000	8889	0	NoCal	N.D.

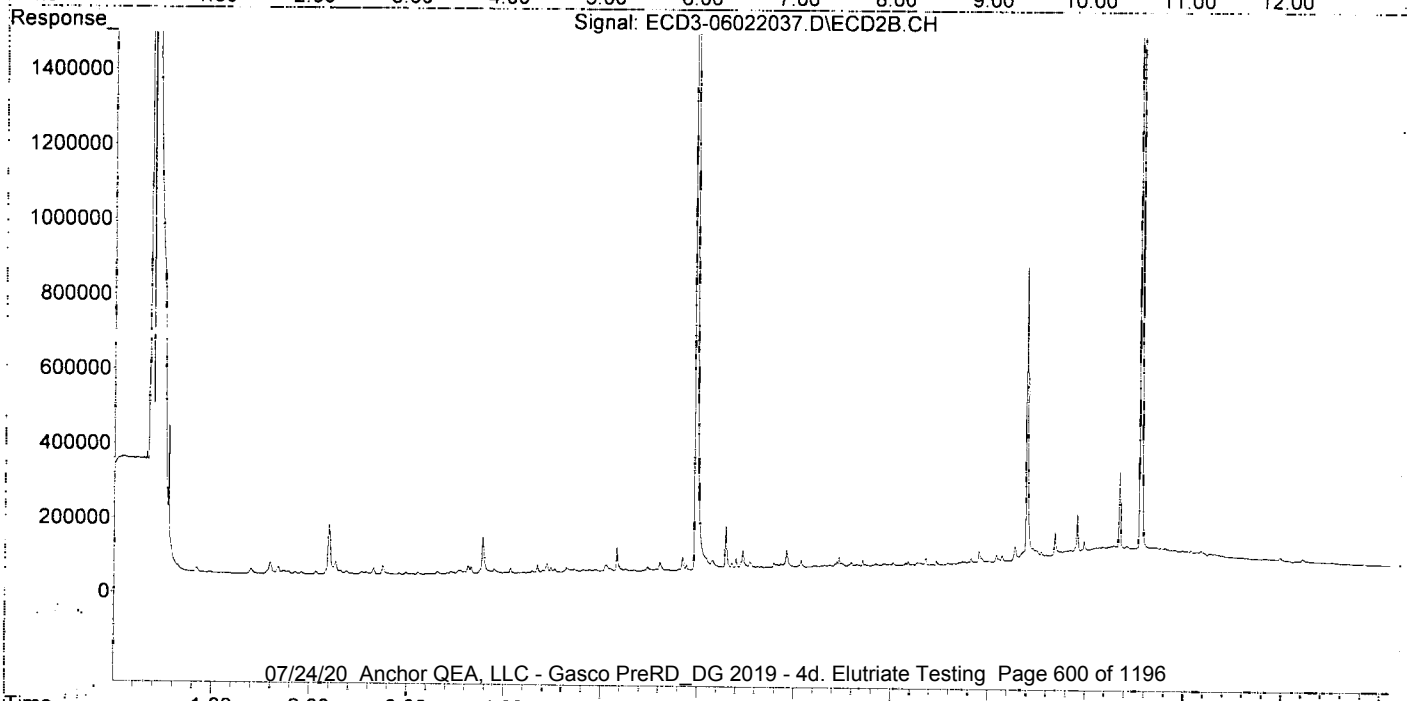
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 17:53:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

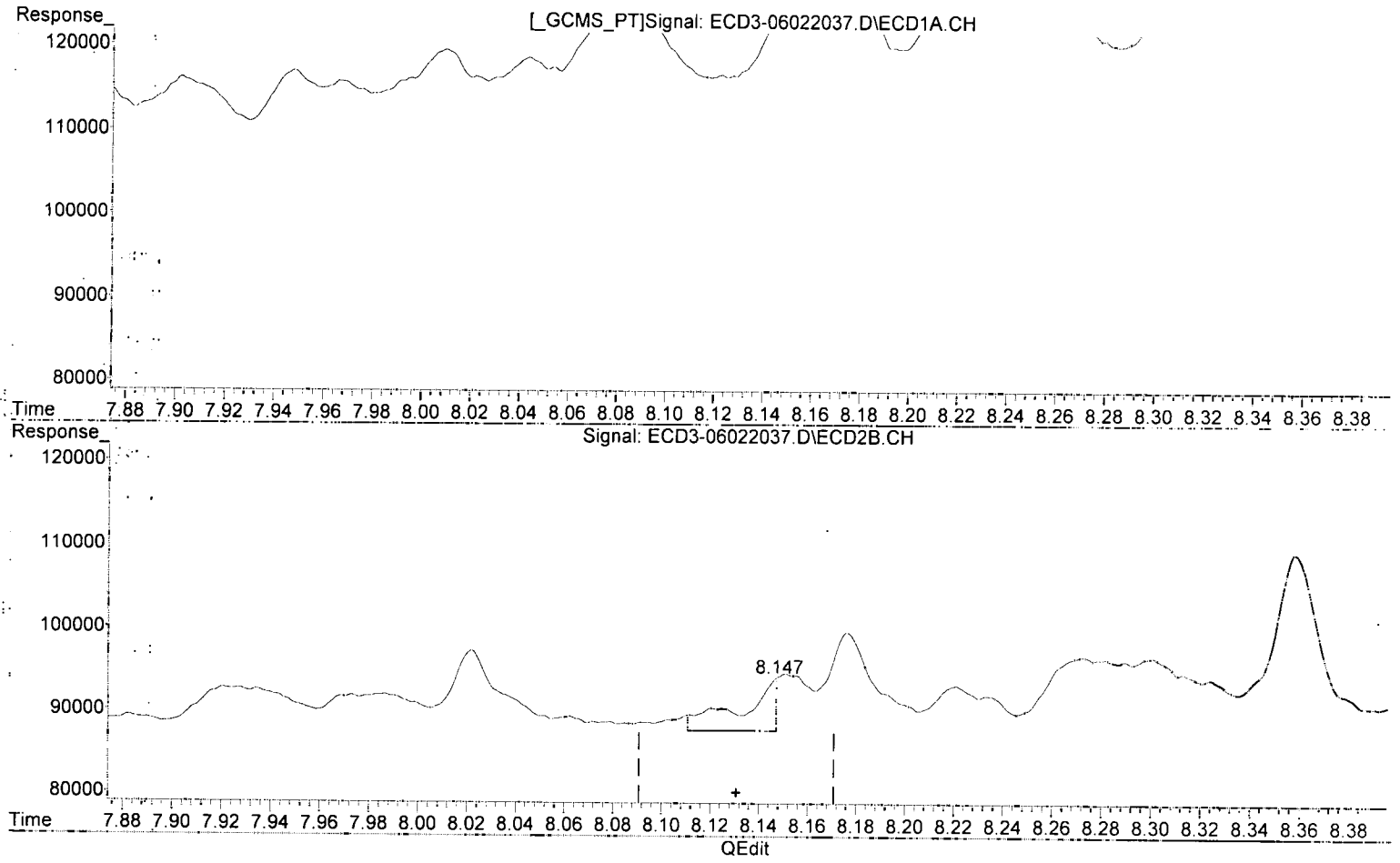




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(9) trans-Chlordane

7.496min 0.041 ng/mL

response 6402

MJB 6/3/20

(9) trans-Chlordane #2

8.147min 0.053 ng/mL m

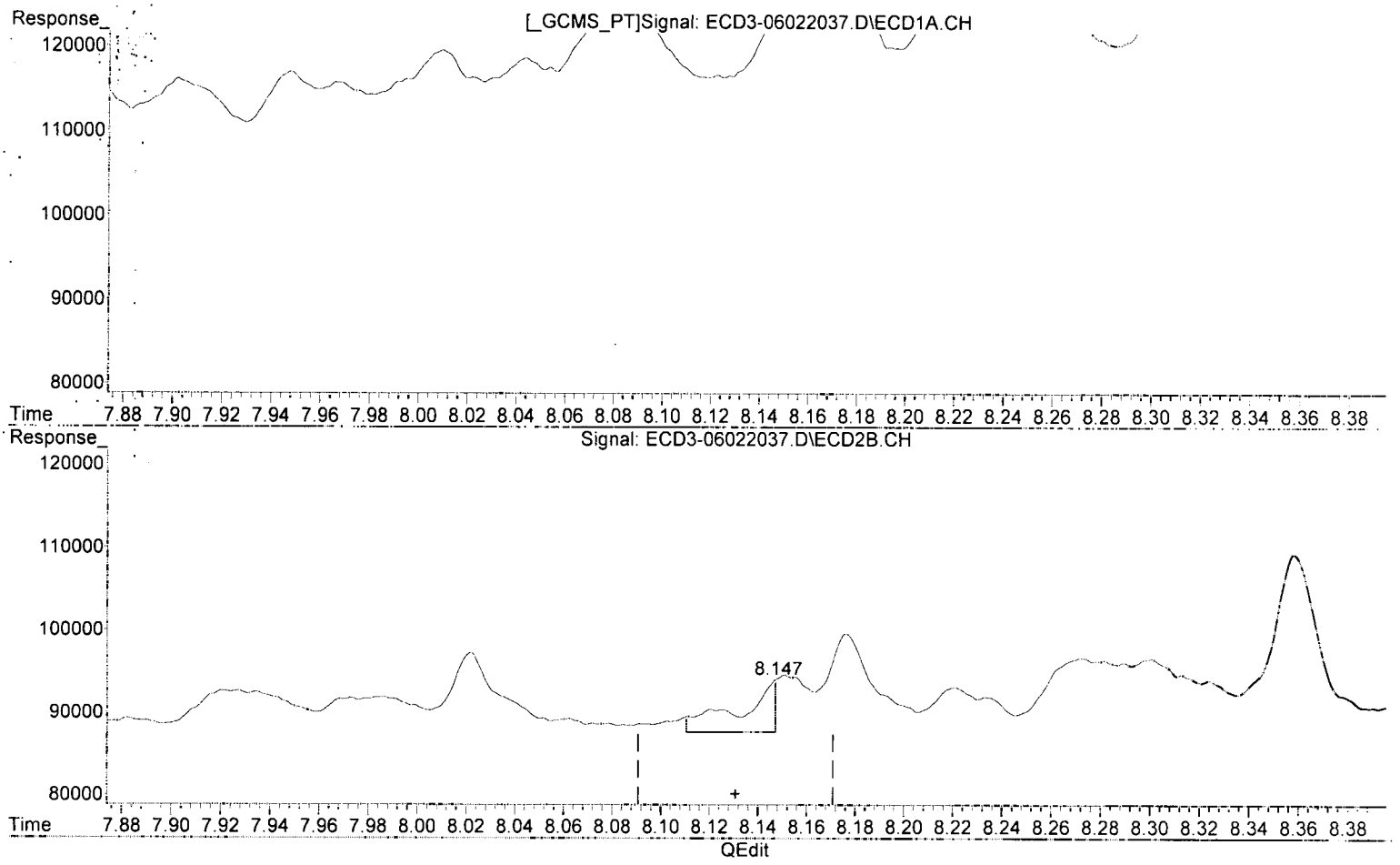
response 6430

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:51:42 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(9) trans-Chlordane

7.496min 0.041 ng/mL

response 6402

MD 6/3/20

(9) trans-Chlordane #2

8.147min 0.053 ng/mL (m)

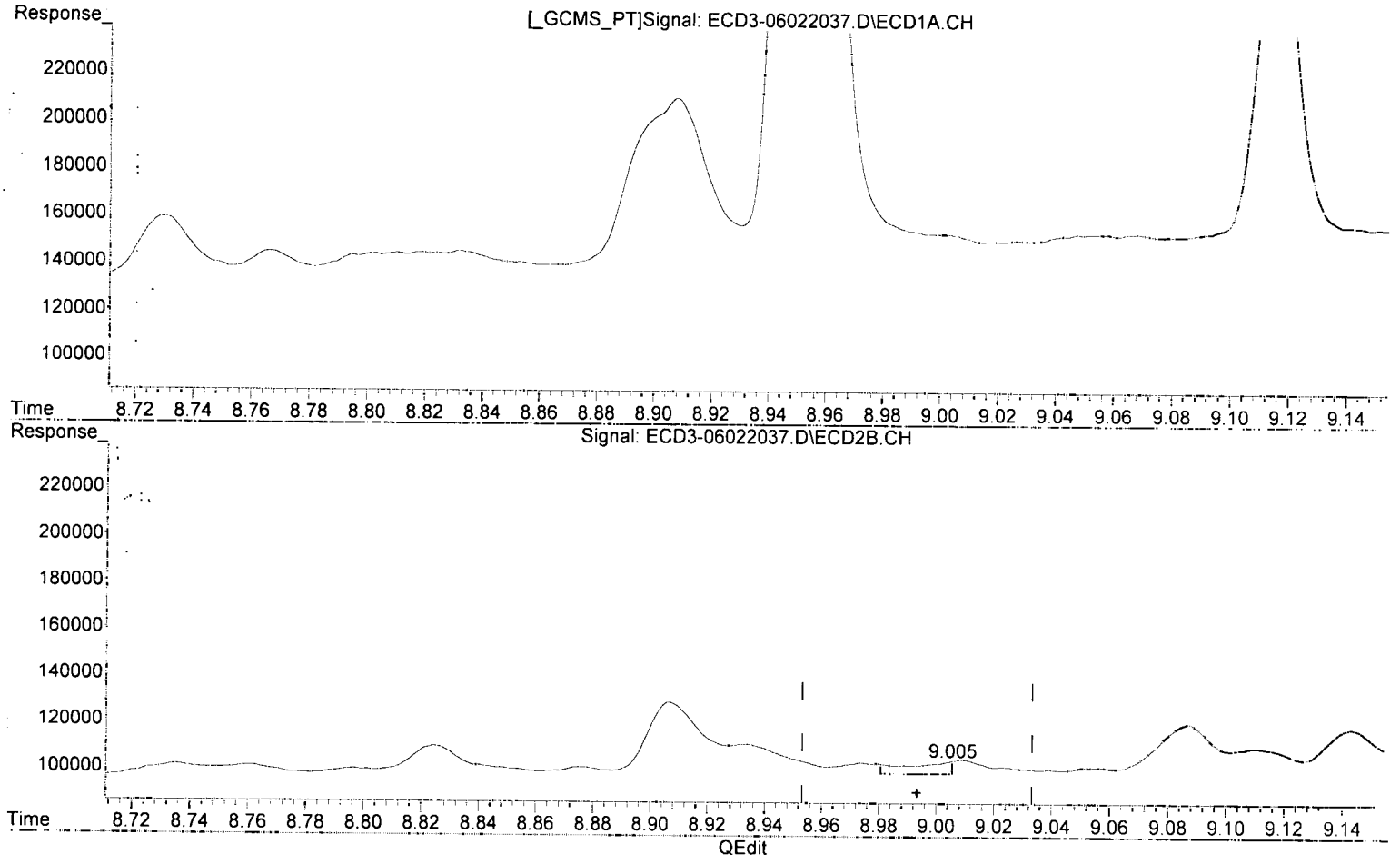
response 6430

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:52:36 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq.On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

0.000min 0.000 ng/mL

response 0

MJB 6/2/20

(17) 4,4'-DDT #2

9.005min 0.167 ng/mL (m)

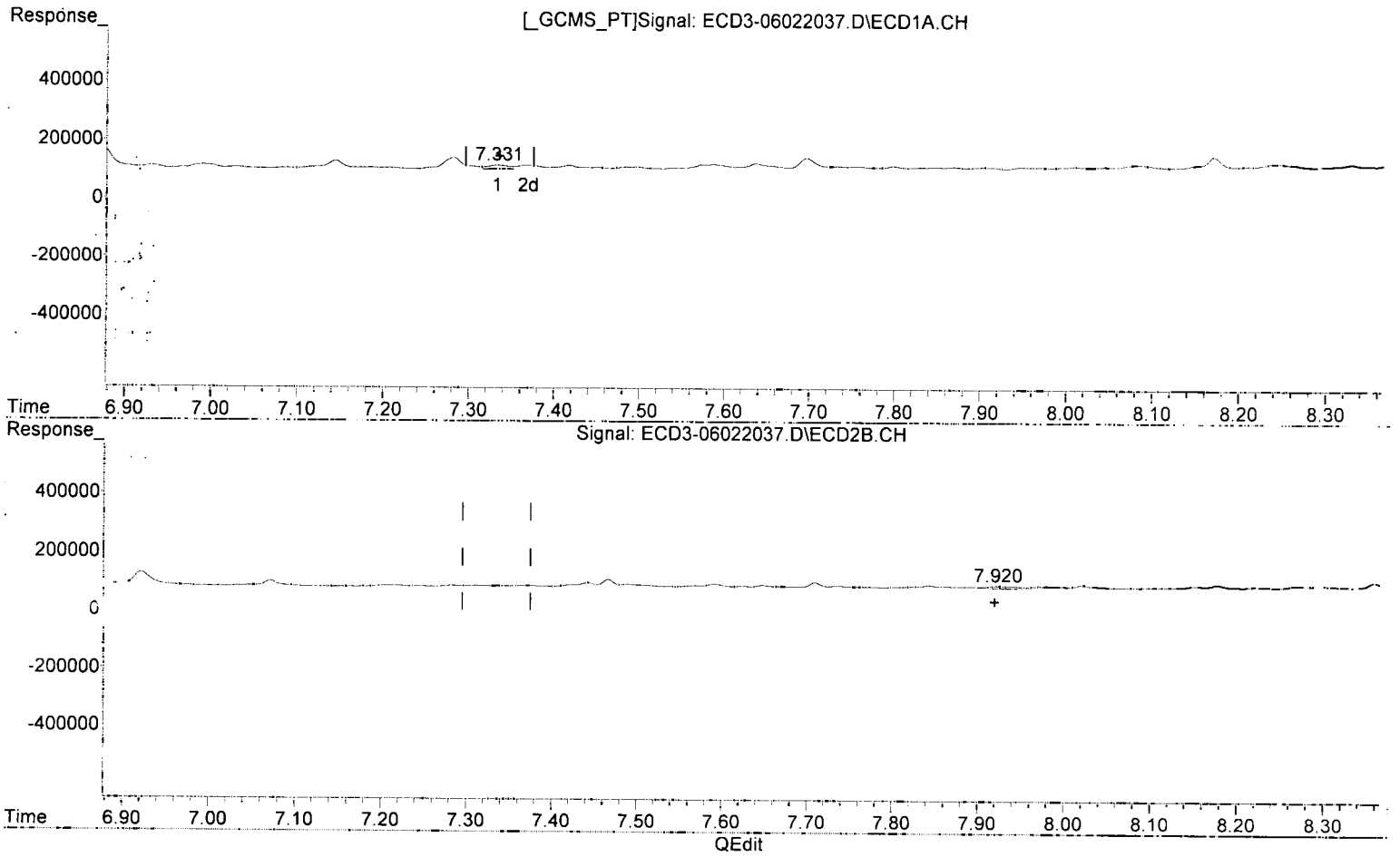
response 5261

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.332min -0.105 ng/mL

response 12257

MB 6/3/20

(25) Oxychlordane #2

7.927min 3277.687 ng/mL Q-DC1

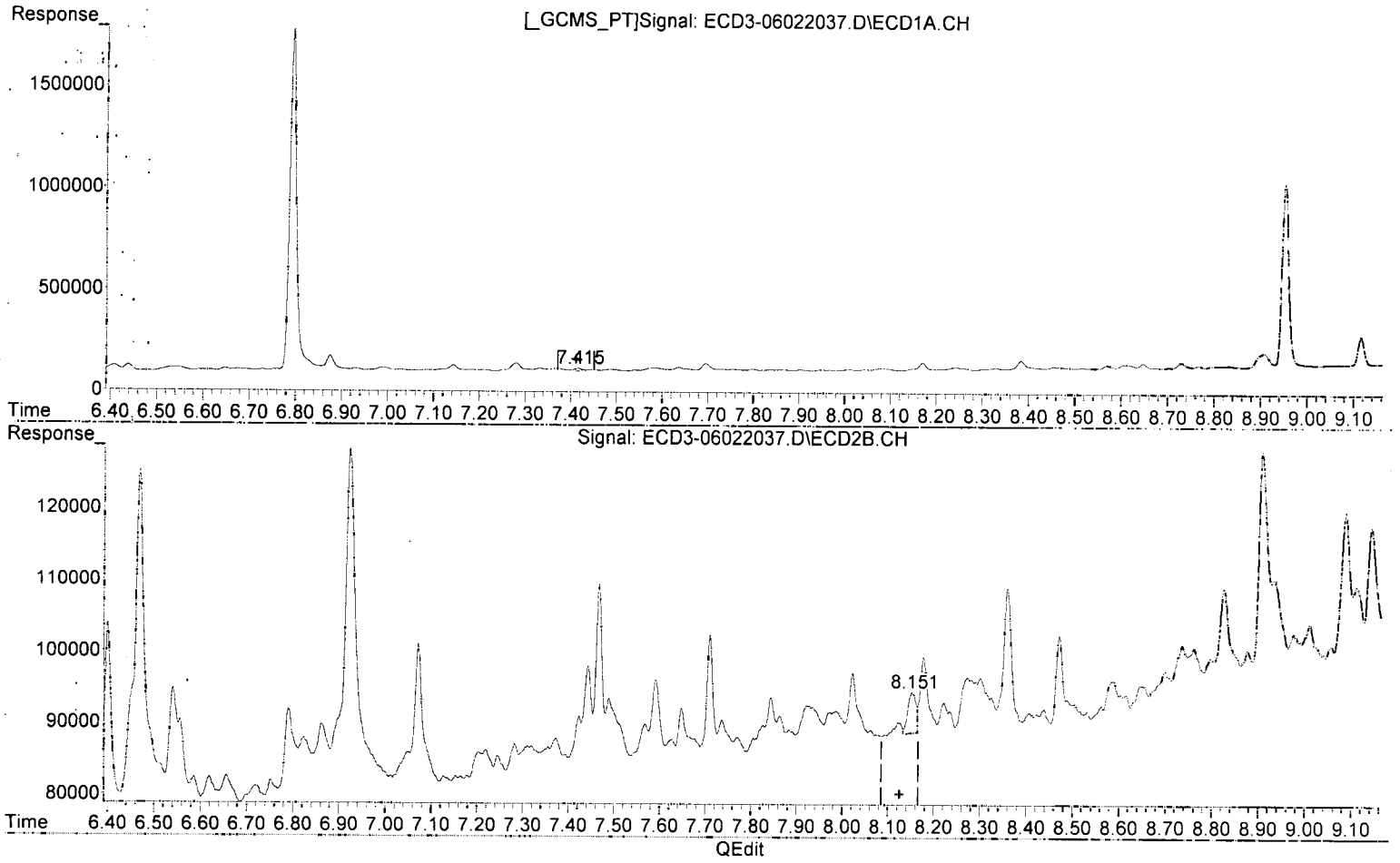
response 4998

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.416min -0.059 ng/mL

response 11219

MJB 6/3/20

(26) 2,4'-DDE #2

8.151min 2144.909 ng/mL Q-DC1

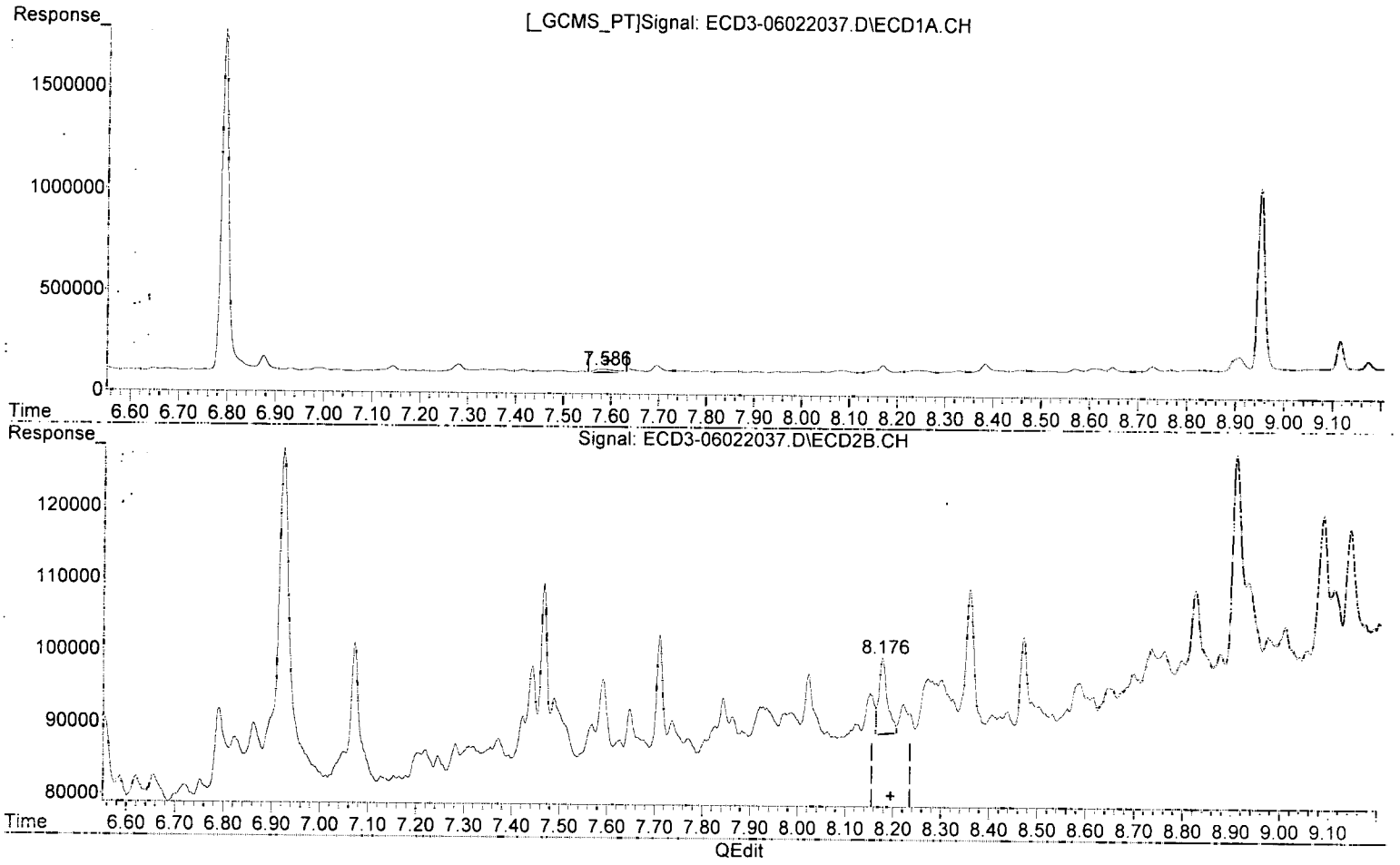
response 5677

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:53:18 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.587min -0.109 ng/mL

response 14254

MJB 6/3/20

(27) trans-Nonachlor #2

8.177min 1953.468 ng/mL Q-QA1

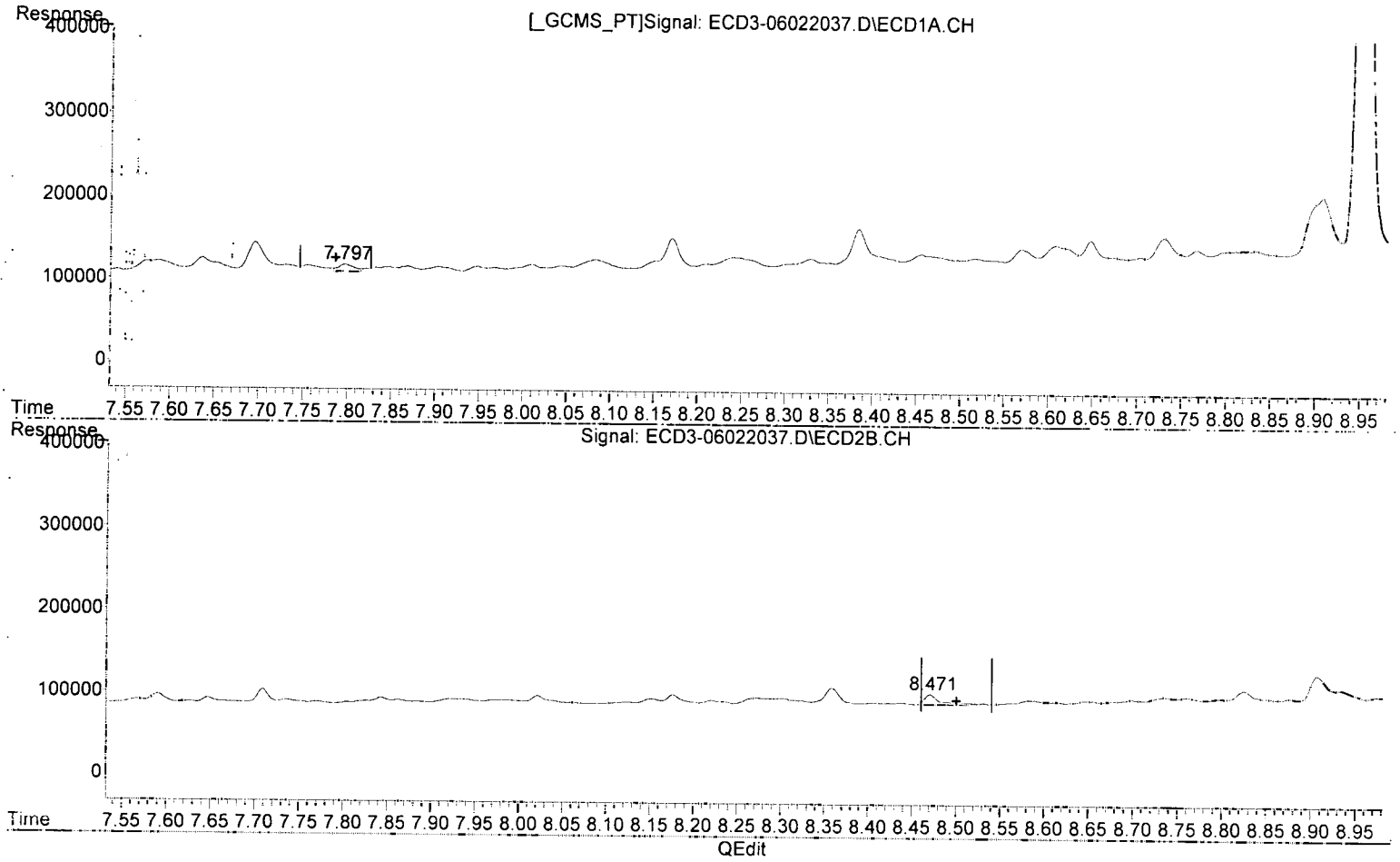
response 10546

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:53:25 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.797min -0.114 ng/mL

response 8481

MJB 6/3/20

(28) 2,4'-DDD #2

8.471min 3167.706 ng/mL Q-DA

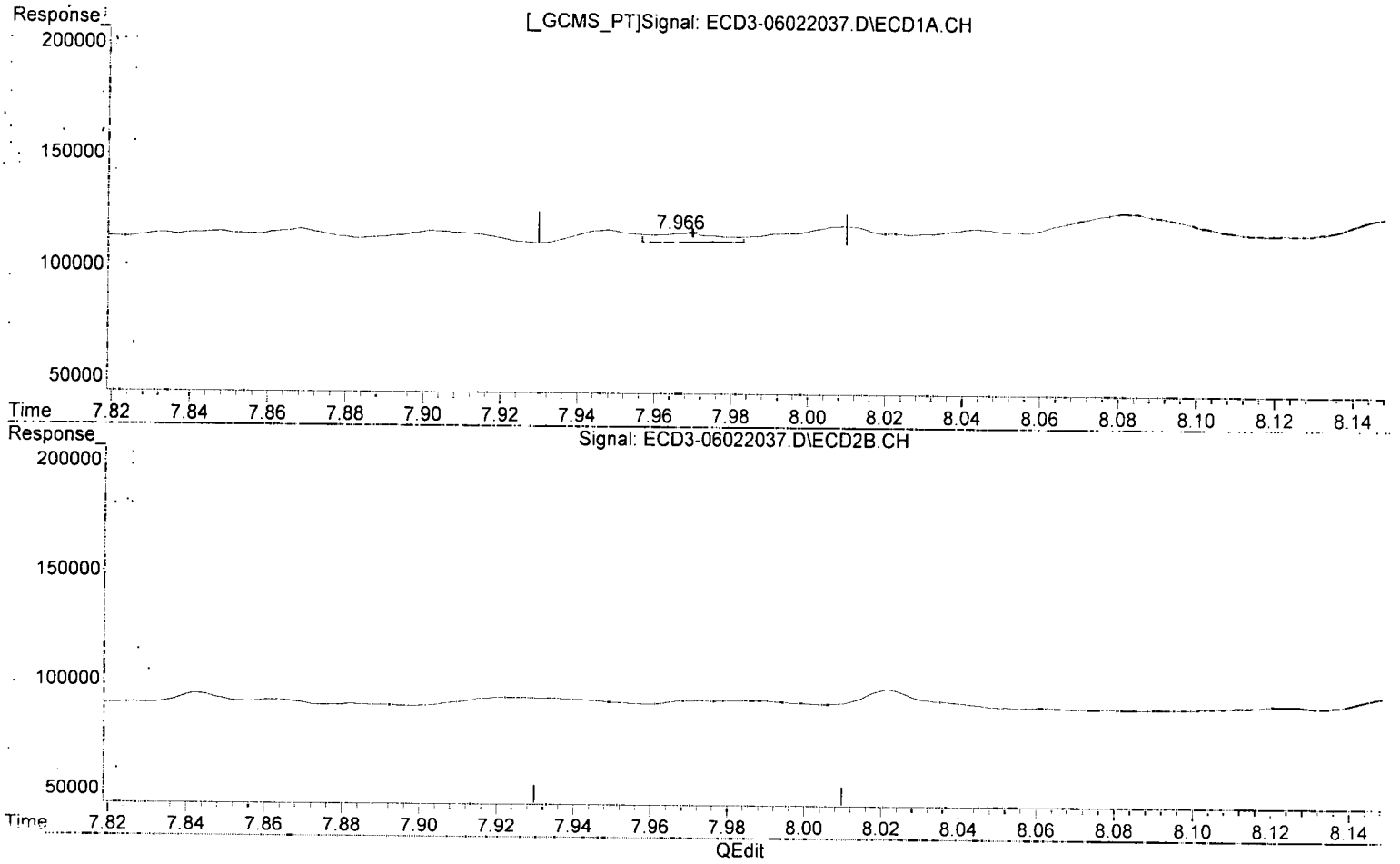
response 12055

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.966min 0.053 ng/mL

response 3996

MJB 6/7/20

(29) 2,4'-DDT #2

8.735min 0.127 ng/mL

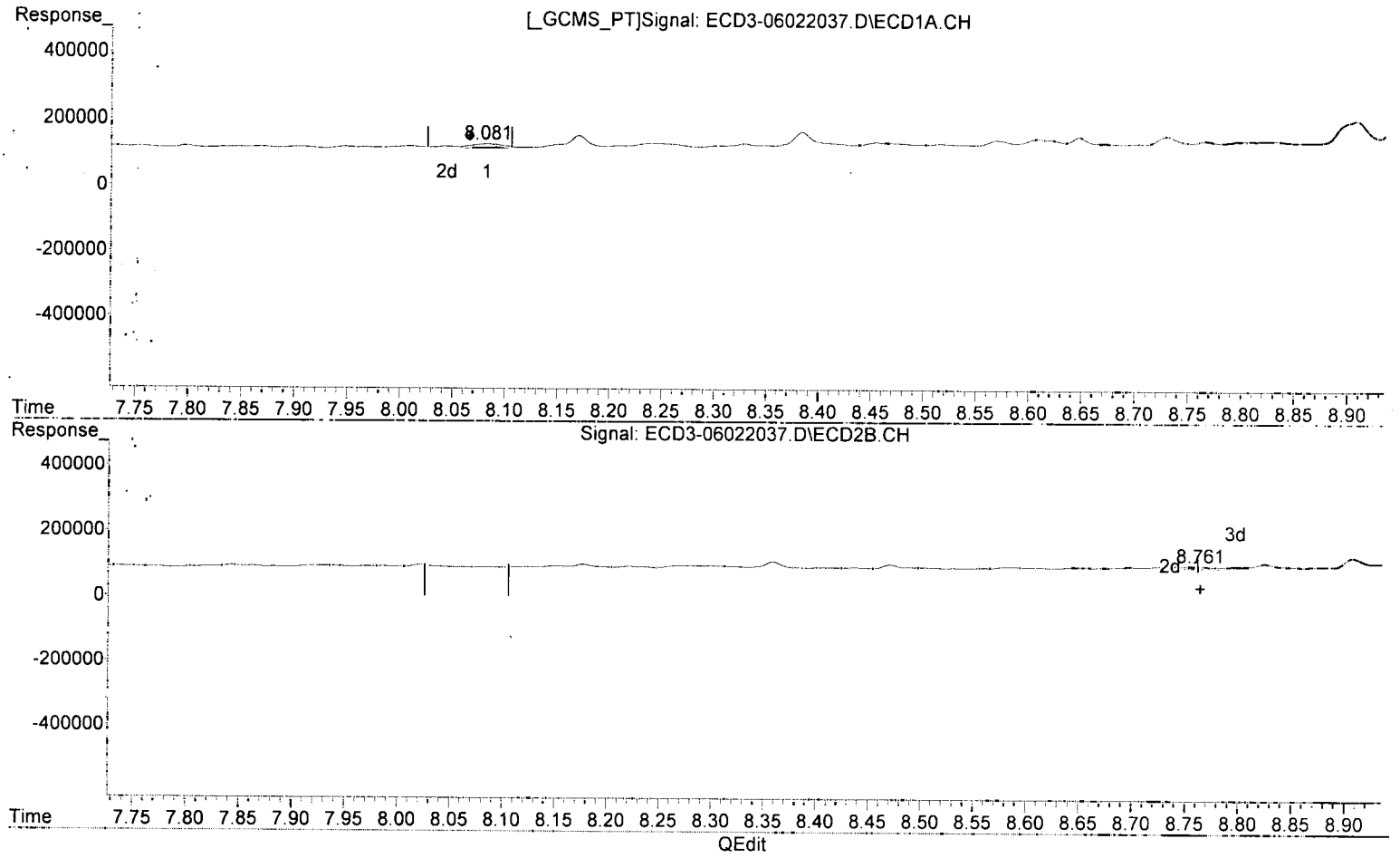
response 6830

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 17:53:51 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.082min -0.139 ng/mL

response 11132

MJB 6/3/20

(30) cis-Nonachlor #2

8.761min 2549.508 ng/mL Q-DL

response 6827

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

ML MJB 6/3/20

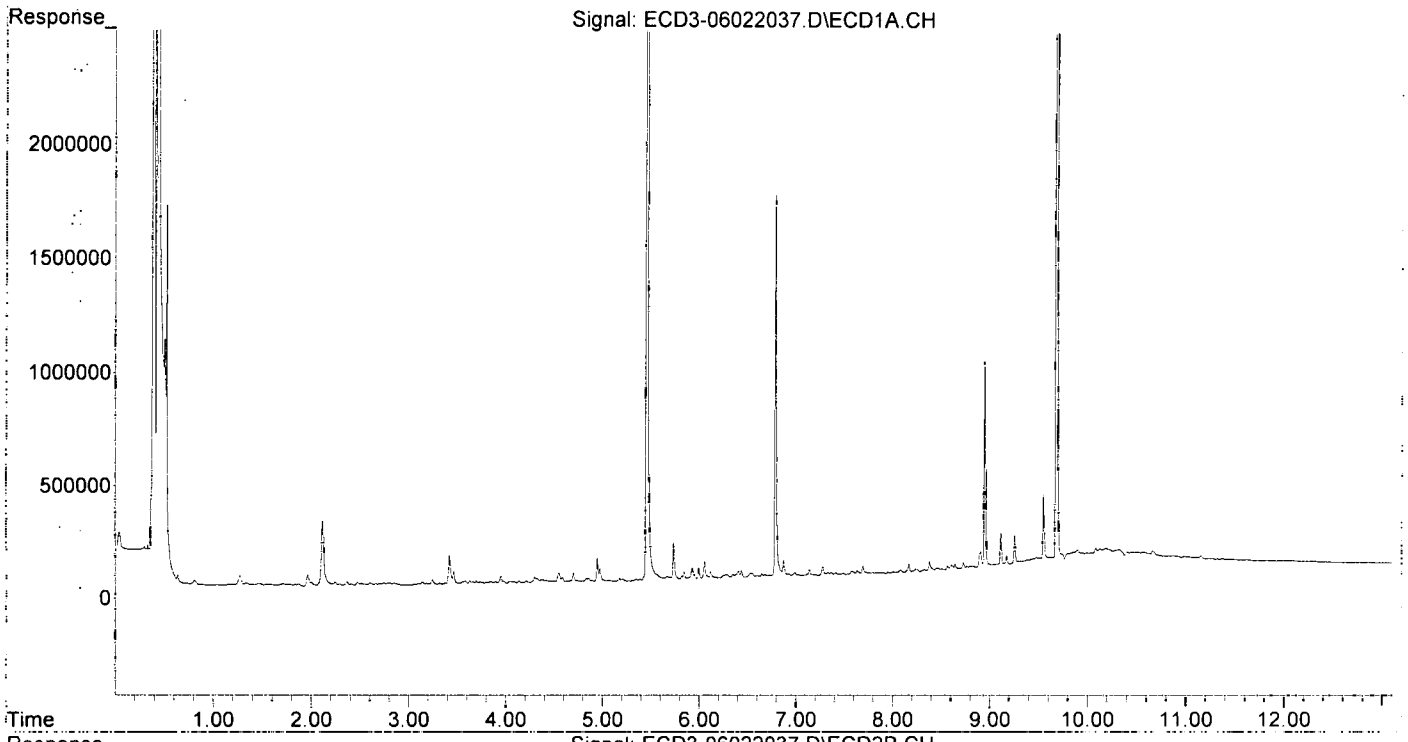
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.460	5.980	8959867	6057923	60.496	54.675	
22)	S DCBP (S)	9.687	10.563	8967755	5286673	81.497	80.976	
	Target Compounds							
2)	a-BHC	5.995	0.000	48591	0	0.240	N.D.	#
3)	g-BHC	6.282	6.922	17963	49178	0.104	0.365	#
4)	b-BHC	6.349	0.000	17592	0	0.258	N.D.	#
5)	Heptachlor	6.693	7.282	8797	5257	0.054	0.046	
6)	d-BHC	6.543f	7.219	19934	4936	0.142	0.040	#
7)	Aldrin	6.930	7.568	13249	5667	0.079	0.043	#
8)	Heptachlo...	7.416	7.986	11219	3605	0.072	0.031	#
9)	trans-Chl...	7.496	8.151f	6402	5677	0.041	0.047	
10)	cis-Chlor...	7.587	8.221	14254	3889	0.091	0.034	#
11)	Endosulfa...	7.696	8.300	35615	6975	0.248	0.065	#
12)	4,4'-DDE	7.636f	8.358	17218	19162	0.119	0.166	
13)	Dieldrin	0.000	8.471	0	12055	N.D.	0.101	#
14)	Endrin	8.044	8.735	4723	6830	0.038	0.079	#
15)	4,4'-DDD	8.082	8.761	11132	6027	0.092	0.064	
16)	Endosulfa...	8.210	8.876	4372	3703	0.036	0.040	
17)	4,4'-DDT	0.000	9.009	0	5248	N.D.	0.167	#
18)	Endrin Al...	8.516f	9.110	5556	8317	BelowCal	3407.105	
19)	Endosulfa...	8.767f	9.274f	10401	37474	0.086	0.445	#
20)	Methoxychlor	8.608	9.486	19164	22102	0.506	0.901	#
21)	Endrin Ke...	8.952f	9.685	913399	65238	6.341	0.682	#
23)	Hexachlor...	3.244	3.660	20309	17881	2108.585	837.969	#
24)	Hexachlor...	5.844	6.468	33591	50253	0.049	0.217	#
25)	Oxychlordane	7.332	7.927	12257	4998	BelowCal	3277.687	
26)	2,4'-DDE	7.416	8.151f	11219	5677	BelowCal	2144.909	
27)	trans-Non...	7.587	8.177	14254	10546	BelowCal	1953.468	
28)	2,4'-DDD	7.797	8.471f	8481	12055	BelowCal	3167.706	
29)	2,4'-DDT	7.948f	8.735	5541	6830	0.074	0.127	#
30)	cis-Nonac...	8.082	8.761	11132	6027	BelowCal	2549.508	
31)	Mirex	8.730	9.685	25581	65238	7125.626	0.549	#
32)	Chlordane...	7.732	8.358f	7992	19162	0.453	1.324	#
33)	Chlordane...	7.797	8.471f	8481	12055	0.409	0.975	#
34)	Chlordane...	8.384	9.110	43419	8317	8.160	BelowCal	#
35)	Chlordane...	3.981	0.000	8889	0	NoCal	N.D.	
36)	Toxaphene...	7.797	8.699	8481	3936	10.188	3.514	#
37)	Toxaphene...	8.082	9.009f	11132	5248	7.387	3.847	#
38)	Toxaphene...	8.384f	9.087	43419	19250	13.960	8.870	
39)	Toxaphene...	8.647	9.143	24343	15755	2.657	BelowCal	#
40)	Toxaphene...	8.908	0.000	71102	0	30.190	N.D.	#
41)	Toxaphene...	8.952	9.685	913399	65238	301.110	32.232	#
42)	Toxaphene...	3.981	0.000	8889	0	NoCal	N.D.	

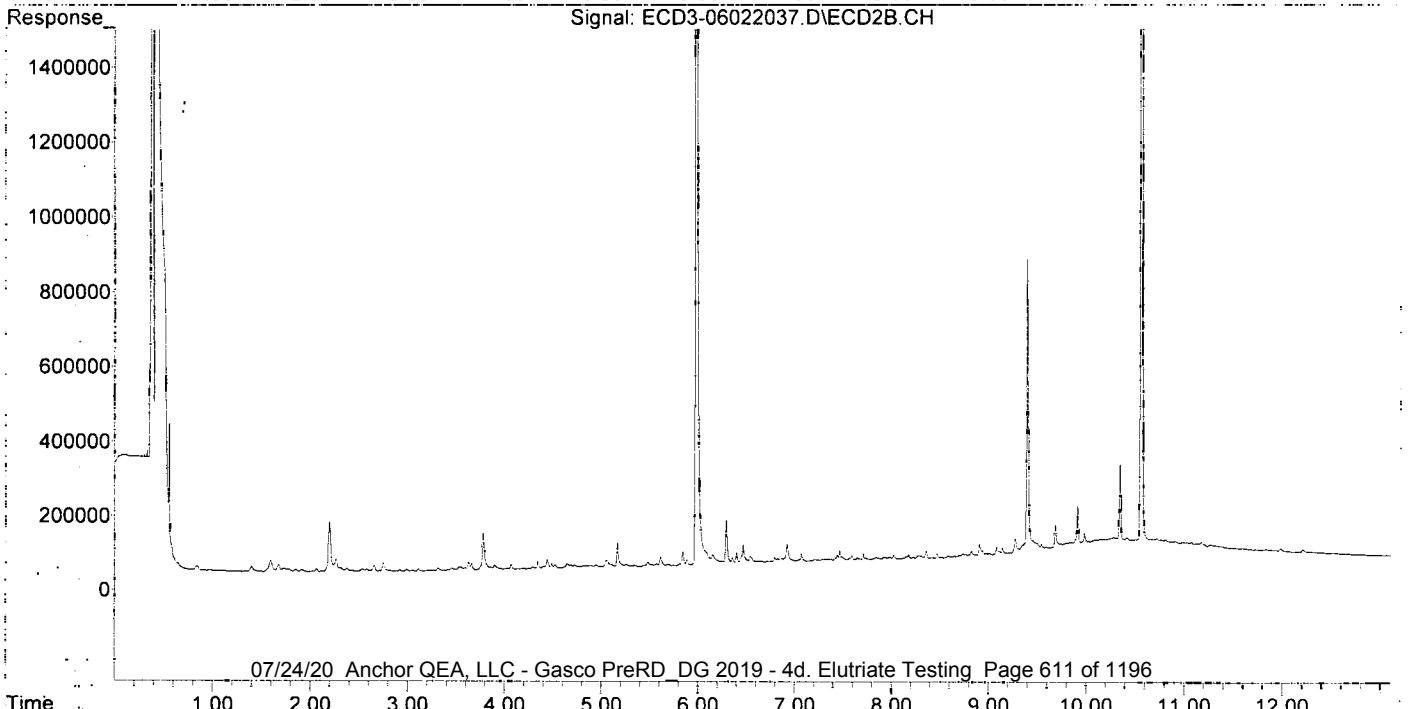
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:35
Operator : MJB
Sample : A0E0669-01
Misc : 1x, 8081B +Add, Custom List
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:52
Operator : MJB
Sample : 0F02064-CCV7
Misc : A20E233, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:53 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

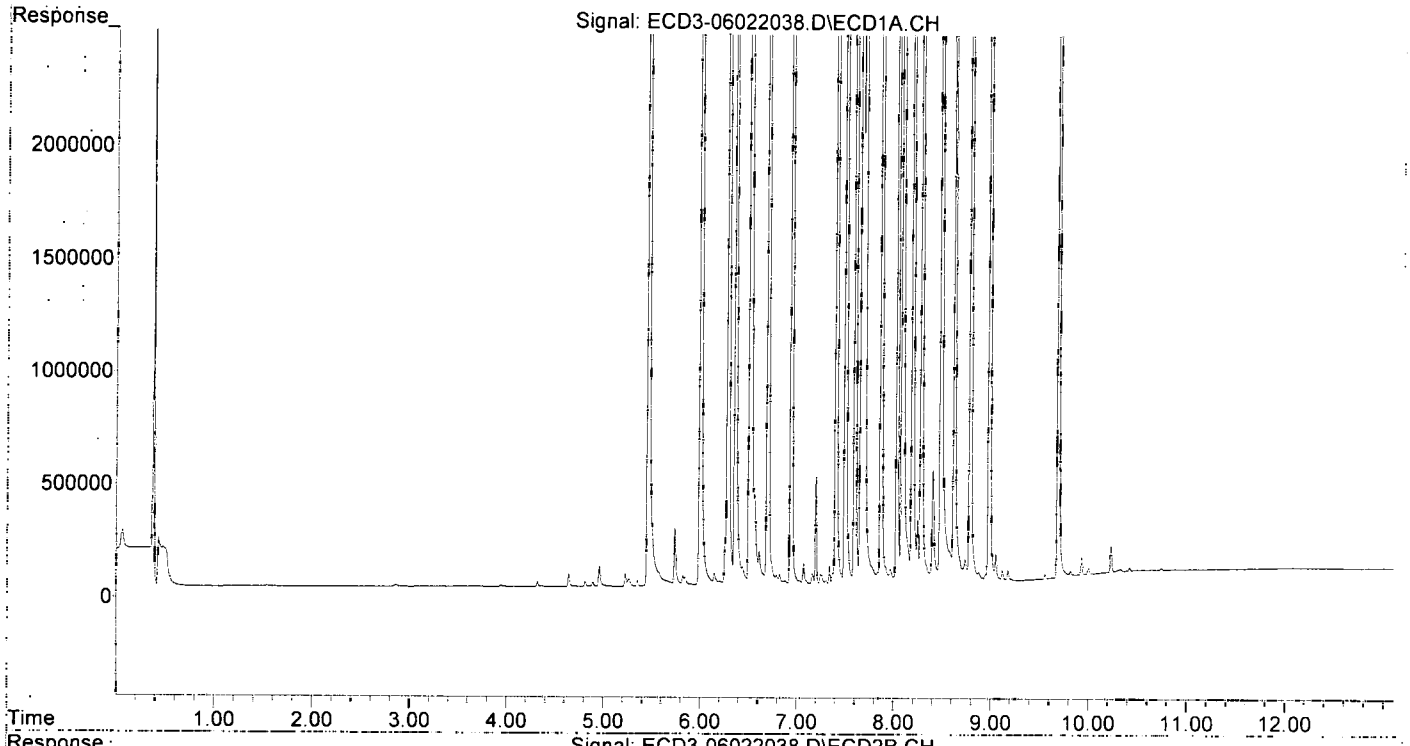
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.461	5.980	15611700	9761077	105.408	89.916	
22)	S	DCBP (S)	9.690	10.564	11843431	7292976	107.612	113.479	
		Target Compounds							
2)		a-BHC	6.001	6.588	22907698	15728218	113.239	100.197	
3)		g-BHC	6.286	6.907	20506018	13591538	118.750	100.883	
4)		b-BHC	6.361	6.973	7547038	5578403	110.625	90.829	
5)		Heptachlor	6.698	7.282	18766894	12434376	114.608	109.842	
6)		d-BHC	6.512	7.229	16378777	11783353	116.685	96.398	
7)		Aldrin	6.941	7.549	18992588	13719514	113.293	103.234	
8)		Heptachlo...	7.404	7.989	17035454	12358903	108.934	105.010	
9)		trans-Chl...	7.501	8.130	17280685	12590347	109.817	104.395	
10)		cis-Chlor...	7.599	8.238	17944192	12176326	114.316	105.125	
11)		Endosulfa...	7.696	8.288	16191824	11132422	112.818	103.521	
12)		4,4'-DDE	7.662	8.348	16242272	11581445	112.596	100.576	
13)		Dieldrin	7.870	8.490	18852727	12658670	117.307	105.715	
14)		Endrin	8.035	8.719	10677415	6963665	86.553	80.551	
15)		4,4'-DDD	8.086	8.766	13410516	9087718	110.461	96.303	
16)		Endosulfa...	8.193	8.867	13927188	9895650	115.053	107.893	
17)		4,4'-DDT	8.285	8.992	11280419	7109732	104.663	105.935	
18)		Endrin Al...	8.485	9.105	12286463	9612538	118.166	123.934	
19)		Endosulfa...	8.789	9.296	13376627	9260658	111.046	110.013	
20)		Methoxychlor	8.624	9.474	5108044	3241569	102.413	102.367	
21)		Endrin Ke...	8.985	9.698	16950004	10543197	117.670	110.197	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.845	0.000	33349	0	0.048	N.D.	#
25)		Oxychlordane	7.340	7.898f	78633	24053	0.408	0.024	#
26)		2,4'-DDE	7.404	8.130	17035454	12590347	178.774	177.127	
27)		trans-Non...	7.599	8.188	17944192	73190	123.615	0.443	#
28)		2,4'-DDD	0.000	8.490	0	12658670	N.D.	202.787	#
29)		2,4'-DDT	7.968	8.719	59551	6963665	0.791	129.823	#
30)		cis-Nonac...	8.086	8.766	13410516	9087718	86.206	80.417	
31)		Mirex	8.737	9.698	94969	10543197	0.589	162.664	#
32)		Chlordane...	7.696f	8.348	16191824	11581445	917.359	800.530	
33)		Chlordane...	7.837f	0.000	45410	0	2.191	N.D.	#
34)		Chlordane...	8.407f	9.105	490891	9612538	92.260	2656.545	#
35)		Chlordane...	3.941f	0.000	5683	0	NoCal	N.D.	
36)		Toxaphene...	7.837f	8.719f	45410	6963665	54.552	6217.663	#
37)		Toxaphene...	8.086	0.000	13410516	0	8899.789	N.D.	#
38)		Toxaphene...	8.407	9.105f	490891	9612538	157.824	4429.037	#
39)		Toxaphene...	8.624f	9.105f	5108044	9612538	1675.993	2786.445	#
40)		Toxaphene...	8.877	9.296f	36284	9260658	15.406	4570.426	#
41)		Toxaphene...	8.985f	9.698	16950004	10543197	5587.718	5209.107	
42)		Toxaphene...	3.941f	0.000	5683	0	NoCal	N.D.	

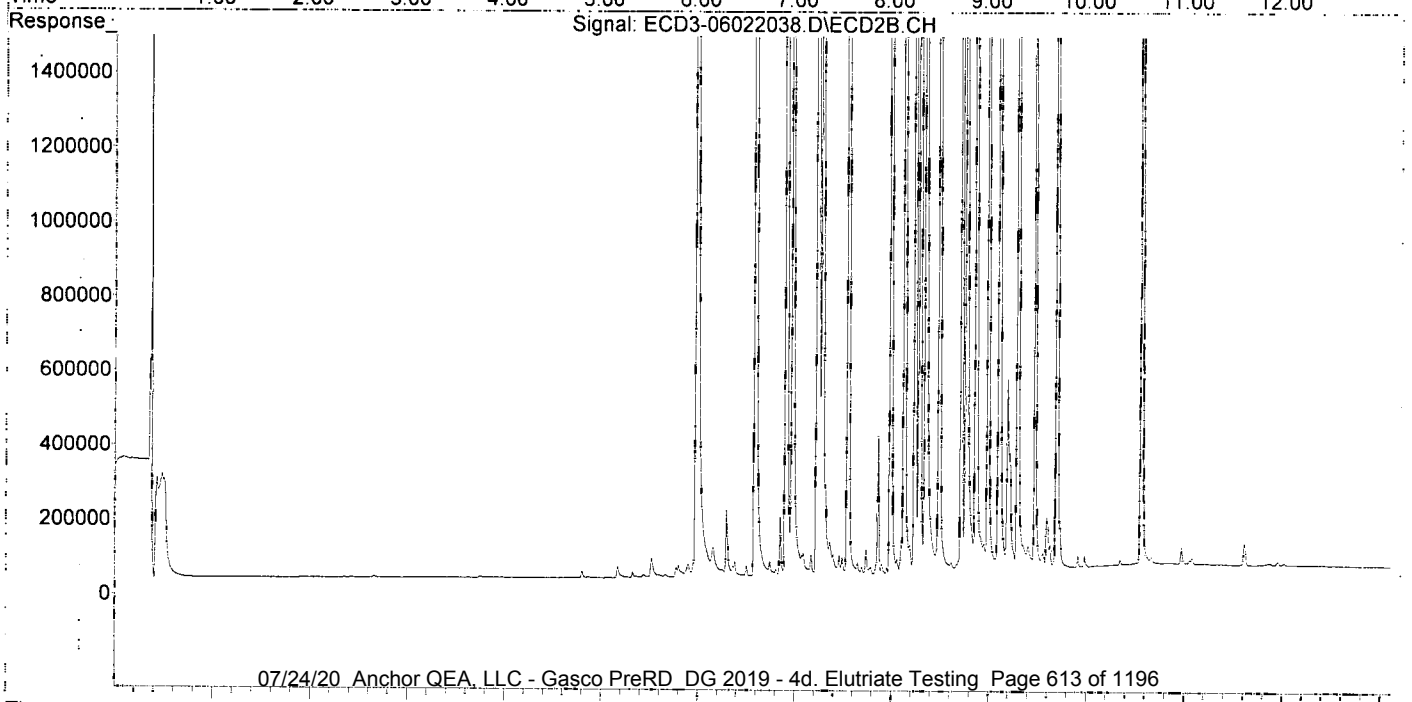
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 2:52
Operator : MJB
Sample : 0F02064-CCV7
Misc : A20E233, AB 100 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:53 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:09
Operator : MJB
Sample : 0F02064-CCV8
Misc : A20C359, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/19/20

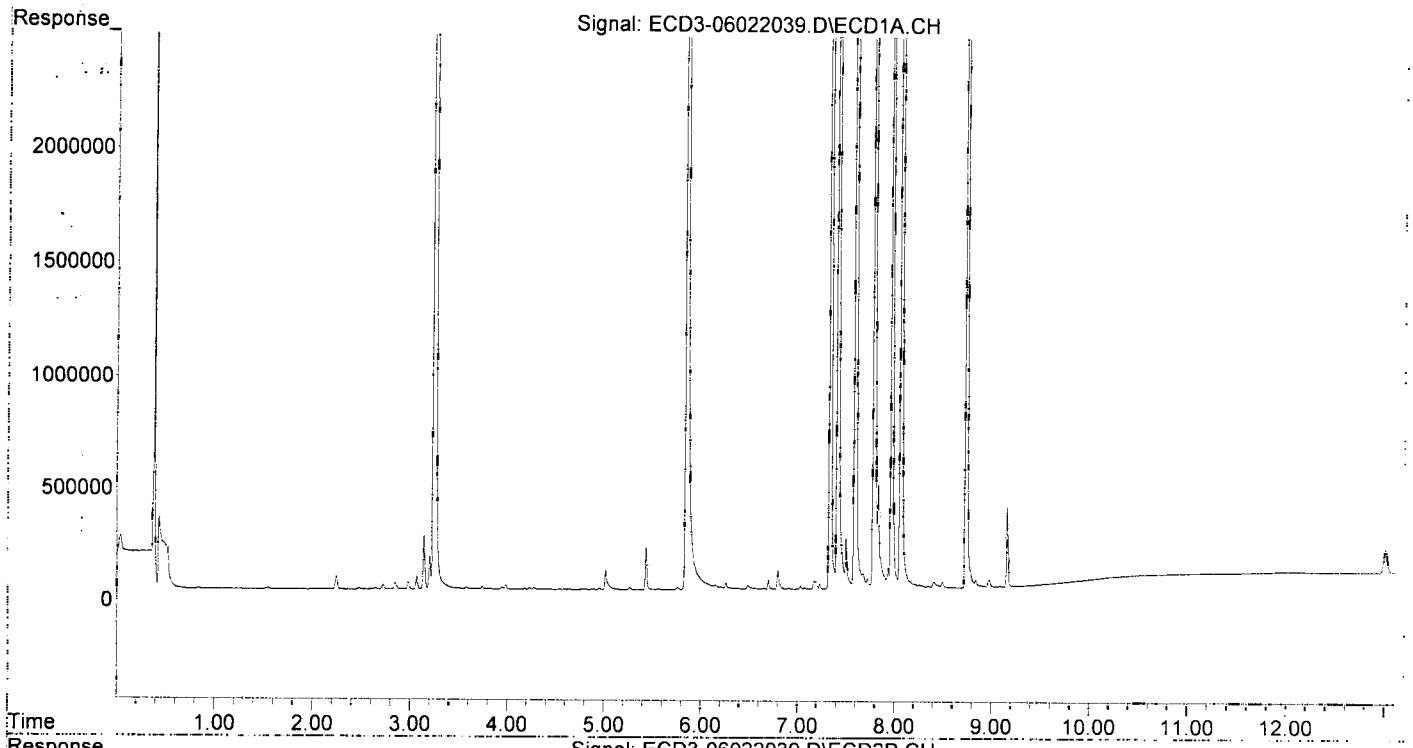
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.433f	0.000	188474	0	1.273	N.D.	#
22)	S DCBP (S)	0.000	10.556	0	407	N.D.	2280.083	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.260f	0.000	21730	0	0.126	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.699	7.283	40207	28612	0.246	0.253	
6)	d-BHC	6.488f	7.240	13664	5369	0.097	0.044	#
7)	Aldrin	6.906f	0.000	5955	0	0.036	N.D.	#
8)	Heptachlo...	7.410	8.026f	9732940	42339	62.238	0.360	#
9)	trans-Chl...	7.500	8.125	225519	7465215	1.433	61.899	#
10)	cis-Chlor...	7.591	8.238	16487696	545756	105.037	4.712	#
11)	Endosulfa...	7.679f	8.303	67043	45022	0.467	0.419	
12)	4,4'-DDE	7.679	0.000	67043	0	0.465	N.D.	#
13)	Dieldrin	0.000	8.500	0	6689164	N.D.	55.863	#
14)	Endrin	8.064f	8.725	17714927	5796321	143.600	67.048	#
15)	4,4'-DDD	8.064f	8.764	17714927	12350845	145.916	130.882	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	8.257f	8.975	14489	4032	0.261	0.144	#
18)	Endrin Al...	8.497	9.109	26662	9564	0.034	3407.089	#
19)	Endosulfa...	0.000	9.299	0	4130	N.D.	0.049	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.978	9.690	28135	7514327	0.195	78.540	#
23)	Hexachlor...	3.246	3.661	19351601	15538153	118.086	108.150	
24)	Hexachlor...	5.846	6.450	14189397	9156978	103.641	87.216	
25)	Oxychlordane	7.333	7.919	14686143	10483642	112.155	109.694	
26)	2,4'-DDE	7.410	8.125	9732940	7465215	104.352	101.014	
27)	trans-Non...	7.591	8.194	16487696	11987318	113.682	115.177	
28)	2,4'-DDD	7.785	8.500	8708423	6689164	105.853	103.545	
29)	2,4'-DDT	7.968	8.725	8628229	5796321	114.616	108.060	
30)	cis-Nonac...	8.064	8.764	17714927	12350845	113.428	110.739	
31)	Mirex	8.737	9.690	10794260	7514327	110.384	114.183	
32)	Chlordane...	7.722	8.303f	43841	45022	2.484	3.112	
33)	Chlordane...	7.832f	0.000	466032	0	22.490	N.D.	#
34)	Chlordane...	8.350	9.109	9618	9564	1.808	BelowCal	#
35)	Chlordane...	3.985	0.000	20236	0	NoCal	N.D.	
36)	Toxaphene...	7.785f	8.725f	8708423	5796321	10461.633	5175.373	#
37)	Toxaphene...	8.064f	0.000	17714927	0	11756.379	N.D.	#
38)	Toxaphene...	8.406	9.109f	26644	9564	8.566	4.406	#
39)	Toxaphene...	0.000	9.109f	0	9564	N.D.	BelowCal	
40)	Toxaphene...	0.000	9.299	0	4130	N.D.	BelowCal	
41)	Toxaphene...	8.978	9.690	28135	7514327	9.275	3712.624	#
42)	Toxaphene...	3.985	0.000	20236	0	NoCal	N.D.	

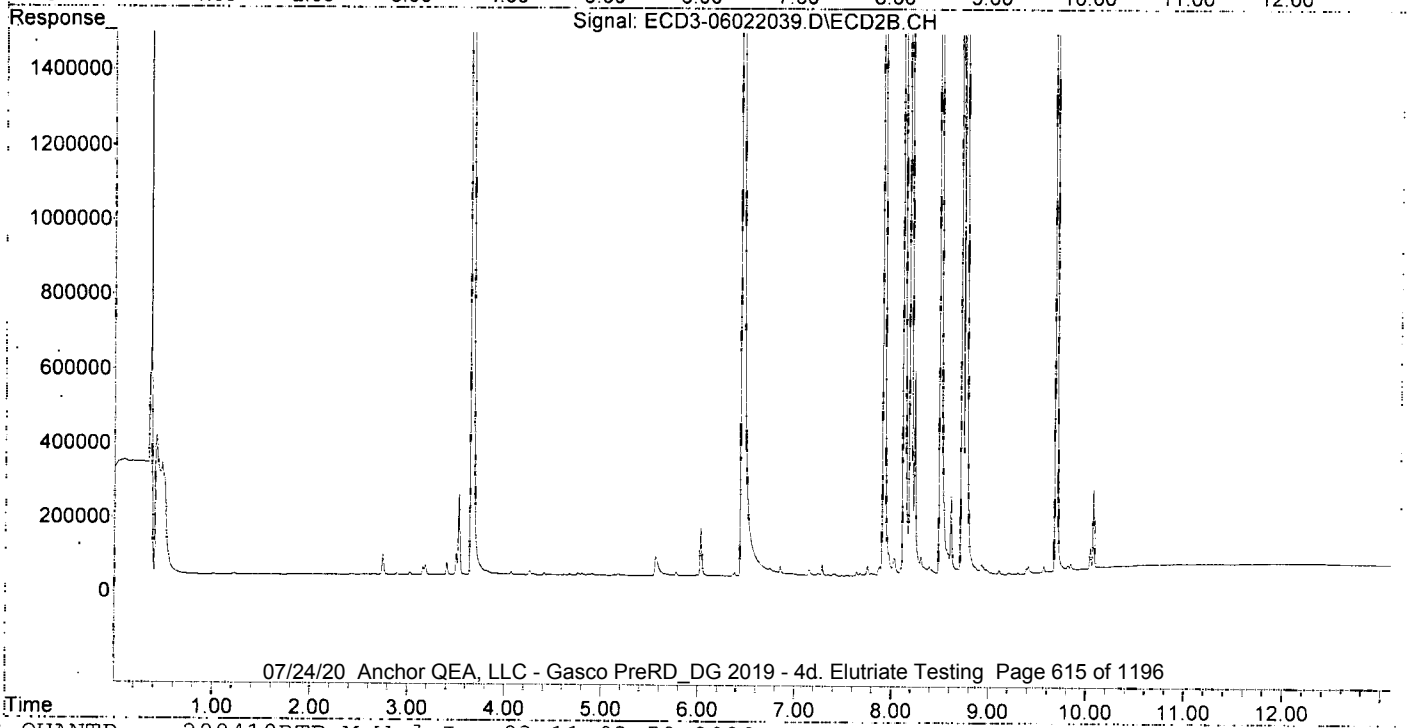
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:09
Operator : MJB
Sample : 0F02064-CCV8
Misc : A20C359, 9-42 100 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:03:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:26
Operator : MJB
Sample : 0F02064-CCB4
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:04:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/13/20

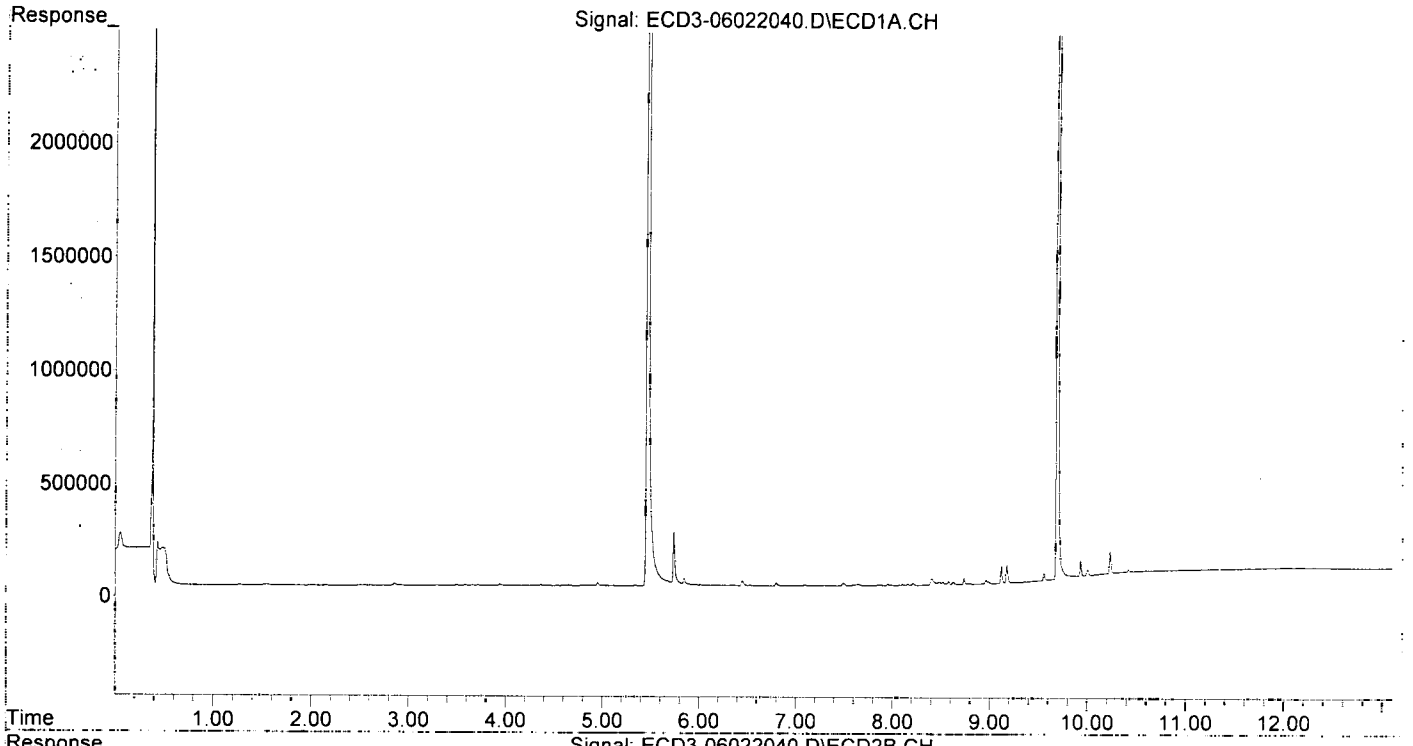
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.461	5.981	14484032	9076137	97.794	83.288	
22)	S	DCBP (S)	9.690	10.565	10910410	6984344	99.144	108.413	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	7.255f	0	4031	N.D.	0.036	#
6)		d-BHC	0.000	7.255f	0	4031	N.D.	0.033	#
7)		Aldrin	0.000	7.573f	0	7923	N.D.	0.060	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.490	0.000	11768	0	0.075	N.D.	#
10)		cis-Chlor...	0.000	0.000	0	0	N.D.	N.D.	
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	7.650	0.000	5933	0	0.041	N.D.	#
13)		Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)		Endrin	0.000	8.733	0	3649	N.D.	0.042	#
15)		4,4'-DDD	8.106	8.733f	4780	3649	0.039	0.039	
16)		Endosulfa...	8.213	8.878	9143	4505	0.076	0.049	
17)		4,4'-DDT	0.000	9.015f	0	7862	N.D.	0.215	#
18)		Endrin Al...	8.483	9.103	12535	7063	BelowCal	~~3407.120~~	Q-DCI
19)		Endosulfa...	8.792	9.299	4820	2870	0.040	0.034	
20)		Methoxychlor	8.628	0.000	10762	0	0.301	N.D.	#
21)		Endrin Ke...	8.991	9.697	8163	5004	0.057	0.052	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.846	0.000	28803	0	0.013	N.D.	#
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
27)		trans-Non...	0.000	8.195	0	3529	N.D.	~~1953.531~~	# Q-DCI
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	7.953	8.733	4293	3649	0.057	0.068	
30)		cis-Nonac...	8.106f	8.733f	4780	3649	BelowCal	~~2549.528~~	Q-DCI
31)		Mirex	8.738	9.697	27898	5004	~~2125.602~~	~~3567.455~~	#
32)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	8.407f	9.103	25921	7063	4.872	BelowCal	#
35)		Chlordane...	3.941f	0.000	4909	0	NoCal	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	8.106	9.015f	4780	7862	3.172	5.764	#
38)		Toxaphene...	8.407	9.103f	25921	7063	8.334	3.254	#
39)		Toxaphene...	8.628f	9.103f	10762	7063	BelowCal	BelowCal	
40)		Toxaphene...	0.000	9.299	0	2870	N.D.	BelowCal	
41)		Toxaphene...	8.963	9.697	15830	5004	5.219	2.472	#
42)		Toxaphene...	3.941f	0.000	4909	0	NoCal	N.D.	

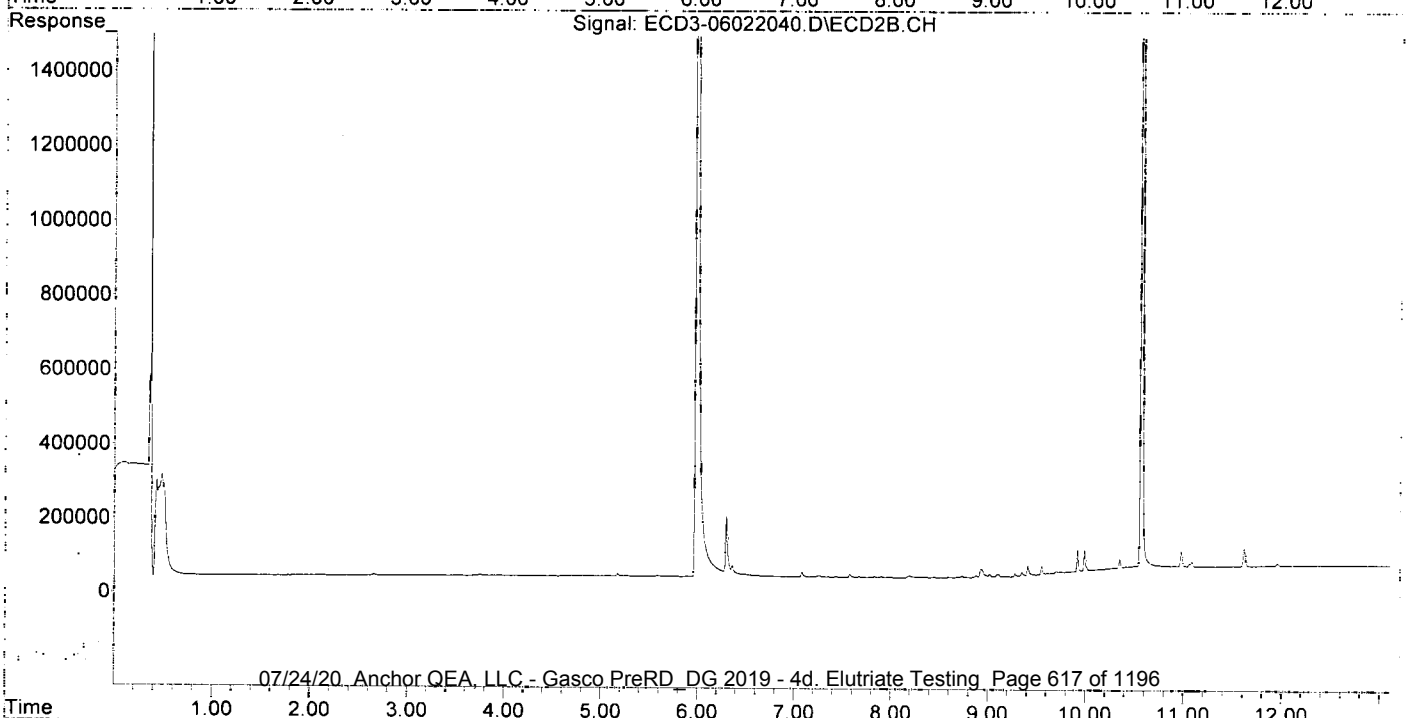
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:26
Operator : MJB
Sample : 0F02064-CCB4
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 11:04:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

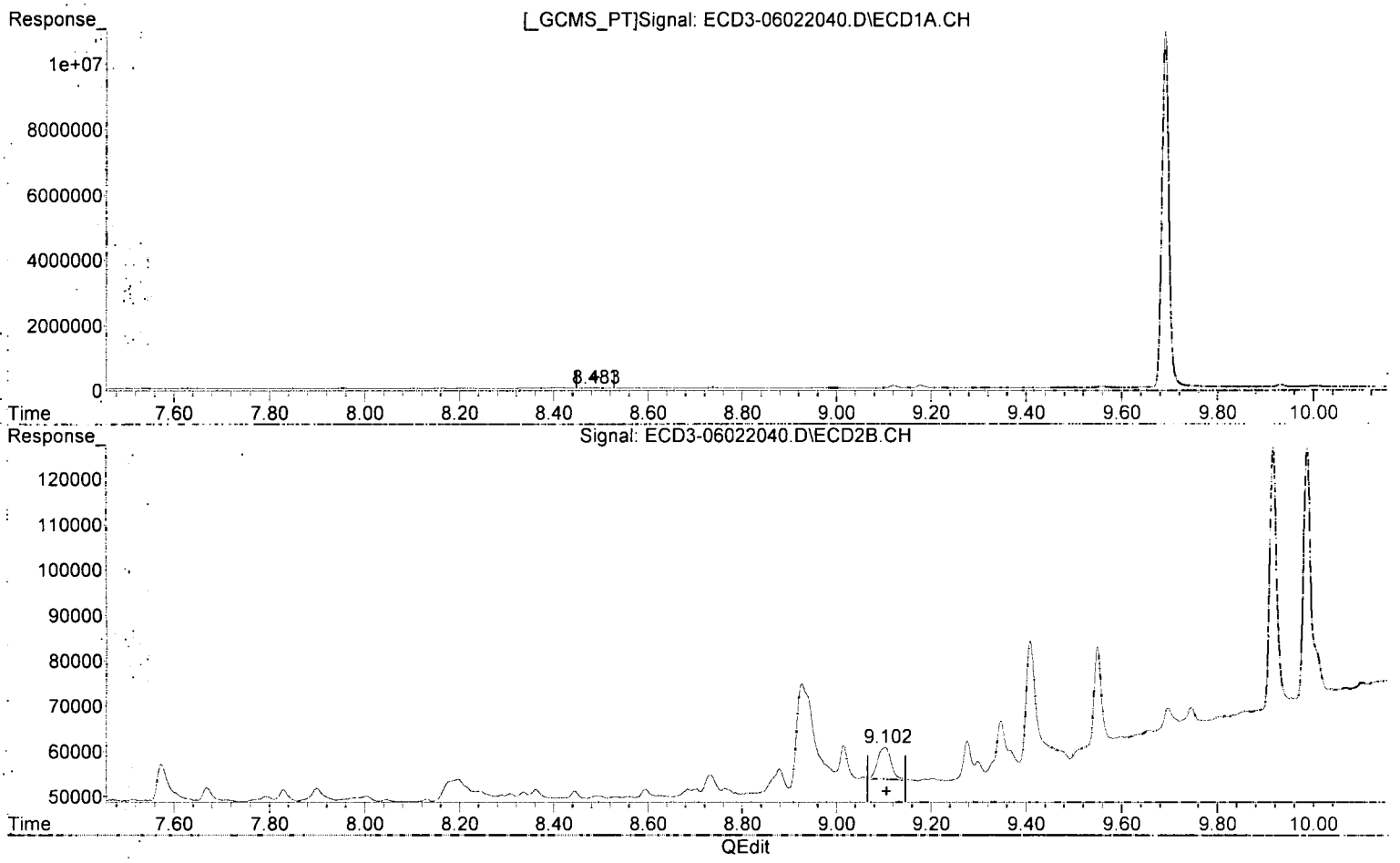




Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:26
Operator : MJB
Sample : 0F02064-CCB4
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 18:01:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.483min -0.103 ng/mL

response 12535

MB 6/19/20

(18) Endrin Aldehyde #2

9.103min 3407.120 ng/mL

response 7063

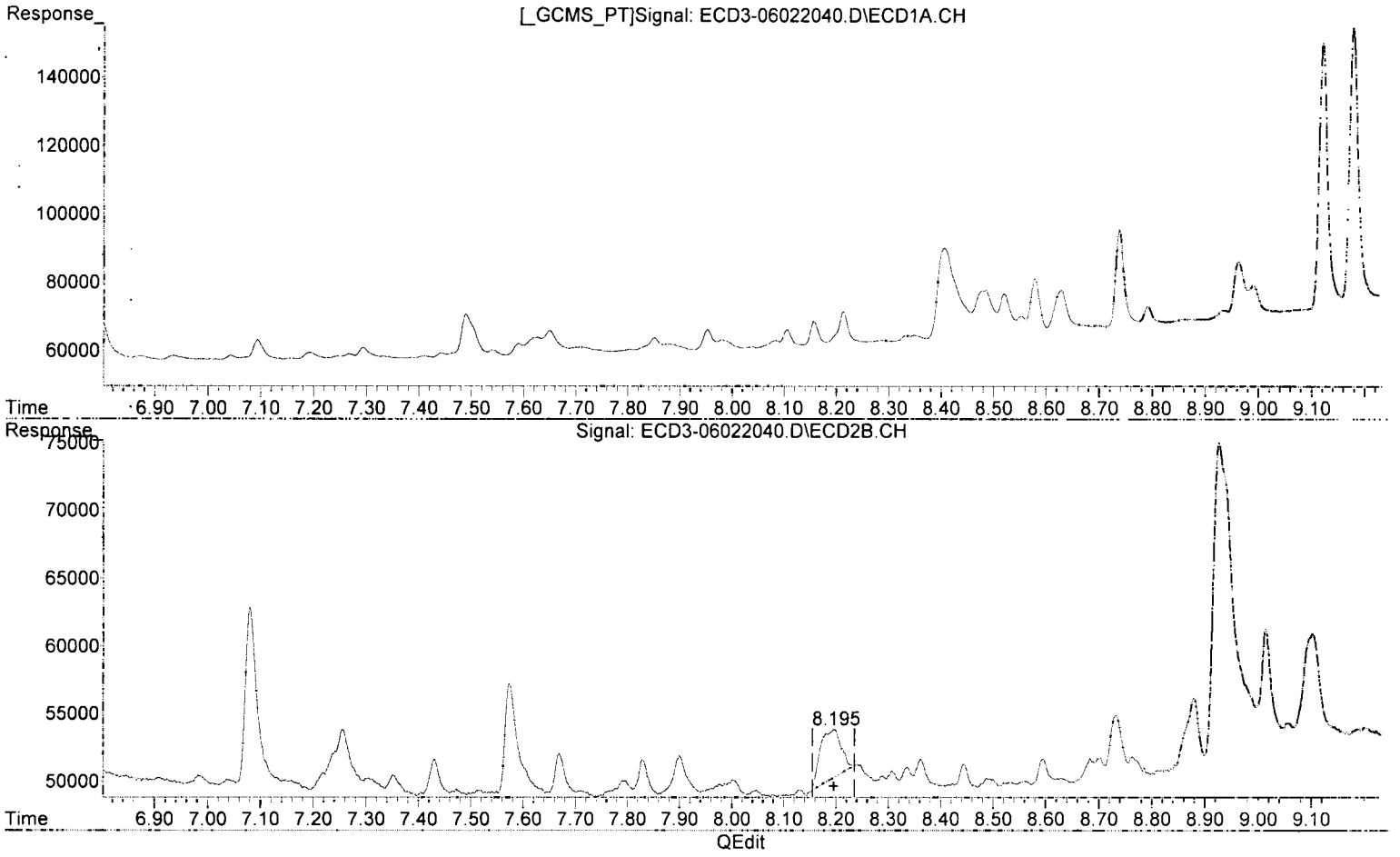
Q-DC1

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:26
Operator : MJB
Sample : 0F02064-CCB4
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 18:01:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

0.000min 0.000 ng/mL

response 0

WB 9/3/20

(27) trans-Nonachlor #2

8.195min 1953.531 ng/mL Q-D21

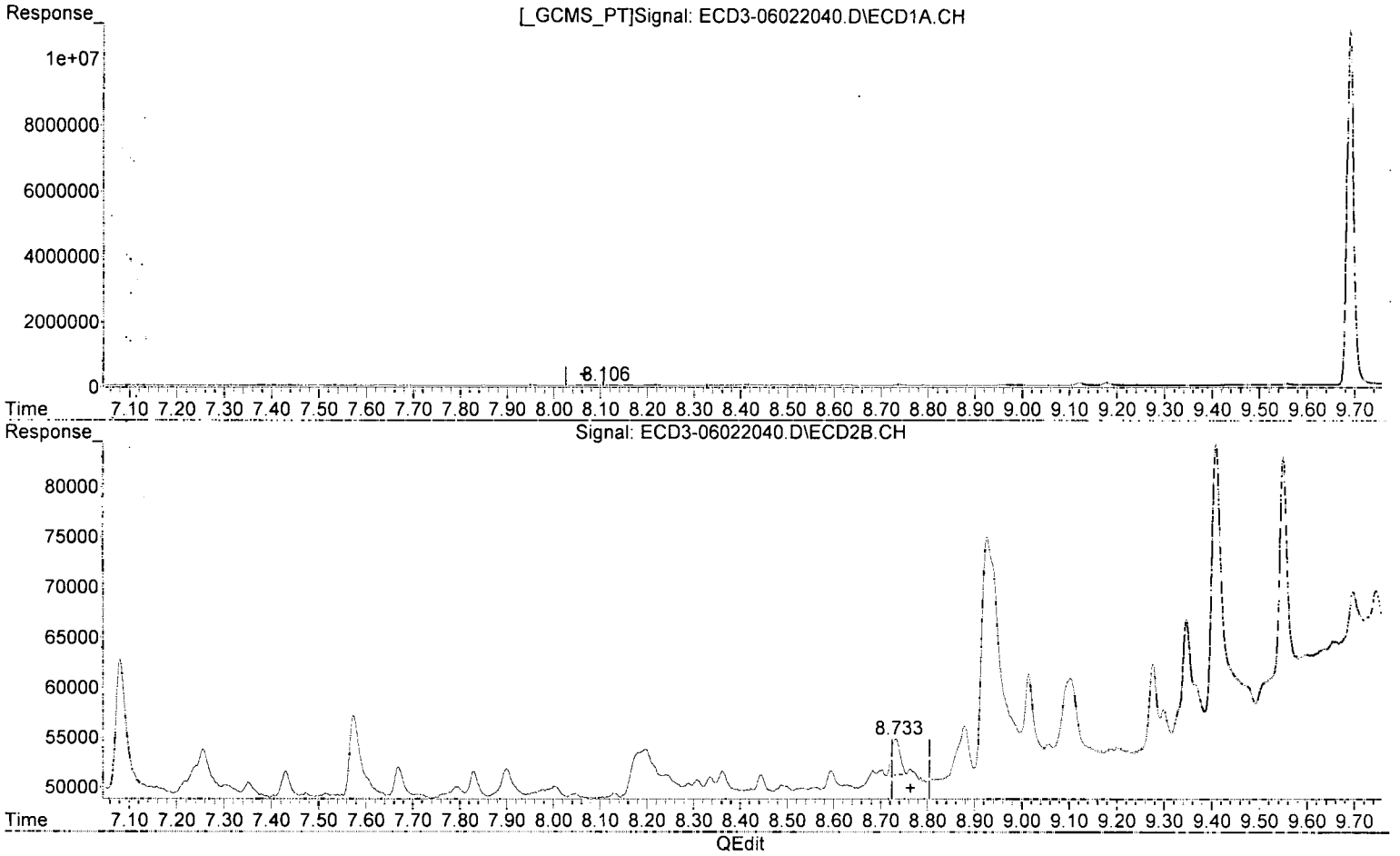
response 3529

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 18:01:50 2020 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:26
Operator : MJB
Sample : 0F02064-CCB4
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 18:01:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.106min -0.181 ng/mL

response 4780

MJB 6/3/20

(30) cis-Nonachlor #2

8.733min 2549.528 ng/mL Q-QC1

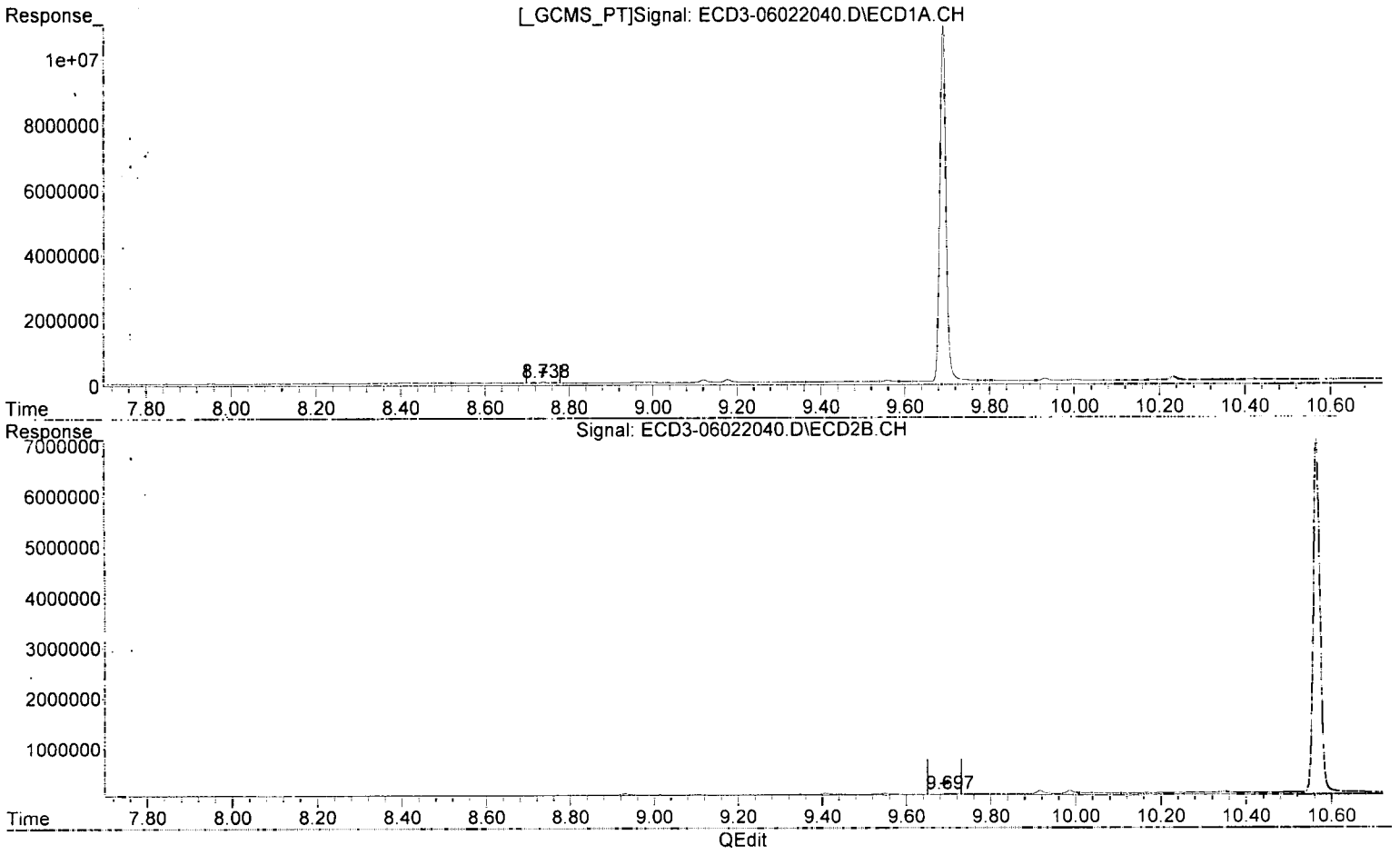
response 3649

(+) = Expected Retention Time
ECD3_QUANTP..._200410RTB.M Wed Jun 03 18:01:59 2020 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-06\0F02064\
Data File : ECD3-06022040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Jun 2020 3:26
Operator : MJB
Sample : 0F02064-CCB4
Misc : A20E115
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jun 03 18:01:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410RTB.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.738min 7125.602 ng/mL

response 27808

Q-PC1

MJB 6/3/20

(31) Mirex #2

9.697min 3567.455 ng/mL

response 5004

(+) = Expected Retention Time

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

Organochloride Pesticides by EPA 8081B
Calibration Data

Sequence 0D10031 (Cal ID A0D1308) DualECD3

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0D10031** Instrument: **DUALECD3**

Date: **04/10/20 10:58** Calibration: **A0D1308**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0D10031-BKD1	Water	QC	QC				A20C091
2	0D10031-ICB1	Water	QC	QC				A20C404
3	0D10031-CAL1	Water	QC	QC				A20D133
4	0D10031-CAL2	Water	QC	QC				A20D134
5	0D10031-CAL3	Water	QC	QC				A20C179
6	0D10031-CAL4	Water	QC	QC				A20C180
7	0D10031-CAL5	Water	QC	QC				A20C181
8	0D10031-CAL6	Water	QC	QC				A20C182
9	0D10031-CAL7	Water	QC	QC				A20C183
10	0D10031-CAL8	Water	QC	QC				A20C184
11	0D10031-CAL9	Water	QC	QC				A20C177
12	0D10031-IBL1	Water	QC	QC				
13	0D10031-ICV1	Water	QC	QC				A20C164
14	0D10031-CALA	Water	QC	QC				A20D135
15	0D10031-CALB	Water	QC	QC				A20C353
16	0D10031-CALC	Water	QC	QC				A20C354
17	0D10031-CALD	Water	QC	QC				A20C355
18	0D10031-CALE	Water	QC	QC				A20C356
19	0D10031-CALF	Water	QC	QC				A20C357
20	0D10031-CALG	Water	QC	QC				A20C358
21	0D10031-CALH	Water	QC	QC				A20C359
22	0D10031-CALI	Water	QC	QC				A20C352
23	0D10031-IBL2	Water	QC	QC				
24	0D10031-ICV2	Water	QC	QC				A20C360
25	0D10031-CALJ	Water	QC	QC				A20D136
26	0D10031-CALK	Water	QC	QC				A19K307
27	0D10031-CALL	Water	QC	QC				A19K308
28	0D10031-CALM	Water	QC	QC				A19K309
29	0D10031-CALN	Water	QC	QC				A19K310
30	0D10031-CALO	Water	QC	QC				A19K311
31	0D10031-CALP	Water	QC	QC				A19K306
32	0D10031-IBL3	Water	QC	QC				
33	0D10031-ICV3	Water	QC	QC				A19K312
34	0D10031-CALQ	Water	QC	QC				A20D137
35	0D10031-CALR	Water	QC	QC				A19J417
36	0D10031-CALS	Water	QC	QC				A19J418
37	0D10031-CALT	Water	QC	QC				A19J419
38	0D10031-CALU	Water	QC	QC				A19J420
39	0D10031-CALV	Water	QC	QC				A19J421
40	0D10031-CALW	Water	QC	QC				A19J416
41	0D10031-IBL4	Water	QC	QC				
42	0D10031-ICV4	Water	QC	QC				A19J422

Comments:

Data Entered By: MJB 4/13/20

Data Reviewed By: [signature] 4/13/20

Calibration Status Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

AOD1306

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102036.D
2	2	50	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102037.D
3	3	100	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102038.D
4	4	200	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102039.D
5	5	500	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102040.D
6	6	1000	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102041.D
7	7	2000	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102042.D
8	8	-1	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102023.D
9	9	-1	0	C:\msdchem\3\data\2020-04\0D10031\ECD3-04102024.D

MJB 4/13/20

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Apr 13 12:06 2020	Apr 13 11:59 2020	10 Apr 2020 21:14
2	2	Apr 13 12:06 2020	Apr 13 11:59 2020	10 Apr 2020 21:31
3	3	Apr 13 12:06 2020	Apr 13 12:00 2020	10 Apr 2020 21:48
4	4	Apr 13 12:06 2020	Apr 13 12:00 2020	10 Apr 2020 22:05
5	5	Apr 13 12:06 2020	Apr 13 11:57 2020	10 Apr 2020 22:22
6	6	Apr 13 12:07 2020	Apr 13 12:01 2020	10 Apr 2020 22:39
7	7	Apr 13 12:07 2020	Apr 13 12:01 2020	10 Apr 2020 22:56
8	8	Apr 13 12:04 2020	Apr 13 11:47 2020	10 Apr 2020 17:31
9	9	Apr 13 12:05 2020	Apr 13 11:48 2020	10 Apr 2020 17:49

ECD3_QUANTPEST_200410.M Mon Apr 13 14:58:38 2020

Response Factor Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD3-04102036.D 2 =ECD3-04102037.D 3 =ECD3-04102038.D
4 =ECD3-04102039.D 5 =ECD3-04102040.D 6 =ECD3-04102041.D

MJB 4/13/20

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	1.715	1.506	1.473	1.455	1.450	1.448	1.481	E5	6.31
2)		a-BHC	2.122	1.988	1.930	2.024	1.992	1.988	2.023	E5	3.34
3)		g-BHC	1.824	1.630	1.654	1.730	1.722	1.717	1.727	E5	3.88
4)		b-BHC	7.442	6.610	6.673	6.535	6.218	6.724	6.822	E4	6.38
5)		Heptachlor	1.768	1.623	1.559	1.599	1.629	1.594	1.637	E5	4.45
6)		d-BHC	1.325	1.233	1.290	1.339	1.349	1.408	1.404	E5	10.13
7)		Aldrin	1.841	1.654	1.655	1.676	1.665	1.648	1.676	E5	4.23
8)		Heptachlor Ex...	1.827	1.604	1.559	1.561	1.525	1.502	1.564	E5	6.85
9)		trans-Chlordane	1.756	1.604	1.544	1.559	1.503	1.526	1.574	E5	5.00
10)		cis-Chlordane	1.979	1.624	1.550	1.568	1.485	1.481	1.570	E5	10.41
11)		Endosulfan I	1.649	1.454	1.421	1.425	1.386	1.387	1.435	E5	6.02
12)		4,4'-DDE	1.533	1.324	1.323	1.426	1.382	1.470	1.443	E5	6.21
13)		Dieldrin	1.733	1.607	1.560	1.611	1.588	1.595	1.607	E5	3.58
14)		Endrin	1.267	1.188	1.166	1.202	1.200	1.219	1.234	E5	4.79
15)		4,4'-DDD	1.353	1.183	1.146	1.161	1.144	1.223	1.214	E5	6.23
16)		Endosulfan II	1.342	1.197	1.167	1.179	1.208	1.186	1.211	E5	4.83
17)		4,4'-DDT	0.748	0.735	0.727	0.805	0.875	0.983	0.915	E5	19.93
18)		Endrin Aldehyde	1.471	1.273	1.189	1.091	1.043	1.029	1.131	E5	13.77
19)		Endosulfan Su...	1.449	1.264	1.166	1.161	1.142	1.136	1.205	E5	8.32
20)		Methoxychlor	3.882	3.901	3.715	4.095	4.277	4.459	4.409	E4	15.01
21)		Endrin Ketone	1.669	1.529	1.427	1.377	1.381	1.378	1.440	E5	6.91
22)	S	DCBP (S)	1.575	1.354	1.248	1.174	1.131	1.091	1.203	E5	14.04
23)		Hexachlorobut...	2.246	2.110	1.907	1.716	1.690	1.695	1.818	E5	12.52
24)		Hexachloroben...	1.818	1.715	1.475	1.349	1.319	1.364	1.462	E5	12.33
25)		Oxychlordane	1.742	1.677	1.480	1.294	1.300	1.312	1.410	E5	12.87
26)		2,4'-DDE	1.198	1.144	0.989	0.898	0.889	0.948	0.985	E5	11.23
27)		trans-Nonachlor	1.945	1.897	1.599	1.444	1.431	1.445	1.566	E5	13.43
28)		2,4'-DDD	1.131	1.060	0.937	0.805	0.810	0.840	0.893	E5	13.79
29)		2,4'-DDT	8.331	7.798	6.699	6.879	6.654	7.564	7.528	E4	8.60
30)		cis-Nonachlor	2.119	1.973	1.711	1.560	1.525	1.573	1.680	E5	12.96
31)		Mirex	1.648	1.479	1.245	1.043	0.977	0.978	1.142	E5	22.68
32)		Chlordane (1)	1.819	1.720	1.921	1.773	1.651	1.630	1.765	E4	5.96
33)		Chlordane (2)	2.244	2.041	2.178	2.064	1.970	1.892	2.072	E4	5.79
34)		Chlordane (3)	5.553	5.048	5.253	5.557	5.280	4.919	5.321	E3	5.15
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	9.912	8.400	8.331	7.673	8.012	7.939	8.324	E2	8.91
37)		Toxaphene (2)	1.556	1.650	1.565	1.430	1.458	1.454	1.507	E3	5.60
38)		Toxaphene (3)	3.245	3.178	3.117	2.931	3.081	3.093	3.110	E3	3.11
39)		Toxaphene (4)	4.482	3.166	3.038	2.826	2.886	2.982	3.210	E3	17.84
40)		Toxaphene (5)	2.349	2.383	2.296	2.196	2.344	2.385	2.355	E3	4.31
41)		Toxaphene (6)	3.417	3.020	2.911	2.796	2.936	3.017	3.033	E3	6.58
42)		Toxaphene - AVE							0.000		-1.00

Signal #2 Calibration Files
1 =ECD3-04102036.D 2 =ECD3-04102037.D 3 =ECD3-04102038.D
4 =ECD3-04102039.D 5 =ECD3-04102040.D 6 =ECD3-04102041.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	1.460	1.272	1.211	1.204	1.165	1.117	1.179	E5	11.11
2)		a-BHC	1.749	1.602	1.591	1.619	1.592	1.557	1.570	E5	5.85
3)		g-BHC	1.518	1.374	1.355	1.346	1.349	1.345	1.347	E5	5.63
4)		b-BHC	7.434	6.625	6.396	6.059	5.831	5.767	6.142	E4	9.57
5)		Heptachlor	1.273	1.161	1.117	1.129	1.106	1.108	1.132	E5	5.02
6)		d-BHC	1.327	1.184	1.170	1.242	1.223	1.241	1.222	E5	3.91
7)		Aldrin	1.523	1.368	1.345	1.400	1.316	1.299	1.329	E5	7.22
8)		Heptachlor Ex...	1.397	1.220	1.205	1.182	1.175	1.134	1.177	E5	8.28
9)		trans-Chlordane	1.423	1.265	1.203	1.211	1.202	1.191	1.206	E5	8.11
10)		cis-Chlordane	1.402	1.245	1.176	1.171	1.132	1.110	1.158	E5	9.62
11)		Endosulfan I	1.317	1.101	1.099	1.092	1.056	1.045	1.075	E5	9.58

Response Factor Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD3-04102036.D 2 =ECD3-04102037.D 3 =ECD3-04102038.D
4 =ECD3-04102039.D 5 =ECD3-04102040.D 6 =ECD3-04102041.D

		Compound	1	2	3	4	5	6	Avg		%RSD
12)		4,4'-DDE	1.287	1.160	1.155	1.170	1.137	1.151	1.152	E5	5.16
13)		Dieldrin	1.380	1.209	1.184	1.205	1.197	1.168	1.197	E5	6.28
14)		Endrin	9.416	8.680	8.356	8.395	8.620	8.515	8.645	E4	3.83
15)		4,4'-DDD	1.174	1.015	0.922	0.933	0.890	0.885	0.944	E5	10.22
16)		Endosulfan II	1.105	0.952	0.913	0.906	0.876	0.881	0.917	E5	8.21
17)		4,4'-DDT	4.956	4.972	4.466	5.203	5.787	5.986	5.810	E4	17.60
18)		Endrin Aldehyde	1.175	1.001	0.959	0.848	0.811	0.781	0.876	E5	16.09
19)		Endosulfan Su...	1.003	0.883	0.832	0.814	0.797	0.808	0.842	E5	7.95
20)		Methoxychlor	2.382	2.492	2.341	2.548	2.694	2.757	2.779	E4	15.82
21)		Endrin Ketone	1.147	1.006	0.945	0.928	0.942	0.900	0.957	E5	8.16
22)	S	DCBP (S)	1.009	0.816	0.766	0.729	0.702	0.664	0.732	E5	16.63
23)		Hexachlorobut...	2.255	2.102	1.864	1.697	1.633	1.535	1.706	E5	18.54
24)		Hexachloroben...	1.572	1.451	1.242	1.107	1.102	1.096	1.183	E5	16.97
25)		Oxychlordane	1.359	1.318	1.131	0.981	0.993	0.985	1.067	E5	15.43
26)		2,4'-DDE	1.095	1.020	0.879	0.791	0.776	0.775	0.835	E5	16.34
27)		trans-Nonachlor	1.531	1.454	1.257	1.114	1.089	1.107	1.183	E5	16.06
28)		2,4'-DDD	1.012	0.933	0.791	0.684	0.666	0.659	0.740	E5	19.10
29)		2,4'-DDT	6.487	5.694	4.830	4.808	4.722	5.327	5.364	E4	10.41
30)		cis-Nonachlor	1.663	1.533	1.315	1.188	1.133	1.176	1.261	E5	16.23
31)		Mirex	1.209	1.009	0.836	0.739	0.672	0.688	0.790	E5	24.93
32)		Chlordane (1)	1.566	1.470	1.637	1.452	1.352	1.294	1.447	E4	8.53
33)		Chlordane (2)	1.389	1.266	1.360	1.254	1.131	1.110	1.236	E4	9.11
34)		Chlordane (3)	5.139	3.911	3.957	3.727	3.518	3.350	3.909	E3	14.90
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	1.144	1.226	1.168	1.043	1.098	1.091	1.120	E3	5.64
37)		Toxaphene (2)	1.496	1.451	1.354	1.243	1.322	1.318	1.364	E3	6.25
38)		Toxaphene (3)	2.612	2.290	2.111	1.974	2.062	2.069	2.170	E3	10.00
39)		Toxaphene (4)	6.257	3.808	3.460	3.198	3.261	3.309	3.806	E3	28.89
40)		Toxaphene (5)	2.393	1.988	1.860	1.779	1.865	1.879	1.952	E3	10.46
41)		Toxaphene (6)	2.434	2.064	1.943	1.851	1.918	1.938	2.024	E3	9.56
42)		Toxaphene - AVE							0.000		-1.00

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

Compound List Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Total Cpnds : 85

MJP 4/13/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.562	1.000	A	H	R
2		a-BHC	6.108	1.000	A	H	R
3		g-BHC	6.395	1.000	A	H	R
4		b-BHC	6.470	1.000	A	H	R
5		Heptachlor	6.808	1.000	A	H	R
6		d-BHC	6.624	1.000	A	H	R
7		Aldrin	7.053	1.000	A	H	R
8		Heptachlor Expoxide	7.520	1.000	A	H	R
9		trans-Chlordane	7.615	1.000	A	H	R
10		cis-Chlordane	7.713	1.000	A	H	R
11		Endosulfan I	7.814	1.000	A	H	R
12		4,4'-DDE	7.772	1.000	A	H	R
13		Dieldrin	7.987	1.000	A	H	R
14		Endrin	8.154	1.000	A	H	R
15		4,4'-DDD	8.200	1.000	A	H	R
16		Endosulfan II	8.313	1.000	A	H	R
17		4,4'-DDT	8.398	1.000	Q	H	R
18		Endrin Aldehyde	8.606	1.000	Q	H	R
19		Endosulfan Sulfate	8.912	1.000	A	H	R
20		Methoxychlor	8.737	1.000	Q	H	R
21		Endrin Ketone	9.109	1.000	A	H	R
22	S	DCBP (S)	9.807	1.000	Q	H	R
23		Hexachlorobutadiene	3.341	1.000	Q	H	R
24		Hexachlorobenzene	5.947	1.000	Q	H	R
25		Oxychlordane	7.446	1.000	Q	H	R
26		2,4'-DDE	7.519	1.000	Q	H	R
27		trans-Nonachlor	7.703	1.000	Q	H	R
28		2,4'-DDD	7.896	1.000	Q	H	R
29		2,4'-DDT	8.081	1.000	A	H	R
30		cis-Nonachlor	8.179	1.000	Q	H	R
31		Mirex	8.856	1.000	Q	H	R
32		Chlordane (1)	7.613	1.000	A	H	R
33		Chlordane (2)	7.707	1.000	A	H	R
34		Chlordane (3)	8.264	1.000	A	H	R
35		Chlordane - AVE	3.819	1.000	A	H	R
36		Toxaphene (1)	7.685	1.000	A	H	R
37		Toxaphene (2)	7.982	1.000	A	H	R
38		Toxaphene (3)	8.298	1.000	A	H	R
39		Toxaphene (4)	8.540	1.000	Q	H	R
40		Toxaphene (5)	8.772	1.000	A	H	R
41		Toxaphene (6)	8.842	1.000	A	H	R
42		Toxaphene - AVE	3.821	1.000	A	H	R
43		Signal #2	3.792	1.000	A	H	R
44	S	TCMX (S) #2	6.061	1.000	Q	H	R
45		a-BHC #2	6.674	1.000	A	H	R
46		g-BHC #2	6.993	1.000	A	H	R
47		b-BHC #2	7.057	1.000	A	H	R
48		Heptachlor #2	7.371	1.000	A	H	R
49		d-BHC #2	7.315	1.000	A	H	R
50		Aldrin #2	7.640	1.000	A	H	R
51		Heptachlor Expoxide #2	8.082	1.000	A	H	R
52		trans-Chlordane #2	8.222	1.000	A	H	R
53		cis-Chlordane #2	8.331	1.000	A	H	R
54		Endosulfan I #2	8.382	1.000	A	H	R
55		4,4'-DDE #2	8.437	1.000	A	H	R
56		Dieldrin #2	8.584	1.000	A	H	R

57		Endrin #2	8.814	1.000	A	H	R
58		4,4'-DDD #2	8.856	1.000	A	H	R
59		Endosulfan II #2	8.962	1.000	A	H	R
60		4,4'-DDT #2	9.084	1.000	Q	H	R
61		Endrin Aldehyde #2	9.201	1.000	Q	H	R
62		Endosulfan Sulfate #2	9.392	1.000	A	H	R
63		Methoxychlor #2	9.567	1.000	Q	H	R
64		Endrin Ketone #2	9.797	1.000	A	H	R
65	S	DCBP (S) #2	10.678	1.000	Q	H	R
66		Hexachlorobutadiene #2	3.735	1.000	Q	H	R
67		Hexachlorobenzene #2	6.532	1.000	Q	H	R
68		Oxychlordane #2	8.009	1.000	Q	H	R
69		2,4'-DDE #2	8.214	1.000	Q	H	R
70		trans-Nonachlor #2	8.285	1.000	Q	H	R
71		2,4'-DDD #2	8.591	1.000	Q	H	R
72		2,4'-DDT #2	8.816	1.000	A	H	R
73		cis-Nonachlor #2	8.856	1.000	Q	H	R
74		Mirex #2	9.789	1.000	Q	H	R
75		Chlordane (1) #2	8.220	1.000	A	H	R
76		Chlordane (2) #2	8.329	1.000	A	H	R
77		Chlordane (3) #2	8.996	1.000	Q	H	R
78		Chlordane - AVE #2	3.789	1.000	A	H	R
79		Toxaphene (1) #2	8.556	1.000	A	H	R
80		Toxaphene (2) #2	8.906	1.000	A	H	R
81		Toxaphene (3) #2	8.941	1.000	A	H	R
82		Toxaphene (4) #2	9.009	1.000	Q	H	R
83		Toxaphene (5) #2	9.187	1.000	Q	H	R
84		Toxaphene (6) #2	9.572	1.000	A	H	R
85		Toxaphene - AVE #2	3.789	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

ECD3_QUANTPEST_200410.M Mon Apr 13 14:58:48 2020

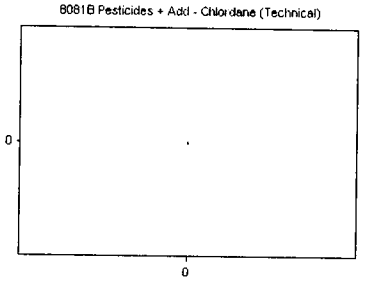
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

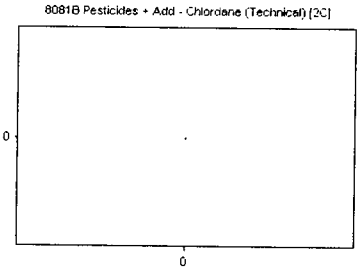


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	0	0.000	0.00
0D10031-CALK	50	0	0.000	0.00
0D10031-CALL	100	0	0.000	0.00
0D10031-CALM	200	0	0.000	0.00
0D10031-CALN	500	0	0.000	0.00
0D10031-CALO	1000	0	0.000	0.00
0D10031-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

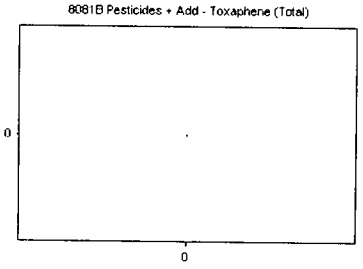


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	0	0.000	0.00
0D10031-CALK	50	0	0.000	0.00
0D10031-CALL	100	0	0.000	0.00
0D10031-CALM	200	0	0.000	0.00
0D10031-CALN	500	0	0.000	0.00
0D10031-CALO	1000	0	0.000	0.00
0D10031-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

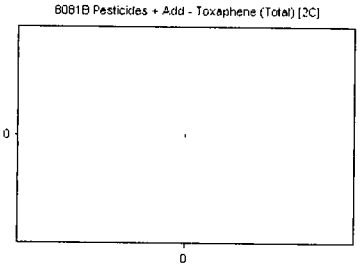


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	0	0.000	0.00
0D10031-CALR	50	0	0.000	0.00
0D10031-CALS	100	0	0.000	0.00
0D10031-CALT	200	0	0.000	0.00
0D10031-CALU	500	0	0.000	0.00
0D10031-CALV	1000	0	0.000	0.00
0D10031-CALW	2000	0	0.000	0.00

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
0D10031-CALQ	10	0	0.000	0.00
0D10031-CALR	50	0	0.000	0.00
0D10031-CALS	100	0	0.000	0.00
0D10031-CALT	200	0	0.000	0.00
0D10031-CALU	500	0	0.000	0.00
0D10031-CALV	1000	0	0.000	0.00
0D10031-CALW	2000	0	0.000	0.00

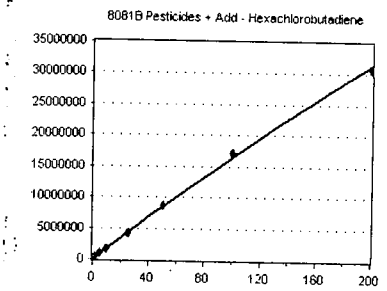
AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Hexachlorobutadiene

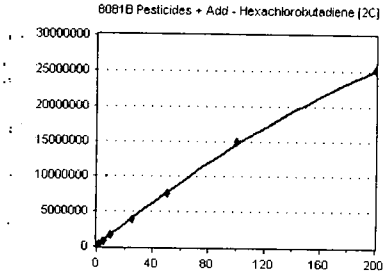


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	112302	224604.000	3.34
0D10031-CALB	1	210953	210953.000	3.34
0D10031-CALC	2	381441	190720.500	3.34
0D10031-CALD	5	857802	171560.400	3.34
0D10031-CALE	10	1689587	168958.700	3.34
0D10031-CALF	25	4236498	169459.900	3.34
0D10031-CALG	50	8735674	174713.500	3.34
0D10031-CALH	100	1.720714E+07	172071.400	3.34
0D10031-CALI	200	3.065493E+07	153274.700	3.34

AVE RF **181812.900** RF RSD **12.52** AVE RT **3.34**

Hexachlorobutadiene [2C]

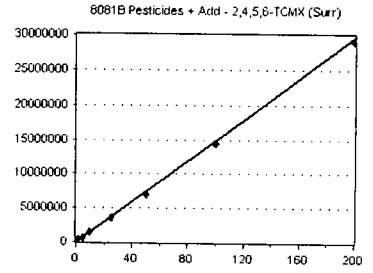


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	112755	225510.000	3.74
0D10031-CALB	1	210162	210162.000	3.74
0D10031-CALC	2	372830	186415.000	3.74
0D10031-CALD	5	848292	169658.400	3.74
0D10031-CALE	10	1632647	163264.700	3.74
0D10031-CALF	25	3836415	153456.600	3.74
0D10031-CALG	50	7661028	153220.600	3.74
0D10031-CALH	100	1.484303E+07	148430.300	3.74
0D10031-CALI	200	2.50979E+07	125489.500	3.74

AVE RF **170623.000** RF RSD **18.54** AVE RT **3.74**

2,4,5,6-TCMX (Surr)

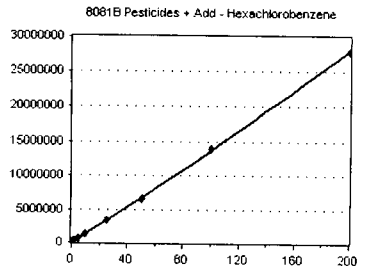


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	85749	171498.000	5.56
0D10031-CAL2	1	150599	150599.000	5.56
0D10031-CAL3	2	294629	147314.500	5.56
0D10031-CAL4	5	727524	145504.800	5.56
0D10031-CAL5	10	1449955	144995.500	5.56
0D10031-CAL6	25	3620730	144829.200	5.56
0D10031-CAL7	50	6908561	138171.200	5.56
0D10031-CAL8	100	1.450896E+07	145089.600	5.56
0D10031-CAL9	200	2.899233E+07	144961.700	5.56

AVE RF **148107.100** RF RSD **6.31** AVE RT **5.56**

Hexachlorobenzene



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	90891	181782.000	5.95
0D10031-CALB	1	171487	171487.000	5.95
0D10031-CALC	2	294999	147499.500	5.95
0D10031-CALD	5	674330	134866.000	5.95
0D10031-CALE	10	1319038	131903.800	5.95
0D10031-CALF	25	3410831	136433.200	5.95
0D10031-CALG	50	6661991	133239.800	5.95
0D10031-CALH	100	1.39059E+07	139059.000	5.95
0D10031-CALI	200	2.79172E+07	139586.000	5.95

AVE RF **146206.300** RF RSD **12.33** AVE RT **5.95**

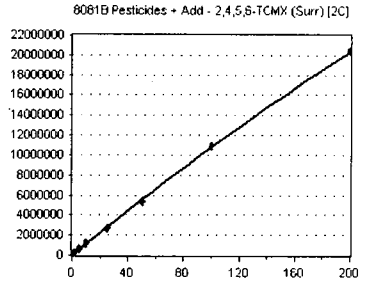
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

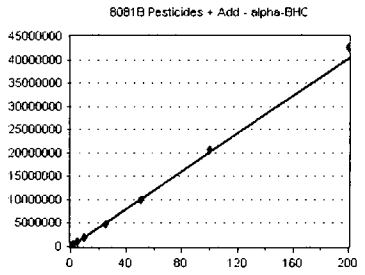


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	73007	146014.000	6.06
0D10031-CAL2	1	127191	127191.000	6.06
0D10031-CAL3	2	242169	121084.500	6.06
0D10031-CAL4	5	601812	120362.400	6.06
0D10031-CAL5	10	1164651	116465.100	6.06
0D10031-CAL6	25	2793596	111743.800	6.06
0D10031-CAL7	50	5350810	107016.200	6.06
0D10031-CAL8	100	1.094267E+07	109426.700	6.06
0D10031-CAL9	200	2.04145E+07	102072.500	6.06

AVE RF **117930.700** RF RSD **11.11** AVE RT **6.06**

alpha-BHC

Curve Fit: **AVERAGE RF**

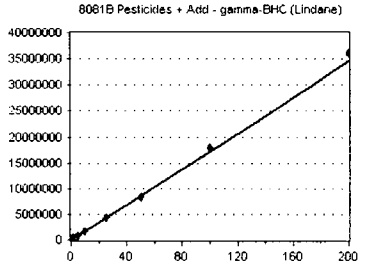


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	106090	212180.000	6.11
0D10031-CAL2	1	198771	198771.000	6.11
0D10031-CAL3	2	386030	193015.000	6.11
0D10031-CAL4	5	1011773	202354.600	6.11
0D10031-CAL5	10	1992062	199206.200	6.11
0D10031-CAL6	25	4970390	198815.600	6.11
0D10031-CAL7	50	9856715	197134.300	6.11
0D10031-CAL8	100	2.069031E+07	206903.100	6.11
0D10031-CAL9	200	4.245424E+07	212271.200	6.11

AVE RF **202294.600** RF RSD **3.34** AVE RT **6.11**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

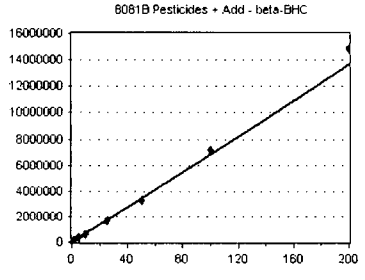


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	91195	182390.000	6.39
0D10031-CAL2	1	162951	162951.000	6.39
0D10031-CAL3	2	330735	165367.500	6.40
0D10031-CAL4	5	864784	172956.800	6.40
0D10031-CAL5	10	1722298	172229.800	6.40
0D10031-CAL6	25	4292566	171702.600	6.40
0D10031-CAL7	50	8390299	167806.000	6.40
0D10031-CAL8	100	1.785213E+07	178521.300	6.40
0D10031-CAL9	200	3.604254E+07	180212.700	6.40

AVE RF **172682.000** RF RSD **3.88** AVE RT **6.39**

beta-BHC

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	37211	74422.000	6.47
0D10031-CAL2	1	66101	66101.000	6.47
0D10031-CAL3	2	133460	66730.000	6.47
0D10031-CAL4	5	326774	65354.800	6.47
0D10031-CAL5	10	621775	62177.500	6.47
0D10031-CAL6	25	1680896	67235.840	6.47
0D10031-CAL7	50	3275829	65516.580	6.47
0D10031-CAL8	100	7197743	71977.430	6.47
0D10031-CAL9	200	1.489687E+07	74484.350	6.47

AVE RF **68222.170** RF RSD **6.38** AVE RT **6.47**

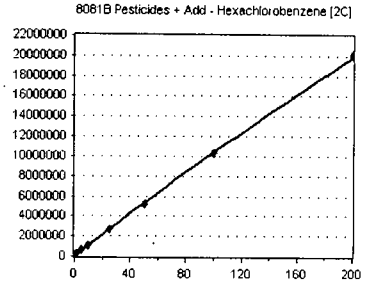
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Hexachlorobenzene [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

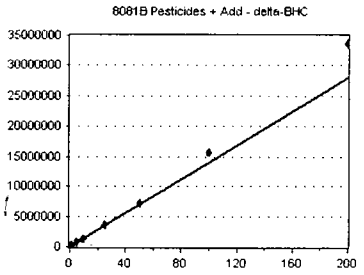


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	78616	157232.000	6.53
0D10031-CALB	1	145117	145117.000	6.53
0D10031-CALC	2	248384	124192.000	6.53
0D10031-CALD	5	553413	110682.600	6.53
0D10031-CALE	10	1101770	110177.000	6.53
0D10031-CALF	25	2741174	109647.000	6.53
0D10031-CALG	50	5176901	103538.000	6.53
0D10031-CALH	100	1.034226E+07	103422.600	6.53
0D10031-CALI	200	2.010664E+07	100533.200	6.53

AVE RF **118282.400** RF RSD **16.97** AVE RT **6.53**

delta-BHC

Curve Fit: **AVERAGE RF**

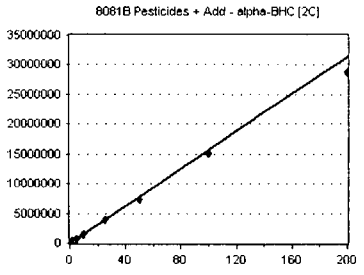


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	66268	132536.000	6.63
0D10031-CAL2	1	123295	123295.000	6.63
0D10031-CAL3	2	258031	129015.500	6.63
0D10031-CAL4	5	669294	133858.800	6.63
0D10031-CAL5	10	1348815	134881.500	6.63
0D10031-CAL6	25	3518783	140751.300	6.62
0D10031-CAL7	50	7200622	144012.400	6.62
0D10031-CAL8	100	1.565439E+07	156543.900	6.62
0D10031-CAL9	200	3.368315E+07	168415.800	6.62

AVE RF **140367.800** RF RSD **10.13** AVE RT **6.63**

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**

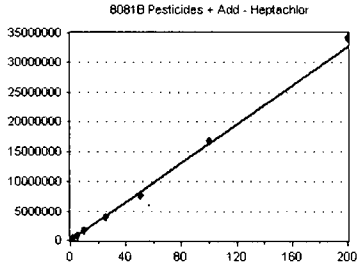


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	87452	174904.000	6.67
0D10031-CAL2	1	160189	160189.000	6.67
0D10031-CAL3	2	318129	159064.500	6.67
0D10031-CAL4	5	809491	161898.200	6.67
0D10031-CAL5	10	1592422	159242.200	6.67
0D10031-CAL6	25	3891920	155676.800	6.67
0D10031-CAL7	50	7382419	147648.400	6.67
0D10031-CAL8	100	1.505405E+07	150540.500	6.67
0D10031-CAL9	200	2.871933E+07	143596.700	6.67

AVE RF **156973.400** RF RSD **5.85** AVE RT **6.67**

Heptachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	88422	176844.000	6.81
0D10031-CAL2	1	162313	162313.000	6.81
0D10031-CAL3	2	311735	155867.500	6.81
0D10031-CAL4	5	799546	159909.200	6.81
0D10031-CAL5	10	1629185	162918.500	6.81
0D10031-CAL6	25	3984158	159366.300	6.81
0D10031-CAL7	50	7786801	155736.000	6.81
0D10031-CAL8	100	1.693212E+07	169321.200	6.81
0D10031-CAL9	200	3.429158E+07	171457.900	6.81

AVE RF **163748.200** RF RSD **4.45** AVE RT **6.81**

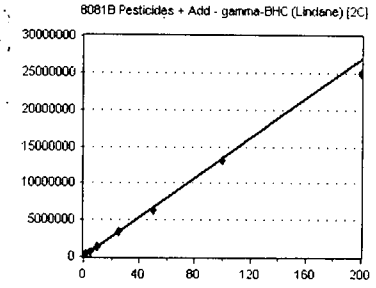
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**

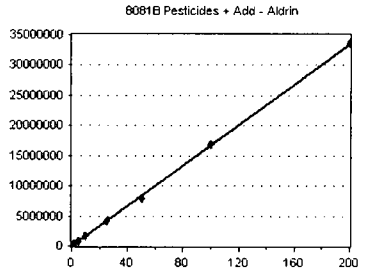


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	75918	151836.000	6.99
0D10031-CAL2	1	137359	137359.000	6.99
0D10031-CAL3	2	271046	135523.000	6.99
0D10031-CAL4	5	673024	134604.800	6.99
0D10031-CAL5	10	1349252	134925.200	6.99
0D10031-CAL6	25	3362986	134519.400	6.99
0D10031-CAL7	50	6395054	127901.100	6.99
0D10031-CAL8	100	1.311753E+07	131175.300	6.99
0D10031-CAL9	200	2.493691E+07	124684.500	7.00

AVE RF **134725.400** RF RSD **5.63** AVE RT **6.99**

Aldrin

Curve Fit: **AVERAGE RF**

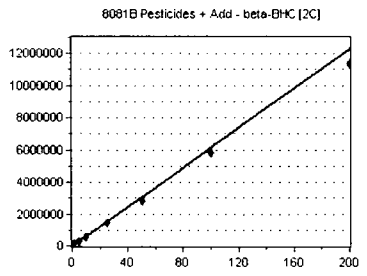


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	92070	184140.000	7.05
0D10031-CAL2	1	165393	165393.000	7.05
0D10031-CAL3	2	330949	165474.500	7.05
0D10031-CAL4	5	838045	167609.000	7.05
0D10031-CAL5	10	1665359	166535.900	7.05
0D10031-CAL6	25	4119405	164776.200	7.05
0D10031-CAL7	50	7862388	157247.800	7.05
0D10031-CAL8	100	1.687464E+07	168746.400	7.05
0D10031-CAL9	200	3.376914E+07	168845.700	7.05

AVE RF **167640.900** RF RSD **4.23** AVE RT **7.05**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

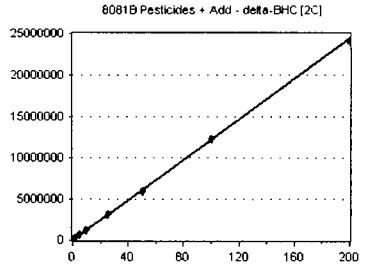


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	37170	74340.000	7.06
0D10031-CAL2	1	66254	66254.000	7.06
0D10031-CAL3	2	127912	63956.000	7.06
0D10031-CAL4	5	302941	60588.200	7.06
0D10031-CAL5	10	583118	58311.800	7.06
0D10031-CAL6	25	1441819	57672.760	7.06
0D10031-CAL7	50	2819965	56399.300	7.06
0D10031-CAL8	100	5838273	58382.730	7.06
0D10031-CAL9	200	1.136866E+07	56843.300	7.06

AVE RF **61416.450** RF RSD **9.57** AVE RT **7.06**

delta-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	66365	132730.000	7.32
0D10031-CAL2	1	118368	118368.000	7.32
0D10031-CAL3	2	234036	117018.000	7.32
0D10031-CAL4	5	620859	124171.800	7.32
0D10031-CAL5	10	1223432	122343.200	7.32
0D10031-CAL6	25	3102871	124114.800	7.32
0D10031-CAL7	50	5907599	118152.000	7.32
0D10031-CAL8	100	1.23279E+07	123279.000	7.32
0D10031-CAL9	200	2.398912E+07	119945.600	7.32

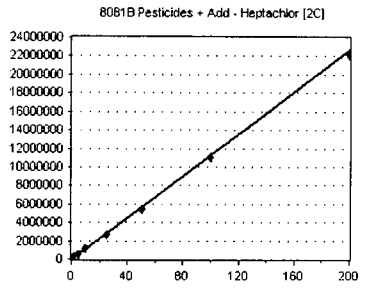
AVE RF **122235.800** RF RSD **3.91** AVE RT **7.32**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Heptachlor [2C]

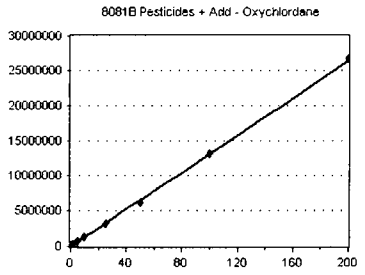


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	63633	127266.000	7.37
0D10031-CAL2	1	116127	116127.000	7.37
0D10031-CAL3	2	223319	111659.500	7.37
0D10031-CAL4	5	564693	112938.600	7.37
0D10031-CAL5	10	1105625	110562.500	7.37
0D10031-CAL6	25	2769954	110798.200	7.37
0D10031-CAL7	50	5432137	108642.700	7.37
0D10031-CAL8	100	1.099804E+07	109980.400	7.37
0D10031-CAL9	200	2.216973E+07	110848.600	7.37

AVE RF **113202.600** RF RSD **5.02** AVE RT **7.37**

Oxychlordane

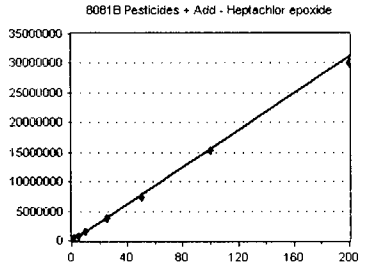


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	87083	174166.000	7.45
0D10031-CALB	1	167657	167657.000	7.45
0D10031-CALC	2	296003	148001.500	7.45
0D10031-CALD	5	646772	129354.400	7.45
0D10031-CALE	10	1300026	130002.600	7.45
0D10031-CALF	25	3280717	131228.700	7.45
0D10031-CALG	50	6240780	124815.600	7.45
0D10031-CALH	100	1.306324E+07	130632.400	7.45
0D10031-CALI	200	2.669499E+07	133475.000	7.45

AVE RF **141037.000** RF RSD **12.87** AVE RT **7.45**

Heptachlor epoxide

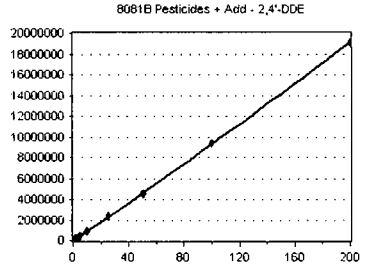


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	91327	182654.000	7.52
0D10031-CAL2	1	160396	160396.000	7.52
0D10031-CAL3	2	311852	155926.000	7.52
0D10031-CAL4	5	780587	156117.400	7.52
0D10031-CAL5	10	1525229	152522.900	7.52
0D10031-CAL6	25	3754002	150160.100	7.52
0D10031-CAL7	50	7294406	145888.100	7.52
0D10031-CAL8	100	1.538196E+07	153819.600	7.52
0D10031-CAL9	200	2.99929E+07	149964.500	7.52

AVE RF **156383.200** RF RSD **6.85** AVE RT **7.52**

2,4'-DDE



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	59883	119766.000	7.52
0D10031-CALB	1	114378	114378.000	7.52
0D10031-CALC	2	197703	98851.500	7.52
0D10031-CALD	5	448996	89799.200	7.52
0D10031-CALE	10	889087	88908.700	7.52
0D10031-CALF	25	2370241	94809.640	7.52
0D10031-CALG	50	4518917	90378.340	7.52
0D10031-CALH	100	9420136	94201.360	7.52
0D10031-CALI	200	1.911046E+07	95552.300	7.52

AVE RF **98516.120** RF RSD **11.23** AVE RT **7.52**

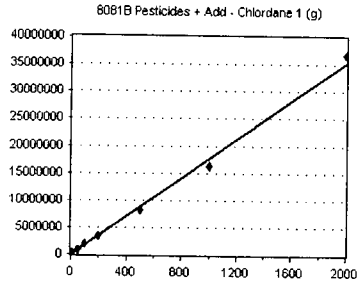
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

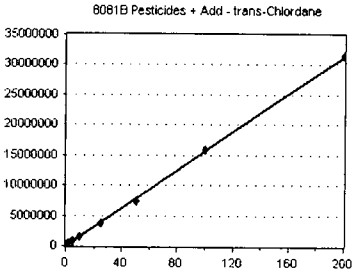


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	181927	18192.700	7.62
0D10031-CALK	50	860072	17201.440	7.62
0D10031-CALL	100	1921243	19212.430	7.61
0D10031-CALM	200	3546473	17732.370	7.61
0D10031-CALN	500	8257015	16514.030	7.61
0D10031-CALO	1000	1.629781E+07	16297.810	7.61
0D10031-CALP	2000	3.680514E+07	18402.570	7.61

AVE RF **17650.480** RF RSD **5.96** AVE RT **7.61**

trans-Chlordane

Curve Fit: **AVERAGE RF**

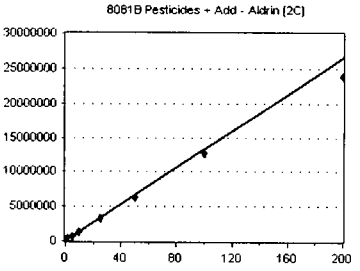


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	87797	175594.000	7.62
0D10031-CAL2	1	160412	160412.000	7.62
0D10031-CAL3	2	308851	154425.500	7.62
0D10031-CAL4	5	779273	155854.600	7.62
0D10031-CAL5	10	1502883	150288.300	7.62
0D10031-CAL6	25	3815437	152617.500	7.62
0D10031-CAL7	50	7465806	149316.100	7.62
0D10031-CAL8	100	1.593866E+07	159386.600	7.61
0D10031-CAL9	200	3.166632E+07	158331.600	7.62

AVE RF **157358.500** RF RSD **5.00** AVE RT **7.62**

Aldrin [2C]

Curve Fit: **AVERAGE RF**

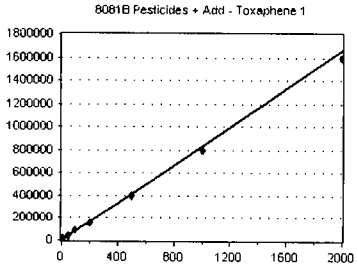


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	76126	152252.000	7.64
0D10031-CAL2	1	136778	136778.000	7.64
0D10031-CAL3	2	268918	134459.000	7.64
0D10031-CAL4	5	699880	139976.000	7.64
0D10031-CAL5	10	1316403	131640.300	7.64
0D10031-CAL6	25	3247513	129900.500	7.64
0D10031-CAL7	50	6276155	125523.100	7.64
0D10031-CAL8	100	1.262626E+07	126262.600	7.64
0D10031-CAL9	200	2.385577E+07	119278.900	7.64

AVE RF **132896.700** RF RSD **7.22** AVE RT **7.64**

Toxaphene 1

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	9912	991.200	7.70
0D10031-CALR	50	41998	839.960	7.69
0D10031-CALS	100	83308	833.080	7.69
0D10031-CALT	200	153469	767.345	7.69
0D10031-CALU	500	400599	801.198	7.69
0D10031-CALV	1000	793856	793.856	7.68
0D10031-CALW	2000	1600533	800.266	7.68

AVE RF **832.415** RF RSD **8.91** AVE RT **7.69**

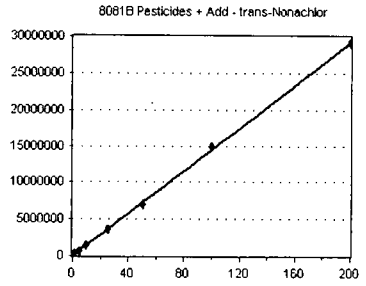
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

trans-Nonachlor

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

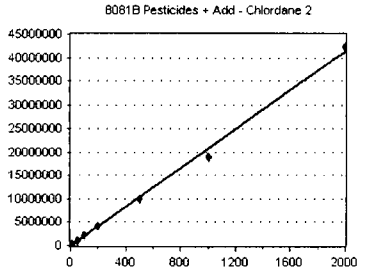


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	97265	194530.000	7.71
0D10031-CALB	1	189735	189735.000	7.71
0D10031-CALC	2	319860	159930.000	7.71
0D10031-CALD	5	722033	144406.600	7.71
0D10031-CALE	10	1431403	143140.300	7.71
0D10031-CALF	25	3612570	144502.800	7.70
0D10031-CALG	50	6909845	138196.900	7.70
0D10031-CALH	100	1.484191E+07	148419.100	7.70
0D10031-CALI	200	2.924029E+07	146201.500	7.70

AVE RF **156562.500** RF RSD **13.43** AVE RT **7.70**

Chlordane 2

Curve Fit: **AVERAGE RF**

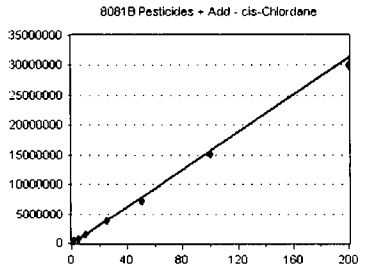


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	224425	22442.500	7.71
0D10031-CALK	50	1020612	20412.240	7.71
0D10031-CALL	100	2178319	21783.190	7.71
0D10031-CALM	200	4127220	20636.100	7.71
0D10031-CALN	500	9851749	19703.500	7.71
0D10031-CALO	1000	1.892345E+07	18923.450	7.71
0D10031-CALP	2000	4.230672E+07	21153.360	7.71

AVE RF **20722.050** RF RSD **5.79** AVE RT **7.71**

cis-Chlordane

Curve Fit: **AVERAGE RF**

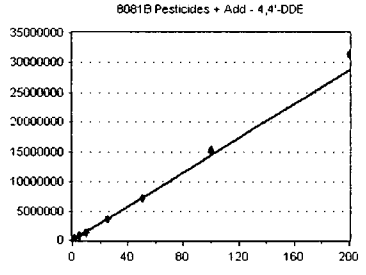


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	98925	197850.000	7.71
0D10031-CAL2	1	162363	162363.000	7.72
0D10031-CAL3	2	309955	154977.500	7.71
0D10031-CAL4	5	784009	156801.800	7.71
0D10031-CAL5	10	1485434	148543.400	7.71
0D10031-CAL6	25	3703571	148142.800	7.71
0D10031-CAL7	50	7133255	142665.100	7.71
0D10031-CAL8	100	1.510384E+07	151038.400	7.71
0D10031-CAL9	200	3.006937E+07	150346.800	7.71

AVE RF **156969.900** RF RSD **10.41** AVE RT **7.71**

4,4'-DDE

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	76638	153276.000	7.77
0D10031-CAL2	1	132356	132356.000	7.78
0D10031-CAL3	2	264579	132289.500	7.77
0D10031-CAL4	5	712814	142562.800	7.77
0D10031-CAL5	10	1382476	138247.600	7.77
0D10031-CAL6	25	3675424	147017.000	7.77
0D10031-CAL7	50	7150986	143019.700	7.77
0D10031-CAL8	100	1.529286E+07	152928.600	7.77
0D10031-CAL9	200	3.131499E+07	156575.000	7.77

AVE RF **144252.500** RF RSD **6.21** AVE RT **7.77**

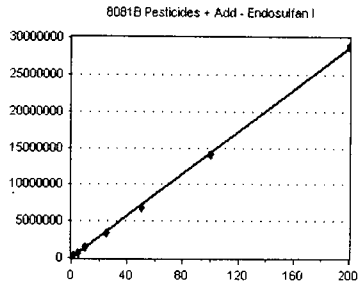
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endosulfan I

Curve Fit: **AVERAGE RF**

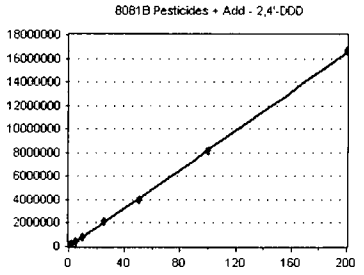


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	82435	164870.000	7.82
0D10031-CAL2	1	145356	145356.000	7.82
0D10031-CAL3	2	284291	142145.500	7.82
0D10031-CAL4	5	712441	142488.200	7.82
0D10031-CAL5	10	1386208	138620.800	7.82
0D10031-CAL6	25	3466454	138658.200	7.81
0D10031-CAL7	50	6731758	134635.200	7.81
0D10031-CAL8	100	1.407242E+07	140724.200	7.81
0D10031-CAL9	200	2.883958E+07	144197.900	7.81

AVE RF **143521.800** RF RSD **6.02** AVE RT **7.81**

2,4'-DDD

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

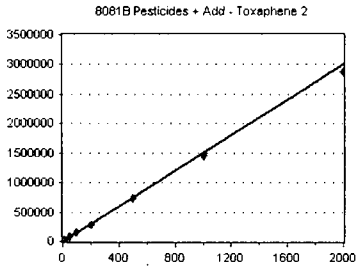


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	56544	113088.000	7.90
0D10031-CALB	1	106028	106028.000	7.90
0D10031-CALC	2	187358	93679.000	7.90
0D10031-CALD	5	402442	80488.400	7.90
0D10031-CALE	10	809760	80976.000	7.90
0D10031-CALF	25	2101228	84049.120	7.90
0D10031-CALG	50	4001953	80039.060	7.90
0D10031-CALH	100	8200834	82008.340	7.90
0D10031-CALI	200	1.6682E+07	83410.000	7.90

AVE RF **89307.320** RF RSD **13.79** AVE RT **7.90**

Toxaphene 2

Curve Fit: **AVERAGE RF**

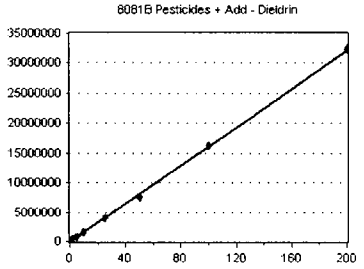


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	15559	1555.900	7.99
0D10031-CALR	50	82518	1650.360	7.99
0D10031-CALS	100	156502	1565.020	7.99
0D10031-CALT	200	286085	1430.425	7.98
0D10031-CALU	500	728788	1457.576	7.98
0D10031-CALV	1000	1453876	1453.876	7.98
0D10031-CALW	2000	2869354	1434.677	7.98

AVE RF **1506.833** RF RSD **5.60** AVE RT **7.98**

Dieldrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	86632	173264.000	7.99
0D10031-CAL2	1	160736	160736.000	7.99
0D10031-CAL3	2	311986	155993.000	7.99
0D10031-CAL4	5	805257	161051.400	7.99
0D10031-CAL5	10	1588078	158807.800	7.99
0D10031-CAL6	25	3986579	159463.200	7.99
0D10031-CAL7	50	7608328	152166.600	7.99
0D10031-CAL8	100	1.630012E+07	163001.200	7.99
0D10031-CAL9	200	3.238647E+07	161932.300	7.99

AVE RF **160712.800** RF RSD **3.58** AVE RT **7.99**

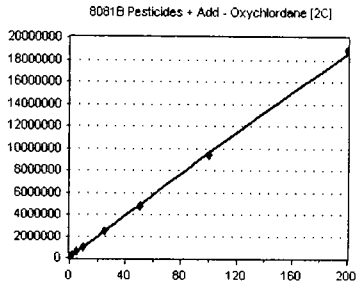
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Oxychlordane [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

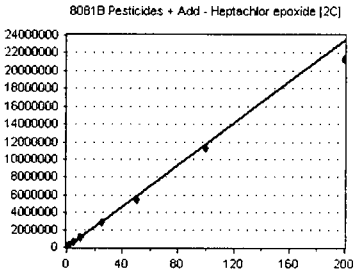


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	67961	135922.000	8.01
0D10031-CALB	1	131841	131841.000	8.01
0D10031-CALC	2	226120	113060.000	8.01
0D10031-CALD	5	490301	98060.200	8.01
0D10031-CALE	10	992994	99299.400	8.01
0D10031-CALF	25	2462430	98497.200	8.01
0D10031-CALG	50	4745169	94903.380	8.01
0D10031-CALH	100	9423897	94238.970	8.01
0D10031-CALI	200	1.888033E+07	94401.650	8.01

AVE RF **106691.500** RF RSD **15.43** AVE RT **8.01**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

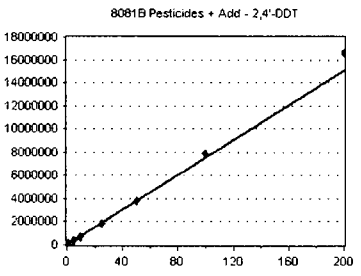


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	69830	139660.000	8.08
0D10031-CAL2	1	122009	122009.000	8.08
0D10031-CAL3	2	241069	120534.500	8.08
0D10031-CAL4	5	590771	118154.200	8.08
0D10031-CAL5	10	1175438	117543.800	8.08
0D10031-CAL6	25	2836226	113449.000	8.08
0D10031-CAL7	50	5446885	108937.700	8.08
0D10031-CAL8	100	1.125874E+07	112587.400	8.08
0D10031-CAL9	200	2.127088E+07	106354.400	8.08

AVE RF **117692.200** RF RSD **8.27** AVE RT **8.08**

2,4'-DDT

Curve Fit: **AVERAGE RF**

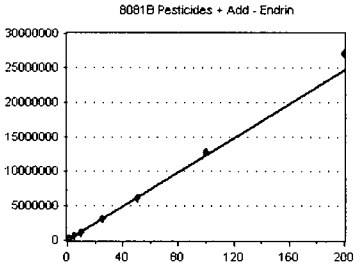


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	41657	83314.000	8.08
0D10031-CALB	1	77977	77977.000	8.08
0D10031-CALC	2	133977	66988.500	8.08
0D10031-CALD	5	343961	68792.200	8.08
0D10031-CALE	10	665398	66539.800	8.08
0D10031-CALF	25	1890884	75635.360	8.08
0D10031-CALG	50	3806076	76121.520	8.08
0D10031-CALH	100	7906836	79068.360	8.08
0D10031-CALI	200	1.661567E+07	83078.350	8.08

AVE RF **75279.450** RF RSD **8.60** AVE RT **8.08**

Endrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	63369	126738.000	8.16
0D10031-CAL2	1	118800	118800.000	8.16
0D10031-CAL3	2	233183	116591.500	8.16
0D10031-CAL4	5	600774	120154.800	8.16
0D10031-CAL5	10	1200412	120041.200	8.16
0D10031-CAL6	25	3047888	121915.500	8.16
0D10031-CAL7	50	6088856	121777.100	8.15
0D10031-CAL8	100	1.28781E+07	128781.000	8.15
0D10031-CAL9	200	2.709374E+07	135468.700	8.15

AVE RF **123363.100** RF RSD **4.79** AVE RT **8.15**

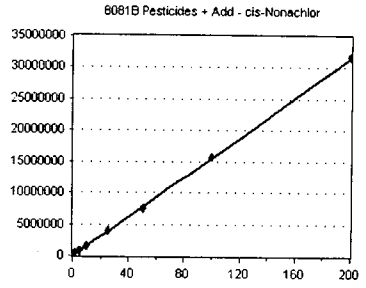
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

cis-Nonachlor

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

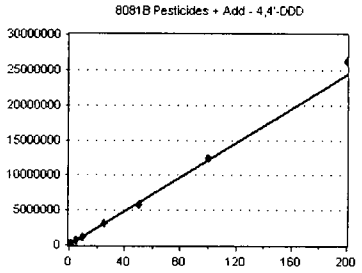


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	105931	211862.000	8.18
0D10031-CALB	1	197292	197292.000	8.18
0D10031-CALC	2	342161	171080.500	8.18
0D10031-CALD	5	779953	155990.600	8.18
0D10031-CALE	10	1524562	152456.200	8.18
0D10031-CALF	25	3931964	157278.600	8.18
0D10031-CALG	50	7558026	151160.500	8.18
0D10031-CALH	100	1.561631E+07	156163.100	8.18
0D10031-CALI	200	3.180214E+07	159010.700	8.18

AVE RF **168032.700** RF RSD **12.96** AVE RT **8.18**

4,4'-DDD

Curve Fit: **AVERAGE RF**

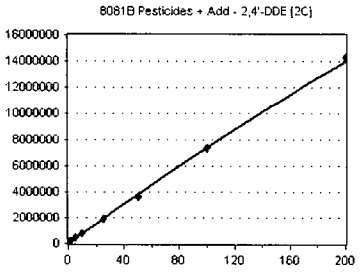


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	67675	135350.000	8.20
0D10031-CAL2	1	118335	118335.000	8.20
0D10031-CAL3	2	229102	114551.000	8.20
0D10031-CAL4	5	580403	116080.600	8.20
0D10031-CAL5	10	1143858	114385.800	8.20
0D10031-CAL6	25	3056605	122264.200	8.20
0D10031-CAL7	50	5813915	116278.300	8.20
0D10031-CAL8	100	1.242879E+07	124287.900	8.20
0D10031-CAL9	200	2.622238E+07	131111.900	8.20

AVE RF **121405.000** RF RSD **6.23** AVE RT **8.20**

2,4'-DDE [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

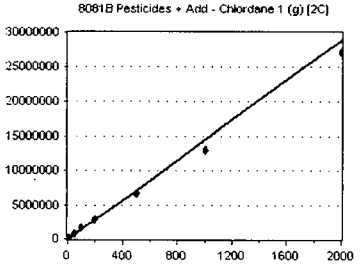


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	54754	109508.000	8.22
0D10031-CALB	1	102014	102014.000	8.22
0D10031-CALC	2	175821	87910.500	8.22
0D10031-CALD	5	395444	79088.800	8.22
0D10031-CALE	10	776105	77610.500	8.22
0D10031-CALF	25	1938260	77530.400	8.22
0D10031-CALG	50	3659885	73197.700	8.22
0D10031-CALH	100	7319258	73192.580	8.21
0D10031-CALI	200	1.426314E+07	71315.700	8.22

AVE RF **83485.350** RF RSD **16.34** AVE RT **8.22**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	156594	15659.400	8.22
0D10031-CALK	50	734996	14699.920	8.22
0D10031-CALL	100	1636710	16367.100	8.22
0D10031-CALM	200	2904795	14523.970	8.22
0D10031-CALN	500	6758715	13517.430	8.22
0D10031-CALO	1000	1.293987E+07	12939.870	8.22
0D10031-CALP	2000	2.712576E+07	13562.880	8.22

AVE RF **14467.230** RF RSD **8.53** AVE RT **8.22**

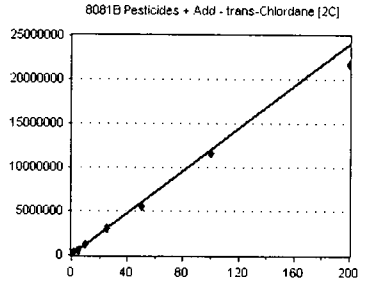
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

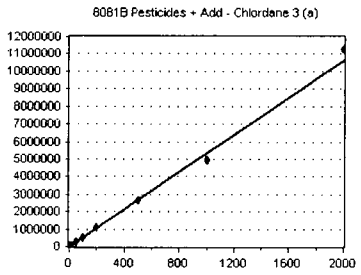


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	71156	142312.000	8.22
0D10031-CAL2	1	126502	126502.000	8.22
0D10031-CAL3	2	240690	120345.000	8.22
0D10031-CAL4	5	605591	121118.200	8.22
0D10031-CAL5	10	1202264	120226.400	8.22
0D10031-CAL6	25	2978658	119146.300	8.22
0D10031-CAL7	50	5551909	111038.200	8.22
0D10031-CAL8	100	1.161902E+07	116190.200	8.22
0D10031-CAL9	200	2.170917E+07	108545.900	8.22

AVE RF **120602.700** RF RSD **8.11** AVE RT **8.22**

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

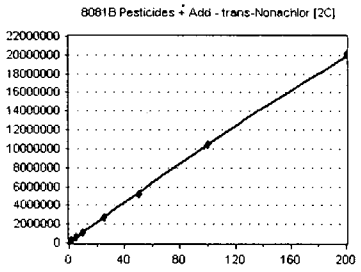


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	55530	5553.000	8.27
0D10031-CALK	50	252424	5048.480	8.27
0D10031-CALL	100	525276	5252.760	8.27
0D10031-CALM	200	1111336	5556.680	8.27
0D10031-CALN	500	2640047	5280.094	8.26
0D10031-CALO	1000	4918547	4918.547	8.26
0D10031-CALP	2000	1.127092E+07	5635.460	8.26

AVE RF **5320.717** RF RSD **5.15** AVE RT **8.26**

trans-Nonachlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

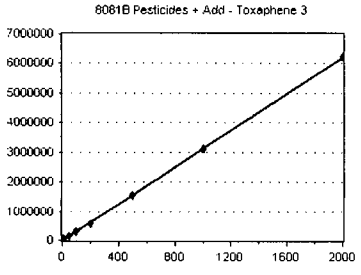


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	76561	153122.000	8.29
0D10031-CALB	1	145443	145443.000	8.29
0D10031-CALC	2	251420	125710.000	8.29
0D10031-CALD	5	557194	111438.800	8.29
0D10031-CALE	10	1088724	108872.400	8.29
0D10031-CALF	25	2768485	110739.400	8.29
0D10031-CALG	50	5248360	104967.200	8.29
0D10031-CALH	100	1.046111E+07	104611.100	8.29
0D10031-CALI	200	2.004439E+07	100222.000	8.29

AVE RF **118347.300** RF RSD **16.06** AVE RT **8.29**

Toxaphene 3

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	32449	3244.900	8.30
0D10031-CALR	50	158918	3178.360	8.30
0D10031-CALS	100	311689	3116.890	8.30
0D10031-CALT	200	586224	2931.120	8.30
0D10031-CALU	500	1540725	3081.450	8.30
0D10031-CALV	1000	3092888	3092.888	8.30
0D10031-CALW	2000	6253933	3126.967	8.30

AVE RF **3110.368** RF RSD **3.11** AVE RT **8.30**

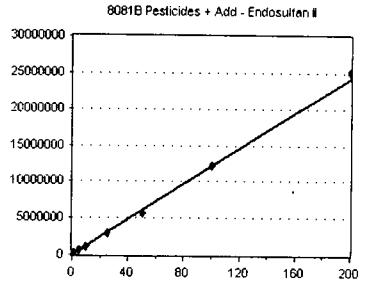
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endosulfan II

Curve Fit: **AVERAGE RF**

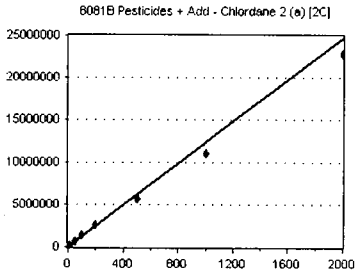


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	67076	134152.000	8.32
0D10031-CAL2	1	119697	119697.000	8.32
0D10031-CAL3	2	233441	116720.500	8.32
0D10031-CAL4	5	589436	117887.200	8.31
0D10031-CAL5	10	1207633	120763.300	8.32
0D10031-CAL6	25	2966130	118645.200	8.31
0D10031-CAL7	50	5720662	114413.200	8.31
0D10031-CAL8	100	1.214729E+07	121472.900	8.31
0D10031-CAL9	200	2.514077E+07	125703.900	8.31

AVE RF **121050.600** RF RSD **4.83** AVE RT **8.31**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**

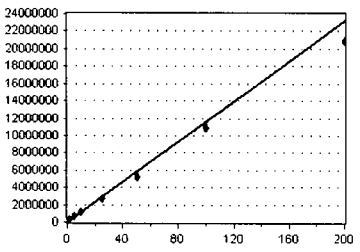


Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	138950	13895.000	8.33
0D10031-CALK	50	633044	12660.880	8.33
0D10031-CALL	100	1360439	13604.390	8.33
0D10031-CALM	200	2508298	12541.490	8.33
0D10031-CALN	500	5655525	11311.050	8.33
0D10031-CALO	1000	1.110162E+07	11101.620	8.33
0D10031-CALP	2000	2.283037E+07	11415.180	8.33

AVE RF **12361.370** RF RSD **9.11** AVE RT **8.33**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**

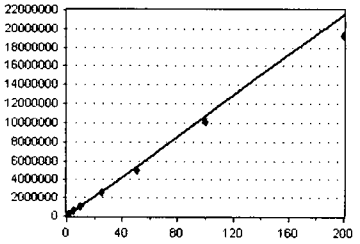


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	70102	140204.000	8.33
0D10031-CAL2	1	124533	124533.000	8.33
0D10031-CAL3	2	235252	117626.000	8.33
0D10031-CAL4	5	585259	117051.800	8.33
0D10031-CAL5	10	1131819	113181.900	8.33
0D10031-CAL6	25	2773817	110952.700	8.33
0D10031-CAL7	50	5236394	104727.900	8.33
0D10031-CAL8	100	1.096013E+07	109601.300	8.33
0D10031-CAL9	200	2.09135E+07	104567.500	8.33

AVE RF **115827.300** RF RSD **9.62** AVE RT **8.33**

Endosulfan I [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	65843	131686.000	8.38
0D10031-CAL2	1	110124	110124.000	8.38
0D10031-CAL3	2	219822	109911.000	8.38
0D10031-CAL4	5	546125	109225.000	8.38
0D10031-CAL5	10	1056492	105649.200	8.38
0D10031-CAL6	25	2611533	104461.300	8.38
0D10031-CAL7	50	4951225	99024.500	8.38
0D10031-CAL8	100	1.016173E+07	101617.300	8.38
0D10031-CAL9	200	1.922892E+07	96144.600	8.38

AVE RF **107538.100** RF RSD **9.58** AVE RT **8.38**

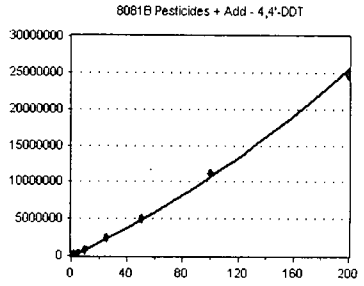
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

4,4'-DDT

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

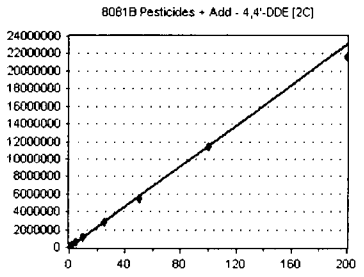


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	37407	74814.000	8.40
0D10031-CAL2	1	73450	73450.000	8.40
0D10031-CAL3	2	145442	72721.000	8.40
0D10031-CAL4	5	402575	80515.000	8.40
0D10031-CAL5	10	875483	87548.300	8.40
0D10031-CAL6	25	2456263	98250.520	8.40
0D10031-CAL7	50	5090784	101815.700	8.40
0D10031-CAL8	100	1.111867E+07	111186.700	8.40
0D10031-CAL9	200	2.472306E+07	123615.300	8.40

AVE RF **91546.280** RF RSD **19.93** AVE RT **8.40**

4,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

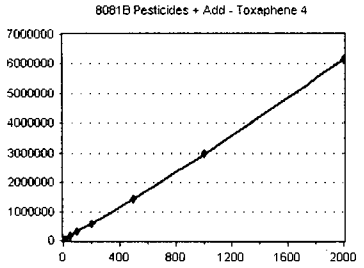


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	64334	128668.000	8.44
0D10031-CAL2	1	115967	115967.000	8.44
0D10031-CAL3	2	230910	115455.000	8.44
0D10031-CAL4	5	584778	116955.600	8.44
0D10031-CAL5	10	1137288	113728.800	8.44
0D10031-CAL6	25	2877432	115097.300	8.44
0D10031-CAL7	50	5427651	108553.000	8.44
0D10031-CAL8	100	1.136763E+07	113676.300	8.44
0D10031-CAL9	200	2.165285E+07	108264.300	8.44

AVE RF **115151.700** RF RSD **5.15** AVE RT **8.44**

Toxaphene 4

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

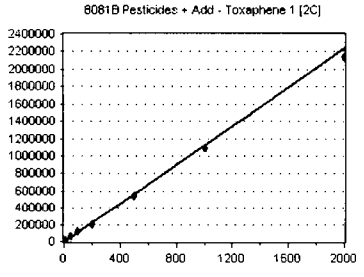


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	44818	4481.800	8.54
0D10031-CALR	50	158276	3165.520	8.54
0D10031-CALS	100	303785	3037.850	8.54
0D10031-CALT	200	565257	2826.285	8.54
0D10031-CALU	500	1443047	2886.094	8.54
0D10031-CALV	1000	2982259	2982.259	8.54
0D10031-CALW	2000	6177768	3088.884	8.54

AVE RF **3209.813** RF RSD **17.84** AVE RT **8.54**

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	11439	1143.900	8.56
0D10031-CALR	50	61319	1226.380	8.56
0D10031-CALS	100	116776	1167.760	8.56
0D10031-CALT	200	208550	1042.750	8.56
0D10031-CALU	500	549025	1098.050	8.56
0D10031-CALV	1000	1091279	1091.279	8.56
0D10031-CALW	2000	2139599	1069.800	8.56

AVE RF **1119.988** RF RSD **5.64** AVE RT **8.56**

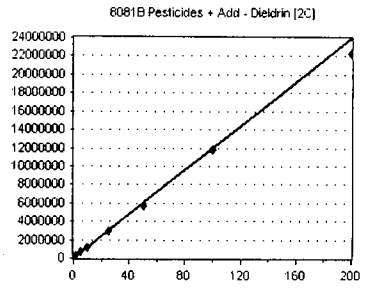
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Dieldrin [2C]

Curve Fit: **AVERAGE RF**

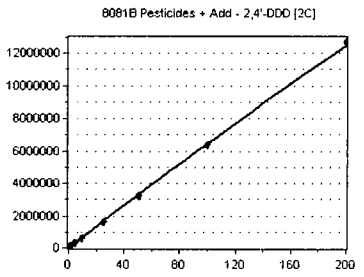


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	68980	137960.000	8.58
0D10031-CAL2	1	120867	120867.000	8.59
0D10031-CAL3	2	236771	118385.500	8.59
0D10031-CAL4	5	602273	120454.600	8.58
0D10031-CAL5	10	1196698	119669.800	8.59
0D10031-CAL6	25	2919821	116792.800	8.59
0D10031-CAL7	50	5672261	113445.200	8.58
0D10031-CAL8	100	1.185345E+07	118534.500	8.58
0D10031-CAL9	200	2.231577E+07	111578.900	8.58

AVE RF **119743.100** RF RSD **6.28** AVE RT **8.58**

2,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

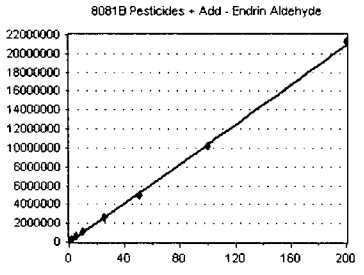


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	50583	101166.000	8.59
0D10031-CALB	1	93331	93331.000	8.59
0D10031-CALC	2	158108	79054.000	8.59
0D10031-CALD	5	342154	68430.800	8.59
0D10031-CALE	10	665503	66550.300	8.59
0D10031-CALF	25	1648579	65943.160	8.59
0D10031-CALG	50	3205195	64103.900	8.59
0D10031-CALH	100	6389450	63894.500	8.59
0D10031-CALI	200	1.270525E+07	63526.250	8.59

AVE RF **73999.990** RF RSD **19.10** AVE RT **8.59**

Endrin Aldehyde

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

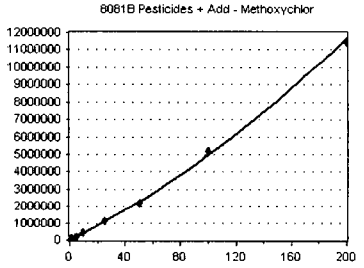


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	73553	147106.000	8.61
0D10031-CAL2	1	127313	127313.000	8.61
0D10031-CAL3	2	237806	118903.000	8.61
0D10031-CAL4	5	545702	109140.400	8.61
0D10031-CAL5	10	1043139	104313.900	8.61
0D10031-CAL6	25	2573122	102924.900	8.61
0D10031-CAL7	50	4966378	99327.560	8.61
0D10031-CAL8	100	1.021396E+07	102139.600	8.61
0D10031-CAL9	200	2.13247E+07	106623.500	8.61

AVE RF **113088.000** RF RSD **13.77** AVE RT **8.61**

Methoxychlor

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	19411	38822.000	8.74
0D10031-CAL2	1	39011	39011.000	8.74
0D10031-CAL3	2	74306	37153.000	8.74
0D10031-CAL4	5	204727	40945.400	8.74
0D10031-CAL5	10	427742	42774.200	8.74
0D10031-CAL6	25	1114647	44585.880	8.74
0D10031-CAL7	50	2212679	44253.580	8.74
0D10031-CAL8	100	5195602	51956.020	8.74
0D10031-CAL9	200	1.146302E+07	57315.100	8.74

AVE RF **44090.690** RF RSD **15.01** AVE RT **8.74**

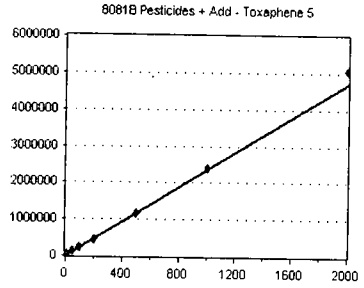
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Toxaphene 5

Curve Fit: **AVERAGE RF**

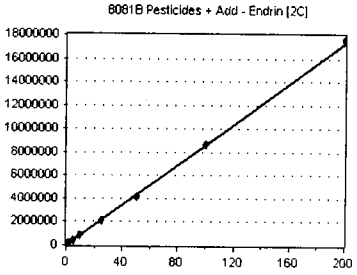


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	23487	2348.700	8.78
0D10031-CALR	50	119137	2382.740	8.78
0D10031-CALS	100	229620	2296.200	8.78
0D10031-CALT	200	439278	2196.390	8.77
0D10031-CALU	500	1171966	2343.932	8.77
0D10031-CALV	1000	2385429	2385.429	8.77
0D10031-CALW	2000	5064912	2532.456	8.77

AVE RF **2355.121** RF RSD **4.31** AVE RT **8.77**

Endrin [2C]

Curve Fit: **AVERAGE RF**

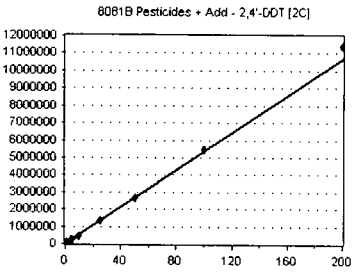


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	47079	94158.000	8.81
0D10031-CAL2	1	86799	86799.000	8.82
0D10031-CAL3	2	167127	83563.500	8.81
0D10031-CAL4	5	419756	83951.200	8.81
0D10031-CAL5	10	862016	86201.600	8.82
0D10031-CAL6	25	2128761	85150.440	8.81
0D10031-CAL7	50	4168787	83375.740	8.81
0D10031-CAL8	100	8690942	86909.420	8.81
0D10031-CAL9	200	1.758826E+07	87941.300	8.81

AVE RF **86450.020** RF RSD **3.83** AVE RT **8.81**

2,4'-DDT [2C]

Curve Fit: **AVERAGE RF**

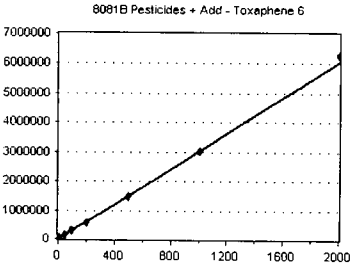


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	32434	64868.000	8.82
0D10031-CALB	1	56936	56936.000	8.82
0D10031-CALC	2	96604	48302.000	8.82
0D10031-CALD	5	240393	48078.600	8.82
0D10031-CALE	10	472159	47215.900	8.82
0D10031-CALF	25	1331674	53266.960	8.82
0D10031-CALG	50	2644918	52898.360	8.82
0D10031-CALH	100	5426818	54268.180	8.82
0D10031-CALI	200	1.138473E+07	56923.650	8.82

AVE RF **53639.740** RF RSD **10.41** AVE RT **8.82**

Toxaphene 6

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	34168	3416.800	8.84
0D10031-CALR	50	150990	3019.800	8.84
0D10031-CALS	100	291120	2911.200	8.84
0D10031-CALT	200	559171	2795.855	8.84
0D10031-CALU	500	1468060	2936.120	8.84
0D10031-CALV	1000	3017263	3017.263	8.84
0D10031-CALW	2000	6273981	3136.990	8.84

AVE RF **3033.433** RF RSD **6.58** AVE RT **8.84**

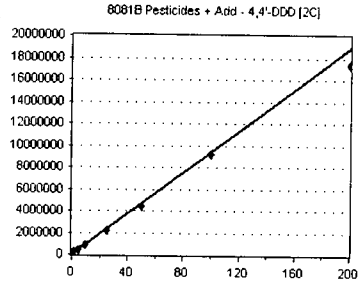
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

4,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

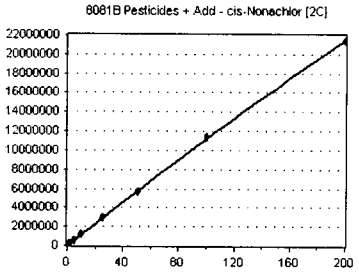


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	58722	117444.000	8.86
0D10031-CAL2	1	101471	101471.000	8.86
0D10031-CAL3	2	184447	92223.500	8.86
0D10031-CAL4	5	466489	93297.800	8.86
0D10031-CAL5	10	889692	88969.200	8.86
0D10031-CAL6	25	2212251	88490.040	8.86
0D10031-CAL7	50	4432731	88654.620	8.86
0D10031-CAL8	100	9158353	91583.530	8.86
0D10031-CAL9	200	1.743273E+07	87163.650	8.86

AVE RF **94366.370** RF RSD **10.22** AVE RT **8.86**

cis-Nonachlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

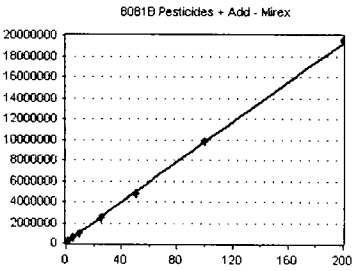


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	83146	166292.000	8.86
0D10031-CALB	1	153334	153334.000	8.86
0D10031-CALC	2	262929	131464.500	8.86
0D10031-CALD	5	594209	118841.800	8.86
0D10031-CALE	10	1133487	113348.700	8.86
0D10031-CALF	25	2939943	117597.700	8.86
0D10031-CALG	50	5676373	113527.500	8.86
0D10031-CALH	100	1.137821E+07	113782.100	8.86
0D10031-CALI	200	2.137295E+07	106864.800	8.86

AVE RF **126117.000** RF RSD **16.23** AVE RT **8.86**

Mirex

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

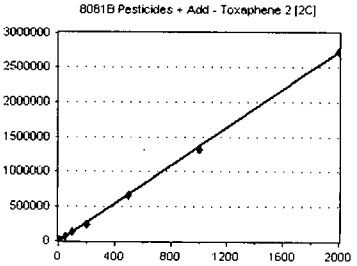


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	82399	164798.000	8.86
0D10031-CALB	1	147950	147950.000	8.86
0D10031-CALC	2	248901	124450.500	8.86
0D10031-CALD	5	521342	104268.400	8.86
0D10031-CALE	10	976519	97651.900	8.86
0D10031-CALF	25	2445934	97837.360	8.86
0D10031-CALG	50	4722341	94446.820	8.86
0D10031-CALH	100	9796794	97967.940	8.86
0D10031-CALI	200	1.960009E+07	98000.450	8.86

AVE RF **114152.400** RF RSD **22.68** AVE RT **8.86**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	14963	1496.300	8.91
0D10031-CALR	50	72536	1450.720	8.91
0D10031-CALS	100	135442	1354.420	8.91
0D10031-CALT	200	248644	1243.220	8.91
0D10031-CALU	500	661072	1322.144	8.91
0D10031-CALV	1000	1317514	1317.514	8.91
0D10031-CALW	2000	2728248	1364.124	8.91

AVE RF **1364.063** RF RSD **6.25** AVE RT **8.91**

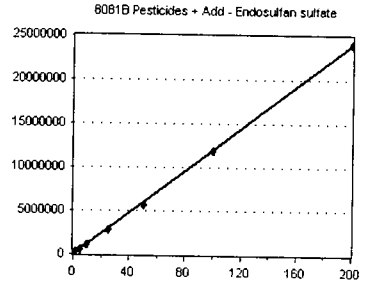
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endosulfan sulfate

Curve Fit: **AVERAGE RF**

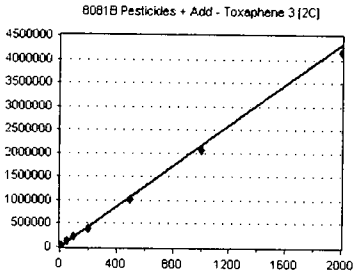


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	72456	144912.000	8.91
0D10031-CAL2	1	126416	126416.000	8.91
0D10031-CAL3	2	233112	116556.000	8.91
0D10031-CAL4	5	580327	116065.400	8.91
0D10031-CAL5	10	1141536	114153.600	8.91
0D10031-CAL6	25	2840981	113639.200	8.91
0D10031-CAL7	50	5681676	113633.500	8.91
0D10031-CAL8	100	1.188256E+07	118825.600	8.91
0D10031-CAL9	200	2.398734E+07	119936.700	8.91

AVE RF **120459.800** RF RSD **8.32** AVE RT **8.91**

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

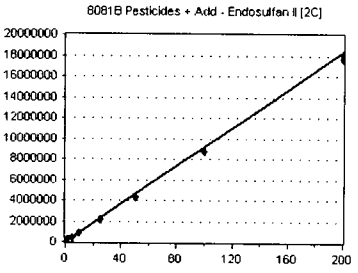


Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	26120	2612.000	8.94
0D10031-CALR	50	114478	2289.560	8.94
0D10031-CALS	100	211094	2110.940	8.94
0D10031-CALT	200	394858	1974.290	8.94
0D10031-CALU	500	1031208	2062.416	8.94
0D10031-CALV	1000	2068991	2068.991	8.94
0D10031-CALW	2000	4148392	2074.196	8.94

AVE RF **2170.342** RF RSD **10.00** AVE RT **8.94**

Endosulfan II [2C]

Curve Fit: **AVERAGE RF**

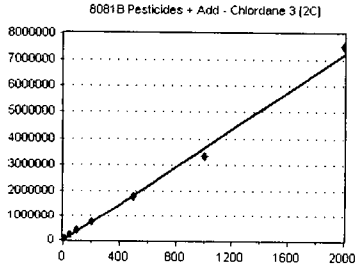


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	55230	110460.000	8.96
0D10031-CAL2	1	95182	95182.000	8.96
0D10031-CAL3	2	182611	91305.500	8.96
0D10031-CAL4	5	453168	90633.600	8.96
0D10031-CAL5	10	876423	87642.300	8.96
0D10031-CAL6	25	2201693	88067.720	8.96
0D10031-CAL7	50	4306868	86137.360	8.96
0D10031-CAL8	100	8759068	87590.680	8.96
0D10031-CAL9	200	1.768812E+07	88440.600	8.96

AVE RF **91717.750** RF RSD **8.21** AVE RT **8.96**

Chlordane 3 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D10031-CALJ	10	51394	5139.400	9.00
0D10031-CALK	50	195537	3910.740	9.00
0D10031-CALL	100	395685	3956.850	9.00
0D10031-CALM	200	745316	3726.580	9.00
0D10031-CALN	500	1759160	3518.320	9.00
0D10031-CALO	1000	3349788	3349.788	9.00
0D10031-CALP	2000	7528954	3764.477	9.00

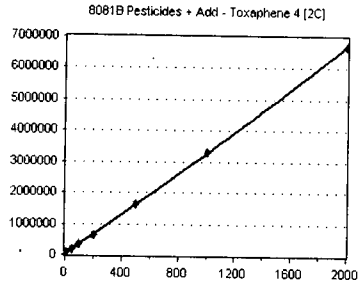
AVE RF **3909.451** RF RSD **14.90** AVE RT **9.00**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041(**

Toxaphene 4 [2C]

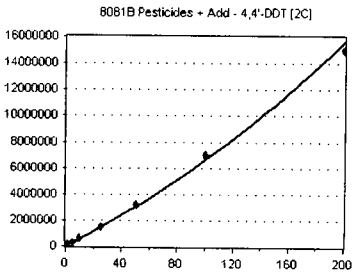


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	62570	6257.000	9.01
0D10031-CALR	50	190413	3808.260	9.01
0D10031-CALS	100	346003	3460.030	9.01
0D10031-CALT	200	639556	3197.780	9.01
0D10031-CALU	500	1630720	3261.440	9.01
0D10031-CALV	1000	3308655	3308.655	9.01
0D10031-CALW	2000	6693759	3346.879	9.01

AVE RF **3805.721** RF RSD **28.89** AVE RT **9.01**

4,4'-DDT [2C]

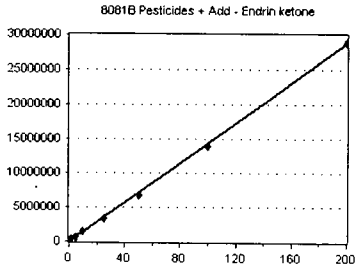


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	24779	49558.000	9.08
0D10031-CAL2	1	49721	49721.000	9.09
0D10031-CAL3	2	89330	44665.000	9.09
0D10031-CAL4	5	260165	52033.000	9.09
0D10031-CAL5	10	578694	57869.400	9.09
0D10031-CAL6	25	1496497	59859.880	9.09
0D10031-CAL7	50	3189186	63783.720	9.08
0D10031-CAL8	100	7015904	70159.040	9.09
0D10031-CAL9	200	1.505876E+07	75293.800	9.08

AVE RF **58104.760** RF RSD **17.60** AVE RT **9.08**

Endrin ketone

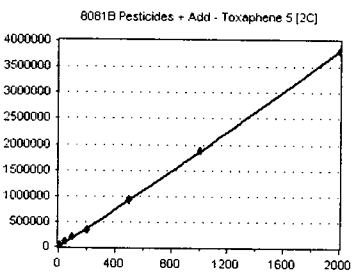


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	83435	166870.000	9.11
0D10031-CAL2	1	152949	152949.000	9.11
0D10031-CAL3	2	285336	142668.000	9.11
0D10031-CAL4	5	688717	137743.400	9.11
0D10031-CAL5	10	1381099	138109.900	9.11
0D10031-CAL6	25	3445975	137839.000	9.11
0D10031-CAL7	50	6843717	136874.300	9.11
0D10031-CAL8	100	1.390394E+07	139039.400	9.11
0D10031-CAL9	200	2.886583E+07	144329.200	9.11

AVE RF **144046.900** RF RSD **6.91** AVE RT **9.11**

Toxaphene 5 [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	23927	2392.700	9.19
0D10031-CALR	50	99407	1988.140	9.19
0D10031-CALS	100	185979	1859.790	9.19
0D10031-CALT	200	355753	1778.765	9.19
0D10031-CALU	500	932303	1864.606	9.19
0D10031-CALV	1000	1879026	1879.026	9.19
0D10031-CALW	2000	3797020	1898.510	9.19

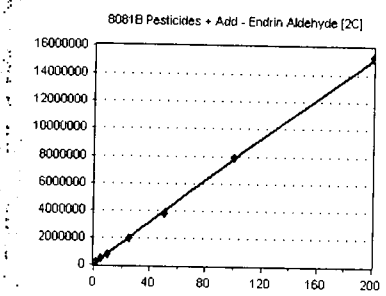
AVE RF **1951.648** RF RSD **10.46** AVE RT **9.19**

Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Endrin Aldehyde [2C]

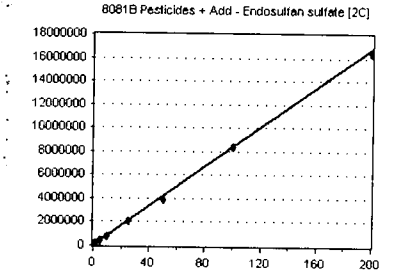


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	58732	117464.000	9.20
0D10031-CAL2	1	100085	100085.000	9.20
0D10031-CAL3	2	191739	95869.500	9.20
0D10031-CAL4	5	424119	84823.800	9.20
0D10031-CAL5	10	811442	81144.200	9.20
0D10031-CAL6	25	1952460	78098.400	9.20
0D10031-CAL7	50	3803916	76078.320	9.20
0D10031-CAL8	100	7859690	78596.900	9.20
0D10031-CAL9	200	1.532543E+07	76627.150	9.20

AVE RF **87643.030** RF RSD **16.09** AVE RT **9.20**

Endosulfan sulfate [2C]

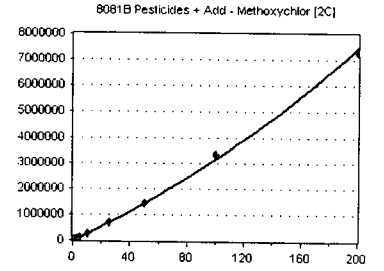


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	50159	100318.000	9.39
0D10031-CAL2	1	88344	88344.000	9.39
0D10031-CAL3	2	166426	83213.000	9.39
0D10031-CAL4	5	407094	81418.800	9.39
0D10031-CAL5	10	796875	79687.500	9.39
0D10031-CAL6	25	2020111	80804.440	9.39
0D10031-CAL7	50	3917488	78349.760	9.39
0D10031-CAL8	100	8368447	83684.470	9.39
0D10031-CAL9	200	1.635617E+07	81780.850	9.39

AVE RF **84177.870** RF RSD **7.95** AVE RT **9.39**

Methoxychlor [2C]

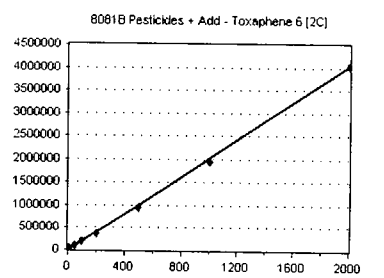


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	11909	23818.000	9.57
0D10031-CAL2	1	24923	24923.000	9.57
0D10031-CAL3	2	46818	23409.000	9.57
0D10031-CAL4	5	127410	25482.000	9.57
0D10031-CAL5	10	269363	26936.300	9.57
0D10031-CAL6	25	689159	27566.360	9.57
0D10031-CAL7	50	1415590	28311.800	9.57
0D10031-CAL8	100	3310270	33102.700	9.57
0D10031-CAL9	200	7310519	36552.590	9.57

AVE RF **27789.080** RF RSD **15.82** AVE RT **9.57**

Toxaphene 6 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0D10031-CALQ	10	24338	2433.800	9.57
0D10031-CALR	50	103198	2063.960	9.57
0D10031-CALS	100	194265	1942.650	9.57
0D10031-CALT	200	370159	1850.795	9.57
0D10031-CALU	500	958890	1917.780	9.57
0D10031-CALV	1000	1938338	1938.338	9.57
0D10031-CALW	2000	4041319	2020.660	9.57

AVE RF **2023.998** RF RSD **9.56** AVE RT **9.57**

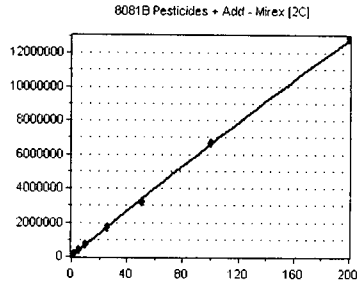
Element Calibration Review Sheet

Calibration ID: **A0D1308** Instrument: **DUALECD3** Calibration Date: **04/13/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD3_QUANTPEST_20041**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

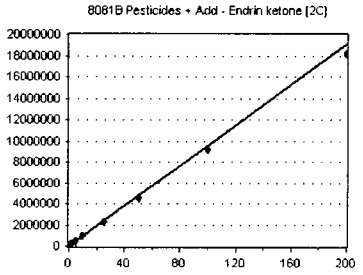


Standard	Concentration	Response	Response Factor	RT
0D10031-CALA	0.5	60436	120872.000	9.79
0D10031-CALB	1	100894	100894.000	9.79
0D10031-CALC	2	167144	83572.000	9.79
0D10031-CALD	5	369585	73917.000	9.79
0D10031-CALE	10	672336	67233.600	9.79
0D10031-CALF	25	1721066	68842.640	9.79
0D10031-CALG	50	3205930	64118.600	9.79
0D10031-CALH	100	6667267	66672.670	9.79
0D10031-CALI	200	1.292903E+07	64645.150	9.79

AVE RF **78974.180** RF RSD **24.93** AVE RT **9.79**

Endrin ketone [2C]

Curve Fit: **AVERAGE RF**

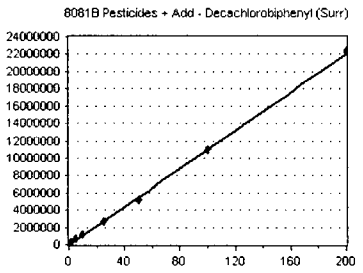


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	57366	114732.000	9.80
0D10031-CAL2	1	100622	100622.000	9.80
0D10031-CAL3	2	188983	94491.500	9.80
0D10031-CAL4	5	464140	92828.000	9.80
0D10031-CAL5	10	942335	94233.500	9.80
0D10031-CAL6	25	2250304	90012.160	9.80
0D10031-CAL7	50	4537747	90754.940	9.80
0D10031-CAL8	100	9234850	92348.500	9.80
0D10031-CAL9	200	1.821171E+07	91058.550	9.80

AVE RF **95675.680** RF RSD **8.16** AVE RT **9.80**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

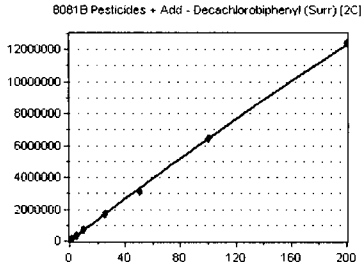


Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	78745	157490.000	9.81
0D10031-CAL2	1	135418	135418.000	9.81
0D10031-CAL3	2	249594	124797.000	9.81
0D10031-CAL4	5	587016	117403.200	9.81
0D10031-CAL5	10	1130527	113052.700	9.81
0D10031-CAL6	25	2727108	109084.300	9.81
0D10031-CAL7	50	5172590	103451.800	9.81
0D10031-CAL8	100	1.096751E+07	109675.100	9.81
0D10031-CAL9	200	2.243062E+07	112153.100	9.81

AVE RF **120280.600** RF RSD **14.04** AVE RT **9.81**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0D10031-CAL1	0.5	50449	100898.000	10.68
0D10031-CAL2	1	81619	81619.000	10.68
0D10031-CAL3	2	153175	76587.500	10.68
0D10031-CAL4	5	364366	72873.200	10.68
0D10031-CAL5	10	701737	70173.700	10.68
0D10031-CAL6	25	1659485	66379.400	10.68
0D10031-CAL7	50	3177027	63540.540	10.68
0D10031-CAL8	100	6496705	64967.050	10.68
0D10031-CAL9	200	1.244066E+07	62203.300	10.68

AVE RF **73249.080** RF RSD **16.63** AVE RT **10.68**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

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
608.3 Additionals
608.3 Chlordane
608.3 Toxaphene
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B Pesticides + Add (Diss)
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0D10031-ICB1	Initial Cal Blank	Water	A20C404		4/10/2020 12:05:00PM
0D10031-CAL1	Cal Standard	Water	A20D133	"	4/10/2020 12:22:00PM
0D10031-CAL2	Cal Standard	Water	A20D134	"	4/10/2020 12:39:00PM
0D10031-CAL3	Cal Standard	Water	A20C179	"	4/10/2020 12:56:00PM
0D10031-CAL4	Cal Standard	Water	A20C180	"	4/10/2020 1:14:00PM
0D10031-CAL5	Cal Standard	Water	A20C181	"	4/10/2020 1:31:00PM
0D10031-CAL6	Cal Standard	Water	A20C182	"	4/10/2020 1:48:00PM
0D10031-CAL7	Cal Standard	Water	A20C183	"	4/10/2020 2:05:00PM
0D10031-CAL8	Cal Standard	Water	A20C184	"	4/10/2020 2:22:00PM
0D10031-CAL9	Cal Standard	Water	A20C177	"	4/10/2020 2:40:00PM
0D10031-ICV1	Initial Cal Check	Water	A20C164	"	4/10/2020 3:14:00PM
0D10031-CALA	Cal Standard	Water	A20D135	"	4/10/2020 3:31:00PM
0D10031-CALB	Cal Standard	Water	A20C353	"	4/10/2020 3:48:00PM
0D10031-CALC	Cal Standard	Water	A20C354	"	4/10/2020 4:06:00PM
0D10031-CALD	Cal Standard	Water	A20C355	"	4/10/2020 4:23:00PM
0D10031-CALE	Cal Standard	Water	A20C356	"	4/10/2020 4:40:00PM
0D10031-CALF	Cal Standard	Water	A20C357	"	4/10/2020 4:57:00PM
0D10031-CALG	Cal Standard	Water	A20C358	"	4/10/2020 5:14:00PM
0D10031-CALH	Cal Standard	Water	A20C359	"	4/10/2020 5:31:00PM
0D10031-CALI	Cal Standard	Water	A20C352	"	4/10/2020 5:49:00PM
0D10031-ICV2	Initial Cal Check	Water	A20C360	"	4/10/2020 6:23:00PM
0D10031-CALJ	Cal Standard	Water	A20D136	"	4/10/2020 6:40:00PM
0D10031-CALK	Cal Standard	Water	A19K307	"	4/10/2020 6:57:00PM
0D10031-CALL	Cal Standard	Water	A19K308	"	4/10/2020 7:14:00PM
0D10031-CALM	Cal Standard	Water	A19K309	"	4/10/2020 7:31:00PM
0D10031-CALN	Cal Standard	Water	A19K310	"	4/10/2020 7:49:00PM
0D10031-CALO	Cal Standard	Water	A19K311	"	4/10/2020 8:06:00PM
0D10031-CALP	Cal Standard	Water	A19K306	"	4/10/2020 8:23:00PM
0D10031-ICV3	Initial Cal Check	Water	A19K312	"	4/10/2020 8:57:00PM
0D10031-CALQ	Cal Standard	Water	A20D137	"	4/10/2020 9:14:00PM
0D10031-CALR	Cal Standard	Water	A19J417	"	4/10/2020 9:31:00PM
0D10031-CALS	Cal Standard	Water	A19J418	"	4/10/2020 9:48:00PM
0D10031-CALT	Cal Standard	Water	A19J419	"	4/10/2020 10:05:00PM
0D10031-CALU	Cal Standard	Water	A19J420	"	4/10/2020 10:22:00PM
0D10031-CALV	Cal Standard	Water	A19J421	"	4/10/2020 10:39:00PM
0D10031-CALW	Cal Standard	Water	A19J416	"	4/10/2020 10:56:00PM
0D10031-ICV4	Initial Cal Check	Water	A19J422	"	4/10/2020 11:30:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0D1308** Instrument: **DualECD3F**

1311/8081B TCLP Pest Reg L Sequence: **0D10031** Matrix: **Water**

0D10031-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0D10031-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0D10031-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

0D10031-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0D10031-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0D10031

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: **A0D1308** Instrument: **DualECD3F**

608 Pesticides (SW) Full List Sequence: **0D10031** Matrix: **Water**

0D10031-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0D10031-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0D10031-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0D10031-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.

Calibration Report DUALECD3

Method Path : C:\msdchem\3\METHODS\
Method File : ECD3_QUANTPEST_200410.M
Title : Instrument: DualECD3
Last Update : Mon Apr 13 12:07:09 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD3-04102036 2 =ECD3-04102037 3 =ECD3-04102038 4 =ECD3-04102039 5 =ECD3-04
6 =ECD3-04102041 7 =ECD3-04102042 8 =ECD3-04102023 9 =ECD3-04102024

MJB 4/13/20

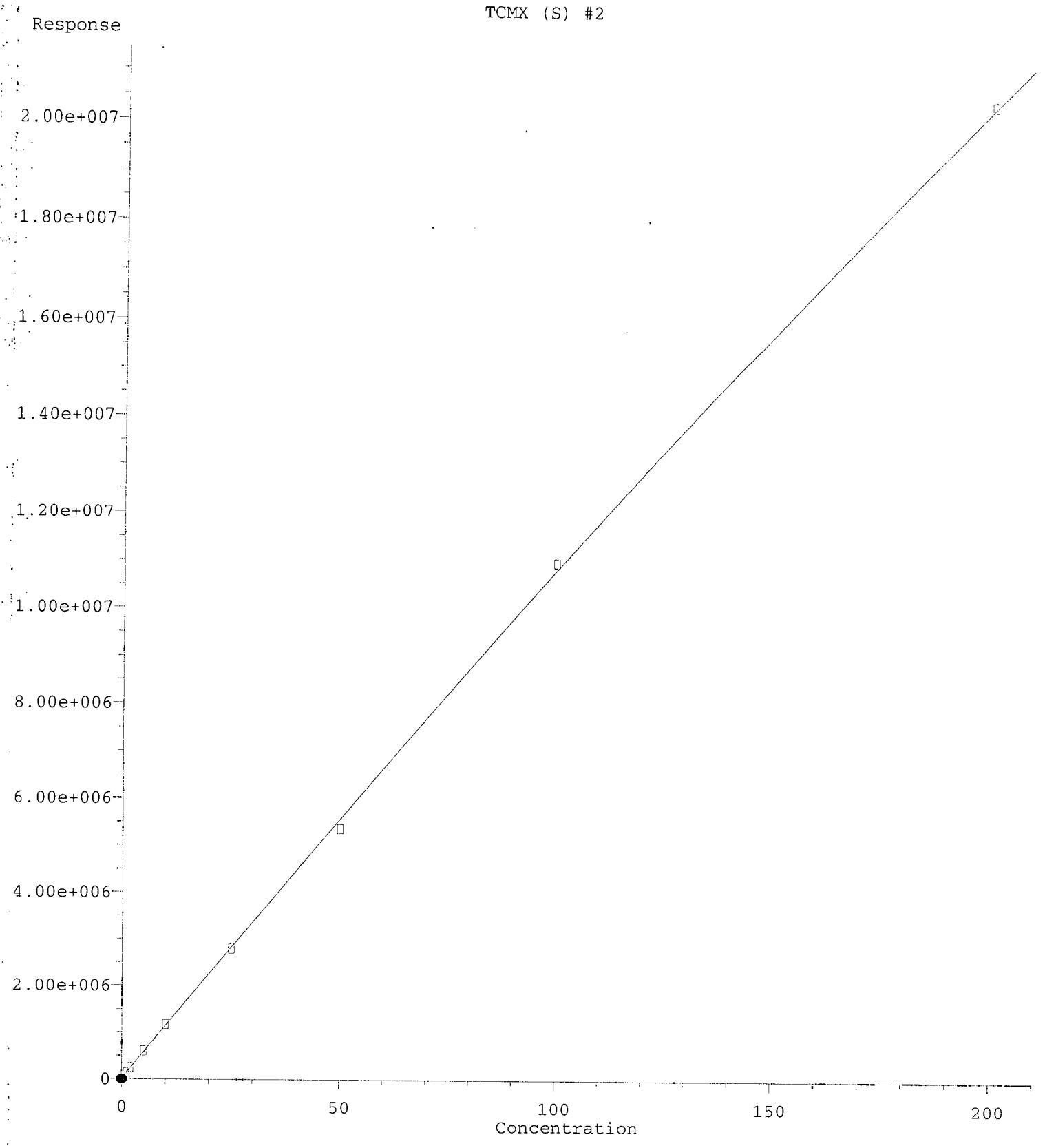
		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	1.4811 e5	-----	0.0631
2)		a-BHC	Avg	-----	2.0229 e5	-----	0.0334
3)		g-BHC	Avg	-----	1.7268 e5	-----	0.0388
4)		b-BHC	Avg	-----	6.8222 e4	-----	0.0638
5)		Heptachlor	Avg	-----	1.6375 e5	-----	0.0445
6)		d-BHC	Avg	-----	1.4037 e5	-----	0.1013
7)		Aldrin	Avg	-----	1.6764 e5	-----	0.0423
8)		Heptachlor Expoxide	Avg	-----	1.5638 e5	-----	0.0685
9)		trans-Chlordane	Avg	-----	1.5736 e5	-----	0.0500
10)		cis-Chlordane	Avg	-----	1.5697 e5	-----	0.1041
11)		Endosulfan I	Avg	-----	1.4352 e5	-----	0.0602
12)		4,4'-DDE	Avg	-----	1.4425 e5	-----	0.0621
13)		Dieldrin	Avg	-----	1.6071 e5	-----	0.0358
14)		Endrin	Avg	-----	1.2336 e5	-----	0.0479
15)		4,4'-DDD	Avg	-----	1.2140 e5	-----	0.0623
16)		Endosulfan II	Avg	-----	1.2105 e5	-----	0.0483
17)		4,4'-DDT	Quad	-7.9268 e3	8.5708 e4	2.1159 e2	0.9954
18)		Endrin Aldehyde	Quad	2.3143 e4	1.0274 e5	8.8266	0.9991
19)		Endosulfan Sulfate	Avg	-----	1.2046 e5	-----	0.0832
20)		Methoxychlor	Quad	-1.5557 e3	4.0938 e4	8.7429 e1	0.9983
21)		Endrin Ketone	Avg	-----	1.4405 e5	-----	0.0691
22)	S	DCBP (S)	Quad	2.4812 e4	1.0944 e5	3.5813	0.9990
23)		Hexachlorobutadiene	Quad	2.8009 e4	1.7335 e5	-8.2212 e1	0.9982
24)		Hexachlorobenzene	Quad	2.7021 e4	1.3306 e5	3.4652 e1	0.9982
25)		Oxychlordane	Quad	2.5859 e4	1.2938 e5	1.1860 e1	0.9971
26)		2,4'-DDE	Quad	1.6499 e4	9.0187 e4	2.8032 e1	0.9979
27)		trans-Nonachlor	Quad	2.9850 e4	1.4305 e5	1.5151 e1	0.9966
28)		2,4'-DDD	Quad	1.7750 e4	8.1358 e4	7.0260	0.9974
29)		2,4'-DDT	Avg	-----	7.5279 e4	-----	0.0860
30)		cis-Nonachlor	Quad	3.2391 e4	1.5295 e5	2.5901 e1	0.9984
31)		Mirex	Quad	3.6627 e4	9.8990 e4	-1.3892 e1	0.9947
32)		Chlordane (1)	Avg	-----	1.7650 e4	-----	0.0596
33)		Chlordane (2)	Avg	-----	2.0722 e4	-----	0.0579
34)		Chlordane (3)	Avg	-----	5.3207 e3	-----	0.0515
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	8.3242 e2	-----	0.0891
37)		Toxaphene (2)	Avg	-----	1.5068 e3	-----	0.0560
38)		Toxaphene (3)	Avg	-----	3.1104 e3	-----	0.0311
39)		Toxaphene (4)	Quad	1.6915 e4	2.7954 e3	0.1445	0.9997
40)		Toxaphene (5)	Avg	-----	2.3551 e3	-----	0.0431
41)		Toxaphene (6)	Avg	-----	3.0334 e3	-----	0.0658
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Quad	1.5692 e4	1.1382 e5	-6.0412 e1	0.9994
2)		a-BHC	Avg	-----	1.5697 e5	-----	0.0585
3)		g-BHC	Avg	-----	1.3473 e5	-----	0.0563
4)		b-BHC	Avg	-----	6.1416 e4	-----	0.0957
5)		Heptachlor	Avg	-----	1.1320 e5	-----	0.0502
6)		d-BHC	Avg	-----	1.2224 e5	-----	0.0391
7)		Aldrin	Avg	-----	1.3290 e5	-----	0.0722

8)		Heptachlor Expoxide	Avg	-----	1.1769 e5	-----	0.0828
9)		trans-Chlordane	Avg	-----	1.2060 e5	-----	0.0811
10)		cis-Chlordane	Avg	-----	1.1583 e5	-----	0.0962
11)		Endosulfan I	Avg	-----	1.0754 e5	-----	0.0958
12)		4,4'-DDE	Avg	-----	1.1515 e5	-----	0.0516
13)		Dieldrin	Avg	-----	1.1974 e5	-----	0.0628
14)		Endrin	Avg	-----	8.6450 e4	-----	0.0383
15)		4,4'-DDD	Avg	-----	9.4366 e4	-----	0.1022
16)		Endosulfan II	Avg	-----	9.1718 e4	-----	0.0821
17)		4,4'-DDT	Quad	-3.8517 e3	5.4571 e4	1.1875 e2	0.9947
18)		Endrin Aldehyde	Quad	1.9386 e4	8.0327 e4	-2.3577 e1	0.9985
19)		Endosulfan Sulfate	Avg	-----	8.4178 e4	-----	0.0795
20)		Methoxychlor	Quad	-1.1441 e3	2.5750 e4	5.7902 e1	0.9986
21)		Endrin Ketone	Avg	-----	9.5676 e4	-----	0.0816
22)	S	DCBP (S)	Quad	1.6402 e4	6.7481 e4	-2.9599 e1	0.9992
23)		Hexachlorobutadiene	Quad	3.3927 e4	1.6460 e5	-1.9646 e2	0.9980
24)		Hexachlorobenzene	Quad	2.6563 e4	1.0901 e5	-4.9611 e1	0.9979
25)		Oxychlordane	Quad	2.1672 e4	9.8677 e4	-3.0107 e1	0.9962
26)		2,4'-DDE	Quad	1.7867 e4	7.7370 e4	-3.6074 e1	0.9978
27)		trans-Nonachlor	Quad	2.4254 e4	1.1038 e5	-5.6506 e1	0.9972
28)		2,4'-DDD	Quad	1.9342 e4	6.6591 e4	-2.1023 e1	0.9965
29)		2,4'-DDT	Avg	-----	5.3640 e4	-----	0.1041
30)		cis-Nonachlor	Quad	2.7348 e4	1.1634 e5	-4.5635 e1	0.9980
31)		Mirex	Quad	2.8039 e4	6.7732 e4	-1.8988 e1	0.9978
32)		Chlordane (1)	Avg	-----	1.4467 e4	-----	0.0853
33)		Chlordane (2)	Avg	-----	1.2361 e4	-----	0.0911
34)		Chlordane (3)	Quad	1.5604 e4	3.5976 e3	0.0056	0.9978
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	1.1200 e3	-----	0.0564
37)		Toxaphene (2)	Avg	-----	1.3641 e3	-----	0.0625
38)		Toxaphene (3)	Avg	-----	2.1703 e3	-----	0.1000
39)		Toxaphene (4)	Quad	3.1421 e4	3.1213 e3	0.1138	0.9997
40)		Toxaphene (5)	Quad	5.9133 e3	1.8085 e3	0.0473	0.9995
41)		Toxaphene (6)	Avg	-----	2.0240 e3	-----	0.0956
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD3_QUANTPEST_200410.M Mon Apr 13 14:58:56 2020

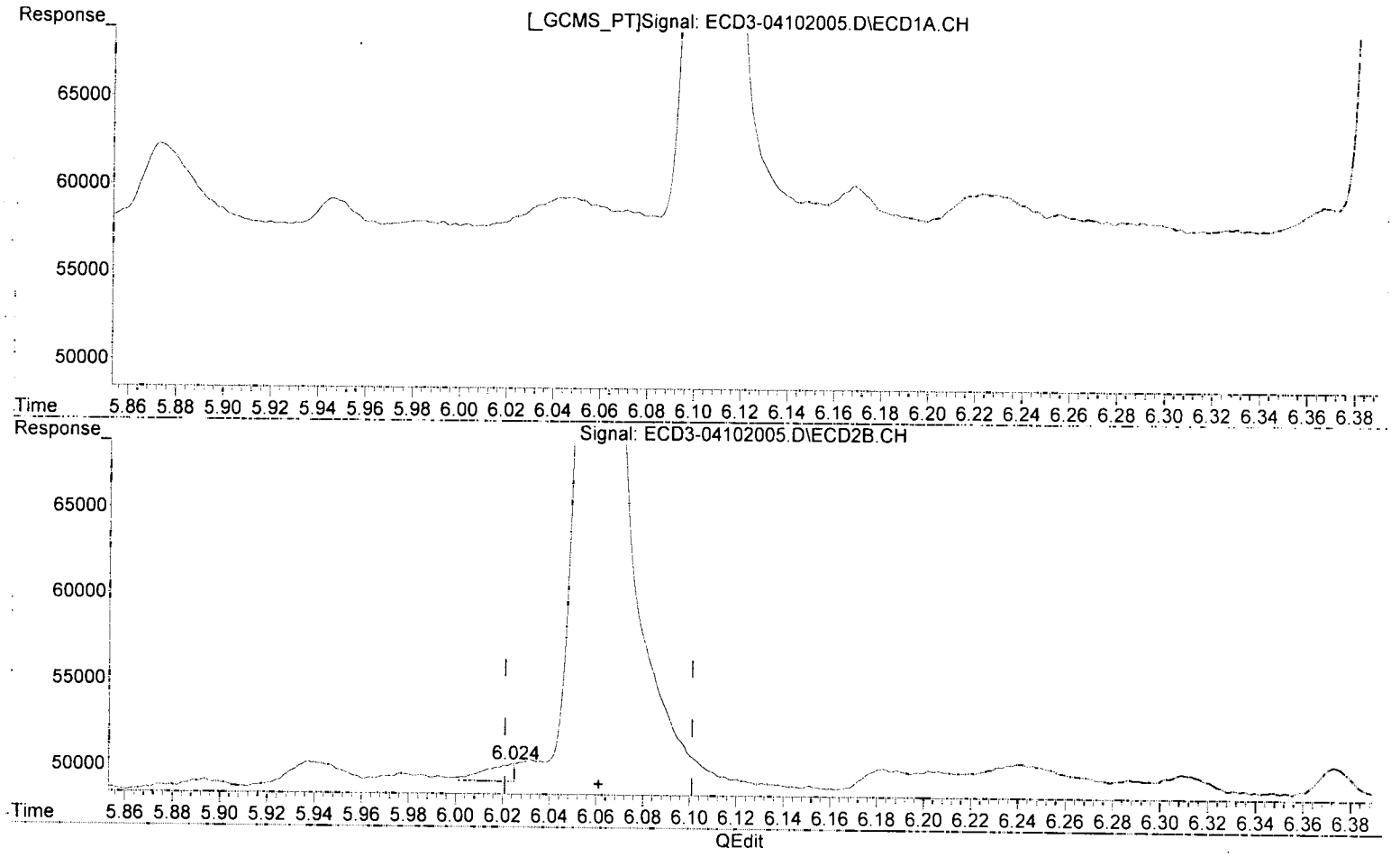


R = -6.04e+001 A*A + 1.14e+005 A + 1.57e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(1) TCMX (S) (S)

5.561min 0.579 ng/mL

response 85749

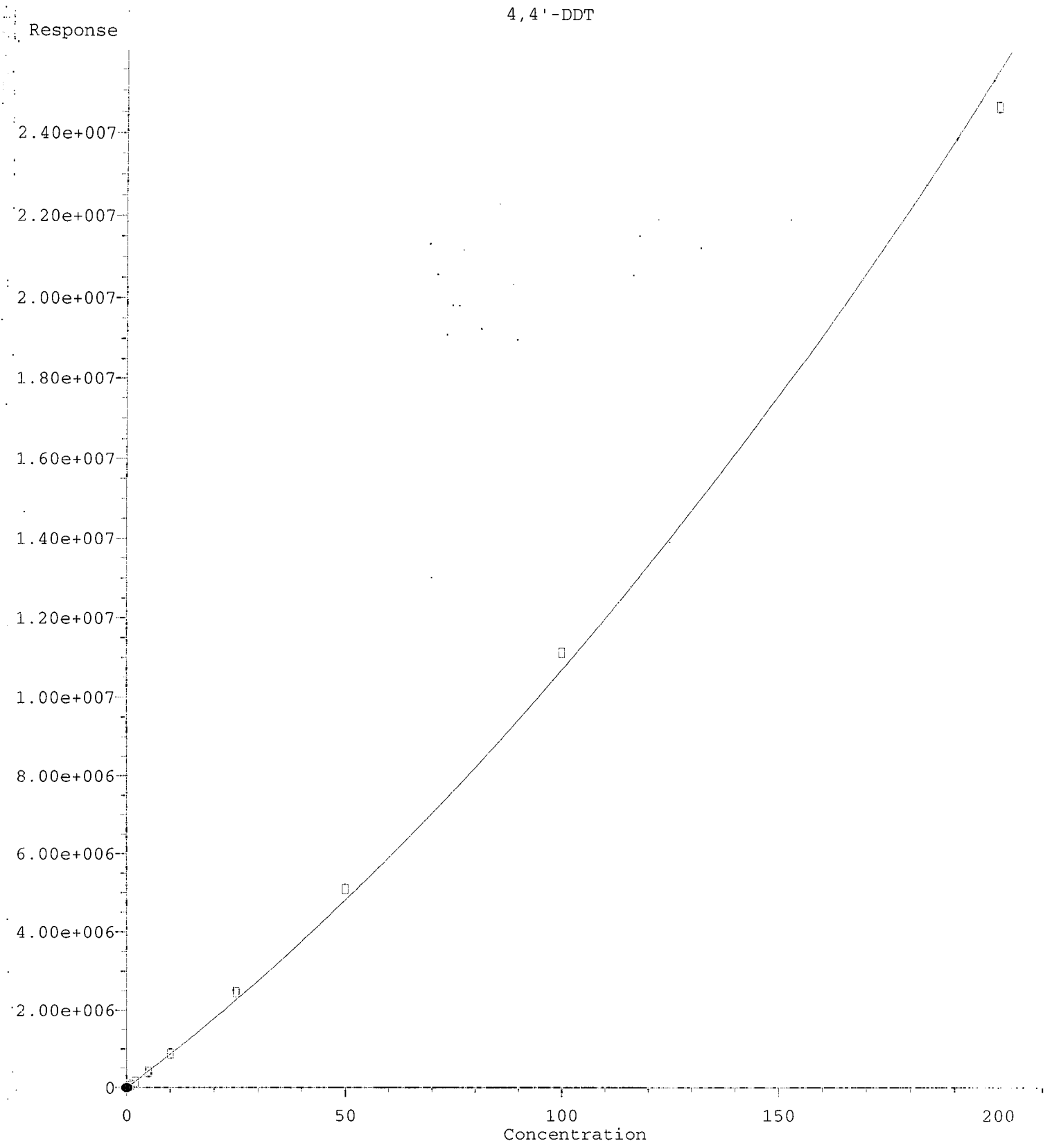
MJB 4/13/20

(1) TCMX (S) #2 (S)

6.024min 1884.105 ng/mL (m) Q-DCI

response 1030

(+) = Expected Retention Time

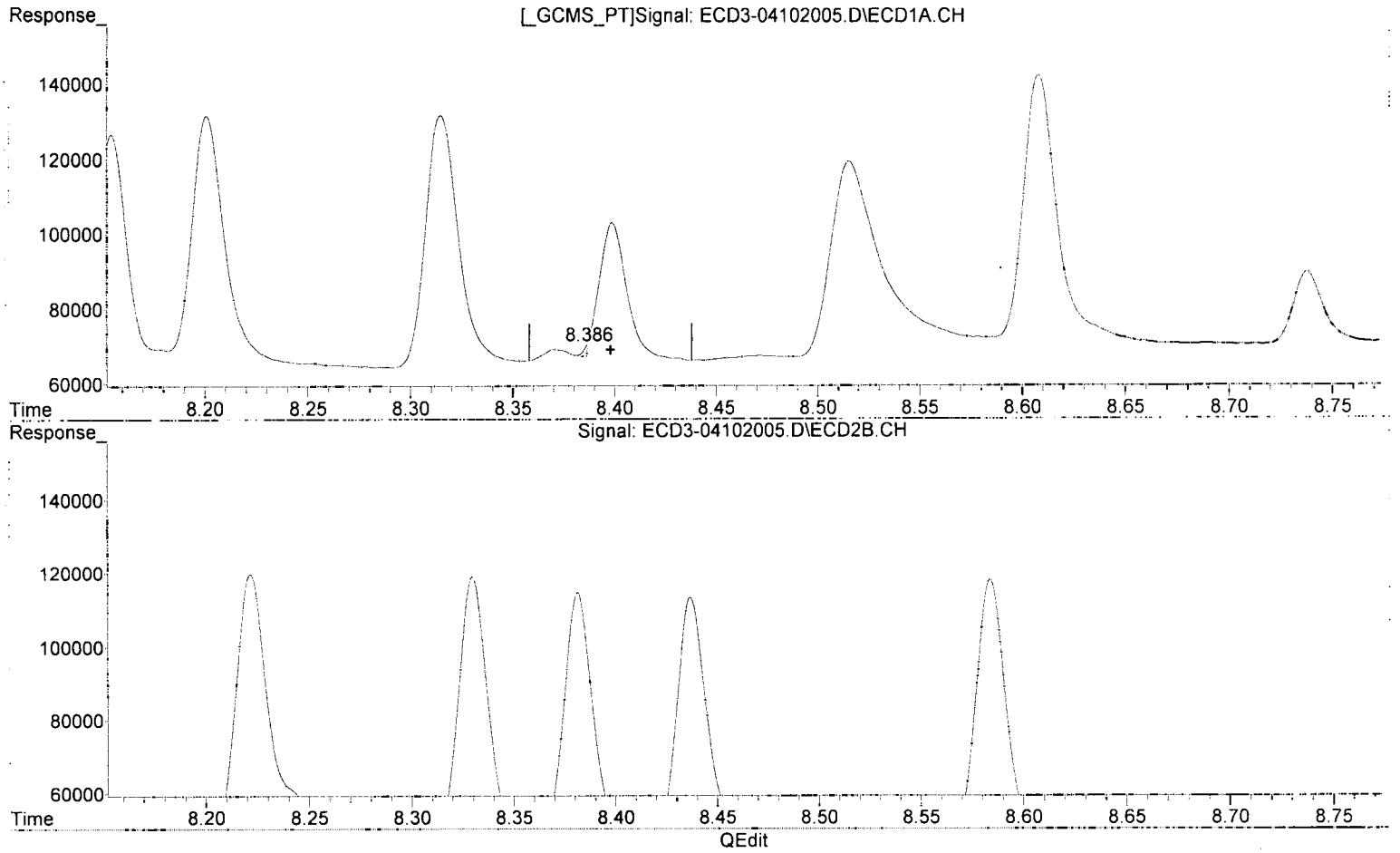


R = 2.12e+002 A*A + 8.57e+004 A - 7.93e+003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.386min 0.125 ng/mL (m)

response 2810

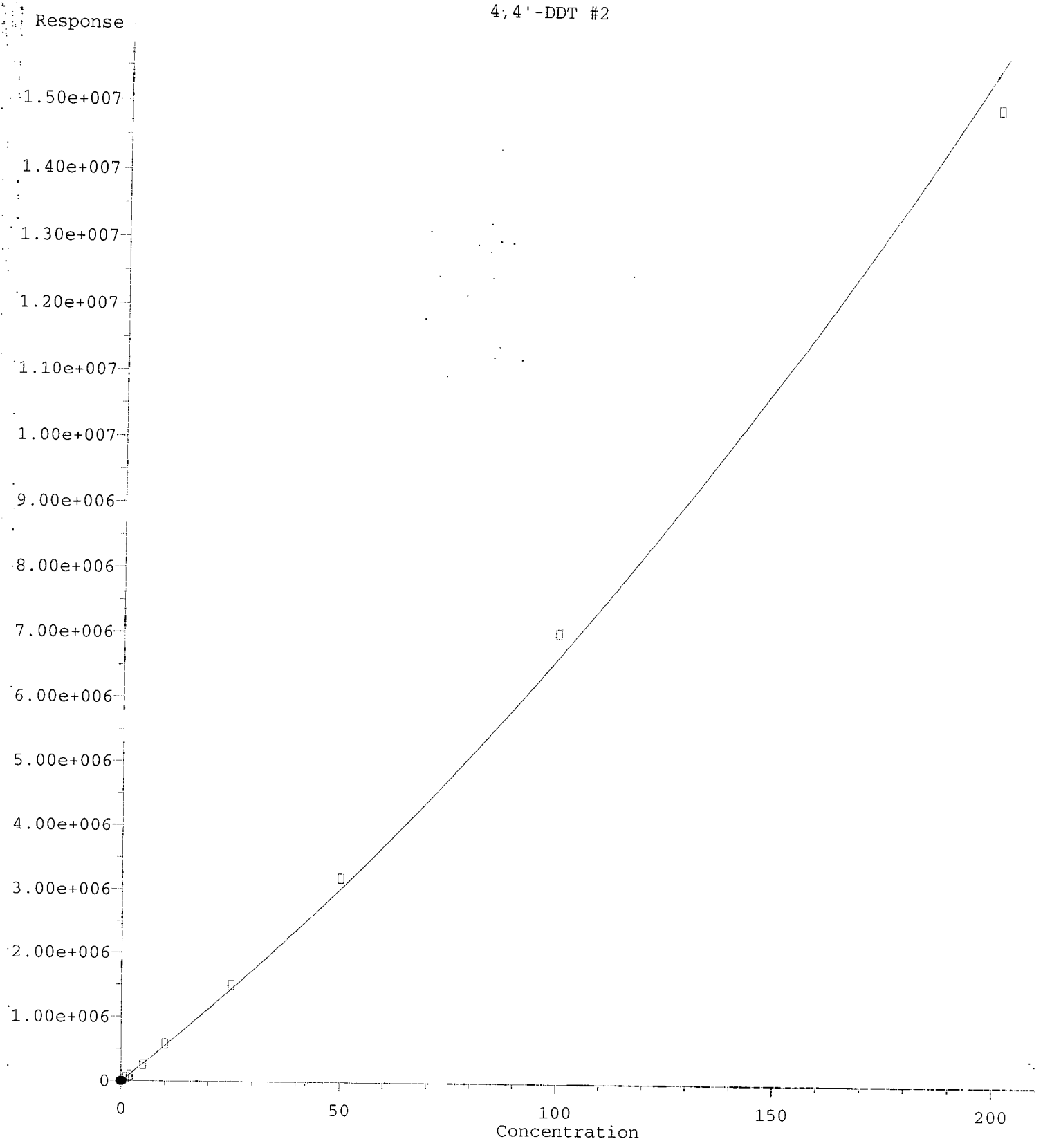
MB 4/13/20

(17) 4,4'-DDT #2

9.084min 0.524 ng/mL

response 24779

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:18:49 2020 Page: 1

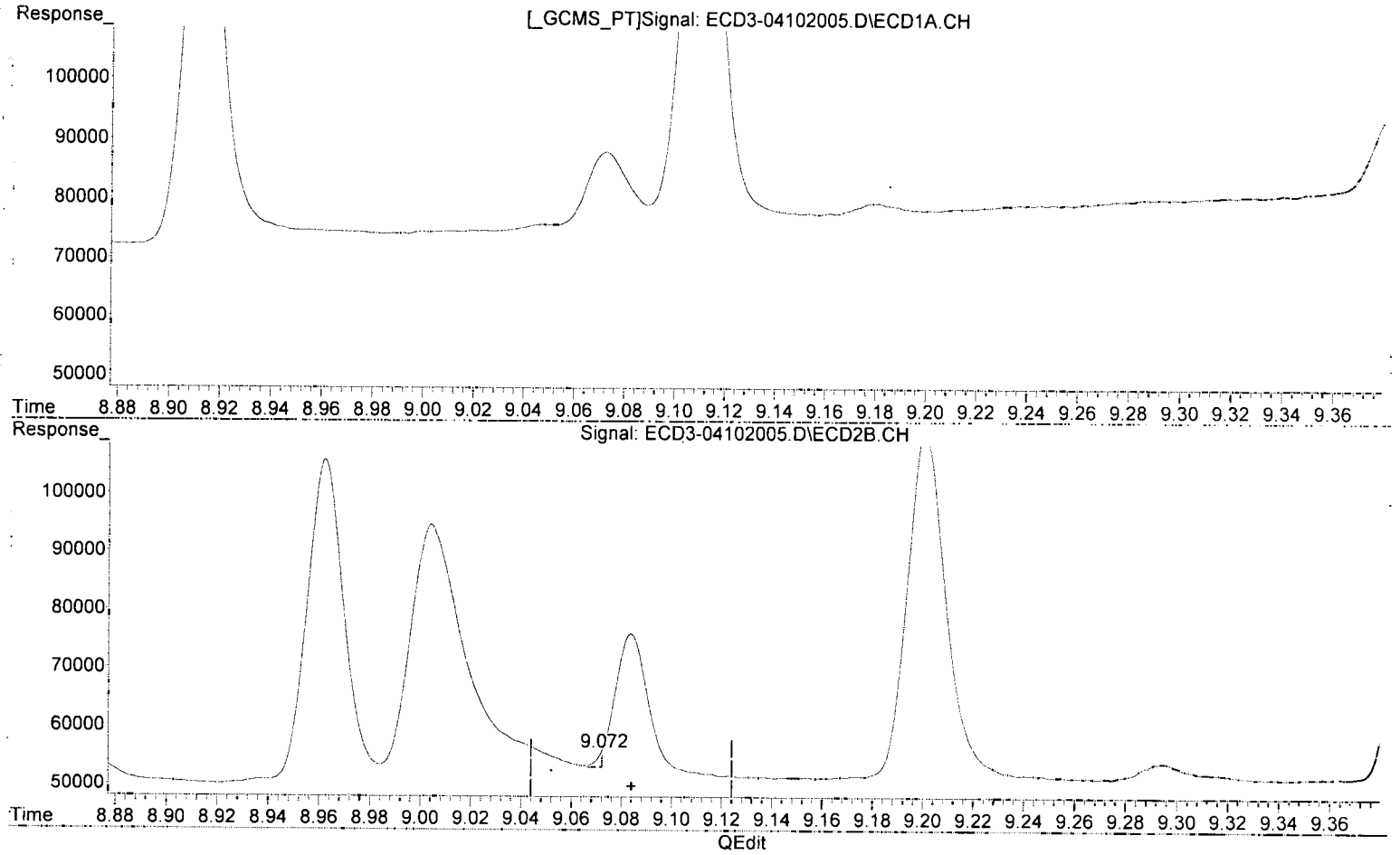


R = 1.19e+002 A*A + 5.46e+004 A + 3.85e+003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.386min 0.125 ng/mL m

response 2810

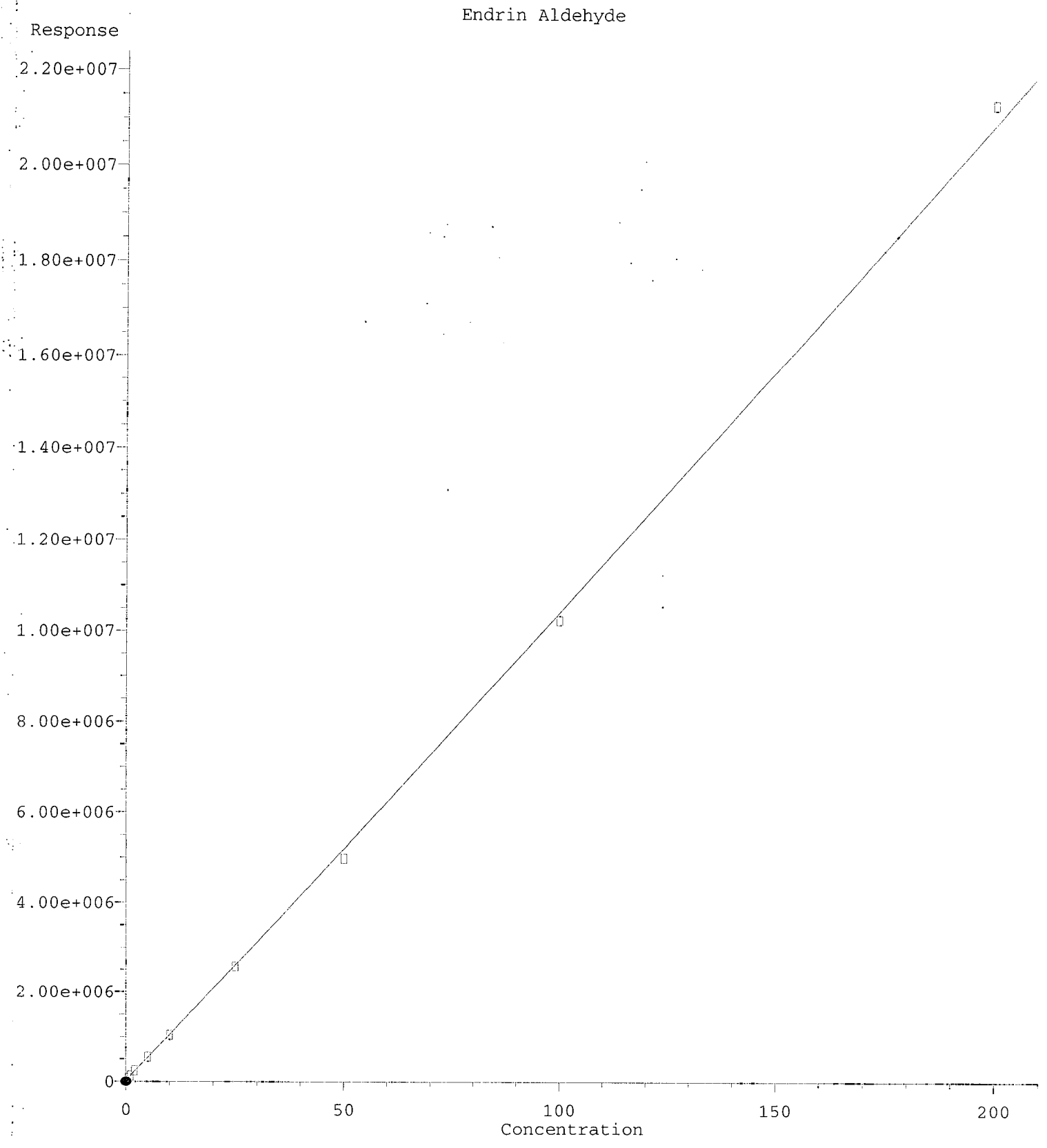
MJB 4/13/20

(17) 4,4'-DDT #2

9.072min 0.118 ng/mL (m)

response 2614

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:00 2020 Page: 1

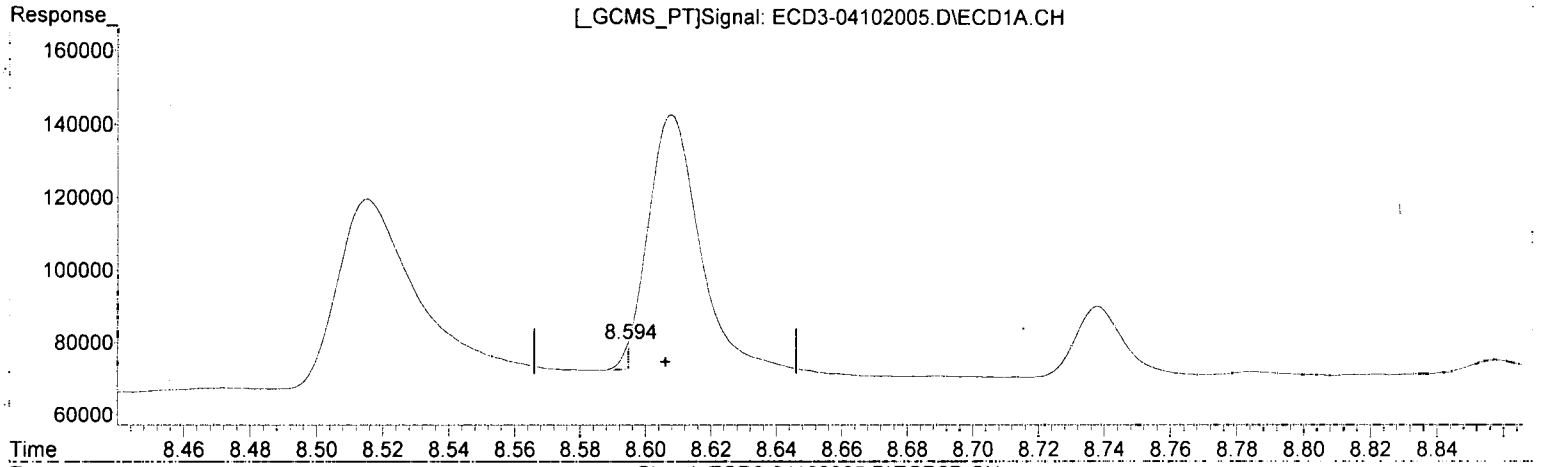


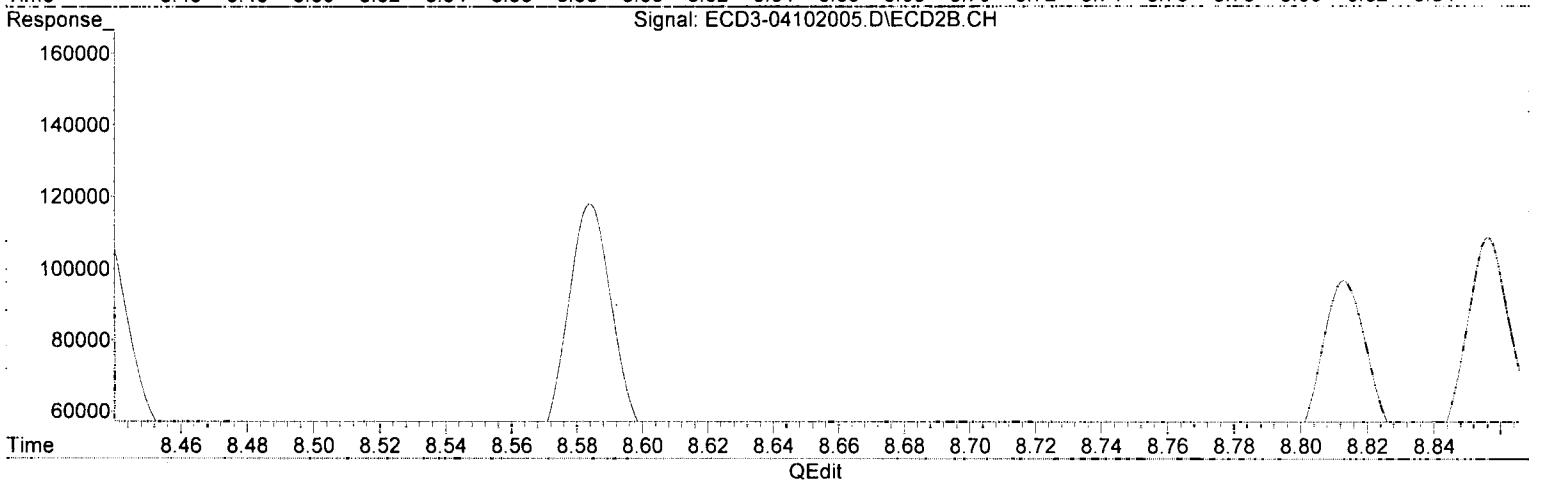
R = 8.83e+000 A*A + 1.03e+005 A + 2.31e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(18) Endrin Aldehyde

8.594min -0.156 ng/mL (m)

response 7081

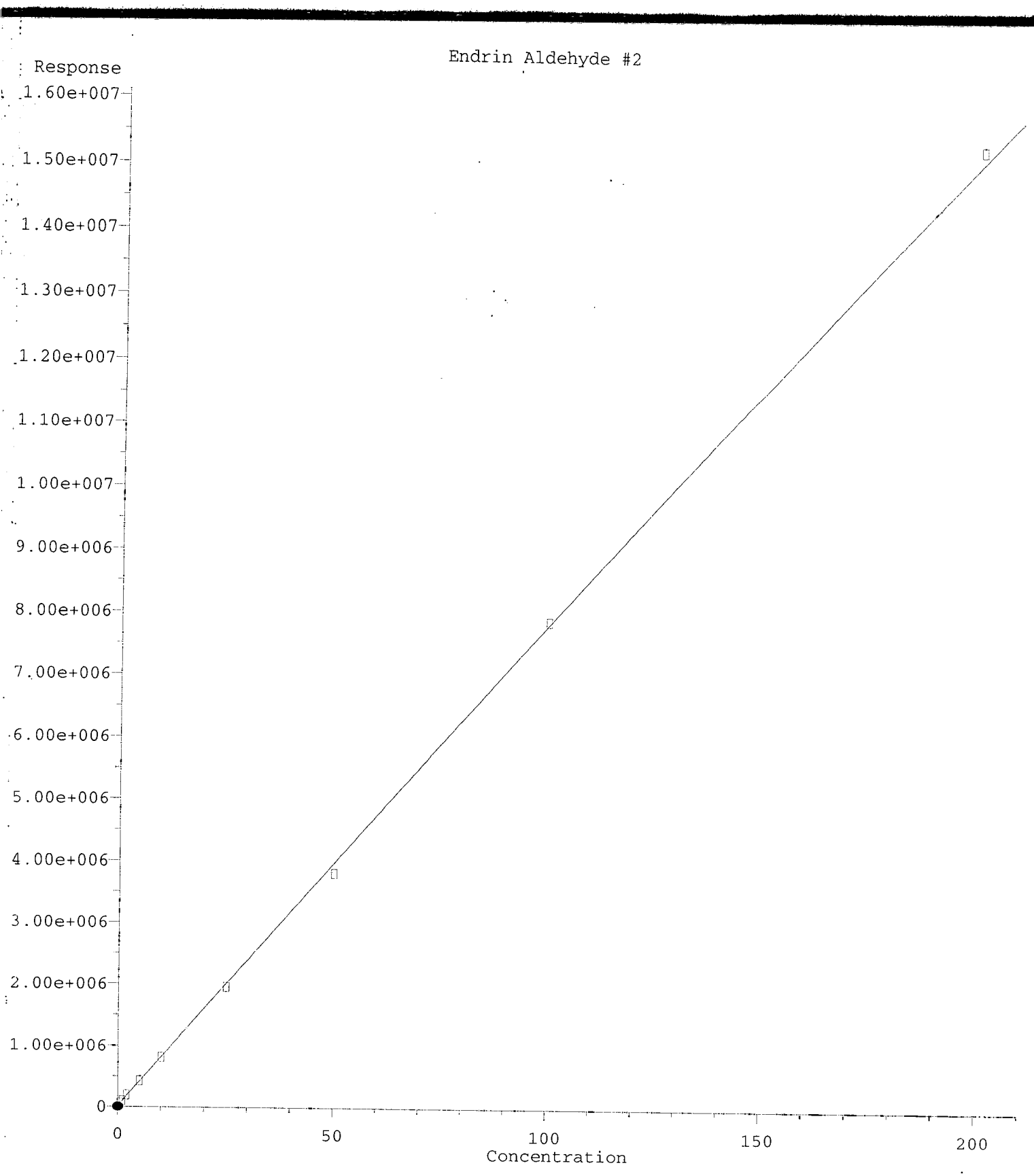
MJB 4/13/20

(18) Endrin Aldehyde #2

9.201min 0.490 ng/mL

response 58732

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:13 2020 Page: 1

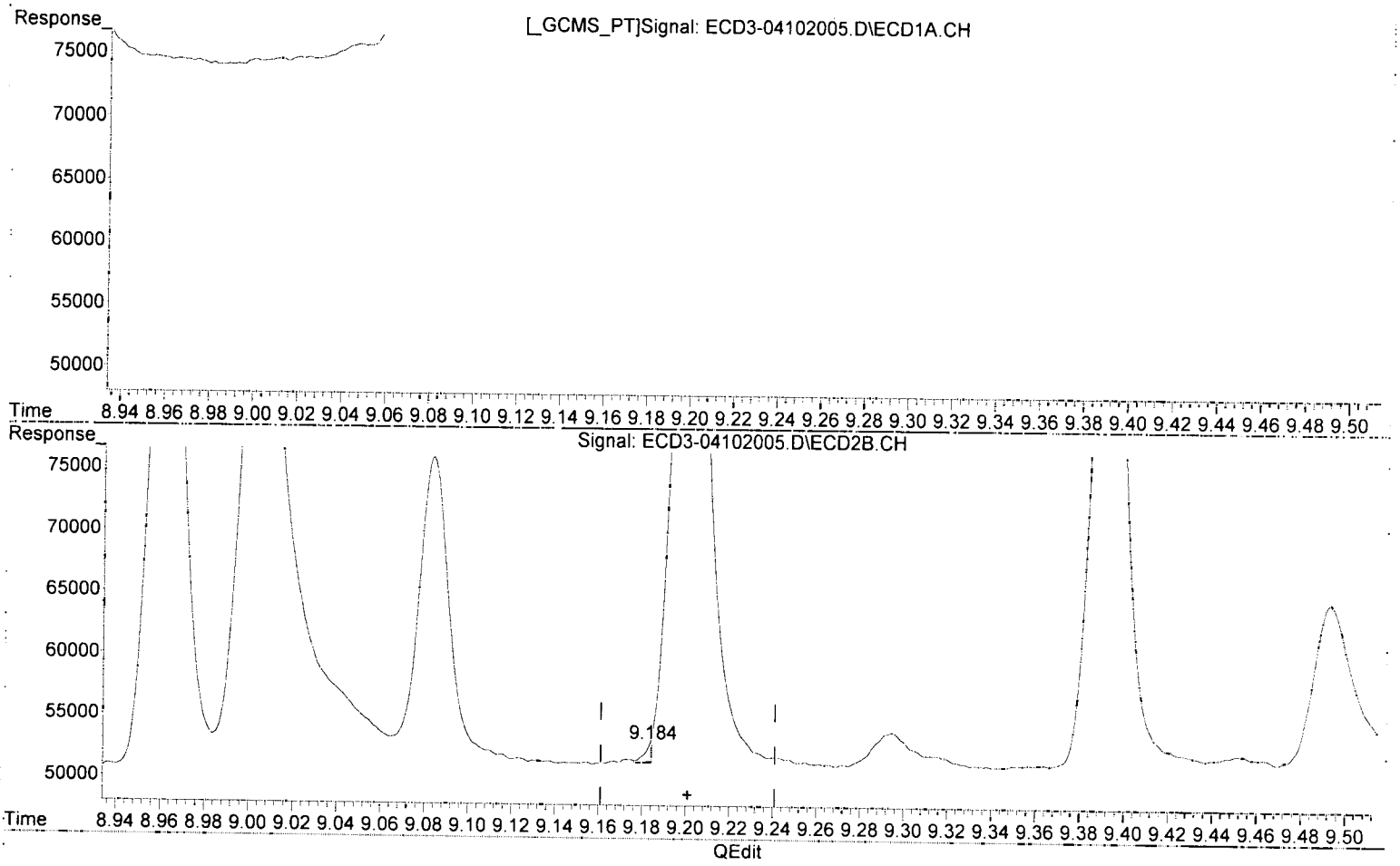


R = -2.36e+001 A*A + 8.03e+004 A + 1.94e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.594min -0.156 ng/mL m

response 7081

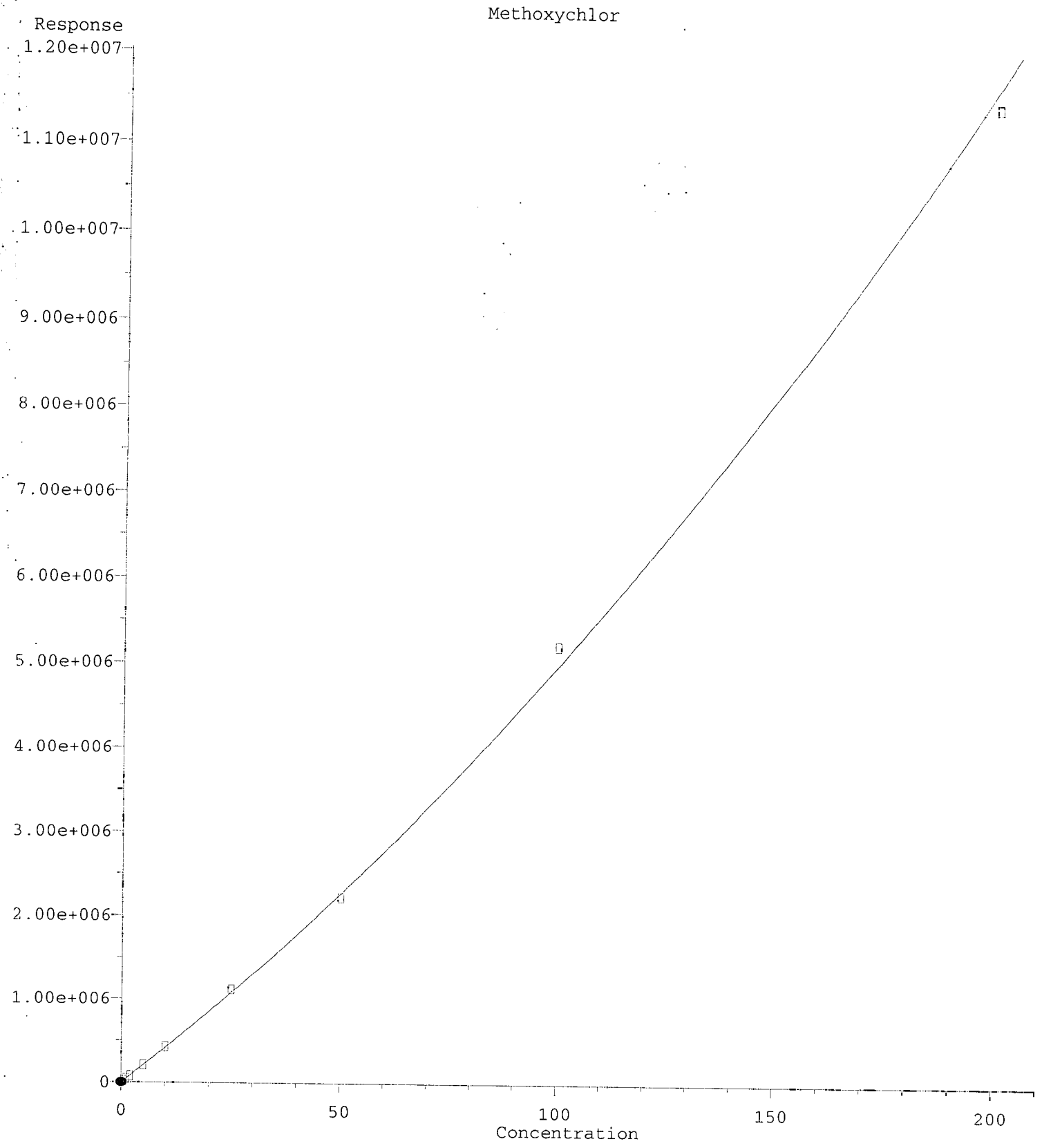
MJB 4/13/20

(18) Endrin Aldehyde #2

9.184min 3407/189 ng/mL (m) QDel

response 1523

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:25 2020

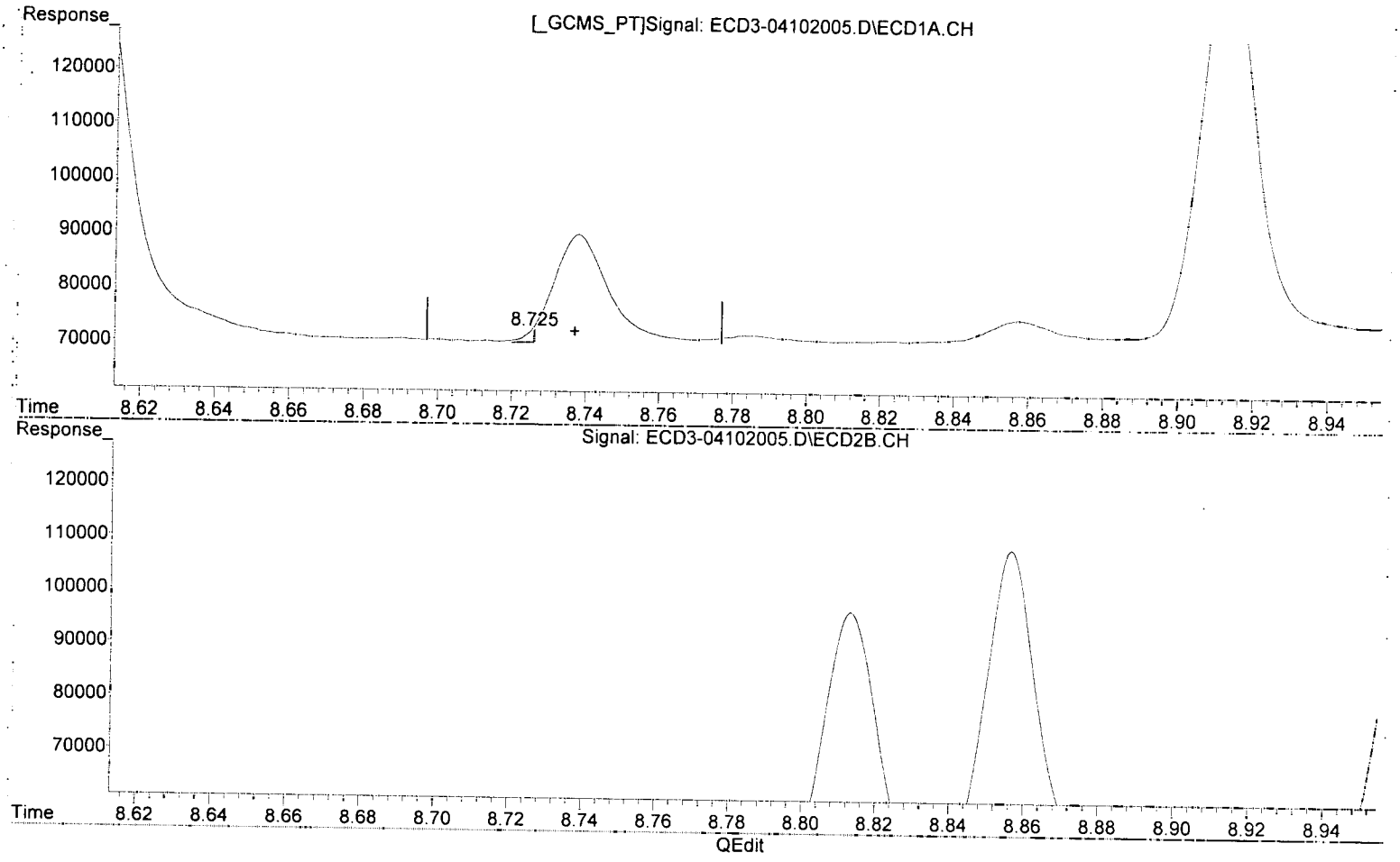


R = 8.74e+001 A*A + 4.09e+004 A - 1.56e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.725min 0.093 ng/mL m

response 2250

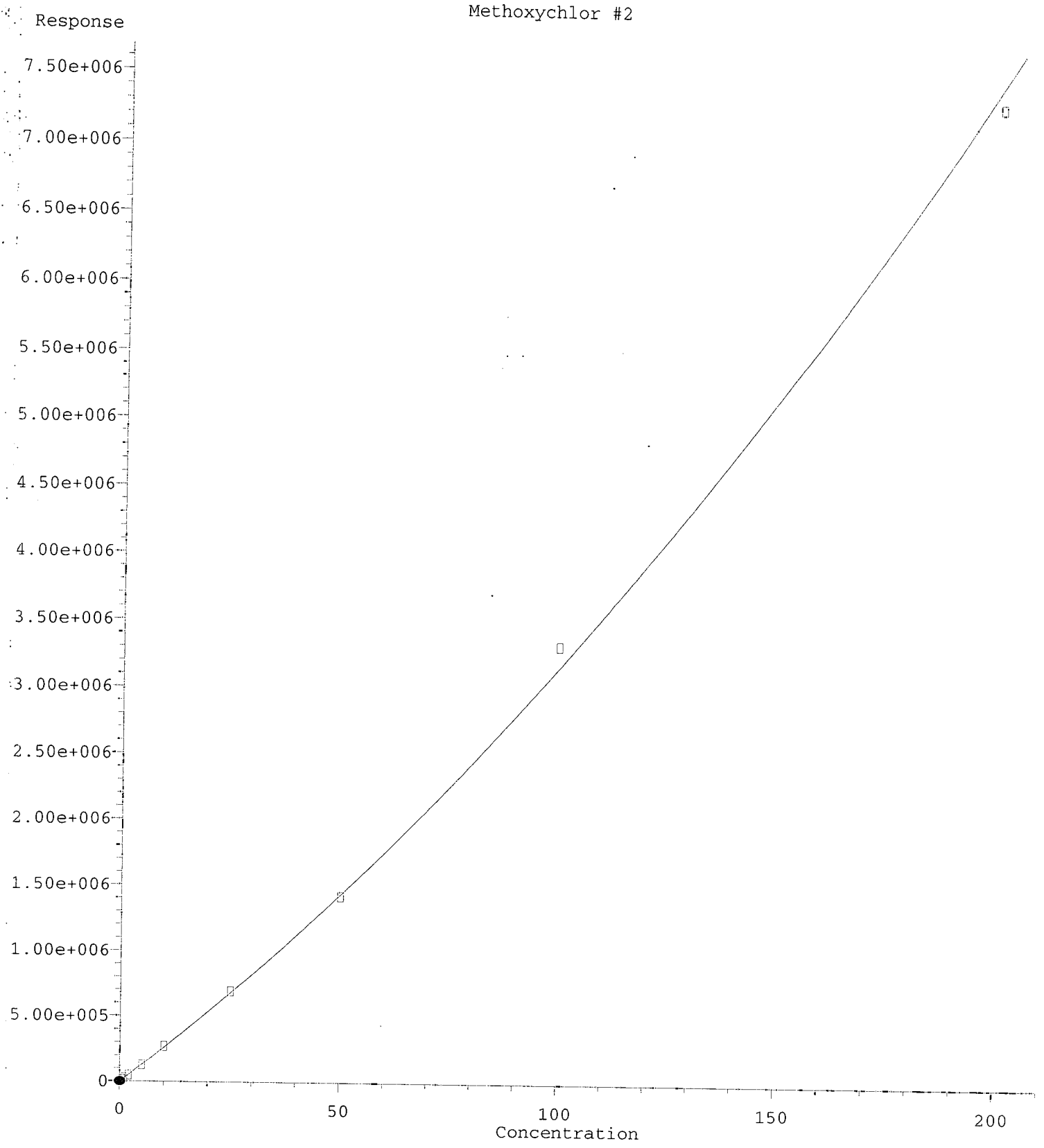
MB 4/13/20

(20) Methoxychlor #2

9.568min 0.506 ng/mL

response 11909

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:36 2020

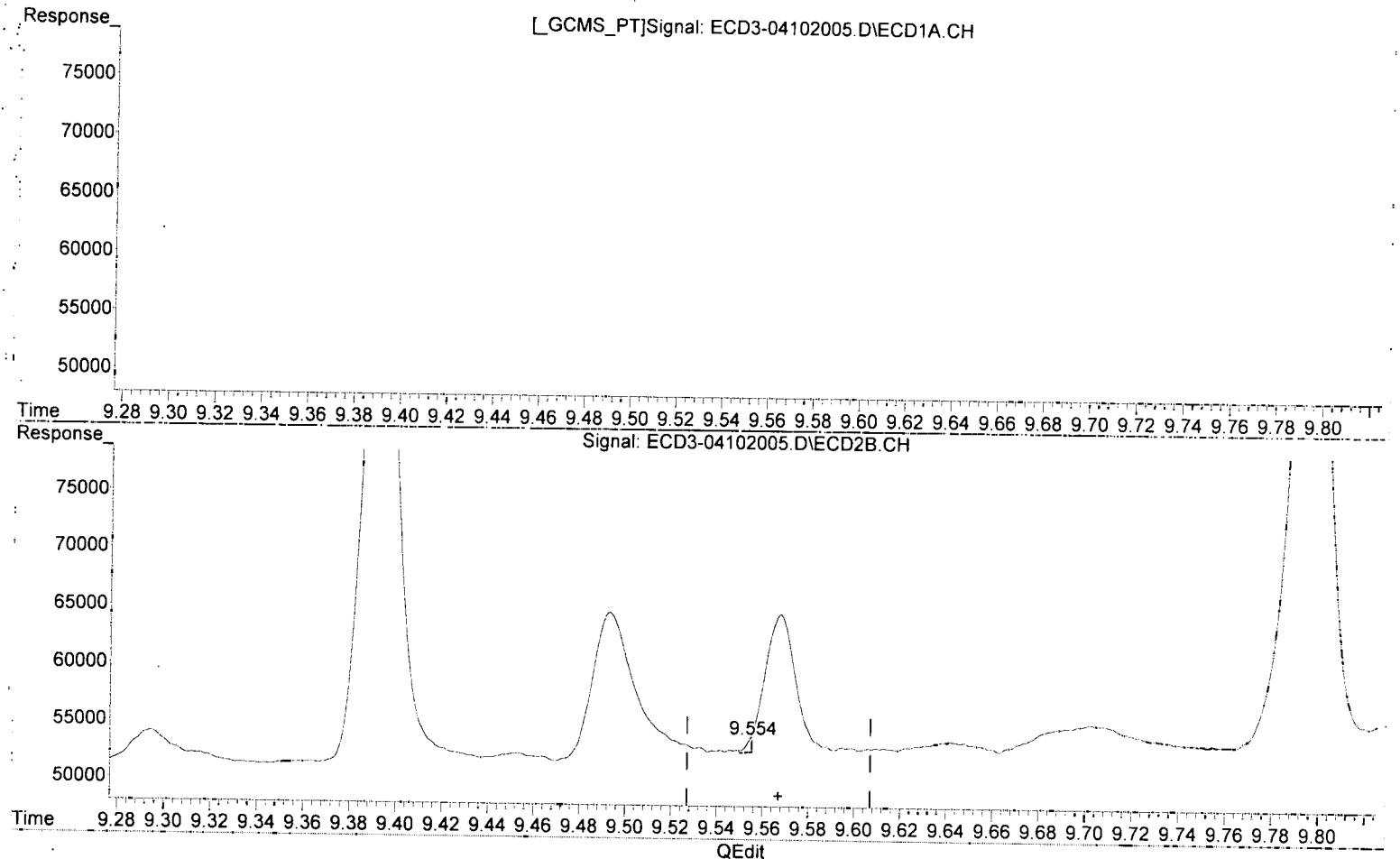


R = 5.79e+001 A*A + 2.58e+004 A + 1.14e+003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.725min 0.093 ng/mL m

response 2250

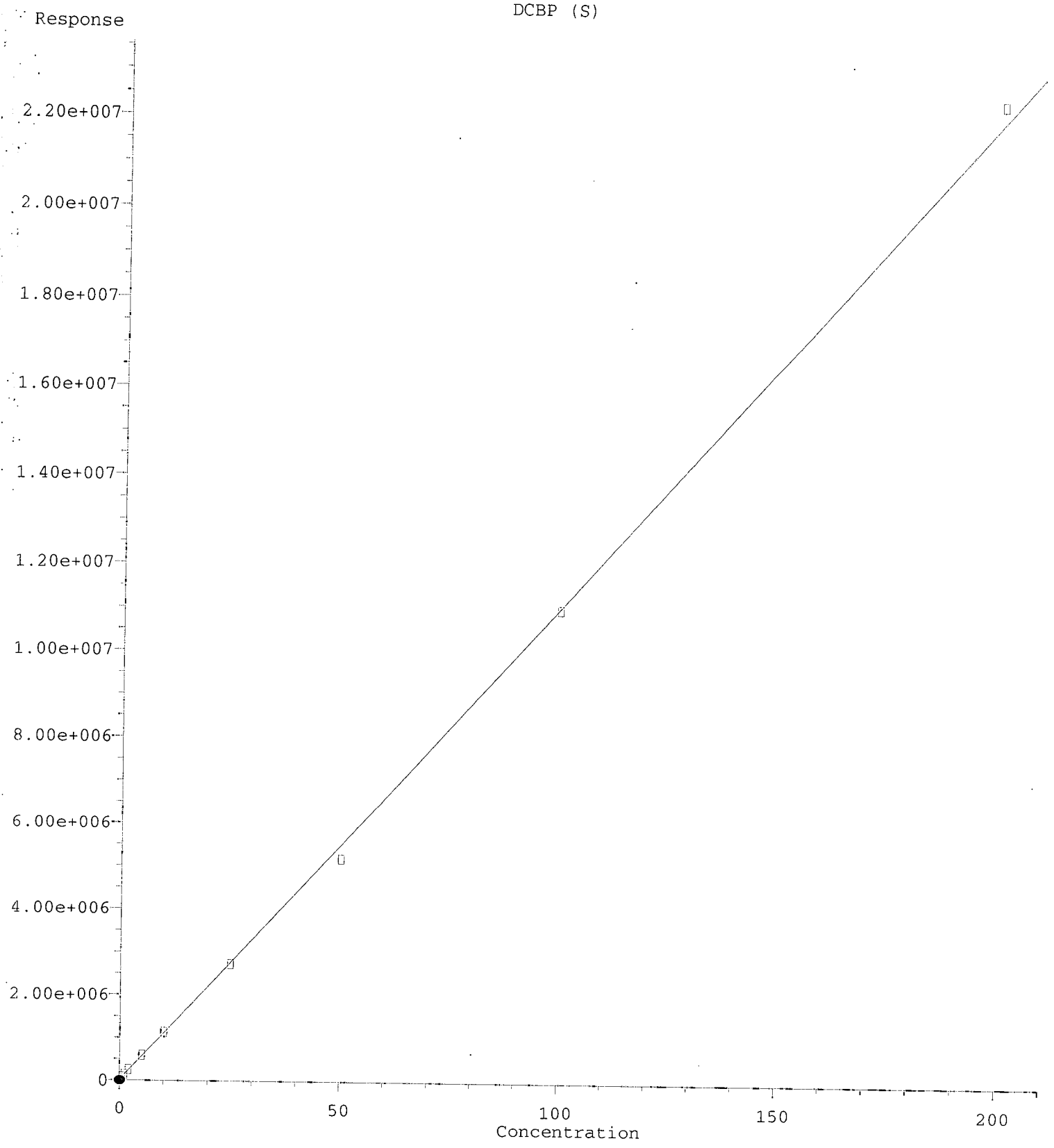
MJB 4/13/20

(20) Methoxychlor #2

9.554min 0.088 ng/mL m

response 1132

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:48 2020

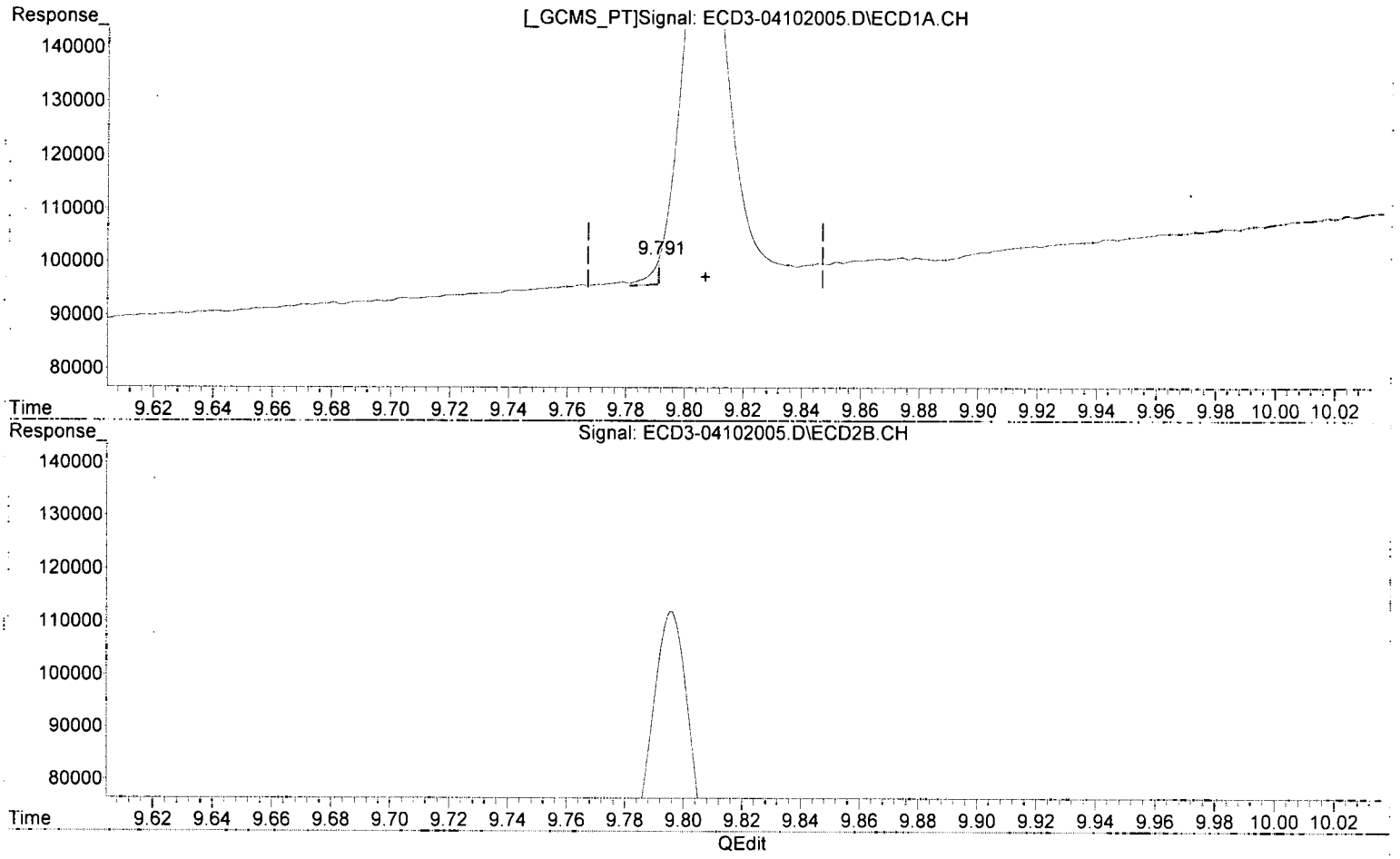


R = 3.58e+000 A*A + 1.09e+005 A + 2.48e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(22) DCBP (S) (S)

9.791min -0.183 ng/mL

response 4759

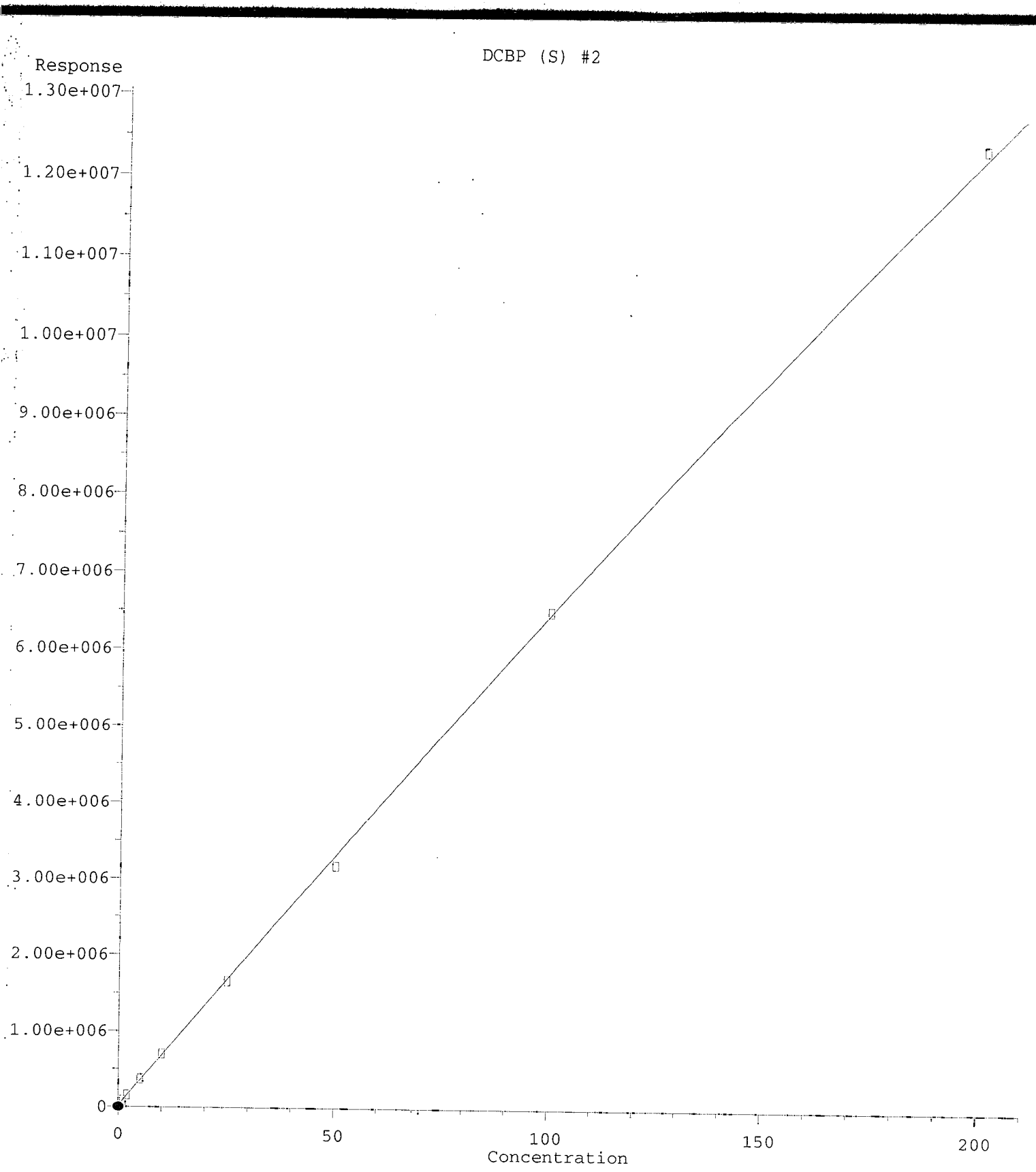
MB 4/13/20

(22) DCBP (S) #2 (S)

10.678min 0.505 ng/mL

response 50449

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:19:58 2020

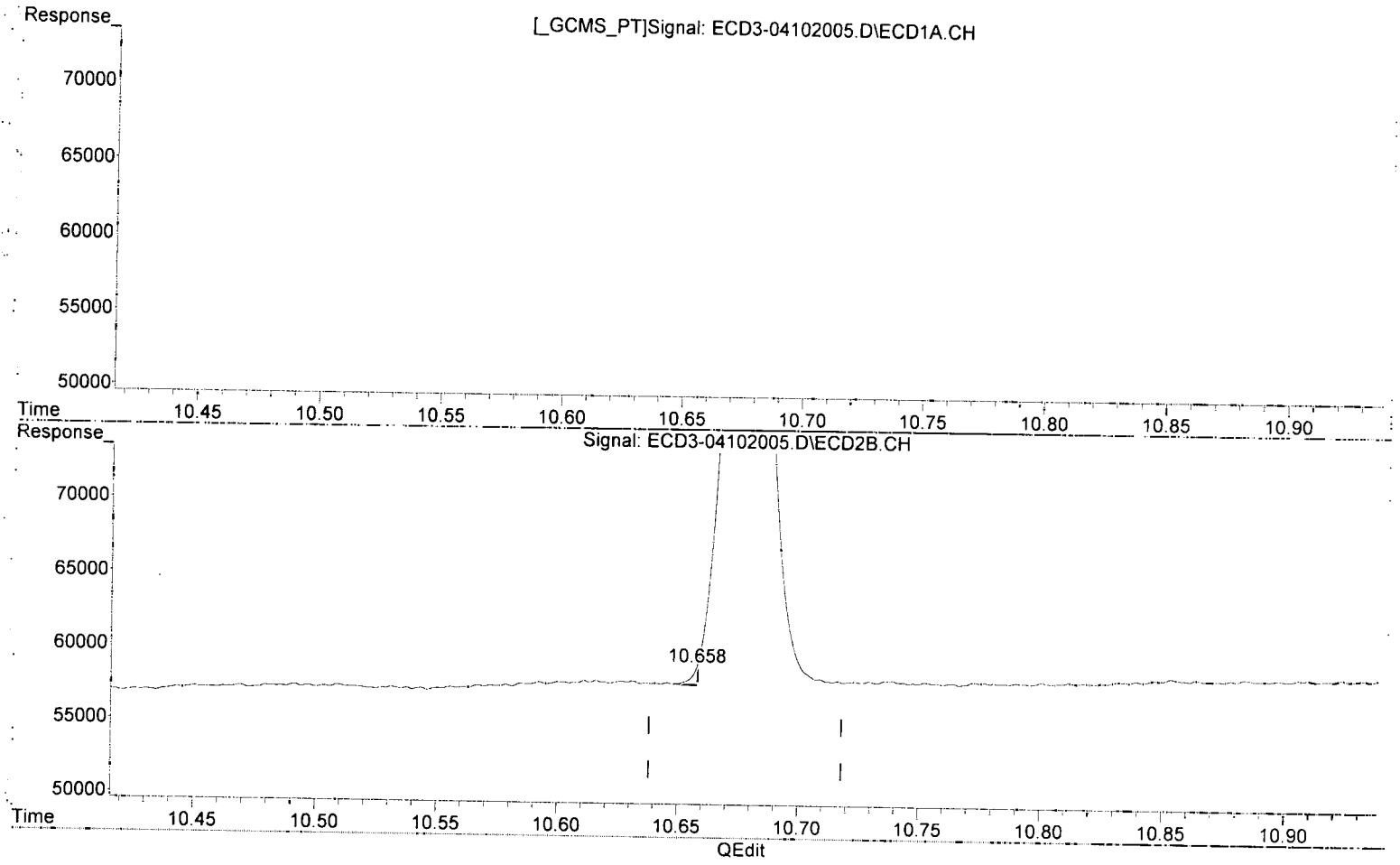


R = -2.96e+001 A*A + 6.75e+004 A + 1.64e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(22) DCBP (S) (S)

9.791min -0.183 ng/mL m

response 4759

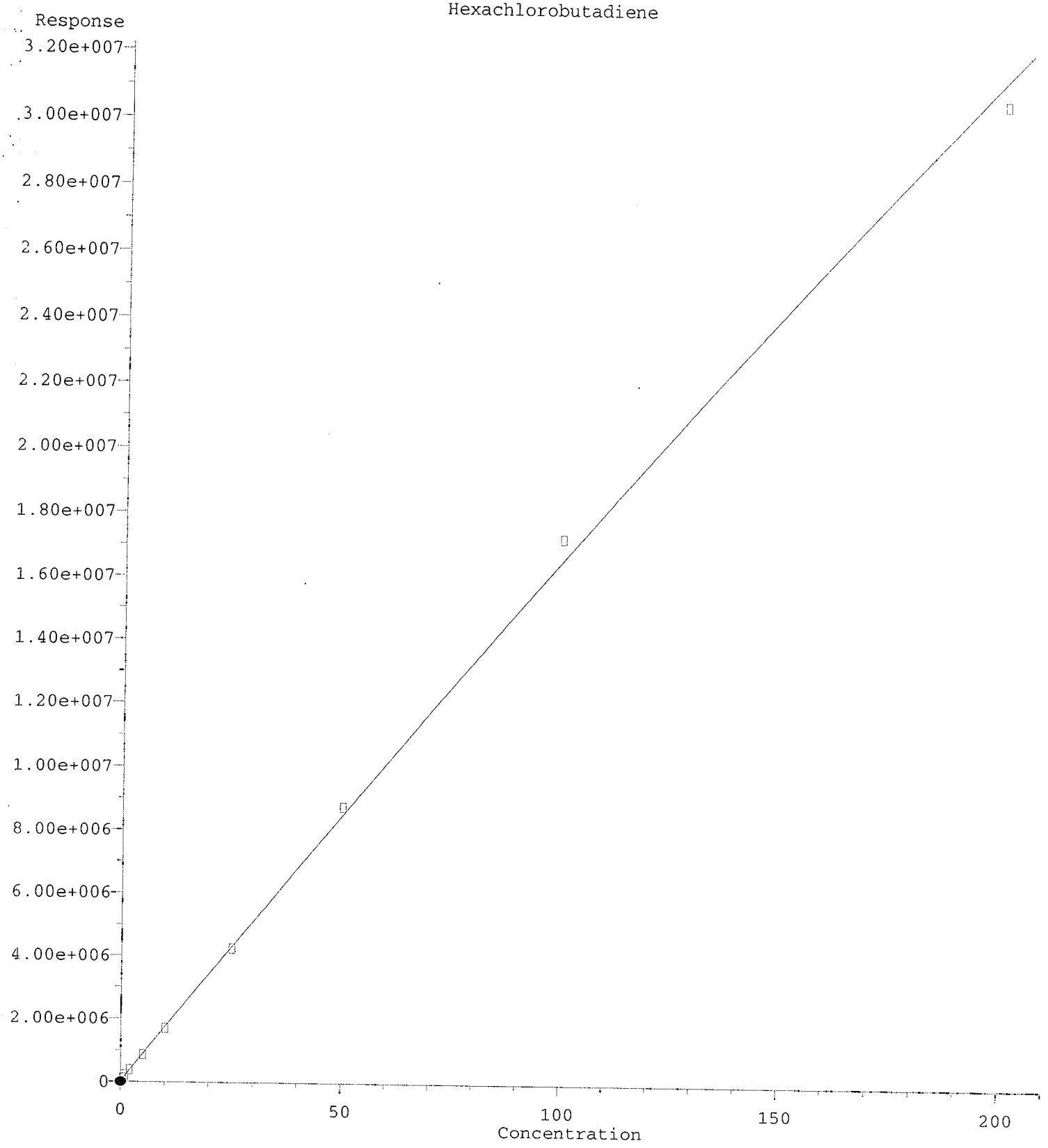
MJB 4/13/20

(22) DCBP (S) #2 (S)

10.658min 2280.071 ng/mL (m) QSM

response 1244

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:20:07 2020

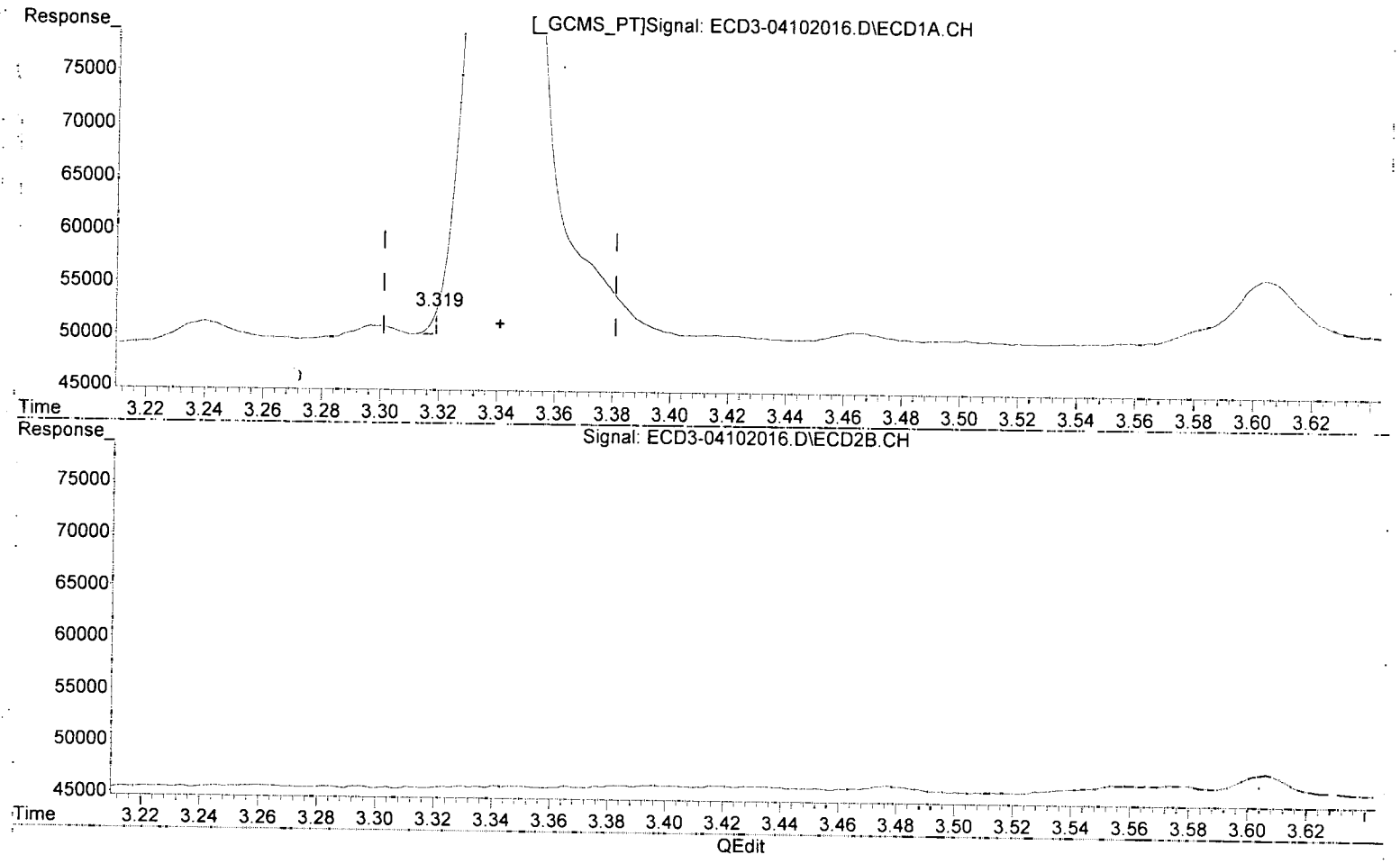


R = -8.22e+001 A*A + 1.73e+005 A + 2.80e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(23) Hexachlorobutadiene

3.319min 2108.689 ng/mL (m) QDCI

response 2256

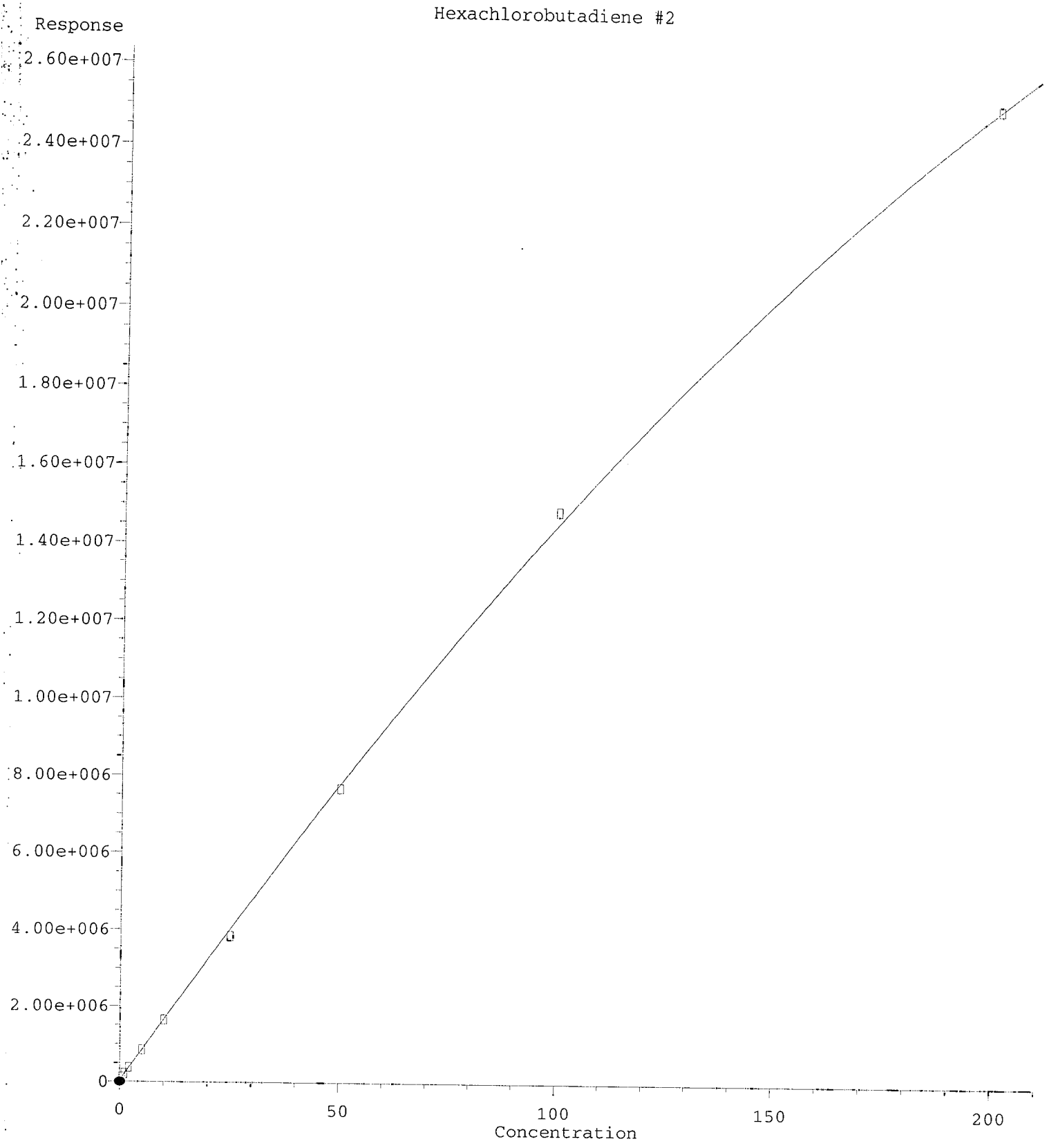
WB 4/13/20

(23) Hexachlorobutadiene #2

3.736min 0.479 ng/mL

response 112755

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:20:34 2020

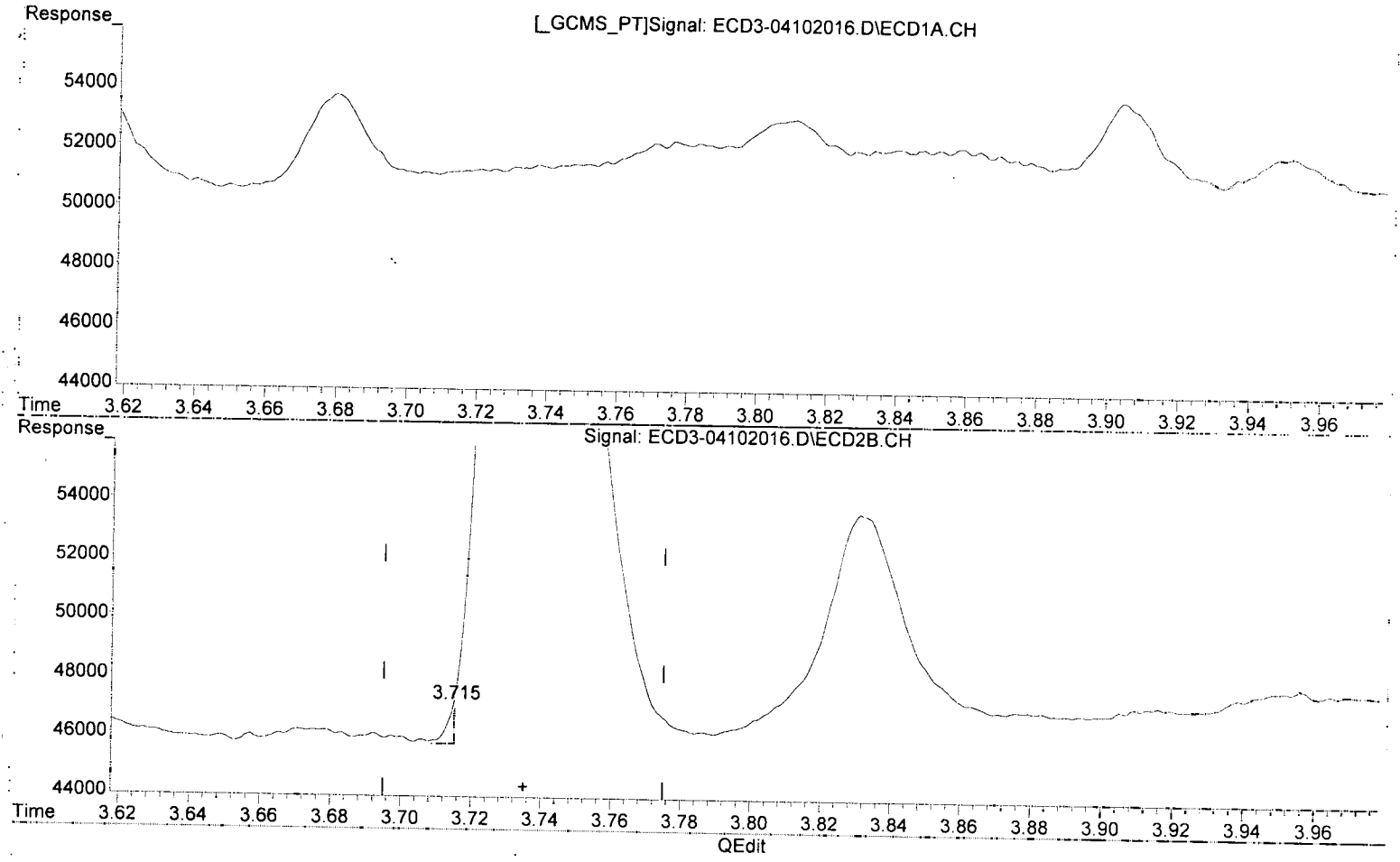


R = -1.96e+002 A*A + 1.05e+005 A + 5.39e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 12 10:24:05 2004

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(23) Hexachlorobutadiene

3.319min 2108.689 ng/mL m

response 2256

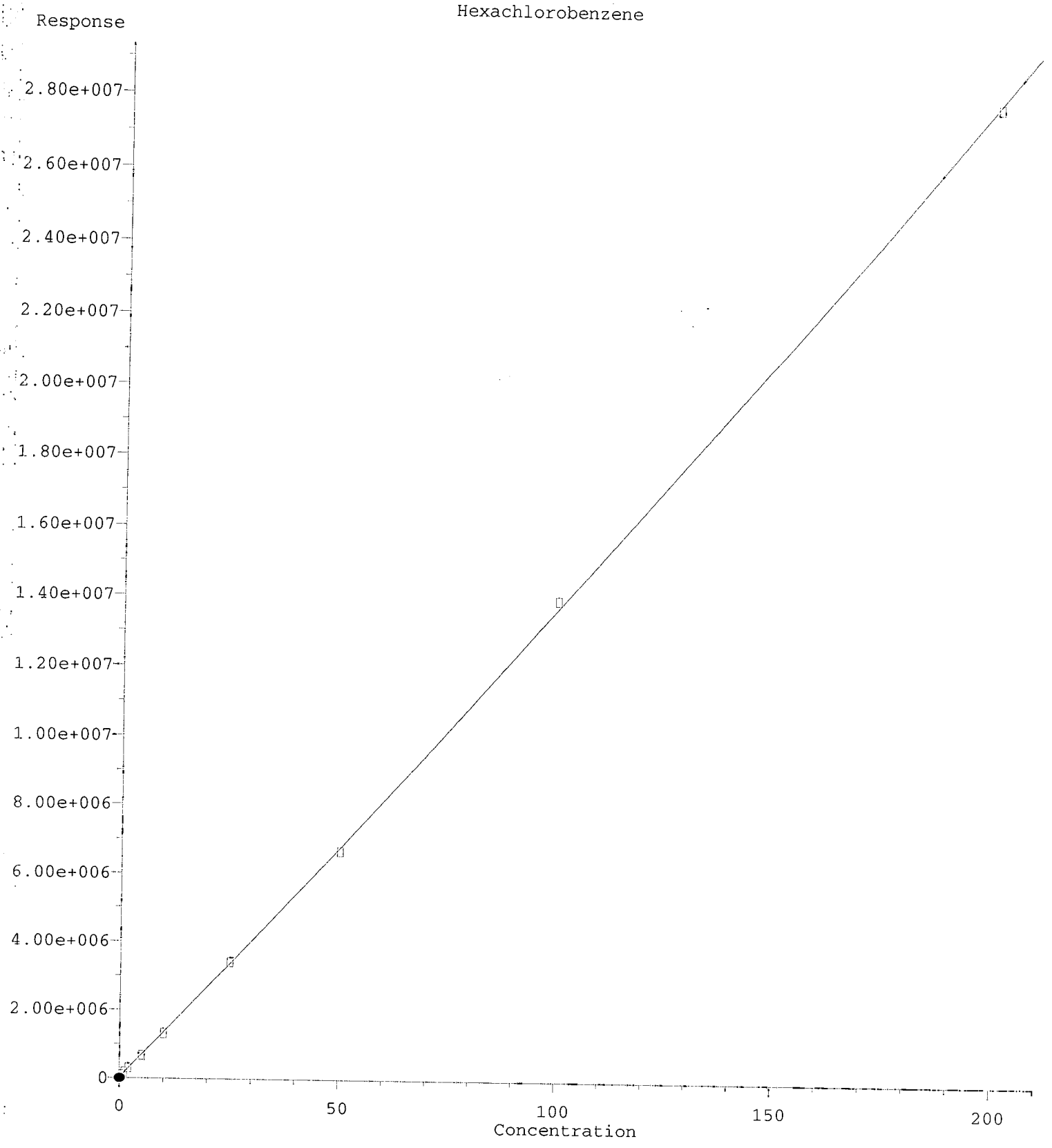
MP 4/13/20

(23) Hexachlorobutadiene #2

3.715min 838.069 ng/mL (m) 6x1

response 1371

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:20:52 2020

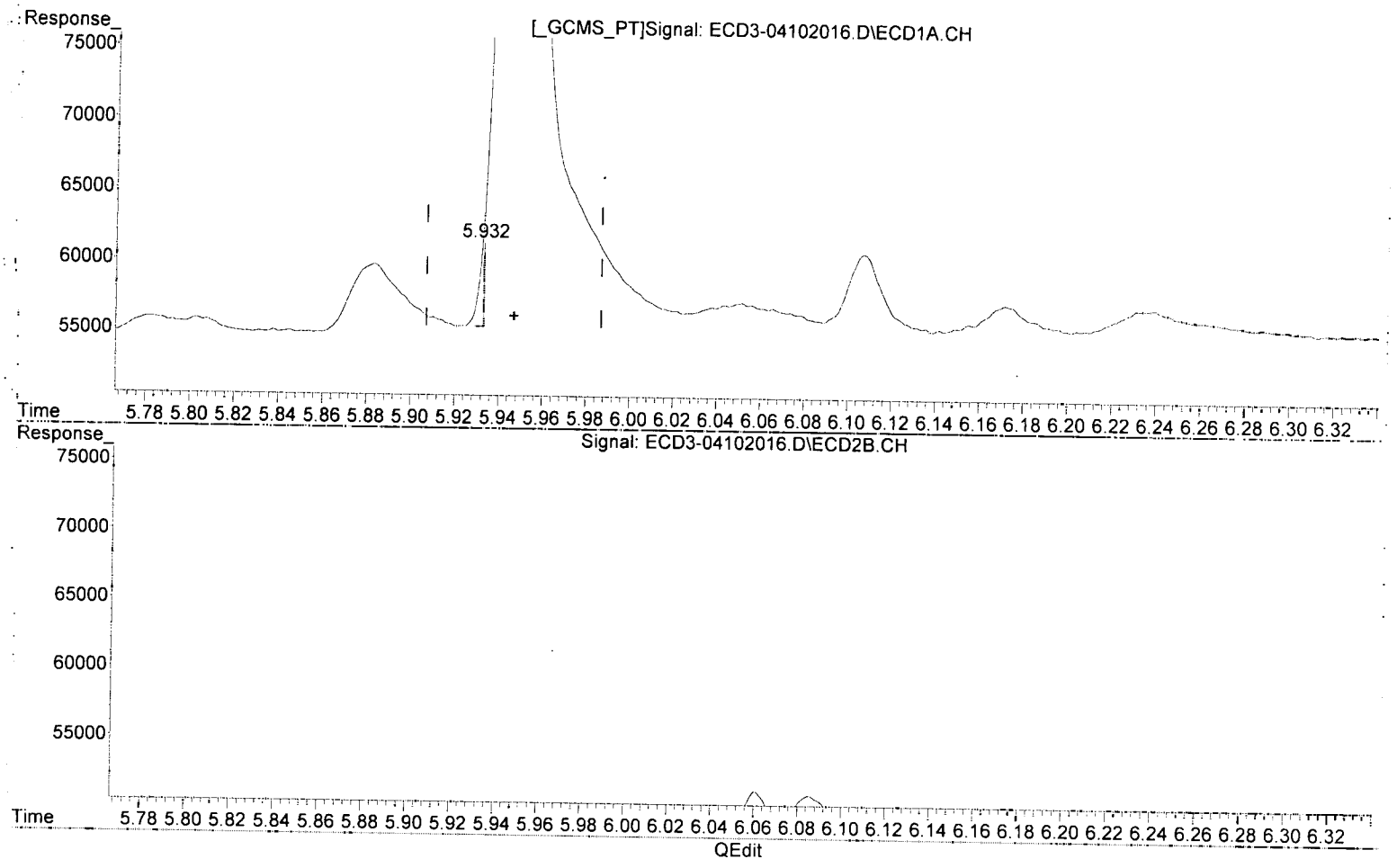


R = 3.47e+001 A*A + 1.33e+005 A + 2.70e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(24) Hexachlorobenzene

5.932min -0.158 ng/mL (m)

response 6011

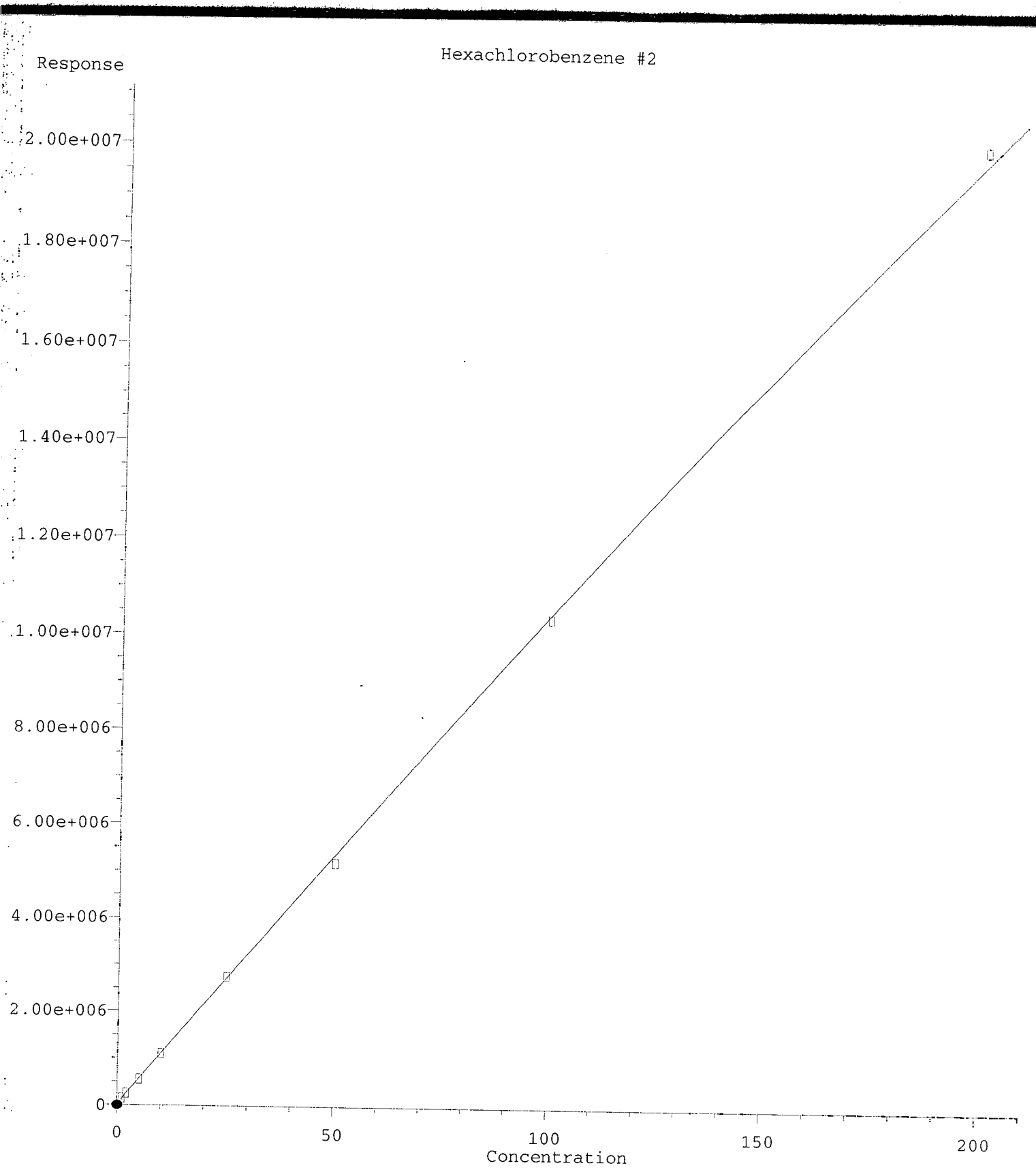
MJB 4/13/20

(24) Hexachlorobenzene #2

6.532min 0.478 ng/mL

response 78616

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:04 2020

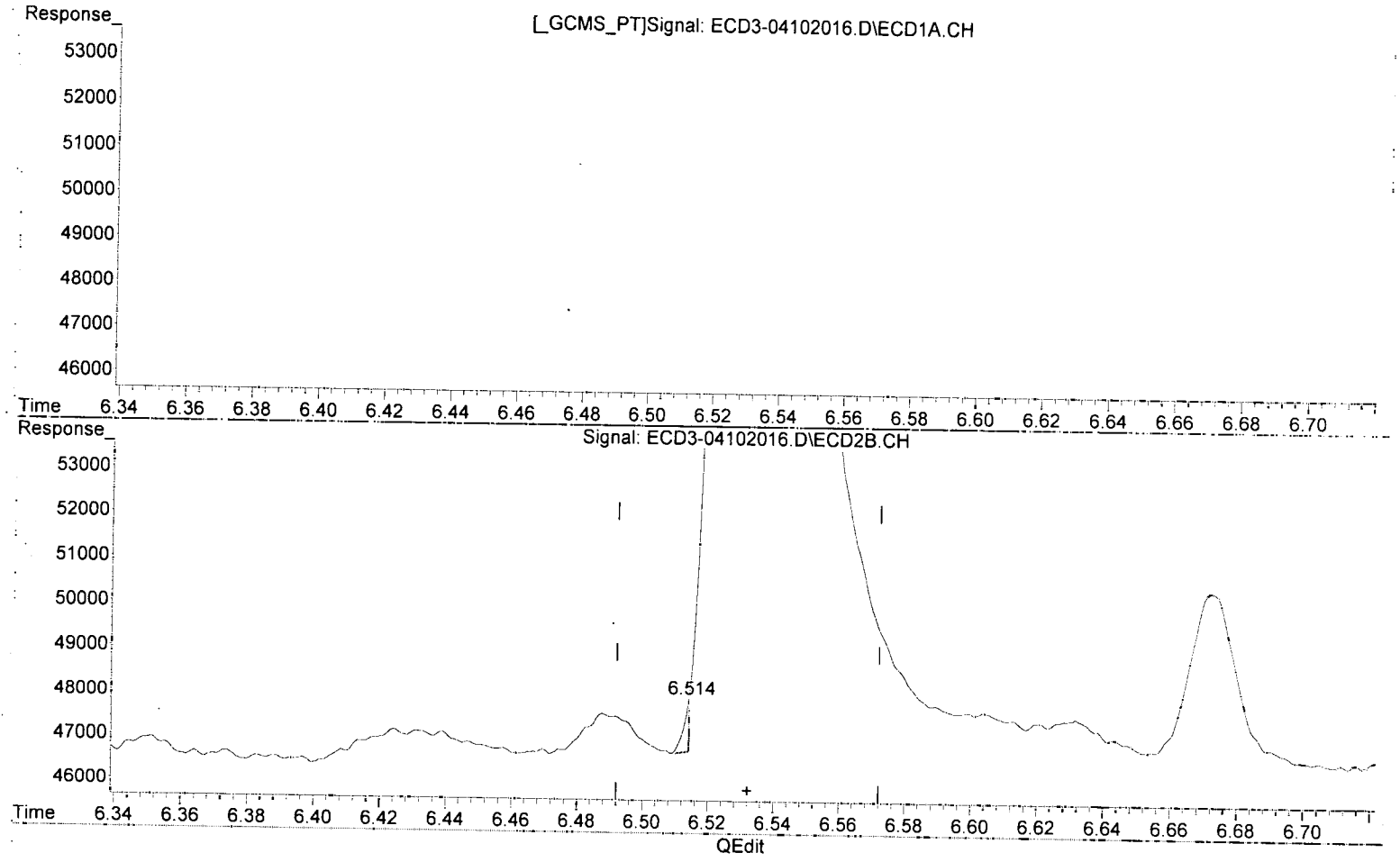


R = -4.96e+001 A*A + 1.09e+005 A + 2.66e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 12 10:24:25 2004

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(24) Hexachlorobenzene

5.932min -0.158 ng/mL m

response 6011

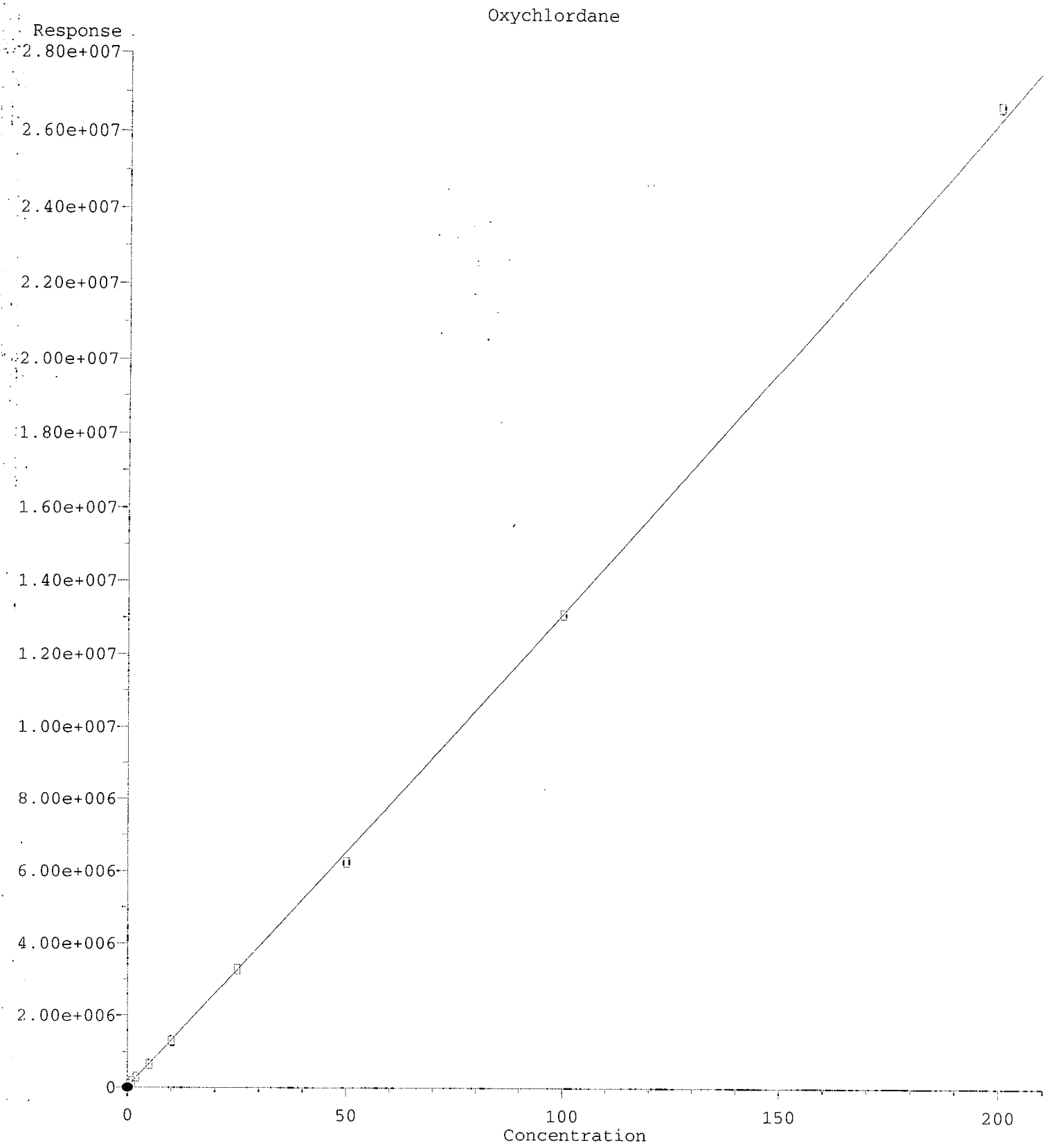
MJB 4/13/20

(24) Hexachlorobenzene #2

6.514min 2197.618 ng/mL m

response 1179

(+) = Expected Retention Time

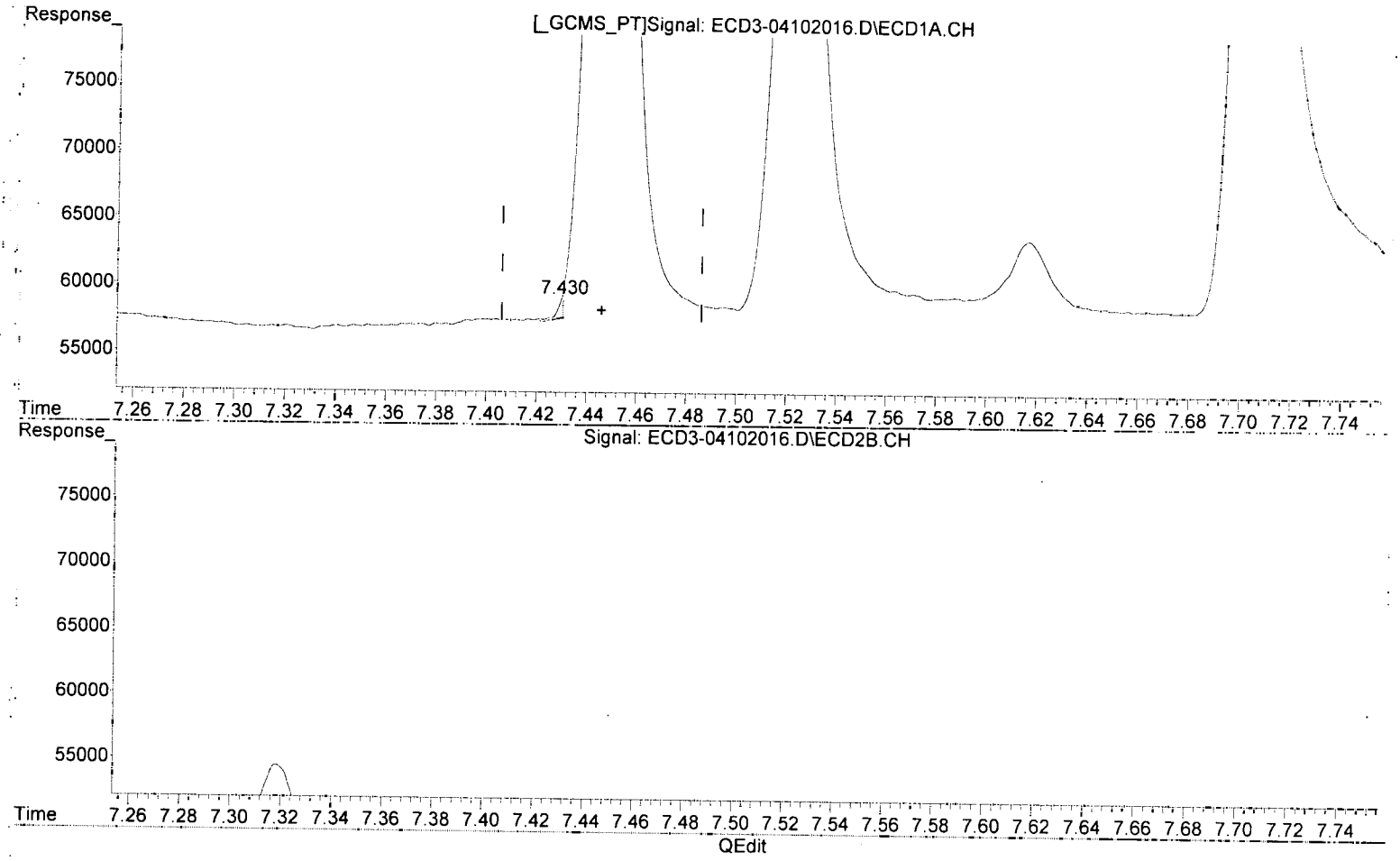


R = 1.19e+001 A*A + 1.29e+005 A + 2.59e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.430min -0.188 ng/mL (m)

response 1485

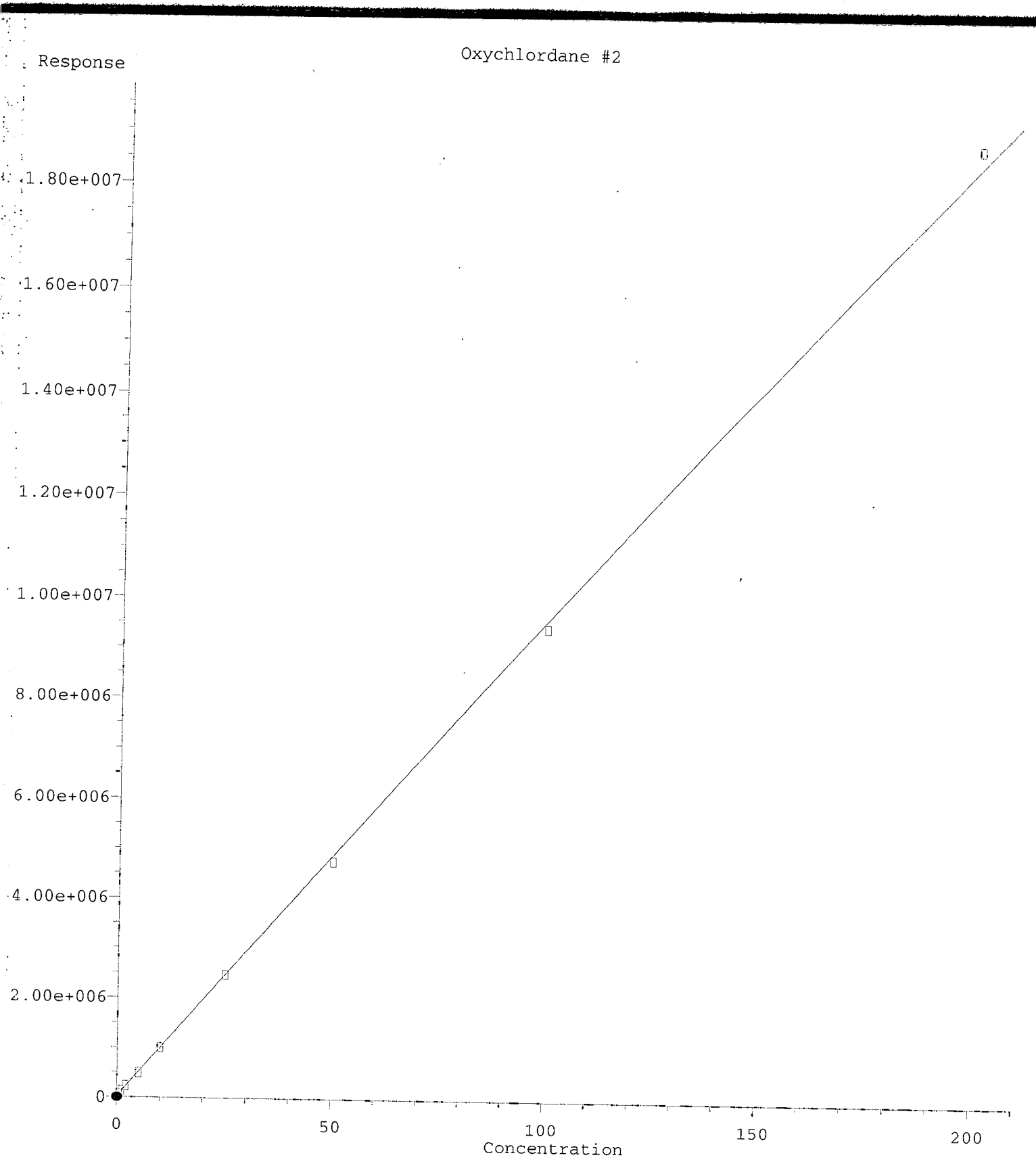
MJB 4/13/20

(25) Oxychlordane #2

8.010min 0.469 ng/mL

response 67961

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:25 2020

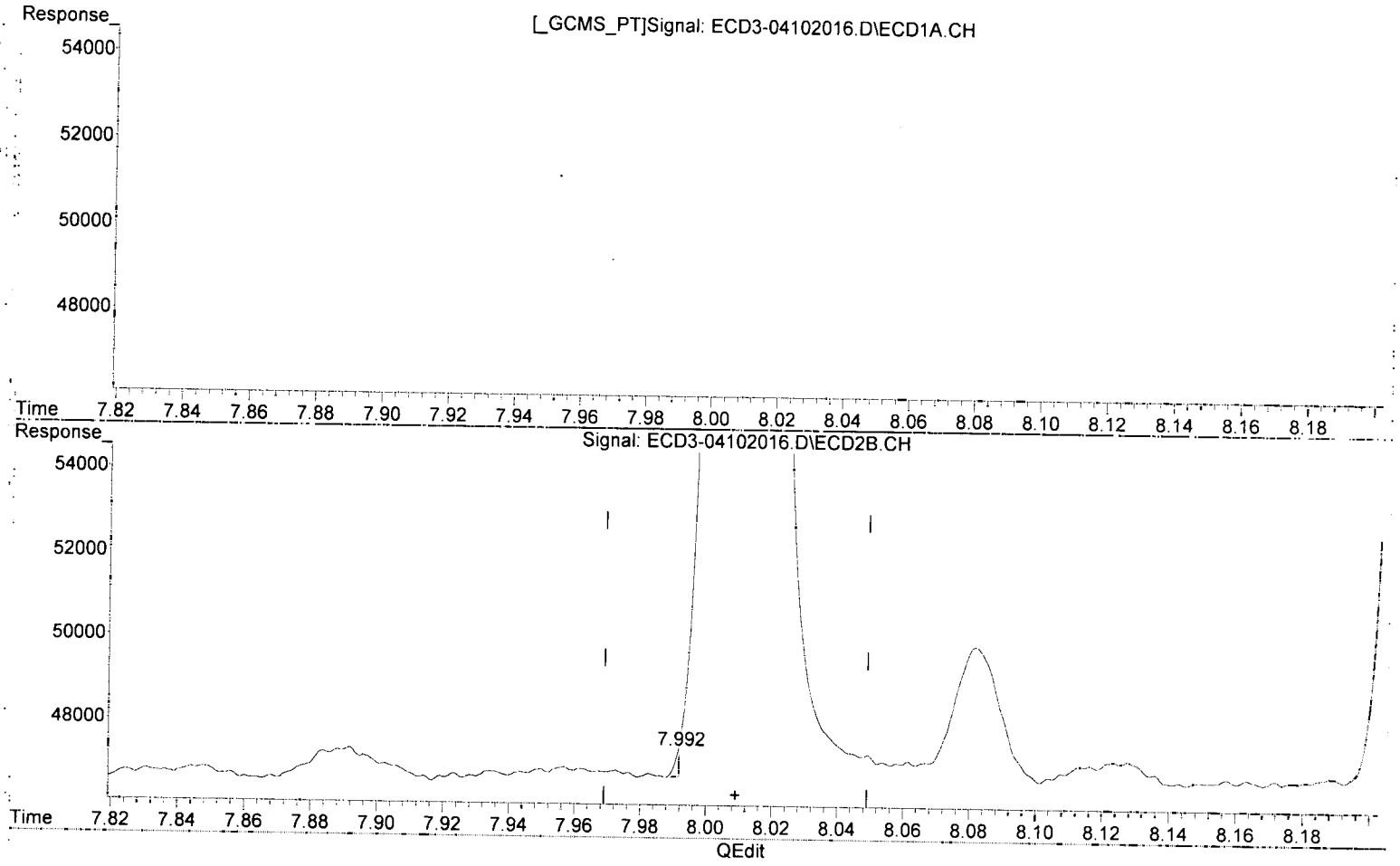


R = -3.01e+001 A*A + 9.87e+004 A + 2.17e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 12 18:04:25 2010

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.430min -0.188 ng/mL m

response 1485

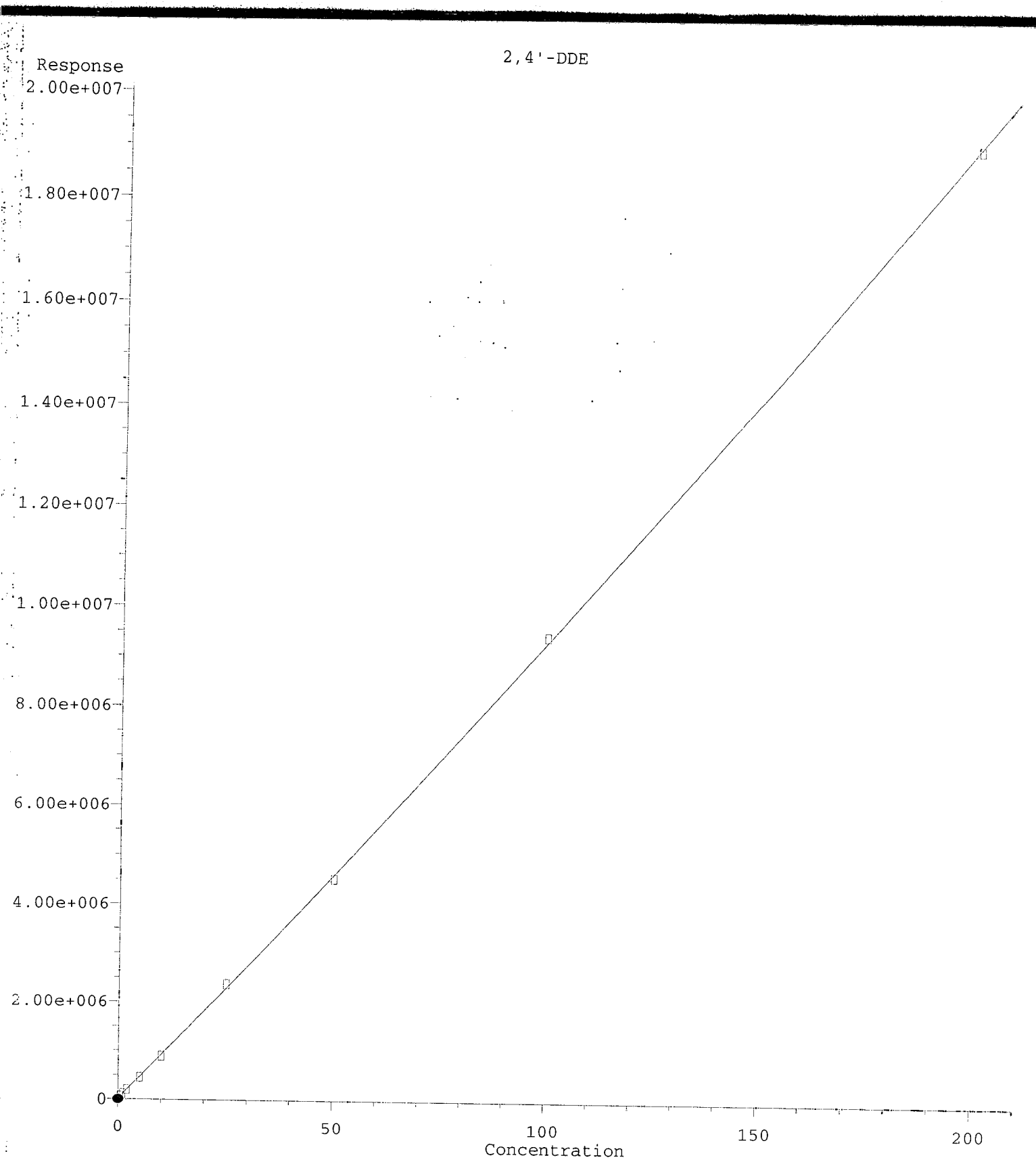
WD 4/13/20

(25) Oxychlordane #2

7.992min 3277.731 ng/mL (m) R-Del

response 640

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:34 2020 Page: 1

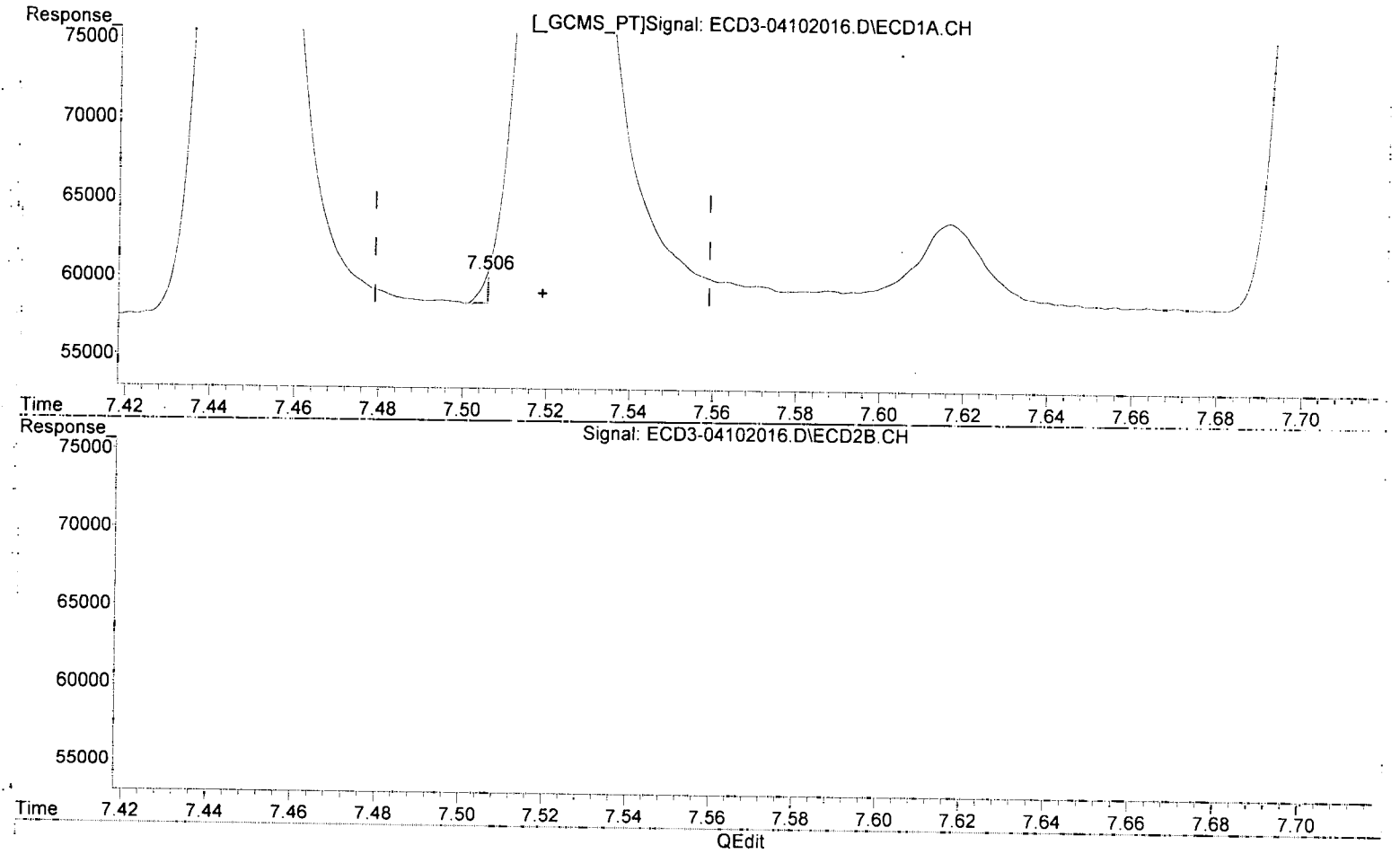


R = 2.80e+001 A*A + 9.02e+004 A + 1.65e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.506min -0.162 ng/mL (m)

response 1866

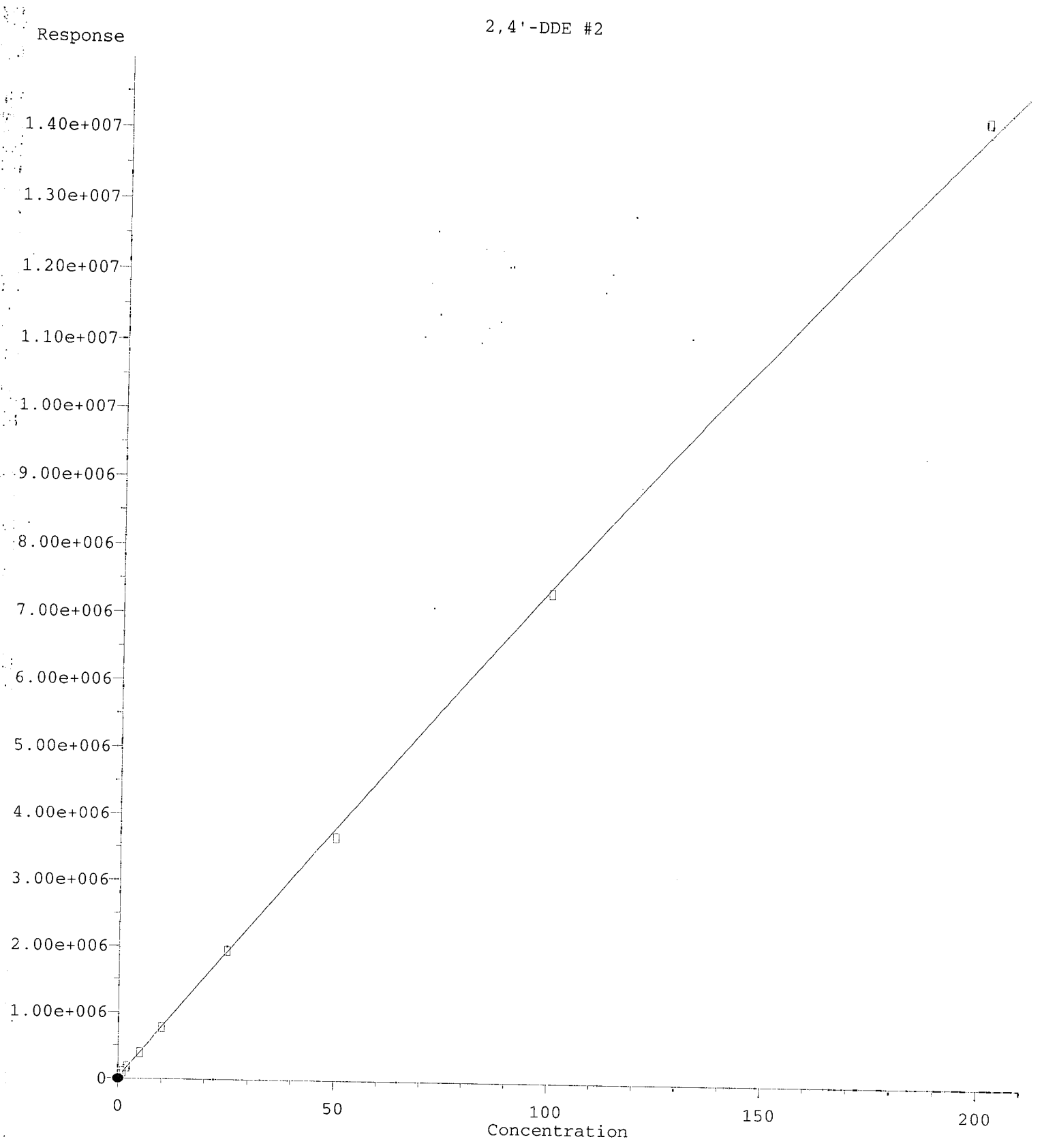
MJB 4/13/20

(26) 2,4'-DDE #2

8.216min 0.477 ng/mL

response 54754

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:49 2020

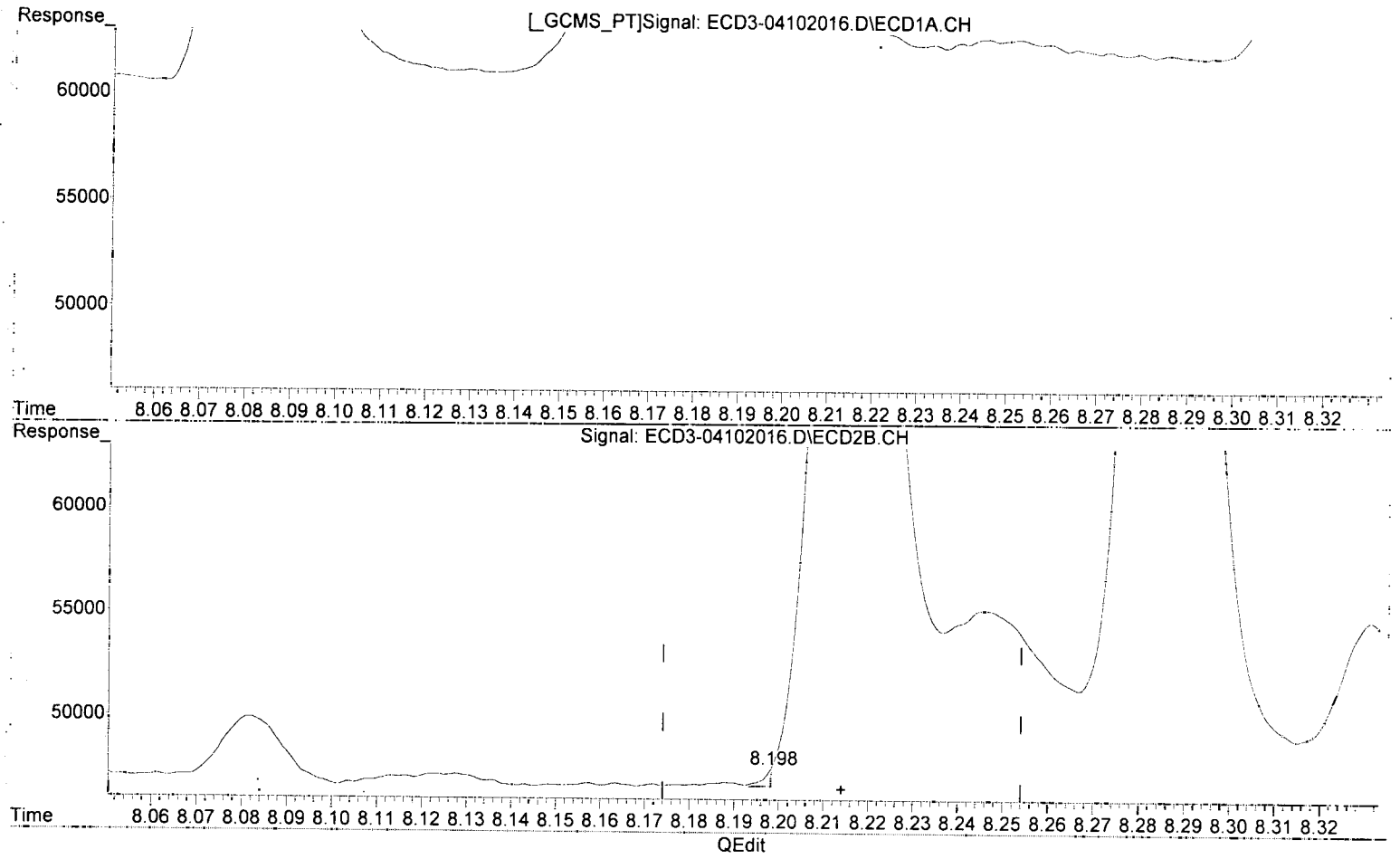


R = -3.61e+001 A*A + 7.74e+004 A + 1.79e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.506min -0.162 ng/mL m

response 1866

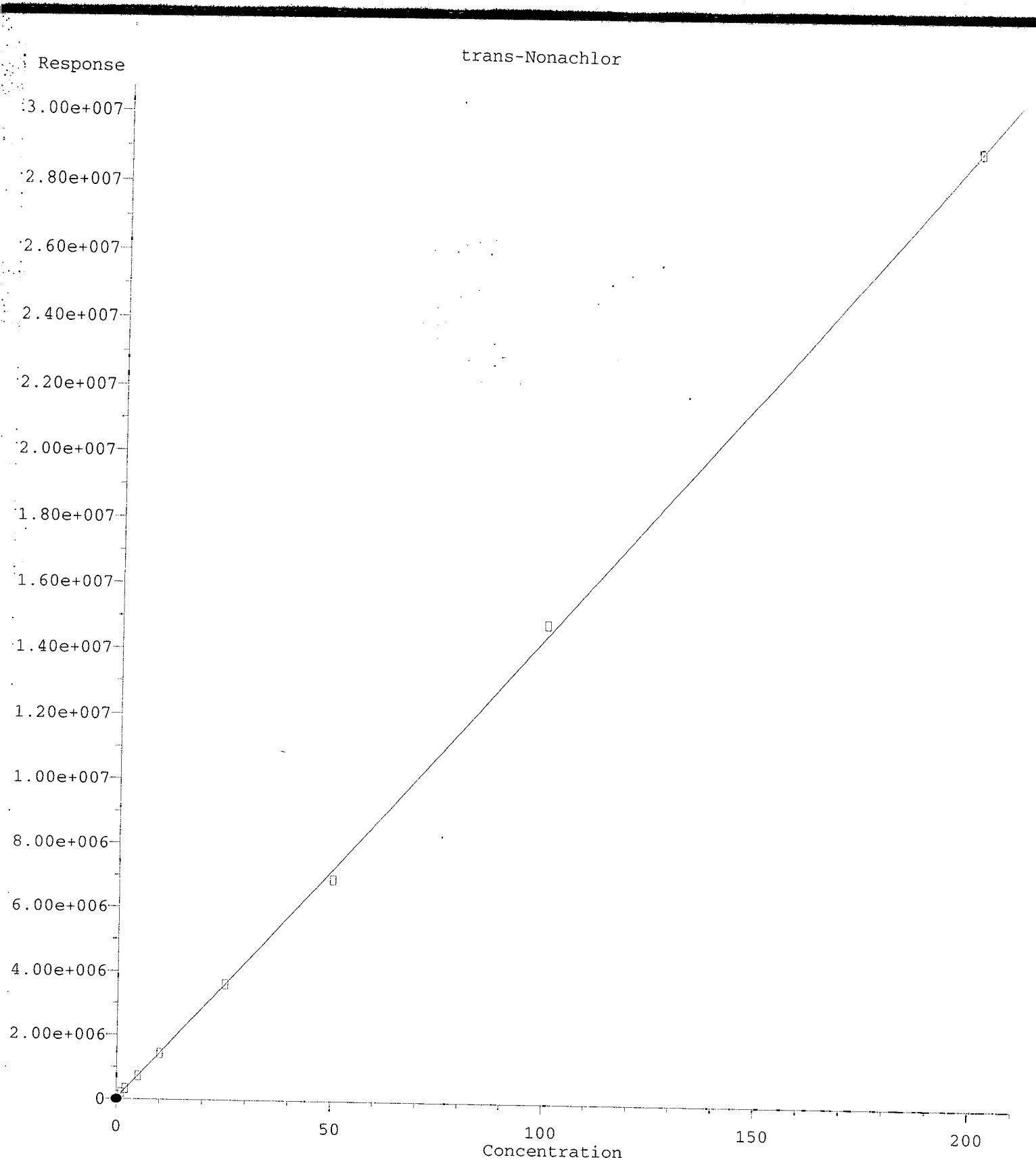
MJB 4/14/20

(26) 2,4'-DDE #2

8.198min 2144.972 ng/mL (m) QPC

response 858

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:21:58 2020

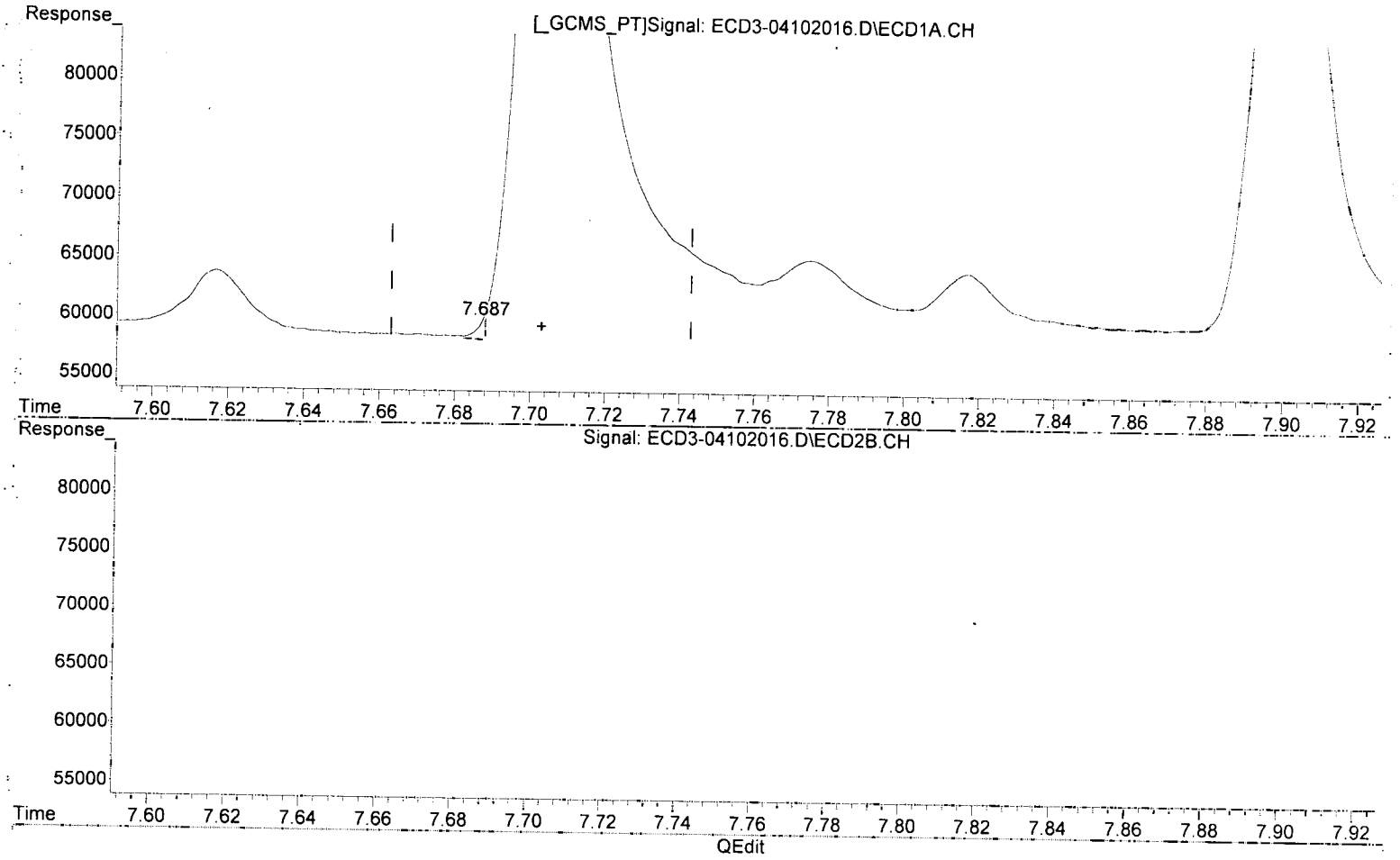


R = 1.52e+001 A*A + 1.43e+003 A + 2.99e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: [illegible]

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.687min -0.197 ng/mL (m)

response 1724

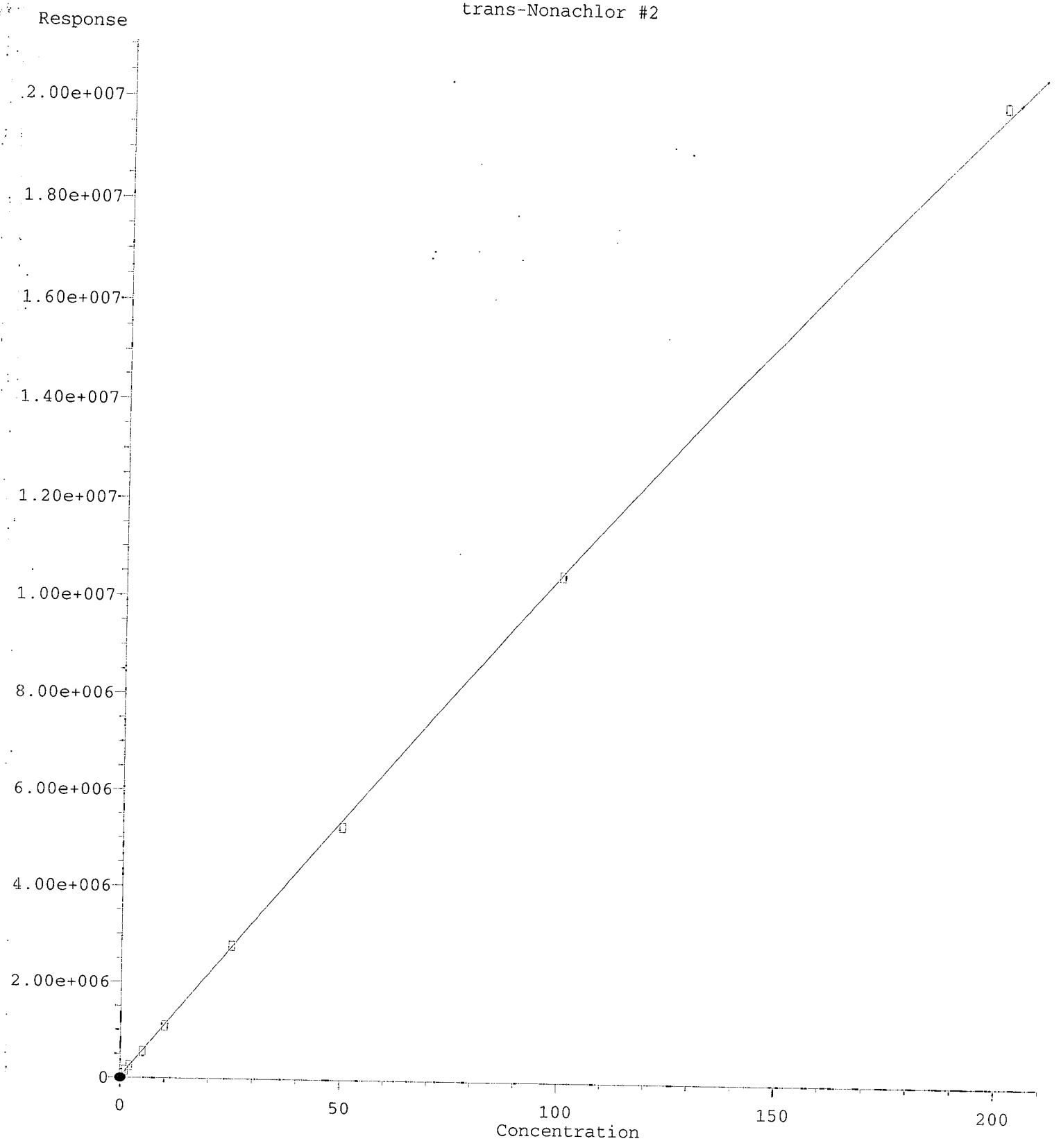
MJB 4/13/20

(27) trans-Nonachlor #2

8.287min 0.474 ng/mL

response 76561

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:08 2020 Page: 1

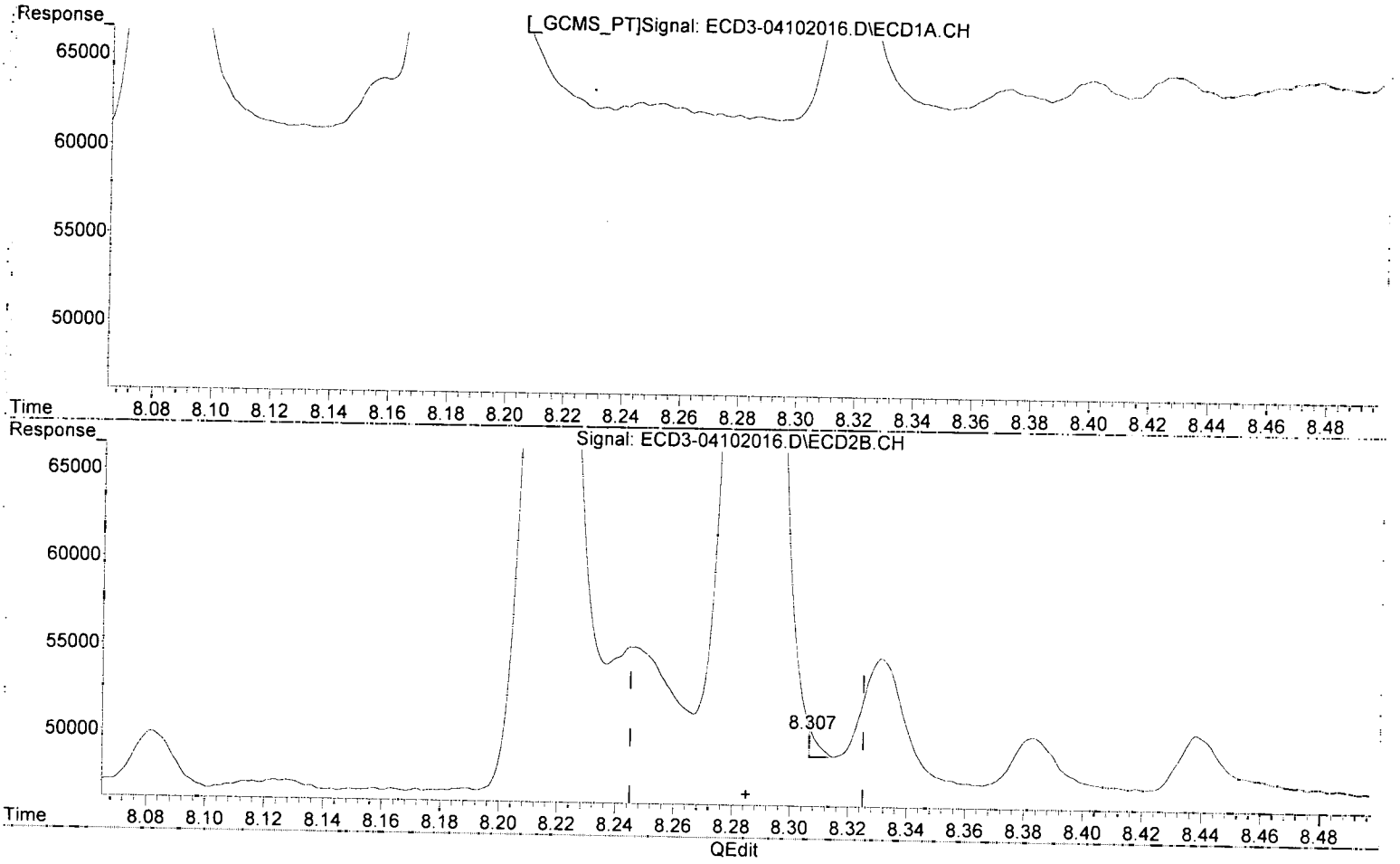


R = -5.65e+001 A*A + 1.10e+005 A + 2.43e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: [illegible]

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.687min -0.197 ng/mL m

response 1724

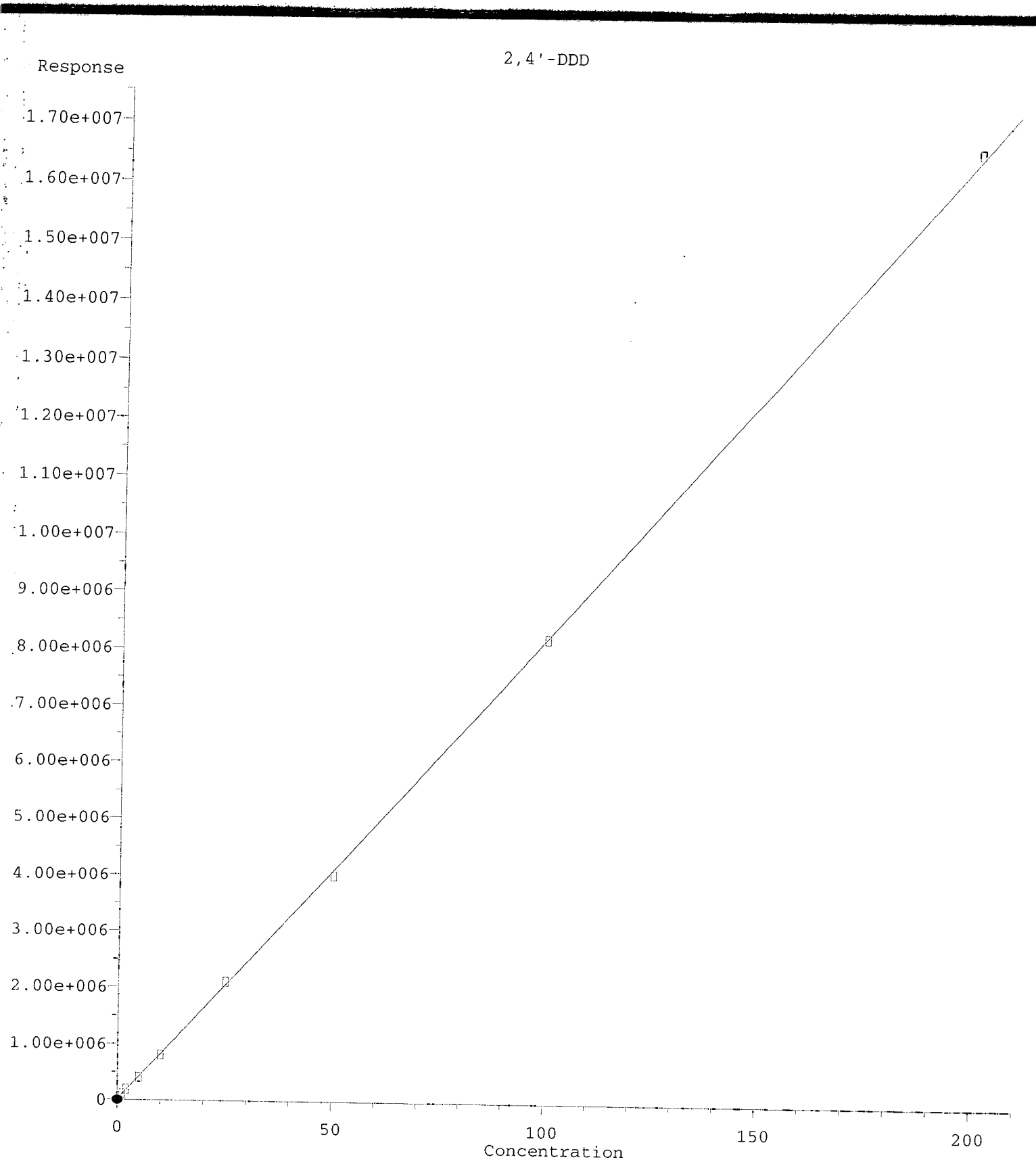
MJB 4/13/20

(27) trans-Nonachlor #2

8.307min 1953.548 ng/mL m QDel

response 1736

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:18 2020

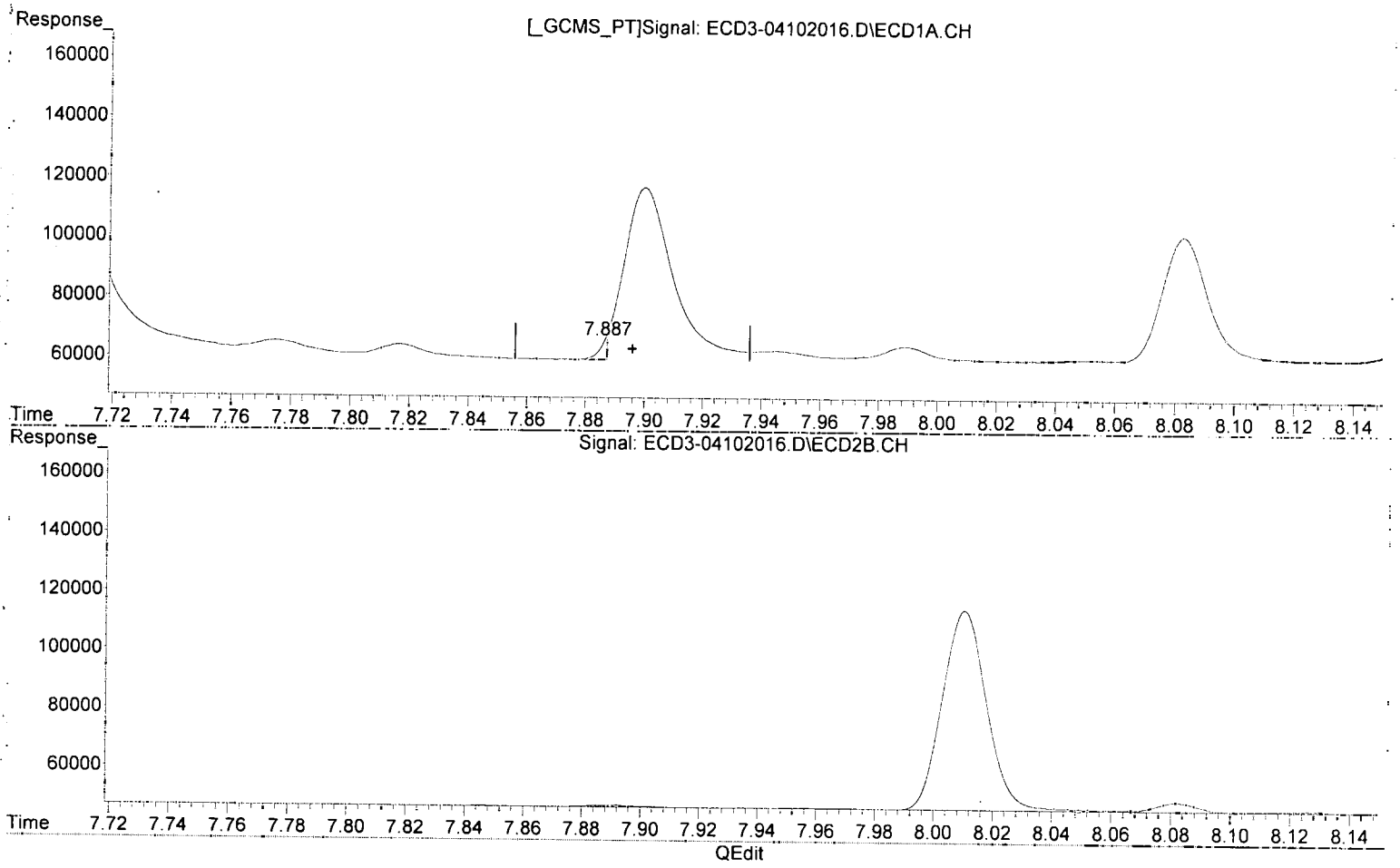


R = 7.03e+000 A*A + 8.14e+004 A + 1.78e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.887min -0.136 ng/mL (m)

response 6674

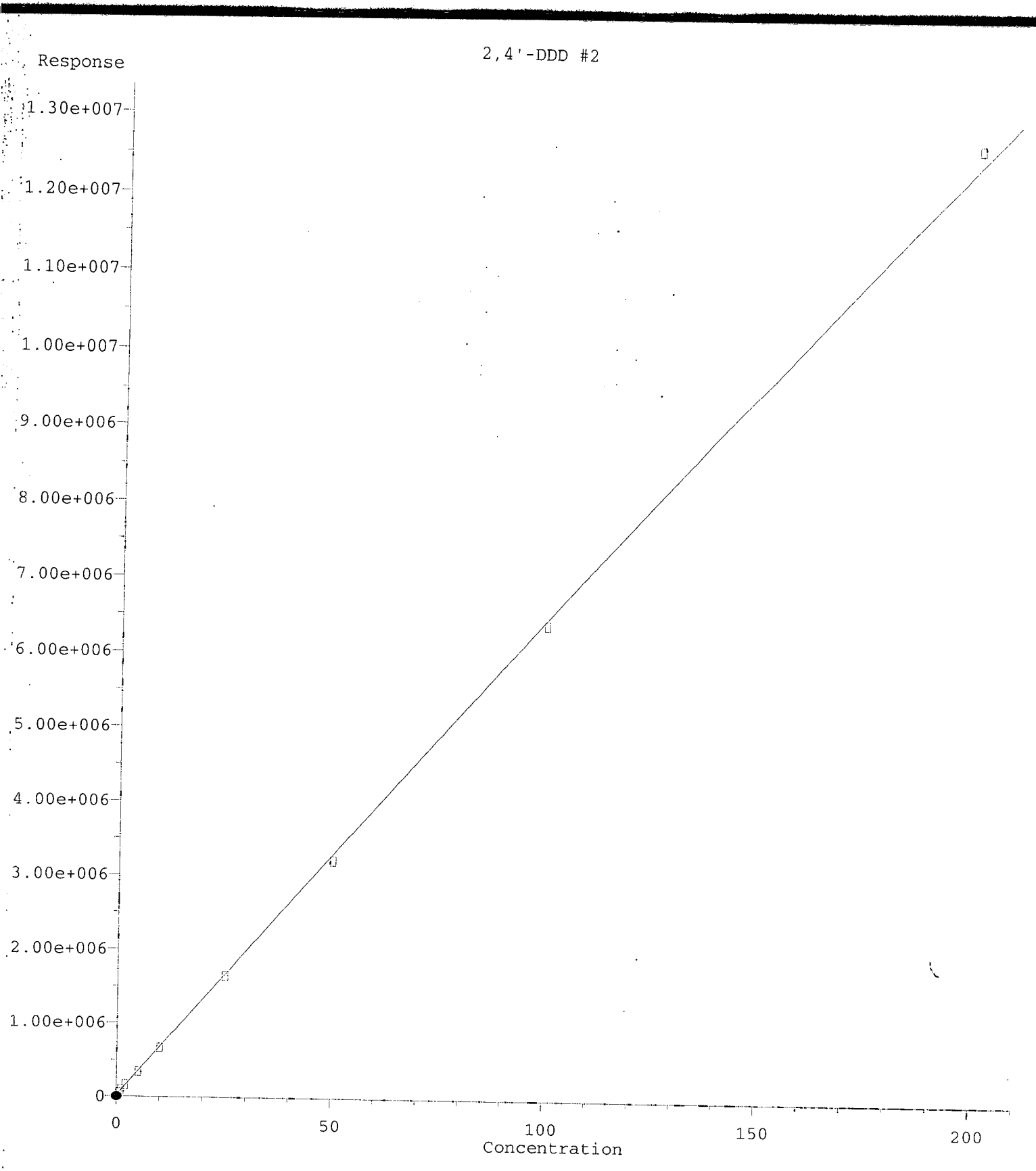
MJB 4/13/20

(28) 2,4'-DDD #2

8.592min 0.469 ng/mL

response 50583

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:28 2020

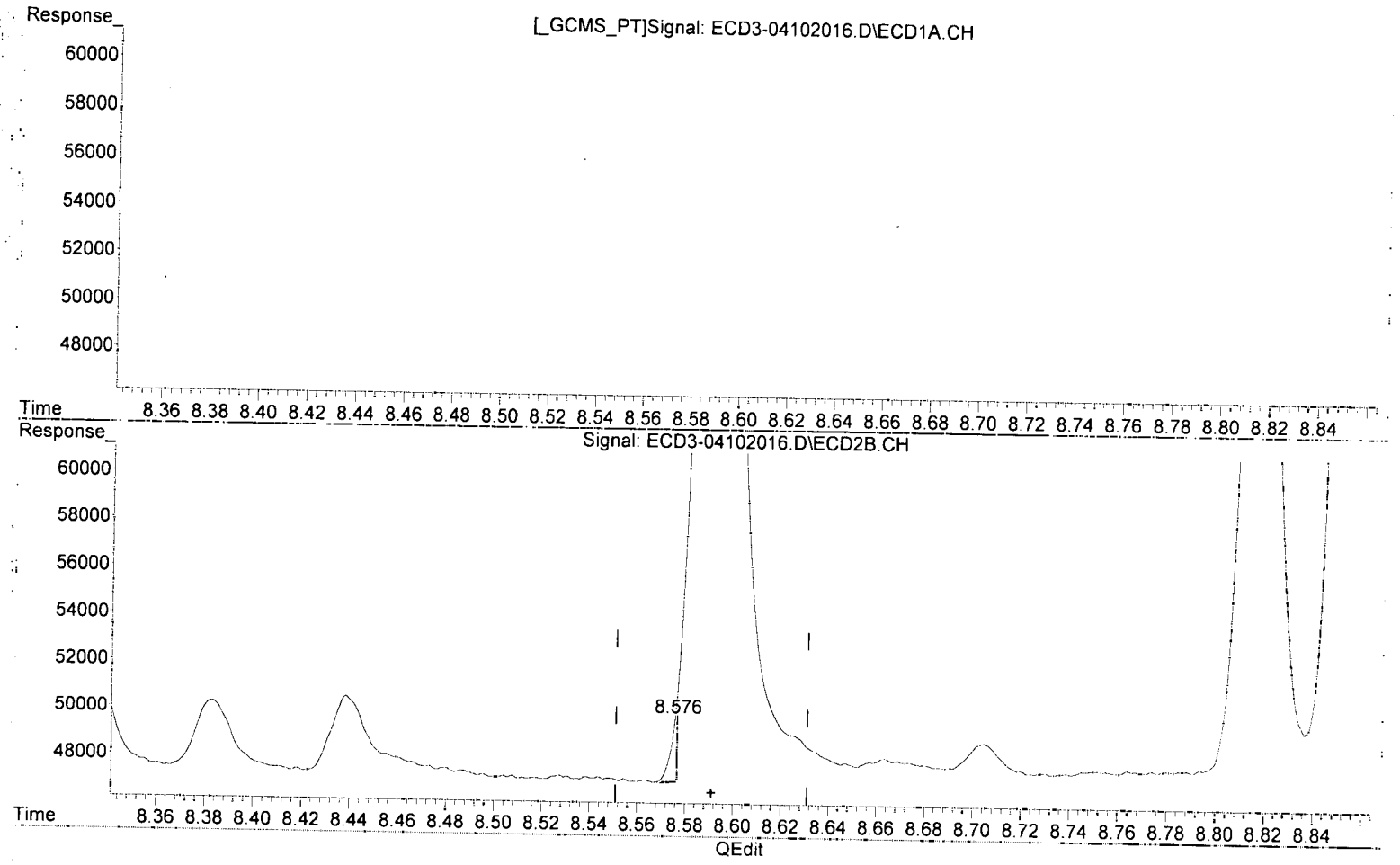


R = -2.10e+001 A*A + 6.66e+004 A + 1.93e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 12 12:04:05 2010

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.887min -0.136 ng/mL m

response 6674

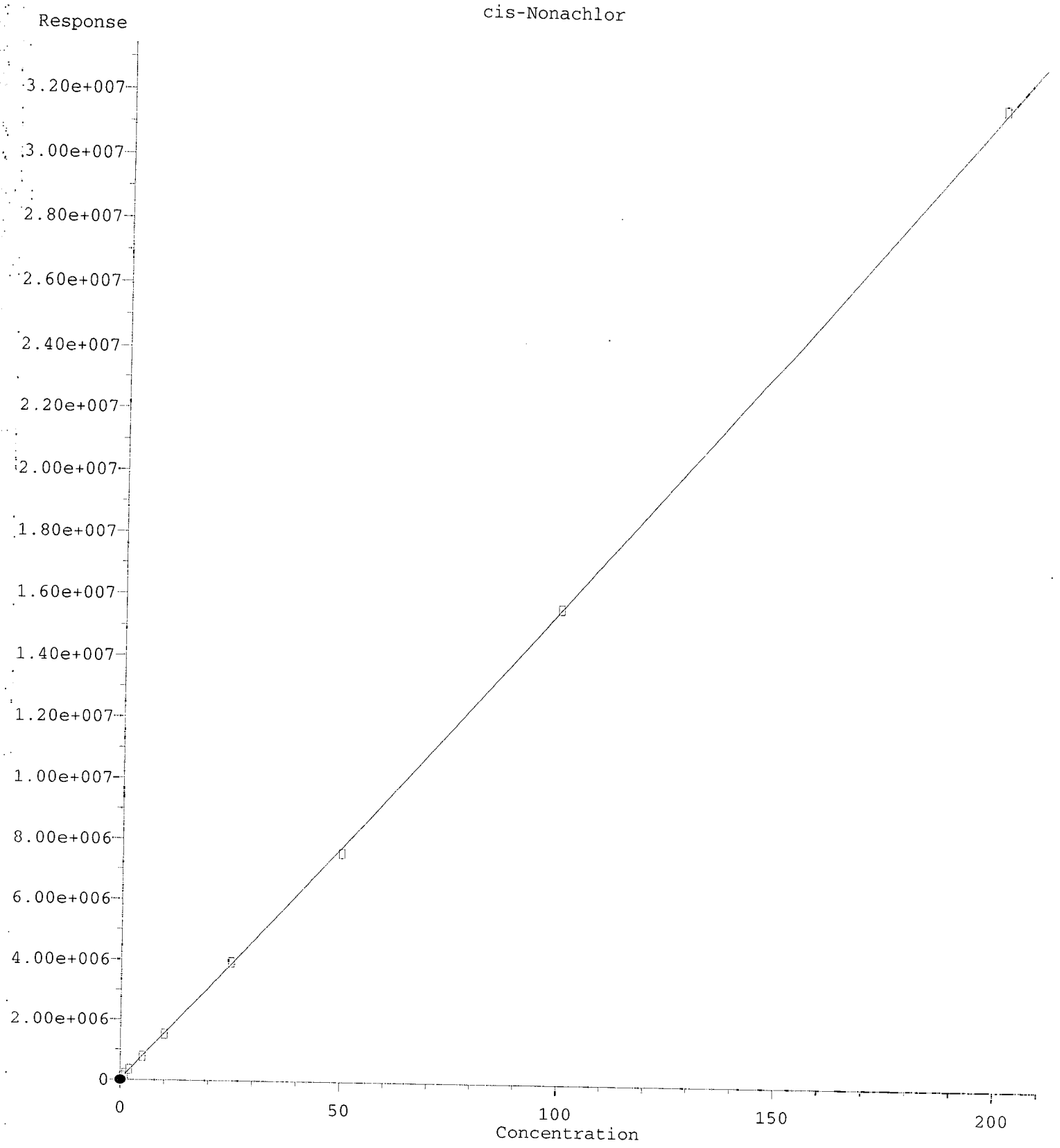
MJB 4/13/20

(28) 2,4'-DDD #2

8.576min 3167.846 ng/mL (m) Q21

response 2727

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:37 2020

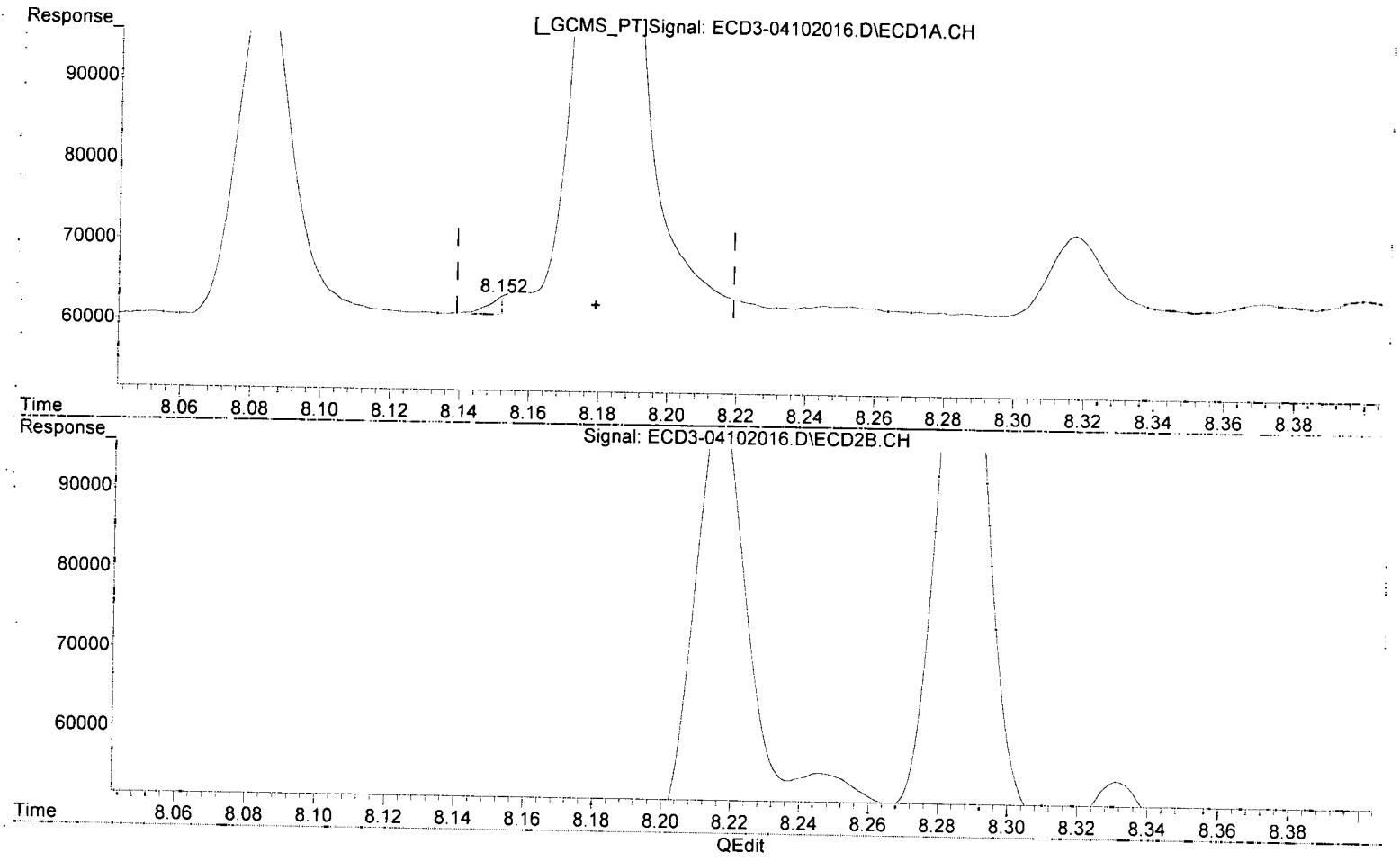


R = 2.59e+001 A*A + 1.53e+003 A + 3.24e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated:

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.152min -0.197 ng/mL (m)

response 2263

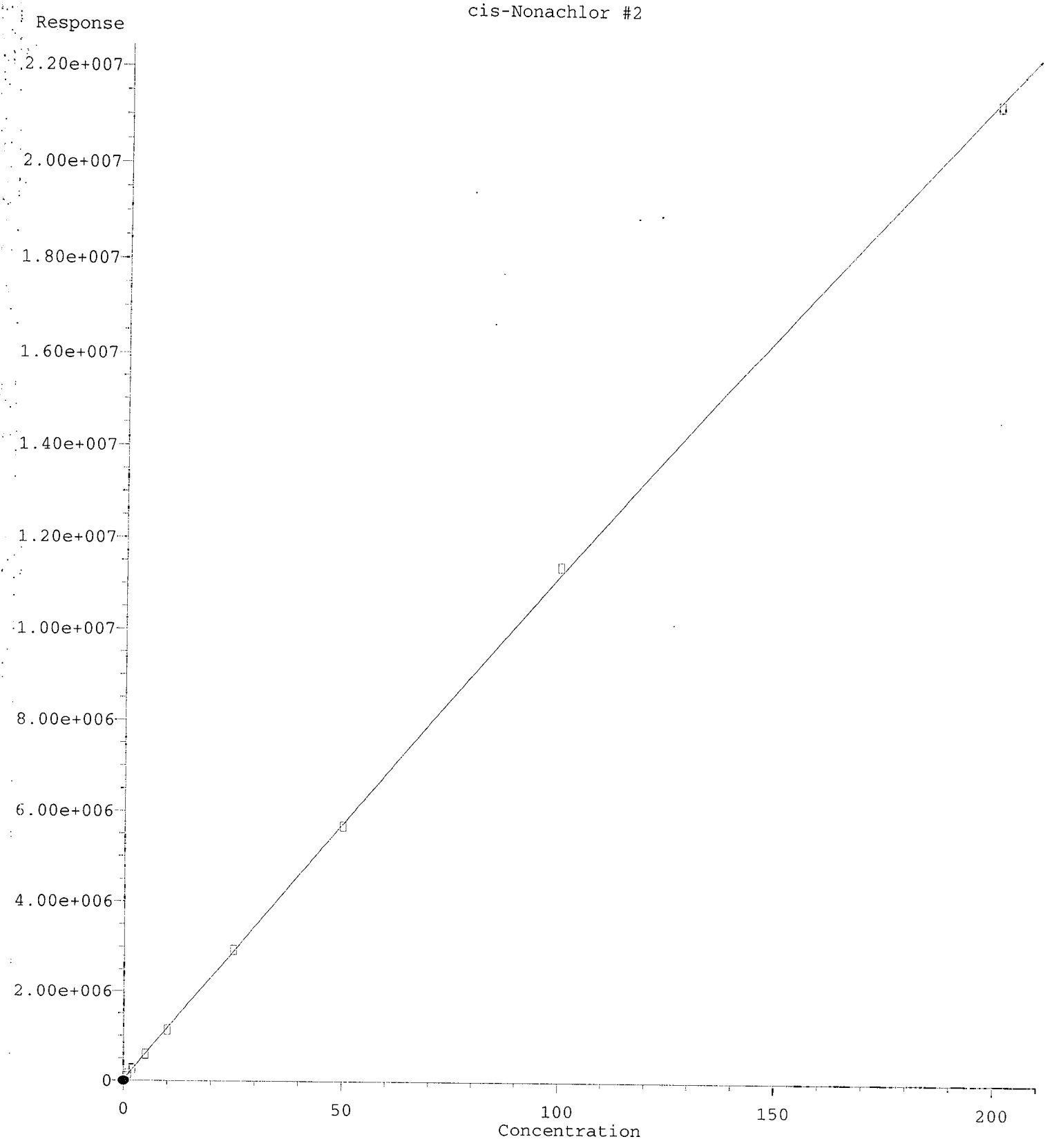
MJB 4/13/20

(30) cis-Nonachlor #2

8.857min 0.480 ng/mL

response 83146

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:22:48 2020

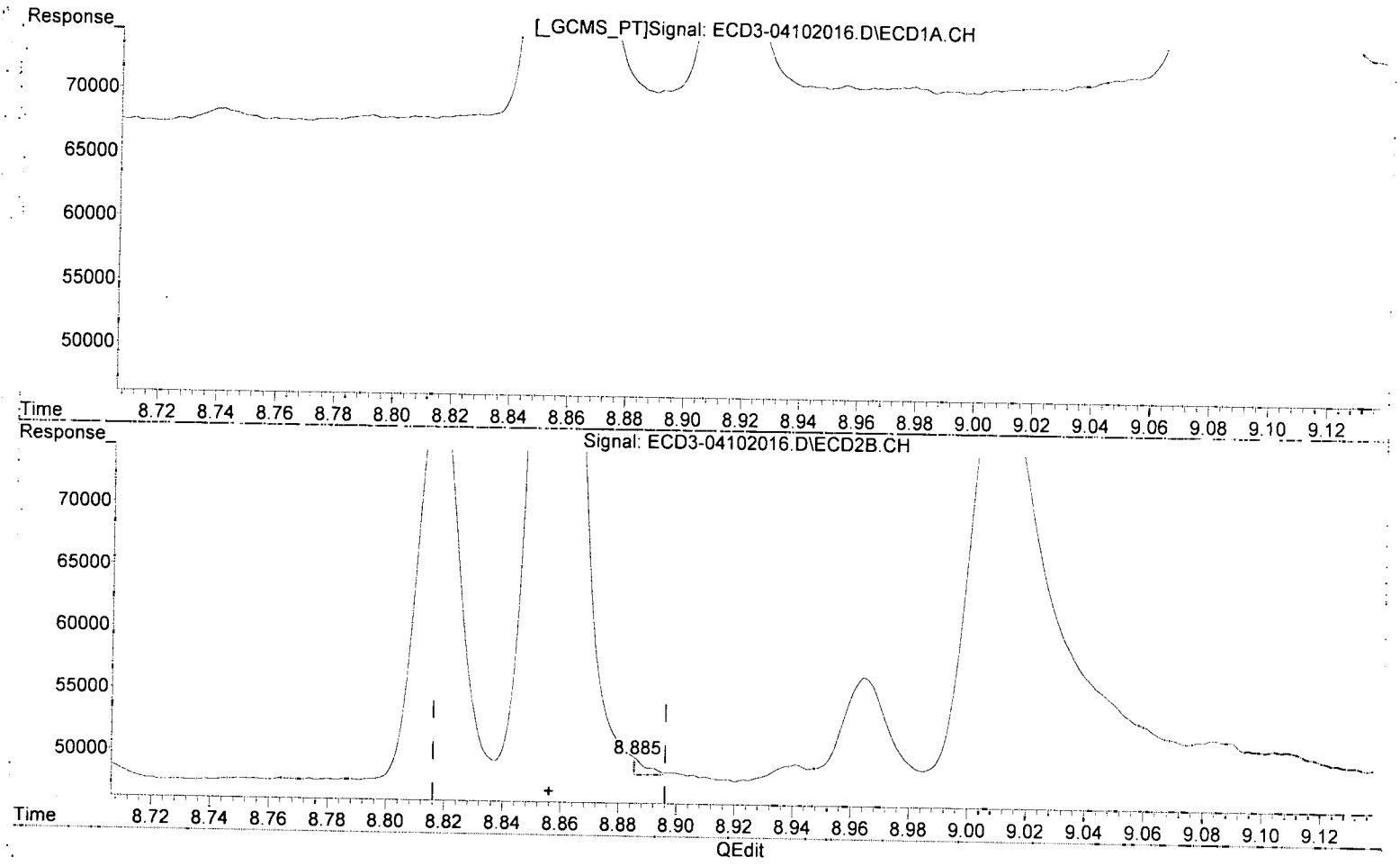


R = -4.56e+001 A*A + 1.16e+005 A + 2.73e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(30) cis-Nonachlor

8.152min -0.197 ng/mL m

response 2263

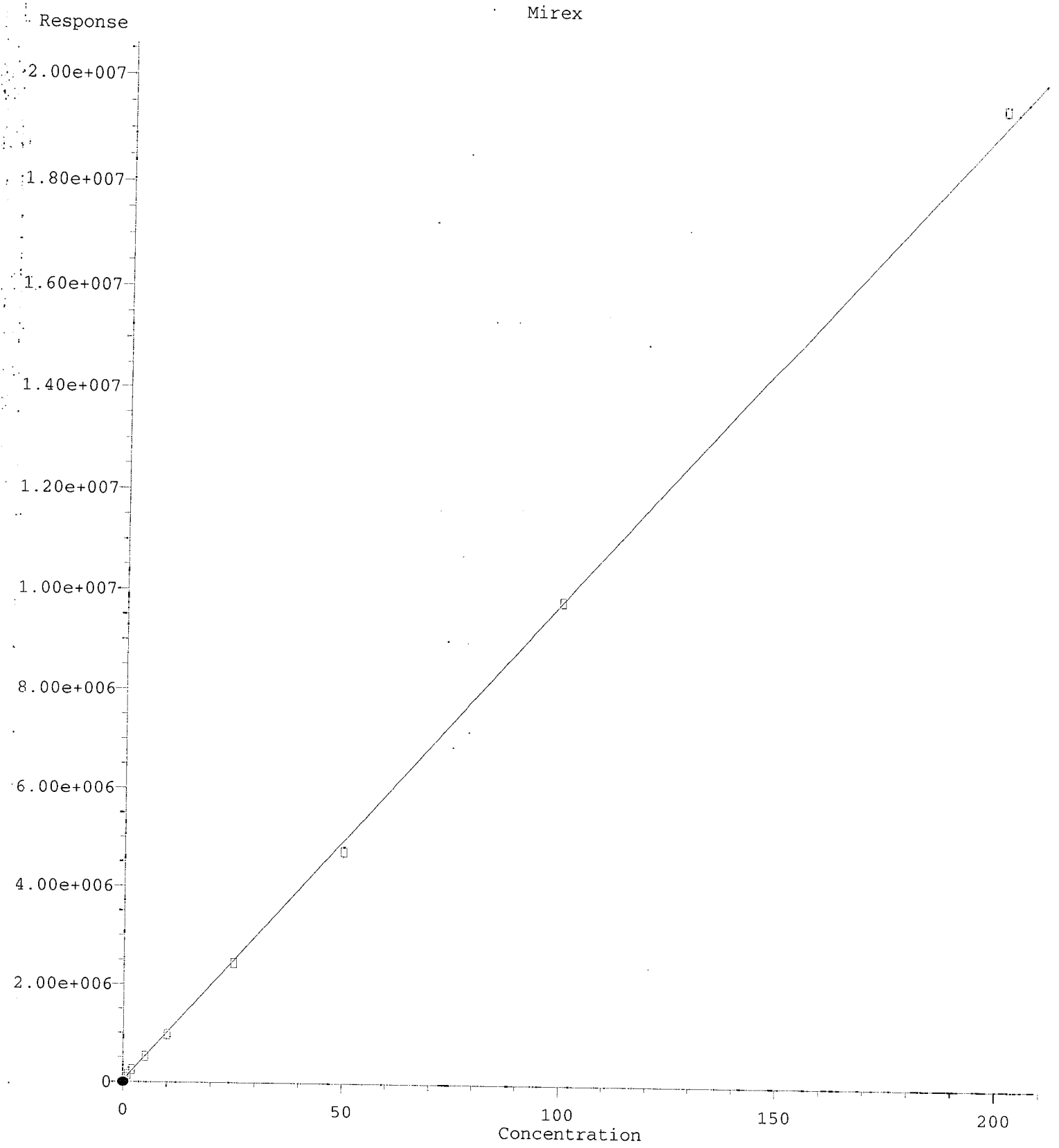
WB 4/13/20

(30) cis-Nonachlor #2

8.885min 2549.548 ng/mL m

response 1368

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:23:01 2020

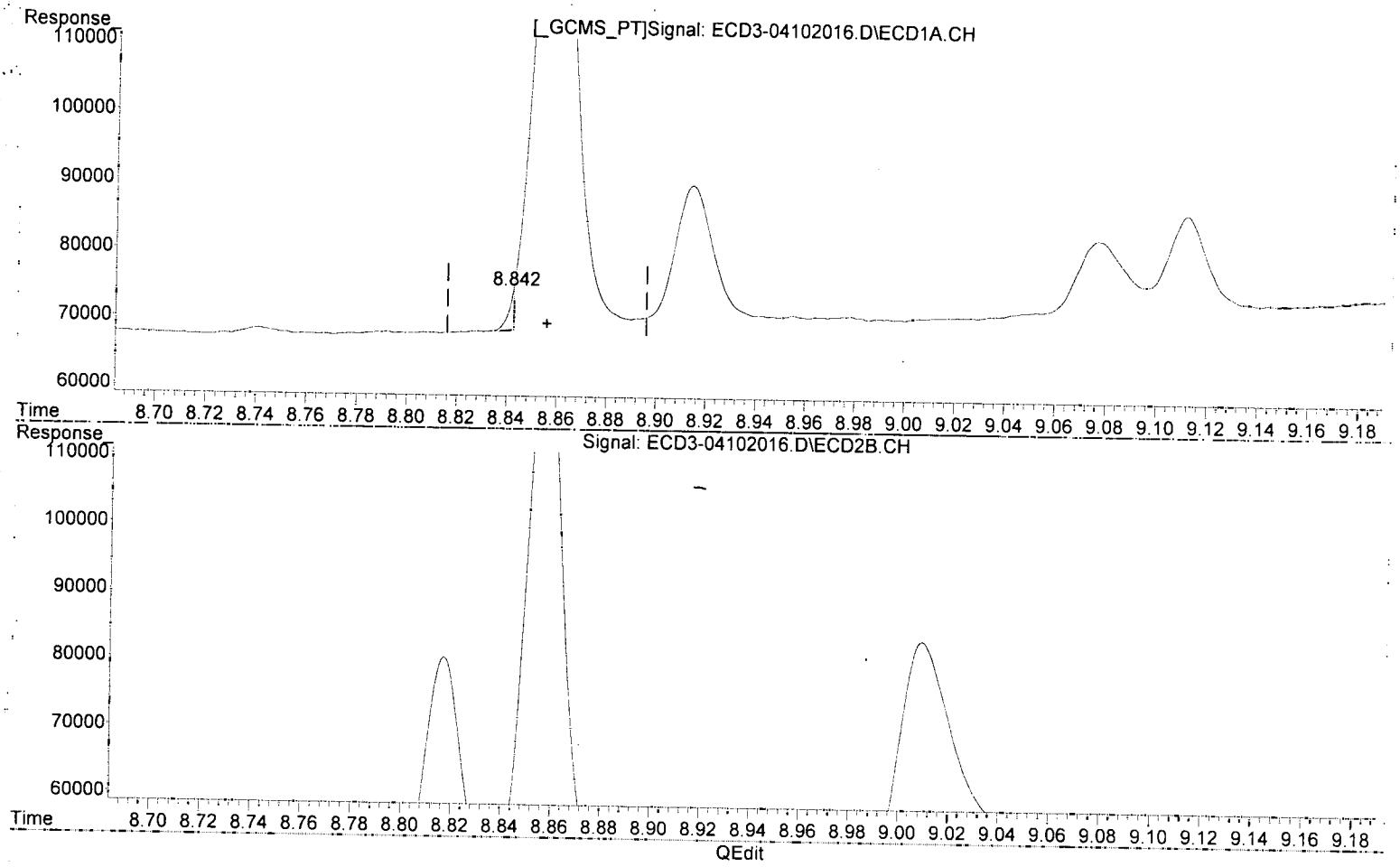


R = -1.39e+001 A*A + 9.90e+004 A + 3.66e+004
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.842min 7125.825 ng/mL (m) Q-DEL

response 5871

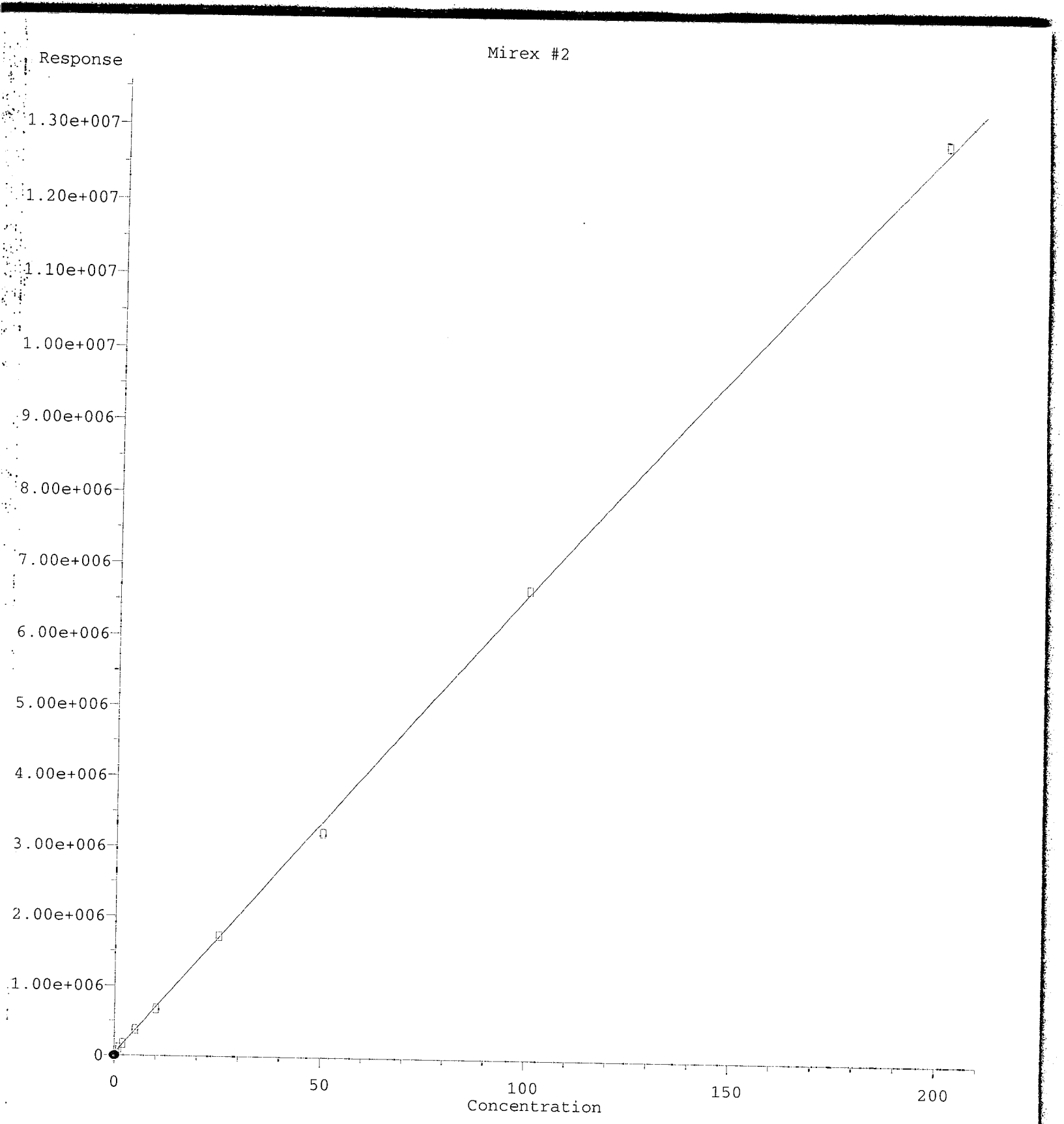
MJB 4/13/20

(31) Mirex #2

9.790min 0.478 ng/mL

response 60436

(+) = Expected Retention Time

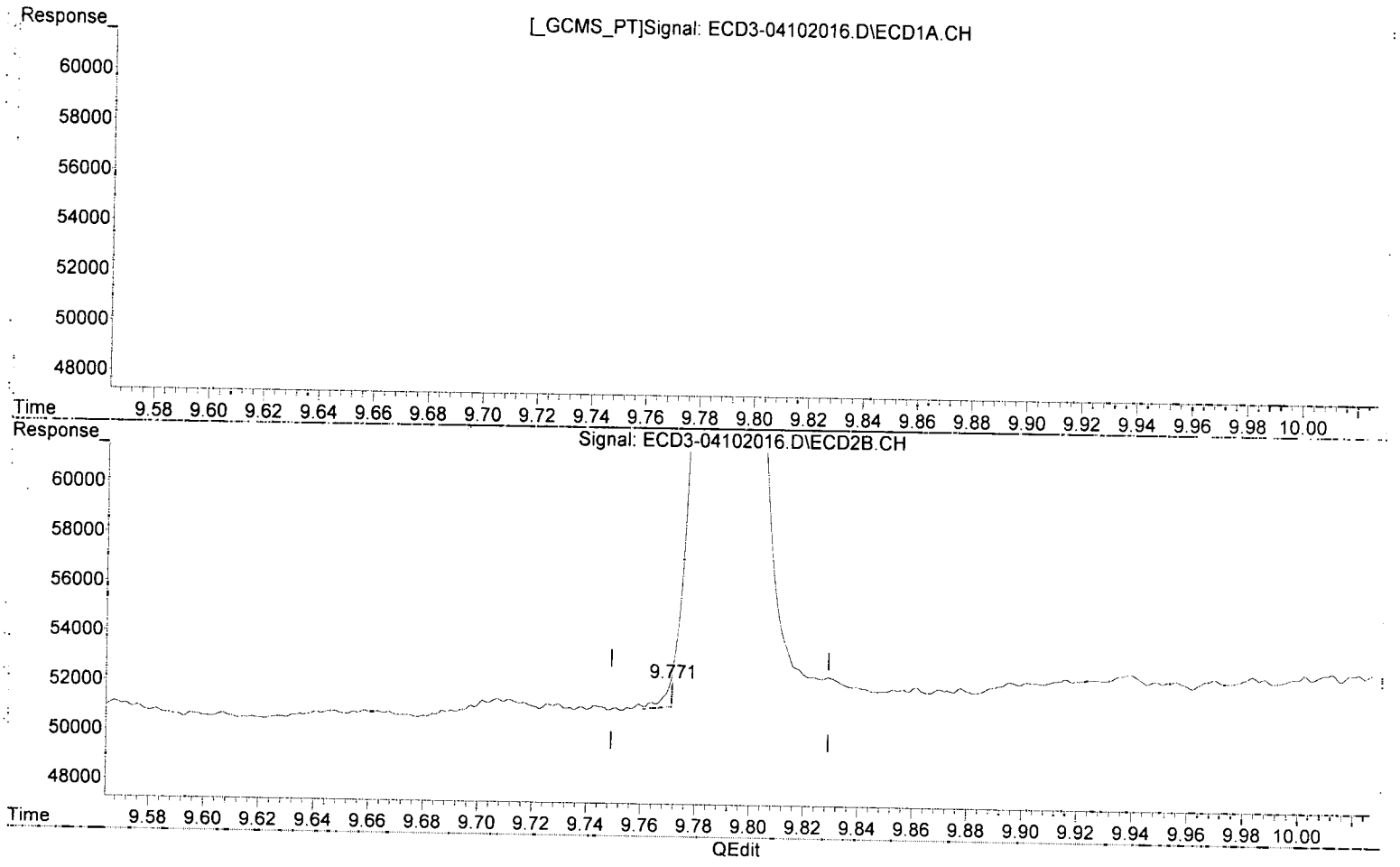


R = -1.90e+001 A*A + 6.77e+004 A + 2.80e+001
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 12 12:24:05 2010

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.842min 7125.825 ng/mL m

response 5871

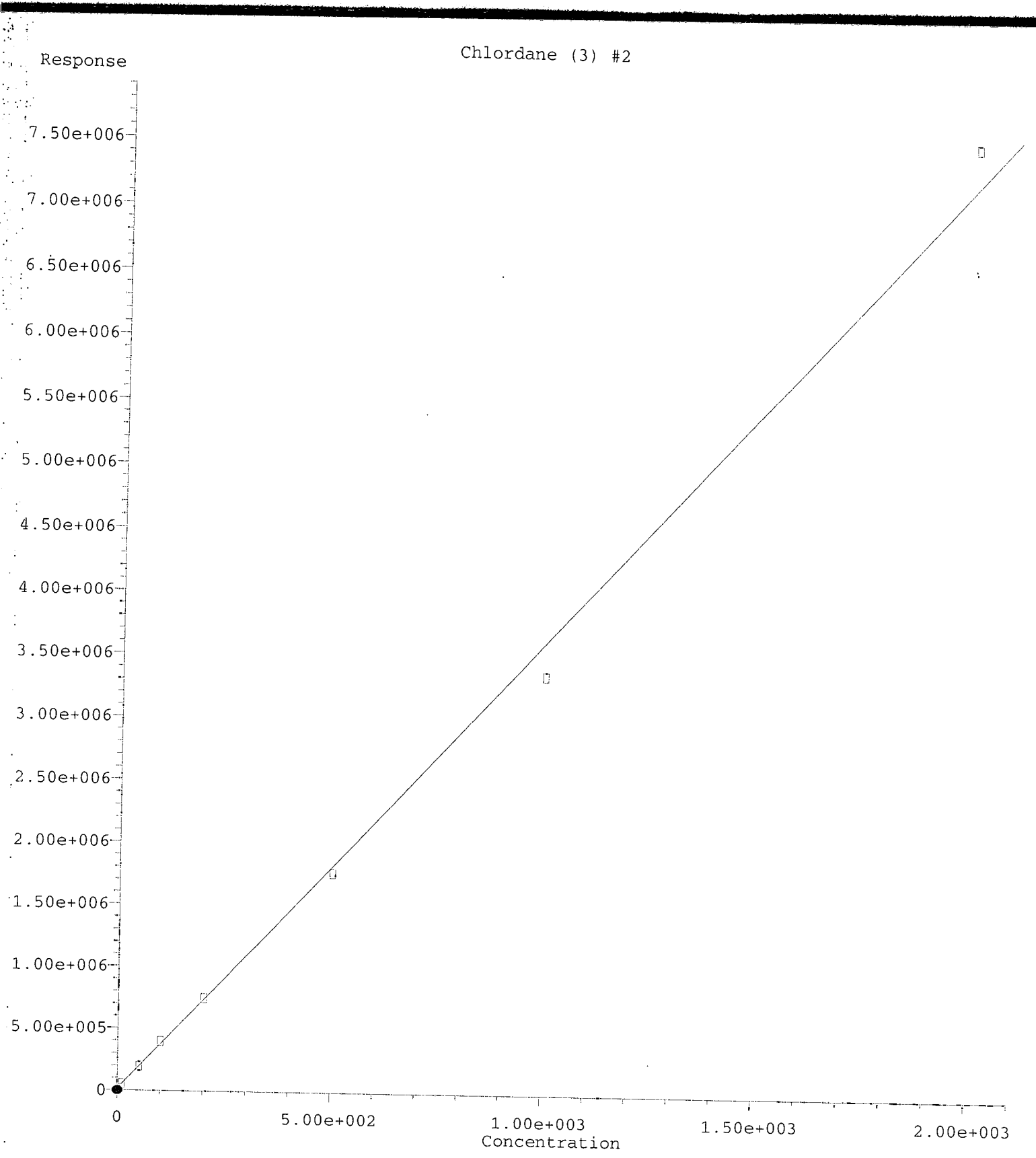
MJB 4/13/20

(31) Mirex #2

9.771min 3567.514 ng/mL (m) Q-DC1

response 970

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:23:19 2020

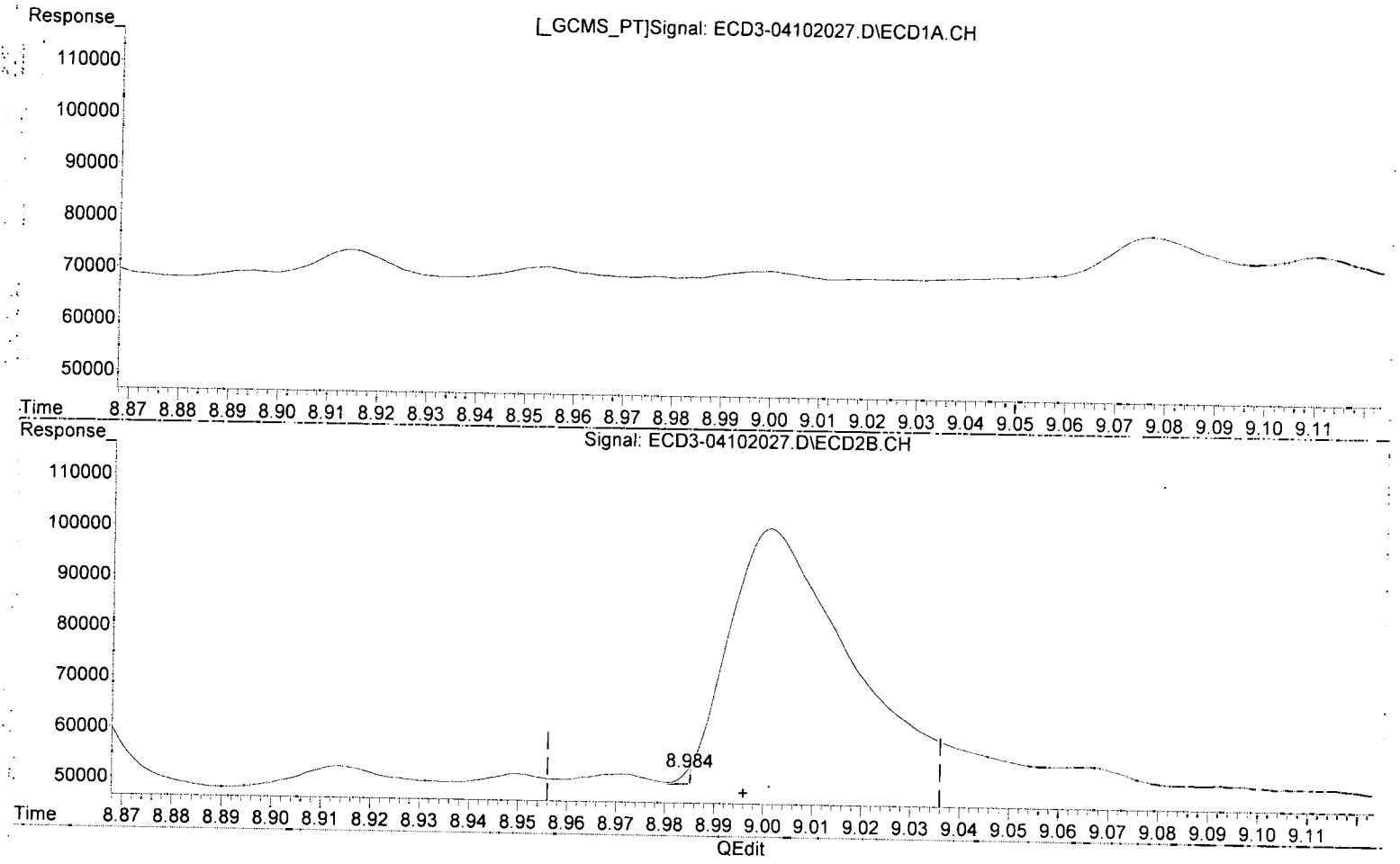


R = 5.63e-003 A*A + 3.60e+003 A + 1.56e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:40
Operator : MJB
Sample : 0D10031-CALJ
Misc : A20D136, CHLOR 10 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(34) Chlordane (3)

8.267min 10.437 ng/mL

response 55530

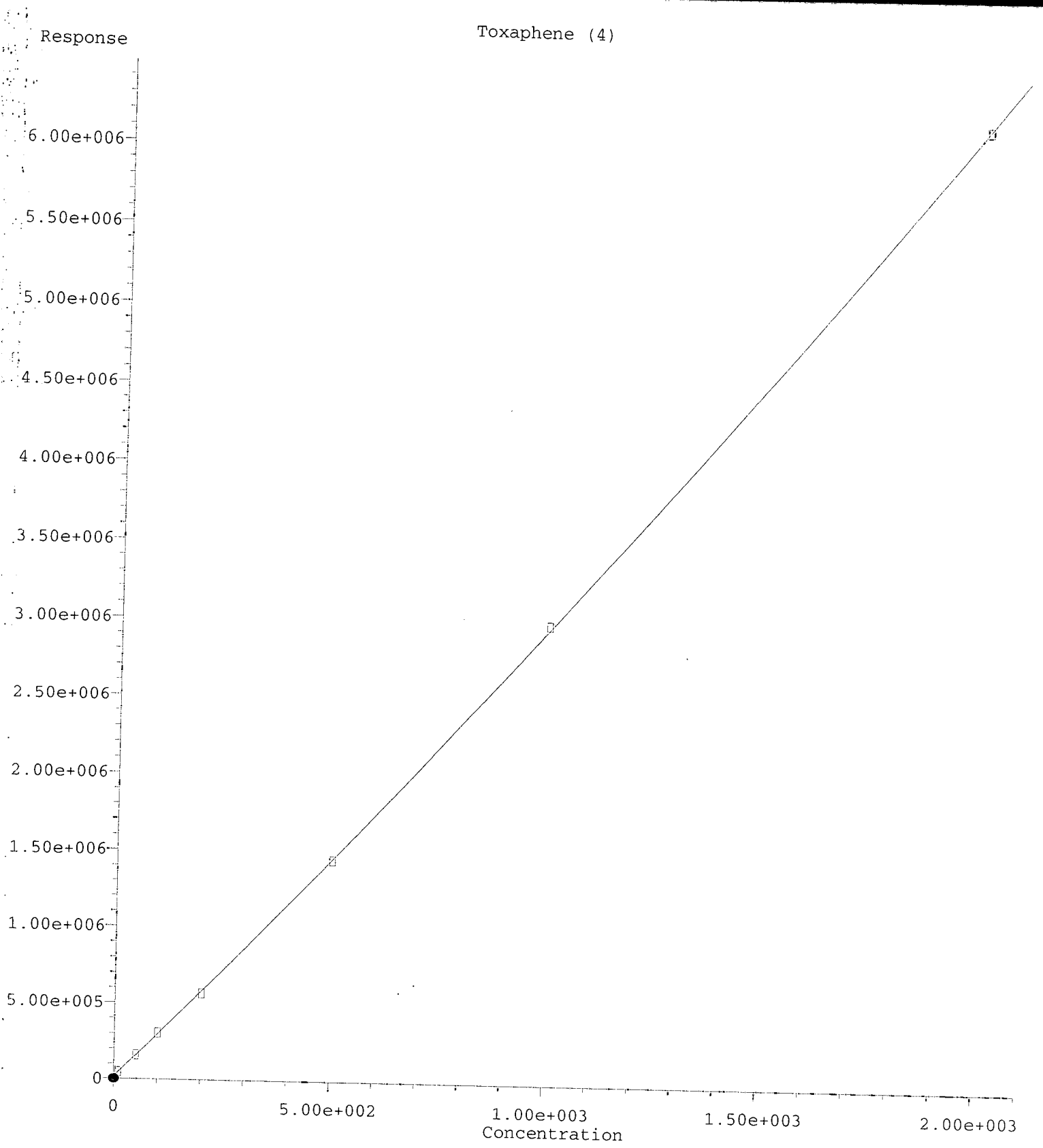
MJB 4/13/20

(34) Chlordane (3) #2

8.984min -3.622 ng/mL m

response 2573

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:23:45 2020

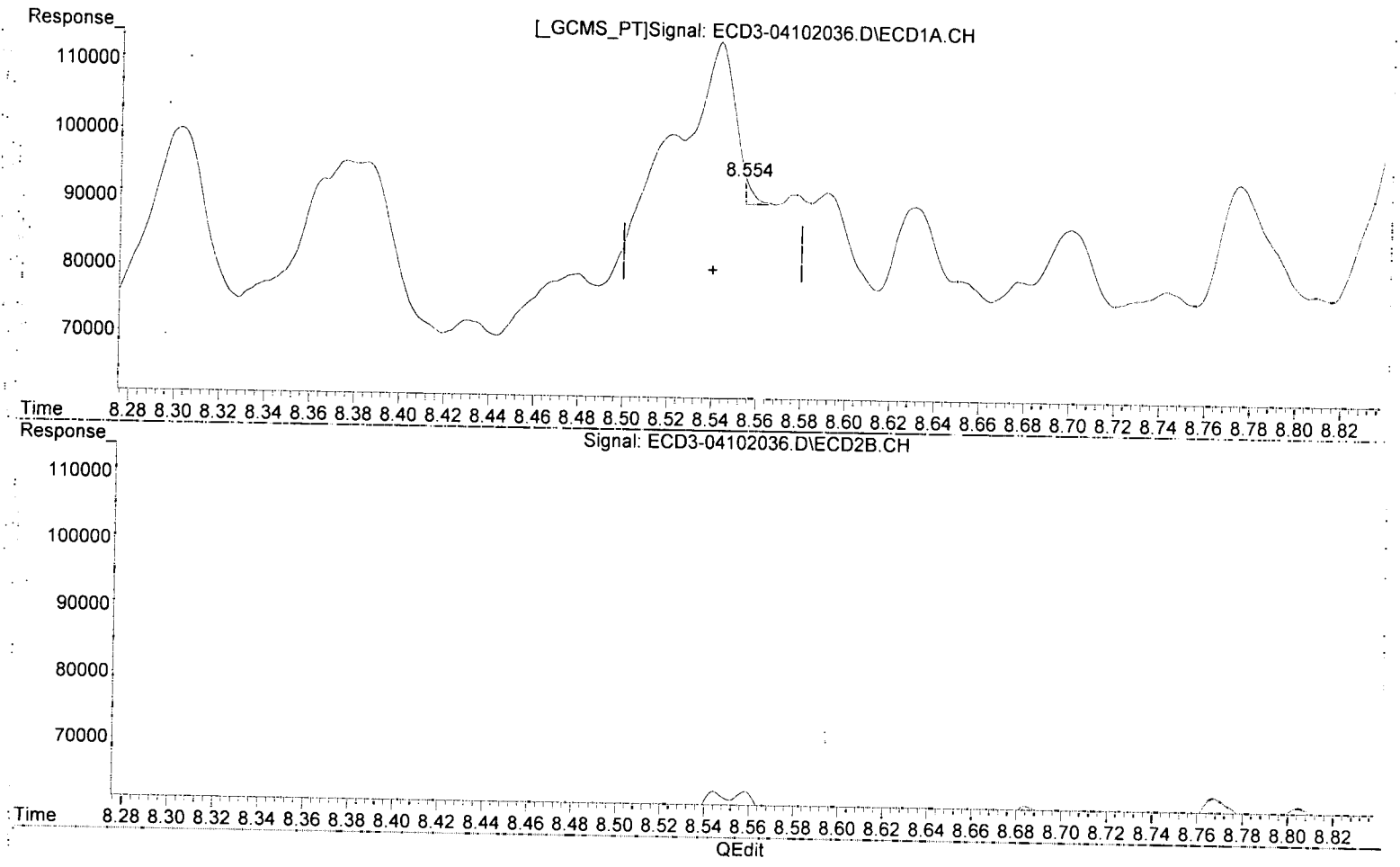


= 1.45e-001 A*A + 2.80e+003 A + 1.69e+004
oef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a^2)
ethod Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
alibration Table Last Updated: Mon Apr 13 10:04:05 2020 Anchor QEA LLC - Gasco PreRD_DG 2019 - 4d. Elutriate Testing Page 708 of 1196

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Toxaphene (4)

8.554min -4.616 ng/mL (m)

response 4014

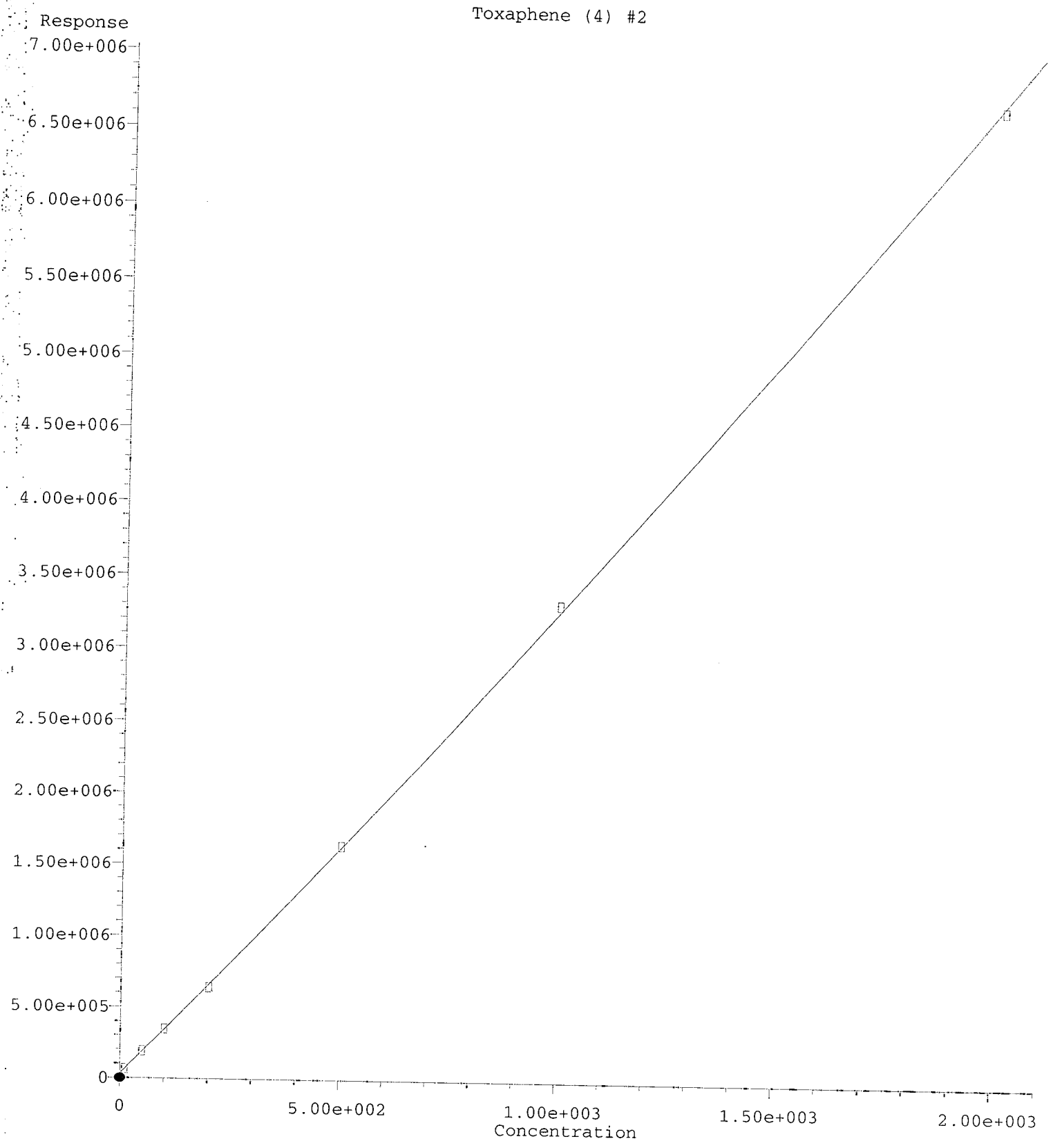
MJB 4/13/20

(39) Toxaphene (4) #2

9.011min 9.976 ng/mL

response 62570

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:24:13 2020

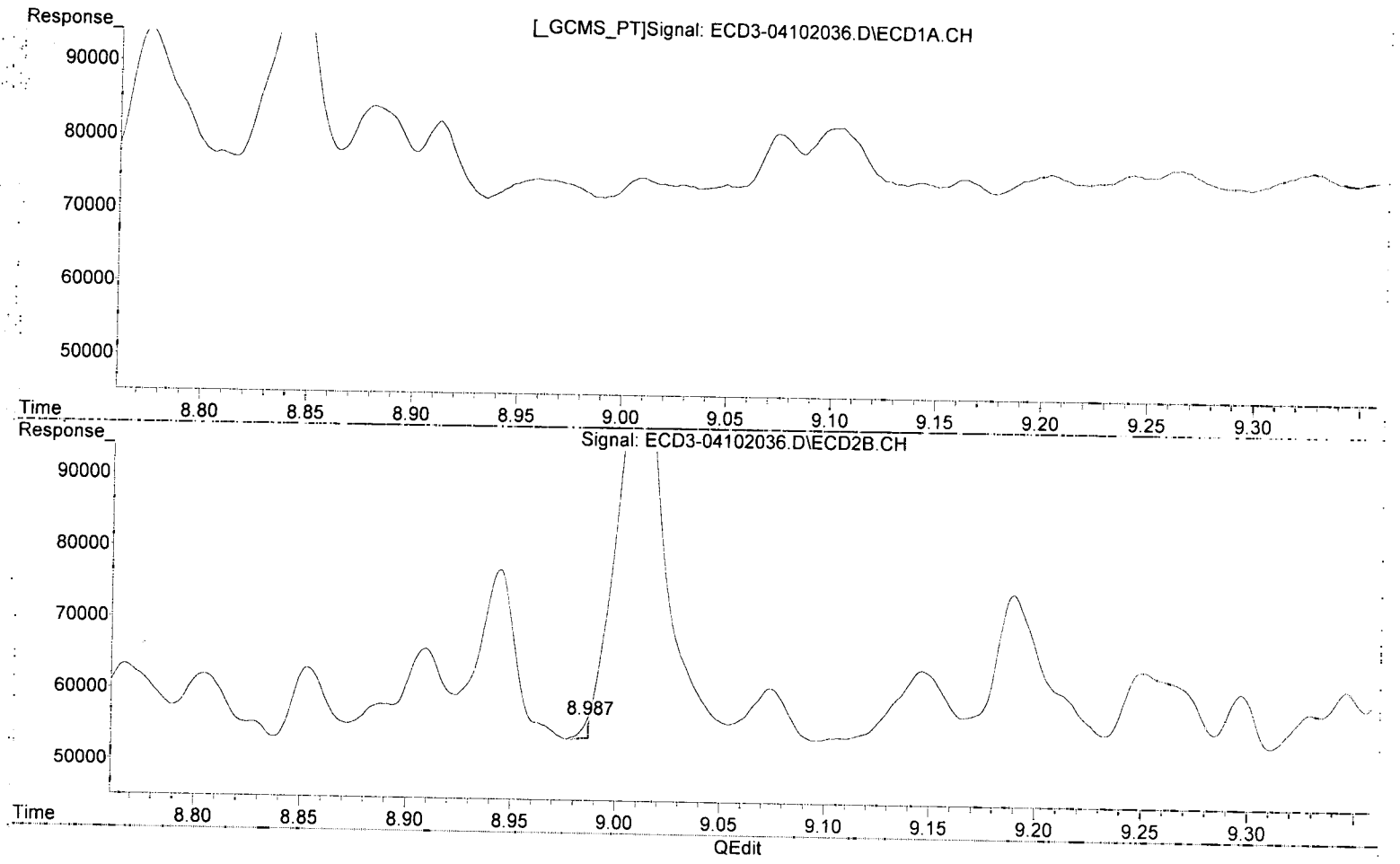


R = 1.14e-001 A*A + 3.12e+003 A + 3.14e+004
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Toxaphene (4)

8.554min -4.616 ng/mL m

response 4014

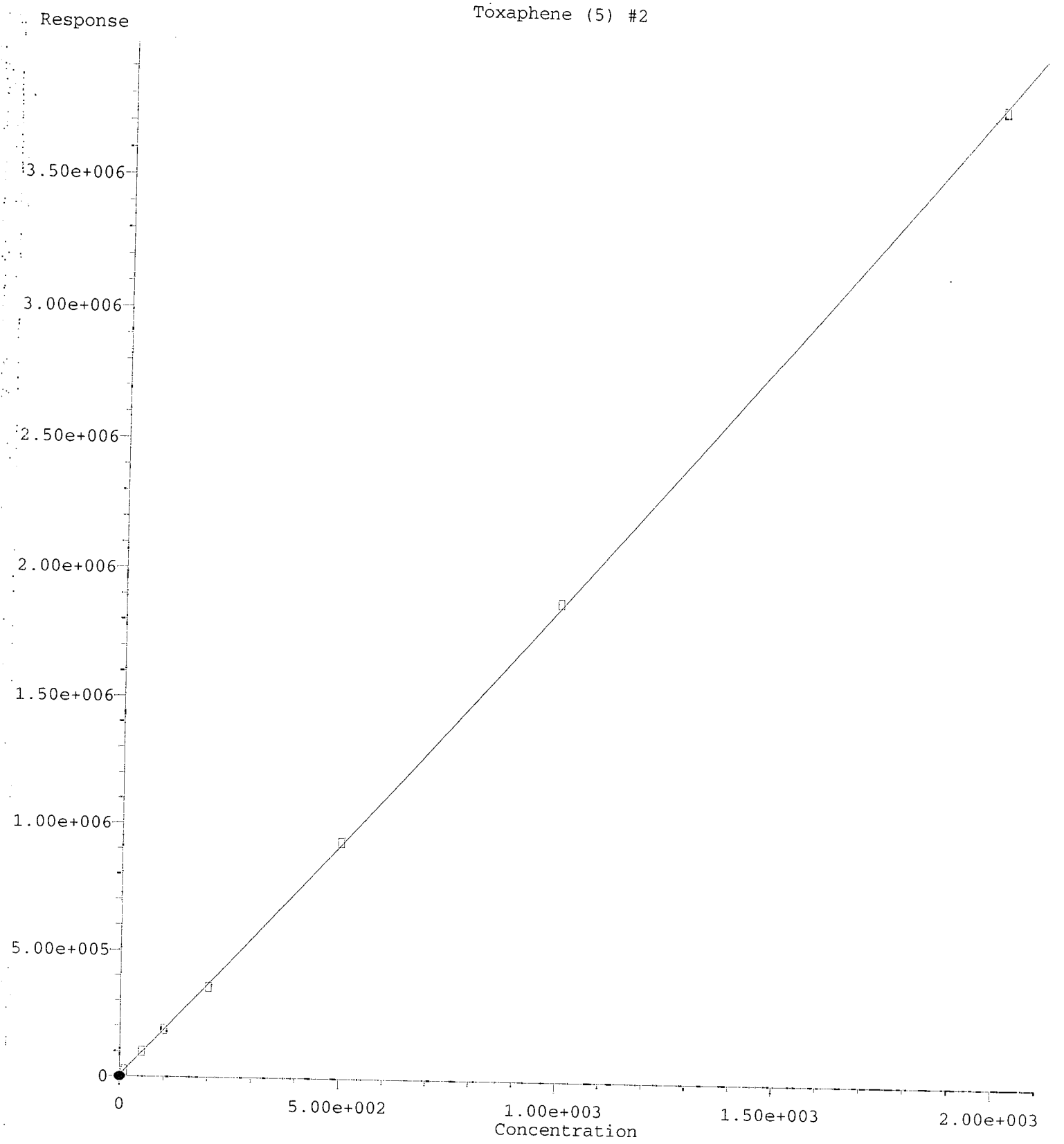
MJB 4/13/20

(39) Toxaphene (4) #2

8.986min -9.217 ng/mL (m)

response 2663

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:24:25 2020

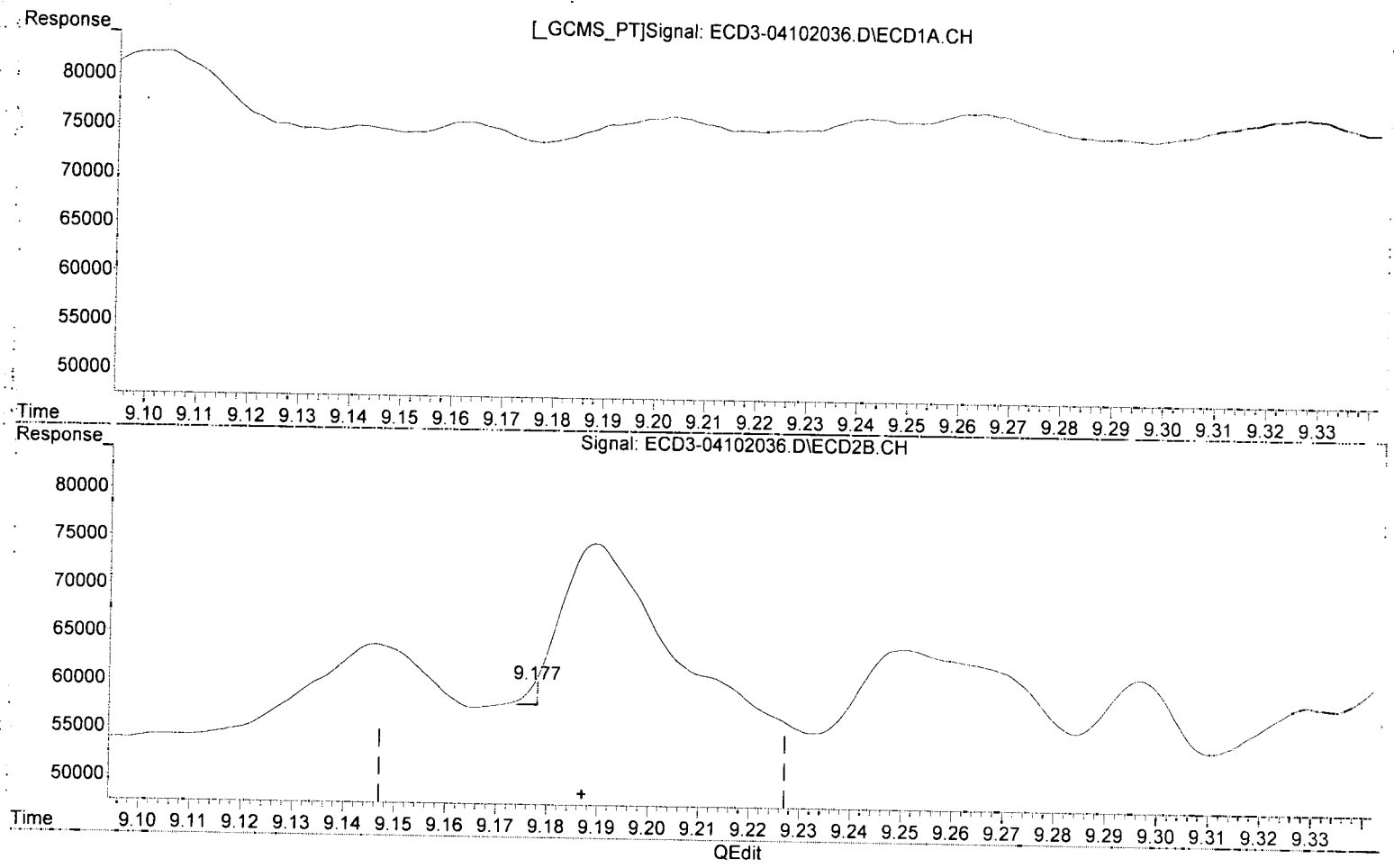


R = 4.73e-002 A*A + 1.81e-001 A + 5.71e+003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Calibration Table Last Updated: Mon Apr 13 12:24:05 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(40) Toxaphene (5)

8.775min 9.973 ng/mL

response 23487

MJB 4/13/20

(40) Toxaphene (5) #2

9.177min -2.047 ng/mL (m)

response 2211

(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:24:36 2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

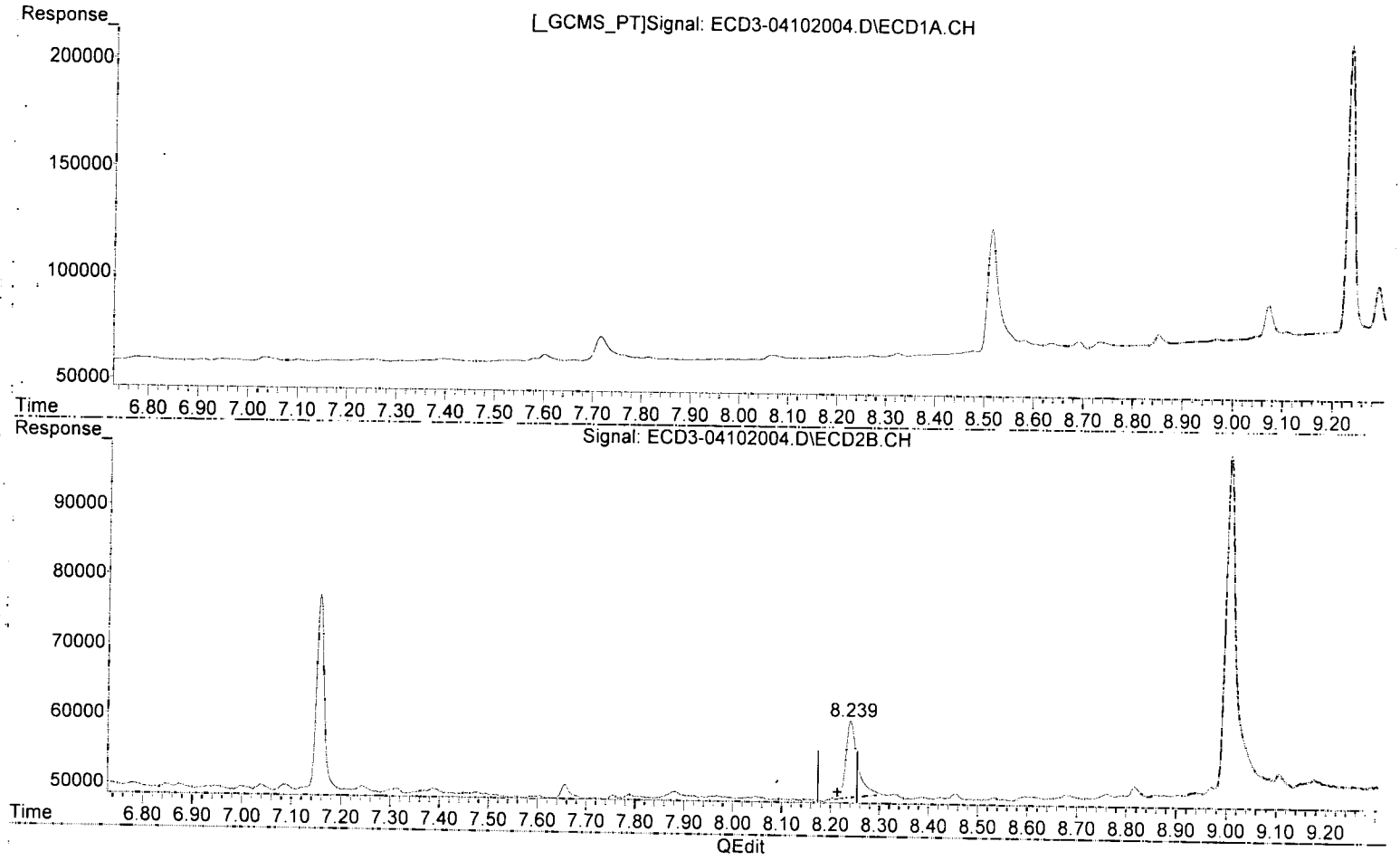
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.561	6.060	14007398	10443056	94.576	96.566
22) S	DCBP (S)	9.806	10.677	9729997	5807983	88.424	89.325
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9)	trans-Chl...	0.000	8.239	0	11031	N.D.	0.091 #
10)	cis-Chlor...	7.717	0.000	10843	0	0.069	N.D. #
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14)	Endrin	0.000	0.000	0	0	N.D.	N.D.
15)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin Al...	8.581f	0.000	2371	0	BelowCal	N.D.
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	9.072f	0.000	13537	0	0.094	N.D. #
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24)	Hexachlor...	5.948	0.000	27535	0	0.004	N.D. #
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26)	2,4'-DDE	0.000	8.239f	0	11031	N.D.	~~2144.840~~ # QDC1
27)	trans-Non...	7.717	0.000	10843	0	BelowCal	N.D.
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30)	cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31)	Mirex	8.851	0.000	4576	0	~~7125.838~~ QDC1	N.D.
32)	Chlordane...	0.000	8.239	0	11031	N.D.	N.D. #
33)	Chlordane...	7.717	0.000	10843	0	0.523	0.763 #
34)	Chlordane...	0.000	9.003	0	47406	N.D.	N.D. #
35)	Chlordane...	0.000	3.829f	0	11722	N.D.	8.840 #
36)	Toxaphene...	7.717f	0.000	10843	0	13.026	NoCal
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39)	Toxaphene...	8.514f	9.003	56698	47406	14.221	5.121 #
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
41)	Toxaphene...	8.851	0.000	4576	0	1.509	N.D. #
42)	Toxaphene...	0.000	3.829f	0	11722	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

0.000min 0.000 ng/mL

response 0

MJB 4/13/20

(26) 2,4'-DDE #2

8.239min 2144.840 ng/mL a-DD

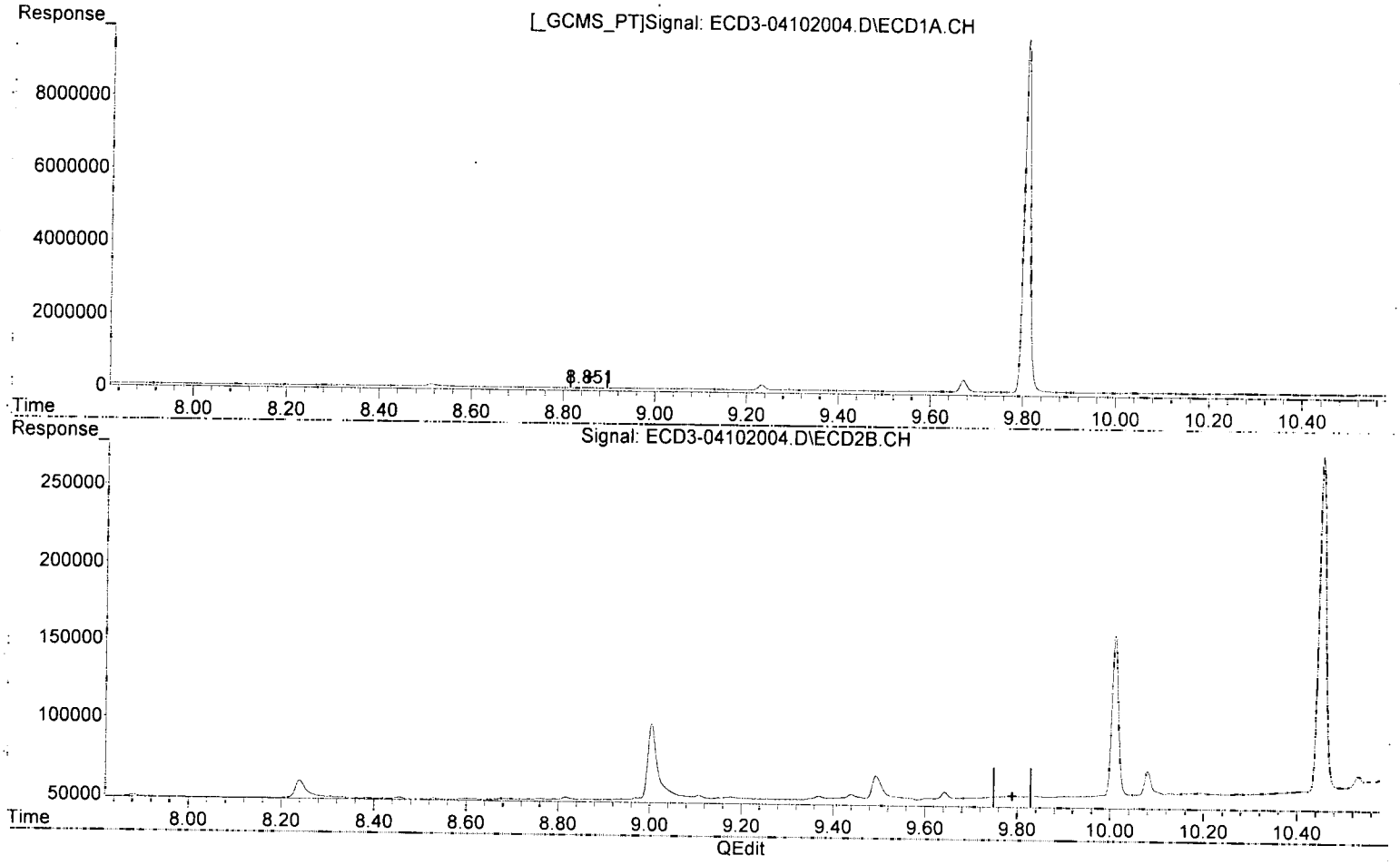
response 11031

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.851min 7125.838 ng/mL QDCI

response 4576

MJB 4/13/20

(31) Mirex #2

0.000min 0.000 ng/mL

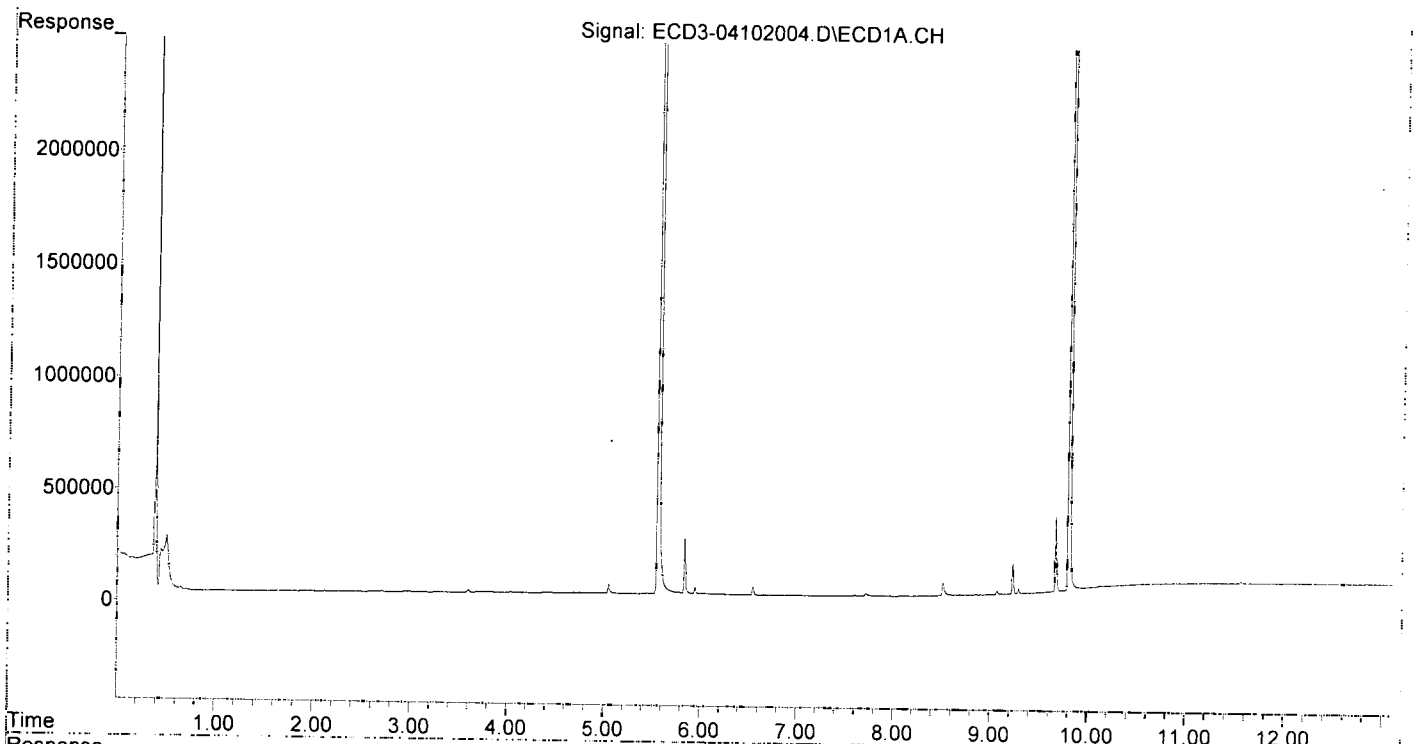
response 0

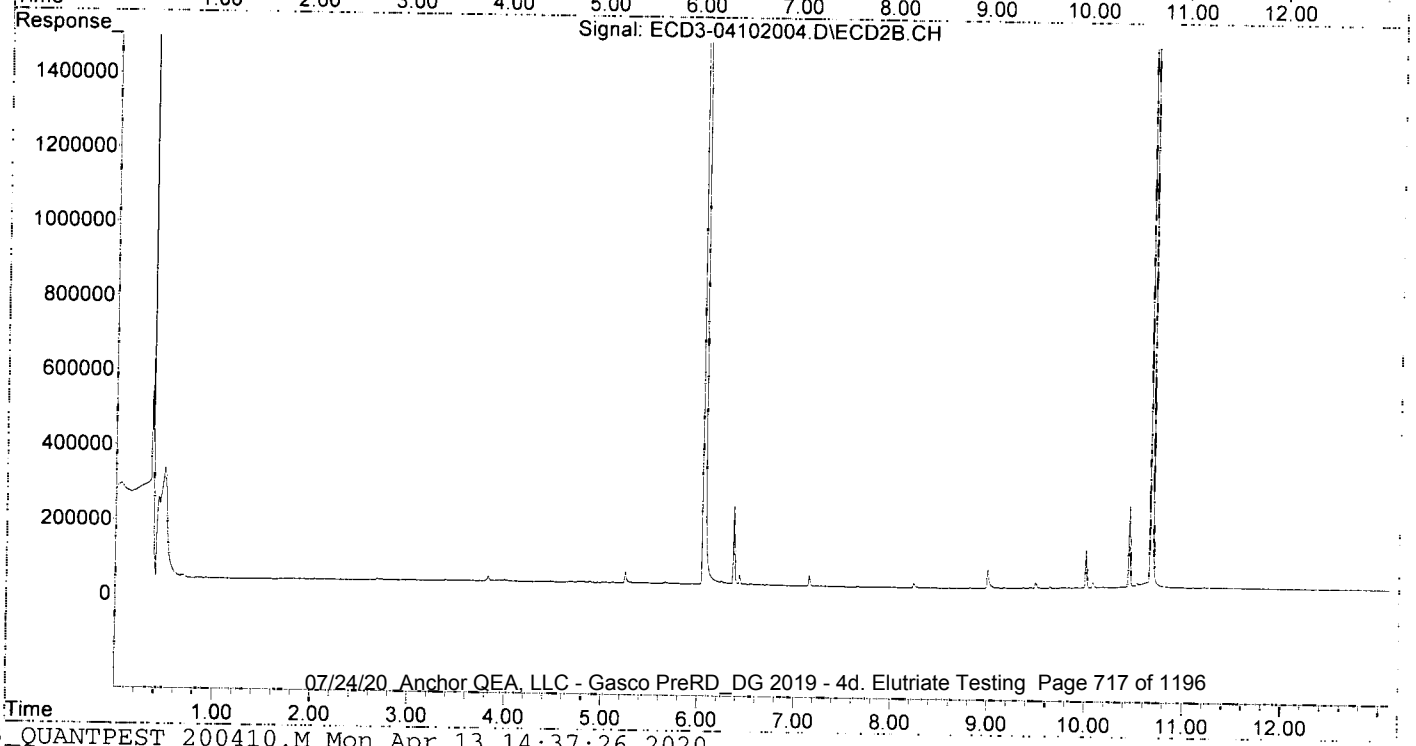
(+) = Expected Retention Time
ECD3_QUANTPEST_200410.M Mon Apr 13 14:48:29 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:05
Operator : MJB
Sample : 0D10031-ICB1
Misc : A20B383
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:25 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:57
Operator : MJB
Sample : 0D10031-IBL1
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

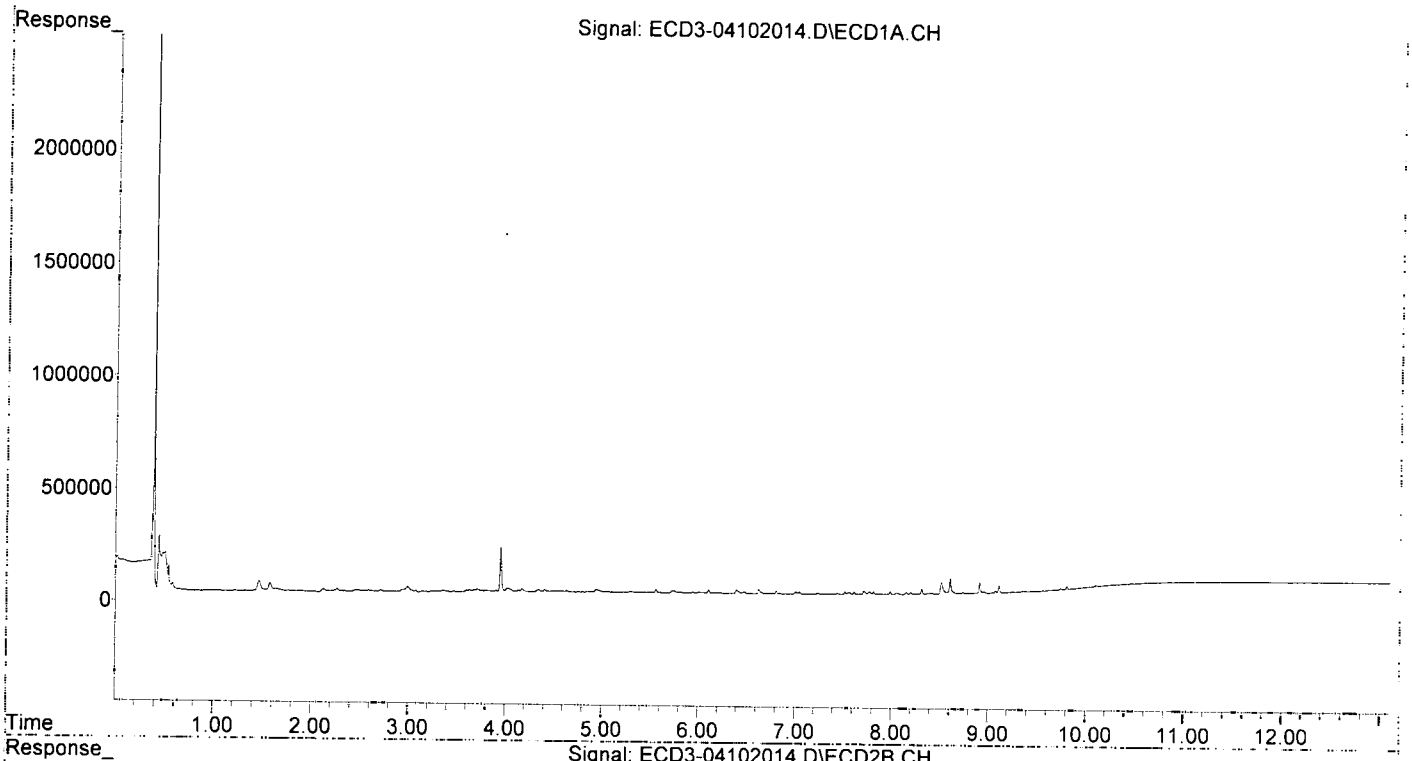
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.062	14361	12632	0.097	~~1884.003~~ #
22) S	DCBP (S)	9.807	10.678	13290	9714	BelowCal	~~2279.945~~
	Target Compounds						
2)	a-BHC	6.107	6.673	14014	10733	0.069	0.068
3)	g-BHC	6.398	6.994	16677	10541	0.097	0.078
4)	b-BHC	6.474	7.061	8495	8184	0.125	0.133
5)	Heptachlor	6.808	7.371	11726	11317	0.072	0.100
6)	d-BHC	6.628	7.318	20172	20828	0.144	0.170
7)	Aldrin	7.051	7.640	10541	8100	0.063	0.061
8)	Heptachlo...	7.520	8.082	12548	10144	0.080	0.086
9)	trans-Chl...	7.616	8.222	11349	10417	0.072	0.086
10)	cis-Chlor...	7.715	8.330	15644	10710	0.100	0.092
11)	Endosulfa...	7.815	8.383	11297	8792	0.079	0.082
12)	4,4'-DDE	7.774	8.438	11571	8379	0.080	0.073
13)	Dieldrin	7.988	8.585	12966	10365	0.081	0.087
14)	Endrin	8.155	8.814	9100	7342	0.074	0.085
15)	4,4'-DDD	8.202	8.857	8238	7914	0.068	0.084
16)	Endosulfa...	8.315	8.962	23751	19447	0.196	0.212
17)	4,4'-DDT	8.399	9.085	6071	5870	0.163	0.178
18)	Endrin Al...	8.608	9.202	68986	54792	0.446	0.441
19)	Endosulfa...	8.913	9.393	47417	32882	0.394	0.391
20)	Methoxychlor	8.740	9.568	5455	3270	0.171	0.171
21)	Endrin Ke...	9.111	9.796	32767	23268	0.227	0.243
23)	Hexachlor...	3.356	3.753	2848	7057	~~2108.686~~	~~838.034~~ #
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26)	2,4'-DDE	7.520	8.222	12548	10417	BelowCal	~~2144.848~~
27)	trans-Non...	7.715	0.000	15644	0	BelowCal	N.D.
28)	2,4'-DDD	0.000	8.585	0	10365	N.D.	~~3167.731~~ #
29)	2,4'-DDT	8.056f	8.814	6163	7342	0.082	0.137 #
30)	cis-Nonac...	8.202f	8.857	8238	7914	BelowCal	~~2549.492~~
31)	Mirex	0.000	9.796	0	23268	N.D.	~~3567.185~~ #
32)	Chlordane...	7.616	8.222	11349	10417	0.643	0.720
33)	Chlordane...	7.715	8.330	15644	10710	0.755	0.866
34)	Chlordane...	0.000	9.006	0	38549	N.D.	6.378 #
35)	Chlordane...	0.000	3.753f	0	7057	N.D.	NoCal
36)	Toxaphene...	7.715f	8.585f	15644	10365	18.793	9.254 #
37)	Toxaphene...	7.988	0.000	12966	0	8.605	N.D. #
38)	Toxaphene...	8.315	8.962f	23751	19447	7.636	8.960
39)	Toxaphene...	8.517f	9.006	50469	38549	11.996	2.284 #
40)	Toxaphene...	8.740f	9.202	5455	54792	2.316	27.007 #
41)	Toxaphene...	0.000	9.568	0	3270	N.D.	1.616 #
42)	Toxaphene...	0.000	3.753f	0	7057	N.D.	NoCal

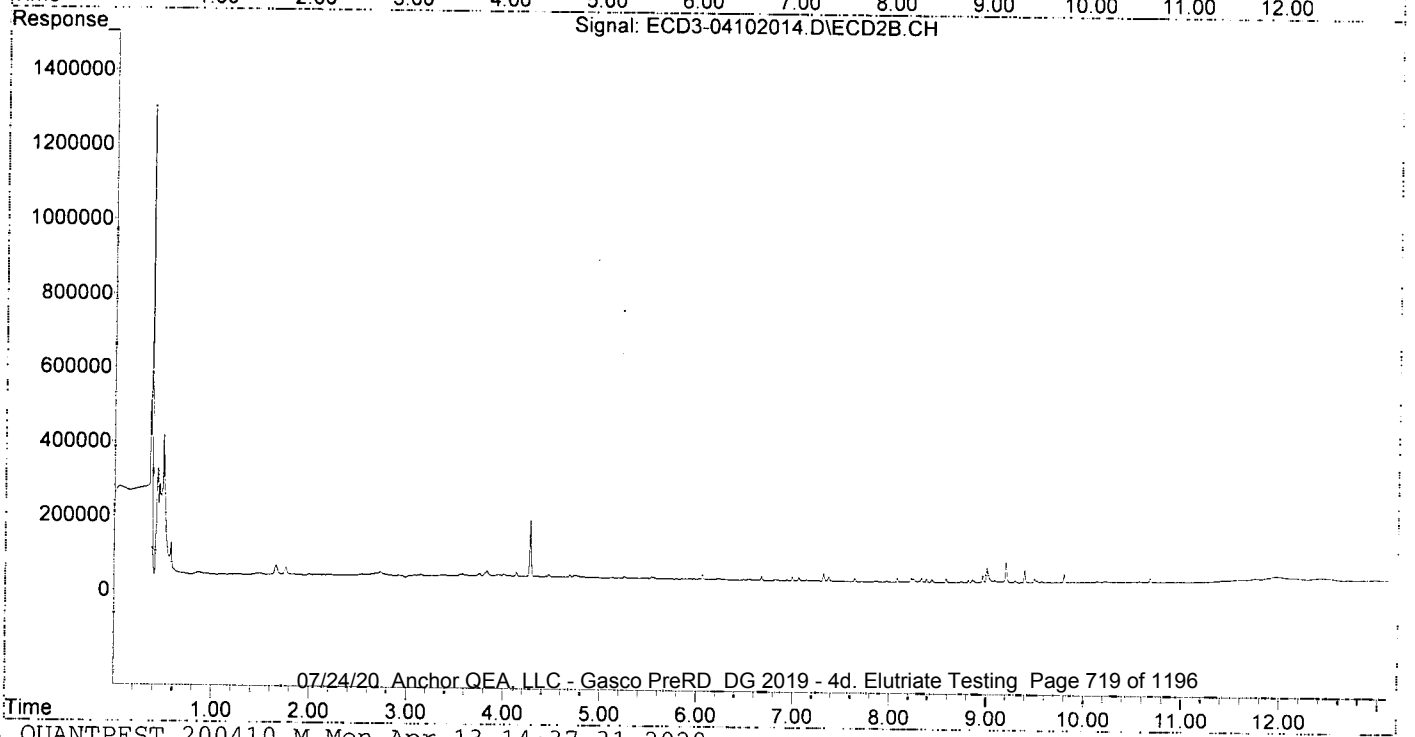
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:57
Operator : MJB
Sample : 0D10031-IBL1
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:14
Operator : MJB
Sample : 0D10031-ICV1
Misc : A20C164, AB 50 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

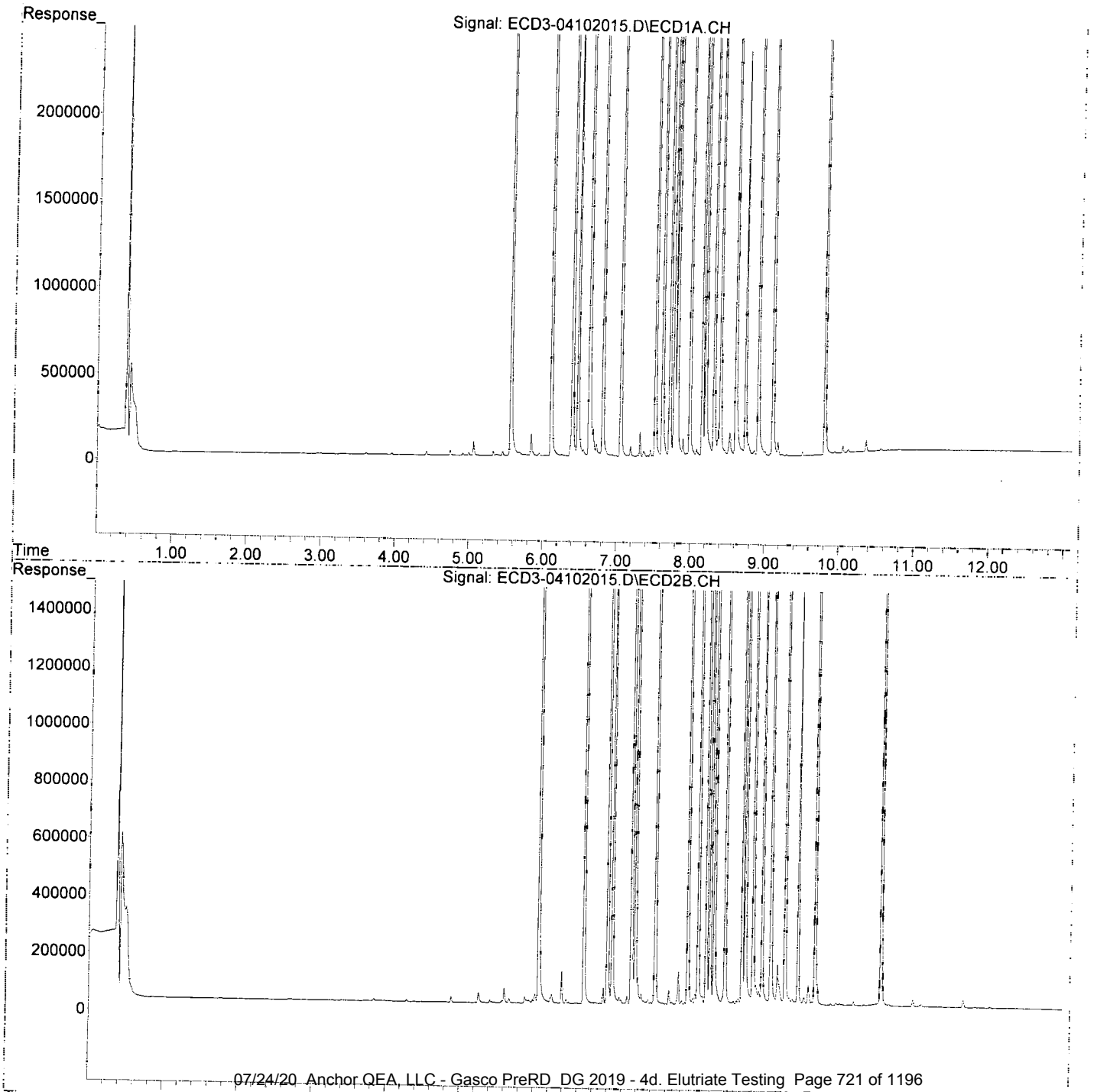
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.062	7154712	5672290	48.308	51.085	
22)	S DCBP (S)	9.807	10.679	5506550	3301372	50.007	49.766	
	Target Compounds							
2)	a-BHC	6.108	6.674	9990849	7656433	49.388	48.775	
3)	g-BHC	6.395	6.994	8960585	6704038	51.891	49.761	
4)	b-BHC	6.470	7.058	3450860	2893841	50.583	47.118	
5)	Heptachlor	6.808	7.371	7884934	5476181	48.153	48.375	
6)	d-BHC	6.624	7.316	7275741	6112992	51.833	50.010	
7)	Aldrin	7.053	7.641	8323743	6385572	49.652	48.049	
8)	Heptachlo...	7.520	8.082	7527788	5671738	48.137	48.191	
9)	trans-Chl...	7.615	8.222	7716593	5714580	49.038	47.384	
10)	cis-Chlor...	7.713	8.331	7596984	5445858	48.398	47.017	
11)	Endosulfa...	7.813	8.382	7061479	4957120	49.201	46.096	
12)	4,4'-DDE	7.773	8.437	7516432	5506386	52.106	47.819	
13)	Dieldrin	7.987	8.585	8017113	5795907	49.885	48.403	
14)	Endrin	8.154	8.814	6412704	4529791	51.982	52.398	
15)	4,4'-DDD	8.199	8.856	6225104	4434080	51.276	46.988	
16)	Endosulfa...	8.313	8.962	6332639	4710664	52.314	51.360	
17)	4,4'-DDT	8.399	9.085	5121856	3288899	52.934	53.995	
18)	Endrin Al...	8.606	9.201	5070095	3994540	48.919	50.227	
19)	Endosulfa...	8.912	9.393	6161467	4329515	51.150	51.433	
20)	Methoxychlor	8.737	9.568	2347710	1503159	51.682	52.275	
21)	Endrin Ke...	9.110	9.797	7009815	4671717	48.663	48.829	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	15381	0	BelowCal	N.D.	
25)	Oxychlordane	7.454	8.005	39125	12684	0.103	3277.609	#
26)	2,4'-DDE	7.520	8.222	7527788	5714580	81.235	76.347	
27)	trans-Non...	7.713	8.279	7596984	27126	52.606	0.026	#
28)	2,4'-DDD	7.896	8.585	102411	5795907	1.040	89.262	#
29)	2,4'-DDT	8.080	8.814	40626	4529791	0.540	84.449	#
30)	cis-Nonac...	8.199f	8.856	6225104	4434080	40.214	38.459	
31)	Mirex	8.861	9.797	27601	4671717	7125.605	69.931	#
32)	Chlordane...	7.615	8.222	7716593	5714580	437.189	395.002	
33)	Chlordane...	7.713	8.331	7596984	5445858	366.614	440.555	
34)	Chlordane...	0.000	9.005	0	62900	N.D.	13.146	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.713f	8.585f	7596984	5795907	9126.435	5175.004	#
37)	Toxaphene...	7.987	0.000	8017113	0	5320.497	N.D.	#
38)	Toxaphene...	8.313	8.962f	6332639	4710664	2035.979	2170.468	
39)	Toxaphene...	8.529	9.005	134285	62900	41.895	10.082	#
40)	Toxaphene...	8.783	9.201	69128	3994540	29.352	2090.983	#
41)	Toxaphene...	8.861	9.568	27601	1503159	9.099	742.670	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:14
Operator : MJB
Sample : 0D10031-ICV1
Misc : A20C164, AB 50 ppb
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:06
Operator : MJB
Sample : 0D10031-IBL2
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

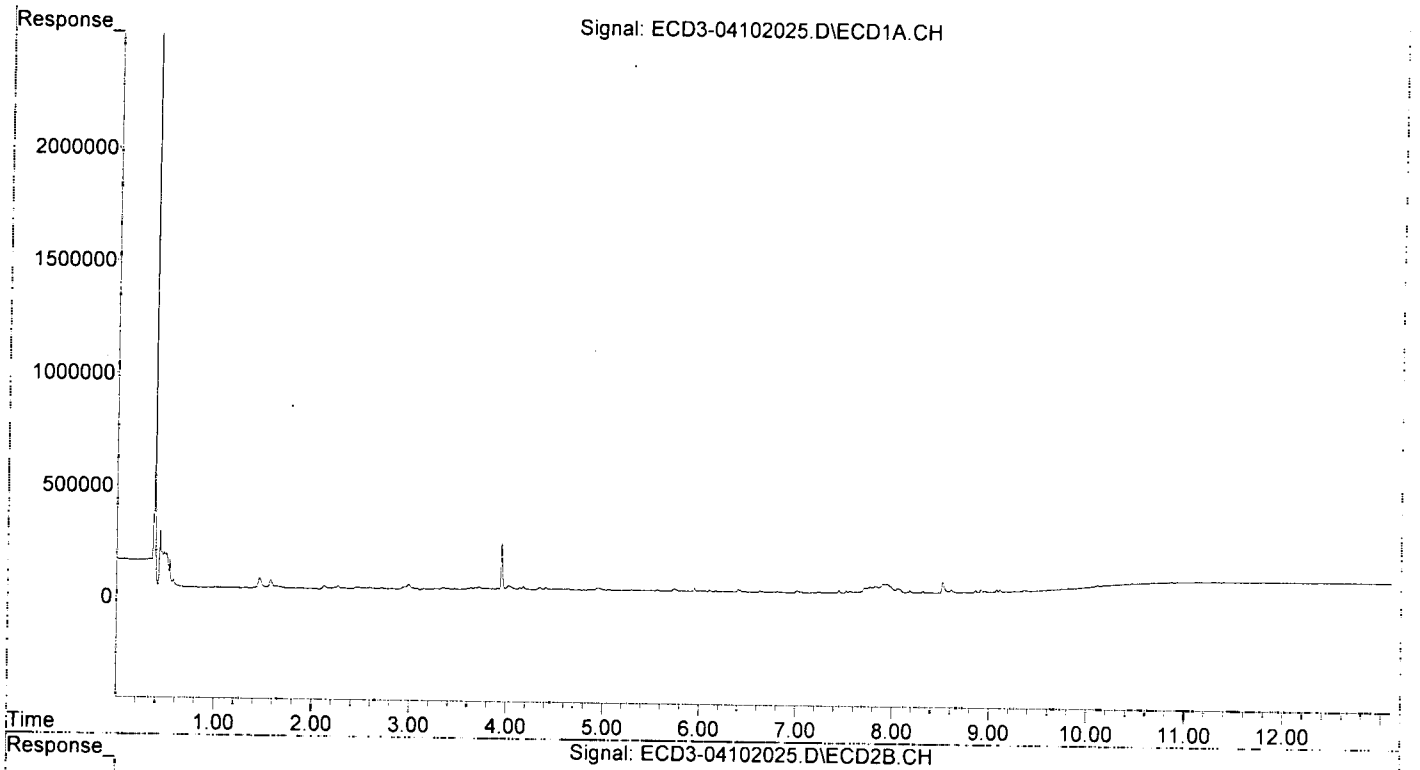
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	6.061	0	3427	N.D.	~~1884.084~~ #
22) S	DCBP (S)	9.807	0.000	5528	0	BelowCal	N.D.
	Target Compounds						
2)	a-BHC	6.107	6.673	6446	3877	0.032	0.025
3)	g-BHC	6.400	6.994	9454	3651	0.055	0.027 #
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	Heptachlor	6.808	7.371	4782	5715	0.029	0.050 #
6)	d-BHC	6.629	7.318	3733	6502	0.027	0.053 #
7)	Aldrin	0.000	7.640	0	3231	N.D.	0.024 #
8)	Heptachlo...	7.521	8.082	10797	3892	0.069	0.033 #
9)	trans-Chl...	7.616	8.218	5400	9201	0.034	0.076 #
10)	cis-Chlor...	7.710	8.330	22176	6644	0.141	0.057 #
11)	Endosulfa...	7.817	8.382	29528	3636	0.206	0.034 #
12)	4,4'-DDE	7.772	0.000	26506	0	0.184	N.D. #
13)	Dieldrin	0.000	8.589	0	8738	N.D.	0.073 #
14)	Endrin	8.179f	8.816	10284	6914	0.083	0.080
15)	4,4'-DDD	8.179f	8.857	10284	12203	0.085	0.129 #
16)	Endosulfa...	8.315	8.963	8143	7533	0.067	0.082
17)	4,4'-DDT	0.000	9.085	0	4018	N.D.	0.144 #
18)	Endrin Al...	8.608	9.201	13624	11092	BelowCal	~~3407.070~~
19)	Endosulfa...	8.914	9.393	13721	10139	0.114	0.120
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	9.110	9.794	11632	12079	0.081	0.126 #
23)	Hexachlor...	3.343	3.735	5469	7461	~~2108.670~~	~~838.032~~ #
24)	Hexachlor...	5.948	6.532	13572	13074	BelowCal	~~2197.509~~
25)	Oxychlordane	7.445	8.010	11916	7937	BelowCal	~~3277.657~~
26)	2,4'-DDE	7.521	8.218	10797	9201	BelowCal	~~2144.864~~
27)	trans-Non...	7.710	8.286	22176	10027	BelowCal	~~1953.472~~
28)	2,4'-DDD	7.901	8.589	39084	8738	0.262	~~3167.756~~ #
29)	2,4'-DDT	8.054f	8.816	19632	6914	0.261	0.129 #
30)	cis-Nonac...	8.179	8.857	10284	12203	BelowCal	~~2549.455~~
31)	Mirex	8.856	9.794	9473	12079	~~7125.788~~	~~3567.351~~ #
32)	Chlordane...	7.616	8.218	5400	9201	0.306	0.636 #
33)	Chlordane...	7.710	8.330	22176	6644	1.070	0.538 #
34)	Chlordane...	0.000	9.008	0	35785	N.D.	5.609 #
35)	Chlordane...	0.000	3.751f	0	8586	N.D.	NoCal
36)	Toxaphene...	7.710f	8.589f	22176	8738	26.641	7.802 #
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38)	Toxaphene...	8.315	8.963f	8143	7533	2.618	3.471
39)	Toxaphene...	8.519f	9.008	48084	35785	11.143	1.398 #
40)	Toxaphene...	0.000	9.201	0	11092	N.D.	2.863 #
41)	Toxaphene...	8.856	0.000	9473	0	3.123	N.D. #
42)	Toxaphene...	0.000	3.751f	0	8586	N.D.	NoCal

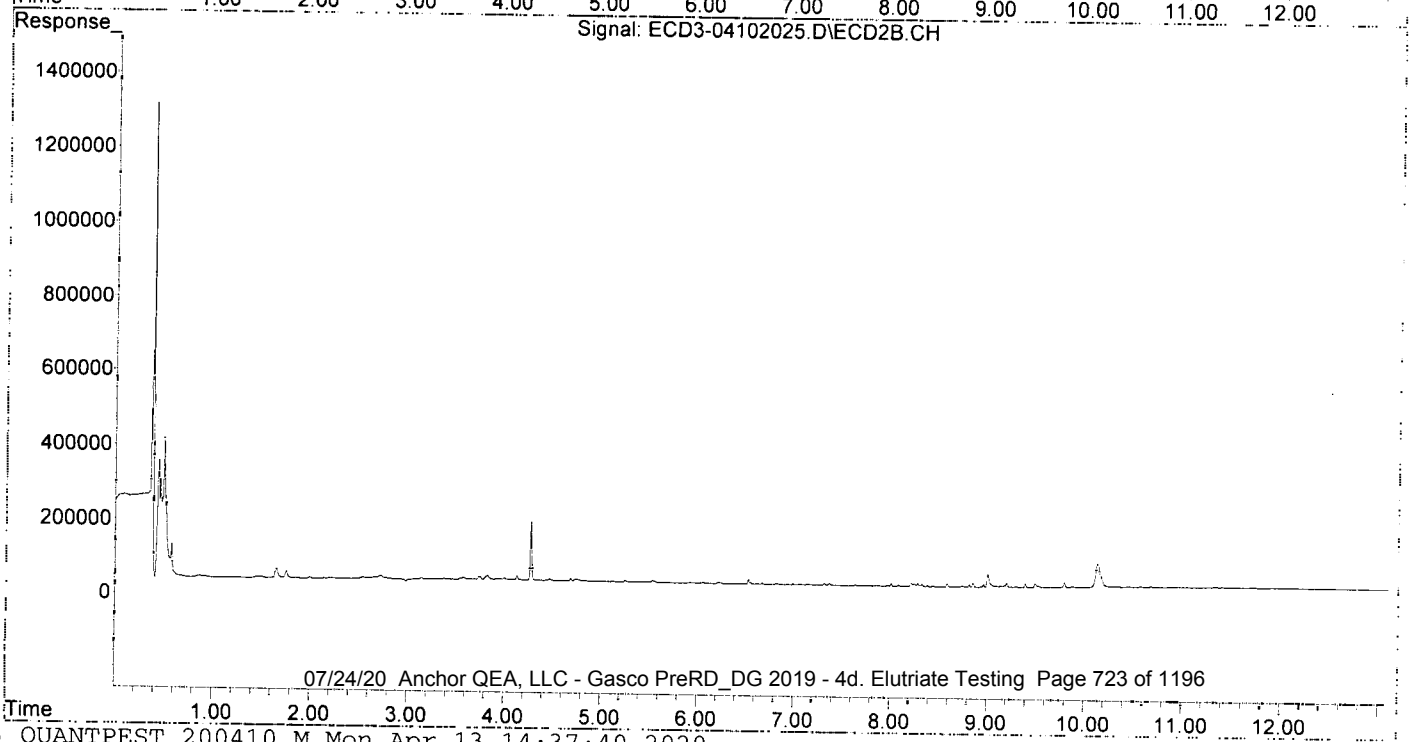
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:06
Operator : MJB
Sample : 0D10031-IBL2
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:23
Operator : MJB
Sample : 0D10031-ICV2
Misc : A20C360, 9-42 50 ppb
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

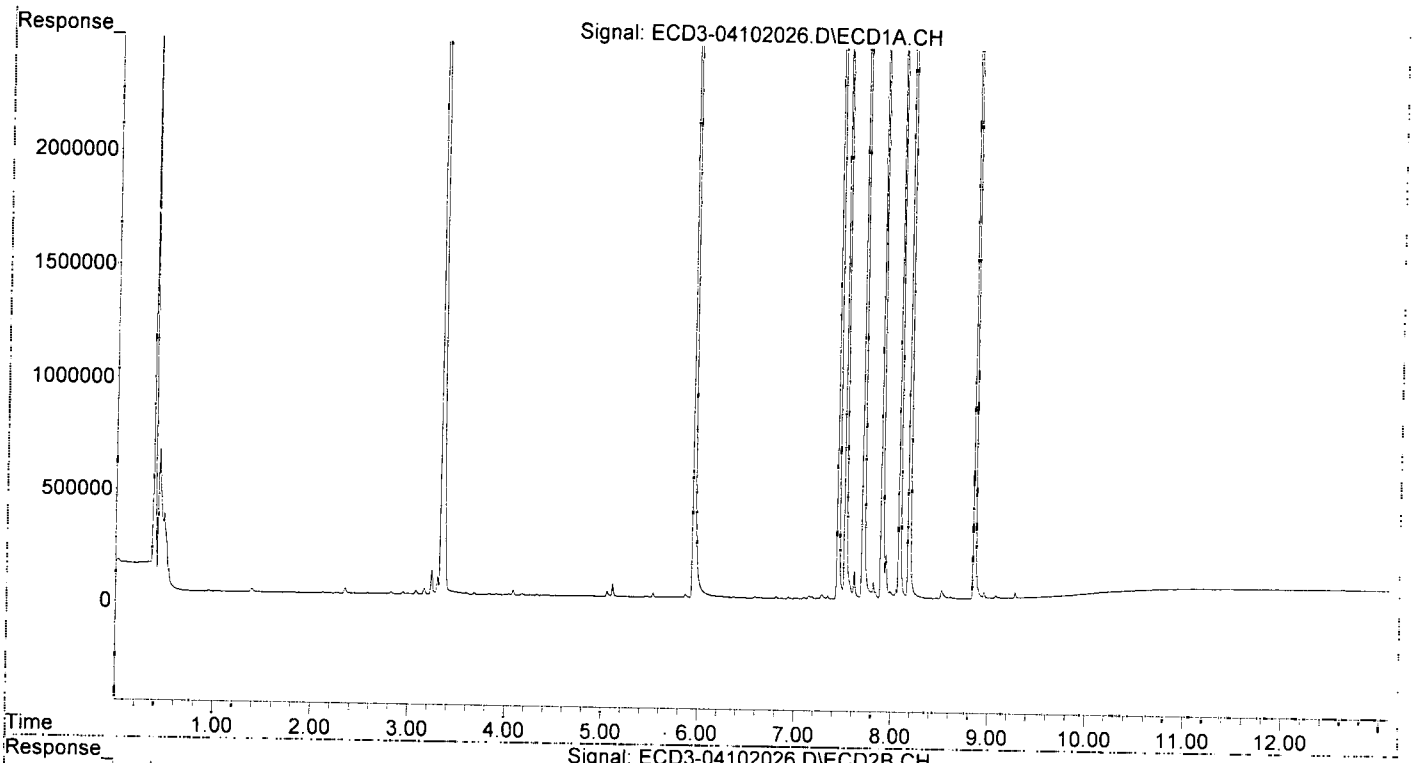
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.081	18244	7201	0.123	1884.051	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.808	7.372	8368	5507	0.051	0.049	
6)	d-BHC	6.588f	0.000	6118	0	0.044	N.D.	#
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.520	0.000	4731787	0	30.258	N.D.	#
9)	trans-Chl...	7.615	8.215	121428	3917092	0.772	32.479	#
10)	cis-Chlor...	7.703	8.331	7516340	247386	47.884	2.136	#
11)	Endosulfa...	7.814	8.393	70195	22193	0.489	0.206	#
12)	4,4'-DDE	7.792	8.412f	29915	14013	0.207	0.122	#
13)	Dieldrin	7.987	8.591	26461	3254721	0.165	27.181	#
14)	Endrin	8.179f	8.817	7957377	3109923	64.504	35.974	#
15)	4,4'-DDD	8.179f	8.856	7957377	5989948	65.544	63.476	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.615	9.204	6444	3795	BelowCal	3407.161	
19)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.077f	9.789	8254	3386713	0.057	35.398	#
23)	Hexachlor...	3.341	3.736	7896264	7193299	46.411	46.022	
24)	Hexachlor...	5.947	6.532	6933401	5654398	51.222	52.898	
25)	Oxychlordane	7.446	8.010	6653870	5073538	50.989	52.022	
26)	2,4'-DDE	7.520	8.215	4731787	3917092	51.461	51.641	
27)	trans-Non...	7.703	8.286	7516340	5542427	52.049	51.344	
28)	2,4'-DDD	7.896	8.591	4125234	3254721	50.269	49.355	
29)	2,4'-DDT	8.081	8.817	4439544	3109923	58.974	57.978	
30)	cis-Nonac...	8.179	8.856	7957377	5989948	51.366	52.327	
31)	Mirex	8.856	9.789	4980238	3386713	50.296	50.297	
32)	Chlordane...	7.615	8.215	121428	3917092	6.880	270.756	#
33)	Chlordane...	7.703	8.331	7516340	247386	362.722	20.013	#
34)	Chlordane...	0.000	9.009	0	30817	N.D.	4.228	#
35)	Chlordane...	3.836	0.000	4864	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	7516340	3254721	9029.555	2906.049	#
37)	Toxaphene...	7.987	0.000	26461	0	17.560	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.522	9.009	34833	30817	6.408	BelowCal	#
40)	Toxaphene...	0.000	9.204	0	3795	N.D.	BelowCal	
41)	Toxaphene...	8.856	0.000	4980238	0	1641.779	N.D.	#
42)	Toxaphene...	3.836	0.000	4864	0	NoCal	N.D.	

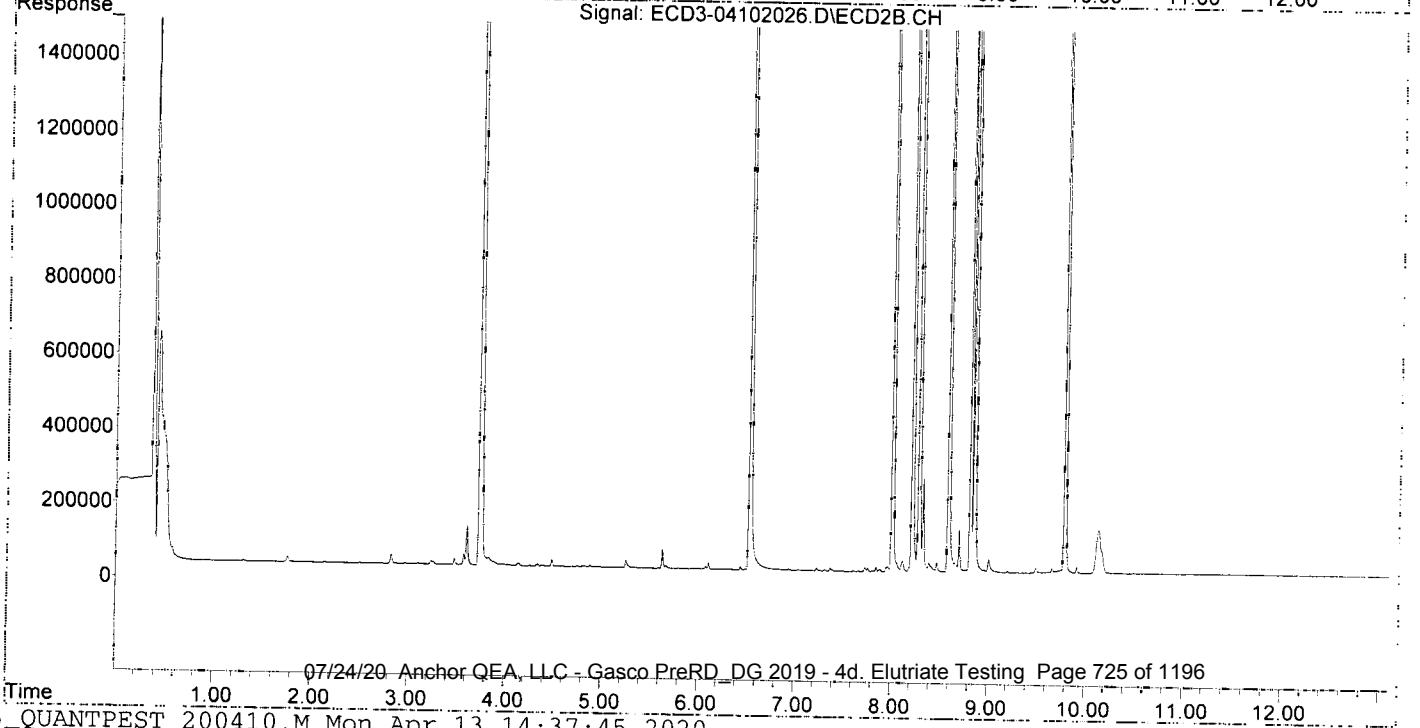
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:23
Operator : MJB
Sample : 0D10031-ICV2
Misc : A20C360, 9-42 50 ppb
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:40
Operator : MJB
Sample : 0D10031-IBL3
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/12/20

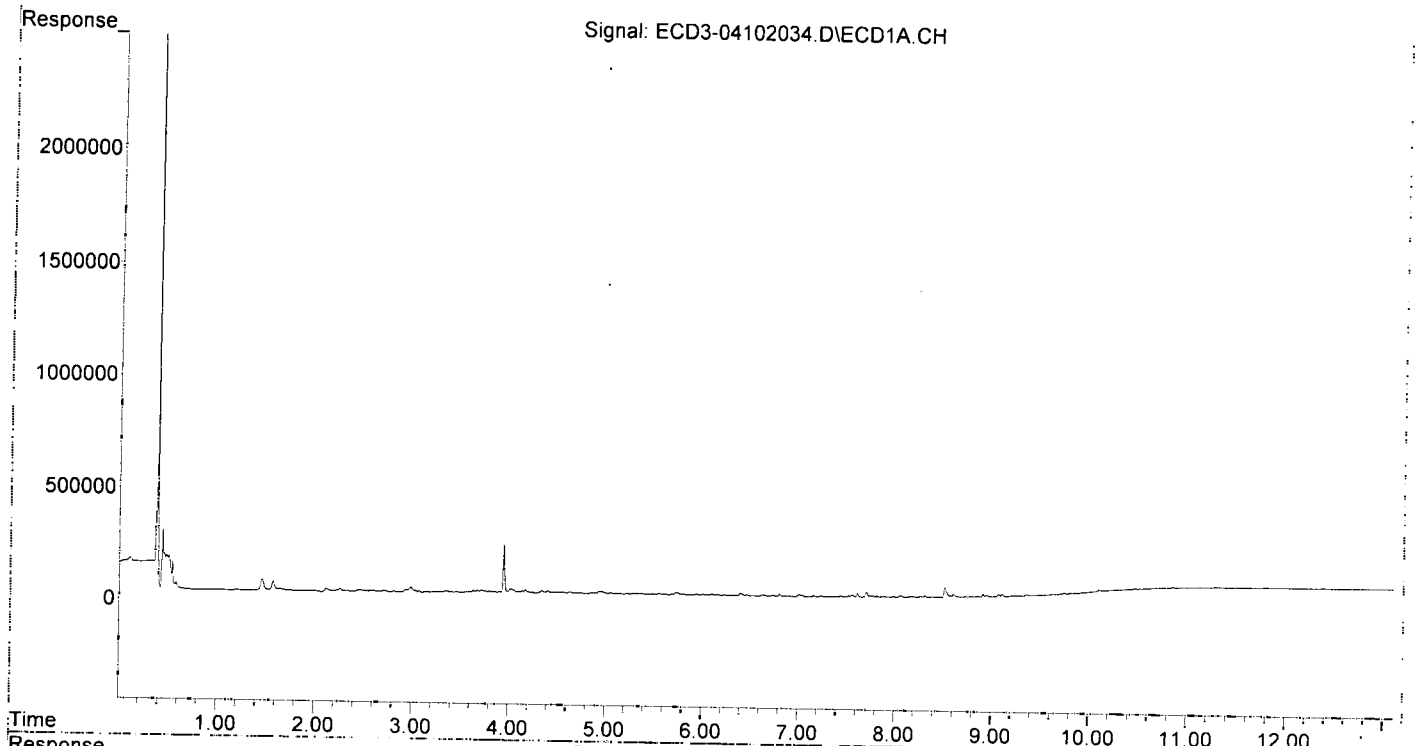
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D.	N.D.
22)	S DCBP (S)	9.804	0.000	3738	0	BelowCal	N.D.
	Target Compounds						
2)	a-BHC	6.103	6.669	6577	4074	0.033	0.026
3)	g-BHC	6.397	6.990	9407	3702	0.054	0.027 #
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	Heptachlor	6.804	7.367	10109	10150	0.062	0.090 #
6)	d-BHC	6.625	7.315	6011	6673	0.043	0.055
7)	Aldrin	0.000	7.635	0	3424	N.D.	0.026 #
8)	Heptachlo...	7.517	8.078	7017	3816	0.045	0.032
9)	trans-Chl...	7.612	8.218	18492	18128	0.118	0.150
10)	cis-Chlor...	7.707	8.327	22288	17339	0.142	0.150
11)	Endosulfa...	7.811	8.379	5041	3776	0.035	0.035
12)	4,4'-DDE	7.770	0.000	6165	0	0.043	N.D. #
13)	Dieldrin	0.000	8.582	0	5343	N.D.	0.045 #
14)	Endrin	8.175f	8.811	6079	4003	0.049	0.046
15)	4,4'-DDD	8.175f	8.854	6079	7559	0.050	0.080 #
16)	Endosulfa...	8.312	8.960	8281	7057	0.068	0.077
17)	4,4'-DDT	0.000	9.080	0	3933	N.D.	0.143 #
18)	Endrin Al...	8.605	9.198	13383	10273	BelowCal	~~3407.080~~
19)	Endosulfa...	8.909	9.390	12368	9400	0.103	0.112
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	9.107	9.793	11488	9390	0.080	0.098
23)	Hexachlor...	3.350	3.749	6438	8269	2108.665	~~830.027~~ #
24)	Hexachlor...	5.943	6.529	4412	3003	BelowCal	~~2197.601~~
25)	Oxychlordane	7.438	0.000	5998	0	BelowCal	N.D.
26)	2,4'-DDE	7.517	8.218	7017	18128	BelowCal	0.003
27)	trans-Non...	7.707	8.282	22288	13884	BelowCal	~~1953.437~~
28)	2,4'-DDD	0.000	8.582	0	5343	N.D.	~~3167.807~~ #
29)	2,4'-DDT	8.053f	8.811	6450	4003	0.086	0.075
30)	cis-Nonac...	8.175	8.854	6079	7559	BelowCal	~~2549.495~~
31)	Mirex	0.000	9.793	0	9390	N.D.	~~3567.390~~ #
32)	Chlordane...	7.612	8.218	18492	18128	1.048	1.253
33)	Chlordane...	7.707	8.327	22288	17339	1.076	1.403
34)	Chlordane...	8.263	9.005	5293	33720	0.995	5.035 #
35)	Chlordane...	0.000	3.824f	0	10786	N.D.	NoCal
36)	Toxaphene...	7.707f	8.582f	22288	5343	26.775	4.770 #
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38)	Toxaphene...	8.312	8.960	8281	7057	2.662	3.251
39)	Toxaphene...	8.516f	9.005	41614	33720	8.831	0.737 #
40)	Toxaphene...	0.000	9.198	0	10273	N.D.	2.410 #
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42)	Toxaphene...	0.000	3.824f	0	10786	N.D.	NoCal

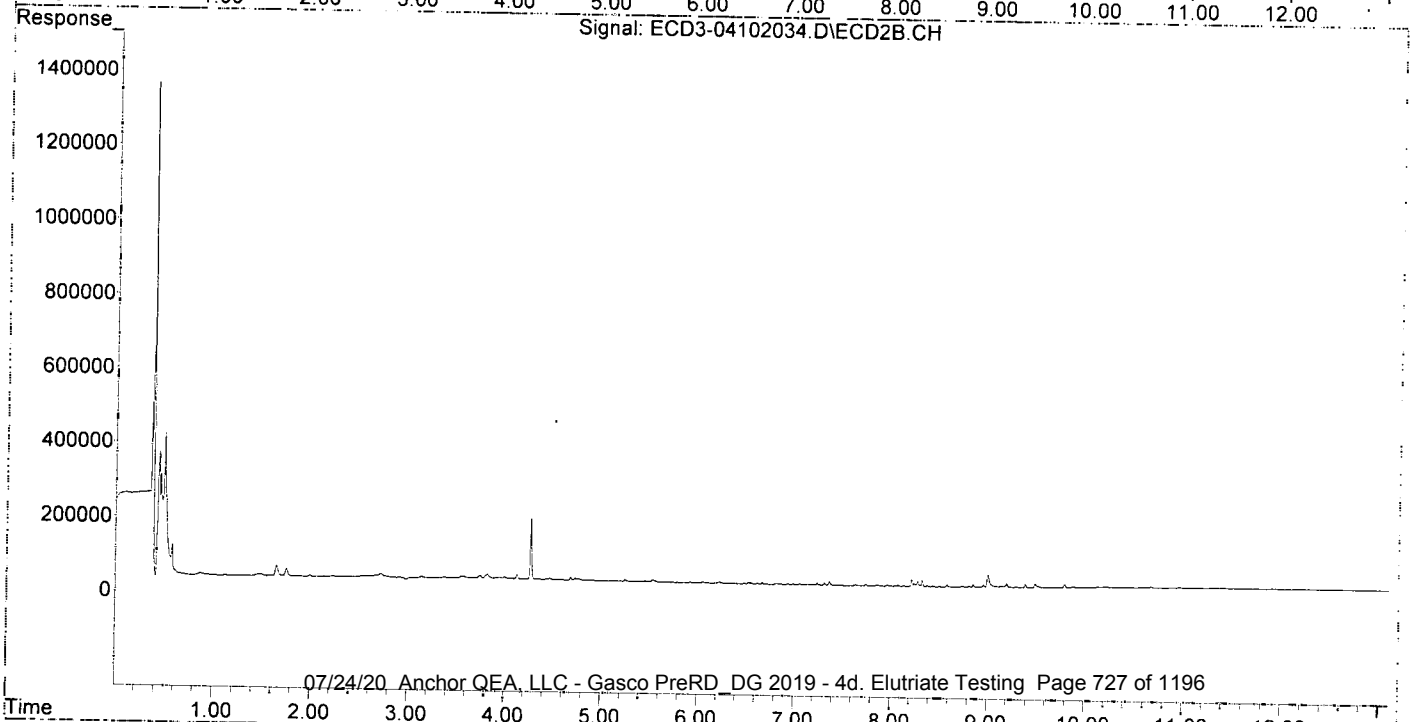
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:40
Operator : MJB
Sample : 0D10031-IBL3
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:57
Operator : MJB
Sample : 0D10031-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:52 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.070	0	14344	N.D.	1883.988	#
22)	S DCBP (S)	9.814	0.000	15678	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.092	6.696f	6776	162316	0.033	1.034	#
3)	g-BHC	6.405	6.998	17847	91391	0.103	0.678	#
4)	b-BHC	6.492f	7.049	117626	27631	1.724	0.450	#
5)	Heptachlor	6.803	7.367	4581465	3270284	27.979	28.889	
6)	d-BHC	6.609	7.299	73044	31910	0.520	0.261	#
7)	Aldrin	7.053	7.643	69620	52269	0.415	0.393	
8)	Heptachlo...	7.522	8.097	712478	212519	4.556	1.806	#
9)	trans-Chl...	7.612	8.218	9630684	7867683	61.202	65.236	
10)	cis-Chlor...	7.706	8.327	10999153	6304783	70.072	54.433	
11)	Endosulfa...	7.826	8.399	266238	117356	1.855	1.091	#
12)	4,4'-DDE	7.765	8.450	307977	208140	2.135	1.808	
13)	Dieldrin	7.996	8.581	334534	532579	2.082	4.448	#
14)	Endrin	8.137	8.806	176342	173697	1.429	2.009	#
15)	4,4'-DDD	8.175f	8.854	1747460	1287037	14.394	13.639	
16)	Endosulfa...	8.311	8.970	208649	151286	1.724	1.649	
17)	4,4'-DDT	8.438f	9.092	528994	60376	6.171	1.174	#
18)	Endrin Al...	8.626f	9.229f	65548	366027	0.413	4.321	#
19)	Endosulfa...	8.912	9.419f	123071	41408	1.022	0.492	#
20)	Methoxychlor	8.725	9.566	60407	11615	1.509	0.495	#
21)	Endrin Ke...	9.096	9.794	18705	72246	0.130	0.755	#
23)	Hexachlor...	3.361f	0.000	5671	0	2108.669	N.D.	#
24)	Hexachlor...	5.933	6.504f	8444	18698	BelowCal	2197.457	
25)	Oxychlordane	7.435	8.020	114190	127474	0.683	1.073	#
26)	2,4'-DDE	7.522	8.218	712478	7867683	7.699	106.774	#
27)	trans-Non...	7.706	8.283	10999153	5939785	76.070	55.152	
28)	2,4'-DDD	7.863f	8.581	787639	532579	9.455	7.726	
29)	2,4'-DDT	8.106f	8.806	269279	173697	3.577	3.238	
30)	cis-Nonac...	8.175	8.854	1747460	1287037	11.192	10.874	
31)	Mirex	8.840	9.794	20621	72246	7125.676	0.653	# A
32)	Chlordane...	7.612	8.218	9630684	7867683	545.633	543.828	
33)	Chlordane...	7.706	8.327	10999153	6304783	530.795	510.039	542.35
34)	Chlordane...	8.263	8.996	2929630	2073139	550.608	571.407	
35)	Chlordane...	0.000	3.828f	0	4511	N.D.	NoCal	
36)	Toxaphene...	7.706f	8.581f	10999153	532579	13213.540	475.525	#
37)	Toxaphene...	7.996	8.911	334534	215476	222.011	157.966	
38)	Toxaphene...	8.311	8.947	208649	176996	67.082	81.552	
39)	Toxaphene...	8.543	8.996	136735	2073139	42.768	639.229	#
40)	Toxaphene...	8.753	9.168	63337	46525	26.893	22.442	
41)	Toxaphene...	8.840	9.566	20621	11615	6.798	5.739	
42)	Toxaphene...	0.000	3.828f	0	4511	N.D.	NoCal	

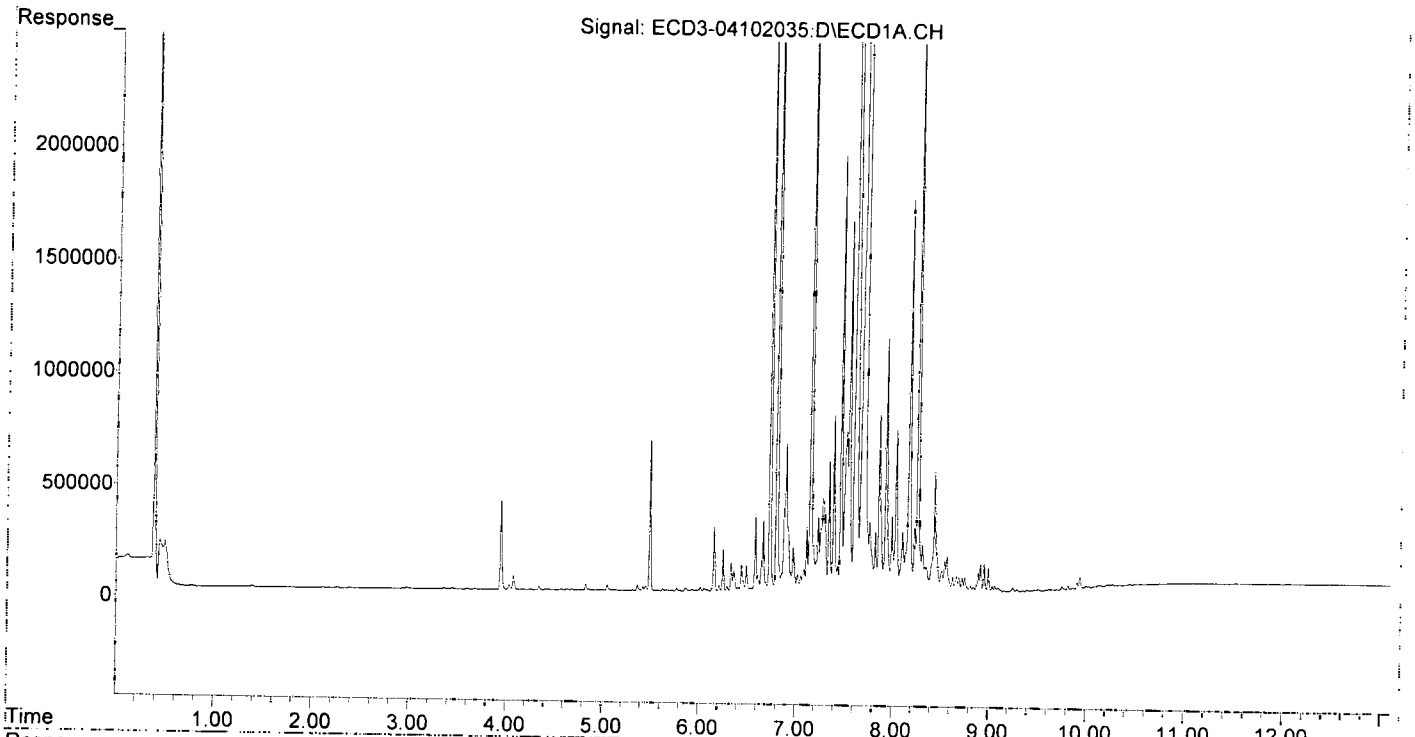
B — 541.76

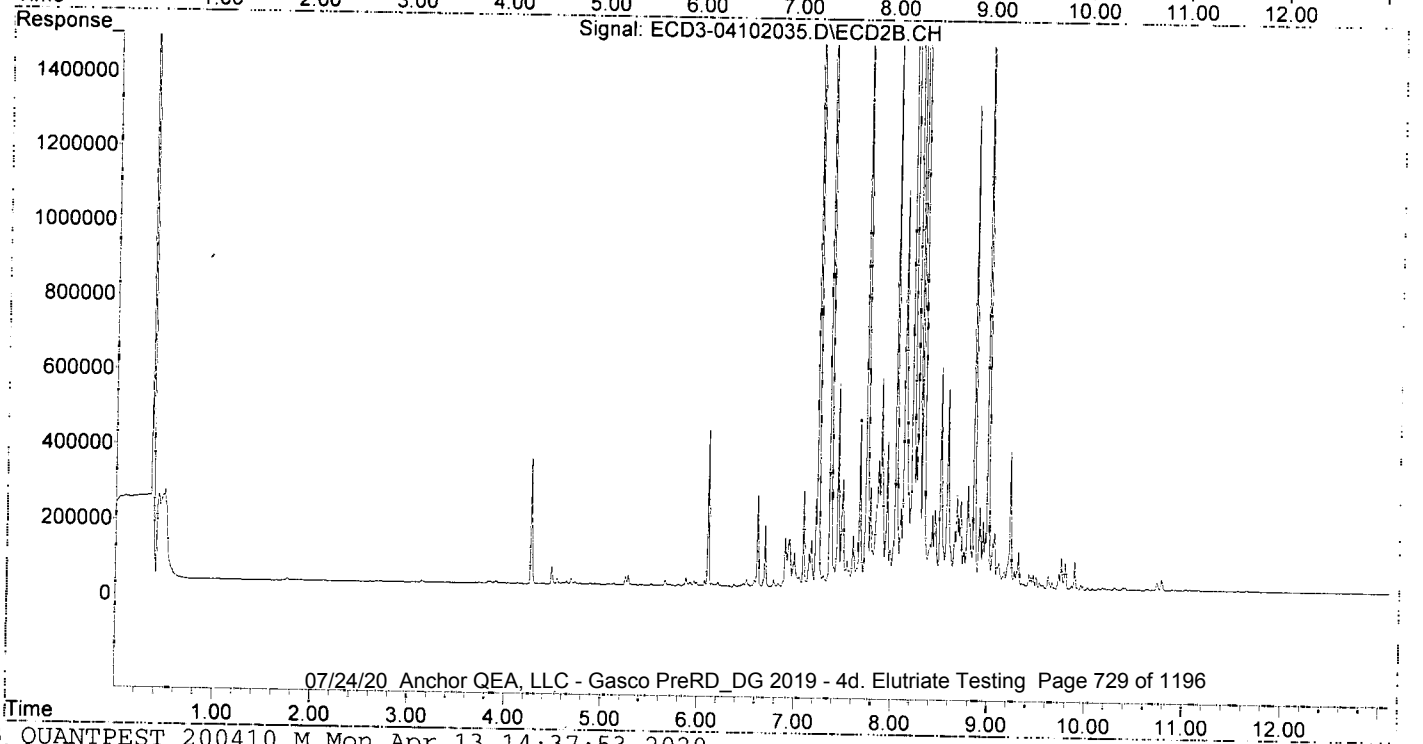
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:57
Operator : MJB
Sample : 0D10031-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:52 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:13
Operator : MJB
Sample : 0D10031-IBL4
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

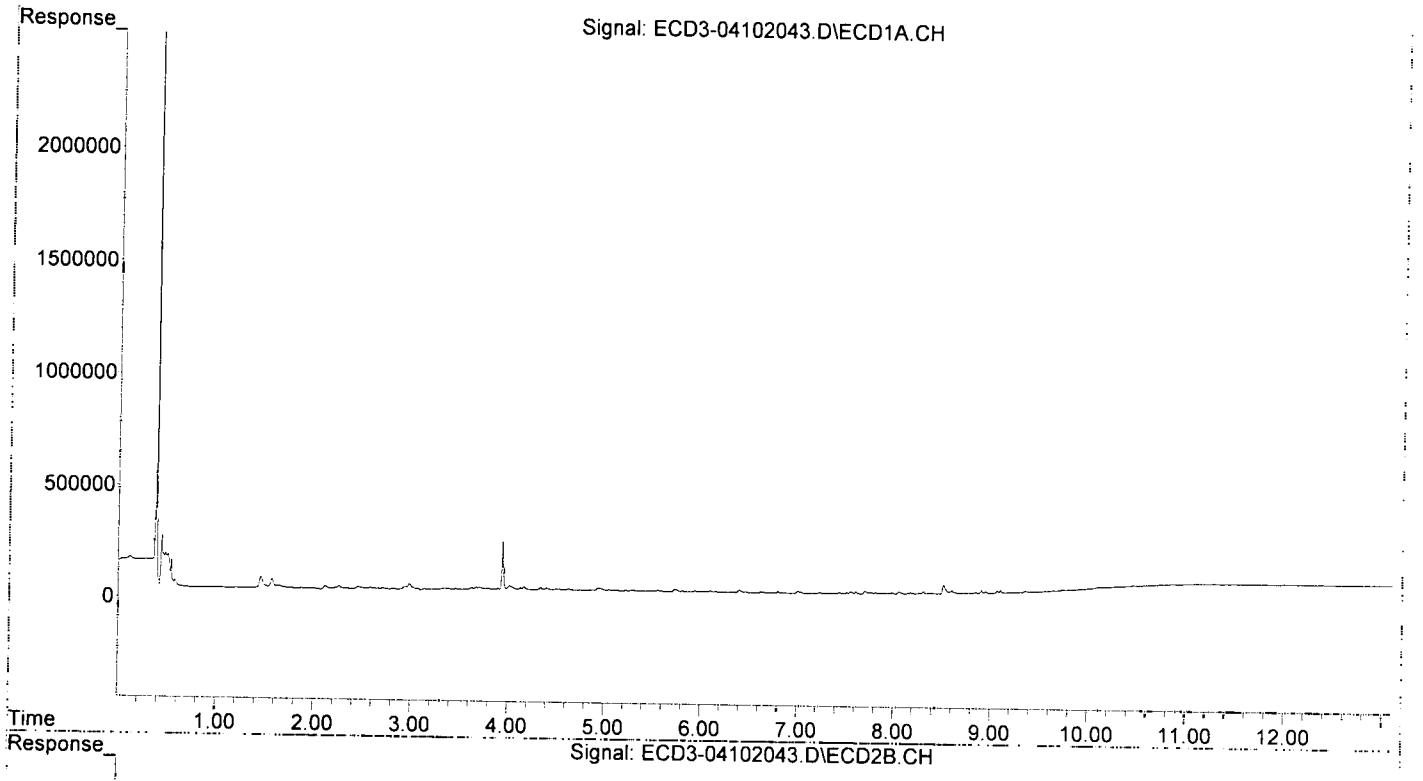
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.557	6.057	5422	3396	0.037	~~1884.084~~	#
22)	S DCBP (S)	9.802	0.000	3539	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.101	6.668	6919	4023	0.034	0.026	
3)	g-BHC	6.397	6.989	8499	3669	0.049	0.027	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.802	7.366	6636	7495	0.041	0.066	#
6)	d-BHC	6.624	7.313	3511	6266	0.025	0.051	#
7)	Aldrin	0.000	7.634	0	3281	N.D.	0.025	#
8)	Heptachlo...	7.515	8.077	6673	3934	0.043	0.033	
9)	trans-Chl...	7.610	8.217	10178	9909	0.065	0.082	
10)	cis-Chlor...	7.706	8.325	12570	9945	0.080	0.086	
11)	Endosulfa...	7.810	8.378	6170	3559	0.043	0.033	
12)	4,4'-DDE	7.769	0.000	6577	0	0.046	N.D.	#
13)	Dieldrin	7.982	8.581	6698	5025	0.042	0.042	
14)	Endrin	8.174	8.809	5309	4637	0.043	0.054	
15)	4,4'-DDD	8.174f	8.852	5309	6071	0.044	0.064	#
16)	Endosulfa...	8.309	8.959	9230	6477	0.076	0.071	
17)	4,4'-DDT	0.000	9.079	0	3742	N.D.	0.139	#
18)	Endrin Al...	8.603	9.197	12901	10746	BelowCal	~~3407.074~~	
19)	Endosulfa...	8.908	9.389	12299	8997	0.102	0.107	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.105	9.791	11553	9511	0.080	0.099	
23)	Hexachlor...	0.000	3.747	0	7719	N.D.	~~838.030~~	#
24)	Hexachlor...	5.941	6.527	4399	3193	BelowCal	~~2197.599~~	
25)	Oxychlordane	7.437	0.000	6516	0	BelowCal	N.D.	
26)	2,4'-DDE	7.515	8.217	6673	9909	BelowCal	~~2144.855~~	
27)	trans-Non...	7.706	8.280	12570	7484	BelowCal	~~1953.495~~	
28)	2,4'-DDD	0.000	8.581	0	5025	N.D.	~~3167.811~~	#
29)	2,4'-DDT	8.052f	8.809	7382	4637	0.098	0.086	
30)	cis-Nonac...	8.174	8.852	5309	6071	BelowCal	~~2549.507~~	
31)	Mirex	8.847	9.791	4198	9511	~~7125.842~~	~~3567.388~~	#
32)	Chlordane...	7.610	8.217	10178	9909	0.577	0.685	
33)	Chlordane...	7.706	8.325	12570	9945	0.607	0.805	
34)	Chlordane...	0.000	9.005	0	33185	N.D.	4.887	#
35)	Chlordane...	0.000	3.822f	0	10371	N.D.	NoCal	
36)	Toxaphene...	7.706f	8.581f	12570	5025	15.101	4.487	#
37)	Toxaphene...	7.982	0.000	6698	0	4.445	N.D.	#
38)	Toxaphene...	8.309	8.959	9230	6477	2.967	2.984	
39)	Toxaphene...	8.516f	9.005	39923	33185	8.227	0.565	#
40)	Toxaphene...	0.000	9.197	0	10746	N.D.	2.672	#
41)	Toxaphene...	8.847	0.000	4198	0	1.384	N.D.	#
42)	Toxaphene...	0.000	3.822f	0	10371	N.D.	NoCal	

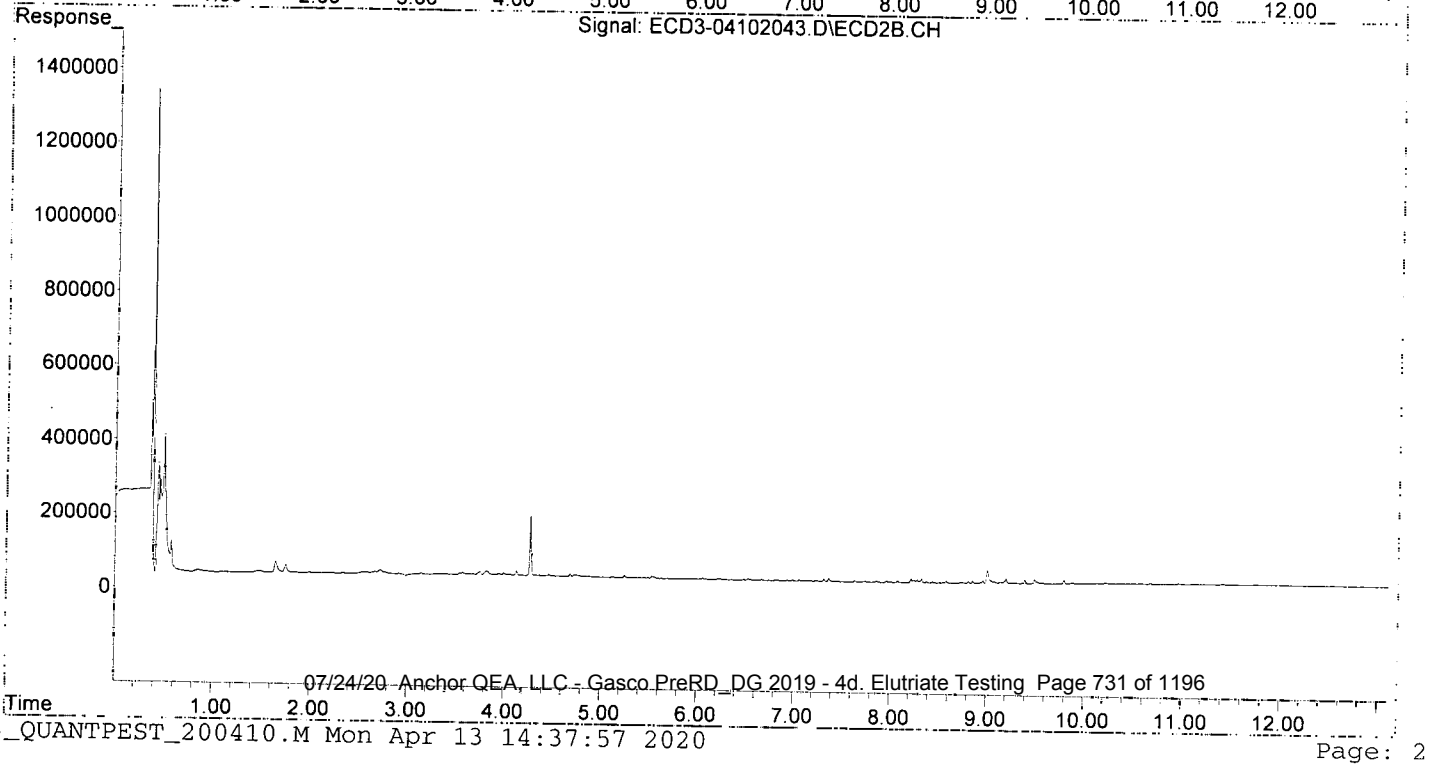
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:13
Operator : MJB
Sample : 0D10031-IBL4
Misc : Instrument Blank
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:37:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:30
Operator : MJB
Sample : 0D10031-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:38:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.067	0	12686	N.D.	1884.002	#
22)	S DCBP (S)	9.797	10.651f	32572	22426	0.071	0.089	
	Target Compounds							
2)	a-BHC	6.095	6.670	5011	6638	0.025	0.042	#
3)	g-BHC	6.397	6.974	7944	12099	0.046	0.090	#
4)	b-BHC	6.458	7.039	16411	18340	0.241	0.299	
5)	Heptachlor	6.804	7.367	26012	28764	0.159	0.254	#
6)	d-BHC	6.638	7.309	16214	26494	0.116	0.217	#
7)	Aldrin	7.044	7.662f	57262	63748	0.342	0.480	#
8)	Heptachlo...	7.517	8.069	155890	198330	0.997	1.685	#
9)	trans-Chl...	7.628	8.198f	317293	218076	2.016	1.808	
10)	cis-Chlor...	7.735f	8.351	351246	231175	2.238	1.996	
11)	Endosulfa...	7.813	8.382	520398	277328	3.626	2.579	
12)	4,4'-DDE	7.735f	8.448	351246	337739	2.435	2.933	
13)	Dieldrin	7.982	8.596	751689	338844	4.677	2.830	
14)	Endrin	8.173	8.803	1085084	590357	8.796	6.829	
15)	4,4'-DDD	8.212	8.855	737102	415783	6.071	4.406	
16)	Endosulfa...	8.298	8.942f	1657841	1121069	13.695	12.223	
17)	4,4'-DDT	8.380	9.073	1471030	438558	16.577	7.969	#
18)	Endrin Al...	8.588	9.188	1115545	1006060	10.623	12.328	
19)	Endosulfa...	8.910	9.390	616228	420916	5.116	5.000	
20)	Methoxychlor	8.740	9.572	566076	1062498	13.478	38.051	#
21)	Endrin Ke...	9.097	9.815	424511	216557	2.947	2.263	
23)	Hexachlor...	3.335	3.730	5034	5437	2108.673	838.044	#
24)	Hexachlor...	0.000	6.526	0	4077	N.D.	2197.591	#
25)	Oxychlordane	7.443	8.019	342635	184254	2.448	1.648	
26)	2,4'-DDE	7.517	8.198	155890	218076	1.545	2.591	#
27)	trans-Non...	7.684	8.292	414776	224827	2.690	1.819	
28)	2,4'-DDD	7.900	8.596	581540	338844	6.926	4.805	
29)	2,4'-DDT	8.088	8.825	932013	336018	12.381	6.264	#
30)	cis-Nonac...	8.173	8.855	1085084	415783	6.874	3.343	#
31)	Mirex	8.840	9.815f	1623067	216557	16.063	2.785	#
32)	Chlordane...	7.628	8.198f	317293	218076	17.976	15.074	
33)	Chlordane...	7.684f	8.351f	414776	231175	20.016	18.701	
34)	Chlordane...	8.238f	9.010	717963	1803266	134.937	496.518	#
35)	Chlordane...	0.000	3.828f	0	3988	N.D.	NoCal	
36)	Toxaphene...	7.684	8.557	414776	574937	498.280	513.345	
37)	Toxaphene...	7.982	8.906	751689	722451	498.853	529.631	
38)	Toxaphene...	8.298	8.942	1657841	1121069	533.005	516.540	
39)	Toxaphene...	8.540	9.010	1556043	1803266	535.746	556.379	
40)	Toxaphene...	8.772	9.188	1286347	1006060	546.190	545.230	
41)	Toxaphene...	8.840	9.572	1623067	1062498	535.058	524.951	
42)	Toxaphene...	0.000	3.828f	0	3988	N.D.	NoCal	

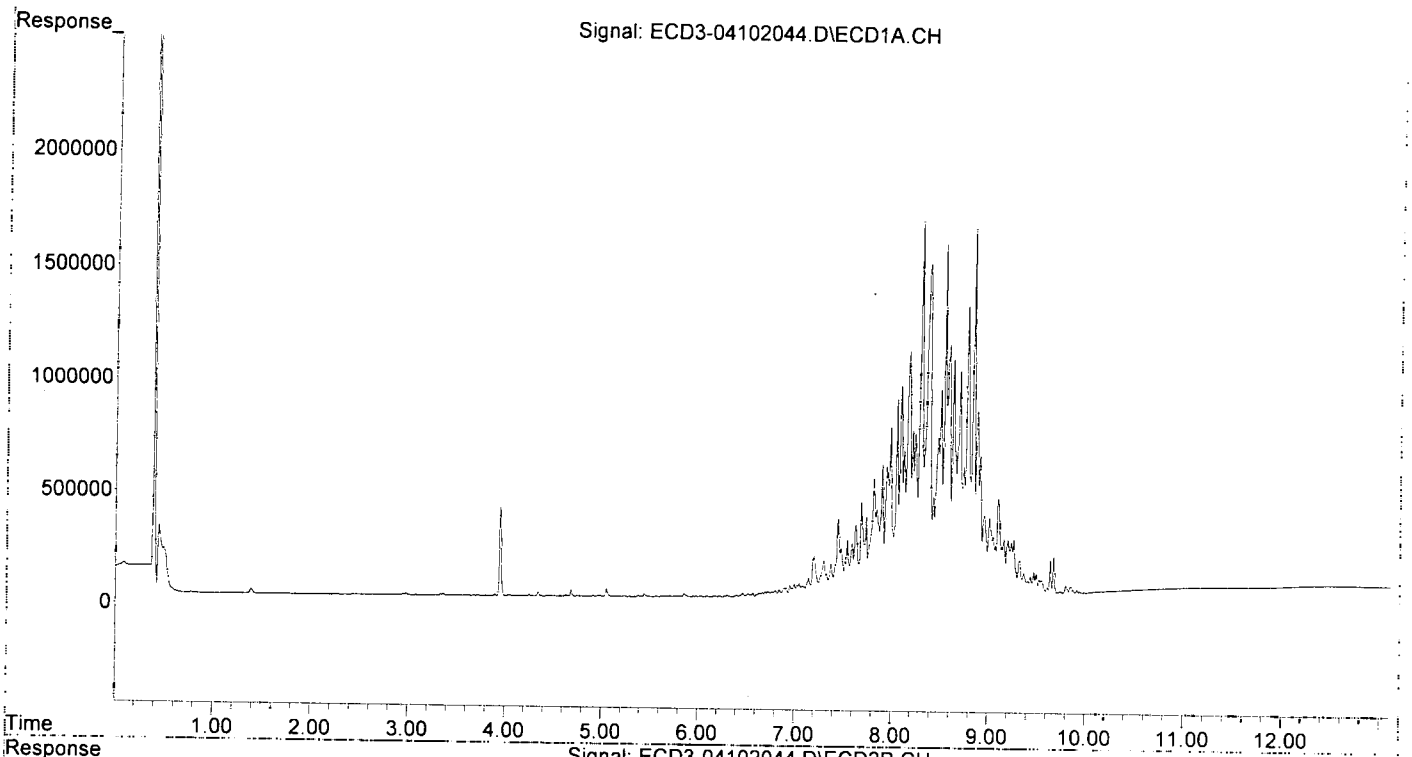
A B
524.52 531.01

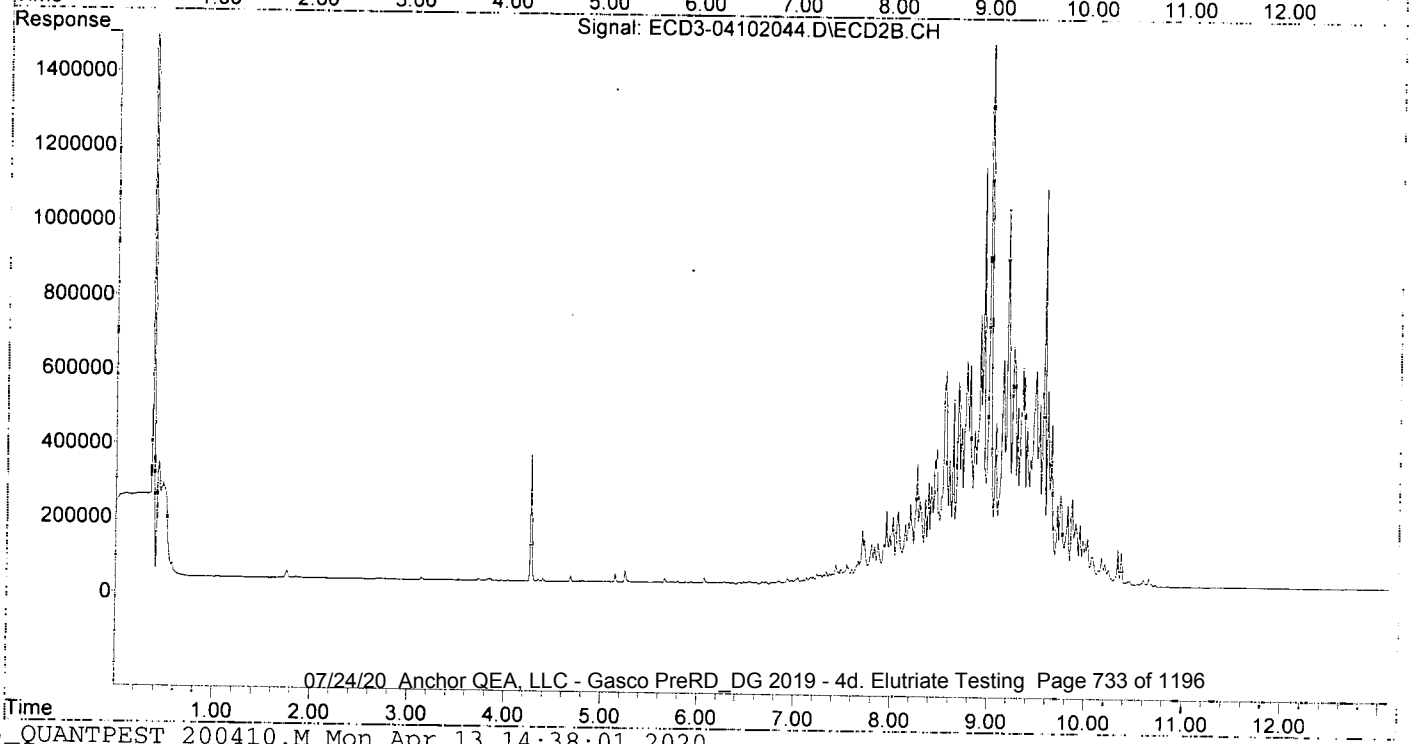
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 23:30
Operator : MJB
Sample : 0D10031-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 14:38:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

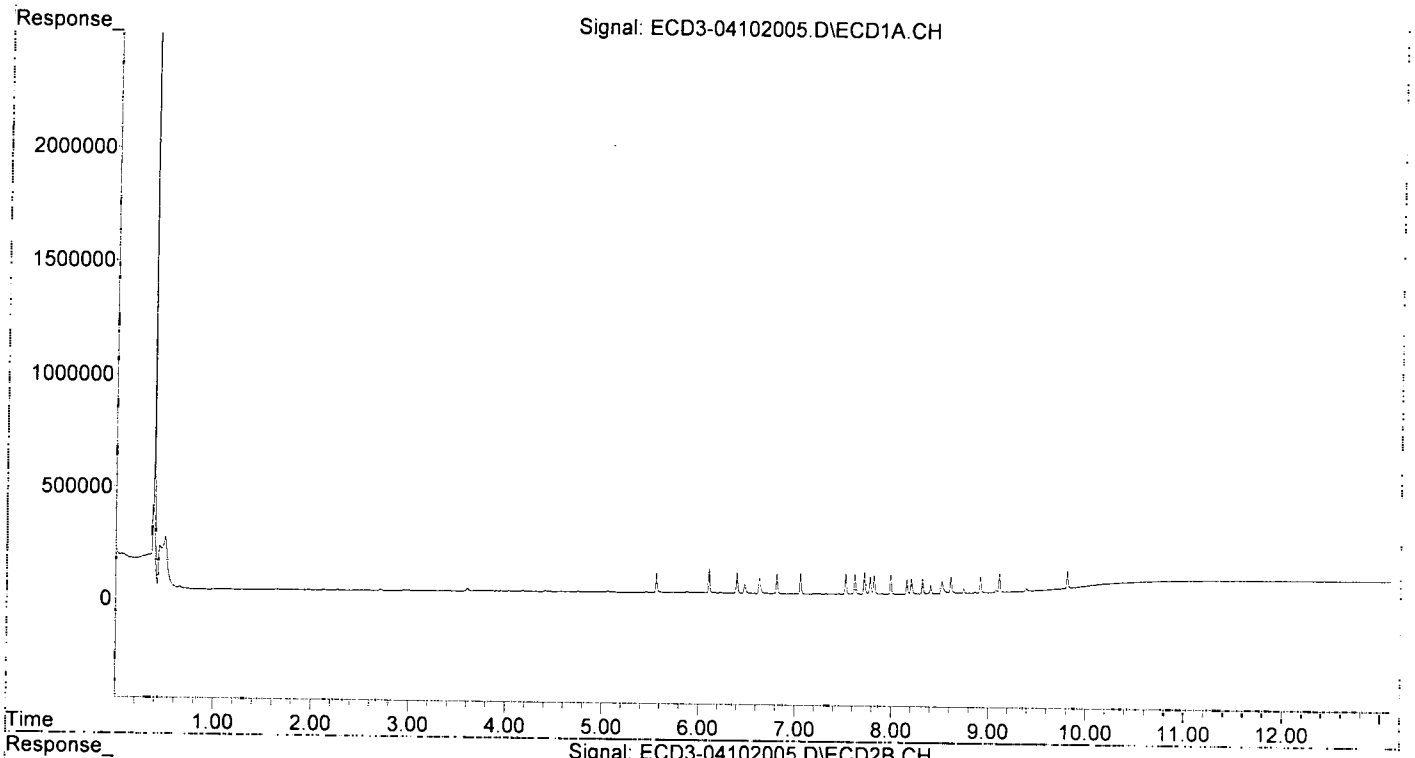
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.561	6.060	85749	73007	0.579	0.504	
22) S	DCBP (S)	9.806	10.678	78745	50449	0.493	0.505	
	Target Compounds							
2)	a-BHC	6.107	6.672	106090	87452	0.524	0.557	
3)	g-BHC	6.394	6.993	91195	75918	0.528	0.564	
4)	b-BHC	6.474	7.059	37211	37170	0.545	0.605	
5)	Heptachlor	6.809	7.371	88422	63633	0.540	0.562	
6)	d-BHC	6.628	7.317	66268	66365	0.472	0.543	
7)	Aldrin	7.054	7.640	92070	76126	0.549	0.573	
8)	Heptachlo...	7.520	8.081	91327	69830	0.584	0.593	
9)	trans-Chl...	7.617	8.222	87797	71156	0.558	0.590	
10)	cis-Chlor...	7.714	8.330	98925	70102	0.630	0.605	
11)	Endosulfa...	7.815	8.382	82435	65843	0.574	0.612	
12)	4,4'-DDE	7.774	8.437	76638	64334	0.531	0.559	
13)	Dieldrin	7.988	8.584	86632	68980	0.539	0.576	
14)	Endrin	8.155	8.813	63369	47079	0.514	0.545	
15)	4,4'-DDD	8.201	8.857	67675	58722	0.557	0.622	
16)	Endosulfa...	8.315	8.962	67076	55230	0.554	0.602	
17)	4,4'-DDT	8.399	9.084	37407	24779	0.528	0.524	
18)	Endrin Al...	8.608	9.201	73553	58732	0.491	0.490	
19)	Endosulfa...	8.913	9.392	72456	50159	0.601	0.596	
20)	Methoxychlor	8.738	9.568	19411	11909	0.512	0.506	
21)	Endrin Ke...	9.110	9.796	83435	57366	0.579	0.600	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.520	8.222	91327	71156	0.829	0.689	
27)	trans-Non...	7.714	0.000	98925	0	0.483	N.D.	#
28)	2,4'-DDD	0.000	8.584	0	68980	N.D.	0.746	#
29)	2,4'-DDT	0.000	8.813	0	47079	N.D.	0.878	#
30)	cis-Nonac...	8.201f	8.857	67675	58722	0.231	0.270	
31)	Mirex	0.000	9.796	0	57366	N.D.	0.433	#
32)	Chlordane...	7.617	8.222	87797	71156	4.974	4.918	
33)	Chlordane...	7.714	8.330	98925	70102	4.774	5.671	
34)	Chlordane...	0.000	9.004	0	43849	N.D.	7.851	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.714f	8.584f	98925	68980	118.841	61.590	#
37)	Toxaphene...	7.988	0.000	86632	0	57.493	N.D.	#
38)	Toxaphene...	8.315	8.962f	67076	55230	21.565	25.447	
39)	Toxaphene...	8.516f	9.004	52208	43849	12.617	3.981	#
40)	Toxaphene...	8.738f	9.201	19411	58732	8.242	29.183	#
41)	Toxaphene...	0.000	9.568	0	11909	N.D.	5.884	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

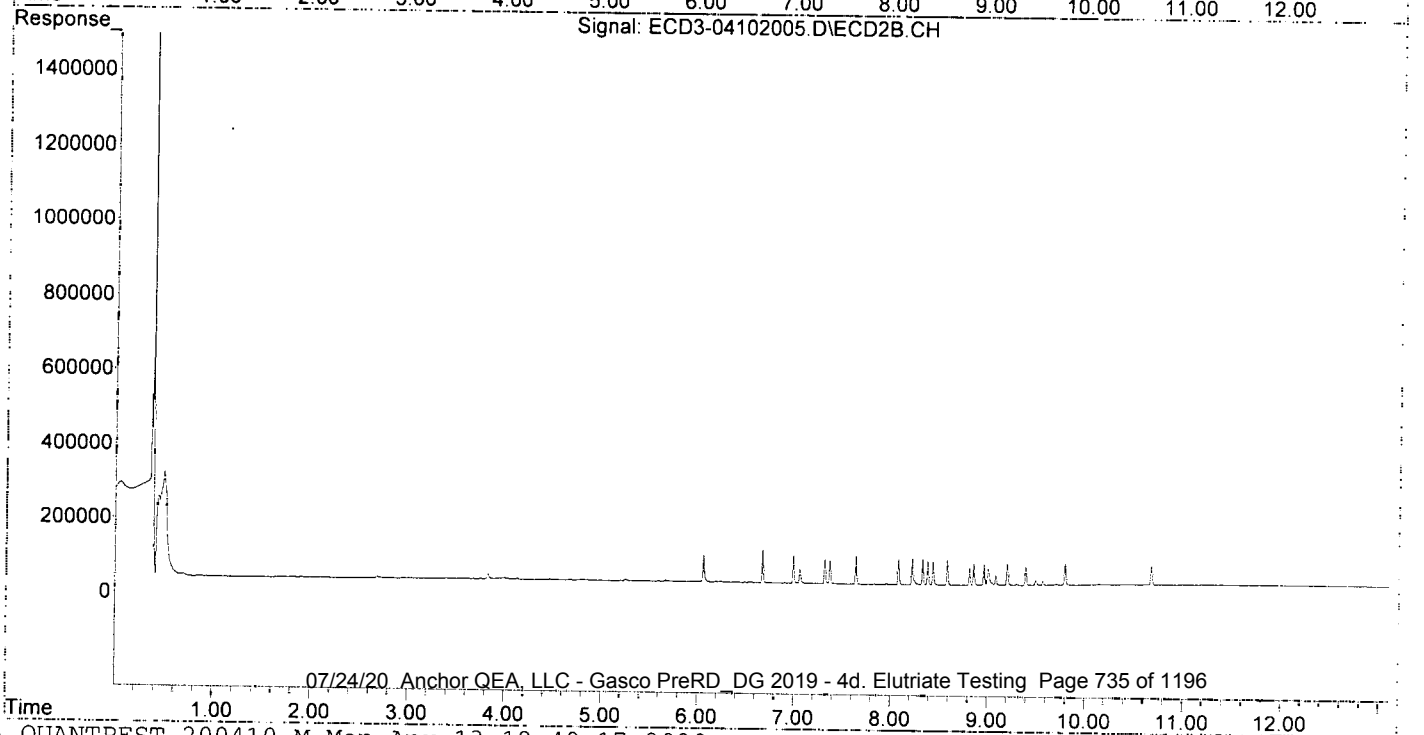
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:39:22 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:07 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

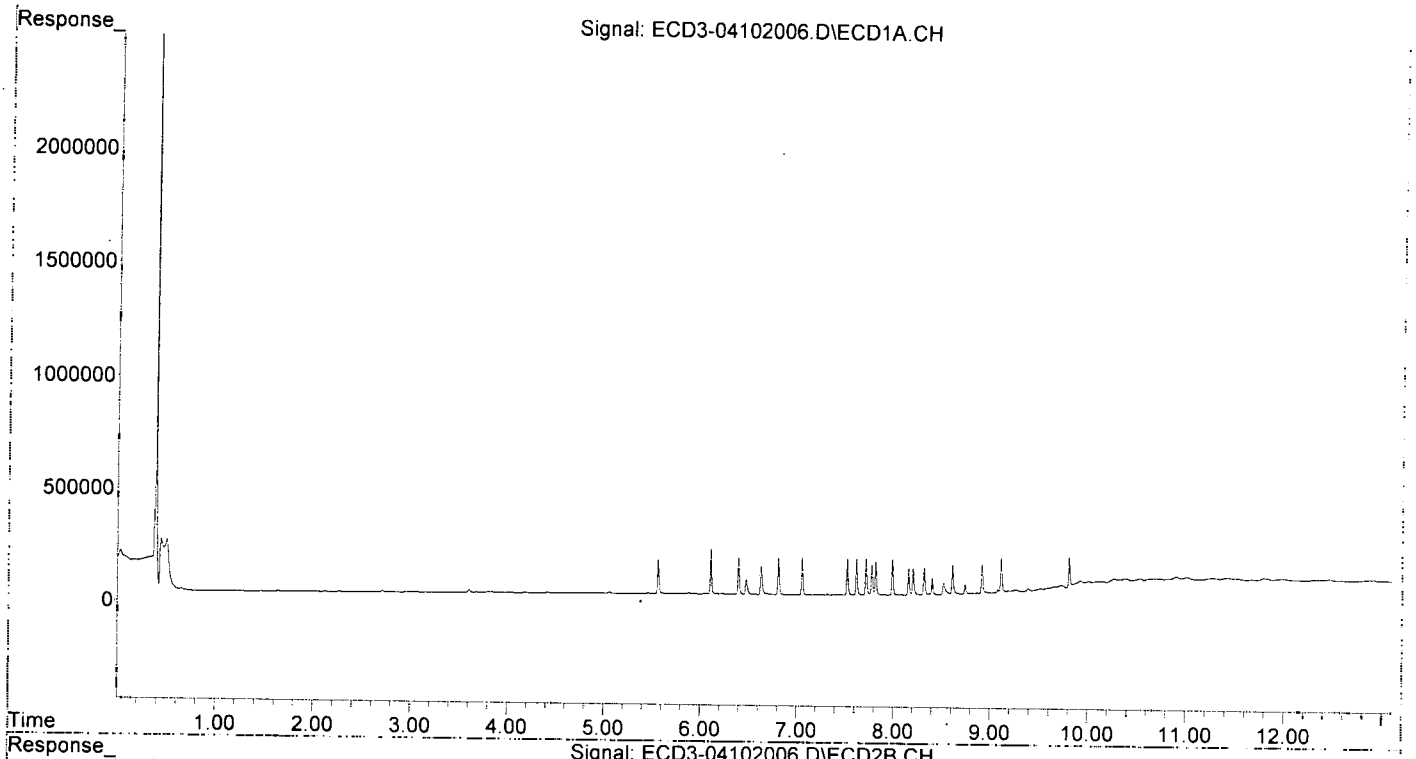
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.562	6.061	150599	127191	1.017	0.980	
22) S	DCBP (S)	9.808	10.679	135418	81619	1.011	0.967	
	Target Compounds							
2)	a-BHC	6.107	6.672	198771	160189	0.983	1.020	
3)	g-BHC	6.394	6.994	162951	137359	0.944	1.020	
4)	b-BHC	6.474	7.060	66101	66254	0.969	1.079	
5)	Heptachlor	6.809	7.371	162313	116127	0.991	1.026	
6)	d-BHC	6.628	7.317	123295	118368	0.878	0.968	
7)	Aldrin	7.054	7.640	165393	136778	0.987	1.029	
8)	Heptachlo...	7.521	8.082	160396	122009	1.026	1.037	
9)	trans-Chl...	7.617	8.223	160412	126502	1.019	1.049	
10)	cis-Chlor...	7.715	8.331	162363	124533	1.034	1.075	
11)	Endosulfa...	7.816	8.383	145356	110124	1.013	1.024	
12)	4,4'-DDE	7.775	8.438	132356	115967	0.918	1.007	
13)	Dieldrin	7.988	8.585	160736	120867	1.000	1.009	
14)	Endrin	8.156	8.815	118800	86799	0.963	1.004	
15)	4,4'-DDD	8.202	8.858	118335	101471	0.975	1.075	
16)	Endosulfa...	8.316	8.964	119697	95182	0.989	1.038	
17)	4,4'-DDT	8.400	9.085	73450	49721	0.947	0.980	
18)	Endrin Al...	8.609	9.203	127313	100085	1.014	1.005	
19)	Endosulfa...	8.913	9.393	126416	88344	1.049	1.049	
20)	Methoxychlor	8.739	9.568	39011	24923	0.989	1.010	
21)	Endrin Ke...	9.111	9.797	152949	100622	1.062	1.052	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.521	8.223	160396	126502	1.595	1.405	
27)	trans-Non...	7.715	0.000	162363	0	0.926	N.D.	#
28)	2,4'-DDD	0.000	8.585	0	120867	N.D.	1.525	#
29)	2,4'-DDT	0.000	8.815	0	86799	N.D.	1.618	#
30)	cis-Nonac...	8.202f	8.858	118335	101471	0.562	0.637	
31)	Mirex	0.000	9.797	0	100622	N.D.	1.072	#
32)	Chlordane...	7.617	8.223	160412	126502	9.088	8.744	
33)	Chlordane...	7.715	8.331	162363	124533	7.835	10.074	
34)	Chlordane...	0.000	9.006	0	41216	N.D.	7.119	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.715f	8.585f	162363	120867	195.050	107.918	#
37)	Toxaphene...	7.988	0.000	160736	0	106.671	N.D.	#
38)	Toxaphene...	8.316	8.964f	119697	95182	38.483	43.856	
39)	Toxaphene...	8.517f	9.006	48313	41216	11.225	3.138	#
40)	Toxaphene...	8.739f	9.203	39011	100085	16.564	52.000	#
41)	Toxaphene...	0.000	9.568	0	24923	N.D.	12.314	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

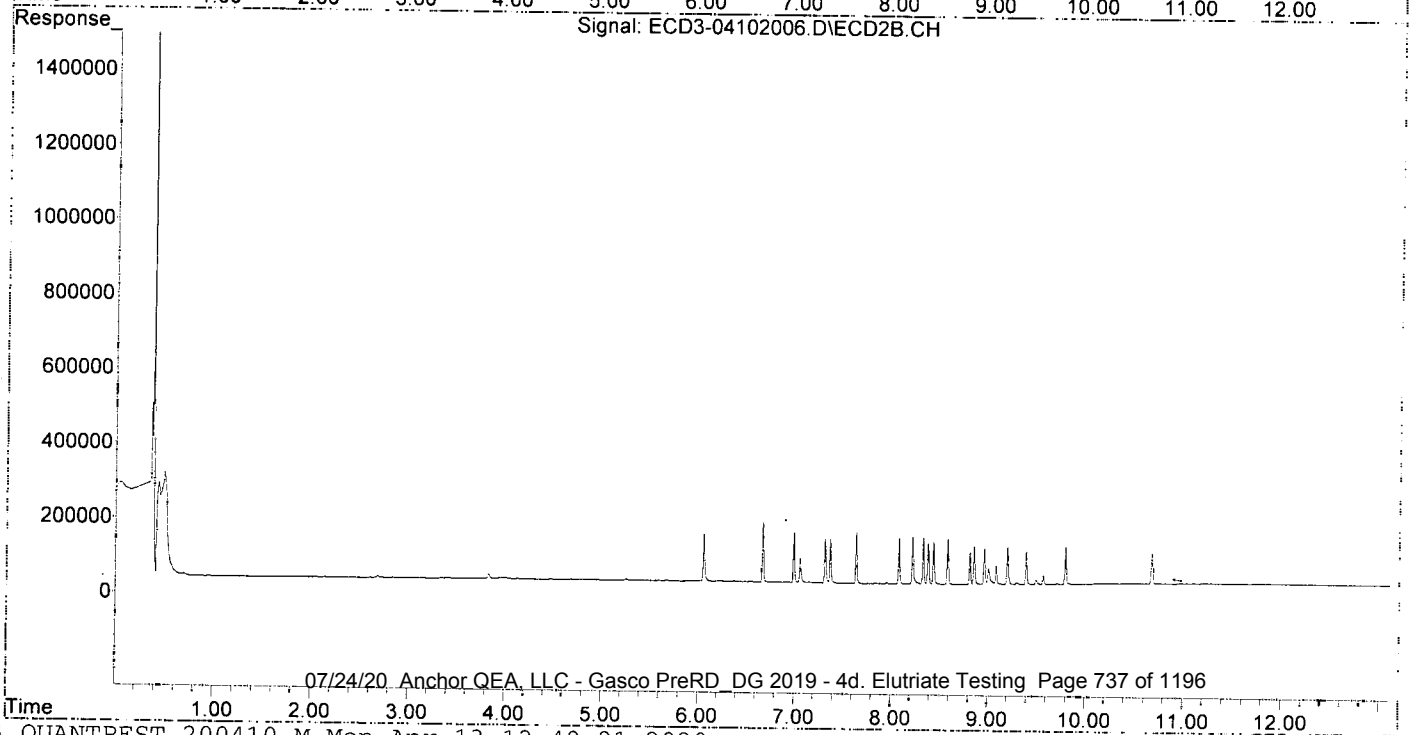
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:07 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

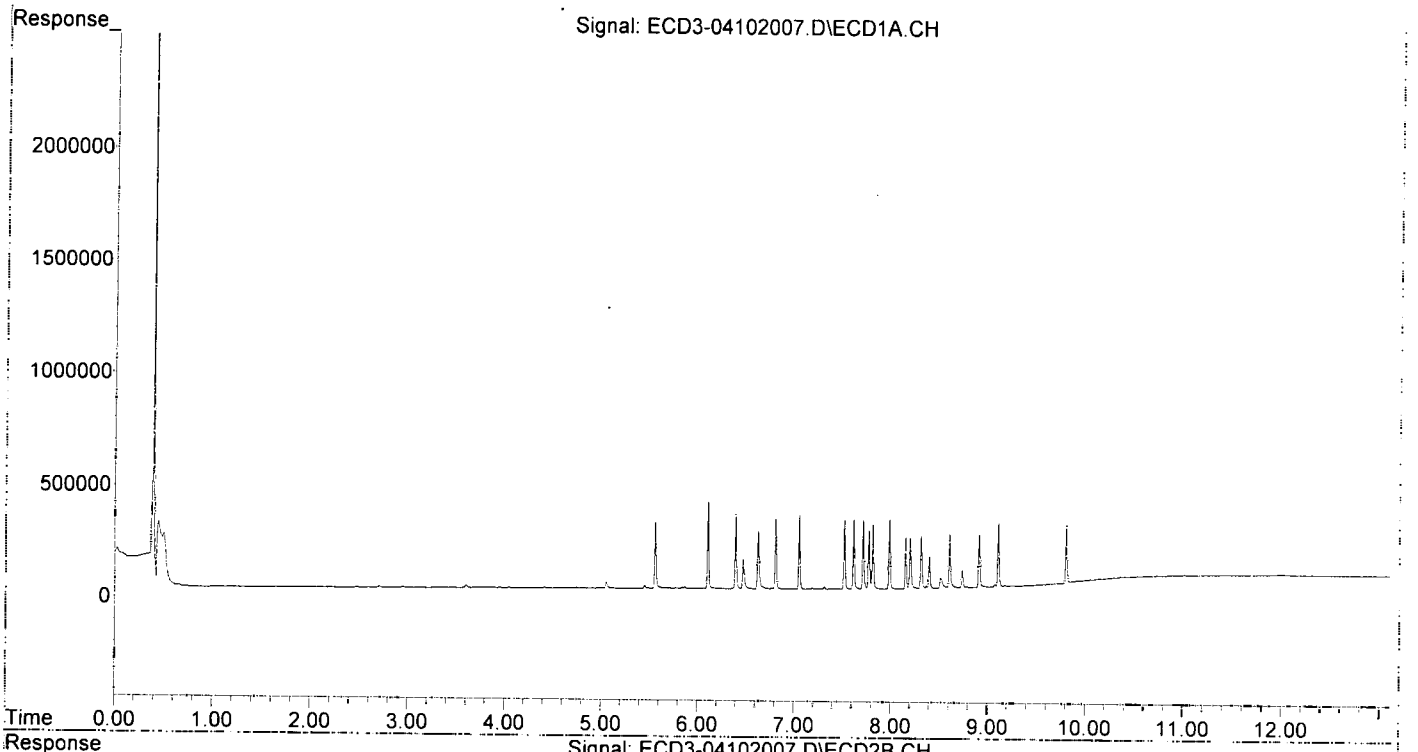
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.562	6.061	294629	242169	1.989	1.992	
22)	S	DCBP (S)	9.807	10.679	249594	153175	2.054	2.029	
		Target Compounds							
2)		a-BHC	6.107	6.673	386030	318129	1.908	2.027	
3)		g-BHC	6.395	6.994	330735	271046	1.915	2.012	
4)		b-BHC	6.473	7.059	133460	127912	1.956	2.083	
5)		Heptachlor	6.809	7.371	311735	223319	1.904	1.973	
6)		d-BHC	6.628	7.317	258031	234036	1.838	1.915	
7)		Aldrin	7.054	7.640	330949	268918	1.974	2.024	
8)		Heptachlo...	7.521	8.082	311852	241069	1.994	2.048	
9)		trans-Chl...	7.617	8.223	308851	240690	1.963	1.996	
10)		cis-Chlor...	7.714	8.331	309955	235252	1.975	2.031	
11)		Endosulfa...	7.815	8.382	284291	219822	1.981	2.044	
12)		4,4'-DDE	7.774	8.438	264579	230910	1.834	2.005	
13)		Dieldrin	7.988	8.585	311986	236771	1.941	1.977	
14)		Endrin	8.155	8.814	233183	167127	1.890	1.933	
15)		4,4'-DDD	8.201	8.857	229102	184447	1.887	1.955	
16)		Endosulfa...	8.315	8.963	233441	182611	1.928	1.991	
17)		4,4'-DDT	8.399	9.085	145442	89330	1.782	1.701	
18)		Endrin Al...	8.608	9.202	237806	191739	2.089	2.147	
19)		Endosulfa...	8.913	9.393	233112	166426	1.935	1.977	
20)		Methoxychlor	8.739	9.568	74306	46818	1.846	1.855	
21)		Endrin Ke...	9.110	9.797	285336	188983	1.981	1.975	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)		2,4'-DDE	7.521	8.223	311852	240690	3.272	2.884	
27)		trans-Non...	7.714	0.000	309955	0	1.958	N.D.	#
28)		2,4'-DDD	0.000	8.585	0	236771	N.D.	3.269	#
29)		2,4'-DDT	0.000	8.814	0	167127	N.D.	3.116	#
30)		cis-Nonac...	8.201f	8.857	229102	184447	1.286	1.351	
31)		Mirex	0.000	9.797	0	188983	N.D.	2.378	#
32)		Chlordane...	7.617	8.223	308851	240690	17.498	16.637	
33)		Chlordane...	7.714	8.331	309955	235252	14.958	19.031	
34)		Chlordane...	0.000	9.006	0	41993	N.D.	7.335	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.714f	8.585f	309955	236771	372.356	211.406	#
37)		Toxaphene...	7.988	0.000	311986	0	207.047	N.D.	#
38)		Toxaphene...	8.315	8.963f	233441	182611	75.052	84.139	
39)		Toxaphene...	8.517f	9.006	46637	41993	10.627	3.387	#
40)		Toxaphene...	8.739f	9.202	74306	191739	31.551	102.474	#
41)		Toxaphene...	0.000	9.568	0	46818	N.D.	23.132	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

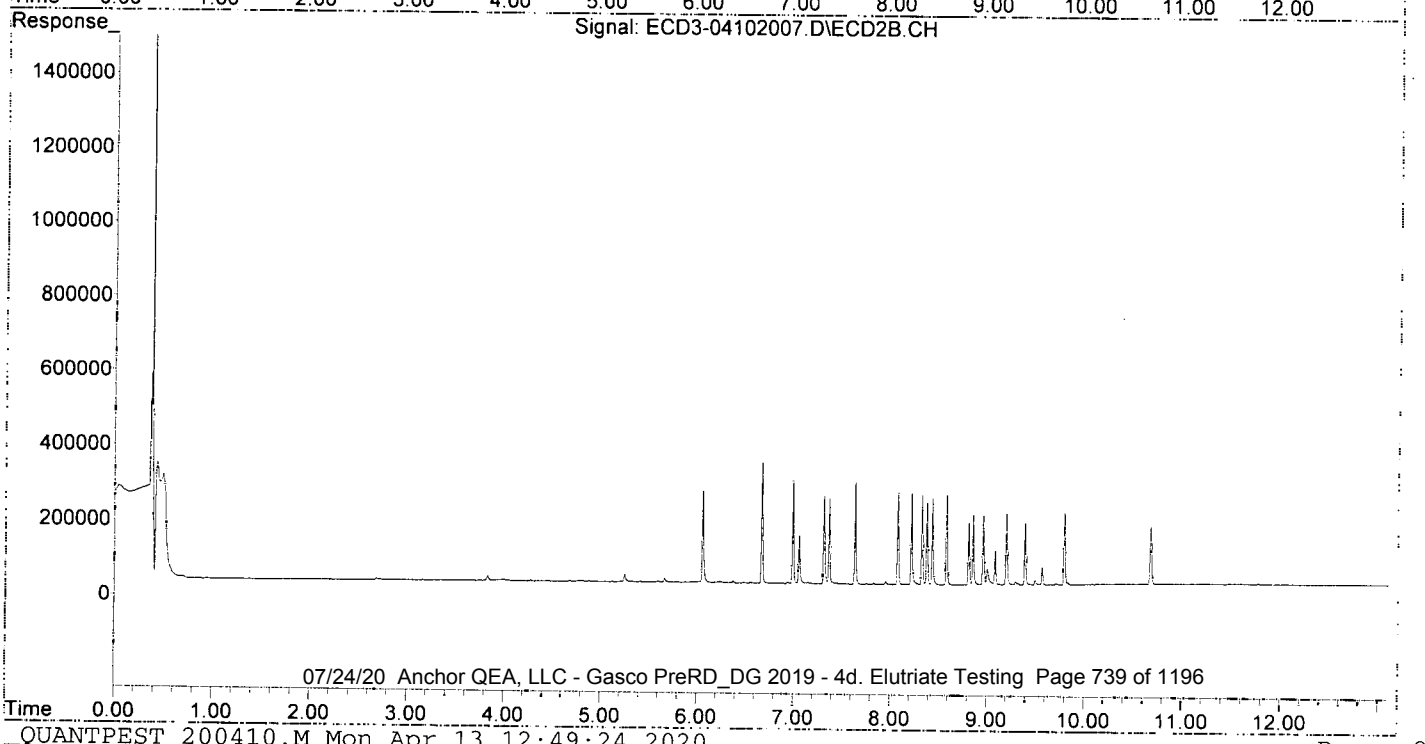
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20.

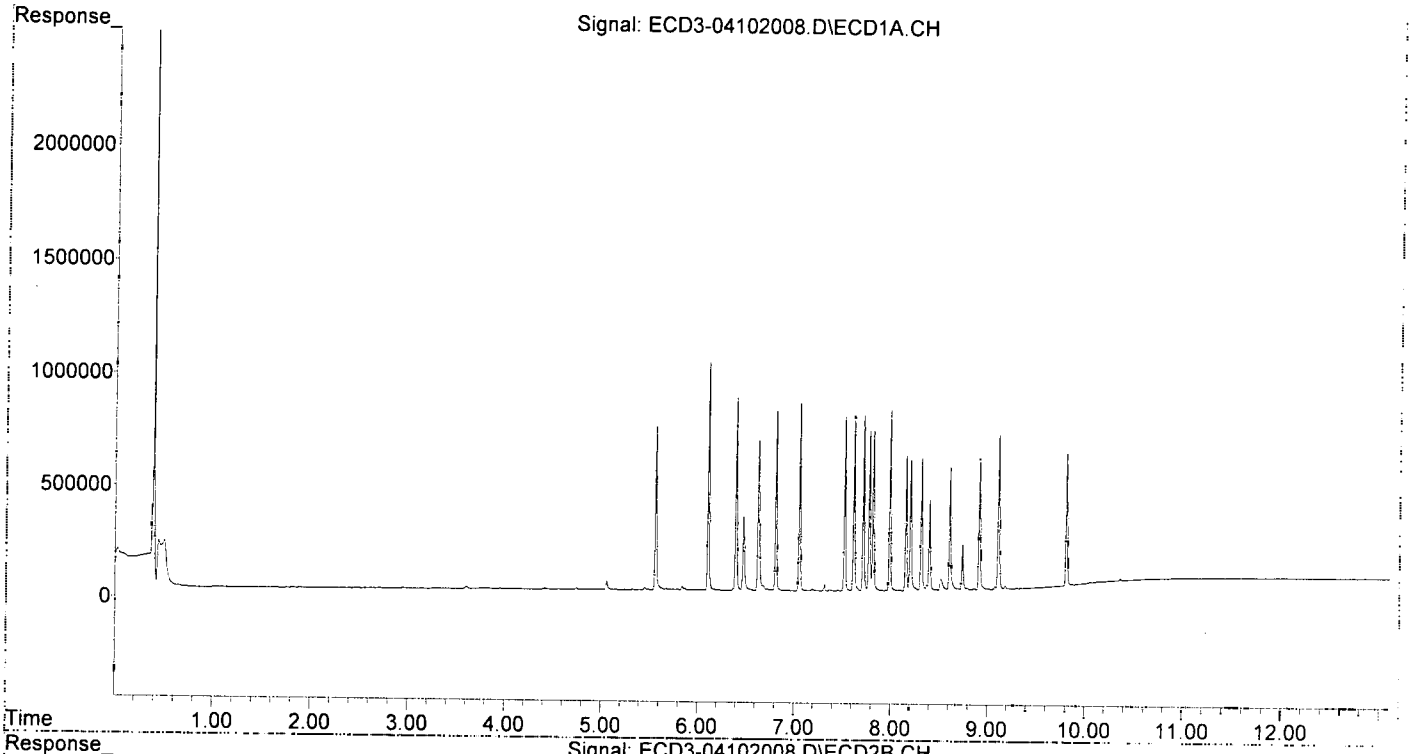
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.561	6.061	727524	601812	4.912	5.164	
22) S	DCBP (S)	9.806	10.678	587016	364366	5.136	5.168	
	Target Compounds							
2)	a-BHC	6.107	6.673	1011773	809491	5.001	5.157	
3)	g-BHC	6.395	6.994	864784	673024	5.008	4.996	
4)	b-BHC	6.472	7.059	326774	302941	4.790	4.933	
5)	Heptachlor	6.808	7.371	799546	564693	4.883	4.988	
6)	d-BHC	6.626	7.317	669294	620859	4.768	5.079	
7)	Aldrin	7.052	7.640	838045	699880	4.999	5.266	
8)	Heptachlo...	7.520	8.082	780587	590771	4.991	5.020	
9)	trans-Chl...	7.616	8.223	779273	605591	4.952	5.021	
10)	cis-Chlor...	7.714	8.331	784009	585259	4.995	5.053	
11)	Endosulfa...	7.815	8.382	712441	546125	4.964	5.078	
12)	4,4'-DDE	7.774	8.438	712814	584778	4.941	5.078	
13)	Dieldrin	7.987	8.584	805257	602273	5.011	5.030	
14)	Endrin	8.155	8.814	600774	419756	4.870	4.855	
15)	4,4'-DDD	8.201	8.857	580403	466489	4.781	4.943	
16)	Endosulfa...	8.314	8.963	589436	453168	4.869	4.941	
17)	4,4'-DDT	8.399	9.085	402575	260165	4.734	4.788	
18)	Endrin Al...	8.608	9.201	545702	424119	5.084	5.046	
19)	Endosulfa...	8.913	9.393	580327	407094	4.818	4.836	
20)	Methoxychlor	8.738	9.568	204727	127410	4.986	4.938	
21)	Endrin Ke...	9.110	9.797	688717	464140	4.781	4.851	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.520	8.223	780587	605591	8.450	7.623	
27)	trans-Non...	7.714	0.000	784009	0	5.269	N.D.	#
28)	2,4'-DDD	0.000	8.584	0	602273	N.D.	8.778	#
29)	2,4'-DDT	0.000	8.814	0	419756	N.D.	7.825	#
30)	cis-Nonac...	8.201f	8.857	580403	466489	3.581	3.780	
31)	Mirex	0.000	9.797	0	464140	N.D.	6.450	#
32)	Chlordane...	7.616	8.223	779273	605591	44.150	41.860	
33)	Chlordane...	7.714	8.331	784009	585259	37.835	47.346	
34)	Chlordane...	0.000	9.005	0	44812	N.D.	8.118	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.714f	8.557	784009	3979	941.848	3.553	#
37)	Toxaphene...	7.987	0.000	805257	0	534.402	N.D.	#
38)	Toxaphene...	8.314	8.963f	589436	453168	189.507	208.800	
39)	Toxaphene...	8.517f	9.005	48588	44812	11.323	4.289	#
40)	Toxaphene...	8.785	9.201	8822	424119	3.746	229.856	#
41)	Toxaphene...	0.000	9.568	0	127410	N.D.	62.950	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

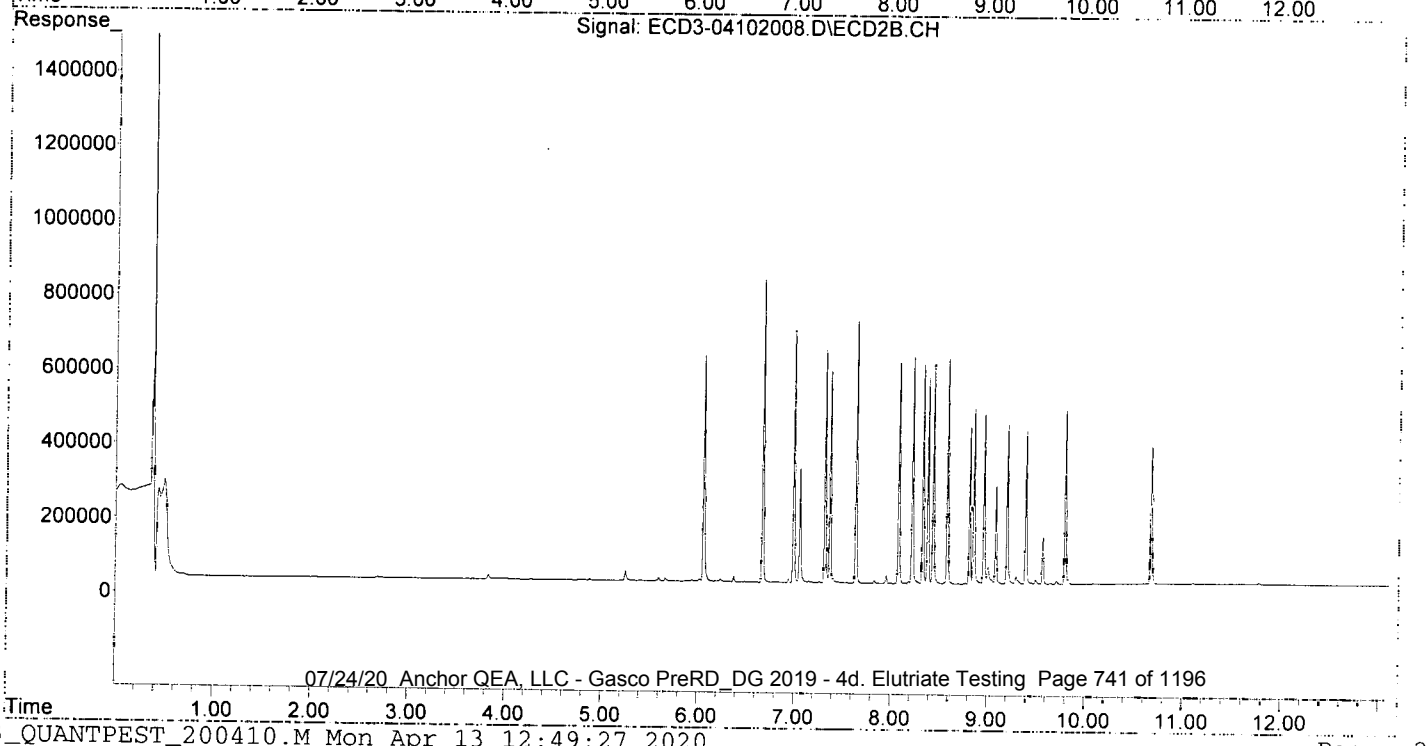
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:46 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

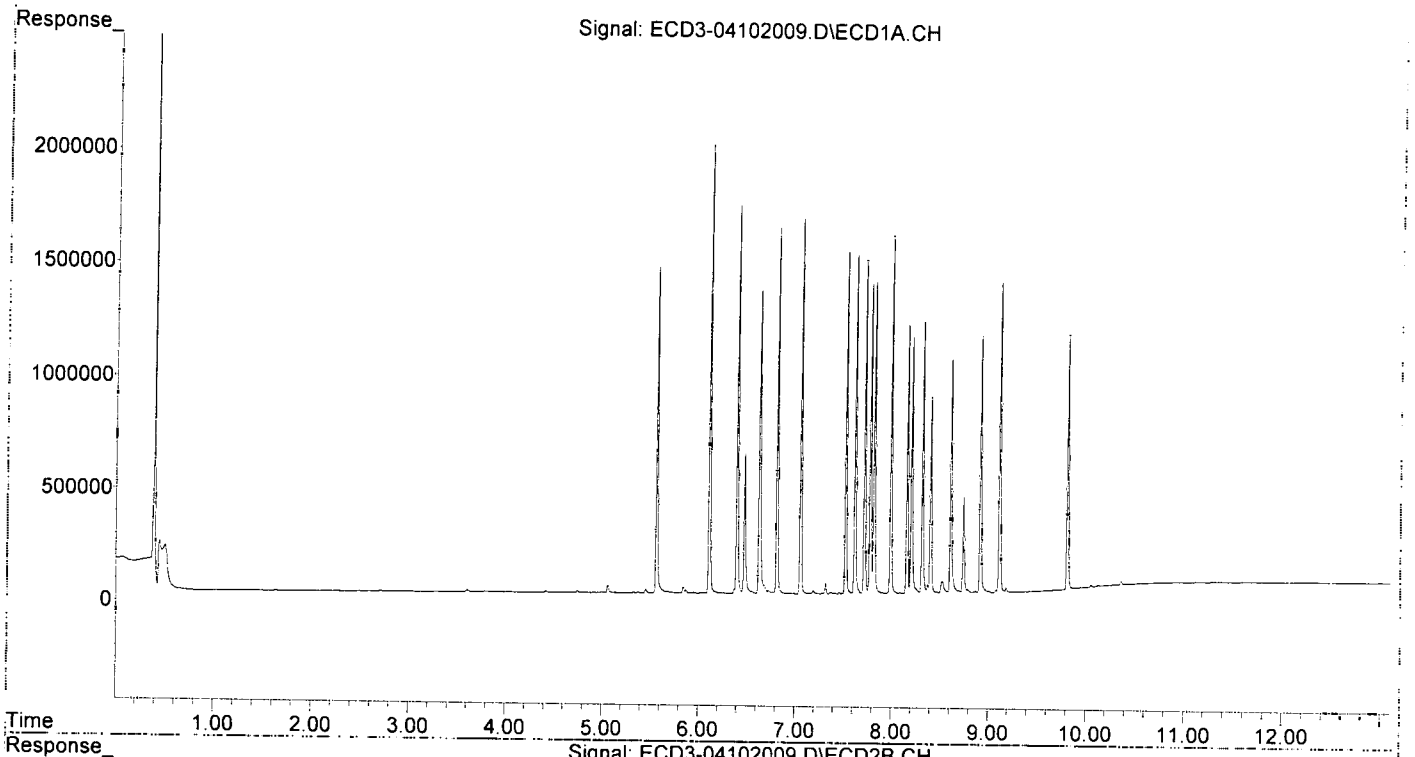
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.563	6.062	1449955	1164651	9.790	10.150	
22)	S DCBP (S)	9.808	10.679	1130527	701737	10.100	10.202	
	Target Compounds							
2)	a-BHC	6.109	6.674	1992062	1592422	9.847	10.145	
3)	g-BHC	6.395	6.994	1722298	1349252	9.974	10.015	
4)	b-BHC	6.473	7.059	621775	583118	9.114	9.495	
5)	Heptachlor	6.809	7.372	1629185	1105625	9.949	9.767	
6)	d-BHC	6.627	7.317	1348815	1223432	9.609	10.009	
7)	Aldrin	7.054	7.641	1665359	1316403	9.934	9.905	
8)	Heptachlo...	7.521	8.082	1525229	1175438	9.753	9.987	
9)	trans-Chl...	7.617	8.223	1502883	1202264	9.551	9.969	
10)	cis-Chlor...	7.714	8.332	1485434	1131819	9.463	9.772	
11)	Endosulfa...	7.815	8.383	1386208	1056492	9.659	9.824	
12)	4,4'-DDE	7.774	8.438	1382476	1137288	9.584	9.876	
13)	Dieldrin	7.988	8.585	1588078	1196698	9.881	9.994	
14)	Endrin	8.156	8.815	1200412	862016	9.731	9.971	
15)	4,4'-DDD	8.201	8.857	1143858	889692	9.422	9.428	
16)	Endosulfa...	8.315	8.963	1207633	876423	9.976	9.556	
17)	4,4'-DDT	8.399	9.085	875483	578694	10.057	10.438	
18)	Endrin Al...	8.608	9.202	1043139	811442	9.920	9.889	
19)	Endosulfa...	8.913	9.393	1141536	796875	9.476	9.467	
20)	Methoxychlor	8.739	9.568	427742	269363	10.262	10.268	
21)	Endrin Ke...	9.111	9.797	1381099	942335	9.588	9.849	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	7.457	7.986f	8338	4446	BelowCal	3277.692	
26)	2,4'-DDE	7.521	8.223	1525229	1202264	16.643	15.419	
27)	trans-Non...	7.714	8.278	1485434	9116	10.165	1953.481	#
28)	2,4'-DDD	0.000	8.585	0	1196698	N.D.	17.780	#
29)	2,4'-DDT	0.000	8.815	0	862016	N.D.	16.070	#
30)	cis-Nonac...	8.201f	8.857	1143858	889692	7.258	7.434	
31)	Mirex	8.863	9.797	6194	942335	7125.821	13.550	#
32)	Chlordane...	7.617	8.223	1502883	1202264	85.147	83.103	
33)	Chlordane...	7.714	8.332	1485434	1131819	71.684	91.561	
34)	Chlordane...	0.000	9.005	0	49757	N.D.	9.493	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.714f	8.585f	1485434	1196698	1784.486	1068.499	#
37)	Toxaphene...	7.988	0.000	1588078	0	1053.916	N.D.	#
38)	Toxaphene...	8.315	8.963f	1207633	876423	388.261	403.817	
39)	Toxaphene...	8.518f	9.005	51106	49757	12.223	5.873	#
40)	Toxaphene...	8.786	9.202	14944	811442	6.346	440.326	#
41)	Toxaphene...	8.863f	9.568	6194	269363	2.042	133.085	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

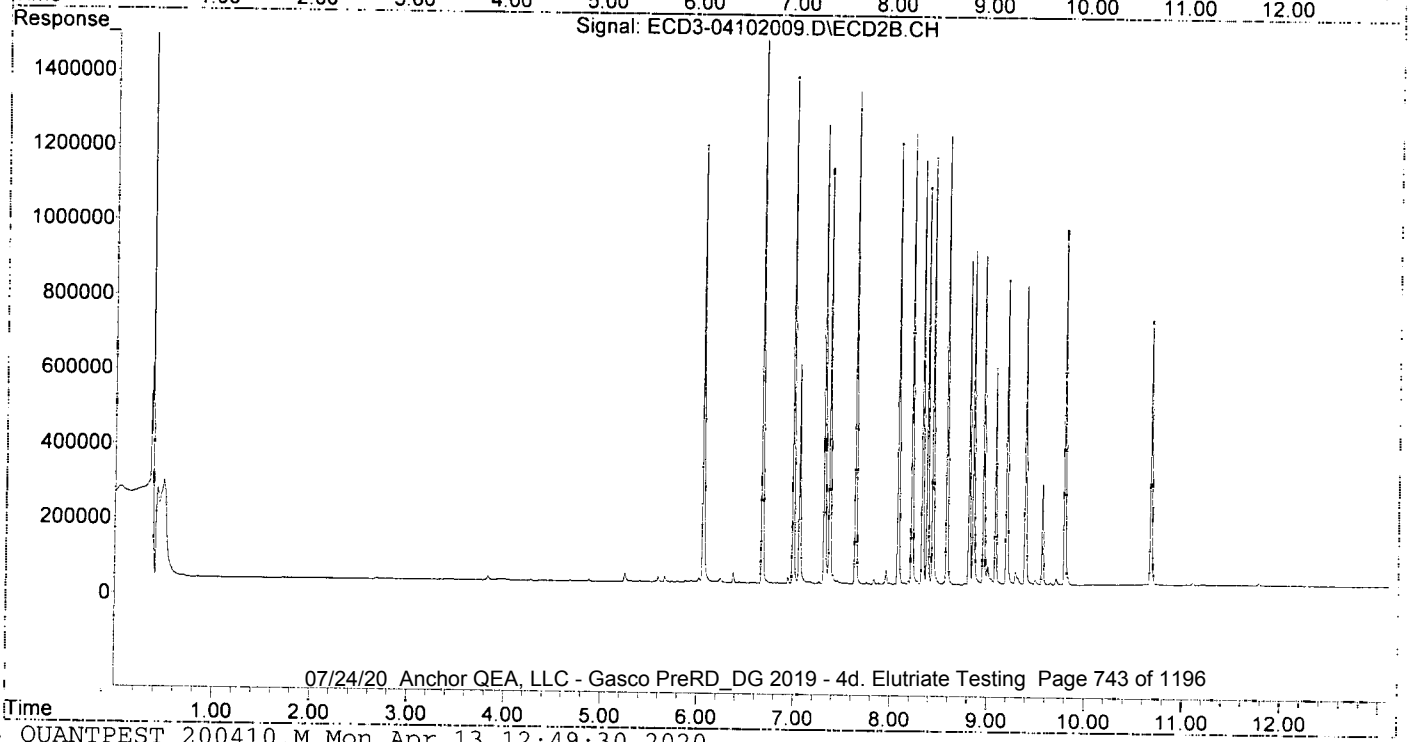
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:40:58 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

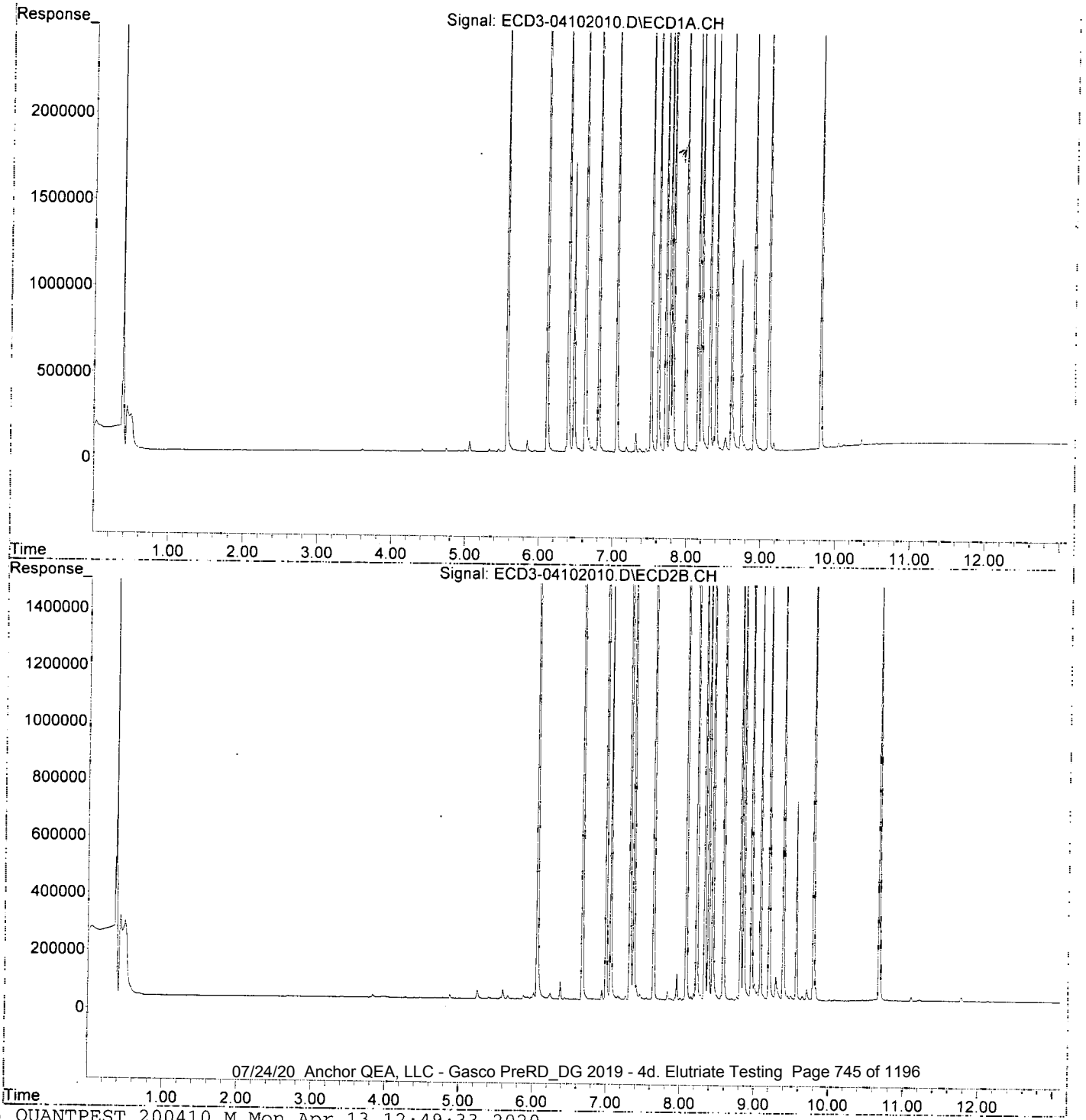
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.061	3620730	2793596	24.447	24.732	
22)	S DCBP (S)	9.807	10.679	2727108	1659485	24.672	24.614	
	Target Compounds							
2)	a-BHC	6.108	6.673	4970390	3891920	24.570	24.793	
3)	g-BHC	6.395	6.994	4292566	3362986	24.858	24.962	
4)	b-BHC	6.471	7.058	1680896	1441819	24.639	23.476	
5)	Heptachlor	6.808	7.371	3984158	2769954	24.331	24.469	
6)	d-BHC	6.624	7.315	3518783	3102871	25.068	25.384	
7)	Aldrin	7.053	7.640	4119405	3247513	24.573	24.436	
8)	Heptachlo...	7.520	8.082	3754002	2836226	24.005	24.099	
9)	trans-Chl...	7.616	8.223	3815437	2978658	24.247	24.698	
10)	cis-Chlor...	7.713	8.331	3703571	2773817	23.594	23.948	
11)	Endosulfa...	7.814	8.382	3466454	2611533	24.153	24.285	
12)	4,4'-DDE	7.773	8.437	3675424	2877432	25.479	24.988	
13)	Dieldrin	7.987	8.585	3986579	2919821	24.806	24.384	
14)	Endrin	8.155	8.814	3047888	2128761	24.707	24.624	
15)	4,4'-DDD	8.200	8.857	3056605	2212251	25.177	23.443	
16)	Endosulfa...	8.314	8.962	2966130	2201693	24.503	24.005	
17)	4,4'-DDT	8.399	9.085	2456263	1496497	26.957	26.020	
18)	Endrin Al...	8.607	9.201	2573122	1952460	24.768	24.237	
19)	Endosulfa...	8.913	9.393	2840981	2020111	23.584	23.998	
20)	Methoxychlor	8.737	9.568	1114647	689159	25.840	25.361	
21)	Endrin Ke...	9.110	9.797	3445975	2250304	23.923	23.520	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	8035	0	BelowCal	N.D.	
25)	Oxychlordane	7.455	8.004	20153	6735	BelowCal	3277.669	
26)	2,4'-DDE	7.520	8.223	3754002	2978658	40.921	38.976	
27)	trans-Non...	7.713	8.278	3703571	18136	25.612	1953.399	#
28)	2,4'-DDD	0.000	8.585	0	2919821	N.D.	44.172	#
29)	2,4'-DDT	8.081	8.814	12079	2128761	0.160	39.686	#
30)	cis-Nonac...	8.200f	8.857	3056605	2212251	19.706	18.921	
31)	Mirex	8.862	9.797	14690	2250304	7125.736	33.117	#
32)	Chlordane...	7.616	8.223	3815437	2978658	216.166	205.890	
33)	Chlordane...	7.713	8.331	3703571	2773817	178.726	224.394	
34)	Chlordane...	0.000	9.005	0	56358	N.D.	11.328	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.713f	8.585f	3703571	2919821	4449.187	2607.026	#
37)	Toxaphene...	7.987	0.000	3986579	0	2645.663	N.D.	#
38)	Toxaphene...	8.314	8.962f	2966130	2201693	953.627	1014.444	
39)	Toxaphene...	8.528	9.005	81066	56358	22.921	7.987	#
40)	Toxaphene...	8.785	9.201	38899	1952460	16.517	1047.578	#
41)	Toxaphene...	8.862f	9.568	14690	689159	4.843	340.495	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

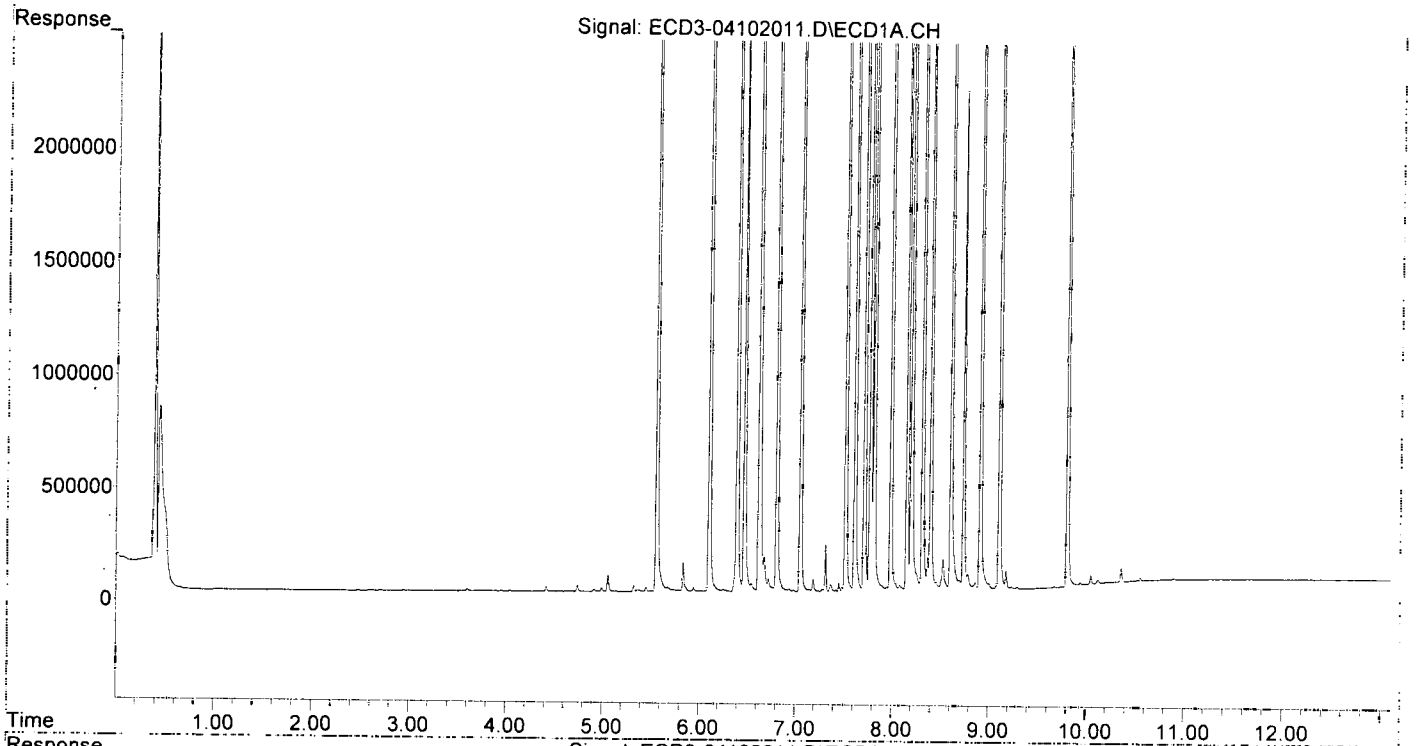
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.062	6908561	5350810	46.646	48.103	
22)	S DCBP (S)	9.807	10.679	5172590	3177027	46.965	47.841	
	Target Compounds							
2)	a-BHC	6.108	6.674	9856715	7382419	48.725	47.030	
3)	g-BHC	6.395	6.994	8390299	6395054	48.588	47.467	
4)	b-BHC	6.470	7.058	3275829	2819965	48.017	45.916	
5)	Heptachlor	6.808	7.372	7786801	5432137	47.553	47.986	
6)	d-BHC	6.624	7.316	7200622	5907599	51.298	48.329	
7)	Aldrin	7.053	7.640	7862388	6276155	46.900	47.226	
8)	Heptachlo...	7.520	8.082	7294406	5446885	46.644	46.281	
9)	trans-Chl...	7.615	8.222	7465806	5551909	47.445	46.035	
10)	cis-Chlor...	7.713	8.331	7133255	5236394	45.443	45.209	
11)	Endosulfa...	7.814	8.382	6731758	4951225	46.904	46.042	
12)	4,4'-DDE	7.772	8.437	7150986	5427651	49.573	47.135	
13)	Dieldrin	7.987	8.584	7608328	5672261	47.341	47.370	
14)	Endrin	8.154	8.814	6088856	4168787	49.357	48.222	
15)	4,4'-DDD	8.200	8.856	5813915	4432731	47.889	46.974	
16)	Endosulfa...	8.313	8.962	5720662	4306868	47.258	46.958	
17)	4,4'-DDT	8.399	9.084	5090784	3189186	52.647	52.511	
18)	Endrin Al...	8.607	9.201	4966378	3803916	47.918	47.784	
19)	Endosulfa...	8.912	9.392	5681676	3917488	47.167	46.538	
20)	Methoxychlor	8.738	9.568	2212679	1415590	48.967	49.507	
21)	Endrin Ke...	9.109	9.797	6843717	4537747	47.510	47.428	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	15497	0	BelowCal	N.D.	
25)	Oxychlordane	7.455	8.001	37958	11128	0.094	3277.625	#
26)	2,4'-DDE	7.520	8.222	7294406	5551909	78.770	74.086	
27)	trans-Non...	7.713	8.281	7133255	29937	49.399	0.051	#
28)	2,4'-DDD	0.000	8.584	0	5672261	N.D.	87.296	#
29)	2,4'-DDT	8.081	8.814	25017	4168787	0.332	77.718	#
30)	cis-Nonac...	8.200f	8.856	5813915	4432731	37.560	38.447	
31)	Mirex	8.862	9.797	29866	4537747	7125.582	67.873	#
32)	Chlordane...	7.615	8.222	7465806	5551909	422.980	383.758	
33)	Chlordane...	7.713	8.331	7133255	5236394	344.235	423.609	
34)	Chlordane...	0.000	9.004	0	67246	N.D.	14.354	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.713f	8.584f	7133255	5672261	8569.346	5064.604	#
37)	Toxaphene...	7.987	0.000	7608328	0	5049.210	N.D.	#
38)	Toxaphene...	8.313	8.962f	5720662	4306868	1839.225	1984.416	
39)	Toxaphene...	8.529	9.004	138672	67246	43.458	11.473	#
40)	Toxaphene...	8.784	9.201	68899	3803916	29.255	1995.767	#
41)	Toxaphene...	8.862f	9.568	29866	1415590	9.846	699.405	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

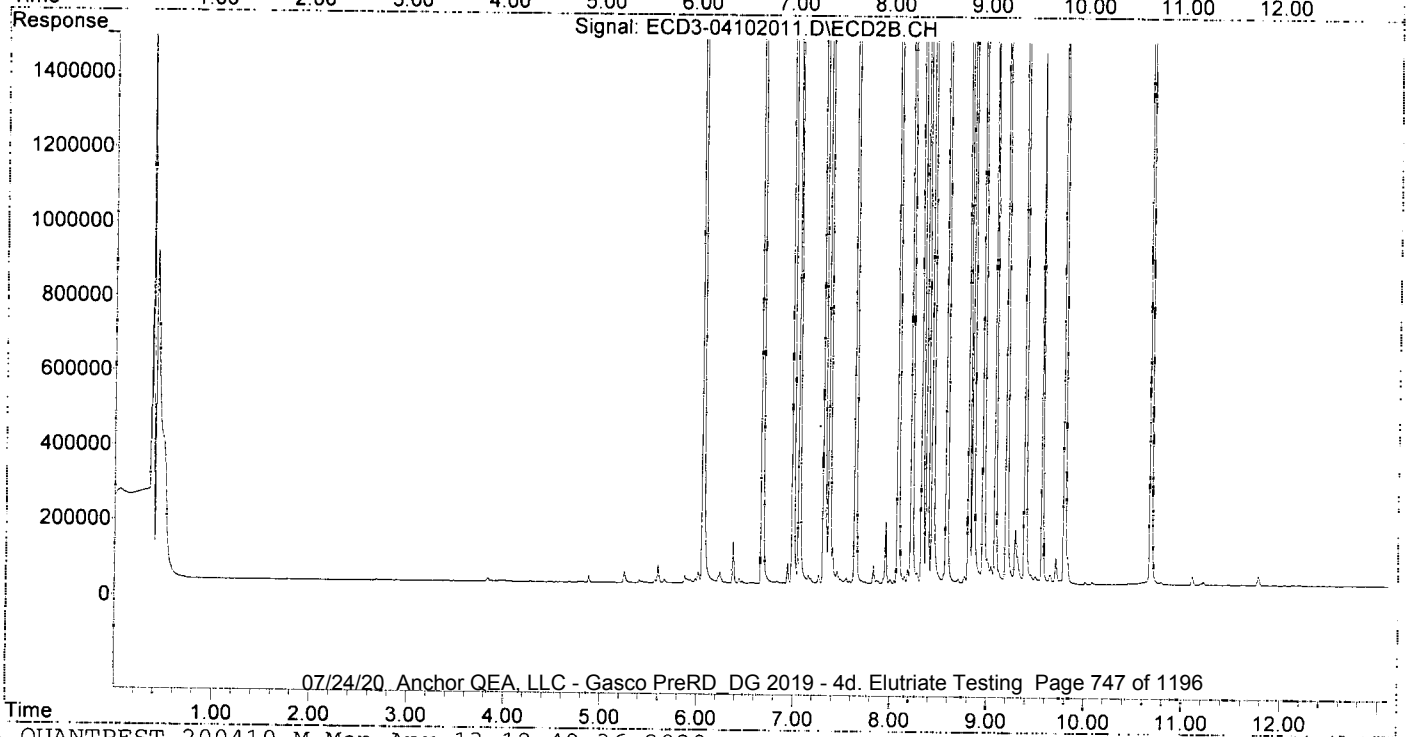
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:26 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

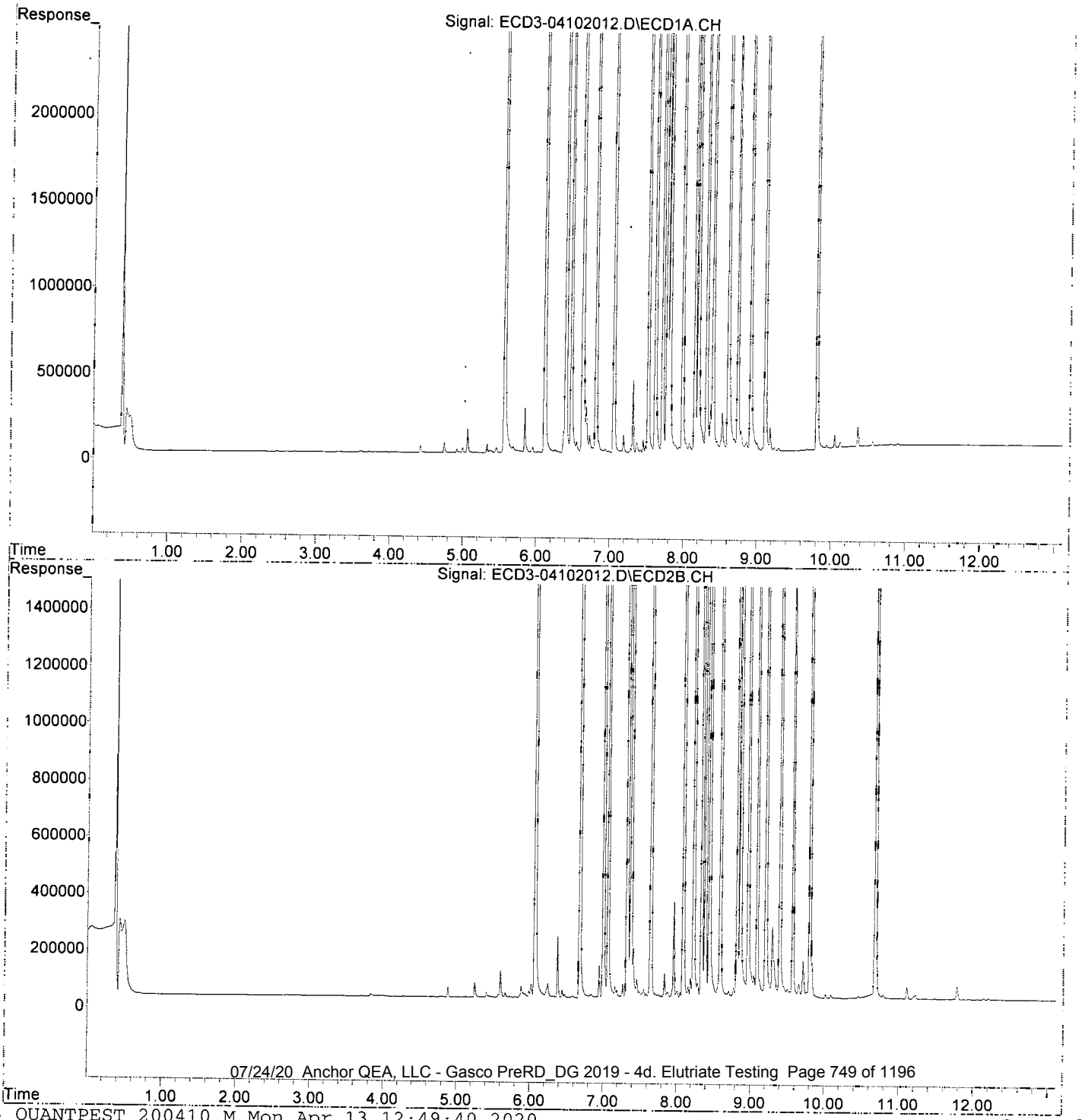
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.562	6.062	14508961	10942666	97.963	101.471	
22)	S DCBP (S)	9.807	10.679	10967512	6496705	99.662	100.457	
	Target Compounds							
2)	a-BHC	6.108	6.673	20690311	15054052	102.278	95.902	
3)	g-BHC	6.395	6.994	17852129	13117531	103.381	97.365	
4)	b-BHC	6.470	7.058	7197743	5838273	105.505	95.061	
5)	Heptachlor	6.808	7.371	16932118	10998035	103.403	97.154	
6)	d-BHC	6.623	7.315	15654391	12327900	111.524	100.853	
7)	Aldrin	7.052	7.640	16874638	12626262	100.659	95.008	
8)	Heptachlo...	7.518	8.081	15381959	11258743	98.361	95.663	
9)	trans-Chl...	7.614	8.222	15938657	11619020	101.289	96.341	
10)	cis-Chlor...	7.712	8.330	15103841	10960125	96.221	94.625	
11)	Endosulfa...	7.813	8.382	14072419	10161726	98.051	94.494	
12)	4,4'-DDE	7.772	8.437	15292864	11367630	106.015	98.719	
13)	Dieldrin	7.986	8.584	16300118	11853447	101.424	98.991	
14)	Endrin	8.154	8.814	12878104	8690942	104.392	100.531	
15)	4,4'-DDD	8.198	8.856	12428792	9158353	102.375	97.051	
16)	Endosulfa...	8.312	8.962	12147287	8759068	100.349	95.500	
17)	4,4'-DDT	8.398	9.085	11118672	7015904	103.417	104.756	
18)	Endrin Al...	8.606	9.201	10213956	7859690	98.361	100.574	
19)	Endosulfa...	8.911	9.393	11882557	8368447	98.643	99.414	
20)	Methoxychlor	8.736	9.568	5195602	3310270	103.898	104.189	
21)	Endrin Ke...	9.109	9.797	13903939	9234850	96.524	96.522	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.948	0.000	29093	0	0.016	N.D.	#
25)	Oxychlordane	7.453	8.001	74114	24244	0.373	0.026	#
26)	2,4'-DDE	7.518	8.222	15381959	11619020	162.197	162.213	
27)	trans-Non...	7.712	8.279	15103841	51428	104.227	0.246	#
28)	2,4'-DDD	7.894	8.584	40435	11853447	0.279	188.988	#
29)	2,4'-DDT	8.080	8.814	50870	8690942	0.676	162.025	#
30)	cis-Nonac...	8.198	8.856	12428792	9158353	79.964	81.065	
31)	Mirex	8.860	9.797	53792	9234850	0.173	141.547	#
32)	Chlordane...	7.614	8.222	15938657	11619020	903.016	803.127	
33)	Chlordane...	7.712	8.330	15103841	10960125	728.878	886.643	
34)	Chlordane...	0.000	9.002	0	93008	N.D.	21.515	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.712f	8.584f	15103841	11853447	18144.598	10583.613	#
37)	Toxaphene...	7.986	0.000	16300118	0	10817.451	N.D.	#
38)	Toxaphene...	8.312	8.962f	12147287	8759068	3905.421	4035.795	
39)	Toxaphene...	8.528	9.002	225281	93008	74.253	19.717	#
40)	Toxaphene...	8.783	9.201	118505	7859690	50.318	3936.877	#
41)	Toxaphene...	8.860	9.568	53792	3310270	17.733	1635.514	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 4/13/20

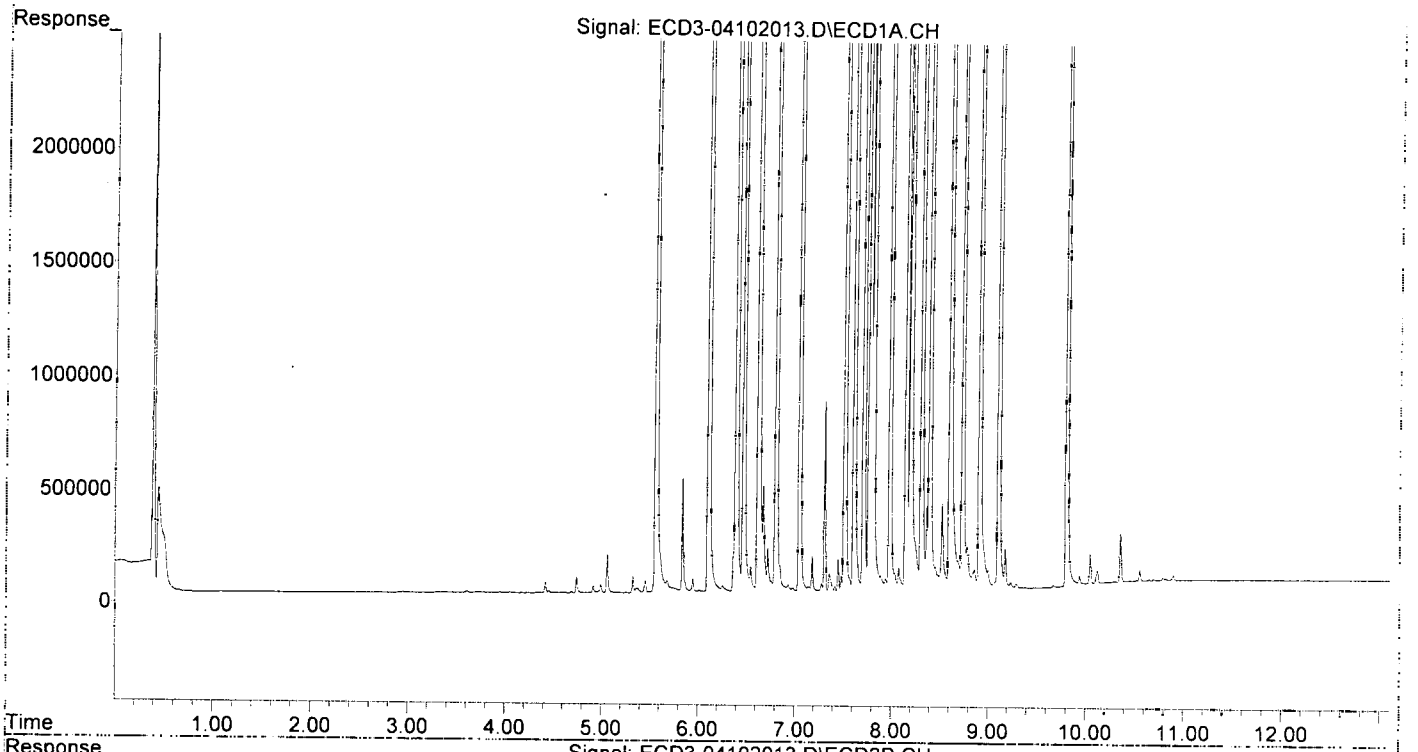
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.564	6.062	28992333	20414502	195.753	200.582	
22)	S	DCBP (S)	9.807	10.679	22430618	12440663	203.376	202.014	
		Target Compounds							
2)		a-BHC	6.110	6.674	42454244	28719329	209.864	182.957	
3)		g-BHC	6.395	6.995	36042538	24936908	208.722	185.094	
4)		b-BHC	6.470	7.057	14896865	11368661	218.359	185.108	
5)		Heptachlor	6.809	7.372	34291575	22169726	209.416	195.841	
6)		d-BHC	6.623	7.316	33683152	23989125	239.964	196.253	
7)		Aldrin	7.053	7.640	33769142	23855766	201.437	179.506	
8)		Heptachlo...	7.519	8.081	29992904	21270880	191.791	180.733	
9)		trans-Chl...	7.615	8.223	31666318	21709173	201.237	180.006	
10)		cis-Chlor...	7.713	8.331	30069367	20913495	191.561	180.557	
11)		Endosulfa...	7.813	8.382	28839578	19228923	200.942	178.810	
12)		4,4'-DDE	7.772	8.437	31314990	21652854	217.085	188.038	
13)		Dieldrin	7.987	8.584	32386470	22315768	201.518	186.364	
14)		Endrin	8.154	8.814	27093743	17588255	219.626	203.450	
15)		4,4'-DDD	8.198	8.856	26222383	17432728	215.991	184.735	
16)		Endosulfa...	8.312	8.961	25140767	17688125	207.688	192.854	
17)		4,4'-DDT	8.398	9.084	24723061	15058756	194.834	194.066	
18)		Endrin Al...	8.606	9.201	21324700	15325432	203.772	202.593	
19)		Endosulfa...	8.912	9.392	23987343	16356168	199.132	194.305	
20)		Methoxychlor	8.736	9.567	11463022	7310519	197.090	196.831	
21)		Endrin Ke...	9.109	9.797	28865829	18211713	200.392	190.348	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.948	0.000	60947	0	0.255	N.D.	#
25)		Oxychlordane	7.453	8.003	139204	31616	0.876	0.101	#
26)		2,4'-DDE	7.519	8.223	29992904	21709173	303.712	331.640	
27)		trans-Non...	7.713	8.282	30069367	80932	205.522	0.514	#
28)		2,4'-DDD	7.895	8.584	63615	22315768	0.564	380.542	#
29)		2,4'-DDT	8.079	8.814	96846	17588255	1.286	327.896	#
30)		cis-Nonac...	8.198	8.856	26222383	17432728	166.532	159.603	
31)		Mirex	8.859	9.797	83812	18211713	0.477	292.440	#
32)		Chlordane...	7.615	8.223	31666318	21709173	1794.077	1500.577	
33)		Chlordane...	7.713	8.331	30069367	20913495	1451.081	1691.843	
34)		Chlordane...	0.000	8.961f	0	17688125	N.D.	4875.104	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.713f	8.584f	30069367	22315768	36123.034	19925.127	#
37)		Toxaphene...	7.987	0.000	32386470	0	21493.039	N.D.	#
38)		Toxaphene...	8.312	8.961f	25140767	17688125	8082.898	8149.914	
39)		Toxaphene...	8.527	9.042f	380167	125813	129.083	30.208	#
40)		Toxaphene...	8.784	9.201	186197	15325432	79.061	7137.189	#
41)		Toxaphene...	8.859	9.567	83812	7310519	27.630	3611.928	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

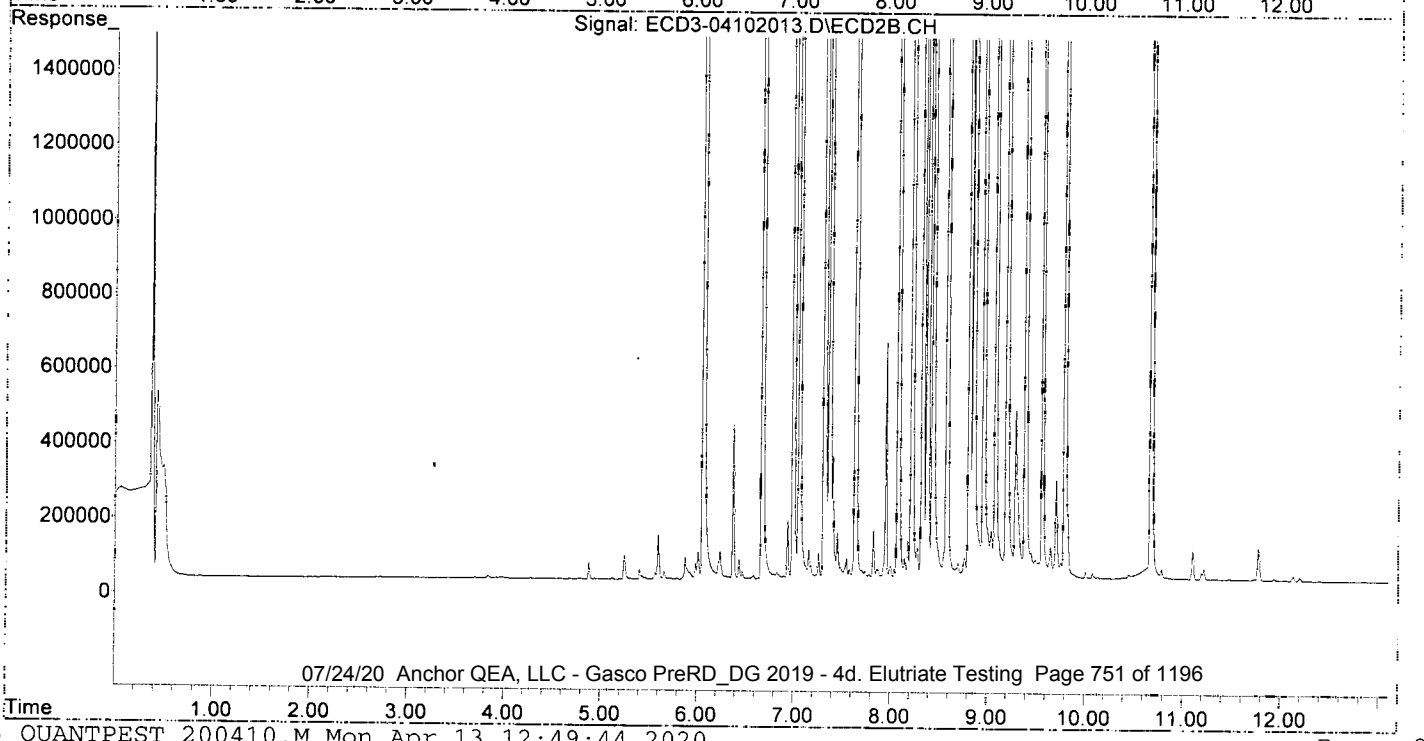
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:41:48 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

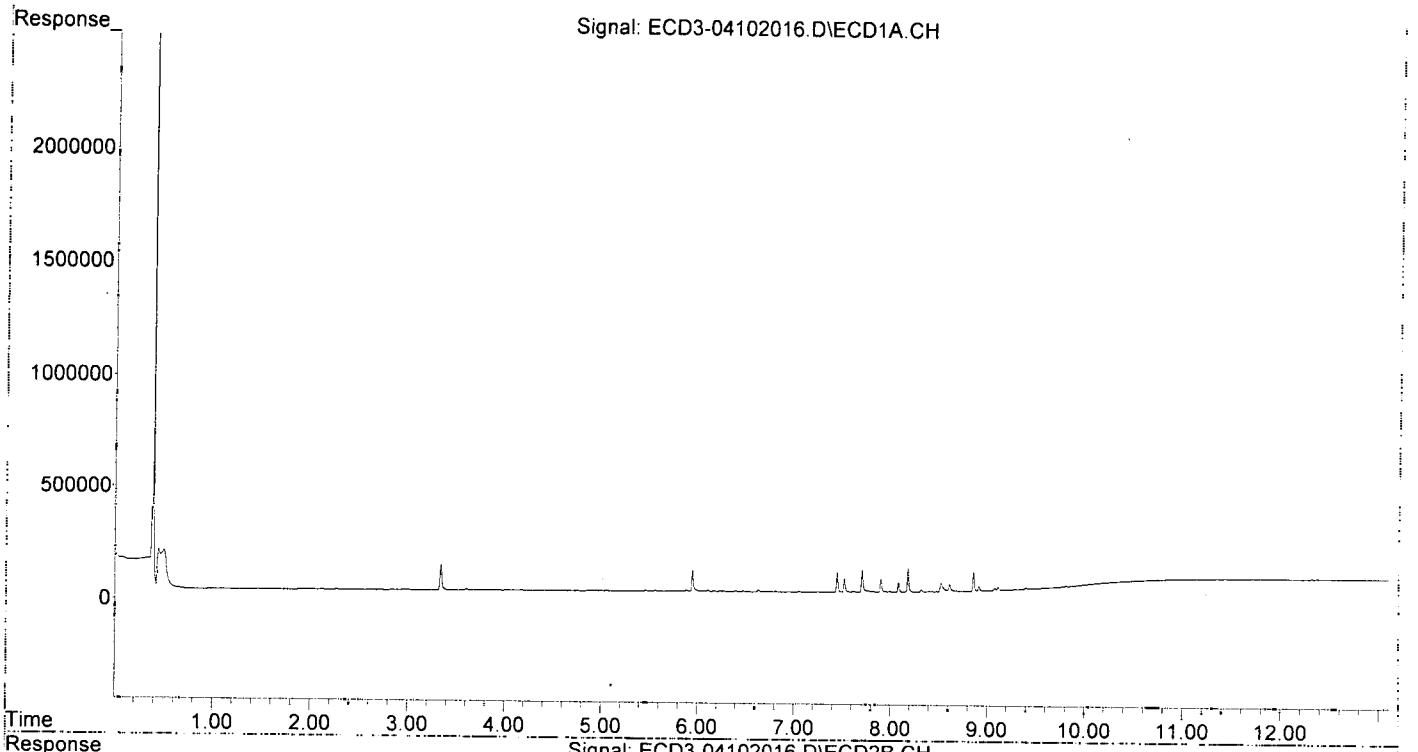
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	6.061	0	4574	N.D.	1884.074	#
22) S	DCBP (S)	9.808	0.000	4407	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	6.108	6.672	5012	3637	0.025	0.023	
3)	g-BHC	0.000	6.994	0	3847	N.D.	0.029	#
4)	b-BHC	0.000	7.061	0	3262	N.D.	0.053	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.631	7.319	7663	7865	0.055	0.064	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.523	0.000	59883	0	0.383	N.D.	#
9)	trans-Chl...	0.000	8.216	0	54754	N.D.	0.454	#
10)	cis-Chlor...	7.705	8.332	97265	7331	0.620	0.063	#
11)	Endosulfa...	7.775f	0.000	4570	0	0.032	N.D.	#
12)	4,4'-DDE	7.775	0.000	4570	0	0.032	N.D.	#
13)	Dieldrin	0.000	8.592	0	50583	N.D.	0.422	#
14)	Endrin	8.181f	8.817	105931	32434	0.859	0.375	#
15)	4,4'-DDD	8.181	8.857	105931	83146	0.873	0.881	
16)	Endosulfa...	8.318	8.965	9575	7808	0.079	0.085	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.611	9.203	31419	25644	0.081	0.078	
19)	Endosulfa...	8.915	9.394	19857	15167	0.165	0.180	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.112	9.790	13697	60436	0.095	0.632	#
23)	Hexachlor...	3.341	3.736	112302	112755	0.486	0.479	
24)	Hexachlor...	5.948	6.532	90891	78616	0.480	0.478	
25)	Oxychlordane	7.448	8.010	87083	67961	0.473	0.469	
26)	2,4'-DDE	7.523	8.216	59883	54754	0.481	0.477	
27)	trans-Non...	7.705	8.287	97265	76561	0.471	0.474	
28)	2,4'-DDD	7.900	8.592	56544	50583	0.477	0.469	
29)	2,4'-DDT	8.083	8.817	41657	32434	0.553	0.605	
30)	cis-Nonac...	8.181	8.857	105931	83146	0.481	0.480	
31)	Mirex	8.858	9.790	82399	60436	0.462	0.478	
32)	Chlordane...	0.000	8.216	0	54754	N.D.	3.785	#
33)	Chlordane...	7.705	8.332	97265	7331	4.694	0.593	#
34)	Chlordane...	0.000	9.009	0	33786	N.D.	5.054	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.705f	8.592f	97265	50583	116.847	45.164	#
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)	Toxaphene...	8.318	8.965f	9575	7808	3.078	3.598	
39)	Toxaphene...	8.522	9.009	37652	33786	7.415	0.758	#
40)	Toxaphene...	0.000	9.203	0	25644	N.D.	10.907	#
41)	Toxaphene...	8.858	0.000	82399	0	27.163	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

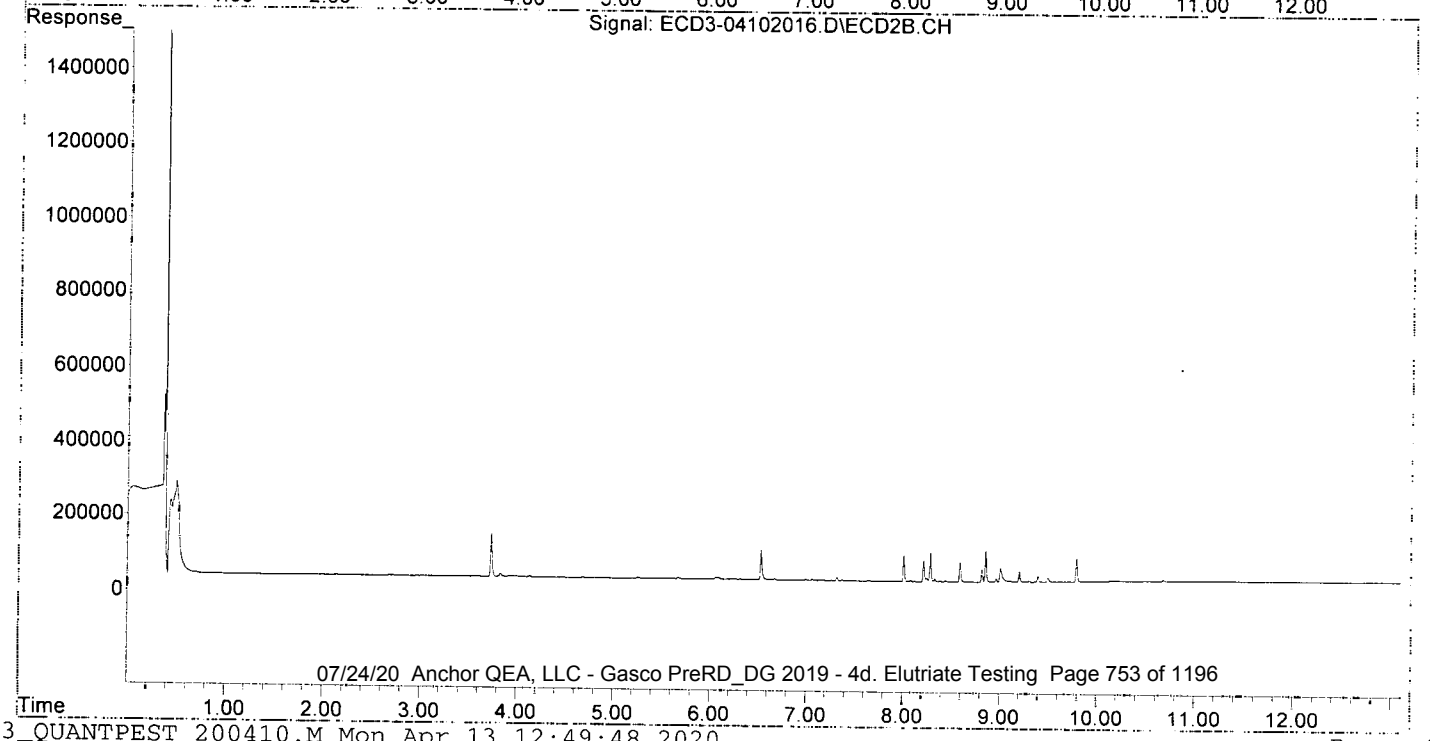
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:55 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

MJB 4/13/20

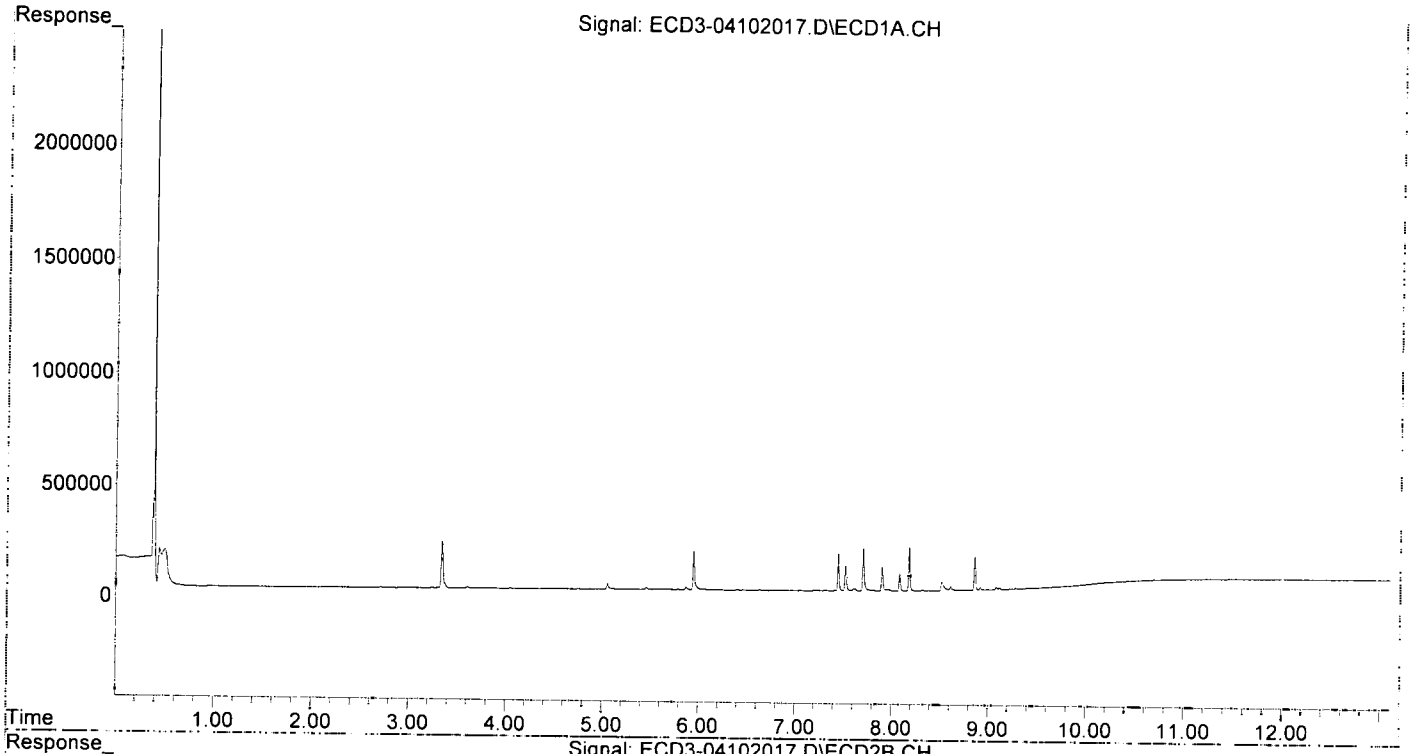
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.080	0	8650	N.D.	1884.038	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	7.318	0	2599	N.D.	0.021	#
7)		Aldrin	0.000	7.658	0	5819	N.D.	0.044	#
8)		Heptachlo...	7.522	0.000	114378	0	0.731	N.D.	#
9)		trans-Chl...	7.617	8.216	9623	102014	0.061	0.846	#
10)		cis-Chlor...	7.706	8.332	189735	9463	1.209	0.082	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	0.000	8.593	0	93331	N.D.	0.779	#
14)		Endrin	8.181f	8.817	197292	56936	1.599	0.659	#
15)		4,4'-DDD	8.181	8.858	197292	153334	1.625	1.625	
16)		Endosulfa...	0.000	8.965	0	3804	N.D.	0.041	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.610	9.203	17627	13388	BelowCal	3407.041	
19)		Endosulfa...	8.915	9.394	11254	8072	0.093	0.096	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	9.112	9.790	6973	100894	0.048	1.055	#
23)		Hexachlor...	3.342	3.736	210953	210162	1.056	1.072	
24)		Hexachlor...	5.948	6.532	171487	145117	1.085	1.088	
25)		Oxychlordane	7.447	8.010	167657	131841	1.096	1.117	
26)		2,4'-DDE	7.522	8.216	114378	102014	1.085	1.088	
27)		trans-Non...	7.706	8.287	189735	145443	1.118	1.099	
28)		2,4'-DDD	7.899	8.593	106028	93331	1.085	1.111	
29)		2,4'-DDT	8.083	8.817	77977	56936	1.036	1.061	
30)		cis-Nonac...	8.181	8.858	197292	153334	1.078	1.083	
31)		Mirex	8.858	9.790	147950	100894	1.125	1.076	
32)		Chlordane...	7.617	8.216	9623	102014	0.545	7.051	#
33)		Chlordane...	7.706	8.332	189735	9463	9.156	0.766	#
34)		Chlordane...	0.000	9.009	0	36347	N.D.	5.766	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.706f	8.593f	189735	93331	227.933	83.333	#
37)		Toxaphene...	7.944f	0.000	2059	0	1.366	N.D.	#
38)		Toxaphene...	0.000	8.965f	0	3804	N.D.	1.753	#
39)		Toxaphene...	8.520f	9.009	38990	36347	7.894	1.578	#
40)		Toxaphene...	0.000	9.203	0	13388	N.D.	4.132	#
41)		Toxaphene...	8.858	0.000	147950	0	48.773	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

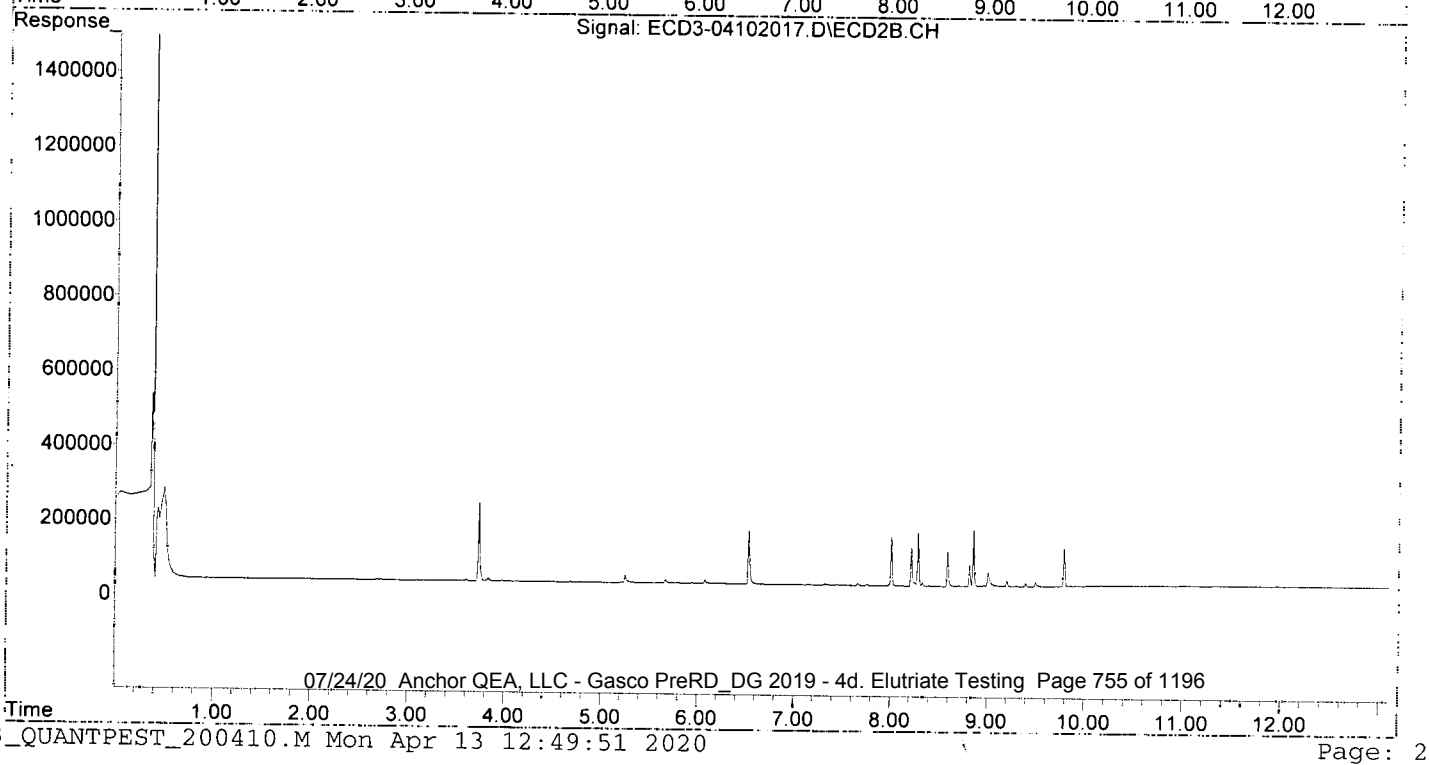
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:42:55 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:08 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

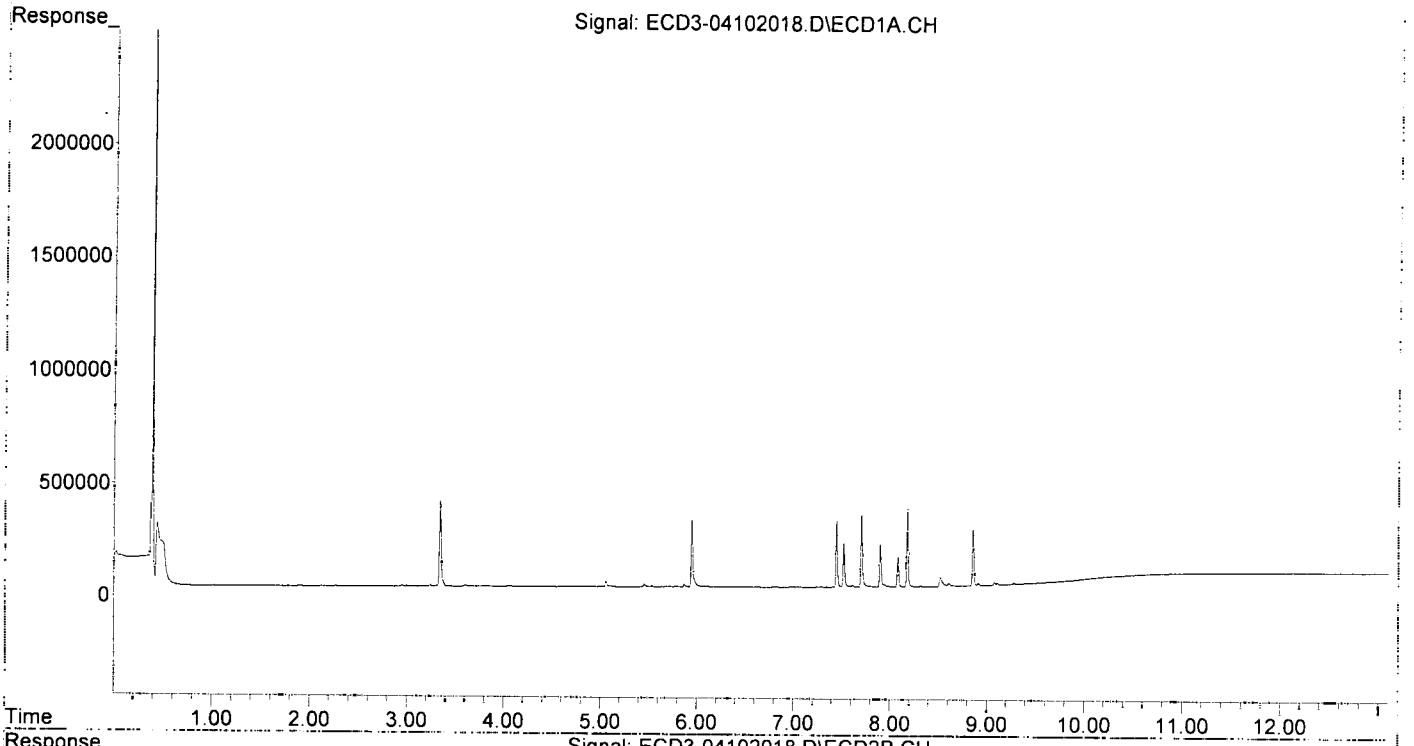
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.533f	6.080	5051	9196	0.034	1884.033 #
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6)	d-BHC	0.000	7.319	0	3566	N.D.	0.029 #
7)	Aldrin	0.000	7.661f	0	3523	N.D.	0.027 #
8)	Heptachlo...	7.523	0.000	197703	0	1.264	N.D. #
9)	trans-Chl...	7.616	8.216	8164	175821	0.052	1.458 #
10)	cis-Chlor...	7.706	8.331	319860	15042	2.038	0.130 #
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13)	Dieldrin	0.000	8.592	0	158108	N.D.	1.320 #
14)	Endrin	8.181f	8.818	342161	96604	2.774	1.117 #
15)	4,4'-DDD	8.181	8.858	342161	262929	2.818	2.786
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin Al...	8.610	9.203	13355	10519	BelowCal	3407.077
19)	Endosulfa...	8.915	9.395	10240	7570	0.085	0.090
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	9.111	9.790	6943	167144	0.048	1.747 #
23)	Hexachlor...	3.342	3.736	381441	372830	2.041	2.064
24)	Hexachlor...	5.948	6.533	294999	248384	2.013	2.037
25)	Oxychlordane	7.448	8.011	296003	226120	2.088	2.073
26)	2,4'-DDE	7.523	8.216	197703	175821	2.008	2.044
27)	trans-Non...	7.706	8.287	319860	251420	2.027	2.060
28)	2,4'-DDD	7.900	8.592	187358	158108	2.084	2.085
29)	2,4'-DDT	8.083	8.818	133977	96604	1.780	1.801
30)	cis-Nonac...	8.181	8.858	342161	262929	2.025	2.027
31)	Mirex	8.858	9.790	248901	167144	2.145	2.055
32)	Chlordane...	7.616	8.216	8164	175821	0.463	12.153 #
33)	Chlordane...	7.706	8.331	319860	15042	15.436	1.217 #
34)	Chlordane...	0.000	9.009	0	36045	N.D.	5.682 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.706f	8.592f	319860	158108	384.255	141.170 #
37)	Toxaphene...	7.946f	0.000	8823	0	5.855	N.D. #
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39)	Toxaphene...	8.523	9.009	37849	36045	7.486	1.482 #
40)	Toxaphene...	0.000	9.203	0	10519	N.D.	2.546 #
41)	Toxaphene...	8.858	0.000	248901	0	82.052	N.D. #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

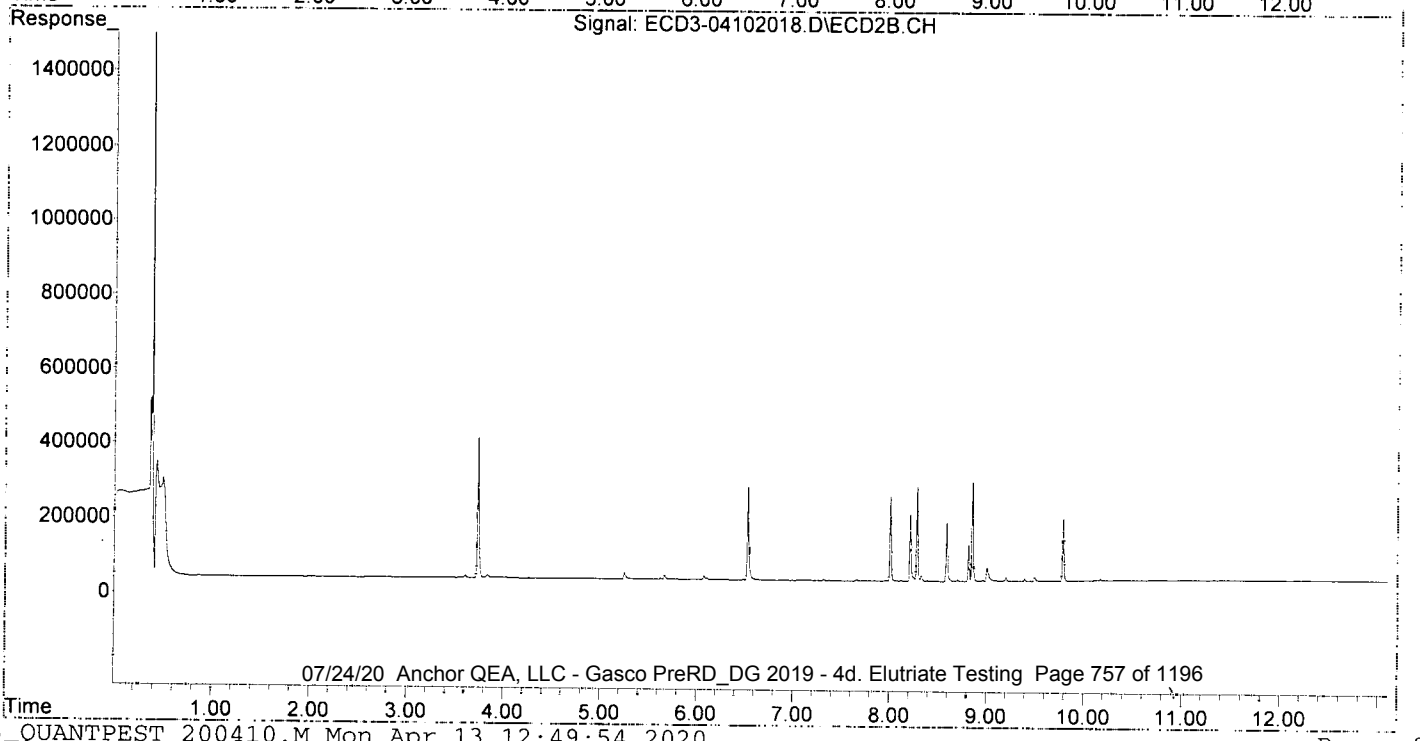
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:08 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:21 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

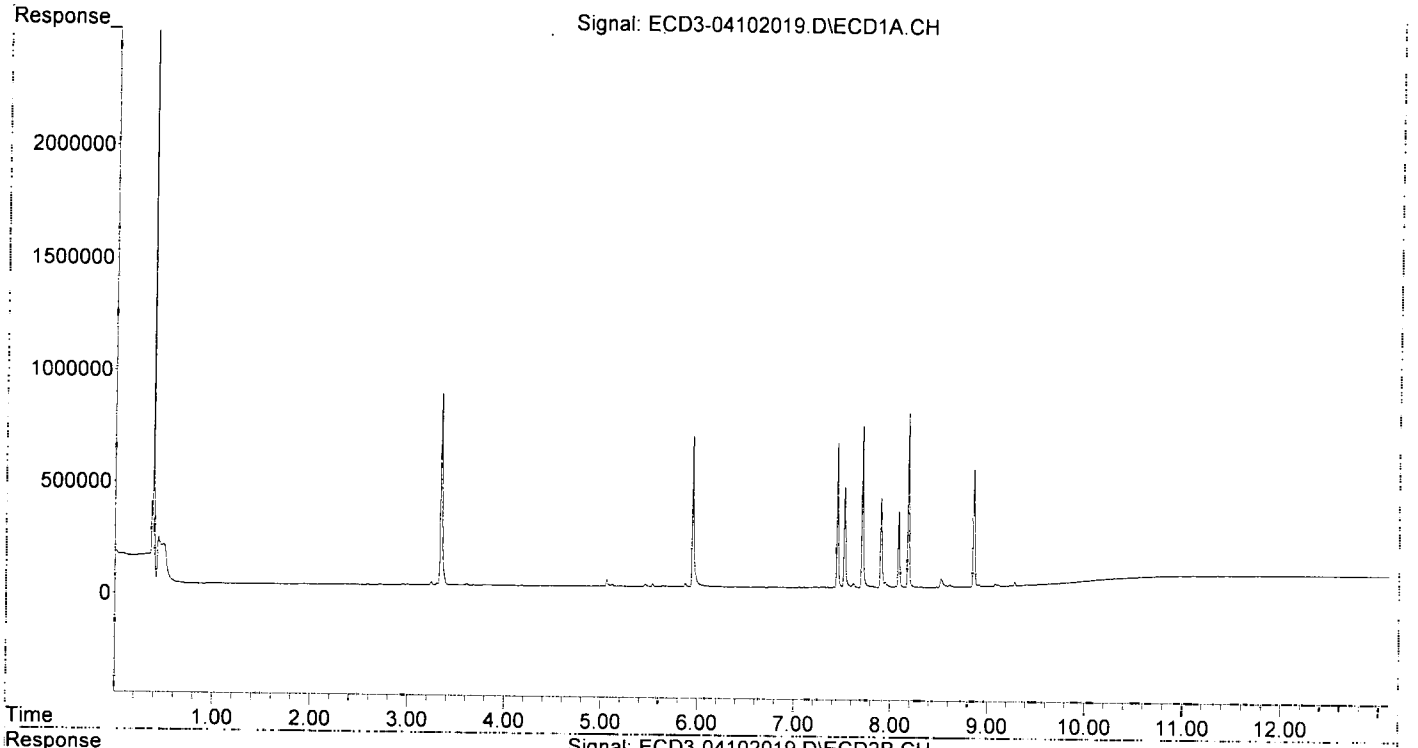
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.080	12101	11703	0.082	1884.011	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	0.000	7.659	0	6496	N.D.	0.049	#
8)	Heptachlo...	7.522	8.114f	448996	3780	2.871	0.032	#
9)	trans-Chl...	7.617	8.216	18264	395444	0.116	3.279	#
10)	cis-Chlor...	7.705	8.331	722033	30767	4.600	0.266	#
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	0.000	8.591	0	342154	N.D.	2.857	#
14)	Endrin	8.181f	8.817	779953	240393	6.322	2.781	#
15)	4,4'-DDD	8.181	8.857	779953	594209	6.424	6.297	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.609	9.202	9586	7224	BelowCal	3407.118	
19)	Endosulfa...	8.914	9.394	8716	5554	0.072	0.066	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.111	9.790	5899	369585	0.041	3.863	#
23)	Hexachlor...	3.342	3.736	857802	848292	4.798	4.977	
24)	Hexachlor...	5.947	6.532	674330	553413	4.859	4.844	
25)	Oxychlordane	7.447	8.010	646772	490301	4.797	4.756	
26)	2,4'-DDE	7.522	8.216	448996	395444	4.788	4.891	
27)	trans-Non...	7.705	8.286	722033	557194	4.836	4.840	
28)	2,4'-DDD	7.899	8.591	402442	342154	4.726	4.855	
29)	2,4'-DDT	8.082	8.817	343961	240393	4.569	4.482	
30)	cis-Nonac...	8.181	8.857	779953	594209	4.883	4.882	
31)	Mirex	8.858	9.790	521342	369585	4.900	5.050	
32)	Chlordane...	7.617	8.216	18264	395444	1.035	27.334	#
33)	Chlordane...	7.705	8.331	722033	30767	34.844	2.489	#
34)	Chlordane...	0.000	9.009	0	36078	N.D.	5.691	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.705f	8.591f	722033	342154	867.396	305.500	#
37)	Toxaphene...	7.946f	0.000	23548	0	15.627	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.521	9.009	38451	36078	7.701	1.492	#
40)	Toxaphene...	0.000	9.202	0	7224	N.D.	0.725	#
41)	Toxaphene...	8.858	0.000	521342	0	171.865	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

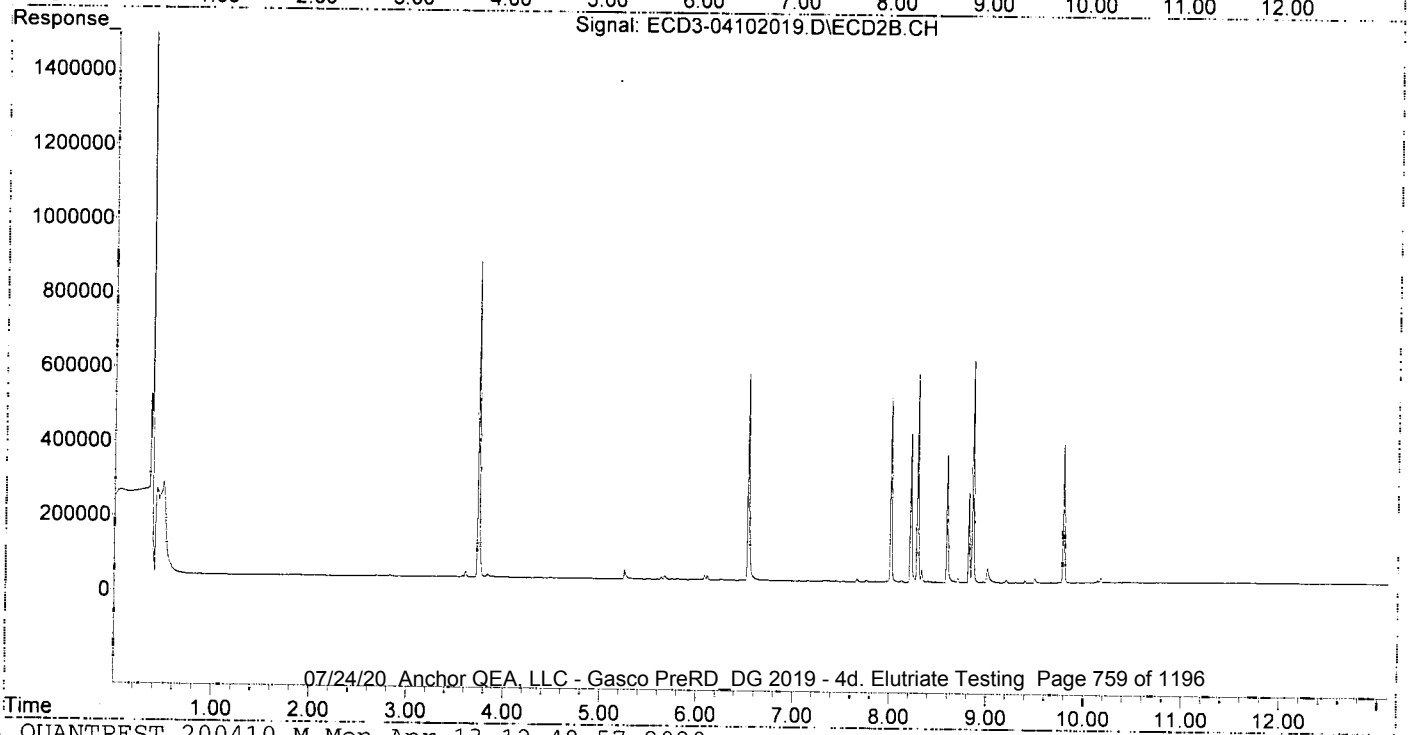
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:21 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 4/12/20

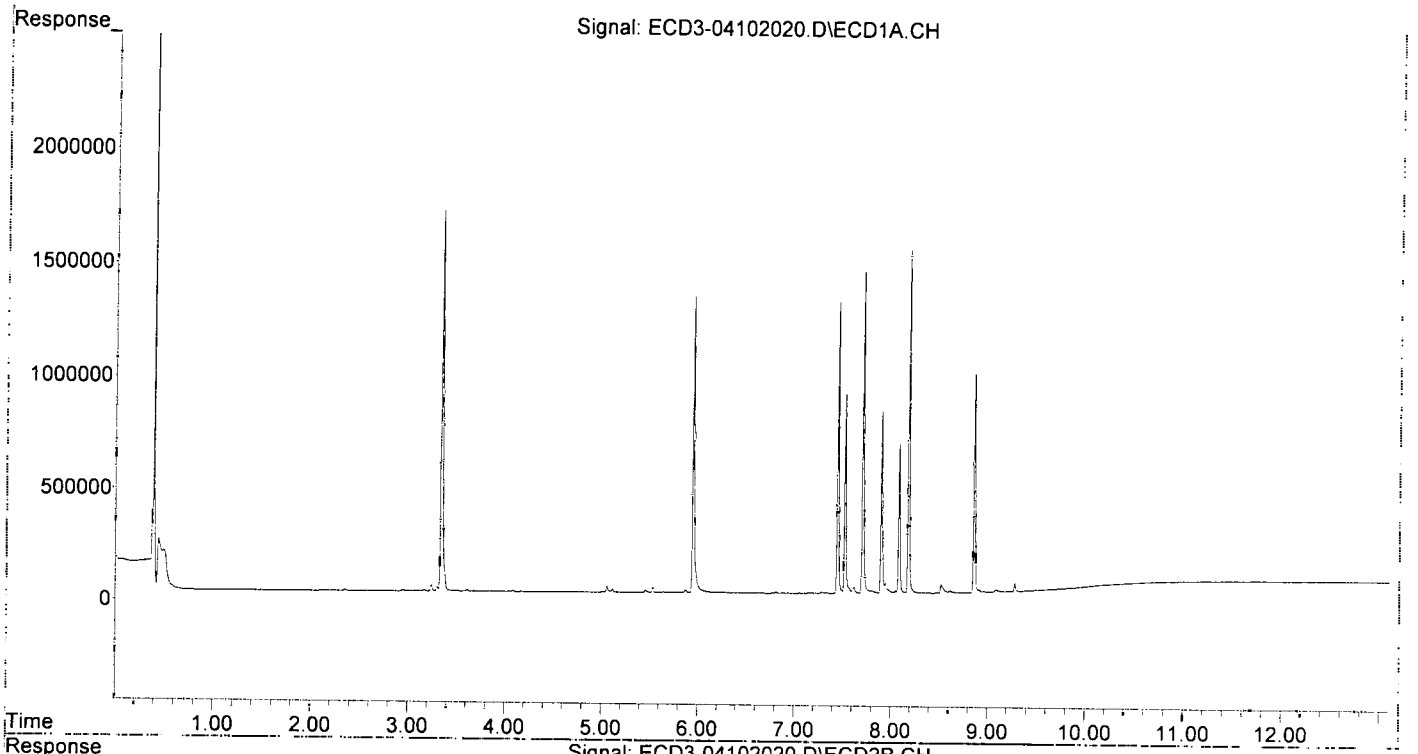
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.533f	6.080	22207	9206	0.150	1884.033	#
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.810	7.372	5813	3957	0.036	0.035	
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	0.000	7.660	0	5207	N.D.	0.039	#
8)	Heptachlo...	7.522	8.116f	889087	7448	5.685	0.063	#
9)	trans-Chl...	7.617	8.217	26327	776105	0.167	6.435	#
10)	cis-Chlor...	7.705	8.332	1431403	56624	9.119	0.489	#
11)	Endosulfa...	7.815	8.395	6196	5549	0.043	0.052	
12)	4,4'-DDE	7.795f	0.000	6661	0	0.046	N.D.	#
13)	Dieldrin	0.000	8.592	0	665503	N.D.	5.558	#
14)	Endrin	8.181f	8.818	1524562	472159	12.358	5.462	#
15)	4,4'-DDD	8.181	8.858	1524562	1133487	12.558	12.012	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.611	9.203	9119	6089	BelowCal	3407.132	
19)	Endosulfa...	8.913	9.395	9161	5052	0.076	0.060	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.111	9.790	5927	672336	0.041	7.027	#
23)	Hexachlor...	3.342	3.736	1689587	1632647	9.629	9.828	
24)	Hexachlor...	5.947	6.532	1319038	1101770	9.686	9.908	
25)	Oxychlordane	7.447	8.011	1300026	992994	9.839	9.873	
26)	2,4'-DDE	7.522	8.217	889087	776105	9.646	9.845	
27)	trans-Non...	7.705	8.287	1431403	1088724	9.788	9.692	
28)	2,4'-DDD	7.899	8.592	809760	665503	9.727	9.733	
29)	2,4'-DDT	8.082	8.818	665398	472159	8.839	8.802	
30)	cis-Nonac...	8.181	8.858	1524562	1133487	9.740	9.544	
31)	Mirex	8.858	9.790	976519	672336	9.508	9.538	
32)	Chlordane...	7.617	8.217	26327	776105	1.492	53.646	#
33)	Chlordane...	7.705	8.332	1431403	56624	69.076	4.581	#
34)	Chlordane...	0.000	9.009	0	34770	N.D.	5.327	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.705f	8.592f	1431403	665503	1719.578	594.209	#
37)	Toxaphene...	7.946f	0.000	44010	0	29.207	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.521	9.009	37032	34770	7.194	1.073	#
40)	Toxaphene...	0.000	9.203	0	6089	N.D.	0.097	#
41)	Toxaphene...	8.858	0.000	976519	0	321.918	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

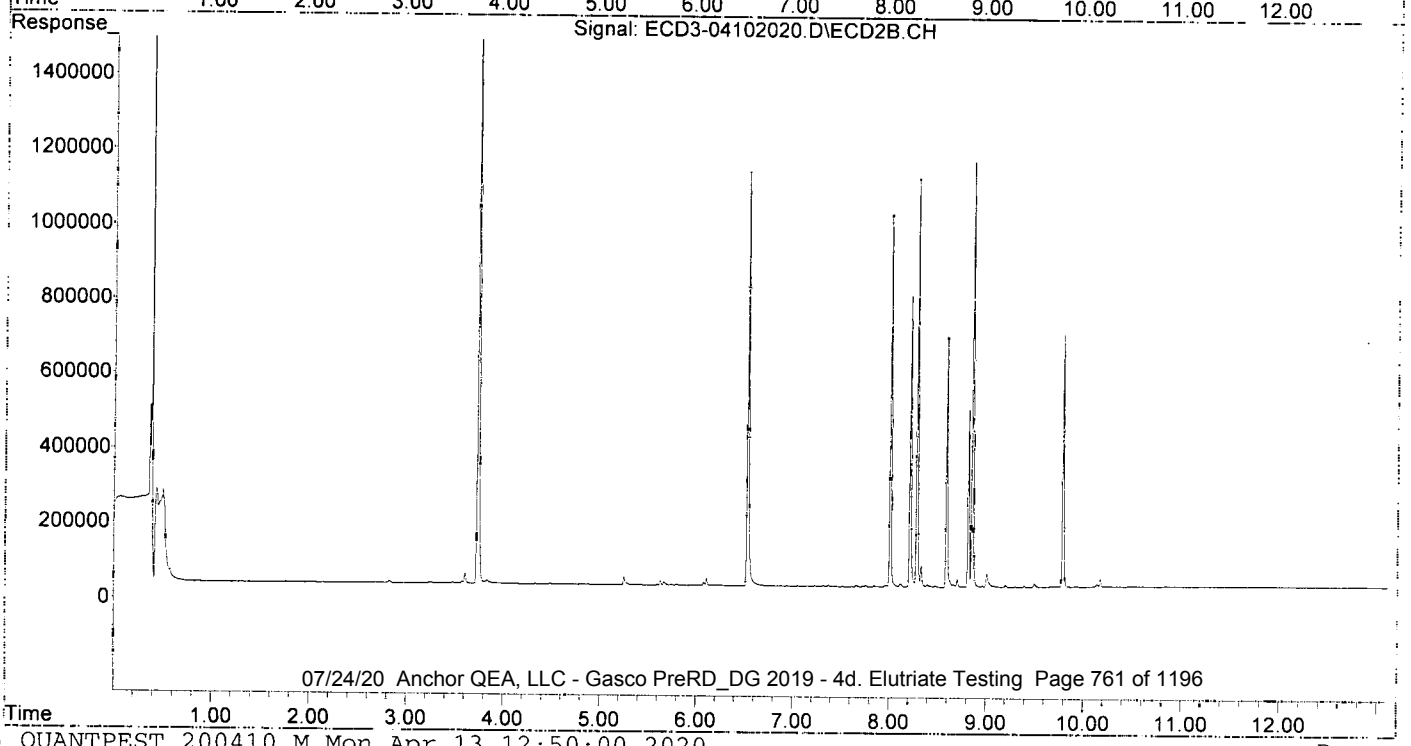
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

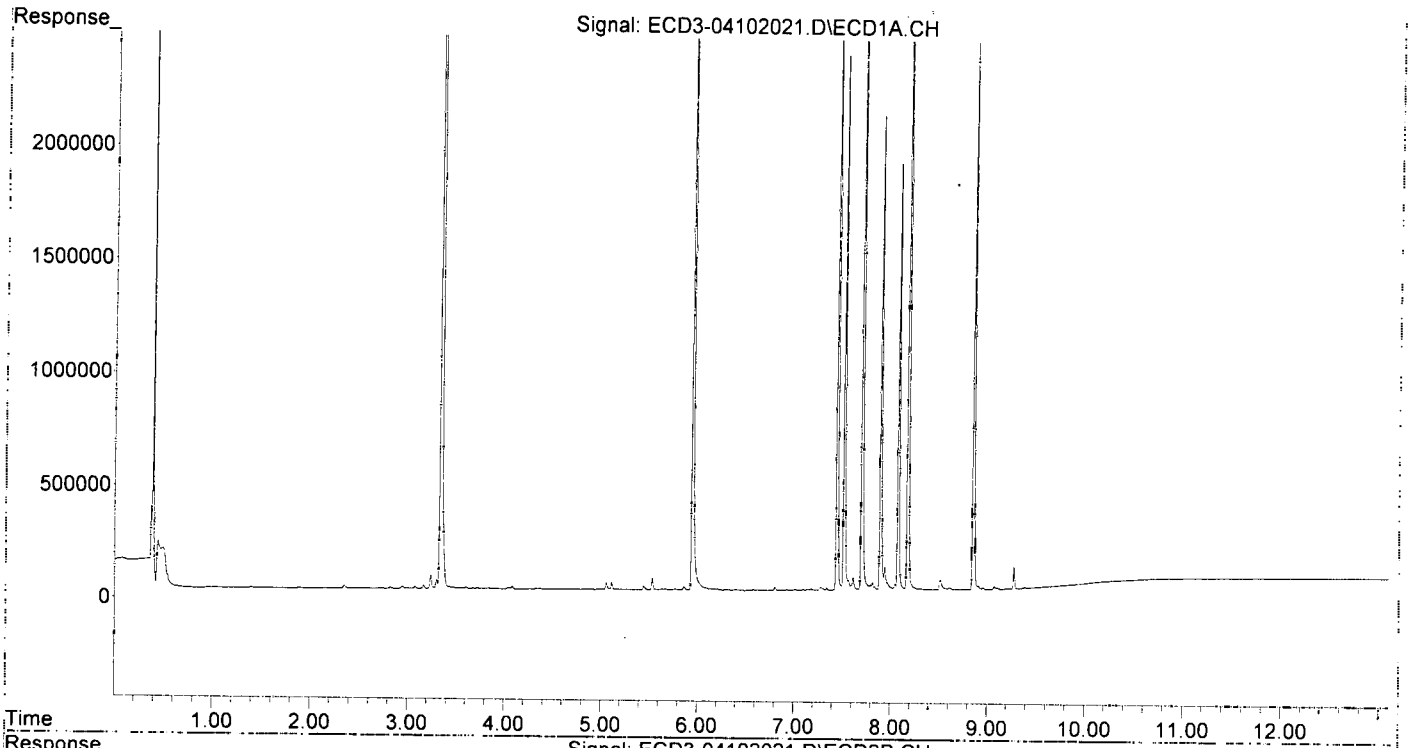
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.074	52823	10043	0.357	1884.026	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	6.097	6.651f	4599	1728	0.023	0.011	#
3)	g-BHC	0.000	7.030f	0	1206	N.D.	0.009	#
4)	b-BHC	0.000	7.030f	0	1206	N.D.	0.020	#
5)	Heptachlor	6.807	7.371	15623	10808	0.095	0.095	
6)	d-BHC	0.000	7.317	0	2799	N.D.	0.023	#
7)	Aldrin	0.000	7.656	0	8817	N.D.	0.066	#
8)	Heptachlo...	7.519	8.114f	2370241	17721	15.157	0.151	#
9)	trans-Chl...	7.615	8.215	58779	1938260	0.374	16.071	#
10)	cis-Chlor...	7.704	8.330	3612570	122932	23.014	1.061	#
11)	Endosulfa...	7.815	8.393	33177	9086	0.231	0.084	#
12)	4,4'-DDE	7.794f	8.475f	21658	9137	0.150	0.079	#
13)	Dieldrin	7.970	8.591	29915	1648579	0.186	13.768	#
14)	Endrin	8.179f	8.817	3931964	1331674	31.873	15.404	#
15)	4,4'-DDD	8.179f	8.856	3931964	2939943	32.387	31.155	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.610	9.201	8548	5871	BelowCal	3407.135	
19)	Endosulfa...	0.000	9.393	0	5536	N.D.	0.066	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.109	9.789	6543	1721066	0.045	17.989	#
23)	Hexachlor...	3.342	3.736	4236498	3836415	24.564	23.775	
24)	Hexachlor...	5.948	6.532	3410831	2741174	25.265	25.190	
25)	Oxychlordane	7.446	8.009	3280717	2462430	25.099	24.924	
26)	2,4'-DDE	7.519	8.215	2370241	1938260	25.890	25.115	
27)	trans-Non...	7.704	8.286	3612570	2768485	24.979	25.188	
28)	2,4'-DDD	7.897	8.591	2101228	1648579	25.552	24.658	
29)	2,4'-DDT	8.081	8.817	1890884	1331674	25.118	24.826	
30)	cis-Nonac...	8.179	8.856	3931964	2939943	25.386	25.287	
31)	Mirex	8.856	9.789	2445934	1721066	24.423	25.174	
32)	Chlordane...	7.615	8.215	58779	1938260	3.330	133.976	#
33)	Chlordane...	7.704	8.330	3612570	122932	174.335	9.945	#
34)	Chlordane...	0.000	9.005	0	36798	N.D.	5.891	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.704	8.591f	3612570	1648579	4339.864	1471.970	#
37)	Toxaphene...	7.970	0.000	29915	0	19.853	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.515f	9.005	44025	36798	9.693	1.723	#
40)	Toxaphene...	0.000	9.201	0	5871	N.D.	BelowCal	
41)	Toxaphene...	8.856	0.000	2445934	0	806.324	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

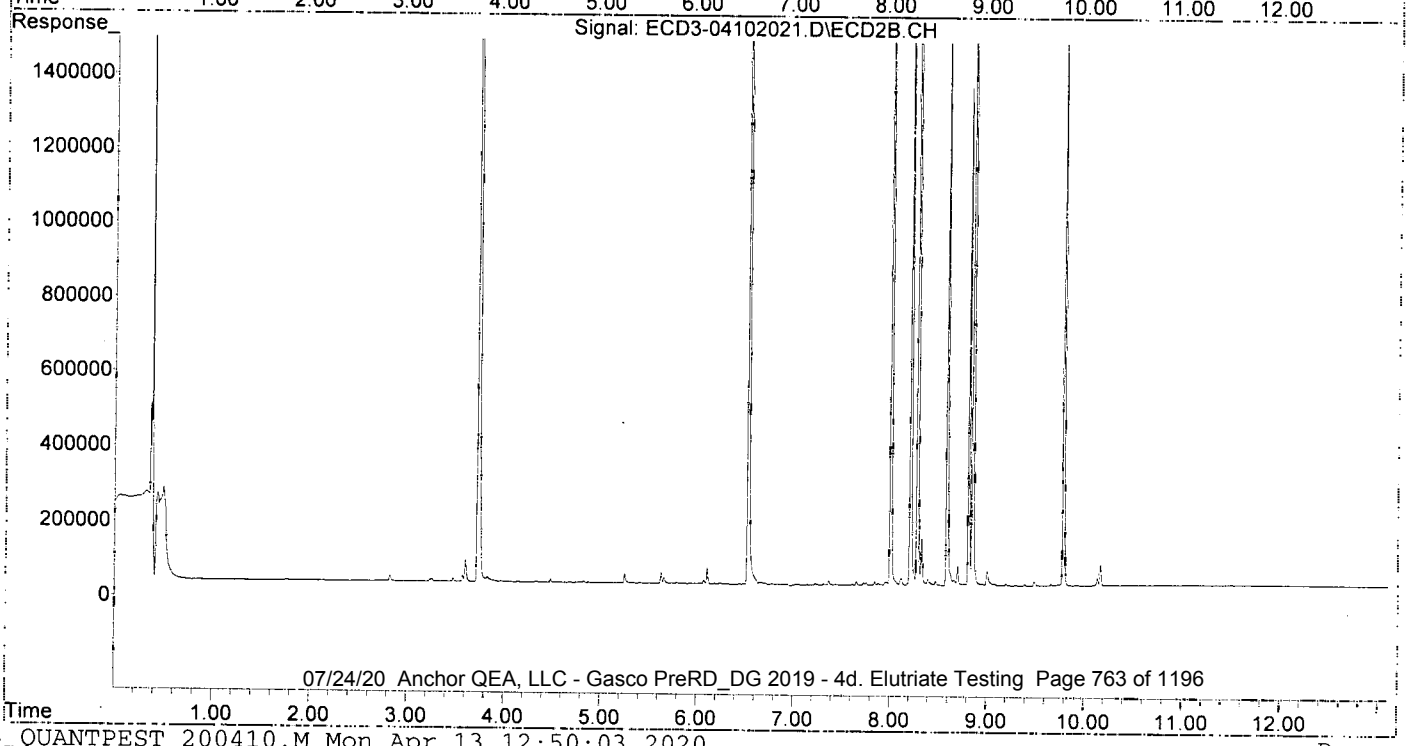
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:57 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

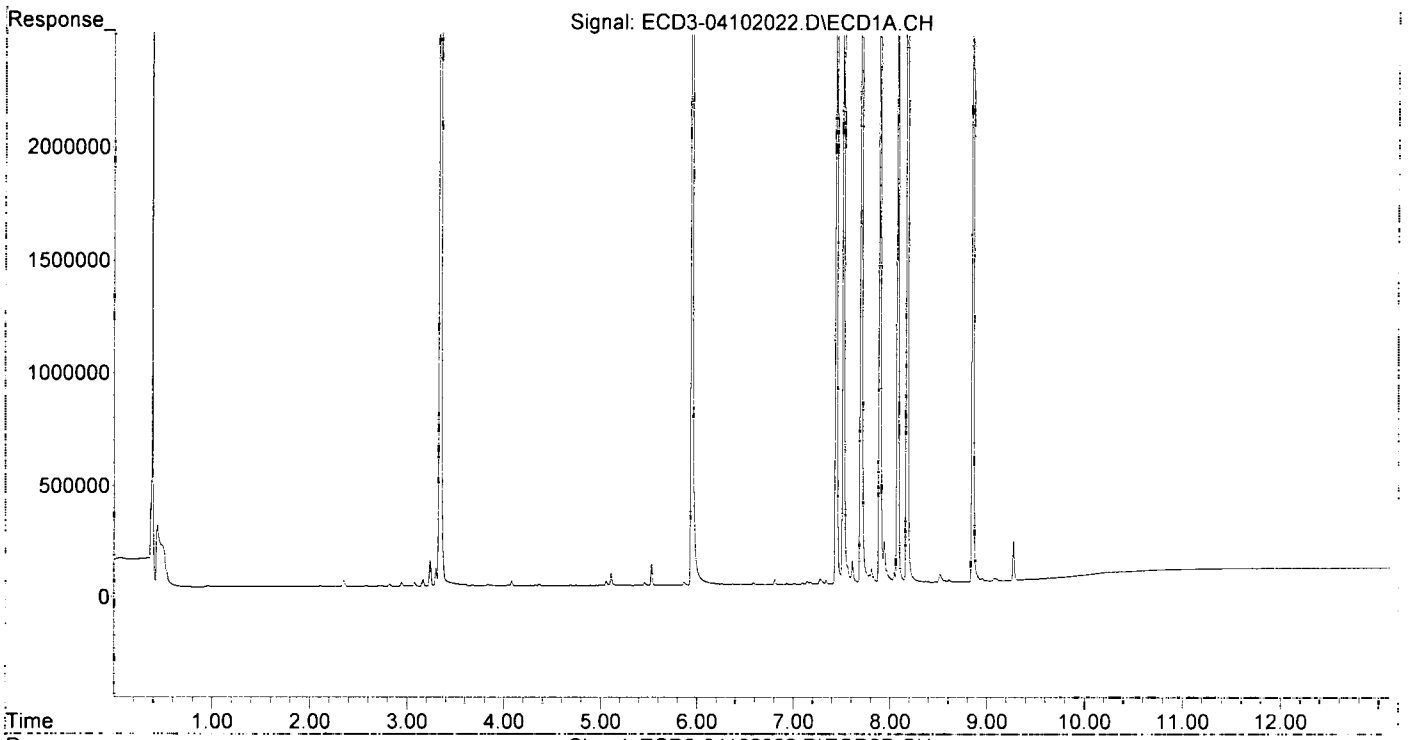
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.080	94172	9796	0.636	1884.028	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.810	7.371	23336	18527	0.143	0.164	
6)	d-BHC	6.588f	7.319	8010	3524	0.057	0.029	#
7)	Aldrin	0.000	7.658	0	8471	N.D.	0.064	#
8)	Heptachlo...	7.520	8.114f	4518917	30334	28.896	0.258	#
9)	trans-Chl...	7.615	8.215	101252	3659885	0.643	30.347	#
10)	cis-Chlor...	7.703	8.331	6909845	229920	44.020	1.985	#
11)	Endosulfa...	7.814	8.393	64035	26052	0.446	0.242	#
12)	4,4'-DDE	7.795f	8.414f	36993	15443	0.256	0.134	#
13)	Dieldrin	7.970	8.591	52423	3205195	0.326	26.767	#
14)	Endrin	8.180f	8.817	7558026	2644918	61.266	30.595	#
15)	4,4'-DDD	8.180f	8.857	7558026	5676373	62.255	60.153	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.615	9.203	10041	4822	BelowCal	3407.148	
19)	Endosulfa...	0.000	9.393	0	3826	N.D.	0.045	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	9.093	9.789	11953	3205930	0.083	33.508	#
23)	Hexachlor...	3.342	3.736	8735674	7661028	51.490	49.228	
24)	Hexachlor...	5.948	6.532	6661991	5176901	49.234	48.306	
25)	Oxychlordane	7.446	8.010	6240780	4745169	47.825	48.589	
26)	2,4'-DDE	7.520	8.215	4518917	3659885	49.172	48.154	
27)	trans-Non...	7.703	8.286	6909845	5248360	47.853	48.536	
28)	2,4'-DDD	7.897	8.591	4001953	3205195	48.766	48.587	
29)	2,4'-DDT	8.081	8.817	3806076	2644918	50.559	49.309	
30)	cis-Nonac...	8.180	8.857	7558026	5676373	48.799	49.519	
31)	Mirex	8.856	9.789	4722341	3205930	47.654	47.553	
32)	Chlordane...	7.615	8.215	101252	3659885	5.736	252.978	#
33)	Chlordane...	7.703	8.331	6909845	229920	333.454	18.600	#
34)	Chlordane...	0.000	9.008	0	32789	N.D.	4.777	#
35)	Chlordane...	3.836	0.000	5318	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	6909845	3205195	8300.958	2861.829	#
37)	Toxaphene...	7.970	0.000	52423	0	34.790	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.521	9.008	36713	32789	7.080	0.438	#
40)	Toxaphene...	0.000	9.203	0	4822	N.D.	BelowCal	
41)	Toxaphene...	8.856	0.000	4722341	0	1556.761	N.D.	#
42)	Toxaphene...	3.836	0.000	5318	0	NoCal	N.D.	

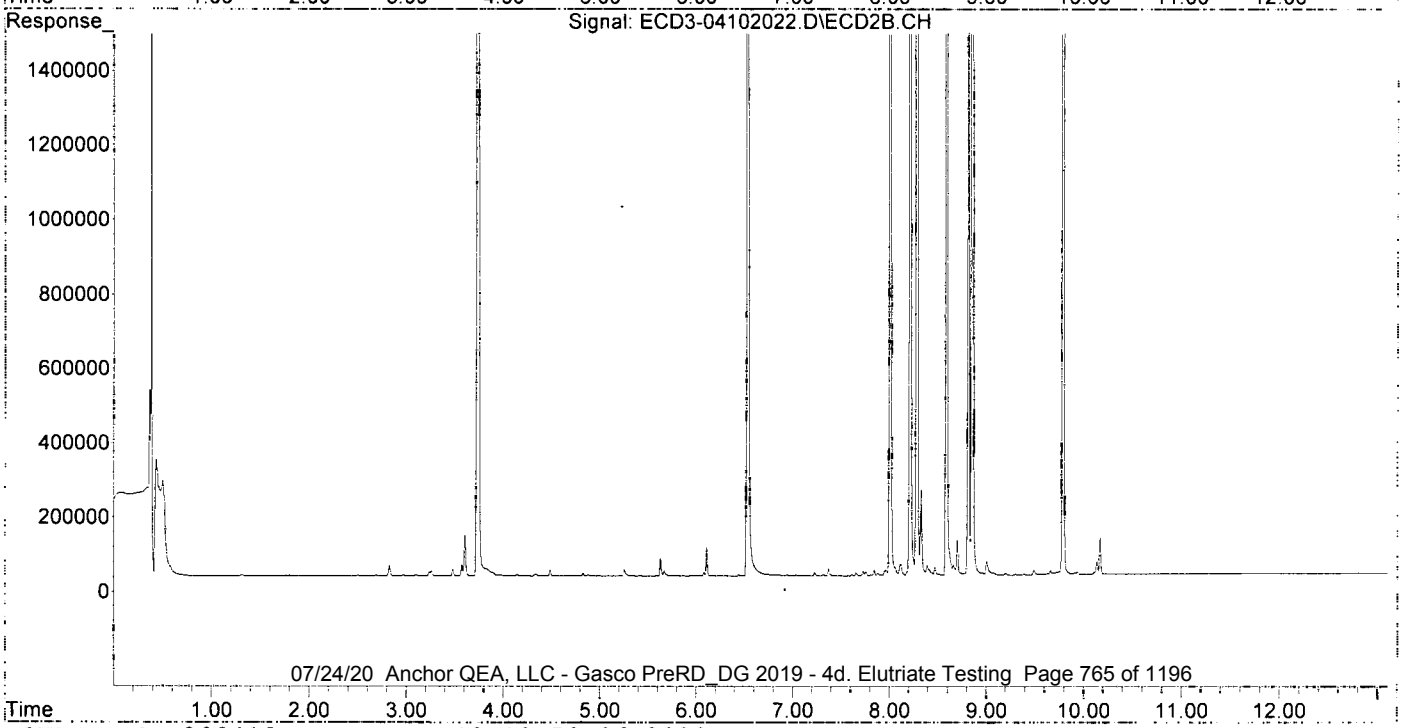
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:43:57 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

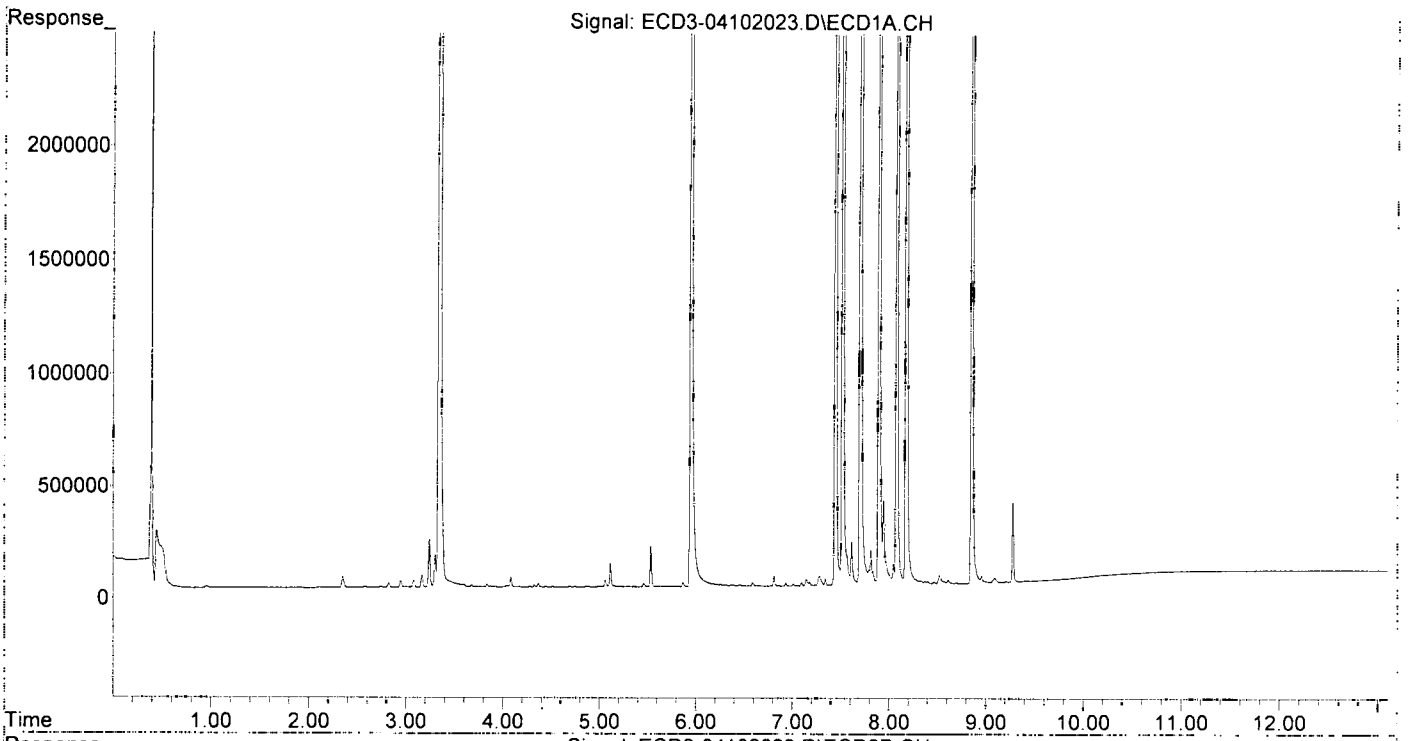
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.533f	6.080	186316	7775	1.258	1884.046	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.809	7.371	42400	33935	0.259	0.300	
6)	d-BHC	6.587f	7.318	12824	4598	0.091	0.038	#
7)	Aldrin	0.000	7.612f	0	7521	N.D.	0.057	#
8)	Heptachlo...	7.519	8.113f	9420136	48794	60.238	0.415	#
9)	trans-Chl...	7.614	8.214	192566	7319258	1.224	60.689	#
10)	cis-Chlor...	7.703	8.330	14841913	457744	94.553	3.952	#
11)	Endosulfa...	7.813	8.392	153219	45418	1.068	0.422	#
12)	4,4'-DDE	7.793f	8.413f	67330	28362	0.467	0.246	#
13)	Dieldrin	7.970	8.591	103627	6389450	0.645	53.360	#
14)	Endrin	8.179f	8.817	15616314	5426818	126.588	62.774	#
15)	4,4'-DDD	8.179f	8.857	15616314	11378214	128.630	120.575	
16)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
17)	4,4'-DDT	8.398	9.071	9396	8269	0.202	0.222	
18)	Endrin Al...	8.616	9.204	14755	6407	BelowCal	3407.128	
19)	Endosulfa...	0.000	9.393	0	3993	N.D.	0.047	#
20)	Methoxychlor	0.000	9.532f	0	1853	N.D.	0.116	#
21)	Endrin Ke...	9.094	9.789	19703	6667267	0.137	69.686	#
23)	Hexachlor...	3.342	3.736	17207142	14843032	104.257	102.509	
24)	Hexachlor...	5.948	6.532	13905902	10342257	101.618	99.096	
25)	Oxychlordane	7.446	8.009	13063239	9423897	99.850	98.227	
26)	2,4'-DDE	7.519	8.214	9420136	7319258	101.092	98.934	
27)	trans-Non...	7.703	8.285	14841913	10461112	102.435	99.641	
28)	2,4'-DDD	7.896	8.591	8200834	6389450	99.723	98.738	
29)	2,4'-DDT	8.081	8.817	7906836	5426818	105.033	101.172	
30)	cis-Nonac...	8.179	8.857	15616314	11378214	100.187	101.619	
31)	Mirex	8.856	9.789	9796794	6667267	100.001	100.875	
32)	Chlordane...	7.614	8.214	192566	7319258	10.910	505.920	#
33)	Chlordane...	7.703	8.330	14841913	457744	716.238	37.030	#
34)	Chlordane...	0.000	9.009	0	33465	N.D.	4.965	#
35)	Chlordane...	3.837	0.000	10557	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	14841913	6389450	17829.938	5704.962	#
37)	Toxaphene...	7.970	0.000	103627	0	68.772	N.D.	#
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)	Toxaphene...	8.523	9.009	34901	33465	6.432	0.655	#
40)	Toxaphene...	0.000	9.204	0	6407	N.D.	0.273	#
41)	Toxaphene...	8.856	0.000	9796794	0	3229.600	N.D.	#
42)	Toxaphene...	3.837	0.000	10557	0	NoCal	N.D.	

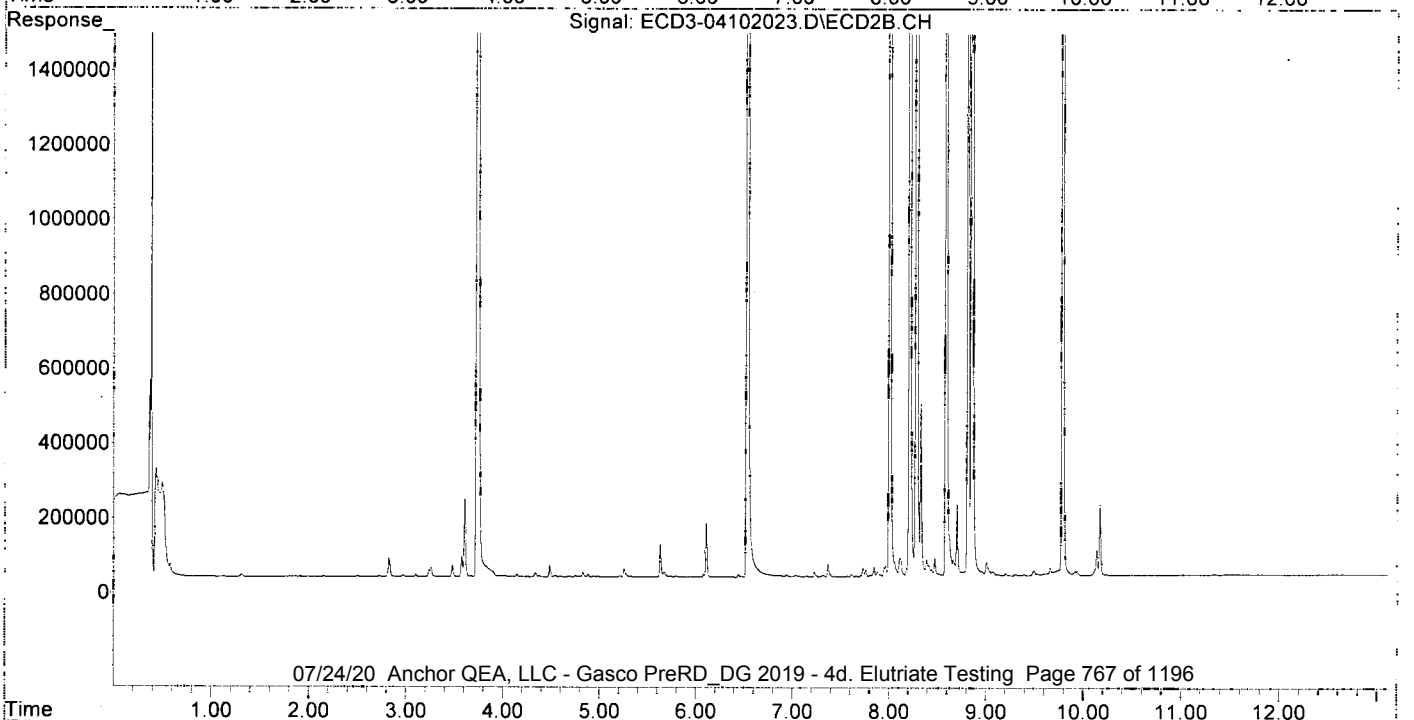
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WB 4/15/20

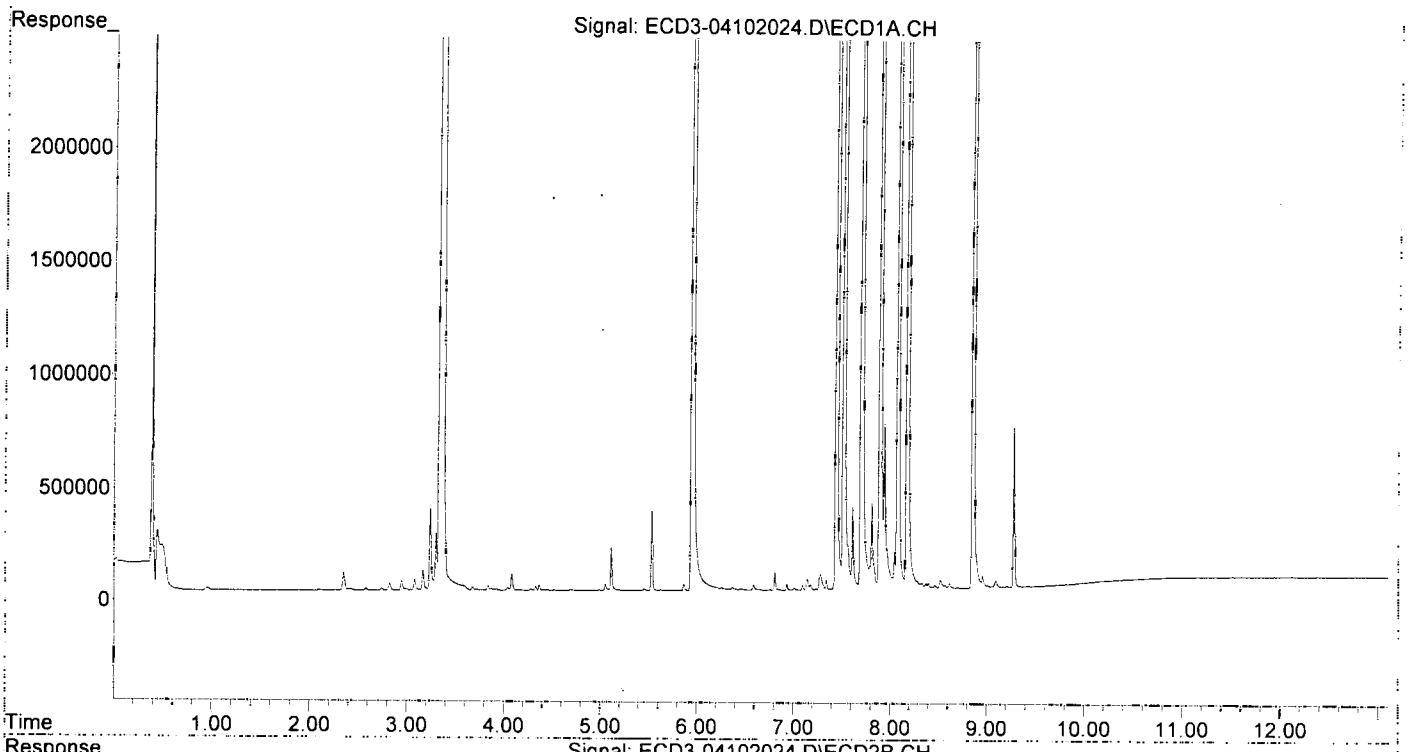
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.534f	6.079	359345	10141	2.426	1884.025	#
22)	S DCBP (S)	9.809	0.000	2232	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.369f	0.000	8854	0	0.051	N.D.	#
4)	b-BHC	0.000	7.033f	0	2985	N.D.	0.049	#
5)	Heptachlor	6.809	7.371	79067	59991	0.483	0.530	
6)	d-BHC	6.587f	7.319	21045	6630	0.150	0.054	#
7)	Aldrin	0.000	7.659	0	5955	N.D.	0.045	#
8)	Heptachlo...	7.519	8.060f	19110459	65627	122.203	0.558	#
9)	trans-Chl...	7.614	8.215	366865	14263135	2.331	118.266	#
10)	cis-Chlor...	7.703	8.331	29240286	822059	186.280	7.097	#
11)	Endosulfa...	7.813	8.393	387782	68738	2.702	0.639	#
12)	4,4'-DDE	7.792	8.444	106549	50715	0.739	0.440	#
13)	Dieldrin	7.969	8.591	185937	12705250	1.157	106.104	#
14)	Endrin	8.179f	8.817	31802143	11384733	257.793	131.692	#
15)	4,4'-DDD	8.179f	8.856	31802143	21372951	261.951	226.489	
16)	Endosulfa...	8.333	0.000	24618	0	0.203	N.D.	#
17)	4,4'-DDT	8.398	9.084	24199	13648	0.374	0.320	
18)	Endrin Al...	8.616	9.206	22531	10444	BelowCal	3407.078	
19)	Endosulfa...	0.000	9.393	0	4019	N.D.	0.048	#
20)	Methoxychlor	0.000	9.533f	0	7251	N.D.	0.326	#
21)	Endrin Ke...	9.094	9.790	30914	12929032	0.215	135.134	#
23)	Hexachlor...	3.343	3.737	30654926	25097902	194.647	200.014	
24)	Hexachlor...	5.948	6.533	27917200	20106640	199.269	202.938	
25)	Oxychlordane	7.446	8.010	26694991	18880326	202.369	203.786	
26)	2,4'-DDE	7.519	8.215	19110459	14263135	199.362	203.411	
27)	trans-Non...	7.703	8.286	29240286	20044391	199.965	202.343	
28)	2,4'-DDD	7.896	8.591	16682003	12705250	201.327	203.589	
29)	2,4'-DDT	8.081	8.817	16615671	11384733	220.720	212.245	
30)	cis-Nonac...	8.179	8.856	31802143	21372951	200.875	199.017	
31)	Mirex	8.856	9.790	19600089	12929032	203.440	201.899	
32)	Chlordane...	7.614	8.215	366865	14263135	20.785	985.893	#
33)	Chlordane...	7.703	8.331	29240286	822059	1411.071	66.502	#
34)	Chlordane...	0.000	9.009	0	34815	N.D.	5.340	#
35)	Chlordane...	3.837	0.000	19236	0	NoCal	N.D.	
36)	Toxaphene...	7.703	8.591f	29240286	12705250	35127.040	11344.164	#
37)	Toxaphene...	7.969	0.000	185937	0	123.396	N.D.	#
38)	Toxaphene...	8.333f	0.000	24618	0	7.915	N.D.	#
39)	Toxaphene...	8.521	9.009	38307	34815	7.649	1.087	#
40)	Toxaphene...	0.000	9.206	0	10444	N.D.	2.505	#
41)	Toxaphene...	8.856	9.533f	19600089	7251	6461.342	3.582	#
42)	Toxaphene...	3.837	0.000	19236	0	NoCal	N.D.	

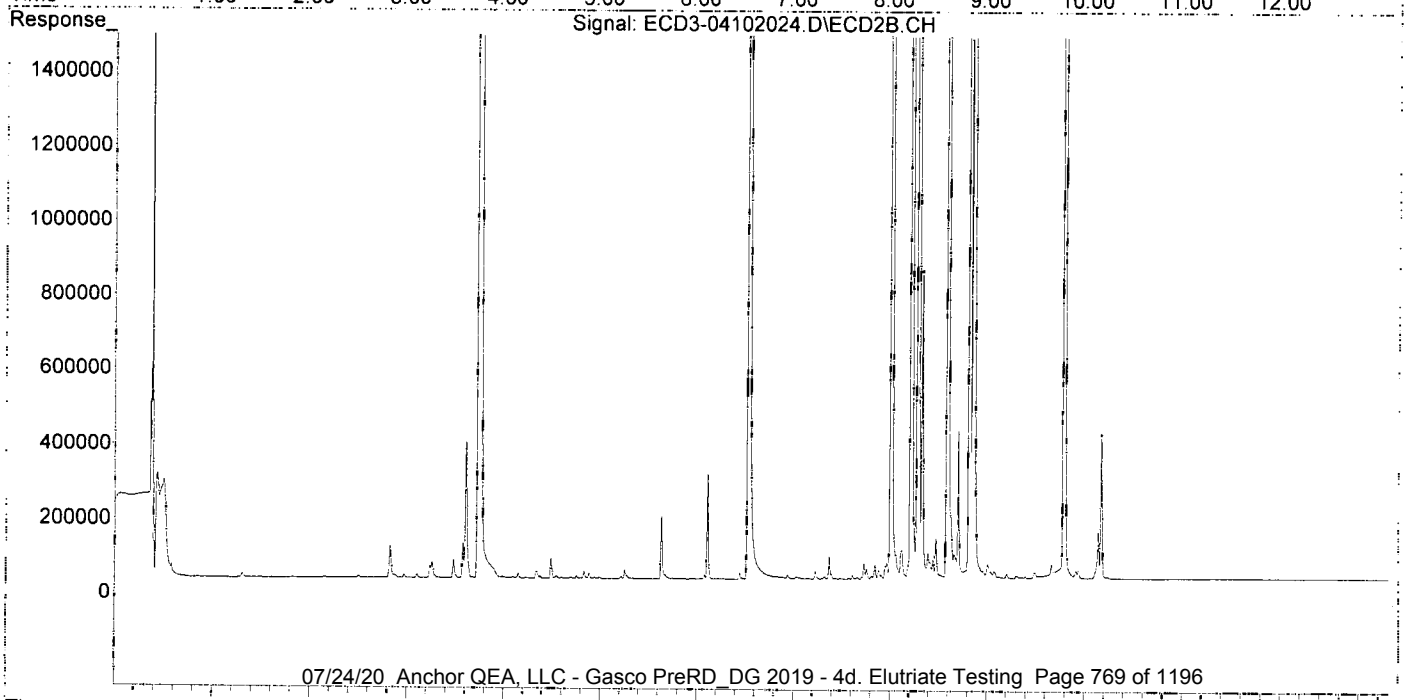
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:44:23 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:20 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

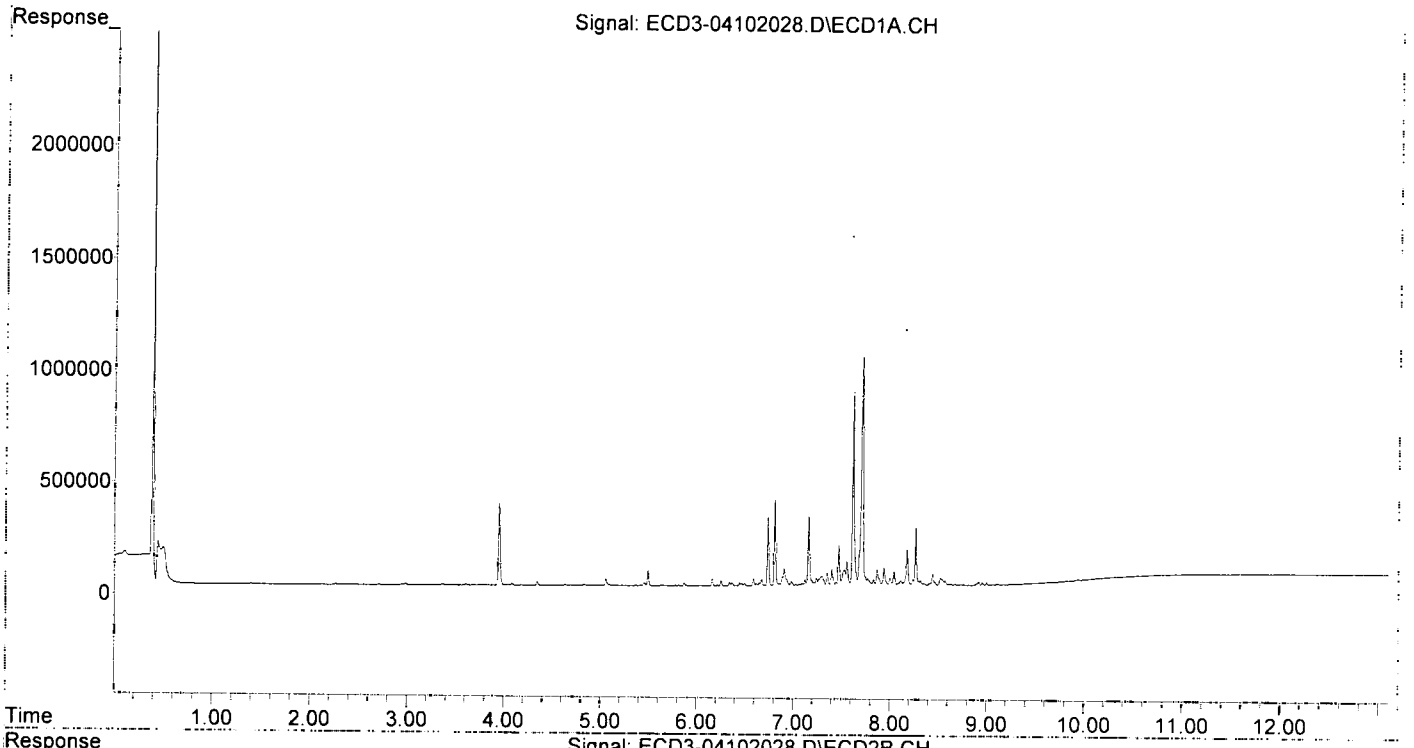
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.076	0	10952	N.D.	1884.018	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	6.698f	0	20695	N.D.	0.132	#
3)	g-BHC	6.364f	6.999	13365	11053	0.077	0.082	
4)	b-BHC	6.462	7.095f	10253	26119	0.150	0.425	#
5)	Heptachlor	6.806	7.369	385958	285923	2.357	2.526	
6)	d-BHC	6.615	0.000	8494	0	0.061	N.D.	#
7)	Aldrin	7.091f	7.674f	8759	43413	0.052	0.327	#
8)	Heptachlo...	7.525	8.099	69129	20796	0.442	0.177	#
9)	trans-Chl...	7.615	8.221	860072	734996	5.466	6.094	
10)	cis-Chlor...	7.709	8.329	1020612	633044	6.502	5.465	
11)	Endosulfa...	7.829	0.000	21856	0	0.152	N.D.	#
12)	4,4'-DDE	7.768	8.426	28530	19498	0.198	0.169	
13)	Dieldrin	7.999	8.583	26997	37380	0.168	0.312	#
14)	Endrin	8.178f	8.809	156980	17989	1.273	0.208	#
15)	4,4'-DDD	8.178f	8.856	156980	128038	1.293	1.357	
16)	Endosulfa...	8.315	8.971	14183	15185	0.117	0.166	#
17)	4,4'-DDT	0.000	9.065	0	17153	N.D.	0.385	#
18)	Endrin Al...	8.569f	9.231f	16338	37801	BelowCal	0.229	
19)	Endosulfa...	8.914	9.420f	14875	2829	0.123	0.034	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	0.000	9.795	0	10171	N.D.	0.106	#
23)	Hexachlor...	3.364f	0.000	5064	0	2108.673	N.D.	#
24)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)	Oxychlordane	7.441	8.022	13665	10995	BelowCal	3277.626	
26)	2,4'-DDE	7.525	8.221	69129	734996	0.583	9.309	#
27)	trans-Non...	7.709	8.285	1020612	545529	6.921	4.734	
28)	2,4'-DDD	7.867f	8.583	70128	37380	0.644	0.271	#
29)	2,4'-DDT	8.110f	8.809	16994	17989	0.226	0.335	#
30)	cis-Nonac...	8.178	8.856	156980	128038	0.814	0.866	
31)	Mirex	8.893f	9.795	7170	10171	7125.812	3567.379	#
32)	Chlordane...	7.615	8.221	860072	734996	48.728	50.804	
33)	Chlordane...	7.709	8.329	1020612	633044	49.252	51.212	✓
34)	Chlordane...	8.266	8.997	252424	195537	47.442	50.011	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.709f	8.583f	1020612	37380	1226.085	33.376	#
37)	Toxaphene...	7.999	8.912	26997	22357	17.916	16.390	
38)	Toxaphene...	8.315	8.948	14183	17018	4.560	7.841	#
39)	Toxaphene...	8.541	8.997	23503	195537	2.356	52.479	#
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

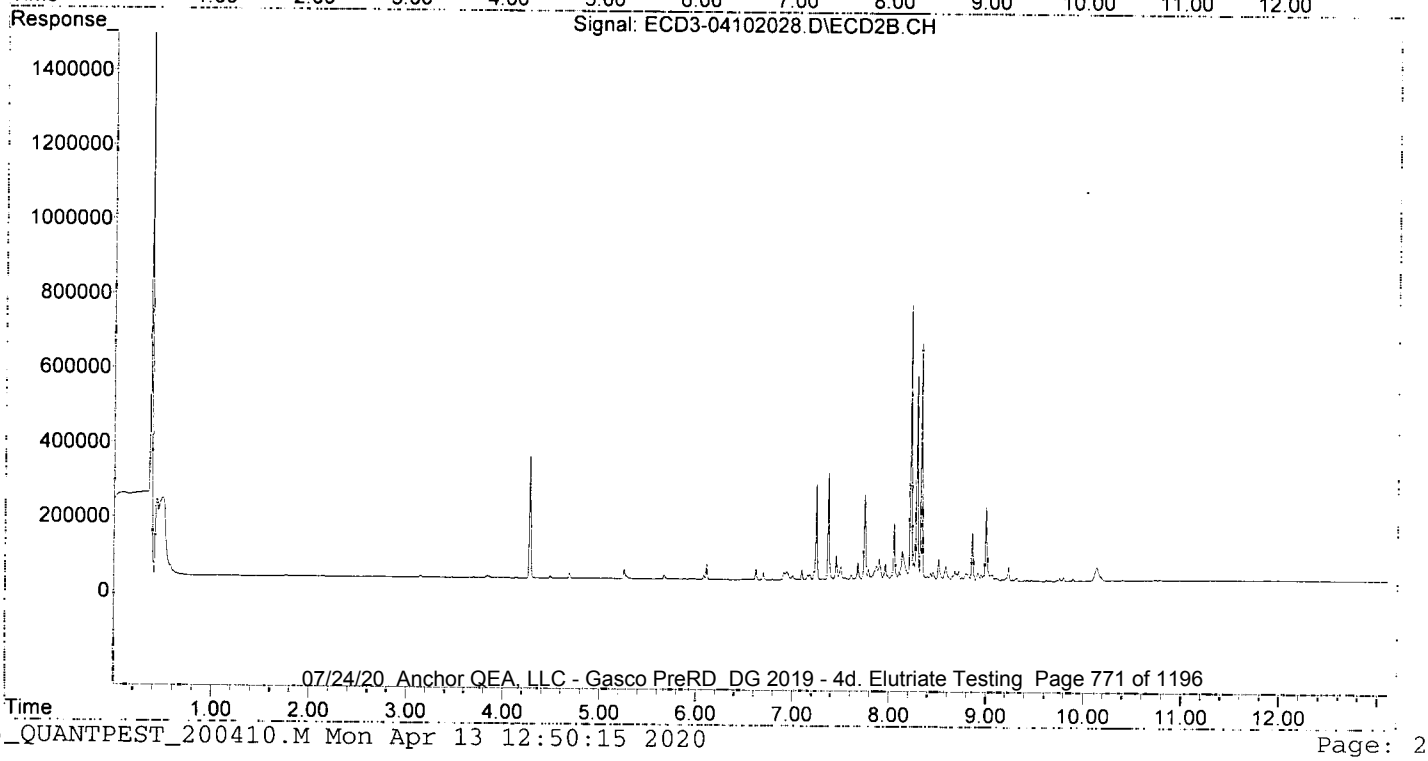
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:20 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:43 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

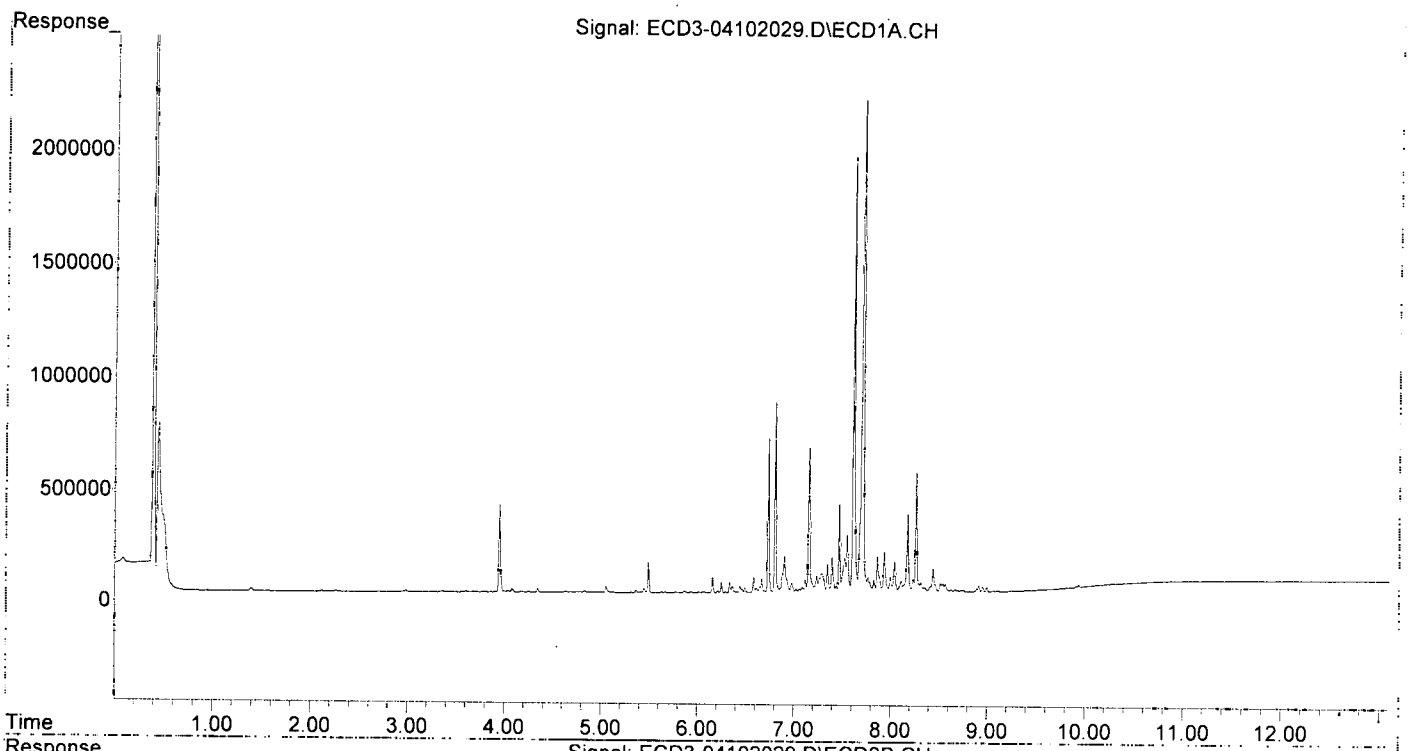
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.073	0	7934	N.D.	1884.044	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	6.698f	0	42321	N.D.	0.270	#
3)		g-BHC	6.363f	6.998	28128	23774	0.163	0.176	
4)		b-BHC	6.460	7.094f	15570	55757	0.228	0.908	#
5)		Heptachlor	6.805	7.368	844473	610304	5.157	5.391	
6)		d-BHC	6.612	0.000	18316	0	0.130	N.D.	#
7)		Aldrin	7.056	7.673f	9594	96434	0.057	0.726	#
8)		Heptachlo...	7.525	8.098	145160	49018	0.928	0.416	#
9)		trans-Chl...	7.613	8.220	1921243	1636710	12.209	13.571	
10)		cis-Chlor...	7.709	8.329	2178319	1360439	13.877	11.745	
11)		Endosulfa...	7.829	8.393	45473	23918	0.317	0.222	
12)		4,4'-DDE	7.768	8.425	56968	44606	0.395	0.387	
13)		Dieldrin	7.999	8.582	58485	86626	0.364	0.723	#
14)		Endrin	8.177f	8.808	336239	37325	2.726	0.432	#
15)		4,4'-DDD	8.177f	8.856	336239	269817	2.770	2.859	
16)		Endosulfa...	8.313	8.971	24470	31602	0.202	0.345	#
17)		4,4'-DDT	0.000	9.093	0	13271	N.D.	0.314	#
18)		Endrin Al...	8.628f	9.230f	8836	73697	BelowCal	0.676	
19)		Endosulfa...	8.914	9.421f	26753	7053	0.222	0.084	#
20)		Methoxychlor	8.728	0.000	7962	0	0.232	N.D.	#
21)		Endrin Ke...	0.000	9.795	0	17408	N.D.	0.182	#
23)		Hexachlor...	3.362f	0.000	5396	0	2108.671	N.D.	#
24)		Hexachlor...	0.000	6.504f	0	6137	N.D.	2197.572	#
25)		Oxychlordane	7.438	8.021	22321	29983	BelowCal	0.084	
26)		2,4'-DDE	7.525	8.220	145160	1636710	1.426	21.132	#
27)		trans-Non...	7.709	8.284	2178319	1223570	14.995	10.927	
28)		2,4'-DDD	7.865f	8.582	152125	86626	1.651	1.011	
29)		2,4'-DDT	8.109f	8.808	37830	37325	0.503	0.696	
30)		cis-Nonac...	8.177	8.856	336239	269817	1.986	2.086	
31)		Mirex	8.891f	9.795	15556	17408	7125.727	3567.272	#
32)		Chlordane...	7.613	8.220	1921243	1636710	108.849	113.132	
33)		Chlordane...	7.709	8.329	2178319	1360439	105.121	110.056	
34)		Chlordane...	8.265	8.997	525276	395685	98.723	105.631	
35)		Chlordane...	0.000	3.829f	0	6016	N.D.	NoCal	
36)		Toxaphene...	7.709f	8.582f	2178319	86626	2616.865	77.346	#
37)		Toxaphene...	7.999	8.912	58485	45413	38.813	33.292	
38)		Toxaphene...	8.313	8.948	24470	35704	7.867	16.451	#
39)		Toxaphene...	8.543	8.997	32167	395685	5.454	116.212	#
40)		Toxaphene...	8.755	9.168	9097	8266	3.863	1.301	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	0.000	3.829f	0	6016	N.D.	NoCal	

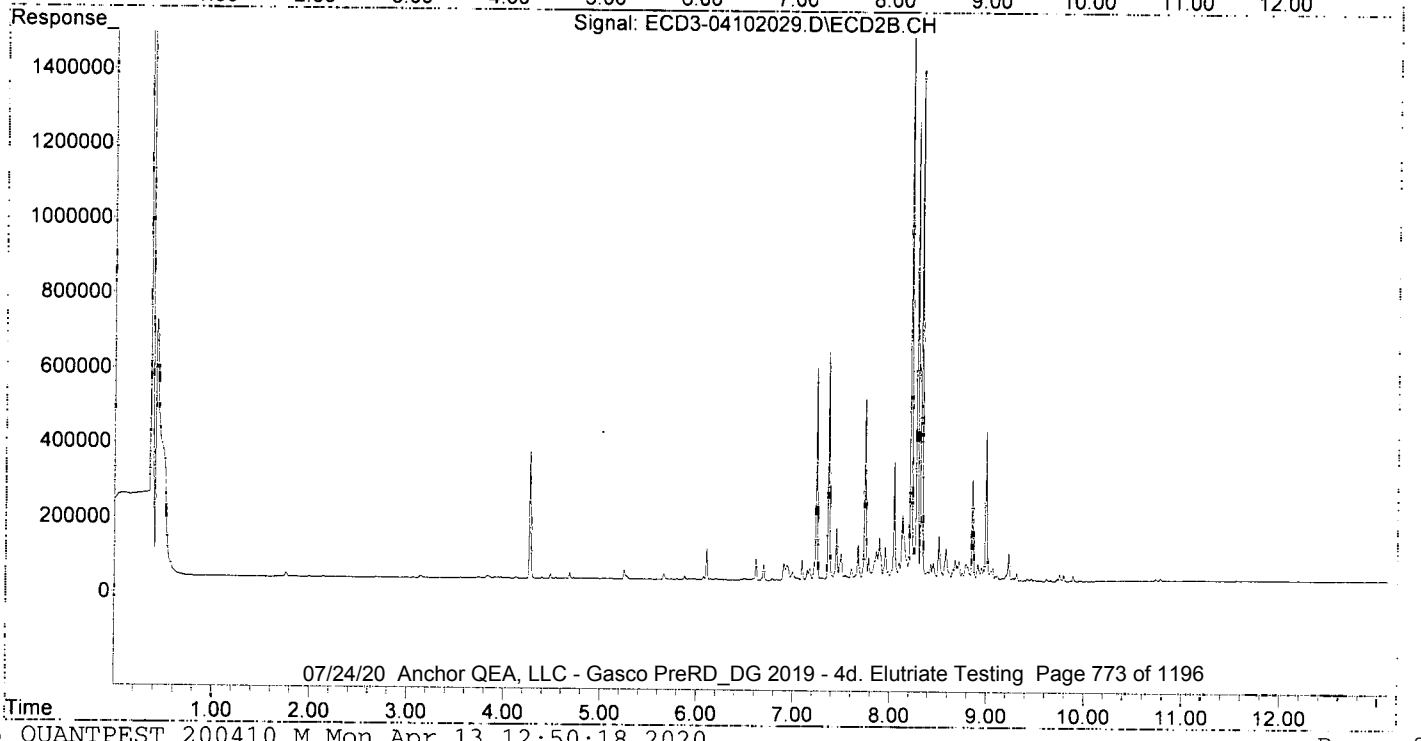
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:43 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

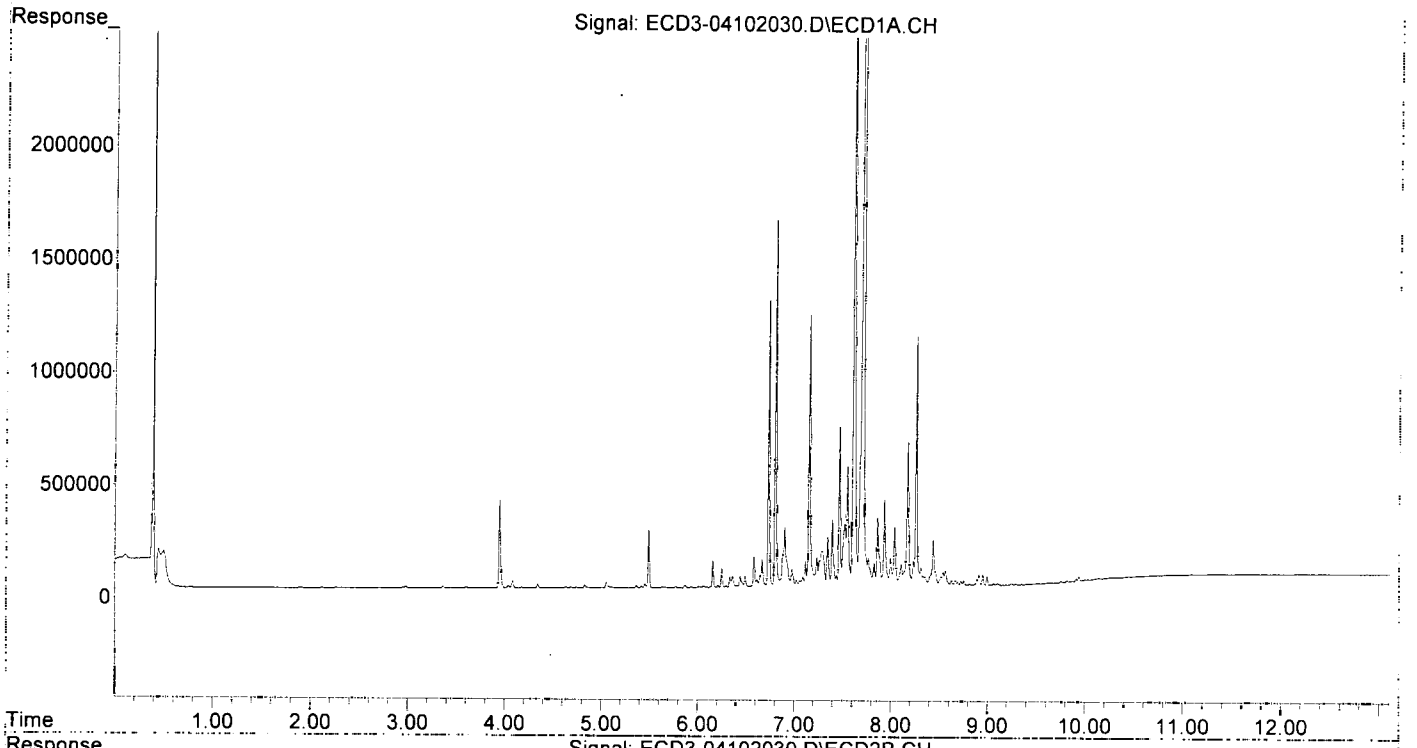
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.077	0	9896	N.D.	1884.027	#
22)	S	DCBP (S)	9.817	0.000	5574	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	0.000	6.698f	0	70259	N.D.	0.448	#
3)		g-BHC	6.363f	6.999	47790	41587	0.277	0.309	
4)		b-BHC	6.494f	7.095f	48193	100079	0.706	1.630	#
5)		Heptachlor	6.806	7.369	1629422	1220796	9.951	10.784	
6)		d-BHC	6.614	0.000	31948	0	0.228	N.D.	#
7)		Aldrin	7.057	7.646	27506	21053	0.164	0.158	
8)		Heptachlo...	7.524	8.099	277895	85302	1.777	0.725	#
9)		trans-Chl...	7.613	8.220	3546473	2904795	22.538	24.086	
10)		cis-Chlor...	7.707	8.328	4127220	2508298	26.293	21.655	
11)		Endosulfa...	7.828	8.397	101793	42007	0.709	0.391	#
12)		4,4'-DDE	7.768	8.425	124078	77661	0.860	0.674	
13)		Dieldrin	7.998	8.582	123888	177172	0.771	1.480	#
14)		Endrin	8.177f	8.808	637879	65729	5.171	0.760	#
15)		4,4'-DDD	8.177f	8.856	637879	502401	5.254	5.324	
16)		Endosulfa...	8.314	8.971	79708	56157	0.658	0.612	
17)		4,4'-DDT	0.000	9.094	0	21615	N.D.	0.466	#
18)		Endrin Al...	8.628f	9.230f	22853	141835	BelowCal	1.525	
19)		Endosulfa...	8.913	9.420f	49154	12954	0.408	0.154	#
20)		Methoxychlor	8.728	9.531f	19063	4579	0.503	0.222	#
21)		Endrin Ke...	9.102	9.794	7213	30320	0.050	0.317	#
23)		Hexachlor...	3.363f	0.000	5994	0	2108.667	N.D.	#
24)		Hexachlor...	5.937	6.505f	3665	7964	BelowCal	2197.555	
25)		Oxychlordane	7.438	8.022	47827	49280	0.170	0.280	#
26)		2,4'-DDE	7.524	8.220	277895	2904795	2.896	37.986	#
27)		trans-Non...	7.707	8.284	4127220	2258951	28.557	20.461	
28)		2,4'-DDD	7.865f	8.582	305299	177172	3.533	2.372	
29)		2,4'-DDT	8.109f	8.808	96524	65729	1.282	1.225	
30)		cis-Nonac...	8.177	8.856	637879	502401	3.956	4.090	
31)		Mirex	8.892f	9.794	29154	30320	7125.589	0.034	#
32)		Chlordane...	7.613	8.220	3546473	2904795	200.928	200.785	
33)		Chlordane...	7.707	8.328	4127220	2508298	199.170	202.914	
34)		Chlordane...	8.265	8.996	1111336	745316	208.870	202.768	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.707f	8.582f	4127220	177172	4958.126	158.192	#
37)		Toxaphene...	7.998	8.912	123888	82901	82.217	60.775	
38)		Toxaphene...	8.314	8.948	79708	64409	25.627	29.677	
39)		Toxaphene...	8.544	8.996	60255	745316	15.491	226.843	#
40)		Toxaphene...	8.755	9.170	20690	14439	8.785	4.714	#
41)		Toxaphene...	8.814f	0.000	6892	0	2.272	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

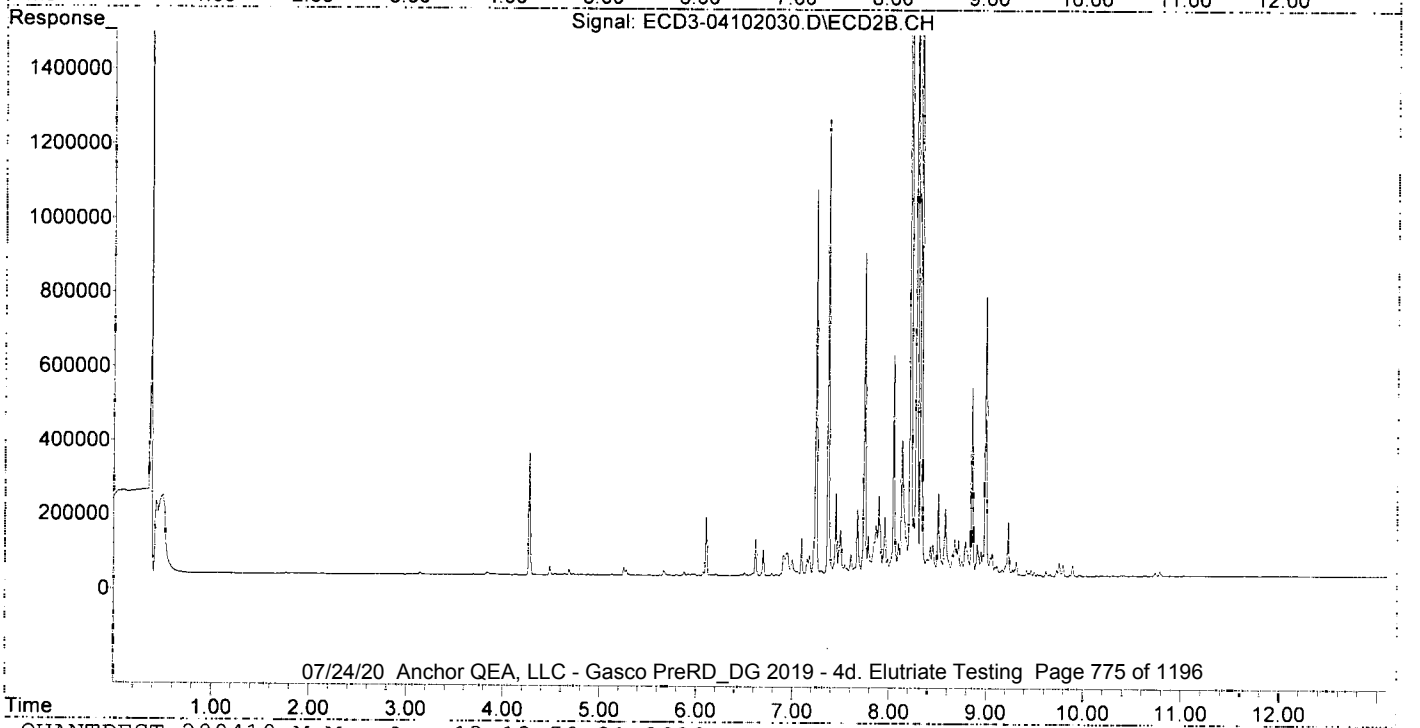
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

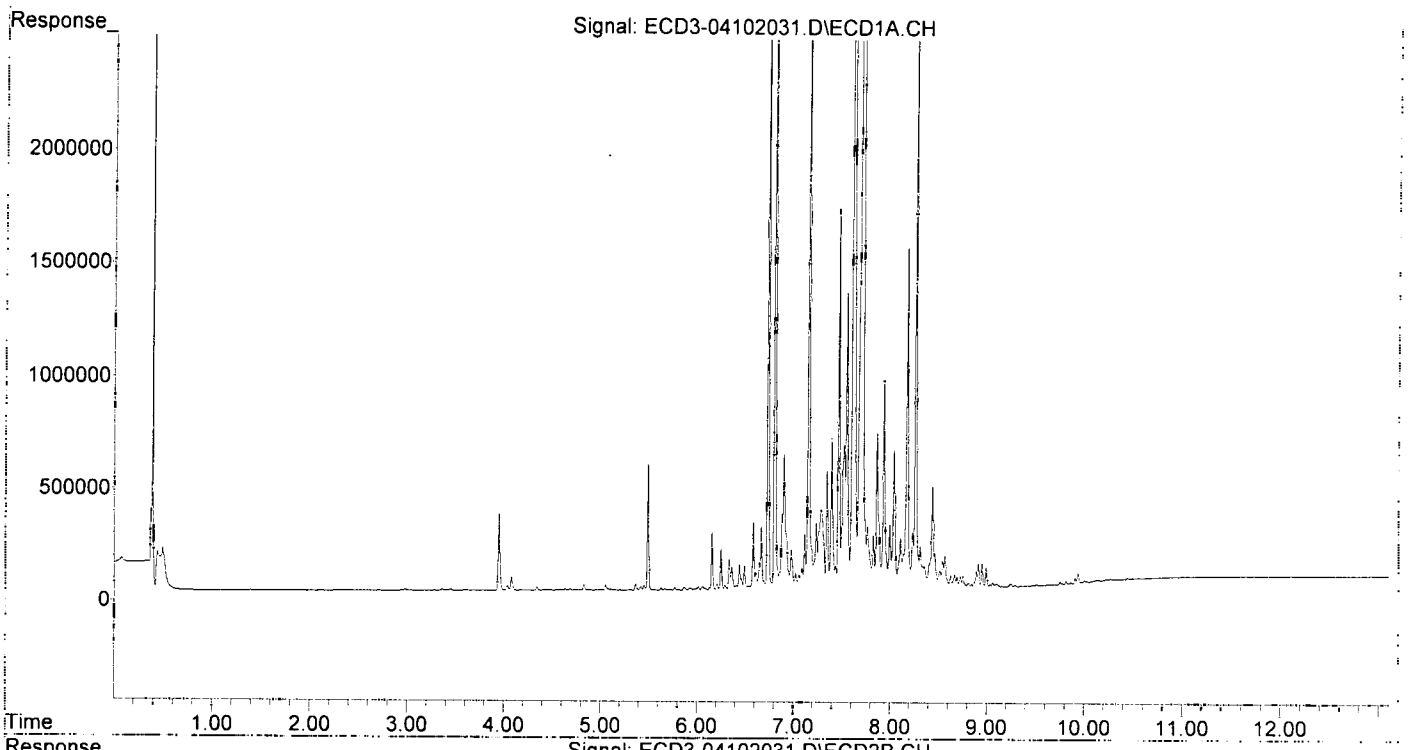
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.076	0	8150	N.D.	1884.042	#
22)	S	DCBP (S)	9.816	0.000	13691	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	6.093	6.698f	6402	148510	0.032	0.946	#
3)		g-BHC	6.409	6.998	18269	85508	0.106	0.635	#
4)		b-BHC	6.494f	7.050	106209	26376	1.557	0.429	#
5)		Heptachlor	6.806	7.369	3888559	2726350	23.747	24.084	
6)		d-BHC	6.611	7.300	77688	29611	0.553	0.242	#
7)		Aldrin	7.057	7.644	64626	48163	0.386	0.362	
8)		Heptachlo...	7.524	8.099	644481	194968	4.121	1.657	#
9)		trans-Chl...	7.613	8.220	8257015	6758715	52.473	56.041	
10)		cis-Chlor...	7.707	8.329	9851749	5655525	62.762	48.827	
11)		Endosulfa...	7.828	8.401	235945	99705	1.644	0.927	#
12)		4,4'-DDE	7.767	8.425	278109	176252	1.928	1.531	
13)		Dieldrin	7.998	8.582	286461	435961	1.782	3.641	#
14)		Endrin	8.177f	8.808	1513903	150237	12.272	1.738	#
15)		4,4'-DDD	8.177f	8.855	1513903	1167000	12.470	12.367	
16)		Endosulfa...	8.314	8.971	184601	133551	1.525	1.456	
17)		4,4'-DDT	0.000	9.094	0	53741	N.D.	1.053	#
18)		Endrin Al...	8.628f	9.230f	52412	316051	0.285	3.697	#
19)		Endosulfa...	8.914	9.421f	103812	35403	0.862	0.421	#
20)		Methoxychlor	8.728	9.530f	47071	16316	1.185	0.677	#
21)		Endrin Ke...	9.100	9.795	15165	62124	0.105	0.649	#
23)		Hexachlor...	3.364f	0.000	4927	0	2108.674	N.D.	#
24)		Hexachlor...	5.934	6.505f	9914	17833	BelowCal	2197.465	
25)		Oxychlordane	7.438	8.021	101551	114487	0.585	0.941	#
26)		2,4'-DDE	7.524	8.220	644481	6758715	6.948	90.985	#
27)		trans-Non...	7.707	8.284	9851749	5141945	68.169	47.522	
28)		2,4'-DDD	7.865f	8.582	699446	435961	8.373	6.269	
29)		2,4'-DDT	8.108f	8.808	223327	150237	2.967	2.801	
30)		cis-Nonac...	8.177	8.855	1513903	1167000	9.670	9.834	
31)		Mirex	8.842	9.795	14024	62124	7125.742	0.503	#
32)		Chlordane...	7.613	8.220	8257015	6758715	467.807	467.174	
33)		Chlordane...	7.707	8.329	9851749	5655525	475.423	457.516	
34)		Chlordane...	8.264	8.997	2640047	1759160	496.183	484.277	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.707f	8.582f	9851749	435961	11835.137	389.257	#
37)		Toxaphene...	7.998	8.912	286461	189705	190.108	139.073	
38)		Toxaphene...	8.314	8.948	184601	149529	59.350	68.896	
39)		Toxaphene...	8.544	8.997	116418	1759160	35.529	542.793	#
40)		Toxaphene...	8.754	9.169	50513	39092	21.448	18.337	
41)		Toxaphene...	8.842	0.000	14024	0	4.623	N.D.	#
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

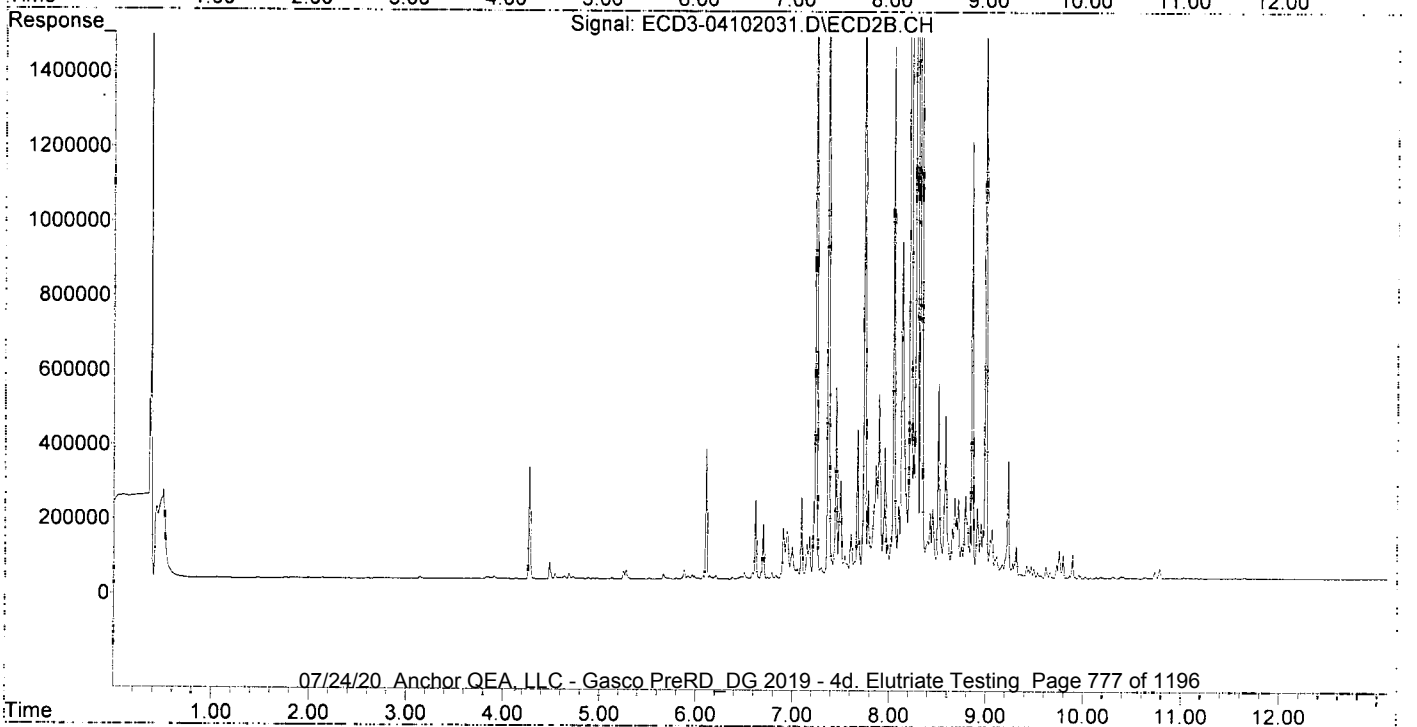
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

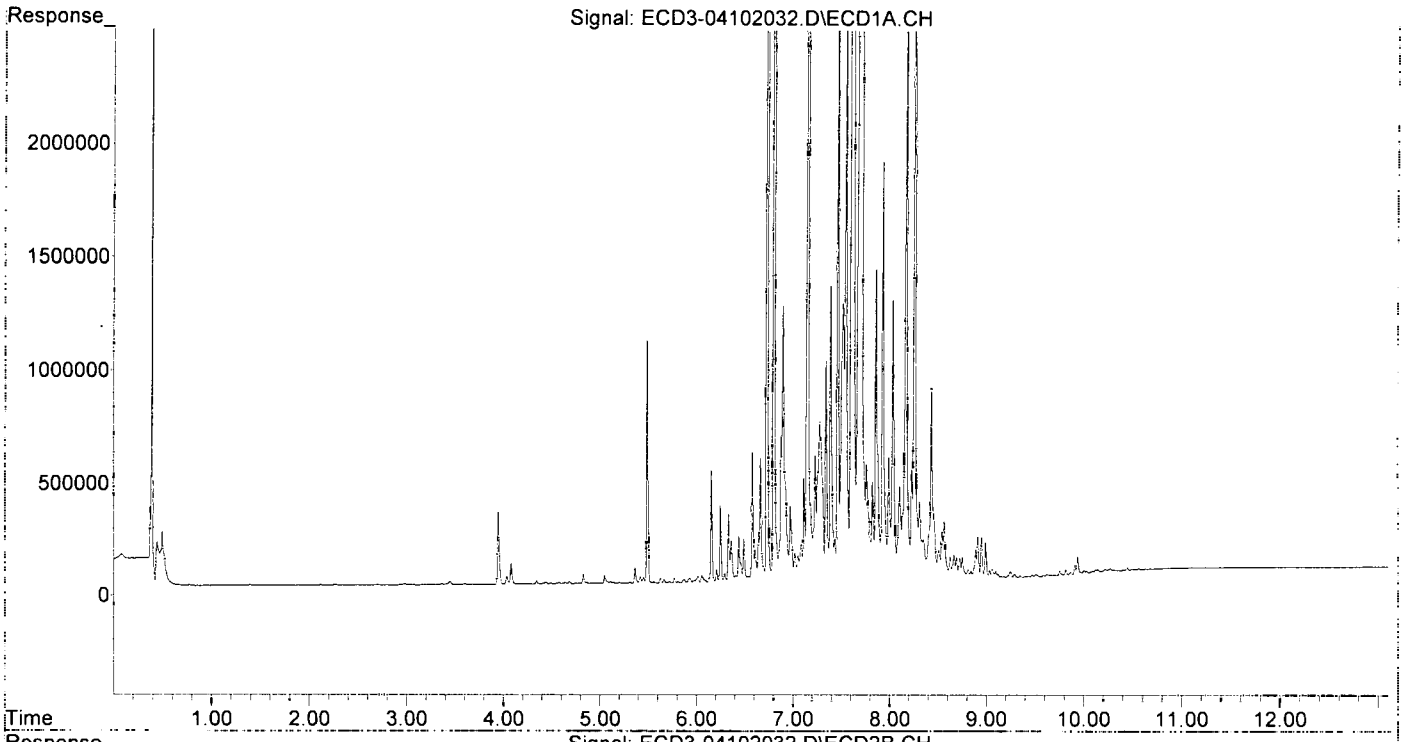
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.073	0	8703	N.D.	1884.037	#
22)	S	DCBP (S)	9.816	10.643f	25757	6157	0.009	2279.998	#
		Target Compounds							
2)		a-BHC	6.132f	6.697f	21467	277726	0.106	1.769	#
3)		g-BHC	6.407	6.998	29213	141834	0.169	1.053	#
4)		b-BHC	6.460	7.049	84418	41422	1.237	0.674	#
5)		Heptachlor	6.805	7.368	7353675	5125193	44.908	45.275	
6)		d-BHC	6.610	7.300	144233	50810	1.028	0.416	#
7)		Aldrin	7.055	7.641	115079	85543	0.686	0.644	
8)		Heptachlo...	7.523	8.098	1240255	360807	7.931	3.066	#
9)		trans-Chl...	7.612	8.219	16297810	12939873	103.571	107.293	
10)		cis-Chlor...	7.706	8.327	18923452	11101616	120.555	95.846	
11)		Endosulfa...	7.827	8.400	435189	190925	3.032	1.775	#
12)		4,4'-DDE	7.766	8.424	512152	332417	3.550	2.887	
13)		Dieldrin	7.997	8.581	542741	883912	3.377	7.382	#
14)		Endrin	8.176f	8.826	2925614	169205	23.715	1.957	#
15)		4,4'-DDD	8.176f	8.855	2925614	2281389	24.098	24.176	
16)		Endosulfa...	8.312	8.970	343399	242701	2.837	2.646	
17)		4,4'-DDT	0.000	9.093	0	96751	N.D.	1.836	#
18)		Endrin Al...	8.627f	9.229f	96998	585445	0.719	7.062	#
19)		Endosulfa...	8.913	9.419f	185706	64076	1.542	0.761	#
20)		Methoxychlor	8.727	9.567	89078	18533	2.204	0.763	#
21)		Endrin Ke...	9.098	9.794	28587	110989	0.198	1.160	#
23)		Hexachlor...	3.363f	0.000	5170	0	2108.672	N.D.	#
24)		Hexachlor...	5.932	6.505f	19371	32130	BelowCal	0.051	
25)		Oxychlordane	7.436	8.020	183853	205637	1.221	1.865	#
26)		2,4'-DDE	7.523	8.219	1240255	12939873	13.512	182.555	#
27)		trans-Non...	7.706	8.283	18923452	10128565	130.281	96.292	
28)		2,4'-DDD	7.864f	8.581	1385489	883912	16.787	13.037	
29)		2,4'-DDT	8.107f	8.826	410687	169205	5.456	3.154	#
30)		cis-Nonac...	8.176	8.855	2925614	2281389	18.855	19.525	
31)		Mirex	8.842	9.794	30587	110989	7125.575	1.225	#
32)		Chlordane...	7.612	8.219	16297810	12939873	923.364	894.427	
33)		Chlordane...	7.706	8.327	18923452	11101616	913.204	898.089	
34)		Chlordane...	8.264	8.996	4918547	3349788	924.415	925.439	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.706f	8.581f	18923452	883912	22733.186	789.221	#
37)		Toxaphene...	7.997	8.911	542741	359298	360.186	263.402	
38)		Toxaphene...	8.312	8.948	343399	290842	110.405	134.007	
39)		Toxaphene...	8.544	8.996	209053	3349788	68.490	1024.841	#
40)		Toxaphene...	8.754	9.168	93472	71816	39.689	36.405	
41)		Toxaphene...	8.842	9.567	30587	18533	10.083	9.156	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

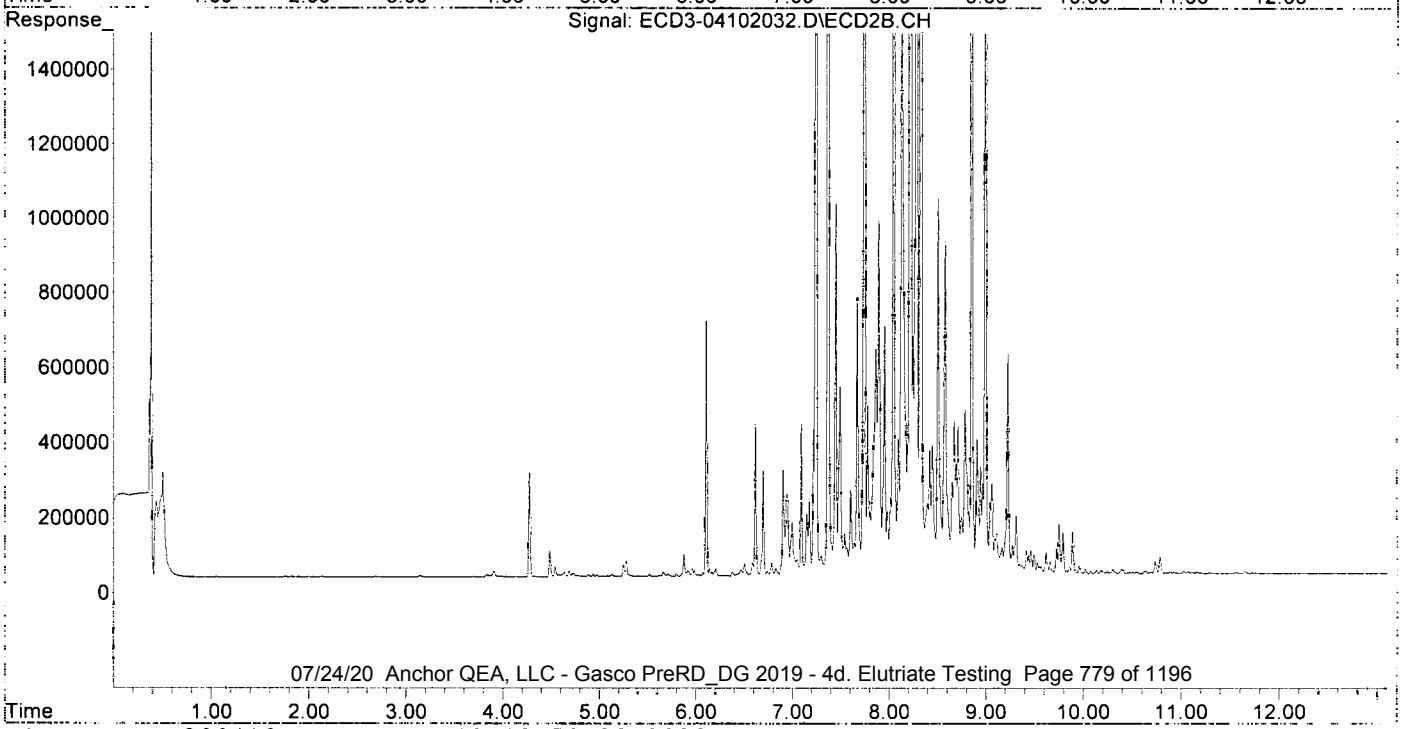
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:14 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 4/13/20

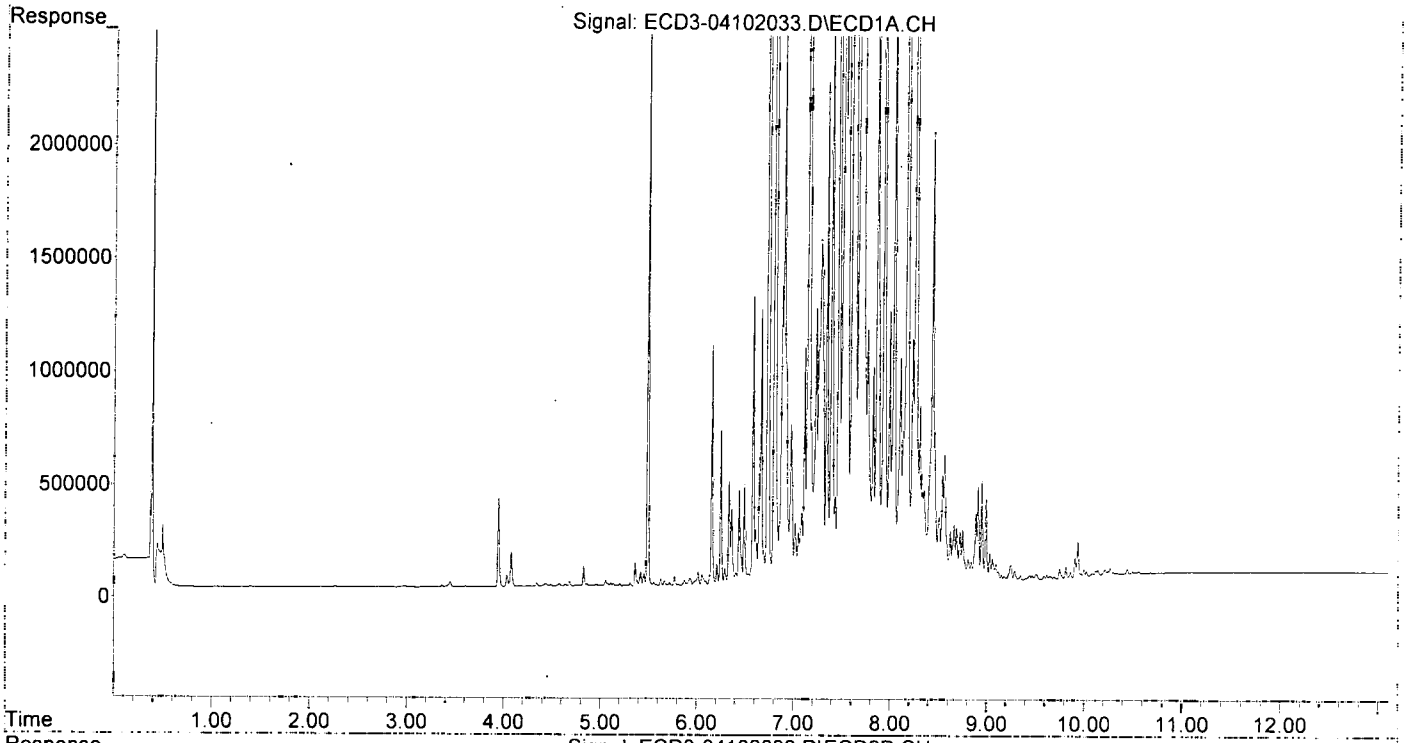
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.558	6.073	15357	6952	0.104	1884.053	#
22)	S	DCBP (S)	9.817	10.688	51160	7633	0.241	2279.976	#
		Target Compounds							
2)		a-BHC	6.093	6.698f	18589	567373	0.092	3.614	#
3)		g-BHC	6.408	6.999	53069	290612	0.307	2.157	#
4)		b-BHC	6.494f	7.048	441812	80370	6.476	1.309	#
5)		Heptachlor	6.805	7.369	16832589	11419369	102.796	100.876	
6)		d-BHC	6.611	7.300	242817	97644	1.730	0.799	#
7)		Aldrin	7.055	7.642	226866	166251	1.353	1.251	
8)		Heptachlo...	7.523	8.097	2758261	785022	17.638	6.670	#
9)		trans-Chl...	7.612	8.219	36805140	27125757	233.894	224.918	
10)		cis-Chlor...	7.707	8.328	42306718	22830370	269.521	197.107	
11)		Endosulfa...	7.826	8.400	960089	445351	6.690	4.141	
12)		4,4'-DDE	7.766	8.450	1122250	768933	7.780	6.678	
13)		Dieldrin	7.996	8.581	1202865	2268447	7.485	18.944	#
14)		Endrin	8.138	8.827	670516	368311	5.435	4.260	
15)		4,4'-DDD	8.176f	8.854	6411456	4802354	52.811	50.891	
16)		Endosulfa...	8.313	8.971	782923	557160	6.468	6.075	
17)		4,4'-DDT	0.000	9.093	0	214671	N.D.	3.970	#
18)		Endrin Al...	8.627f	9.229f	222022	1355626	1.935	16.717	#
19)		Endosulfa...	8.913	9.371f	417844	58349	3.469	0.693	#
20)		Methoxychlor	8.727	9.567	217988	46357	5.303	1.837	#
21)		Endrin Ke...	9.098	9.794	73080	248821	0.507	2.601	#
23)		Hexachlor...	3.364f	0.000	6416	0	2108.665	N.D.	#
24)		Hexachlor...	5.933	6.505f	32038	62156	0.038	0.327	#
25)		Oxychlordane	7.435	8.020	384206	442855	2.769	4.274	#
26)		2,4'-DDE	7.523	8.219	2758261	27125757	30.119	441.078	#
27)		trans-Non...	7.707	8.283	42306718	20983838	286.829	213.154	
28)		2,4'-DDD	7.863f	8.581	3068821	2268447	37.381	34.143	
29)		2,4'-DDT	8.107f	8.827	996158	368311	13.233	6.866	#
30)		cis-Nonac...	8.176	8.854	6411456	4802354	41.415	41.727	
31)		Mirex	8.843	9.794	83494	248821	0.473	3.263	#
32)		Chlordane...	7.612	8.219	36805140	27125757	2085.221	1874.981	
33)		Chlordane...	7.707	8.328	42306718	22830370	2041.628	1846.912	
34)		Chlordane...	8.263	8.996	11270916	7528954	2118.309	2081.650	
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.707f	8.581f	42306718	2268447	50824.051	2025.433	#
37)		Toxaphene...	7.996	8.911	1202865	812967	798.272	595.989	
38)		Toxaphene...	8.313	8.947	782923	684314	251.714	315.302	
39)		Toxaphene...	8.544	8.996	471366	7528954	161.225	2222.006	#
40)		Toxaphene...	8.754	9.168	227003	163151	96.387	86.745	
41)		Toxaphene...	8.843	9.567	83494	46357	27.524	22.904	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

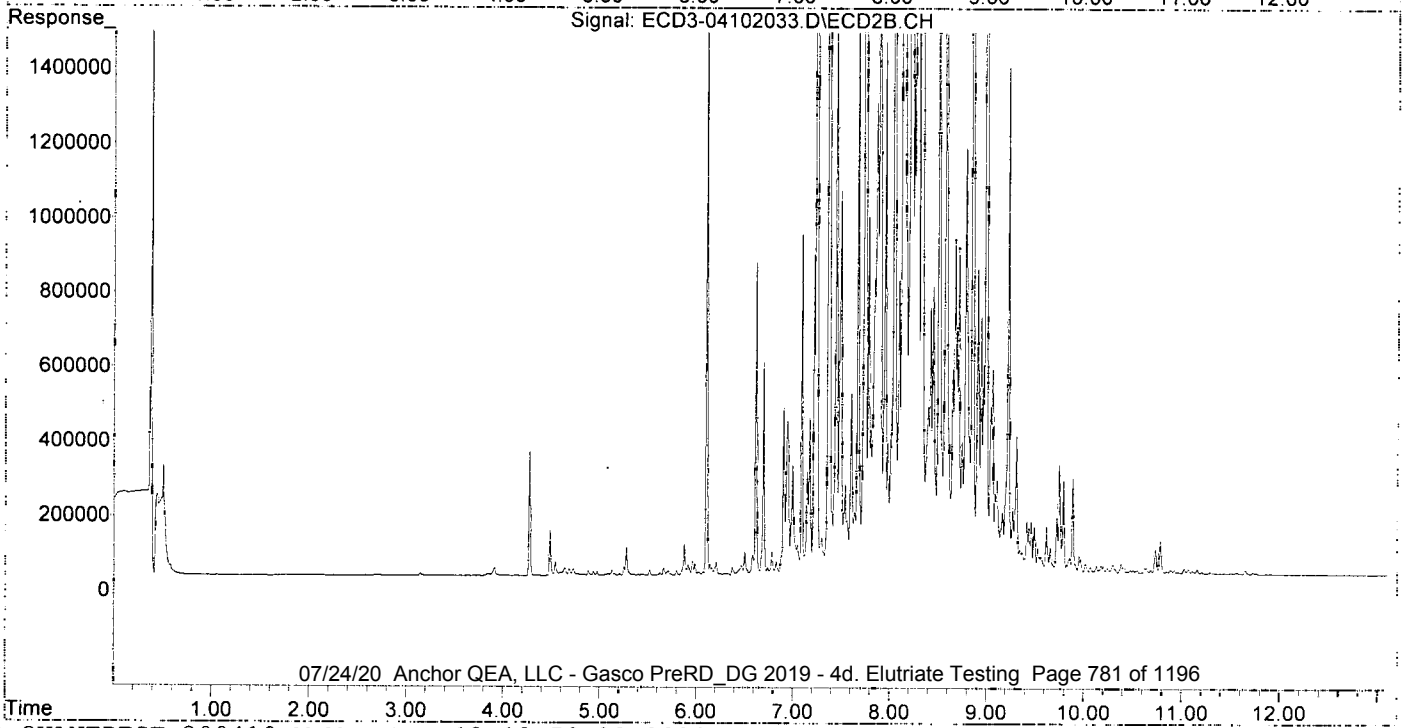
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:46:39 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

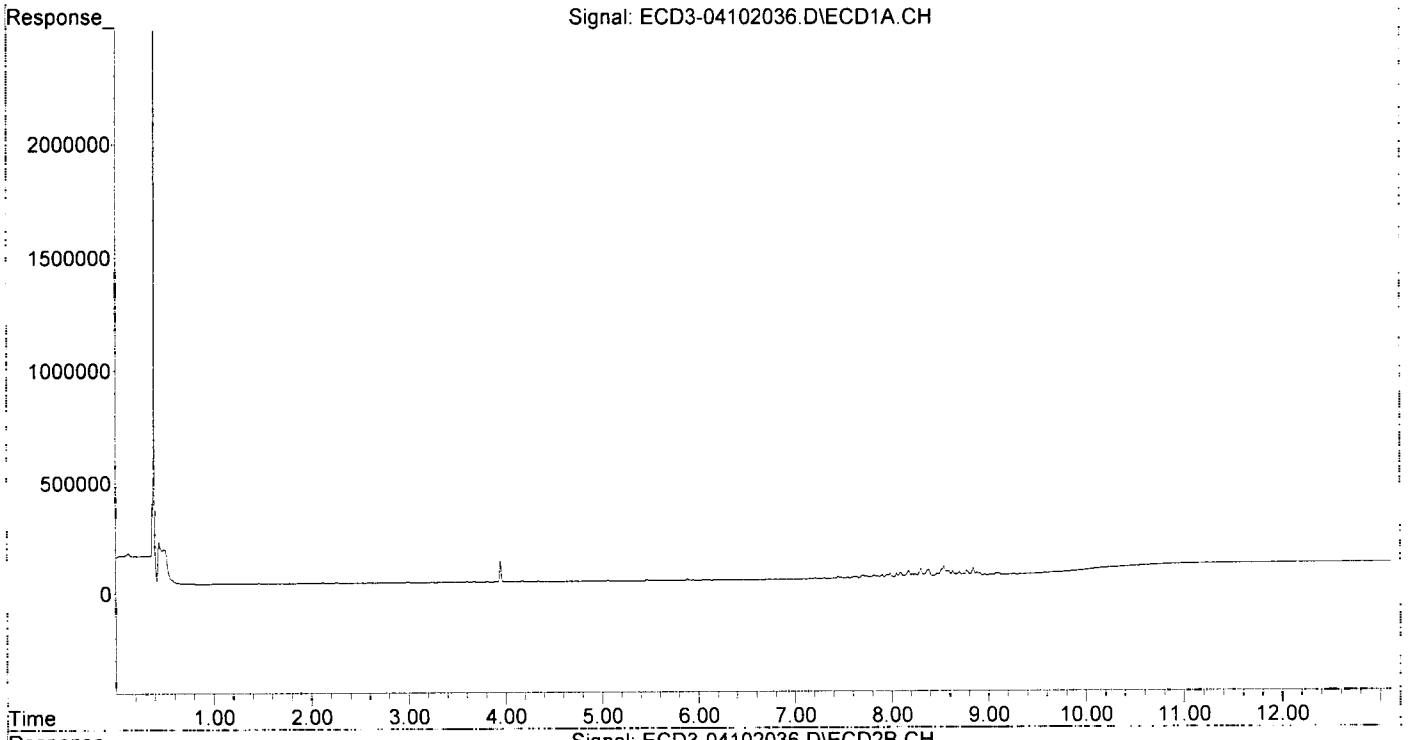
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.085f	0	4820	N.D.	1884.072	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.616	8.218	6656	6734	0.042	0.056	
10)		cis-Chlor...	7.702	8.326	9912	5399	0.063	0.047	
11)		Endosulfa...	7.818	8.385	5813	4742	0.041	0.044	
12)		4,4'-DDE	7.739f	8.452	6858	5061	0.048	0.044	
13)		Dieldrin	7.986	8.558f	15559	11439	0.097	0.096	
14)		Endrin	8.176f	8.805	25080	10917	0.203	0.126	
15)		4,4'-DDD	8.215	8.854	11080	12038	0.091	0.128	
16)		Endosulfa...	8.302	8.944	32449	26120	0.268	0.285	
17)		4,4'-DDT	8.376f	9.074	27476	10264	0.413	0.259	
18)		Endrin Al...	8.591	9.190	22554	23927	BelowCal	0.057	
19)		Endosulfa...	8.912	9.392	10557	8987	0.088	0.107	
20)		Methoxychlor	8.701f	9.574	16911	24338	0.451	0.987	#
21)		Endrin Ke...	9.103	9.790	7883	5669	0.055	0.059	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	7.446	0.000	8494	0	BelowCal	N.D.	
26)		2,4'-DDE	0.000	8.218	0	6734	N.D.	2144.896	#
27)		trans-Non...	7.702	8.267	9912	9783	BelowCal	1953.475	
28)		2,4'-DDD	7.902	8.558f	8966	11439	BelowCal	3167.715	
29)		2,4'-DDT	8.089	8.805	16924	10917	0.225	0.204	
30)		cis-Nonac...	8.176	8.854	25080	12038	BelowCal	2549.456	
31)		Mirex	8.844	9.790	34168	5669	7125.539	3567.445	#
32)		Chlordane...	7.616	8.218	6656	6734	0.377	0.465	
33)		Chlordane...	7.702	8.326	9912	5399	0.478	0.437	
34)		Chlordane...	8.243f	9.011	10181	62570	1.913	13.054	#
35)		Chlordane...	0.000	3.828f	0	4384	N.D.	NoCal	
36)		Toxaphene...	7.702	8.558	9912	11439	11.908	10.213	
37)		Toxaphene...	7.986	8.909	15559	14963	10.326	10.969	
38)		Toxaphene...	8.302	8.944	32449	26120	10.432	12.035	
39)		Toxaphene...	8.543	9.011	44818	62570	9.976	9.976	/
40)		Toxaphene...	8.775	9.190	23487	23927	9.973	9.958	
41)		Toxaphene...	8.844	9.574	34168	24338	11.264	12.025	
42)		Toxaphene...	0.000	3.828f	0	4384	N.D.	NoCal	

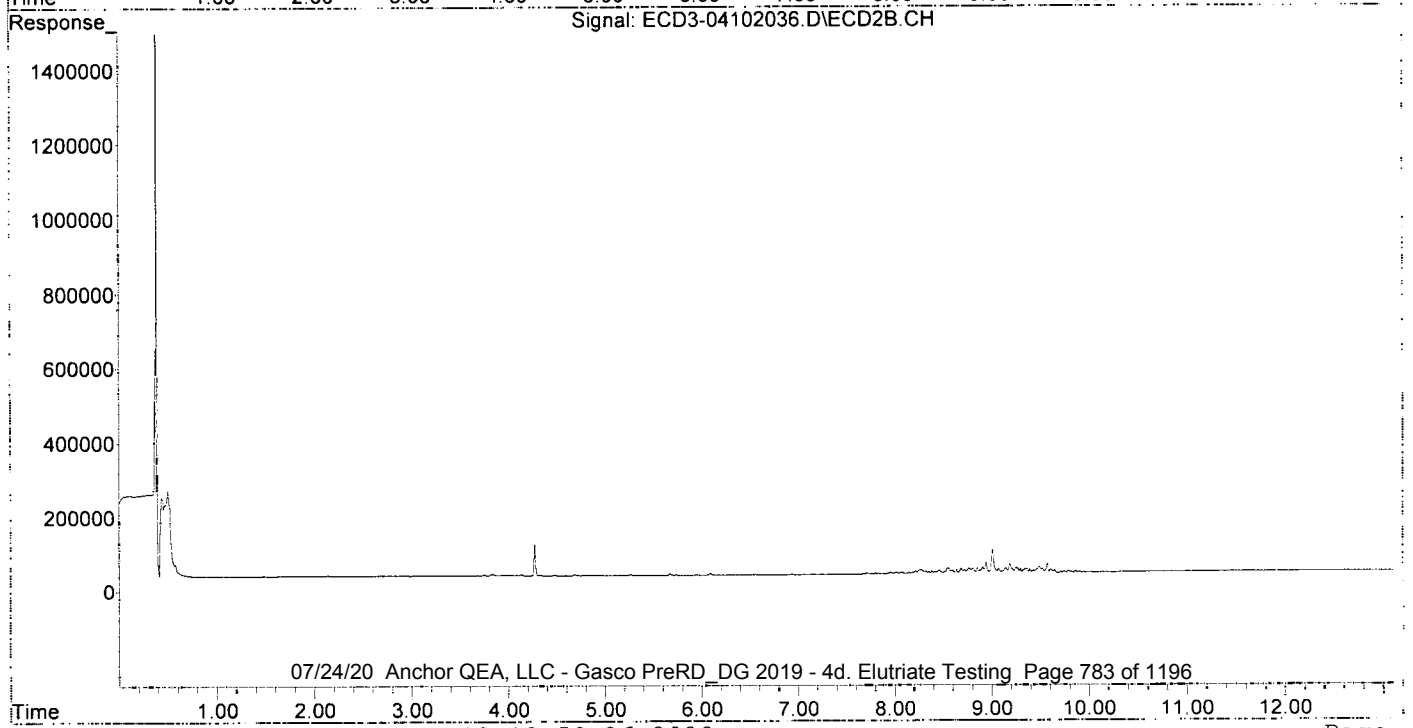
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:12 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

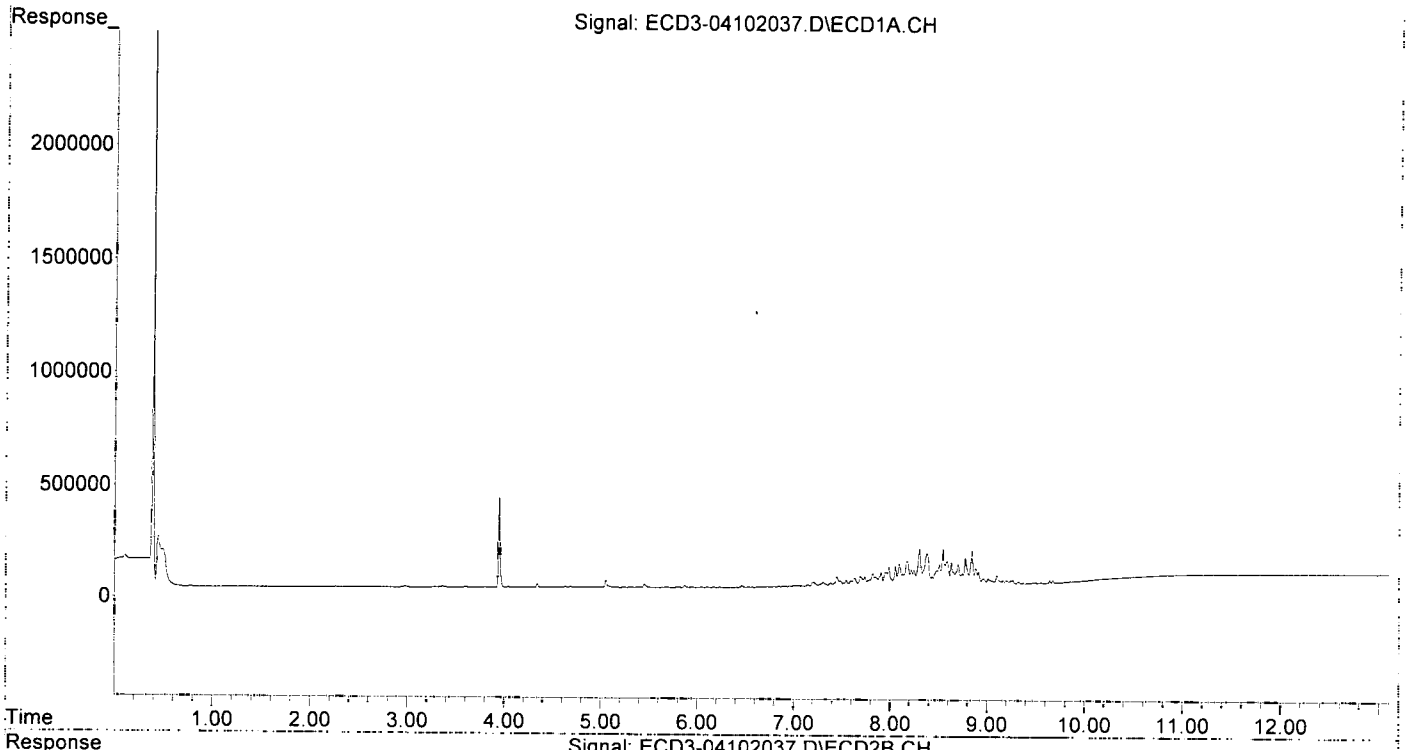
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.076	0	8517	N.D.	1884.039	#
22)	S	DCBP (S)	9.804	0.000	2370	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.462	0.000	7686	0	0.113	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	7.050	7.664f	3561	5219	0.021	0.039	#
8)		Heptachlo...	7.520	8.071	14094	19397	0.090	0.165	#
9)		trans-Chl...	7.632	8.200f	32426	22349	0.206	0.185	
10)		cis-Chlor...	7.689f	8.310f	41998	23380	0.268	0.202	
11)		Endosulfa...	7.818	8.385	53919	29350	0.376	0.273	
12)		4,4'-DDE	7.738f	8.451	39448	34001	0.273	0.295	
13)		Dieldrin	7.985	8.599	82518	35082	0.513	0.293	#
14)		Endrin	8.175f	8.805	106225	57193	0.861	0.662	
15)		4,4'-DDD	8.216	8.856	69015	42229	0.568	0.448	
16)		Endosulfa...	8.302	8.944	158918	114478	1.313	1.248	
17)		4,4'-DDT	8.377f	9.075	138308	43087	1.699	0.859	#
18)		Endrin Al...	8.591	9.190	104622	99407	0.793	0.996	
19)		Endosulfa...	8.913	9.392	53898	39894	0.447	0.474	
20)		Methoxychlor	8.744	9.574	49533	103198	1.245	4.016	#
21)		Endrin Ke...	9.100	9.795	38040	10712	0.264	0.112	#
23)		Hexachlor...	3.361f	0.000	6025	0	2108.667	N.D.	#
24)		Hexachlor...	0.000	6.528	0	2994	N.D.	2197.601	#
25)		Oxychlordane	7.446	8.022	40738	19660	0.115	3277.538	#
26)		2,4'-DDE	7.520	8.200	14094	22349	BelowCal	0.058	
27)		trans-Non...	7.689	8.293	41998	22978	0.085	1953.355	#
28)		2,4'-DDD	7.904	8.599	58319	35082	0.499	0.236	#
29)		2,4'-DDT	8.091	8.805	94112	57193	1.250	1.066	
30)		cis-Nonac...	8.175	8.856	106225	42229	0.483	0.128	#
31)		Mirex	8.844	9.795	150990	10712	1.155	3567.371	#
32)		Chlordane...	7.595	8.200f	22478	22349	1.274	1.545	
33)		Chlordane...	7.689	8.310	41998	23380	2.027	1.891	
34)		Chlordane...	8.244f	9.012	65810	190413	12.369	48.586	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.689	8.558	41998	61319	50.453	54.750	
37)		Toxaphene...	7.985	8.909	82518	72536	54.763	53.177	
38)		Toxaphene...	8.302	8.944	158918	114478	51.093	52.746	
39)		Toxaphene...	8.544	9.012	158276	190413	50.437	50.844	
40)		Toxaphene...	8.775	9.190	119137	99407	50.586	51.626	
41)		Toxaphene...	8.844	9.574	150990	103198	49.775	50.987	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

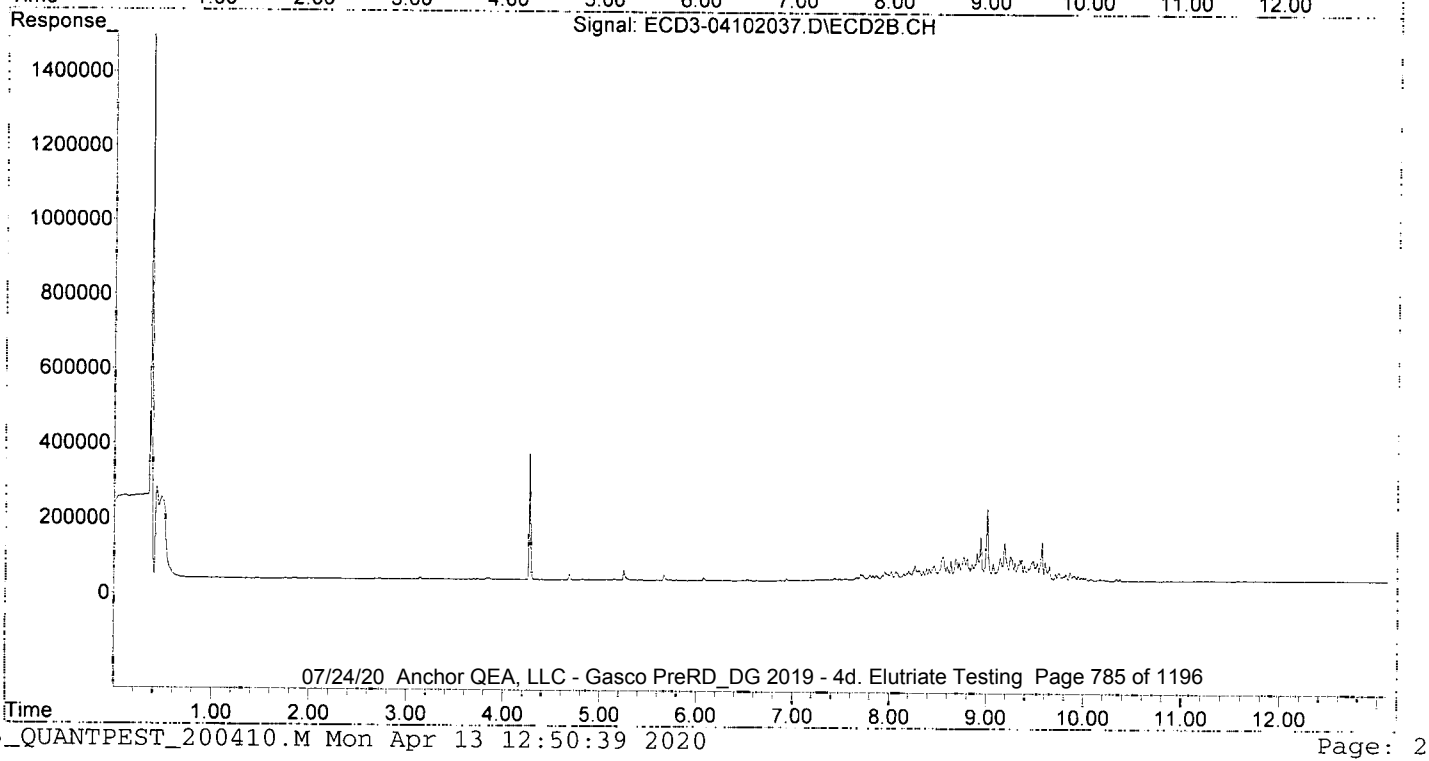
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

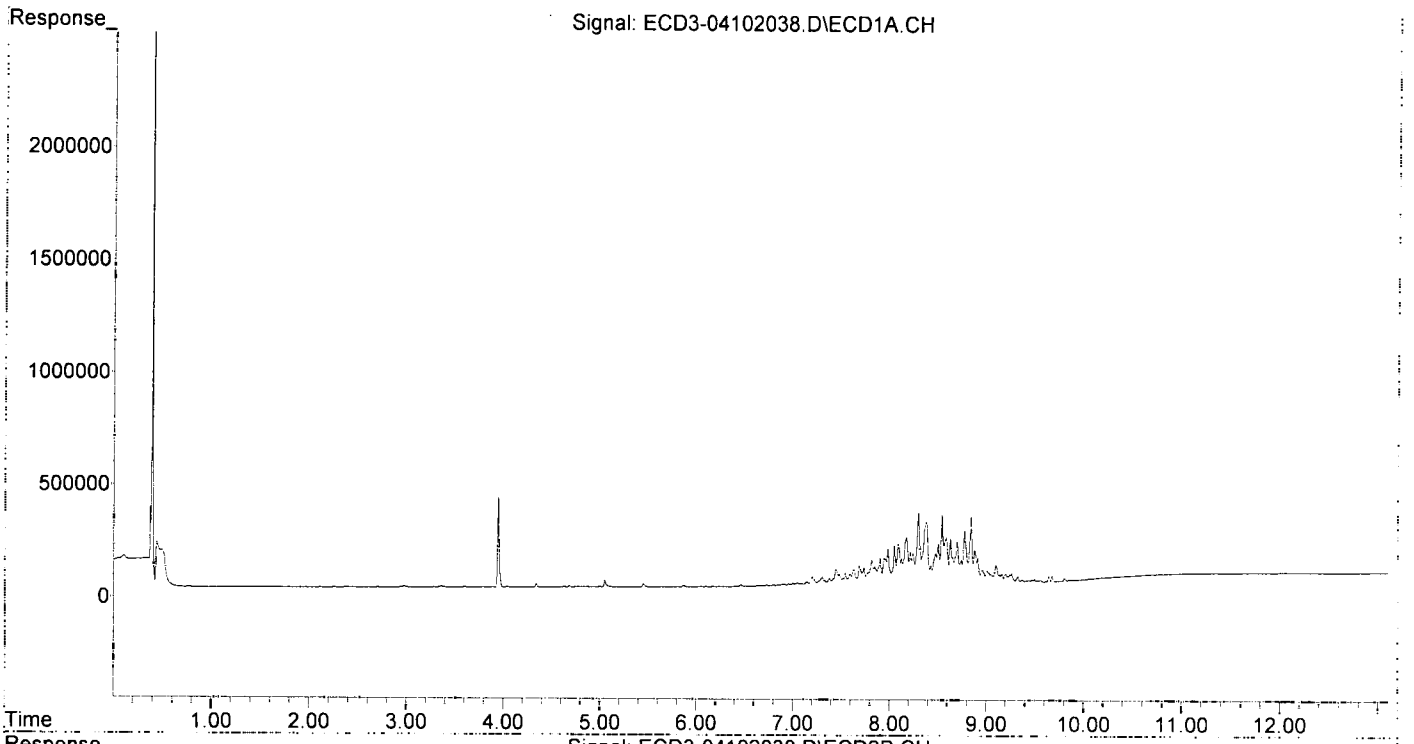
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.076	0	7811	N.D.	1884.045	#
22)	S	DCBP (S)	9.804	10.674	12778	6858	BelowCal	2279.988	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.460	0.000	8467	0	0.124	N.D.	#
5)		Heptachlor	0.000	7.336f	0	3365	N.D.	0.030	#
6)		d-BHC	0.000	7.336f	0	3365	N.D.	0.028	#
7)		Aldrin	7.049	7.664f	10668	9317	0.064	0.070	
8)		Heptachlo...	7.520	8.071	28937	40275	0.185	0.342	#
9)		trans-Chl...	7.631	8.200f	66979	44922	0.426	0.372	
10)		cis-Chlor...	7.737f	8.353f	74790	44769	0.476	0.387	
11)		Endosulfa...	7.817	8.385	106829	58057	0.744	0.540	
12)		4,4'-DDE	7.737f	8.450	74790	67486	0.518	0.586	
13)		Dieldrin	7.985	8.598	156502	68413	0.974	0.571	#
14)		Endrin	8.177f	8.805	202670	107718	1.643	1.246	
15)		4,4'-DDD	8.214	8.857	140399	79052	1.156	0.838	
16)		Endosulfa...	8.301	8.944	311689	211094	2.575	2.302	
17)		4,4'-DDT	8.378f	9.075	269209	82688	3.208	1.580	#
18)		Endrin Al...	8.591	9.190	203270	185979	1.753	2.075	
19)		Endosulfa...	8.913	9.392	109063	77639	0.905	0.922	
20)		Methoxychlor	8.742	9.574	101222	194265	2.497	7.463	#
21)		Endrin Ke...	9.100	9.799	77089	20884	0.535	0.218	#
23)		Hexachlor...	3.361	0.000	5867	0	2108.668	N.D.	#
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	7.446	8.022	70048	39105	0.342	0.177	#
26)		2,4'-DDE	7.520	8.200	28937	44922	0.138	0.350	#
27)		trans-Non...	7.688	8.294	83308	45578	0.374	0.193	#
28)		2,4'-DDD	7.903	8.598	114457	68413	1.189	0.737	
29)		2,4'-DDT	8.091	8.827	176070	62527	2.339	1.166	#
30)		cis-Nonac...	8.177	8.857	202670	79052	1.113	0.445	#
31)		Mirex	8.844	9.799	291120	20884	2.572	3567.221	#
32)		Chlordane...	7.631	8.200f	66979	44922	3.795	3.105	
33)		Chlordane...	7.688	8.309f	83308	44208	4.020	3.576	
34)		Chlordane...	8.242f	9.011	134758	346003	25.327	91.825	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.688	8.558	83308	116776	100.080	104.266	
37)		Toxaphene...	7.985	8.908	156502	135442	103.861	99.293	
38)		Toxaphene...	8.301	8.944	311689	211094	100.210	97.263	
39)		Toxaphene...	8.543	9.011	303785	346003	102.082	100.419	
40)		Toxaphene...	8.775	9.190	229620	185979	97.498	99.306	
41)		Toxaphene...	8.844	9.574	291120	194265	95.970	95.981	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

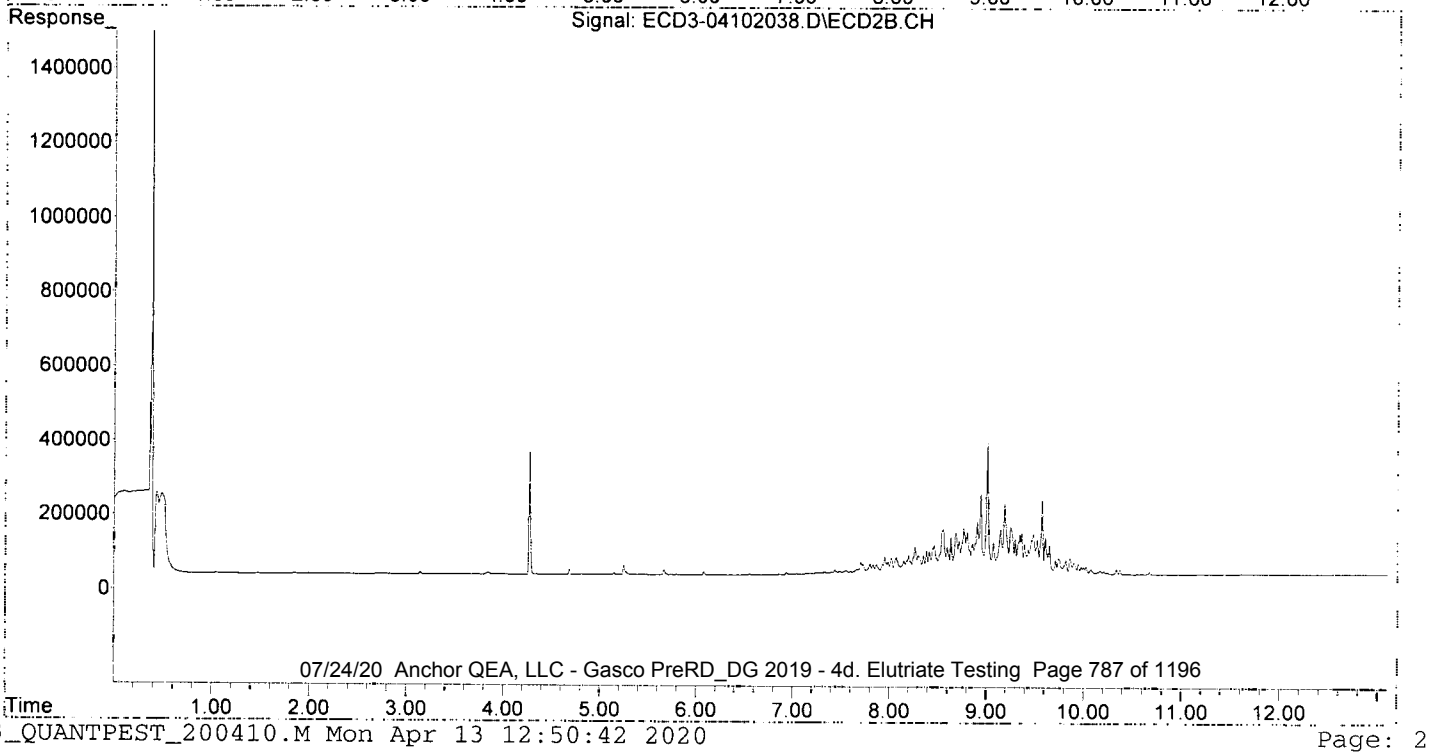
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:38 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

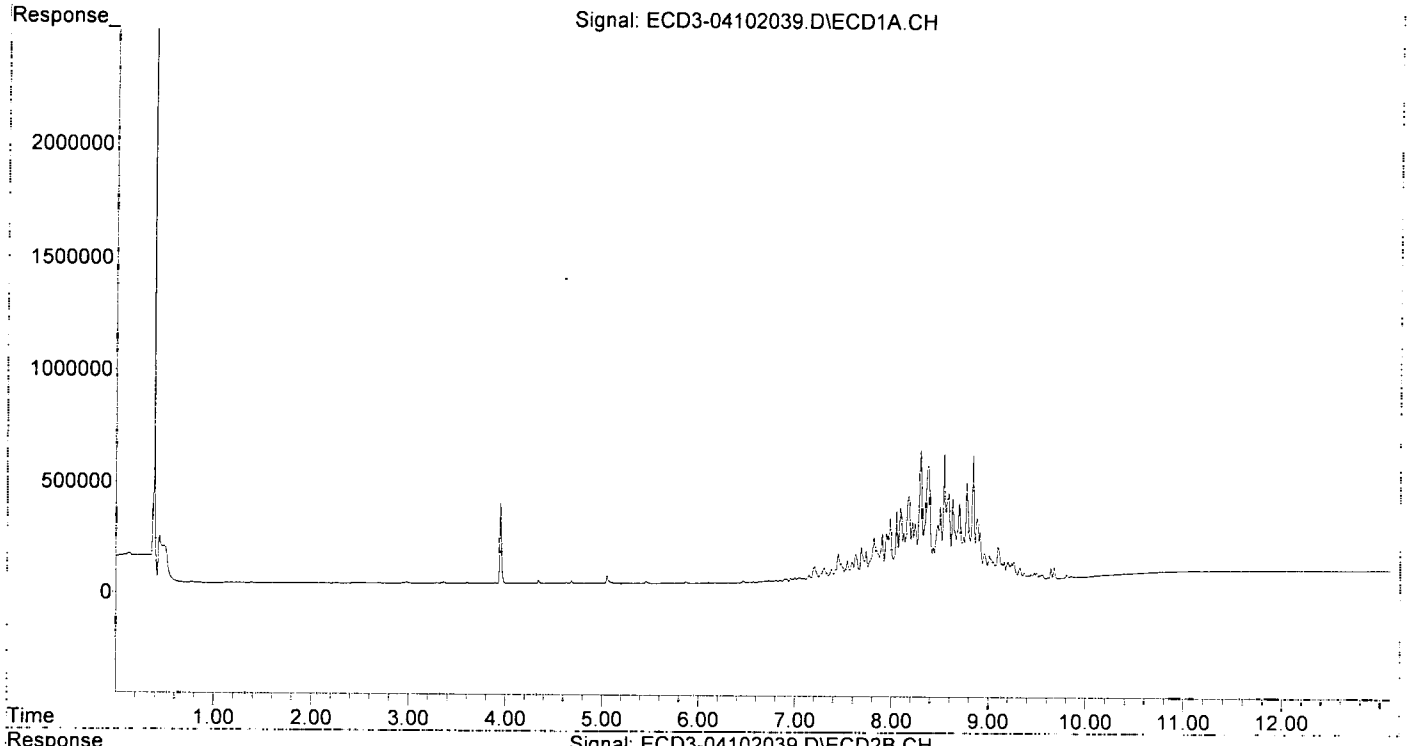
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.075	0	6588	N.D.	1884.056	#
22)	S	DCBP (S)	9.802	10.673	14045	4933	BelowCal	2280.016	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.979	0	2973	N.D.	0.022	#
4)		b-BHC	6.460	7.040	8840	3795	0.130	0.062	#
5)		Heptachlor	6.800	7.335f	9453	5603	0.058	0.049	
6)		d-BHC	6.639	7.311	5984	3450	0.043	0.028	
7)		Aldrin	7.048	7.664f	21720	16625	0.130	0.125	
8)		Heptachlo...	7.519	8.071	58097	70899	0.372	0.602	#
9)		trans-Chl...	7.630	8.198f	122598	80345	0.779	0.666	
10)		cis-Chlor...	7.737f	8.351	136784	82678	0.871	0.714	
11)		Endosulfa...	7.816	8.383	194470	105748	1.355	0.983	
12)		4,4'-DDE	7.737f	8.448	136784	120878	0.948	1.050	
13)		Dieldrin	7.984	8.597	286085	123447	1.780	1.031	#
14)		Endrin	8.175f	8.804	380413	201482	3.084	2.331	
15)		4,4'-DDD	8.214	8.856	263921	144411	2.174	1.530	
16)		Endosulfa...	8.299	8.943	586224	394858	4.843	4.305	
17)		4,4'-DDT	8.374f	9.074	516218	153102	6.026	2.858	#
18)		Endrin Al...	8.590	9.189	392241	355753	3.592	4.193	
19)		Endosulfa...	8.912	9.391	215845	145823	1.792	1.732	
20)		Methoxychlor	8.743	9.573	194631	370159	4.744	13.980	#
21)		Endrin Ke...	9.098	9.817f	145893	71610	1.013	0.748	
23)		Hexachlor...	3.361	0.000	5663	0	2108.669	N.D.	#
24)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
25)		Oxychlordane	7.446	8.021	126030	68620	0.774	0.476	
26)		2,4'-DDE	7.519	8.198	58097	80345	0.461	0.808	#
27)		trans-Non...	7.686	8.292	153469	80194	0.864	0.507	#
28)		2,4'-DDD	7.902	8.597	214113	123447	2.413	1.564	
29)		2,4'-DDT	8.089	8.826	326682	118494	4.340	2.209	#
30)		cis-Nonac...	8.175	8.856	380413	144411	2.274	1.007	#
31)		Mirex	8.842	9.817f	559171	71610	5.283	0.643	#
32)		Chlordane...	7.630	8.198f	122598	80345	6.946	5.554	
33)		Chlordane...	7.686f	8.308f	153469	78523	7.406	6.352	
34)		Chlordane...	8.241f	9.011	258495	639556	48.583	173.388	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.686	8.557	153469	208550	184.366	186.209	
37)		Toxaphene...	7.984	8.907	286085	248644	189.858	182.282	
38)		Toxaphene...	8.299	8.943	586224	394858	188.474	181.933	
39)		Toxaphene...	8.542	9.011	565257	639556	194.206	193.471	
40)		Toxaphene...	8.774	9.189	439278	355753	186.520	192.467	
41)		Toxaphene...	8.842	9.573	559171	370159	184.336	182.886	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

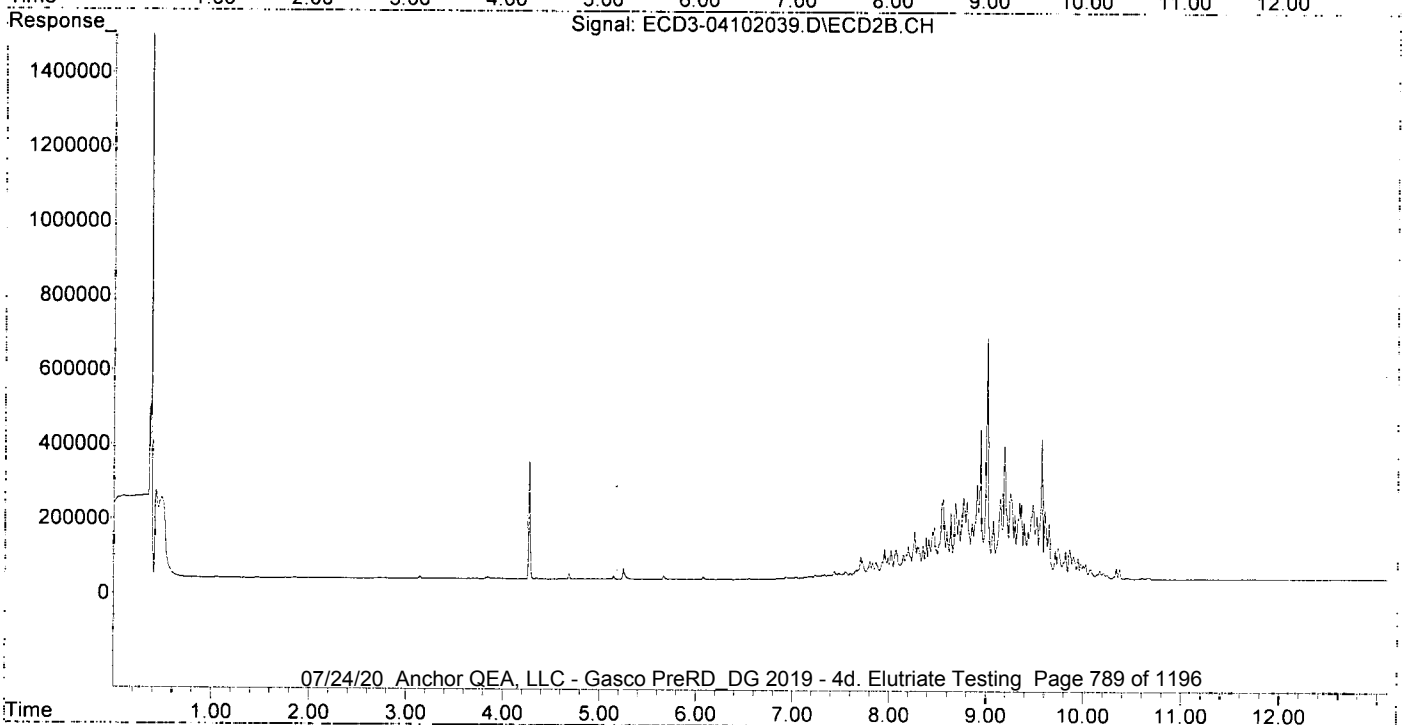
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

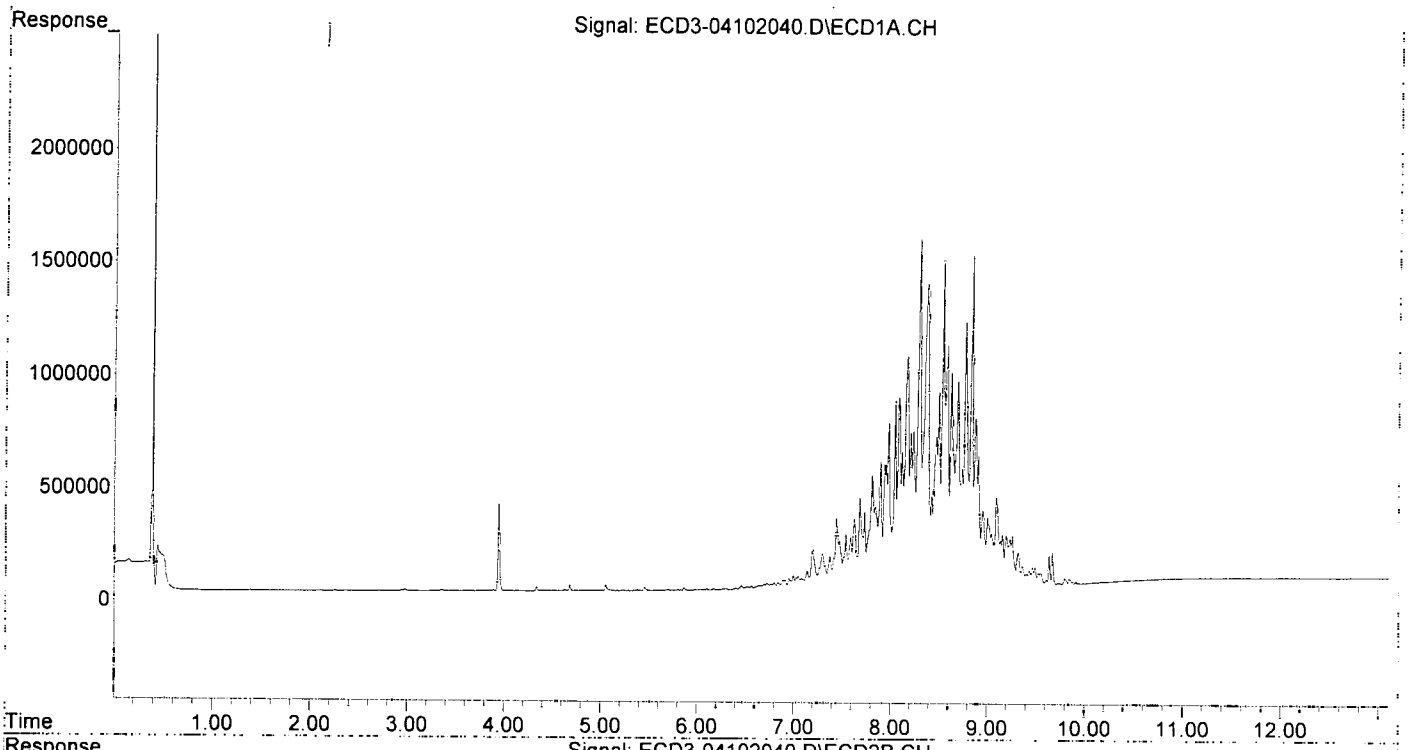
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.074	0	8341	N.D.	1884.041	#
22)	S DCBP (S)	9.801	10.652f	26157	16698	0.012	0.004	#
	Target Compounds							
2)	a-BHC	0.000	6.671	0	3076	N.D.	0.020	#
3)	g-BHC	6.398	6.978	5041	11674	0.029	0.087	#
4)	b-BHC	6.460	7.039	15874	14665	0.233	0.239	
5)	Heptachlor	6.801	7.368	25450	25090	0.155	0.222	#
6)	d-BHC	6.638	7.310	16591	23682	0.118	0.194	#
7)	Aldrin	7.048	7.662f	55413	59438	0.331	0.447	
8)	Heptachlo...	7.518	8.069	140689	187381	0.900	1.592	#
9)	trans-Chl...	7.629	8.198f	305389	206350	1.941	1.711	
10)	cis-Chlor...	7.736f	8.350	334668	210776	2.132	1.820	
11)	Endosulfa...	7.814	8.382	495845	259829	3.455	2.416	
12)	4,4'-DDE	7.736f	8.447	334668	313463	2.320	2.722	
13)	Dieldrin	7.982	8.596	728788	311091	4.535	2.598	#
14)	Endrin	8.173	8.825	1021617	317253	8.281	3.670	#
15)	4,4'-DDD	8.212	8.856	680671	381854	5.607	4.047	
16)	Endosulfa...	8.298	8.942f	1540725	1031208	12.728	11.243	
17)	4,4'-DDT	8.381	9.073	1345906	408152	15.224	7.430	#
18)	Endrin Al...	8.588	9.187	1067614	932303	10.158	11.403	
19)	Endosulfa...	8.910	9.390	574063	391665	4.766	4.653	
20)	Methoxychlor	8.741	9.572	520862	958890	12.431	34.592	#
21)	Endrin Ke...	9.096	9.816	391123	192702	2.715	2.014	
23)	Hexachlor...	3.359	0.000	6168	0	2108.666	N.D.	#
24)	Hexachlor...	0.000	6.527	0	3090	N.D.	2197.600	#
25)	Oxychlordane	7.444	8.020	310336	177734	2.198	1.582	
26)	2,4'-DDE	7.518	8.198	140689	206350	1.376	2.439	#
27)	trans-Non...	7.685	8.291	400599	210046	2.591	1.685	
28)	2,4'-DDD	7.900	8.596	552773	311091	6.572	4.387	
29)	2,4'-DDT	8.088	8.825	842514	317253	11.192	5.915	#
30)	cis-Nonac...	8.173	8.856	1021617	381854	6.460	3.051	#
31)	Mirex	8.842	9.816f	1468060	192702	14.490	2.433	#
32)	Chlordane...	7.629	8.198f	305389	206350	17.302	14.263	
33)	Chlordane...	7.685f	8.350f	400599	210776	19.332	17.051	
34)	Chlordane...	8.238f	9.010	692182	1630720	130.092	448.627	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.685	8.556	400599	549025	481.249	490.209	
37)	Toxaphene...	7.982	8.906	728788	661072	483.655	484.634	
38)	Toxaphene...	8.298	8.942	1540725	1031208	495.352	475.135	
39)	Toxaphene...	8.541	9.010	1443047	1630720	497.374	503.155	
40)	Toxaphene...	8.772	9.187	1171966	932303	497.624	505.539	
41)	Toxaphene...	8.842	9.572	1468060	958890	483.959	473.762	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

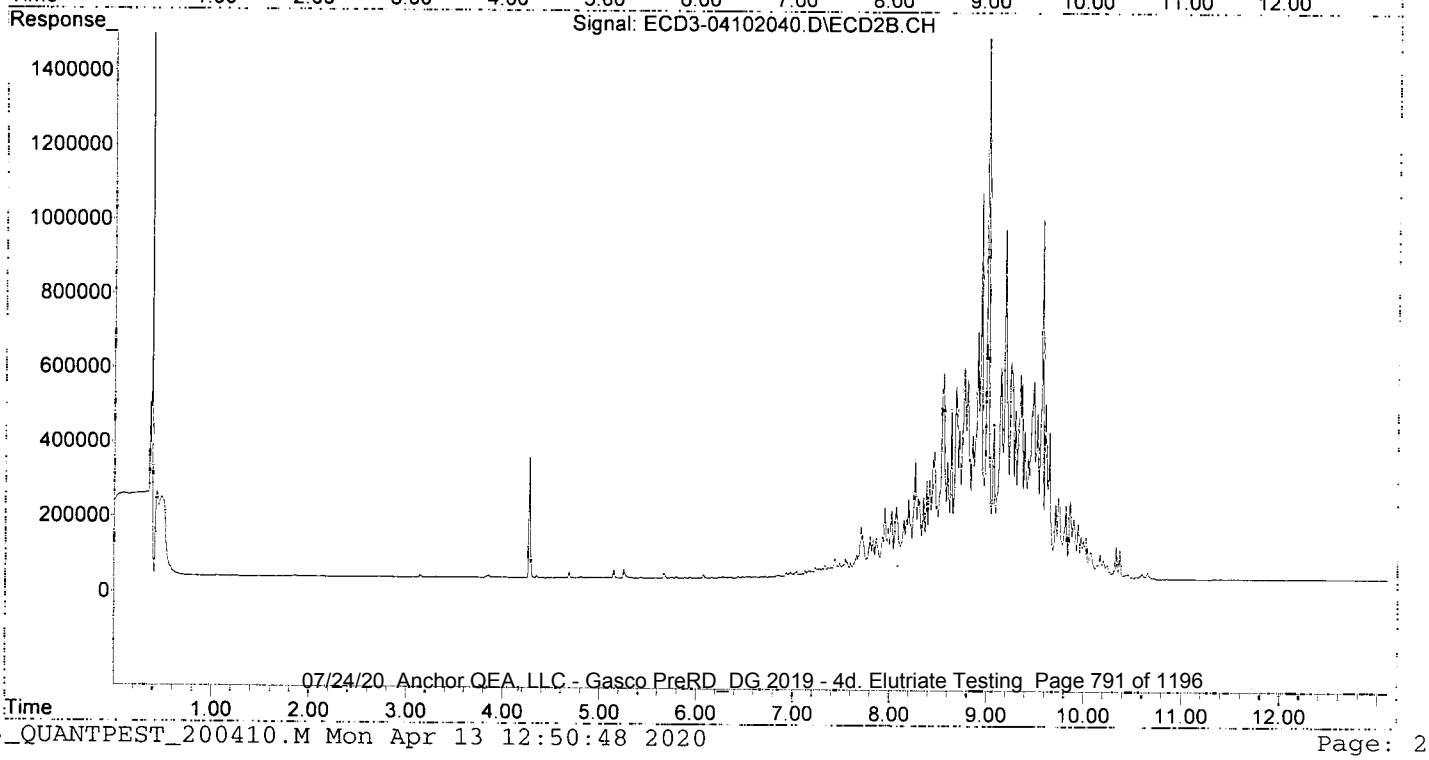
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:47:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJP 4/13/20

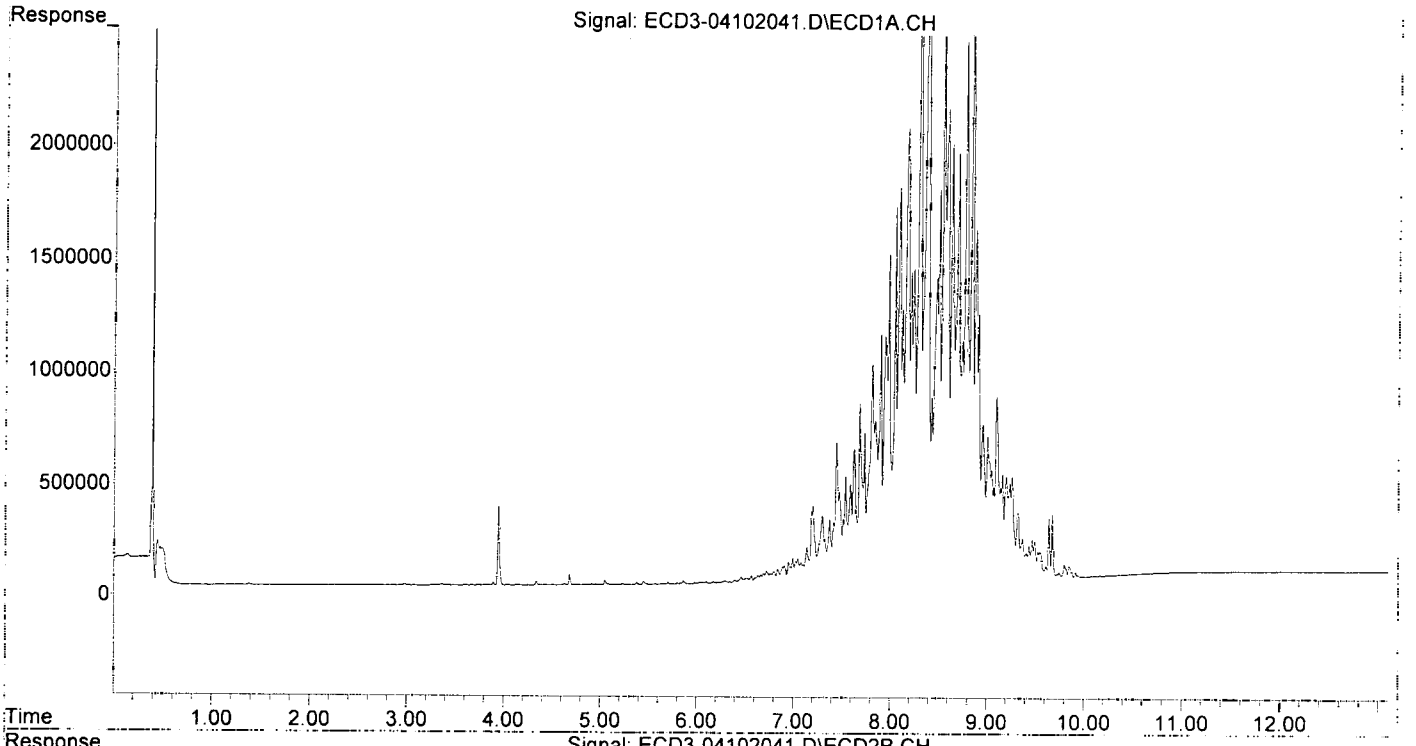
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.072	0	12189	N.D.	1884.007	#
22)	S	DCBP (S)	9.800	10.651f	57248	38636	0.296	0.330	
		Target Compounds							
2)		a-BHC	6.100	6.669	8769	8203	0.043	0.052	
3)		g-BHC	6.397	6.978	11605	25167	0.067	0.187	#
4)		b-BHC	6.460	7.040	25035	30236	0.367	0.492	
5)		Heptachlor	6.805	7.368	47493	47703	0.290	0.421	#
6)		d-BHC	6.637	7.310	32637	44673	0.233	0.365	#
7)		Aldrin	7.047	7.662f	102813	106991	0.613	0.805	
8)		Heptachlo...	7.517	8.069	279983	357721	1.790	3.039	#
9)		trans-Chl...	7.629	8.198f	588626	399056	3.741	3.309	
10)		cis-Chlor...	7.735f	8.351	658780	417339	4.197	3.603	
11)		Endosulfa...	7.814	8.382	964606	510176	6.721	4.744	
12)		4,4'-DDE	7.735f	8.448	658780	620916	4.567	5.392	
13)		Dieldrin	7.982	8.596	1453876	615932	9.046	5.144	#
14)		Endrin	8.173	8.803	2012569	1098711	16.314	12.709	
15)		4,4'-DDD	8.212	8.855	1373866	768713	11.316	8.146	
16)		Endosulfa...	8.298	8.942	3092888	2068991	25.550	22.558	
17)		4,4'-DDT	8.377f	9.073	2747616	815309	29.938	14.550	#
18)		Endrin Al...	8.588	9.188	2101414	1879026	20.194	23.310	
19)		Endosulfa...	8.910	9.389	1181441	799091	9.808	9.493	
20)		Methoxychlor	8.742	9.571	1064528	1938338	24.735	65.633	#
21)		Endrin Ke...	9.097	9.815	812677	395447	5.642	4.133	
23)		Hexachlor...	3.360	0.000	4789	0	2108.674	N.D.	#
24)		Hexachlor...	5.978f	6.526	5465	7156	BelowCal	2197.563	
25)		Oxychlordane	7.445	8.020	618933	338659	4.582	3.216	
26)		2,4'-DDE	7.517	8.198	279983	399056	2.919	4.938	#
27)		trans-Non...	7.684	8.292	793856	407537	5.338	3.479	
28)		2,4'-DDD	7.901	8.596	1099858	615932	13.285	8.984	
29)		2,4'-DDT	8.088	8.825	1748100	624012	23.221	11.633	#
30)		cis-Nonac...	8.173	8.855	2012569	768713	12.918	6.389	#
31)		Mirex	8.842	9.815f	3017263	395447	30.239	5.433	#
32)		Chlordane...	7.629	8.198f	588626	399056	33.349	27.583	
33)		Chlordane...	7.684f	8.351f	793856	417339	38.310	33.762	
34)		Chlordane...	8.239f	9.010	1388348	3308655	260.933	914.038	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.684	8.556	793856	1091279	953.677	974.373	
37)		Toxaphene...	7.982	8.906	1453876	1317514	964.854	965.873	
38)		Toxaphene...	8.298	8.942	3092888	2068991	994.381	953.300	
39)		Toxaphene...	8.541	9.010	2982259	3308655	1008.222	1012.574	
40)		Toxaphene...	8.773	9.188	2385429	1879026	1012.867	1009.048	
41)		Toxaphene...	8.842	9.571	3017263	1938338	994.667	957.680	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

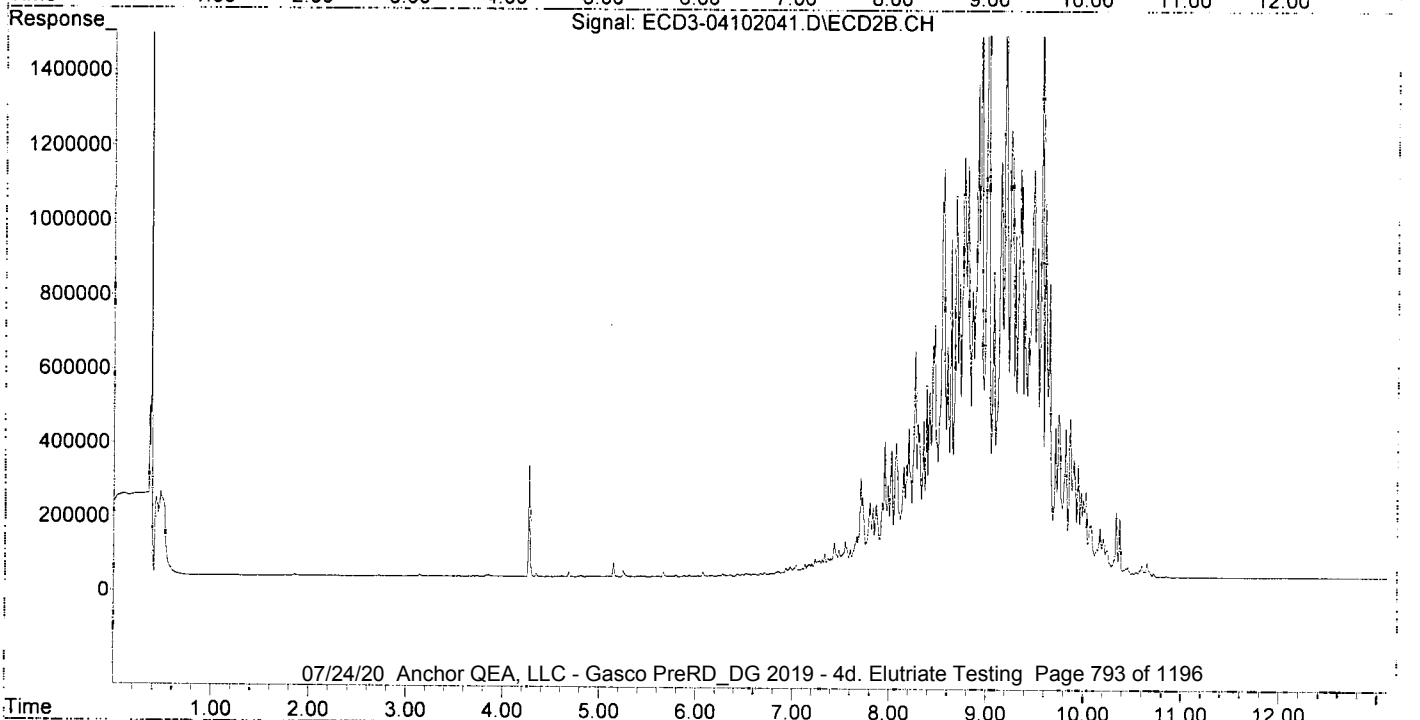
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:06 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/17/20

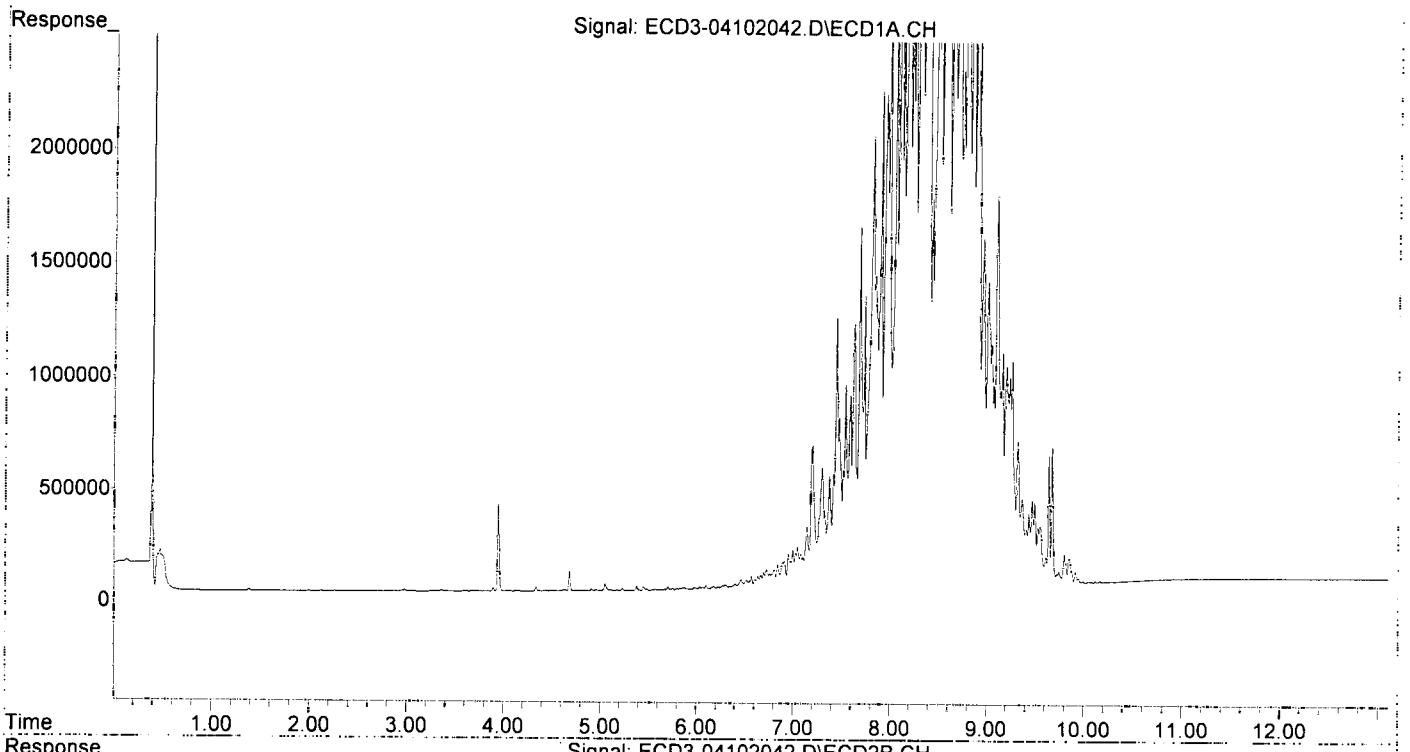
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.572	6.072	4127	8796	0.028	1884.037	#
22)	S	DCBP (S)	9.800	10.652f	131131	82189	0.971	0.975	
		Target Compounds							
2)		a-BHC	6.100	6.669	15280	18465	0.076	0.118	#
3)		g-BHC	6.398	6.980	20364	41714	0.118	0.310	#
4)		b-BHC	6.461	7.041	38326	54079	0.562	0.881	#
5)		Heptachlor	6.805	7.369	79553	80477	0.486	0.711	#
6)		d-BHC	6.636	7.310	53842	70165	0.384	0.574	#
7)		Aldrin	7.047	7.662f	181549	186792	1.083	1.406	
8)		Heptachlo...	7.517	8.070	522983	669462	3.344	5.688	#
9)		trans-Chl...	7.627	8.197f	1172309	752289	7.450	6.238	
10)		cis-Chlor...	7.734f	8.351	1289574	814891	8.215	7.035	
11)		Endosulfa...	7.813	8.382	2000942	970141	13.942	9.021	
12)		4,4'-DDE	7.734f	8.448	1289574	1207828	8.940	10.489	
13)		Dieldrin	7.981	8.595	2869354	1210348	17.854	10.108	#
14)		Endrin	8.168	8.825	4052793	1284859	32.853	14.862	#
15)		4,4'-DDD	8.212	8.855	2842465	1595177	23.413	16.904	
16)		Endosulfa...	8.298	8.942f	6253933	4148392	51.664	45.230	
17)		4,4'-DDT	8.379	9.072	5612153	1689115	57.430	29.171	#
18)		Endrin Al...	8.588	9.188	4434795	3797020	42.784	47.696	
19)		Endosulfa...	8.909	9.390	2475015	1647741	20.546	19.575	
20)		Methoxychlor	8.740	9.571	2282729	4041319	50.378	122.980	#
21)		Endrin Ke...	9.096	9.815	1725245	839675	11.977	8.776	
23)		Hexachlor...	3.359	0.000	5770	0	2108.669	N.D.	#
24)		Hexachlor...	5.978f	6.525	8977	13701	BelowCal	2197.503	
25)		Oxychlordane	7.444	8.020	1202807	609367	9.089	5.967	
26)		2,4'-DDE	7.517	8.197	522983	752289	5.606	9.535	#
27)		trans-Non...	7.683	8.292	1600533	768707	10.967	6.768	
28)		2,4'-DDD	7.899	8.595	2193373	1210348	26.680	17.987	
29)		2,4'-DDT	8.087	8.825	3552920	1284859	47.196	23.954	#
30)		cis-Nonac...	8.168	8.855	4052793	1595177	26.169	13.549	#
31)		Mirex	8.840	9.815f	6273981	839675	63.577	12.024	#
32)		Chlordane...	7.627	8.197f	1172309	752289	66.418	52.000	
33)		Chlordane...	7.683f	8.351f	1600533	814891	77.238	65.922	
34)		Chlordane...	8.238f	9.010	2832380	6693759	532.331	1850.917	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.683	8.556	1600533	2139599	1922.758	1910.388	
37)		Toxaphene...	7.981	8.906	2869354	2728248	1904.226	2000.087	
38)		Toxaphene...	8.298	8.942	6253933	4148392	2010.675	1911.397	
39)		Toxaphene...	8.540	9.010	6177768	6693759	1997.578	1990.057	
40)		Toxaphene...	8.771	9.188	5064912	3797020	2150.591	1992.314	
41)		Toxaphene...	8.840	9.571	6273981	4041319	2068.273	1996.706	
42)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

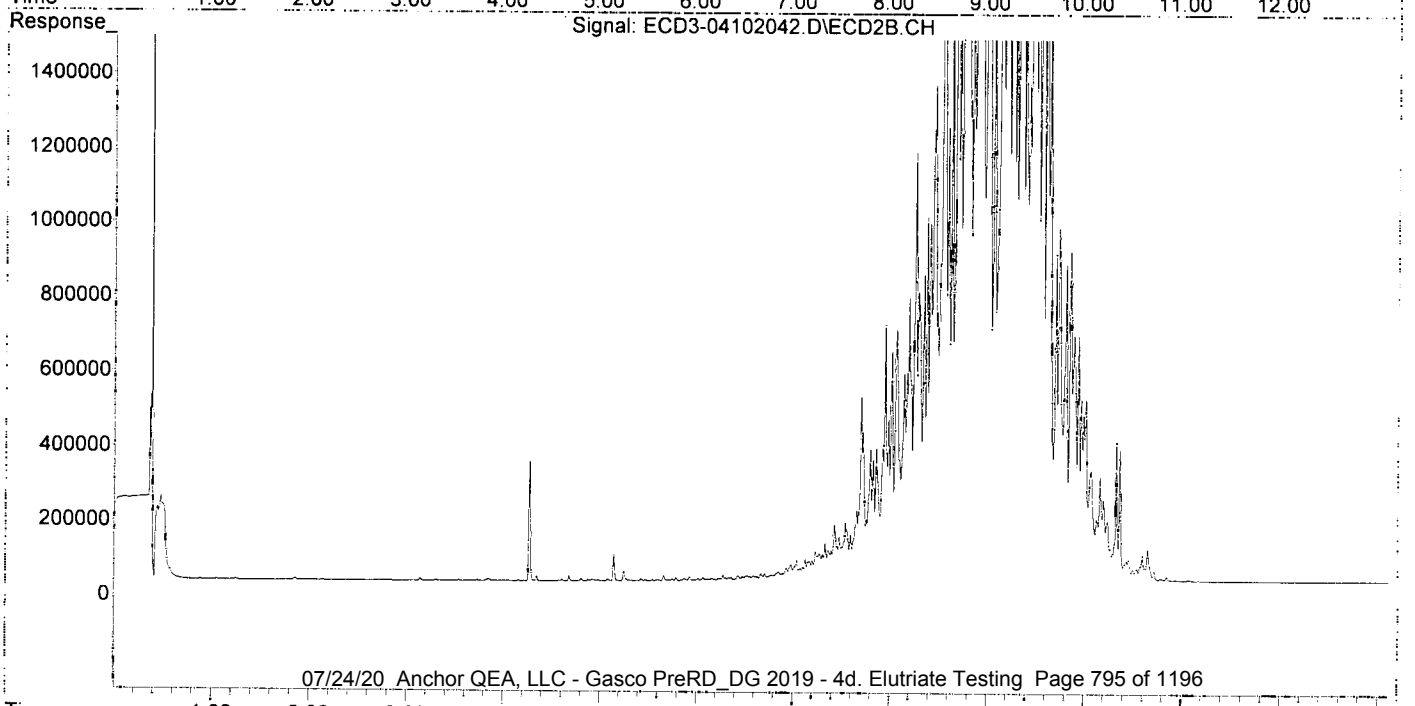
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\REQUANT\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:48:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 12:07:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Sequence Name: C:\msdchem\3\sequence\0D10031.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\3\DATA\2020-04\0D10031\
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		ECD3-04102001
Method		ECD3_AQUPEST_140312
2) Sample	1	Hexane
Datafile		ECD3-04102002
Method		ECD3_AQUPEST_140312
3) Sample	2	0D10031-BKD1
Datafile		ECD3-04102003
Method		ECD3_AQUPEST_140312
4) Sample	3	0D10031-ICB1
Datafile		ECD3-04102004
Method		ECD3_AQUPEST_140312
5) Sample	4	0D10031-CAL1
Datafile		ECD3-04102005
Method		ECD3_AQUPEST_140312
6) Sample	5	0D10031-CAL2
Datafile		ECD3-04102006
Method		ECD3_AQUPEST_140312
7) Sample	6	0D10031-CAL3
Datafile		ECD3-04102007
Method		ECD3_AQUPEST_140312
8) Sample	7	0D10031-CAL4
Datafile		ECD3-04102008
Method		ECD3_AQUPEST_140312
9) Sample	8	0D10031-CAL5
Datafile		ECD3-04102009
Method		ECD3_AQUPEST_140312
10) Sample	9	0D10031-CAL6
Datafile		ECD3-04102010
Method		ECD3_AQUPEST_140312
11) Sample	10	0D10031-CAL7
Datafile		ECD3-04102011
Method		ECD3_AQUPEST_140312
12) Sample	11	0D10031-CAL8
Datafile		ECD3-04102012
Method		ECD3_AQUPEST_140312
13) Sample	12	0D10031-CAL9
Datafile		ECD3-04102013
Method		ECD3_AQUPEST_140312
14) Sample	1	0D10031-IBL1
Datafile		ECD3-04102014
Method		ECD3_AQUPEST_140312
15) Sample	13	0D10031-ICV1
Datafile		ECD3-04102015
Method		ECD3_AQUPEST_140312
16) Sample	14	0D10031-CALA
Datafile		ECD3-04102016
Method		ECD3_AQUPEST_140312
17) Sample	15	0D10031-CALB
Datafile		ECD3-04102017
Method		ECD3_AQUPEST_140312
18) Sample	16	0D10031-CALC
Datafile		ECD3-04102018
Method		ECD3_AQUPEST_140312
19) Sample	17	0D10031-CALD
Datafile		ECD3-04102019
Method		ECD3_AQUPEST_140312
20) Sample	18	0D10031-CALE

MJB 4/13/20

Last Modified: Fri Apr 10 11:02:54 2020

Datafile		ECD3-04102020
Method		ECD3_AQUPEST_140312
21) Sample	19	0D10031-CALF
Datafile		ECD3-04102021
Method		ECD3_AQUPEST_140312
22) Sample	20	0D10031-CALG
Datafile		ECD3-04102022
Method		ECD3_AQUPEST_140312
23) Sample	21	0D10031-CALH
Datafile		ECD3-04102023
Method		ECD3_AQUPEST_140312
24) Sample	22	0D10031-CALI
Datafile		ECD3-04102024
Method		ECD3_AQUPEST_140312
25) Sample	1	0D10031-IBL2
Datafile		ECD3-04102025
Method		ECD3_AQUPEST_140312
26) Sample	23	0D10031-ICV2
Datafile		ECD3-04102026
Method		ECD3_AQUPEST_140312
27) Sample	24	0D10031-CALJ
Datafile		ECD3-04102027
Method		ECD3_AQUPEST_140312
28) Sample	25	0D10031-CALK
Datafile		ECD3-04102028
Method		ECD3_AQUPEST_140312
29) Sample	26	0D10031-CALL
Datafile		ECD3-04102029
Method		ECD3_AQUPEST_140312
30) Sample	27	0D10031-CALM
Datafile		ECD3-04102030
Method		ECD3_AQUPEST_140312
31) Sample	28	0D10031-CALN
Datafile		ECD3-04102031
Method		ECD3_AQUPEST_140312
32) Sample	29	0D10031-CALO
Datafile		ECD3-04102032
Method		ECD3_AQUPEST_140312
33) Sample	30	0D10031-CALP
Datafile		ECD3-04102033
Method		ECD3_AQUPEST_140312
34) Sample	1	0D10031-IBL3
Datafile		ECD3-04102034
Method		ECD3_AQUPEST_140312
35) Sample	31	0D10031-ICV3
Datafile		ECD3-04102035
Method		ECD3_AQUPEST_140312
36) Sample	32	0D10031-CALQ
Datafile		ECD3-04102036
Method		ECD3_AQUPEST_140312
37) Sample	33	0D10031-CALR
Datafile		ECD3-04102037
Method		ECD3_AQUPEST_140312
38) Sample	34	0D10031-CALS
Datafile		ECD3-04102038
Method		ECD3_AQUPEST_140312
39) Sample	35	0D10031-CALT
Datafile		ECD3-04102039
Method		ECD3_AQUPEST_140312
40) Sample	36	0D10031-CALU
Datafile		ECD3-04102040
Method		ECD3_AQUPEST_140312
41) Sample	37	0D10031-CALV
Datafile		ECD3-04102041
Method		ECD3_AQUPEST_140312
42) Sample	38	0D10031-CALW
Datafile		ECD3-04102042
Method		ECD3_AQUPEST_140312
43) Sample	1	0D10031-IBL4
Datafile		ECD3-04102043
Method		ECD3_AQUPEST_140312

Sequence Name: C:\msdchem\3\sequence\0D10031.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	39	0D10031-ICV4		
	Datafile		ECD3-04102044		
	Method			ECD3_AQUPEST_140312	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0D10031 BKD1
Data File: ECD3-04102003.D

First Column Area Counts		Percent Breakdown	
DDE	870897		
DDD	6379977		
DDT	109821158	**6.19**	**PASS**
Endrin	63679609	**12.24**	**PASS**
Endrin Aldehyde	2641231		
Endrin Ketone	6240924		

Second Column Area Counts		Percent Breakdown	
DDE	762058		
DDD	5075373		
DDT	58162978	**9.12**	**PASS**
Endrin	40642632	**12.35**	**PASS**
Endrin Aldehyde	1781204		
Endrin Ketone	3943501		

Breakdown must be less than 15% to accept sample data.

MJB 4/13/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 11:48
Operator : MJB
Sample : 0D10031-BKD1
Misc : A20C091
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:25:26 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410.M
Quant Title : Pesticides
QLast Update : Wed Apr 08 14:20:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.772	870897	NoCal	ng/mL
2)	Endrin	8.153	63679609	NoCal	ng/mL
3)	4,4'-DDD	8.198	6379977	NoCal	ng/mL
4)	4,4'-DDT	8.397	109821158	NoCal	ng/mL
5)	Endrin Aldehyde	8.605	2641231	NoCal	ng/mL
6)	Endrin Ketone	9.107	6240924	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.436	762058	NoCal	ng/mL
9)	Endrin [2C]	8.811	40642632	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.854	5075373	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.198	1781204	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.083	58162978	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.793	3943501	NoCal	ng/mL

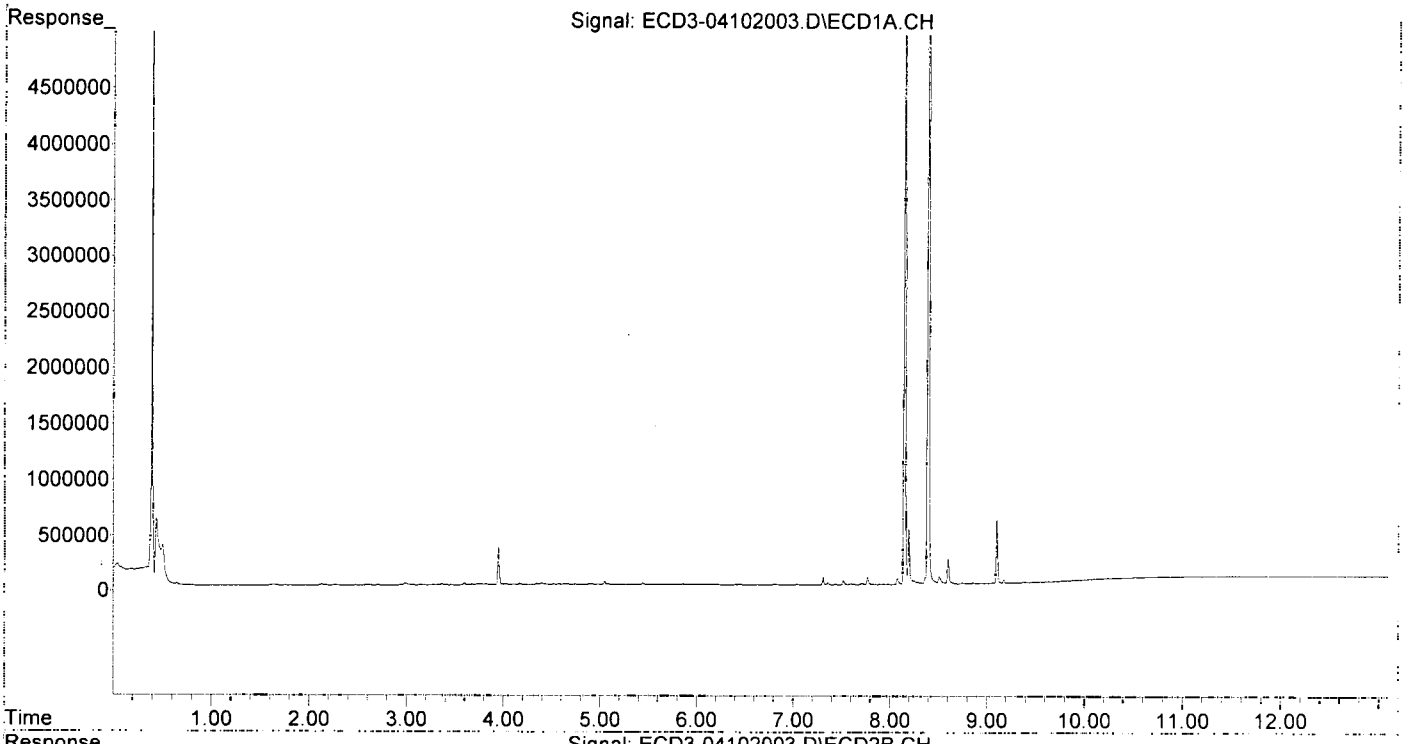
(f)=RT Delta > 1/2 Window (m)=manual int.

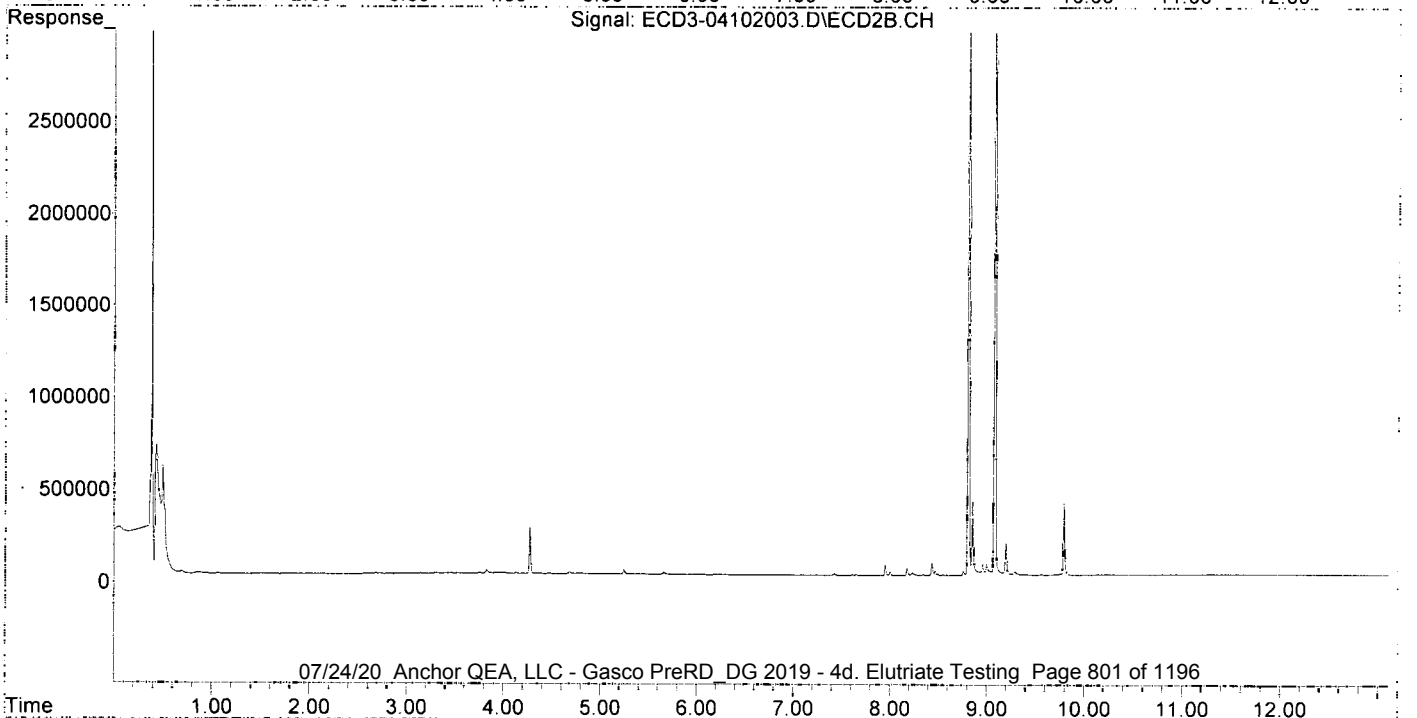
MJB 4/13/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 11:48
Operator : MJB
Sample : 0D10031-BKD1
Misc : A20C091
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:25:26 2020
Quant Method : C:\msdchem\3\METHODS\PestBreakdownCHK_200410.M
Quant Title : Pesticides
QLast Update : Wed Apr 08 14:20:09 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:36:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

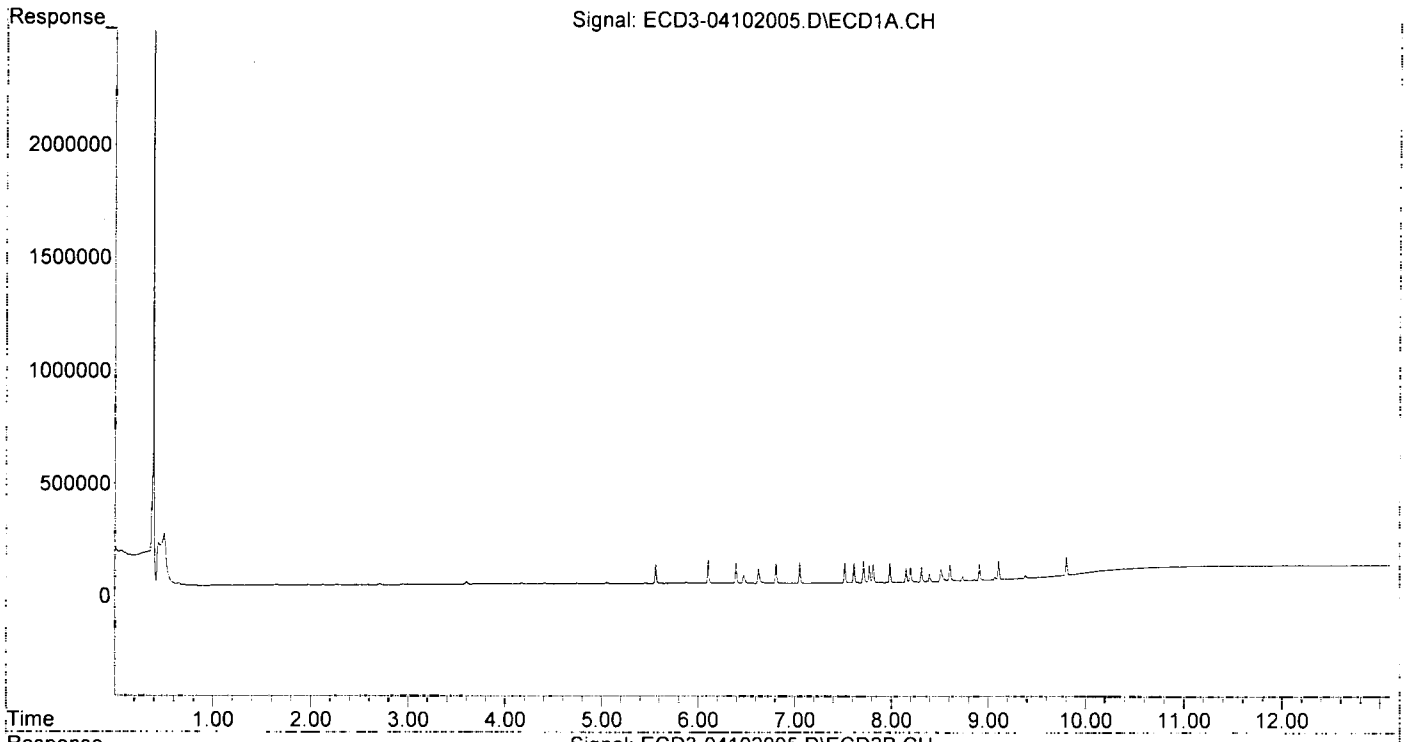
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.561	6.060	85749	73007	0.495	0.475
22) S	DCBP (S)	9.806	10.678	78745	50449	0.437	0.716 #
	Target Compounds						
2)	a-BHC	6.107	6.672	106090	87452	0.473	0.787 #
3)	g-BHC	6.394	6.993	91195	75918	0.459	0.689 #
4)	b-BHC	6.474	7.059	37211	37170	0.406	0.649 #
5)	Heptachlor	6.809	7.371	88422	63633	0.498	0.633
6)	d-BHC	6.628	7.317	66268	66365	0.340	0.598 #
7)	Aldrin	7.054	7.640	92070	76126	0.488	0.696 #
8)	Heptachlo...	7.520	8.081	91327	69830	0.523	0.763 #
9)	trans-Chl...	7.617	8.222	87797	71156	0.488	0.570
10)	cis-Chlor...	7.714	8.330	98925	70102	0.567	0.726
11)	Endosulfa...	7.815	8.382	82435	65843	0.513	0.735 #
12)	4,4'-DDE	7.774	8.437	76638	64334	0.430	0.685 #
13)	Dieldrin	7.988	8.584	86632	68980	0.484	0.689 #
14)	Endrin	8.155	8.813	63369	47079	0.474	0.661
15)	4,4'-DDD	8.201	8.857	67675	58722	0.458	0.760 #
16)	Endosulfa...	8.315	8.962	67076	55230	0.470	0.707 #
17)	4,4'-DDT	8.399	9.084	37407	24779	0.312	0.484 #
18)	Endrin Al...	8.608	9.201	73553	58732	0.358	0.629 #
19)	Endosulfa...	8.913	9.392	72456	50159	0.505	0.495
20)	Methoxychlor	8.738	9.568	19411	11909	0.316	0.448 #
21)	Endrin Ke...	9.110	9.796	83435	57366	0.509	0.785 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

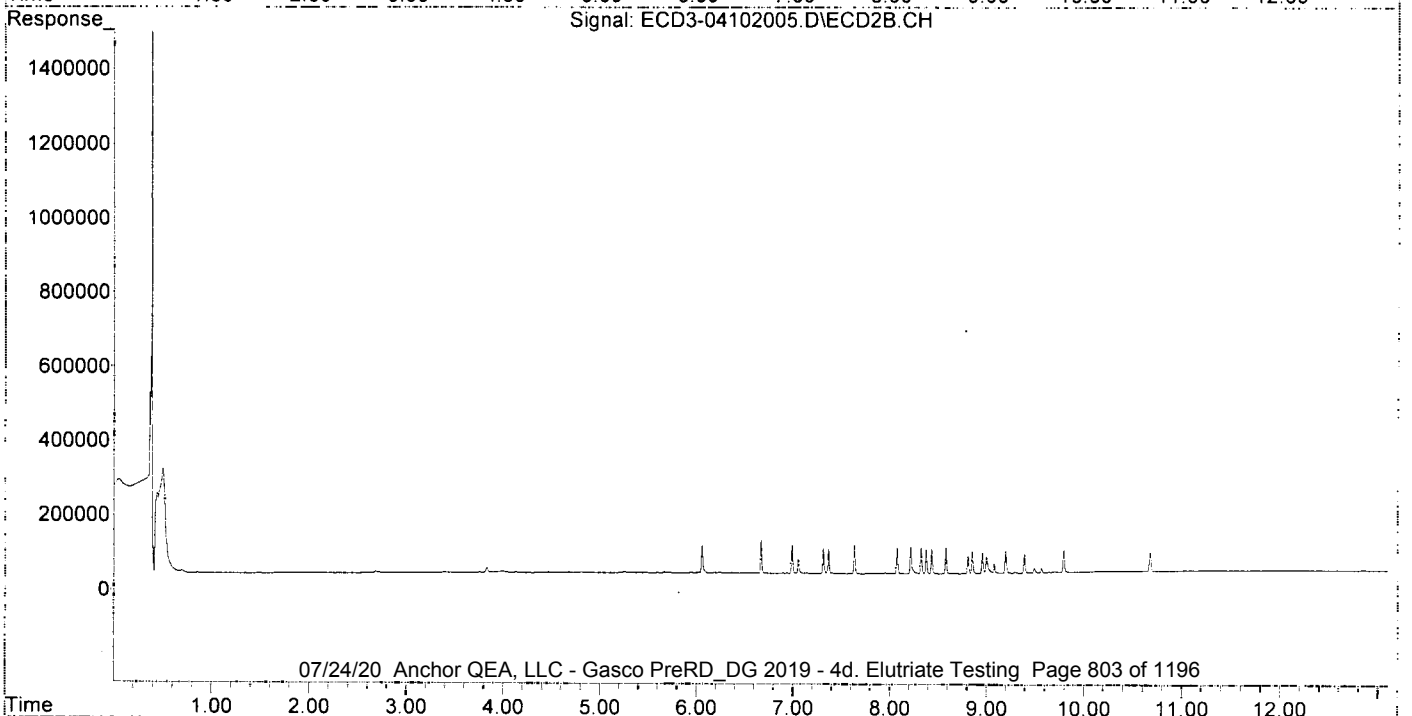
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:22
Operator : MJB
Sample : 0D10031-CAL1
Misc : A20D133, AB 0.5 ppb
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:36:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

AJB 4/13/20

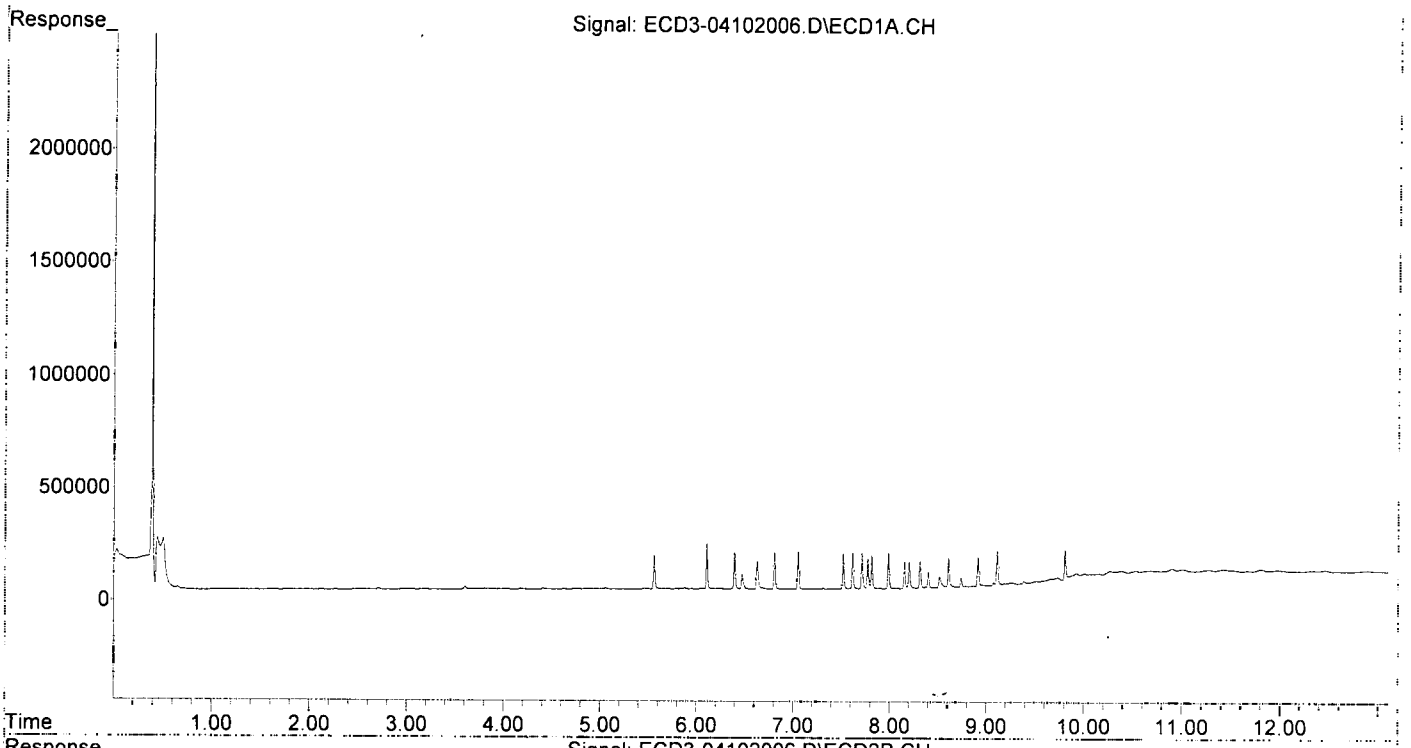
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.061	150599	127191	0.870	0.954
22) S	DCBP (S)	9.808	10.679	135418	81619	0.888	1.291 #
	Target Compounds						
2)	a-BHC	6.107	6.672	198771	160189	0.886	1.442 #
3)	g-BHC	6.394	6.994	162951	137359	0.820	1.364 #
4)	b-BHC	6.474	7.060	66101	66254	0.721	1.322 #
5)	Heptachlor	6.809	7.371	162313	116127	0.915	1.283 #
6)	d-BHC	6.628	7.317	123295	118368	0.633	1.165 #
7)	Aldrin	7.054	7.640	165393	136778	0.876	1.250 #
8)	Heptachlo...	7.521	8.082	160396	122009	0.919	1.332 #
9)	trans-Chl...	7.617	8.223	160412	126502	0.892	1.143
10)	cis-Chlor...	7.715	8.331	162363	124533	0.931	1.291
11)	Endosulfa...	7.816	8.383	145356	110124	0.905	1.228
12)	4,4'-DDE	7.775	8.438	132356	115967	0.742	1.235 #
13)	Dieldrin	7.988	8.585	160736	120867	0.897	1.208
14)	Endrin	8.156	8.815	118800	86799	0.888	1.219
15)	4,4'-DDD	8.202	8.858	118335	101471	0.793	1.416 #
16)	Endosulfa...	8.316	8.964	119697	95182	0.840	1.219 #
17)	4,4'-DDT	8.400	9.085	73450	49721	0.614	0.971 #
18)	Endrin Al...	8.609	9.203	127313	100085	0.791	1.237 #
19)	Endosulfa...	8.913	9.393	126416	88344	0.880	1.018
20)	Methoxychlor	8.739	9.568	39011	24923	0.635	0.938 #
21)	Endrin Ke...	9.111	9.797	152949	100622	0.933	1.377 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

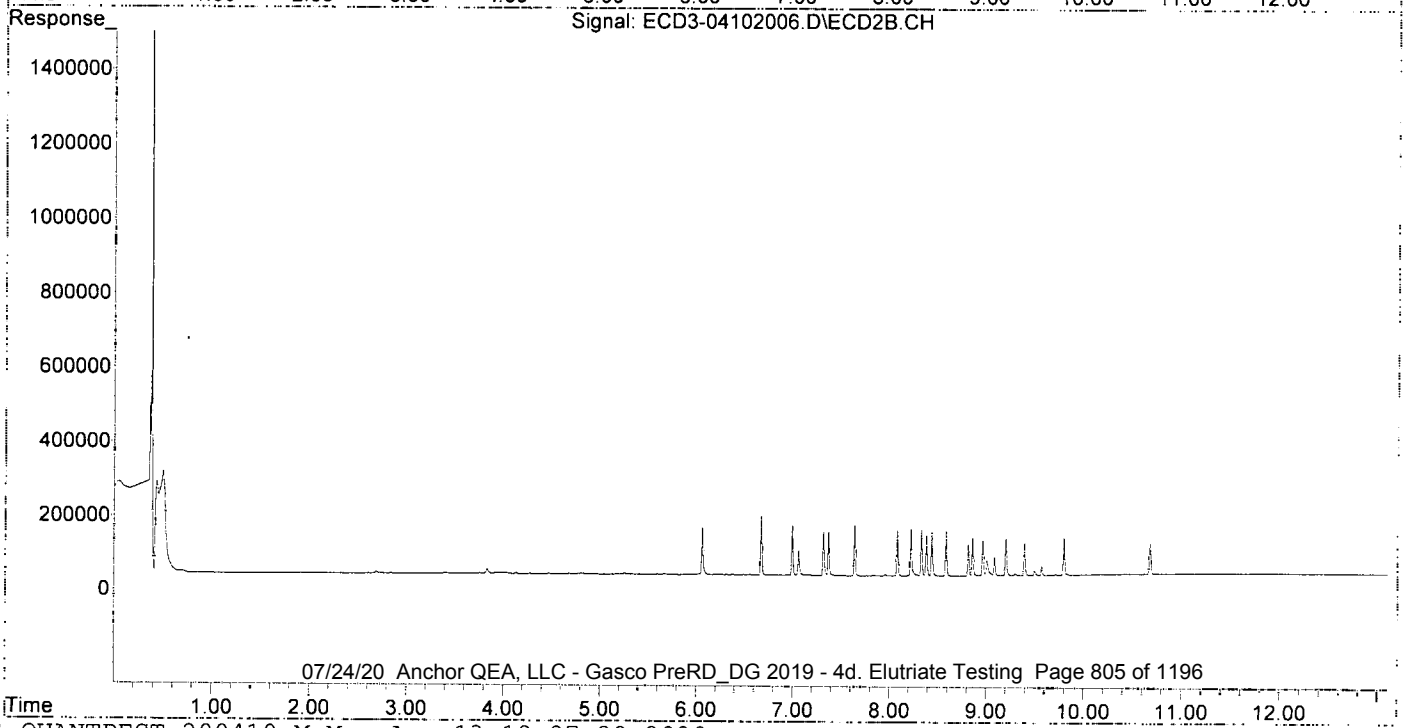
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:39
Operator : MJB
Sample : 0D10031-CAL2
Misc : A20D134, AB 1 ppb
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:37:35 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

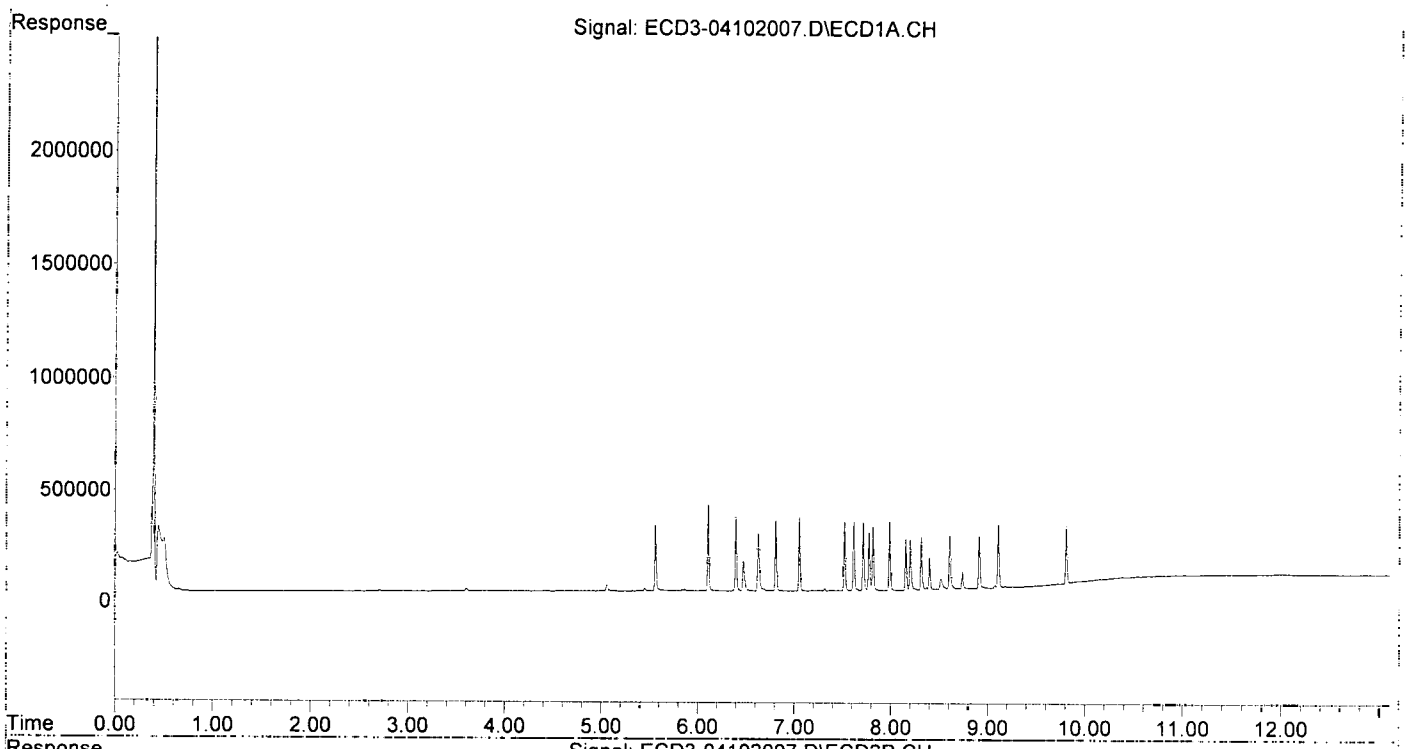
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.061	294629	242169	1.702	1.971
22) S	DCBP (S)	9.807	10.679	249594	153175	1.796	2.610 #
	Target Compounds						
2)	a-BHC	6.107	6.673	386030	318129	1.721	2.863 #
3)	g-BHC	6.395	6.994	330735	271046	1.665	2.834 #
4)	b-BHC	6.473	7.059	133460	127912	1.456	2.749 #
5)	Heptachlor	6.809	7.371	311735	223319	1.756	2.614 #
6)	d-BHC	6.628	7.317	258031	234036	1.324	2.427 #
7)	Aldrin	7.054	7.640	330949	268918	1.753	2.458 #
8)	Heptachlo...	7.521	8.082	311852	241069	1.787	2.632 #
9)	trans-Chl...	7.617	8.223	308851	240690	1.717	2.324
10)	cis-Chlor...	7.714	8.331	309955	235252	1.777	2.438
11)	Endosulfa...	7.815	8.382	284291	219822	1.770	2.452
12)	4,4'-DDE	7.774	8.438	264579	230910	1.484	2.459 #
13)	Dieldrin	7.988	8.585	311986	236771	1.742	2.366
14)	Endrin	8.155	8.814	233183	167127	1.744	2.347
15)	4,4'-DDD	8.201	8.857	229102	184447	1.534	2.690 #
16)	Endosulfa...	8.315	8.963	233441	182611	1.637	2.339 #
17)	4,4'-DDT	8.399	9.085	145442	89330	1.215	1.744 #
18)	Endrin Al...	8.608	9.202	237806	191739	1.680	2.584 #
19)	Endosulfa...	8.913	9.393	233112	166426	1.623	2.086
20)	Methoxychlor	8.739	9.568	74306	46818	1.209	1.763 #
21)	Endrin Ke...	9.110	9.797	285336	188983	1.741	2.586 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

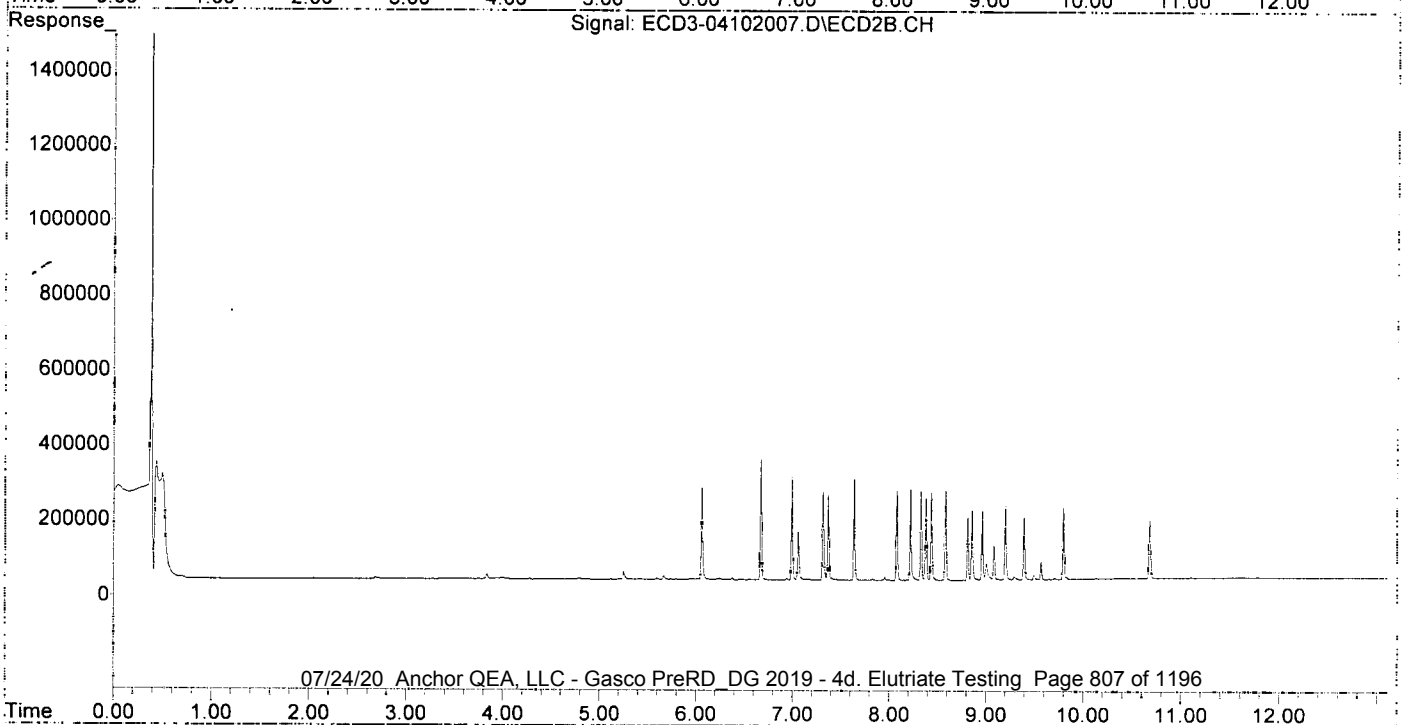
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 12:56
Operator : MJB
Sample : 0D10031-CAL3
Misc : A20C179, AB 2 ppb
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

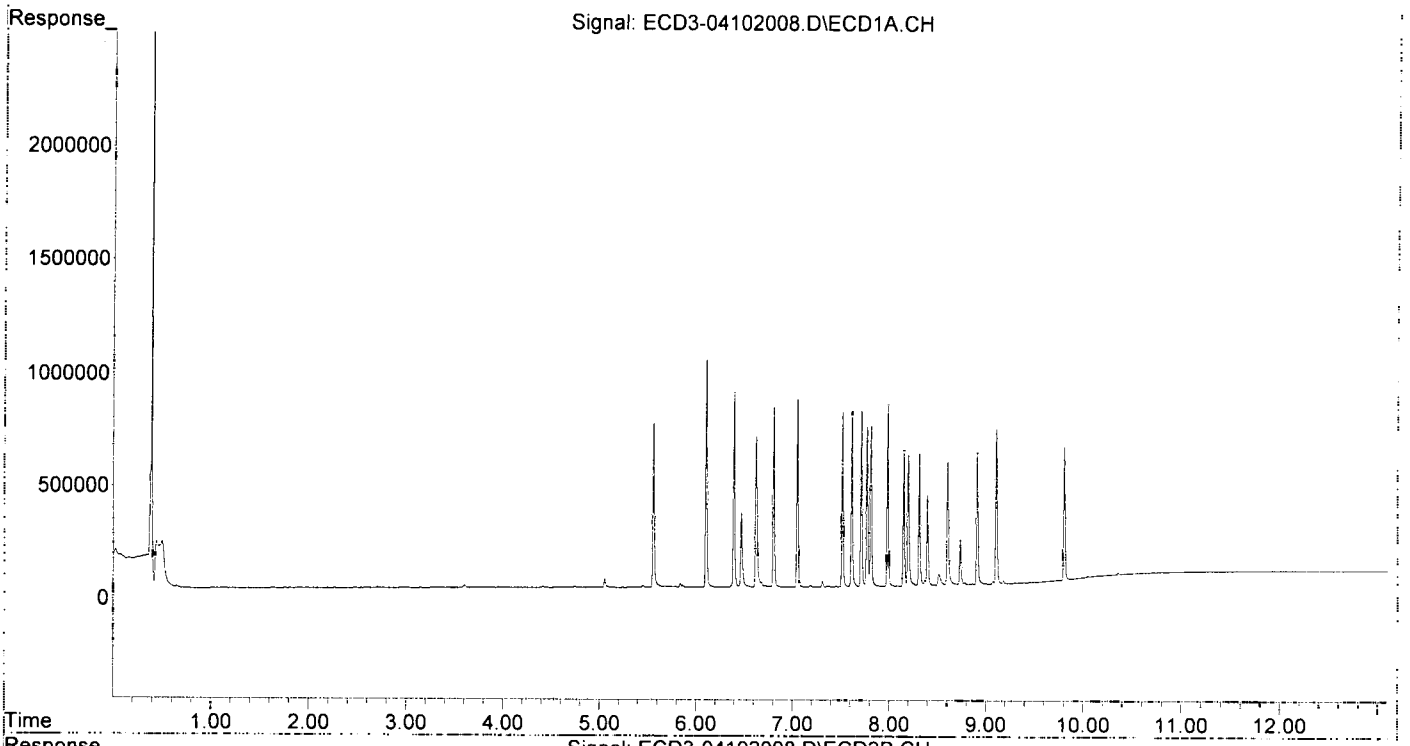
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.561	6.061	727524	601812	4.202	5.159	
22)	S	DCBP (S)	9.806	10.678	587016	364366	4.483	6.507	#
		Target Compounds							
2)		a-BHC	6.107	6.673	1011773	809491	4.512	7.285	#
3)		g-BHC	6.395	6.994	864784	673024	4.354	7.268	#
4)		b-BHC	6.472	7.059	326774	302941	3.566	6.814	#
5)		Heptachlor	6.808	7.371	799546	564693	4.505	6.863	#
6)		d-BHC	6.626	7.317	669294	620859	3.434	6.662	#
7)		Aldrin	7.052	7.640	838045	699880	4.438	6.397	#
8)		Heptachlo...	7.520	8.082	780587	590771	4.472	6.451	#
9)		trans-Chl...	7.616	8.223	779273	605591	4.332	6.104	#
10)		cis-Chlor...	7.714	8.331	784009	585259	4.496	6.065	
11)		Endosulfa...	7.815	8.382	712441	546125	4.434	6.092	
12)		4,4'-DDE	7.774	8.438	712814	584778	3.998	6.229	#
13)		Dieldrin	7.987	8.584	805257	602273	4.496	6.018	
14)		Endrin	8.155	8.814	600774	419756	4.493	5.895	
15)		4,4'-DDD	8.201	8.857	580403	466489	3.887	7.032	#
16)		Endosulfa...	8.314	8.963	589436	453168	4.134	5.805	#
17)		4,4'-DDT	8.399	9.085	402575	260165	3.363	5.081	#
18)		Endrin Al...	8.608	9.201	545702	424119	4.161	6.003	#
19)		Endosulfa...	8.913	9.393	580327	407094	4.041	5.378	
20)		Methoxychlor	8.738	9.568	204727	127410	3.332	4.797	#
21)		Endrin Ke...	9.110	9.797	688717	464140	4.203	6.350	#
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d	
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d	
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d	
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

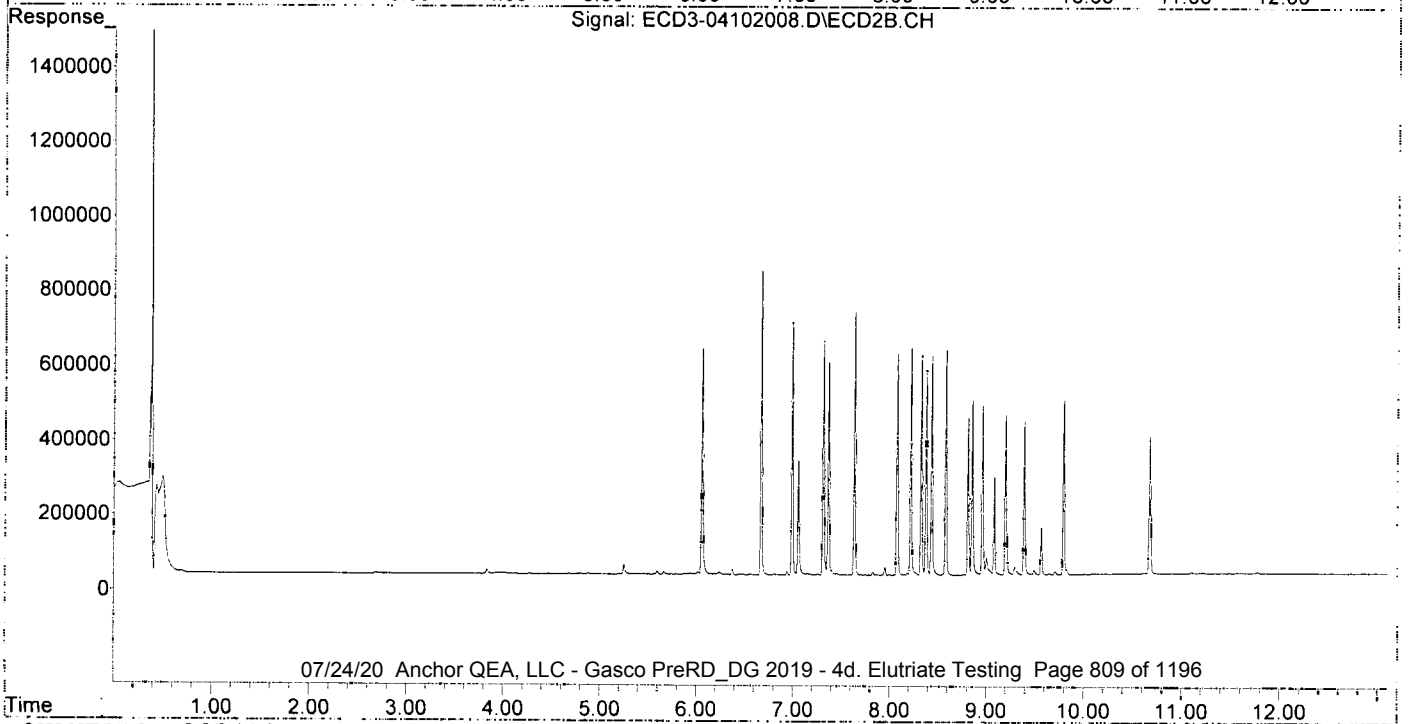
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:14
Operator : MJB
Sample : 0D10031-CAL4
Misc : A20C180, AB 5 ppb
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:38:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:39:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

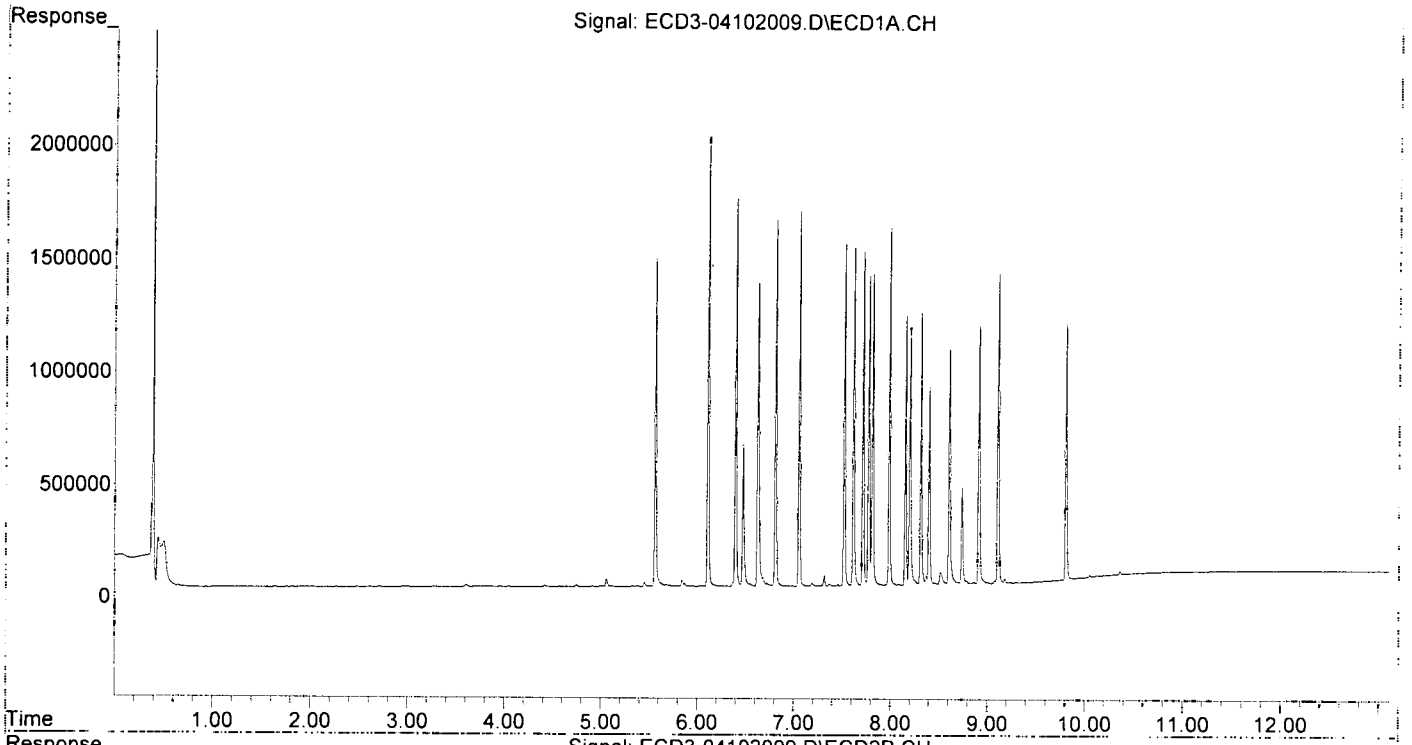
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.563	6.062	1449955	1164651	8.375	10.166
22) S	DCBP (S)	9.808	10.679	1130527	701737	8.819	12.745 #
	Target Compounds						
2)	a-BHC	6.109	6.674	1992062	1592422	8.883	14.330 #
3)	g-BHC	6.395	6.994	1722298	1349252	8.671	14.771 #
4)	b-BHC	6.473	7.059	621775	583118	6.785	13.363 #
5)	Heptachlor	6.809	7.372	1629185	1105625	9.179	13.635 #
6)	d-BHC	6.627	7.317	1348815	1223432	6.920	13.302 #
7)	Aldrin	7.054	7.641	1665359	1316403	8.820	12.032
8)	Heptachlo...	7.521	8.082	1525229	1175438	8.739	12.836 #
9)	trans-Chl...	7.617	8.223	1502883	1202264	8.355	12.309 #
10)	cis-Chlor...	7.714	8.332	1485434	1131819	8.518	11.729
11)	Endosulfa...	7.815	8.383	1386208	1056492	8.628	11.786
12)	4,4'-DDE	7.774	8.438	1382476	1137288	7.754	12.114 #
13)	Dieldrin	7.988	8.585	1588078	1196698	8.867	11.957
14)	Endrin	8.156	8.815	1200412	862016	8.978	12.106
15)	4,4'-DDD	8.201	8.857	1143858	889692	7.661	13.578 #
16)	Endosulfa...	8.315	8.963	1207633	876423	8.470	11.226
17)	4,4'-DDT	8.399	9.085	875483	578694	7.313	11.301 #
18)	Endrin Al...	8.608	9.202	1043139	811442	8.174	11.711 #
19)	Endosulfa...	8.913	9.393	1141536	796875	7.949	10.711
20)	Methoxychlor	8.739	9.568	427742	269363	6.962	10.141 #
21)	Endrin Ke...	9.111	9.797	1381099	942335	8.427	12.892 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

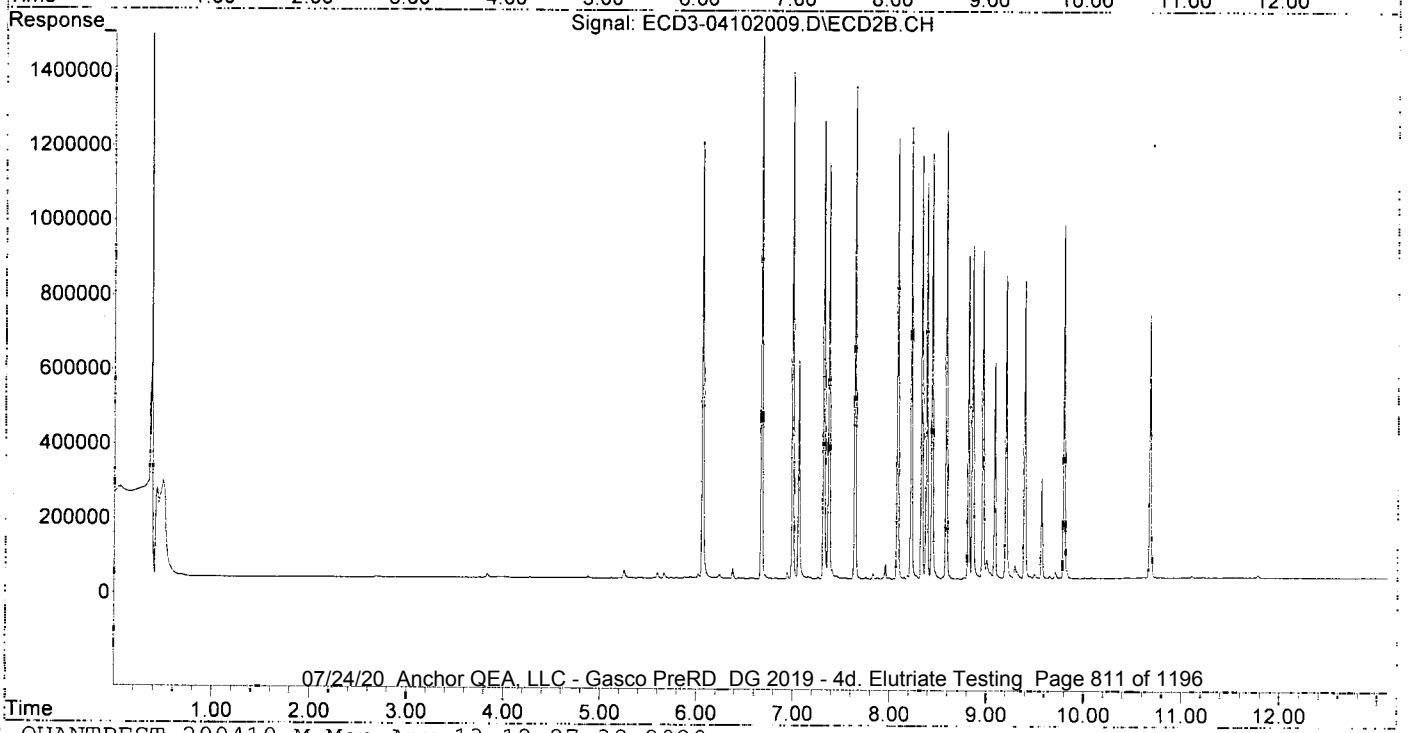
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:31
Operator : MJB
Sample : 0D10031-CAL5
Misc : A20C181, AB 10 ppb
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:39:30 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

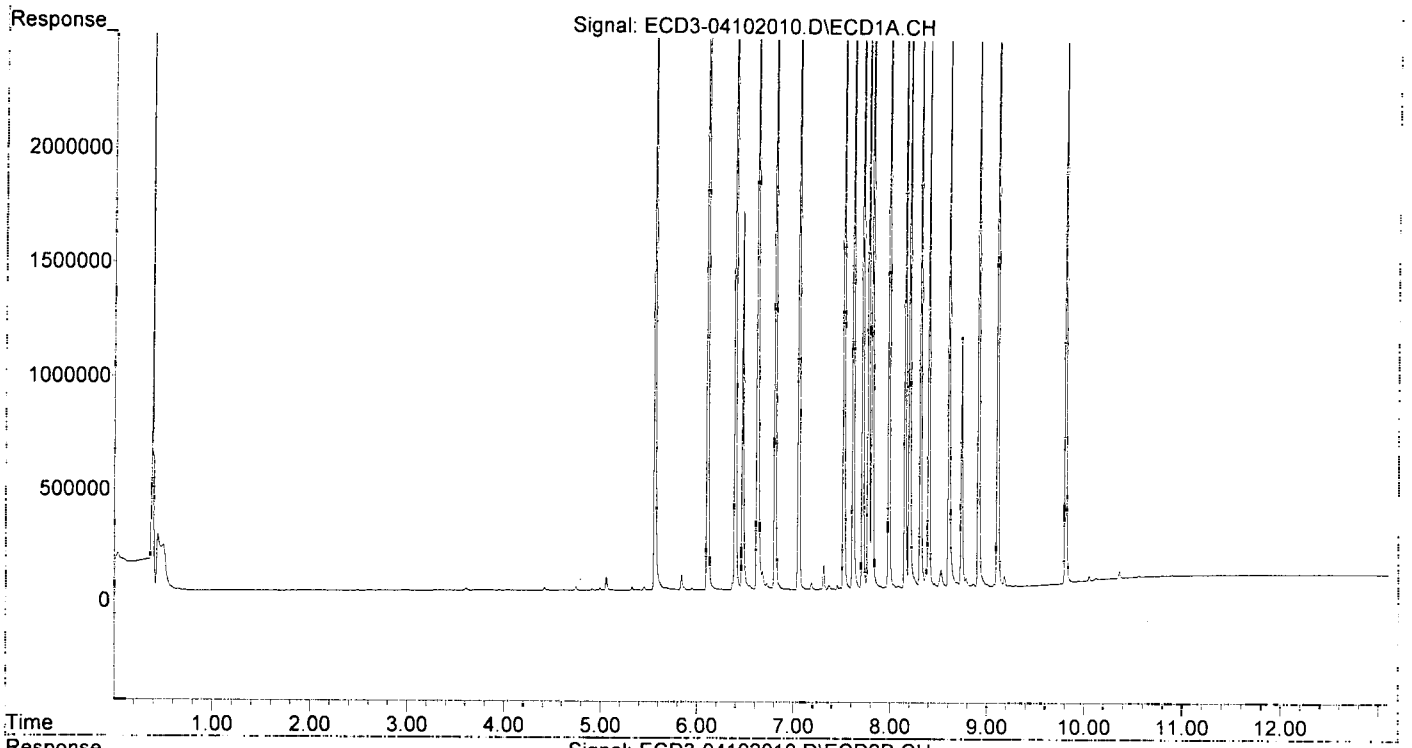
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.061	3620730	2793596	20.914	24.796
22) S	DCBP (S)	9.807	10.679	2727108	1659485	21.610	30.582 #
	Target Compounds						
2)	a-BHC	6.108	6.673	4970390	3891920	22.164	35.023 #
3)	g-BHC	6.395	6.994	4292566	3362986	21.611	37.466 #
4)	b-BHC	6.471	7.058	1680896	1441819	18.342	33.762 #
5)	Heptachlor	6.808	7.371	3984158	2769954	22.448	34.782 #
6)	d-BHC	6.624	7.315	3518783	3102871	18.053	34.358 #
7)	Aldrin	7.053	7.640	4119405	3247513	21.816	29.681
8)	Heptachlo...	7.520	8.082	3754002	2836226	21.509	30.971 #
9)	trans-Chl...	7.616	8.223	3815437	2978658	21.210	30.947 #
10)	cis-Chlor...	7.713	8.331	3703571	2773817	21.237	28.744
11)	Endosulfa...	7.814	8.382	3466454	2611533	21.576	29.133
12)	4,4'-DDE	7.773	8.437	3675424	2877432	20.614	30.648 #
13)	Dieldrin	7.987	8.585	3986579	2919821	22.258	29.175
14)	Endrin	8.155	8.814	3047888	2128761	22.795	29.896
15)	4,4'-DDD	8.200	8.857	3056605	2212251	20.472	34.284 #
16)	Endosulfa...	8.314	8.962	2966130	2201693	20.805	28.202
17)	4,4'-DDT	8.399	9.085	2456263	1496497	20.517	29.225 #
18)	Endrin Al...	8.607	9.201	2573122	1952460	20.547	28.591
19)	Endosulfa...	8.913	9.393	2840981	2020111	19.782	27.447
20)	Methoxychlor	8.737	9.568	1114647	689159	18.142	25.945 #
21)	Endrin Ke...	9.110	9.797	3445975	2250304	21.027	30.787 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

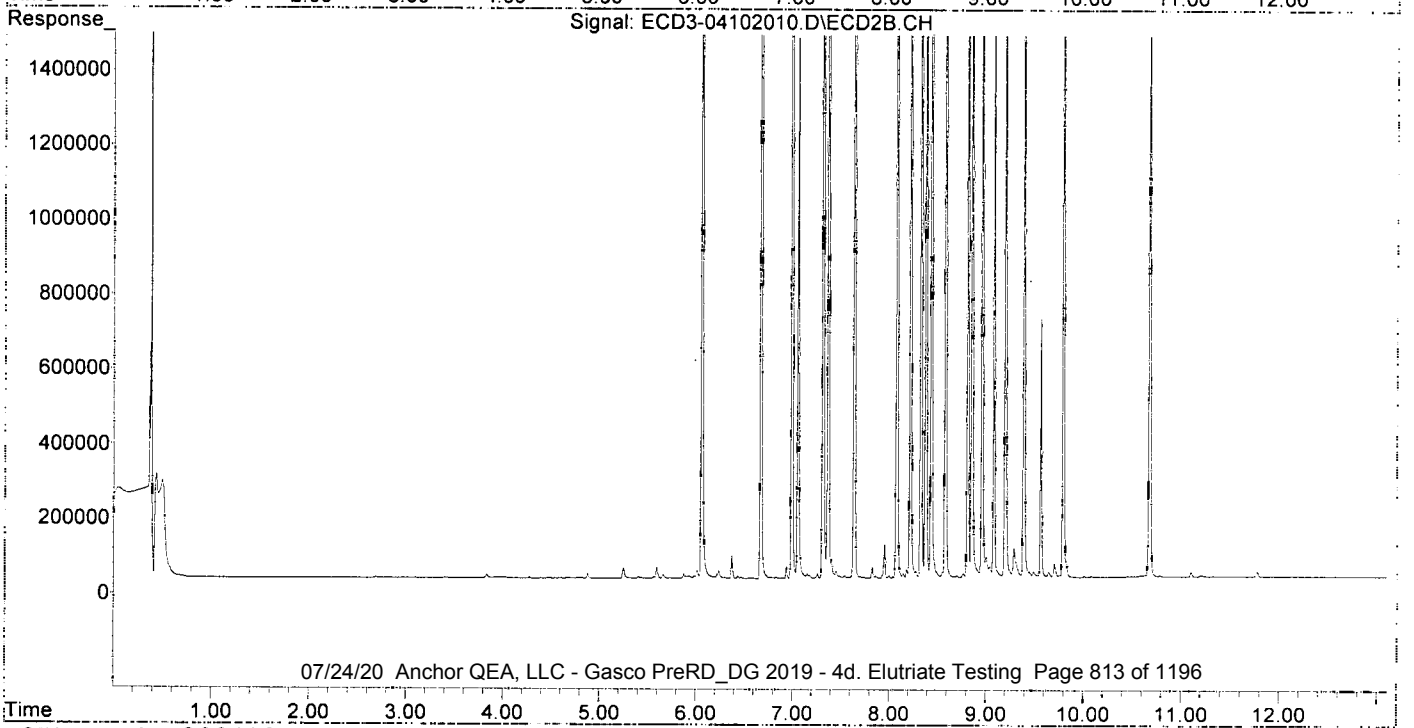
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 13:48
Operator : MJB
Sample : 0D10031-CAL6
Misc : A20C182, AB 25 ppb
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:35:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Mar 09 12:29:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4.13.20

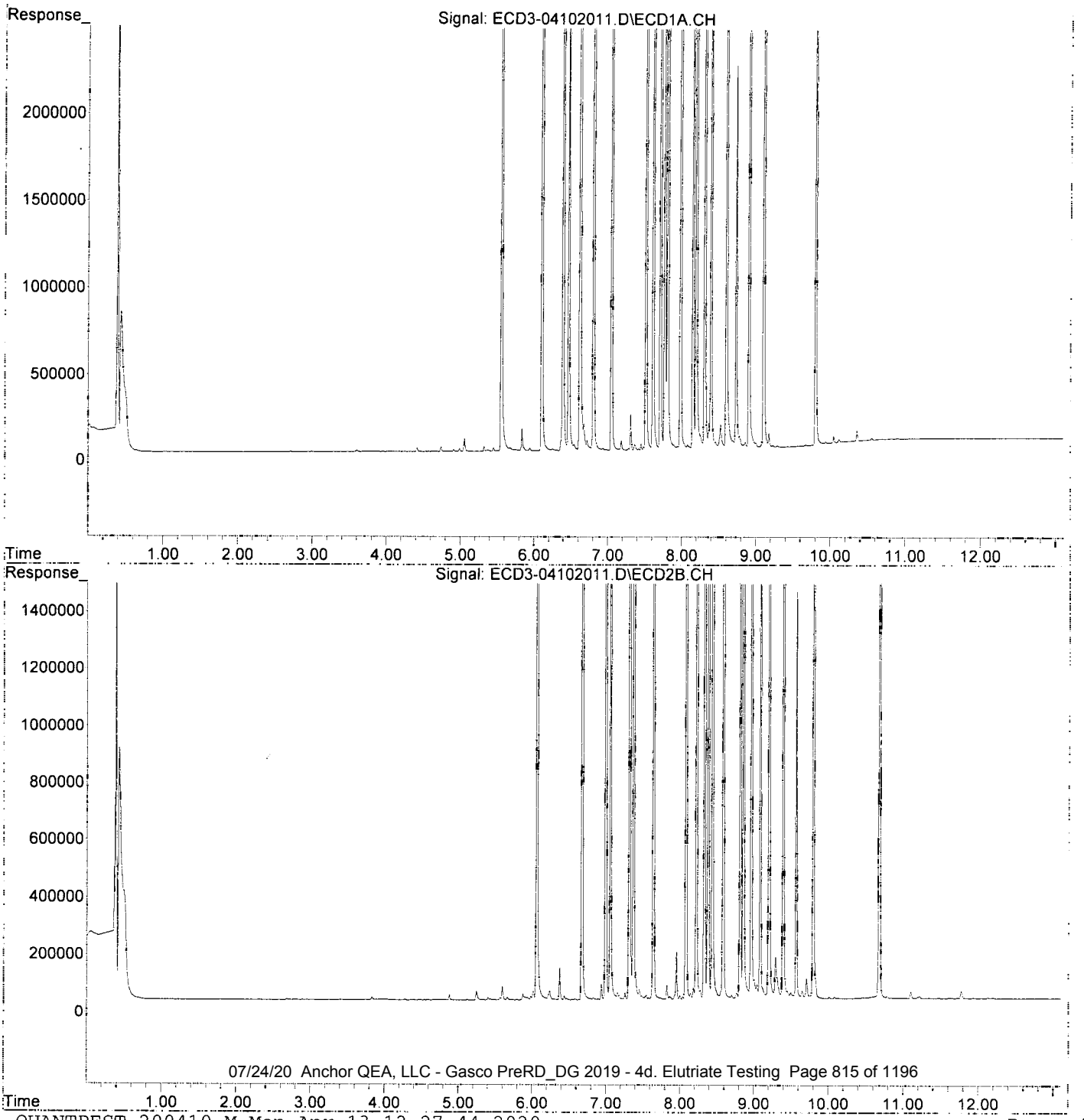
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.562	6.062	6908561	5350810	39.904	48.186
22) S	DCBP (S)	9.807	10.679	5172590	3177027	41.363	58.960 #
	Target Compounds						
2)	a-BHC	6.108	6.674	9856715	7382419	43.952	66.434 #
3)	g-BHC	6.395	6.994	8390299	6395054	42.241	72.694 #
4)	b-BHC	6.470	7.058	3275829	2819965	35.746	67.617 #
5)	Heptachlor	6.808	7.372	7786801	5432137	43.873	69.656 #
6)	d-BHC	6.624	7.316	7200622	5907599	36.942	66.832 #
7)	Aldrin	7.053	7.640	7862388	6276155	41.639	57.362
8)	Heptachlo...	7.520	8.082	7294406	5446885	41.794	59.479 #
9)	trans-Chl...	7.615	8.222	7465806	5551909	41.503	58.408 #
10)	cis-Chlor...	7.713	8.331	7133255	5236394	40.904	54.263
11)	Endosulfa...	7.814	8.382	6731758	4951225	41.900	55.234
12)	4,4'-DDE	7.772	8.437	7150986	5427651	40.107	57.811 #
13)	Dieldrin	7.987	8.584	7608328	5672261	42.479	56.678
14)	Endrin	8.154	8.814	6088856	4168787	45.538	58.545
15)	4,4'-DDD	8.200	8.856	5813915	4432731	38.939	69.945 #
16)	Endosulfa...	8.313	8.962	5720662	4306868	40.125	55.168
17)	4,4'-DDT	8.399	9.084	5090784	3189186	42.522	62.281 #
18)	Endrin Al...	8.607	9.201	4966378	3803916	40.003	56.190 #
19)	Endosulfa...	8.912	9.392	5681676	3917488	39.562	53.410
20)	Methoxychlor	8.738	9.568	2212679	1415590	36.013	53.293 #
21)	Endrin Ke...	9.109	9.797	6843717	4537747	41.760	62.082 #
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:05
Operator : MJB
Sample : 0D10031-CAL7
Misc : A20C183, AB 50 ppb
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:35:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Mar 09 12:29:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

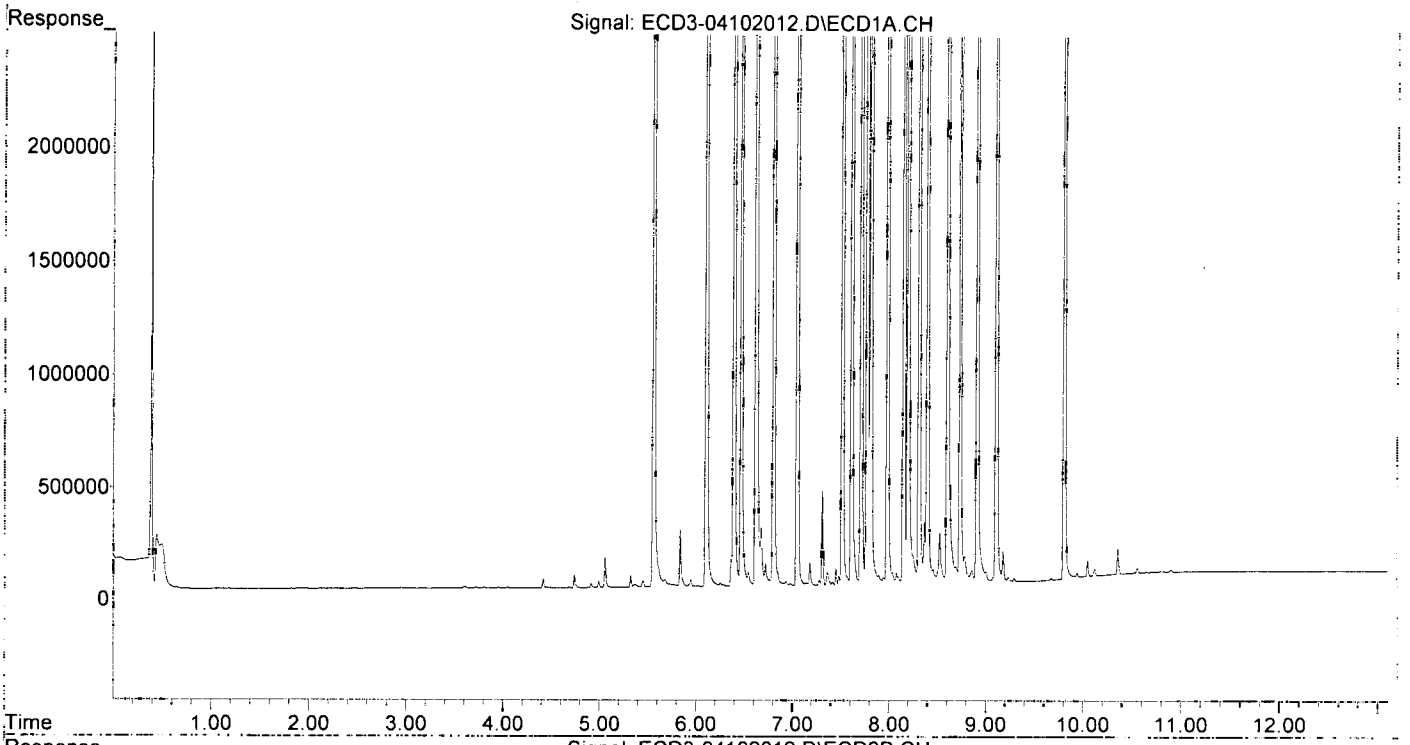
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.562	6.062	14508961	10942666	83.805	101.311	
22)	S	DCBP (S)	9.807	10.679	10967512	6496705	88.980	122.240	
		Target Compounds							
2)		a-BHC	6.108	6.673	20690311	15054052	92.261	135.470	#
3)		g-BHC	6.395	6.994	17852129	13117531	89.877	156.083	#
4)		b-BHC	6.470	7.058	7197743	5838273	78.541	147.476	#
5)		Heptachlor	6.808	7.371	16932118	10998035	95.400	147.404	#
6)		d-BHC	6.623	7.315	15654391	12327900	80.314	146.792	#
7)		Aldrin	7.052	7.640	16874638	12626262	89.368	115.400	
8)		Heptachlo...	7.518	8.081	15381959	11258743	88.132	122.943	
9)		trans-Chl...	7.614	8.222	15938657	11619020	88.604	125.506	#
10)		cis-Chlor...	7.712	8.330	15103841	10960125	86.609	113.577	
11)		Endosulfa...	7.813	8.382	14072419	10161726	87.590	113.360	
12)		4,4'-DDE	7.772	8.437	15292864	11367630	85.771	121.079	#
13)		Dieldrin	7.986	8.584	16300118	11853447	91.008	118.440	
14)		Endrin	8.154	8.814	12878104	8690942	96.814	122.053	
15)		4,4'-DDD	8.198	8.856	12428792	9158353	83.242	150.088	#
16)		Endosulfa...	8.312	8.962	12147287	8759068	85.202	112.197	
17)		4,4'-DDT	8.398	9.085	11118672	7015904	92.872	137.012	#
18)		Endrin Al...	8.606	9.201	10213956	7859690	83.099	117.588	#
19)		Endosulfa...	8.911	9.393	11882557	8368447	82.740	114.332	
20)		Methoxychlor	8.736	9.568	5195602	3310270	84.561	124.622	#
21)		Endrin Ke...	9.109	9.797	13903939	9234850	84.841	126.344	#
23)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
24)		Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d	
26)		2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
27)		trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d	
28)		2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
29)		2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
30)		cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d	
31)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

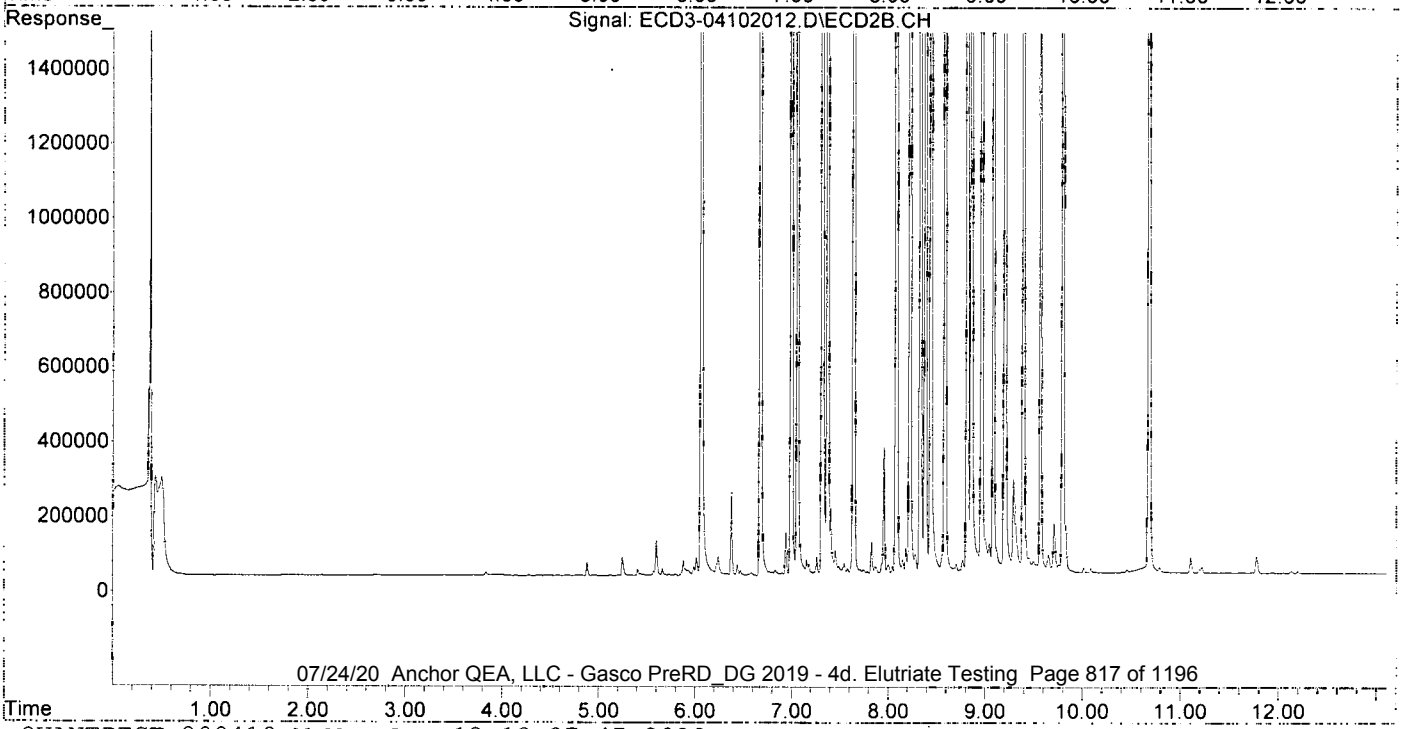
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:22
Operator : MJB
Sample : 0D10031-CAL8
Misc : A20C184, AB 100 ppb
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:40:41 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:41:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

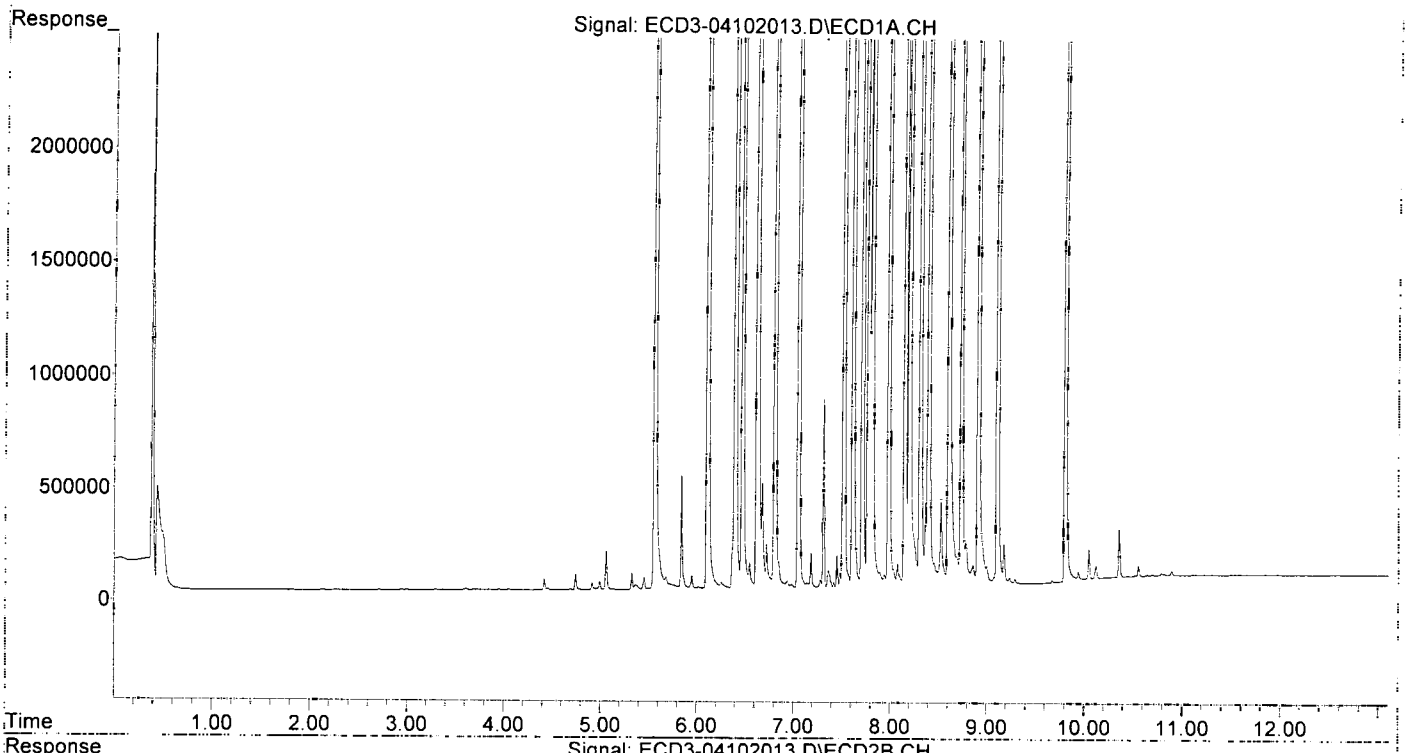
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.564	6.062	28992333	20414502	167.462	198.706	
22)	S DCBP (S)	9.807	10.679	22430618	12440663	186.828	239.601	
	Target Compounds							
2)	a-BHC	6.110	6.674	42454244	28719329	189.309	258.442	
3)	g-BHC	6.395	6.995	36042538	24936908	181.457	327.639	#
4)	b-BHC	6.470	7.057	14896865	11368661	162.553	324.645	#
5)	Heptachlor	6.809	7.372	34291575	22169726	193.208	331.977	#
6)	d-BHC	6.623	7.316	33683152	23989125	172.810	322.140	#
7)	Aldrin	7.053	7.640	33769142	23855766	178.842	218.035	
8)	Heptachlo...	7.519	8.081	29992904	21270880	171.846	232.274	
9)	trans-Chl...	7.615	8.223	31666318	21709173	176.034	245.748	
10)	cis-Chlor...	7.713	8.331	30069367	20913495	172.426	216.722	
11)	Endosulfa...	7.813	8.382	28839578	19228923	179.505	214.510	
12)	4,4'-DDE	7.772	8.437	31314990	21652854	175.632	230.630	
13)	Dieldrin	7.987	8.584	32386470	22315768	180.823	222.981	
14)	Endrin	8.154	8.814	27093743	17588255	202.630	247.004	
15)	4,4'-DDD	8.198	8.856	26222383	17432728	175.824	308.730	#
16)	Endosulfa...	8.312	8.961	25140767	17688125	176.339	226.571	
17)	4,4'-DDT	8.398	9.084	24723061	15058756	206.506	294.078	#
18)	Endrin Al...	8.606	9.201	21324700	15325432	176.437	234.234	
19)	Endosulfa...	8.912	9.392	23987343	16356168	167.026	223.725	
20)	Methoxychlor	8.736	9.567	11463022	7310519	186.567	275.221	#
21)	Endrin Ke...	9.109	9.797	28865829	18211713	176.138	249.159	#
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d	
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d	
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d	
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d	
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d	
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d	
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

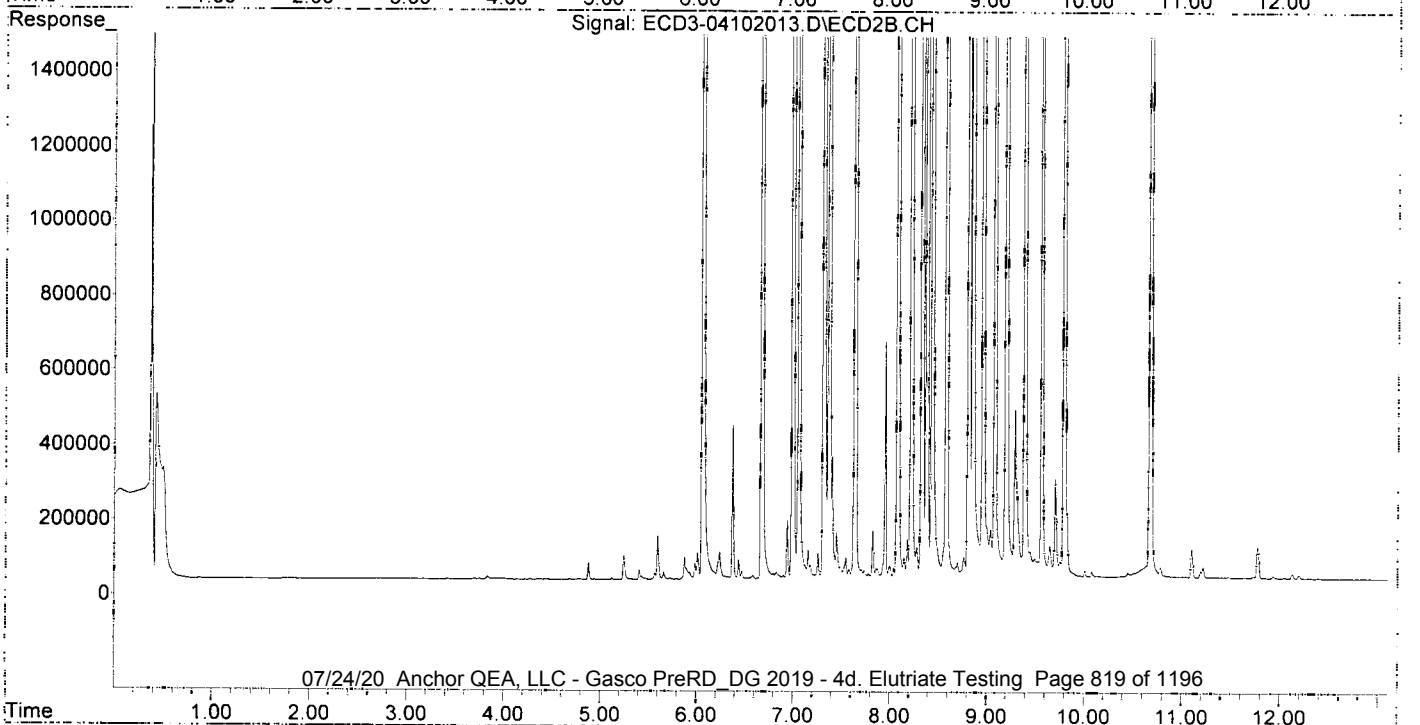
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 14:40
Operator : MJB
Sample : 0D10031-CAL9
Misc : A20C177, AB 200 ppb
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:41:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4.13.20

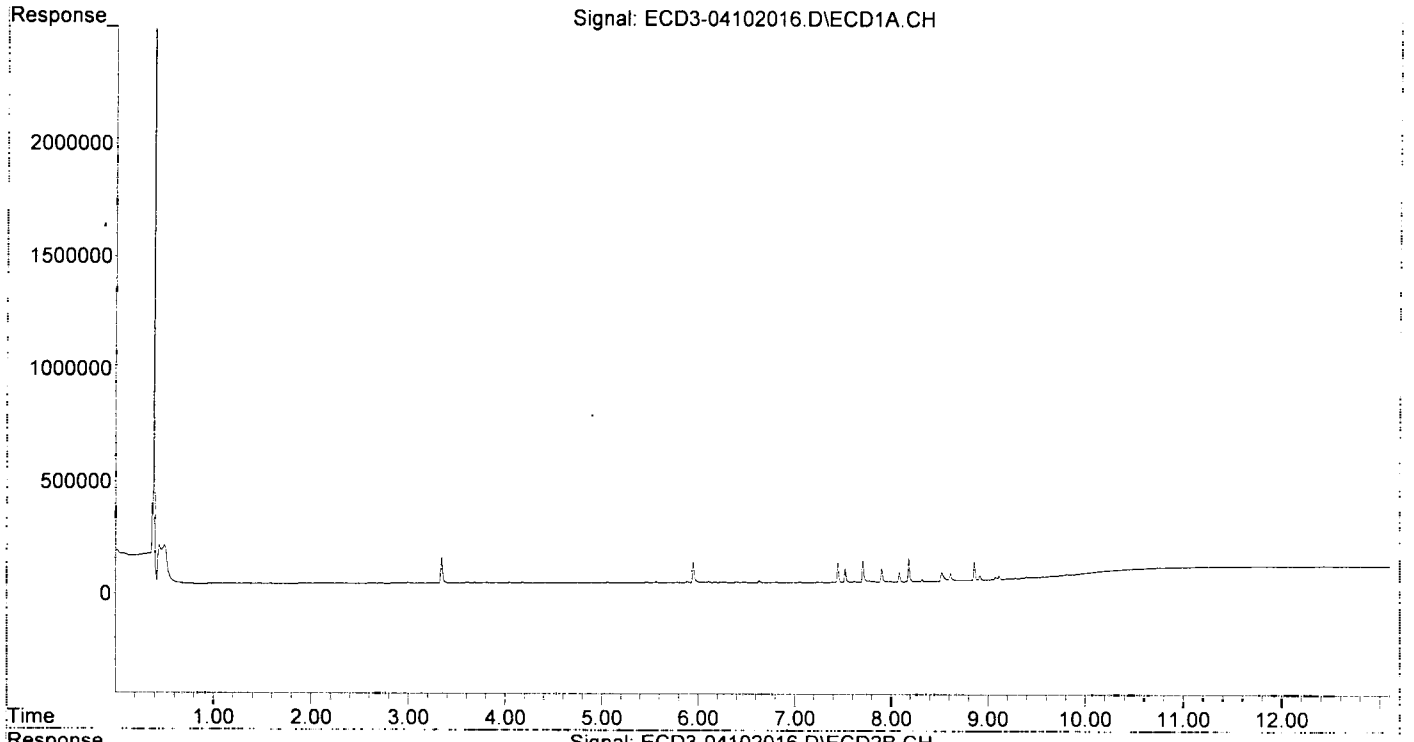
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.341	3.736	112302	112755	0.606	0.686
24)	Hexachlor...	5.948	6.532	90891	78616	0.504	0.496
25)	Oxychlordane	7.448	8.010	87083	67961	0.556	0.737
26)	2,4'-DDE	7.523	8.216	59883	54754	0.491	0.698 #
27)	trans-Non...	7.705	8.287	97265	76561	0.549	0.675
28)	2,4'-DDD	7.900	8.592	56544	50583	0.521	0.754 #
29)	2,4'-DDT	8.083	8.817	41657	32434	0.390	0.519
30)	cis-Nonac...	8.181	8.857	105931	83146	0.545	0.775 #
31)	Mirex	8.858	9.790	82399	60436	0.564	0.787
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

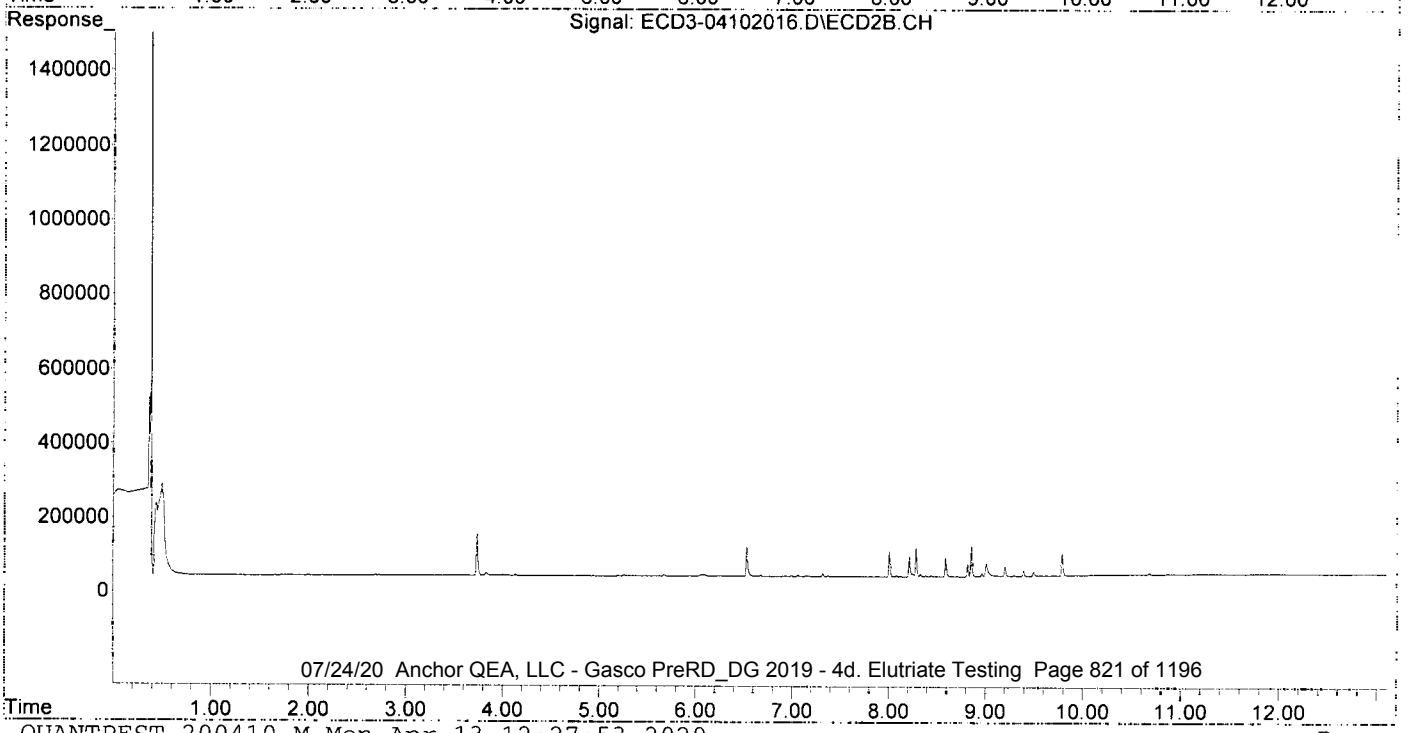
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:31
Operator : MJB
Sample : 0D10031-CALA
Misc : A20D135, 9-42 0.5 ppb
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:03 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

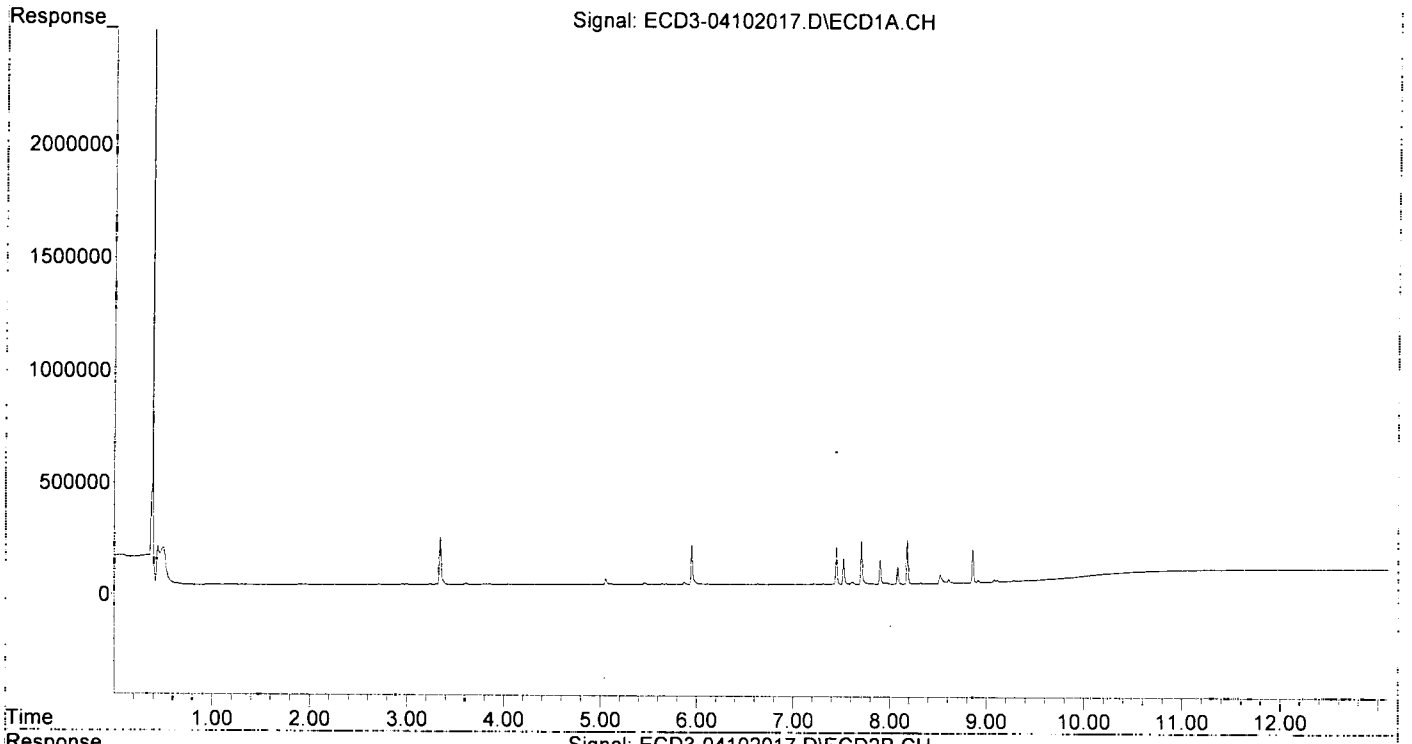
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)	b-BHC	0.000	0.000	0	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...	3.342	3.736	210953	210162	1.138	1.352	
24)	Hexachlor...	5.948	6.532	171487	145117	0.950	1.074	
25)	Oxychlordane	7.447	8.010	167657	131841	1.071	1.431	
26)	2,4'-DDE	7.522	8.216	114378	102014	0.937	1.300	
27)	trans-Non...	7.706	8.287	189735	145443	1.070	1.431	
28)	2,4'-DDD	7.899	8.593	106028	93331	0.977	1.580	#
29)	2,4'-DDT	8.083	8.817	77977	56936	0.731	1.040	#
30)	cis-Nonac...	8.181	8.858	197292	153334	1.015	1.429	#
31)	Mirex	8.858	9.790	147950	100894	1.160	1.502	
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

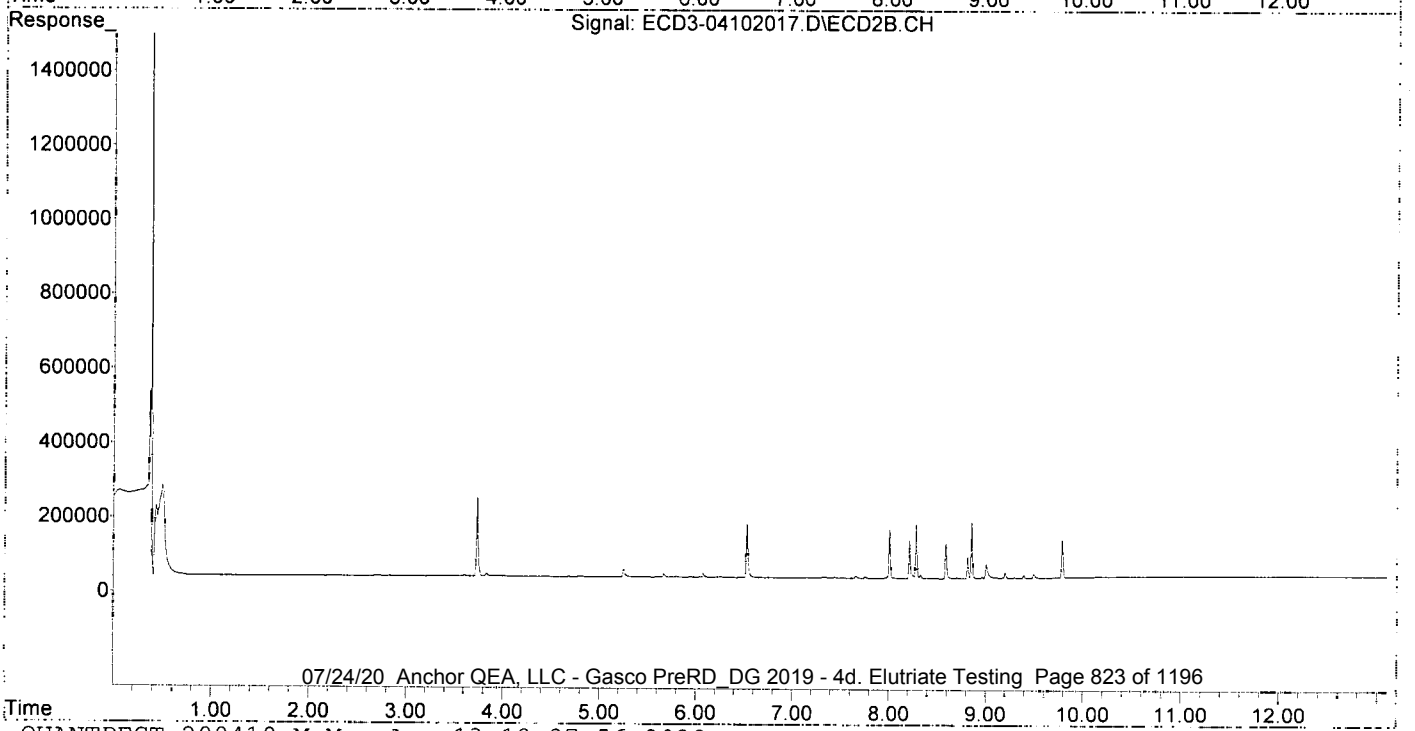
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 15:48
Operator : MJB
Sample : 0D10031-CALB
Misc : A20C353, 9-42 1 ppb
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:44:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

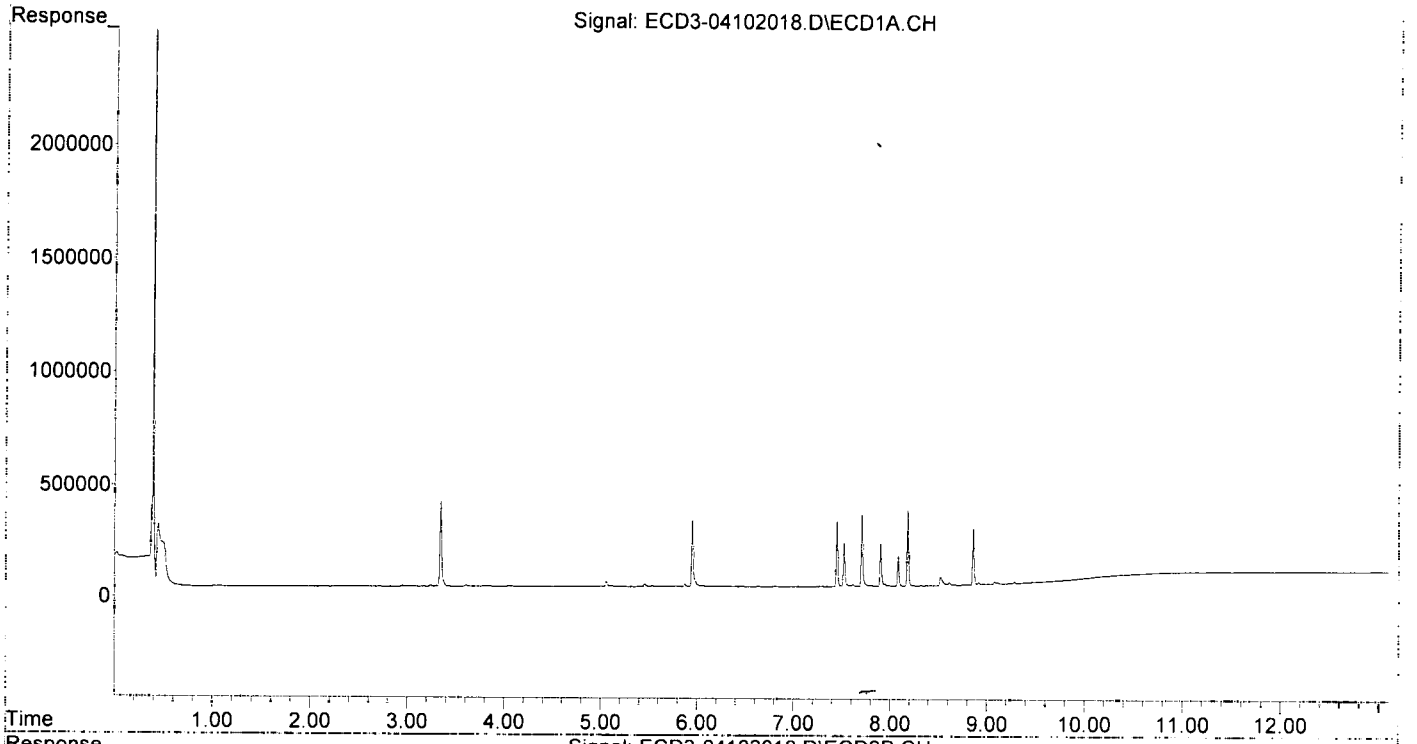
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)		b-BHC	0.000	0.000	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...	3.342	3.736	381441	372830	2.058	2.466	
24)		Hexachlor...	5.948	6.533	294999	248384	1.635	1.972	
25)		Oxychlordane	7.448	8.011	296003	226120	1.892	2.454	
26)		2,4'-DDE	7.523	8.216	197703	175821	1.620	2.241	
27)		trans-Non...	7.706	8.287	319860	251420	1.804	2.594	#
28)		2,4'-DDD	7.900	8.592	187358	158108	1.726	2.832	#
29)		2,4'-DDT	8.083	8.818	133977	96604	1.256	1.884	#
30)		cis-Nonac...	8.181	8.858	342161	262929	1.760	2.450	
31)		Mirex	8.858	9.790	248901	167144	2.077	2.673	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

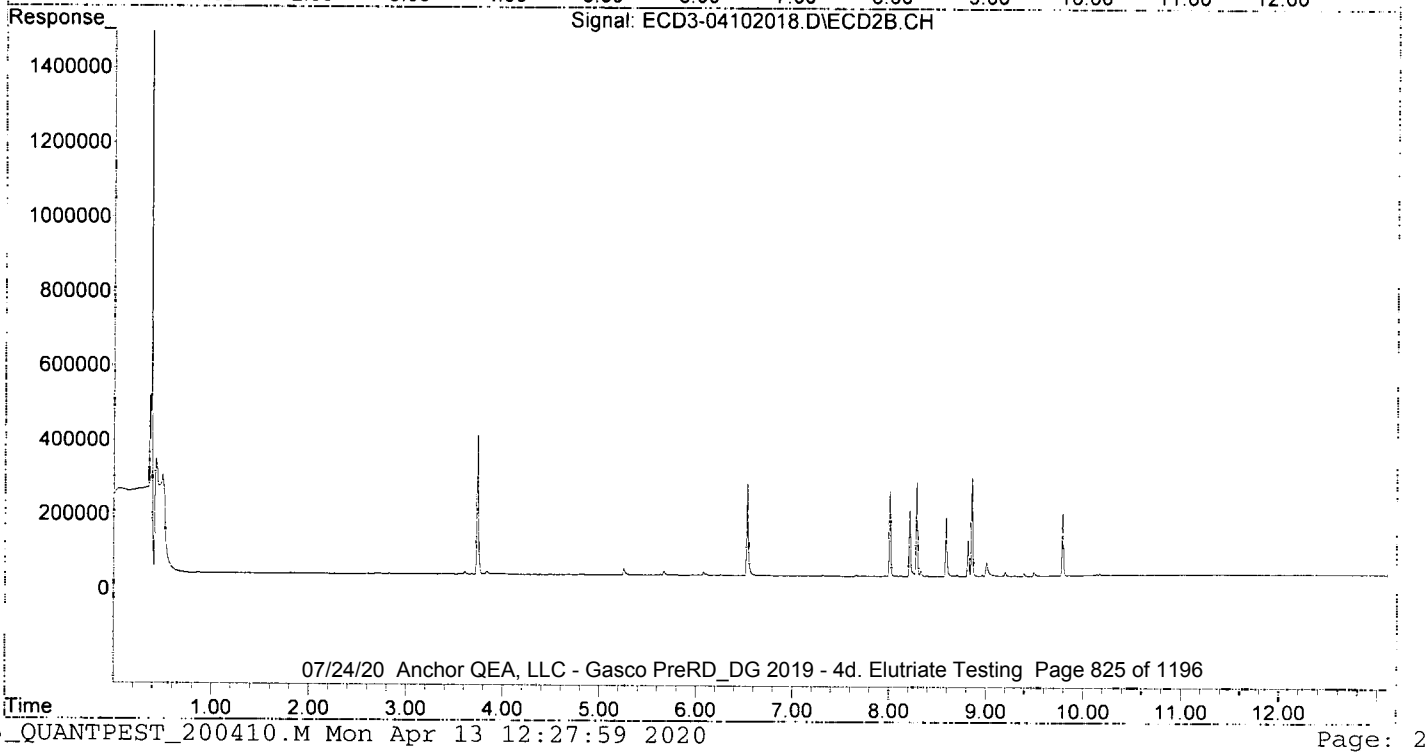
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:06
Operator : MJB
Sample : 0D10031-CALC
Misc : A20C354, 9-42 2 ppb
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:17 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/22

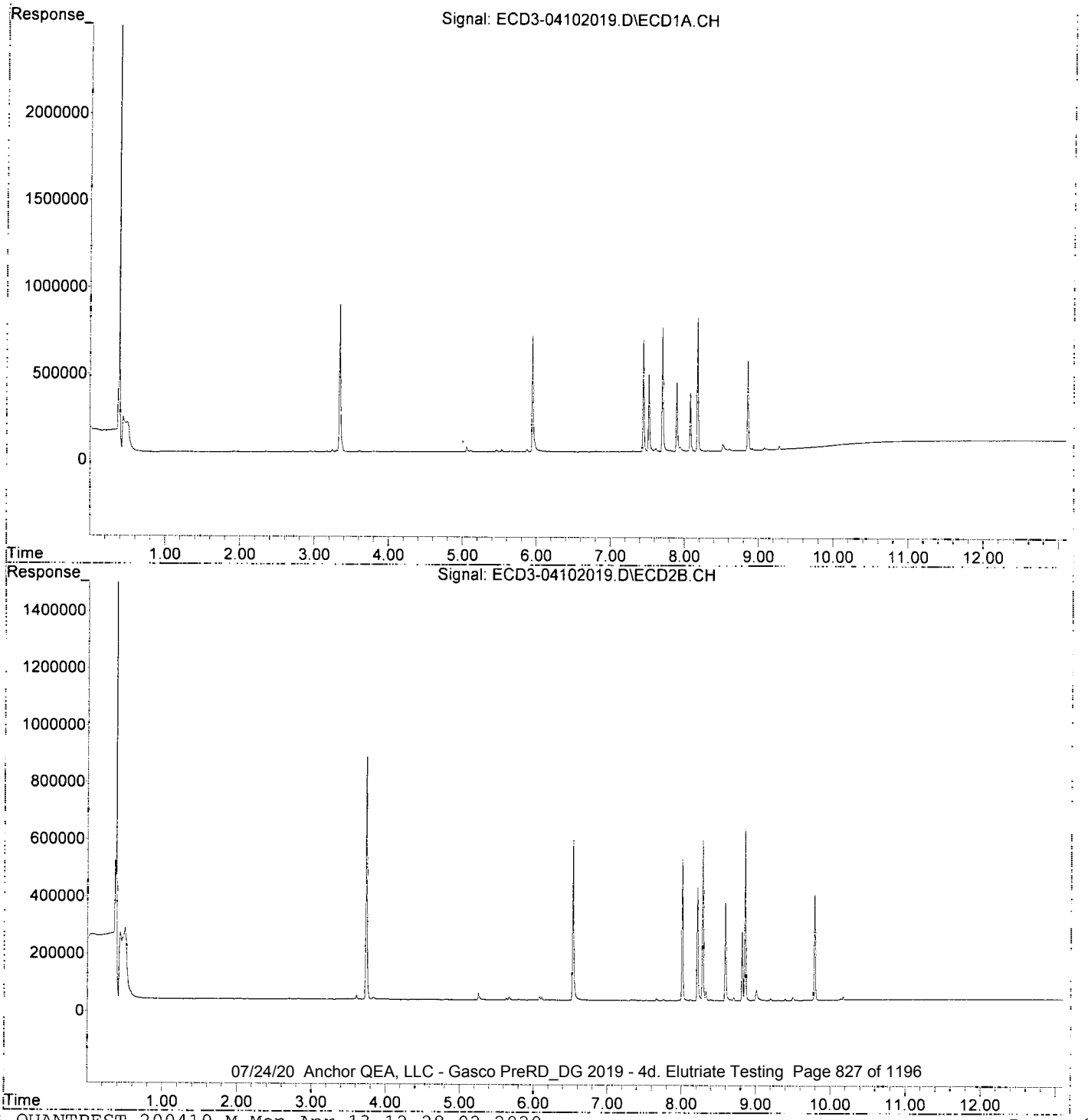
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.342	3.736	857802	848292	4.629	5.732
24)	Hexachlor...	5.947	6.532	674330	553413	3.736	4.630
25)	Oxychlordane	7.447	8.010	646772	490301	4.133	5.320
26)	2,4'-DDE	7.522	8.216	448996	395444	3.679	5.041
27)	trans-Non...	7.705	8.286	722033	557194	4.072	5.951 #
28)	2,4'-DDD	7.899	8.591	402442	342154	3.708	6.395 #
29)	2,4'-DDT	8.082	8.817	343961	240393	3.224	4.941 #
30)	cis-Nonac...	8.181	8.857	779953	594209	4.012	5.537
31)	Mirex	8.858	9.790	521342	369585	4.553	6.253
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:23
Operator : MJB
Sample : 0D10031-CALD
Misc : A20C355, 9-42 5 ppb
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:45:56 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:46:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

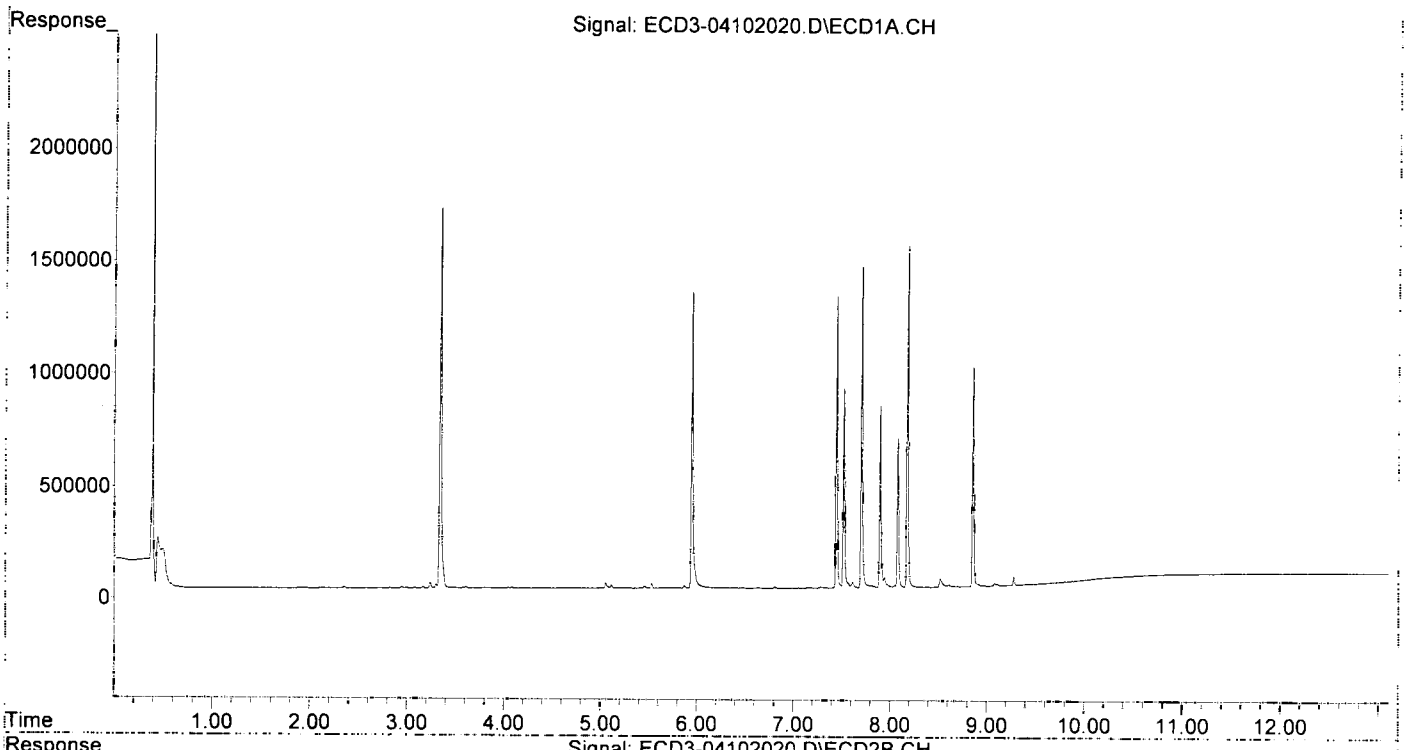
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.342	3.736	1689587	1632647	9.117	11.159
24)	Hexachlor...	5.947	6.532	1319038	1101770	7.309	9.424
25)	Oxychlordane	7.447	8.011	1300026	992994	8.307	10.775
26)	2,4'-DDE	7.522	8.217	889087	776105	7.285	9.894
27)	trans-Non...	7.705	8.287	1431403	1088724	8.072	11.786 #
28)	2,4'-DDD	7.899	8.592	809760	665503	7.462	12.672 #
29)	2,4'-DDT	8.082	8.818	665398	472159	6.237	9.864 #
30)	cis-Nonac...	8.181	8.858	1524562	1133487	7.842	10.563
31)	Mirex	8.858	9.790	976519	672336	8.691	11.607
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

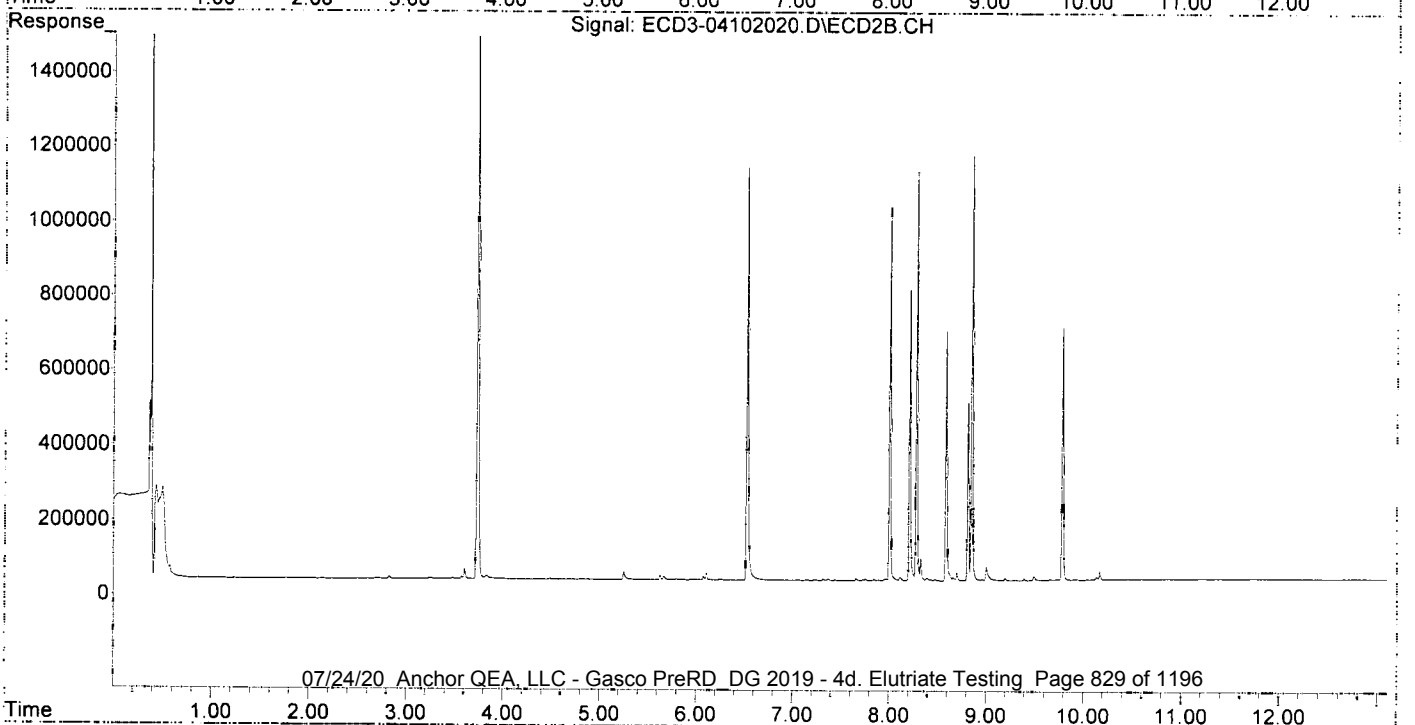
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:40
Operator : MJB
Sample : 0D10031-CALE
Misc : A20C356, 9-42 10 ppb
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:46:28 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

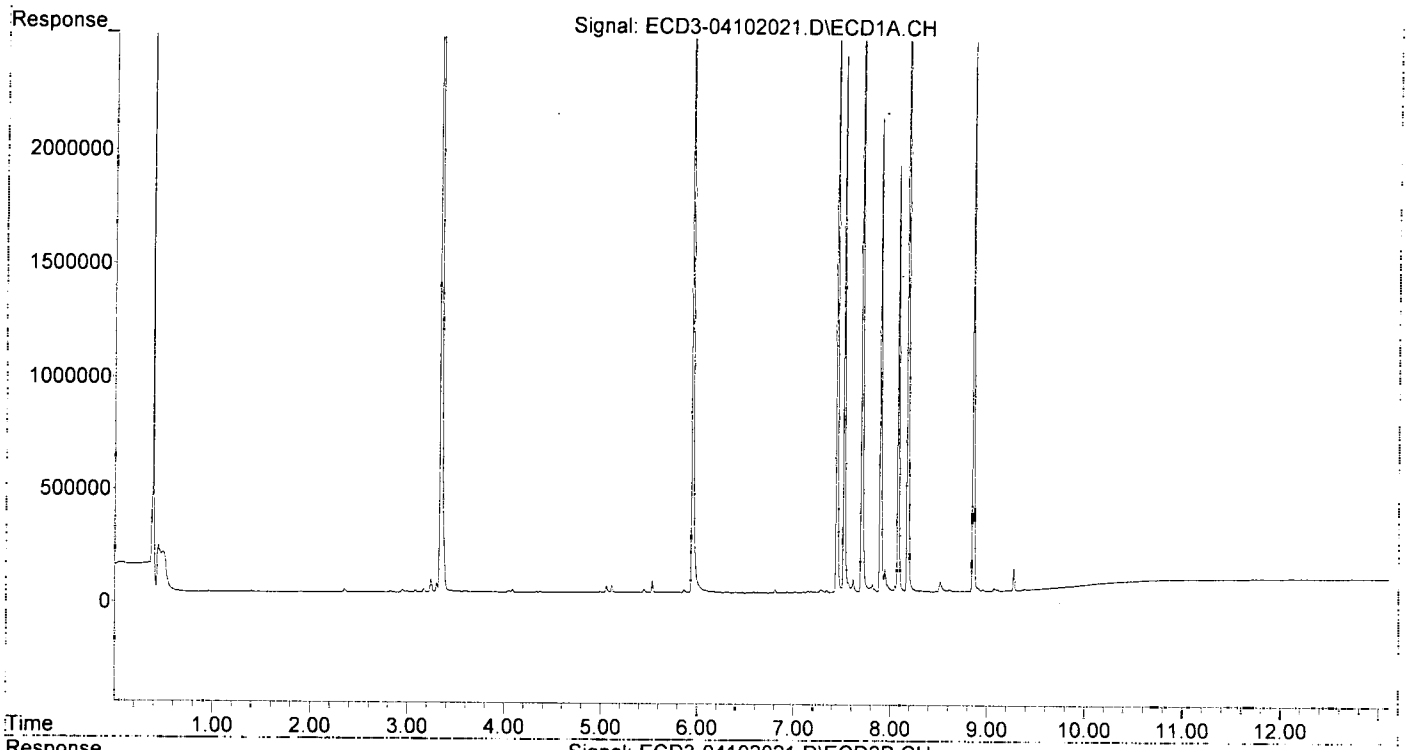
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d	
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d	
4)		b-BHC	0.000	0.000	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...	3.342	3.736	4236498	3836415	22.860	26.666	
24)		Hexachlor...	5.948	6.532	3410831	2741174	18.899	23.878	
25)		Oxychlordane	7.446	8.009	3280717	2462430	20.964	26.720	
26)		2,4'-DDE	7.519	8.215	2370241	1938260	19.420	24.709	
27)		trans-Non...	7.704	8.286	3612570	2768485	20.373	30.239	#
28)		2,4'-DDD	7.897	8.591	2101228	1648579	19.362	31.886	#
29)		2,4'-DDT	8.081	8.817	1890884	1331674	17.725	28.064	#
30)		cis-Nonac...	8.179	8.856	3931964	2939943	20.226	27.396	
31)		Mirex	8.856	9.789	2445934	1721066	22.065	30.164	
32)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
33)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
34)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d	
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d	

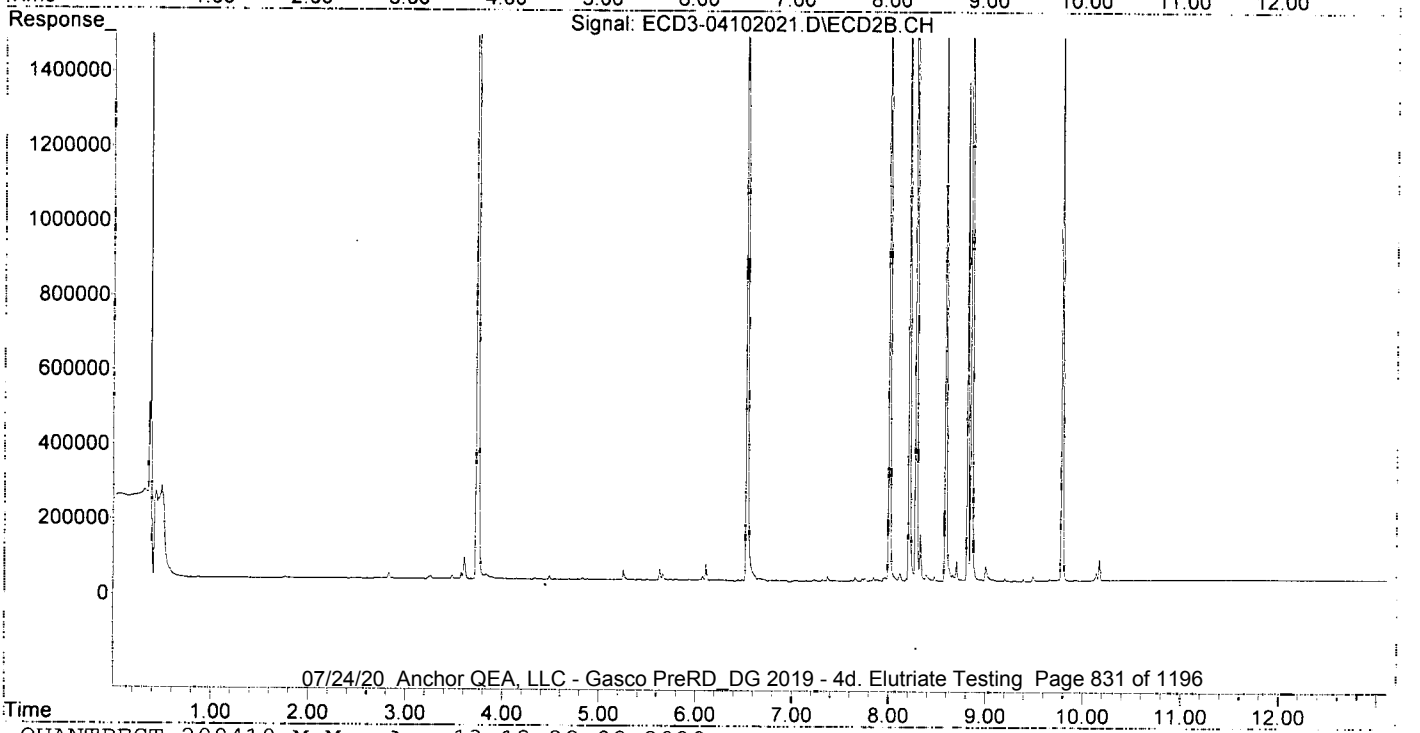
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 16:57
Operator : MJB
Sample : 0D10031-CALF
Misc : A20C357, 9-42 25 ppb
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:02 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:43:04 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

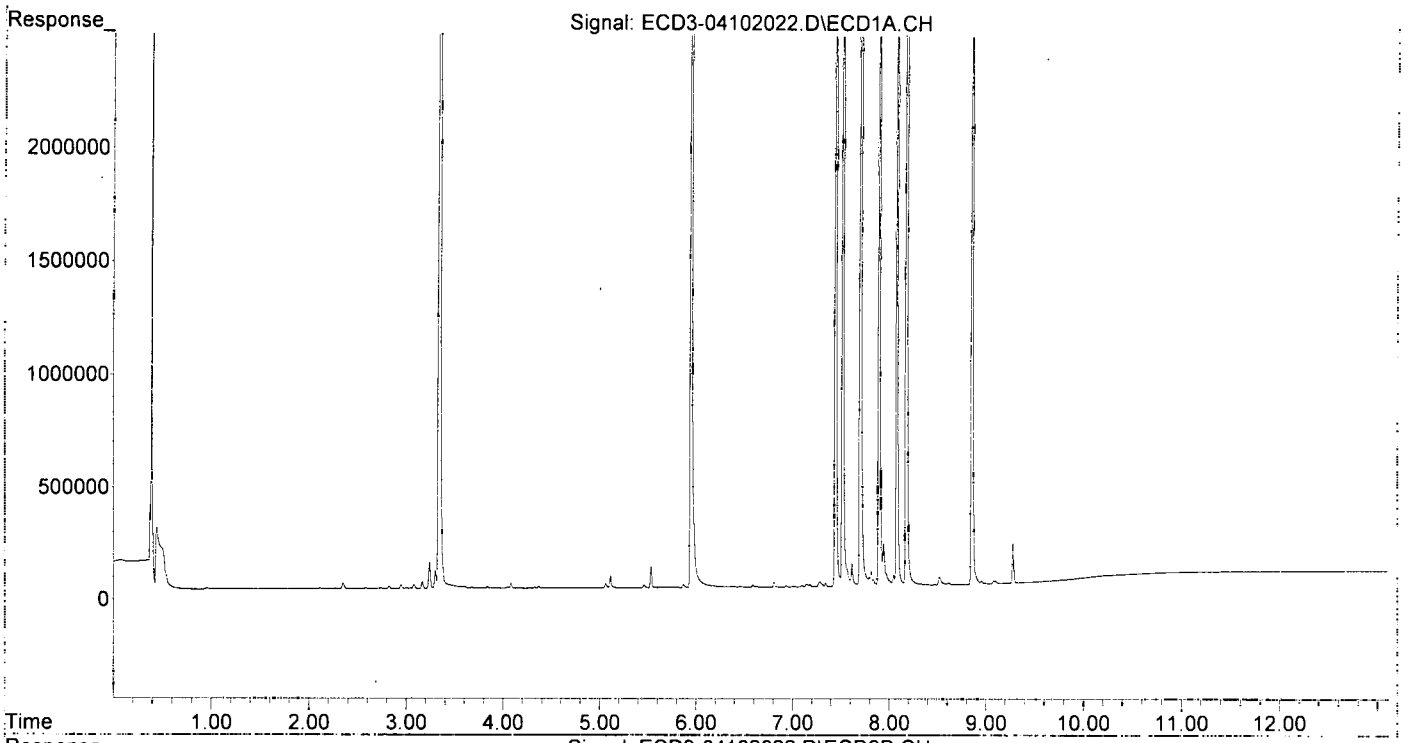
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.342	3.736	8735674	7661028	47.138	54.568
24)	Hexachlor...	5.948	6.532	6661991	5176901	36.914	45.707
25)	Oxychlordane	7.446	8.010	6240780	4745169	39.880	51.490
26)	2,4'-DDE	7.520	8.215	4518917	3659885	37.025	46.656
27)	trans-Non...	7.703	8.286	6909845	5248360	38.968	57.508 #
28)	2,4'-DDD	7.897	8.591	4001953	3205195	36.876	62.731 #
29)	2,4'-DDT	8.081	8.817	3806076	2644918	35.678	55.701 #
30)	cis-Nonac...	8.180	8.857	7558026	5676373	38.879	52.896
31)	Mirex	8.856	9.789	4722341	3205930	42.830	56.465
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

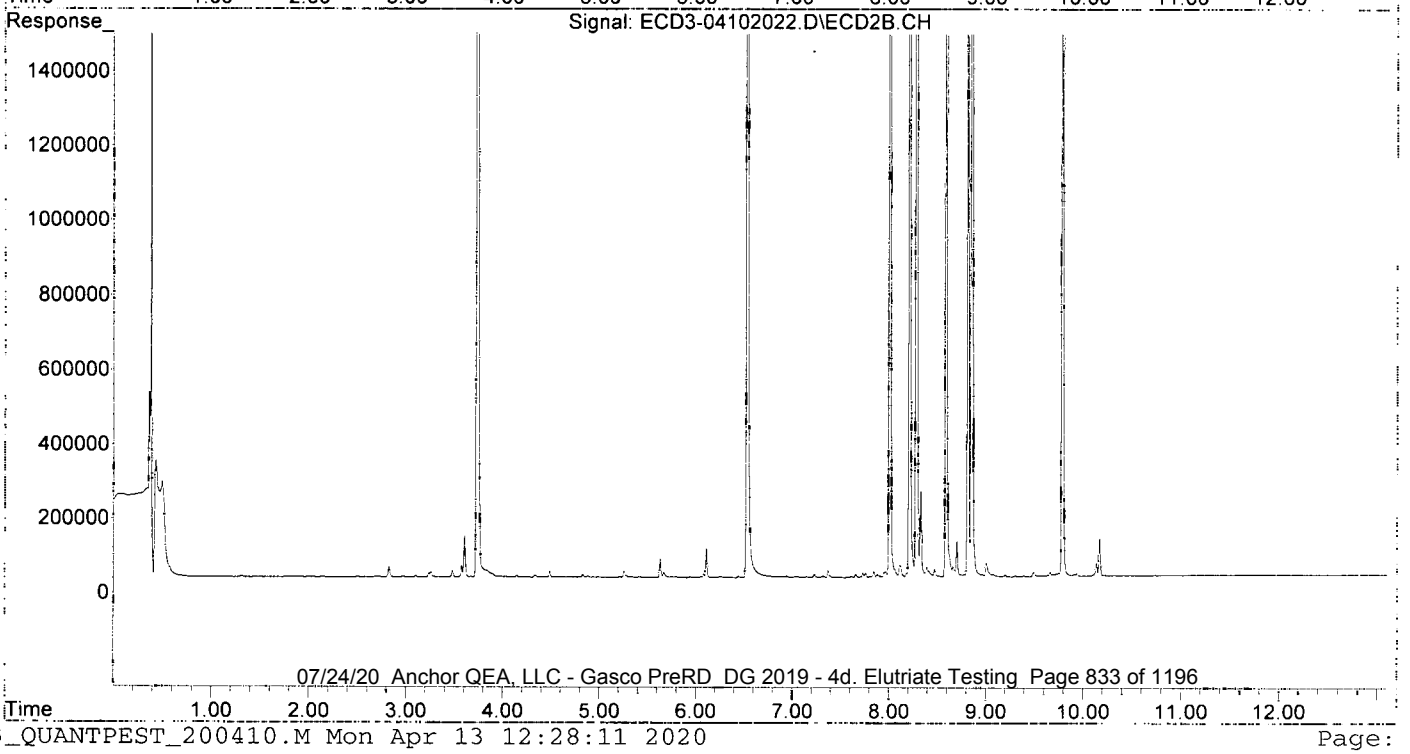
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:14
Operator : MJB
Sample : 0D10031-CALG
Misc : A20C358, 9-42 50 ppb
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:43:04 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:35:50 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

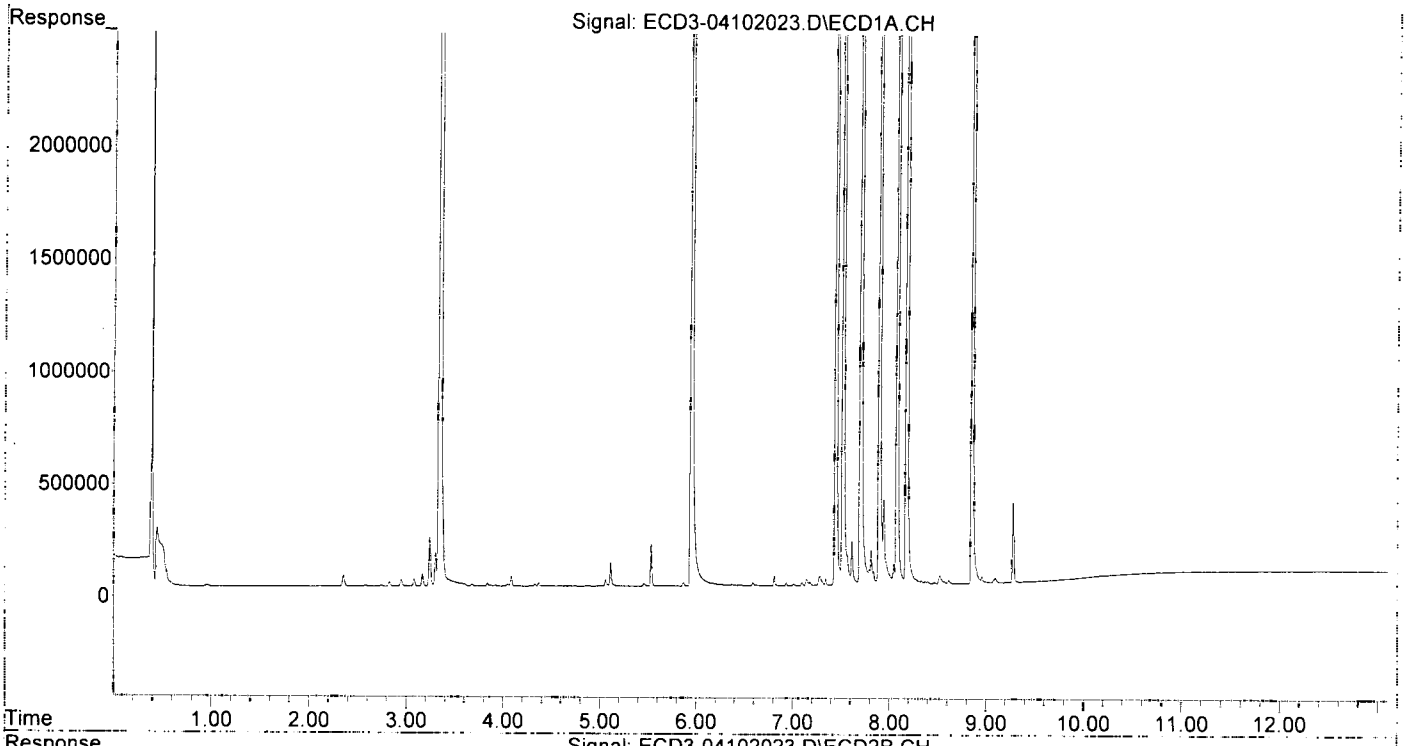
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.342	3.736	17207142	14843032	92.850	110.997
24)	Hexachlor...	5.948	6.532	13905902	10342257	77.052	93.507
25)	Oxychlordane	7.446	8.009	13063239	9423897	83.477	102.259
26)	2,4'-DDE	7.519	8.214	9420136	7319258	77.183	93.305
27)	trans-Non...	7.703	8.285	14841913	10461112	83.701	114.939
28)	2,4'-DDD	7.896	8.591	8200834	6389450	75.567	127.538 #
29)	2,4'-DDT	8.081	8.817	7906836	5426818	74.118	113.580 #
30)	cis-Nonac...	8.179	8.857	15616314	11378214	80.332	106.030
31)	Mirex	8.856	9.789	9796794	6667267	89.319	117.899
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

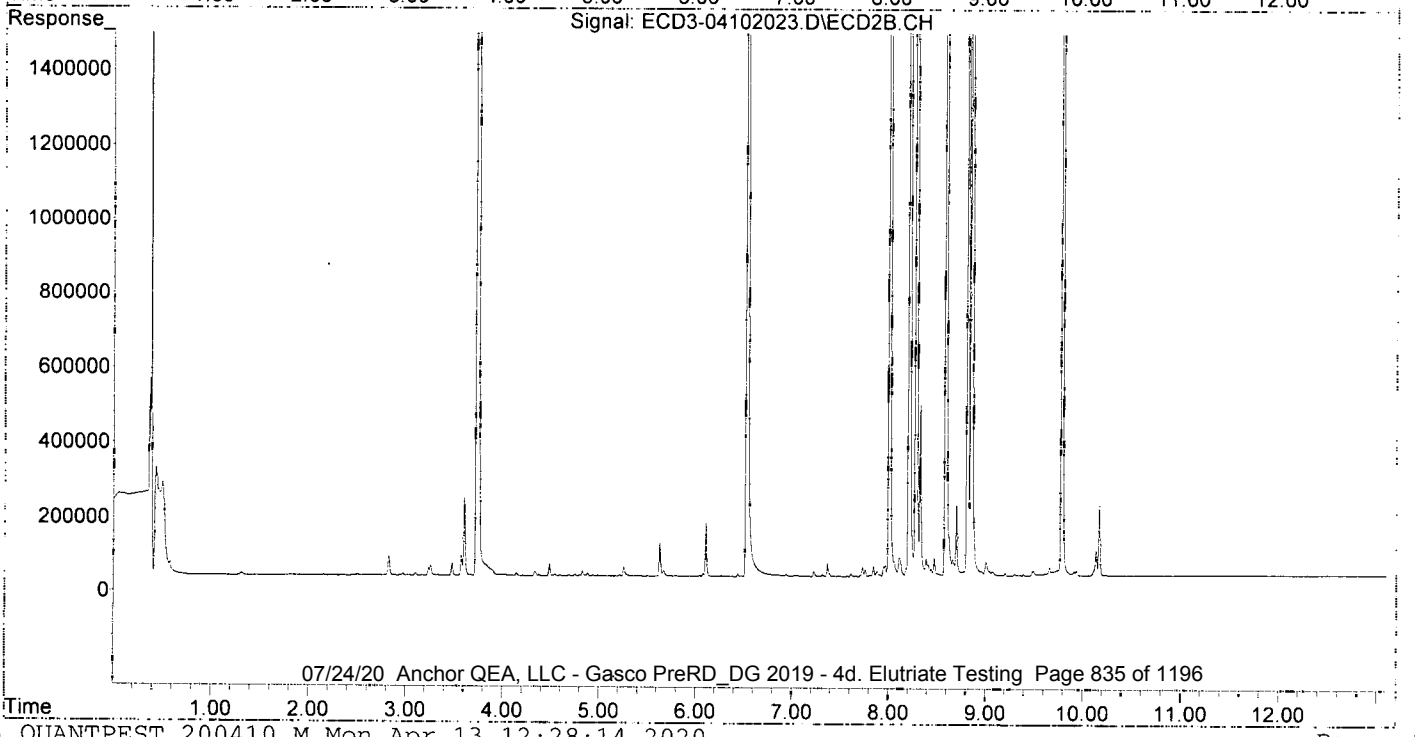
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:31
Operator : MJB
Sample : 0D10031-CALH
Misc : A20C359, 9-42 100 ppb
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:47:36 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:48:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

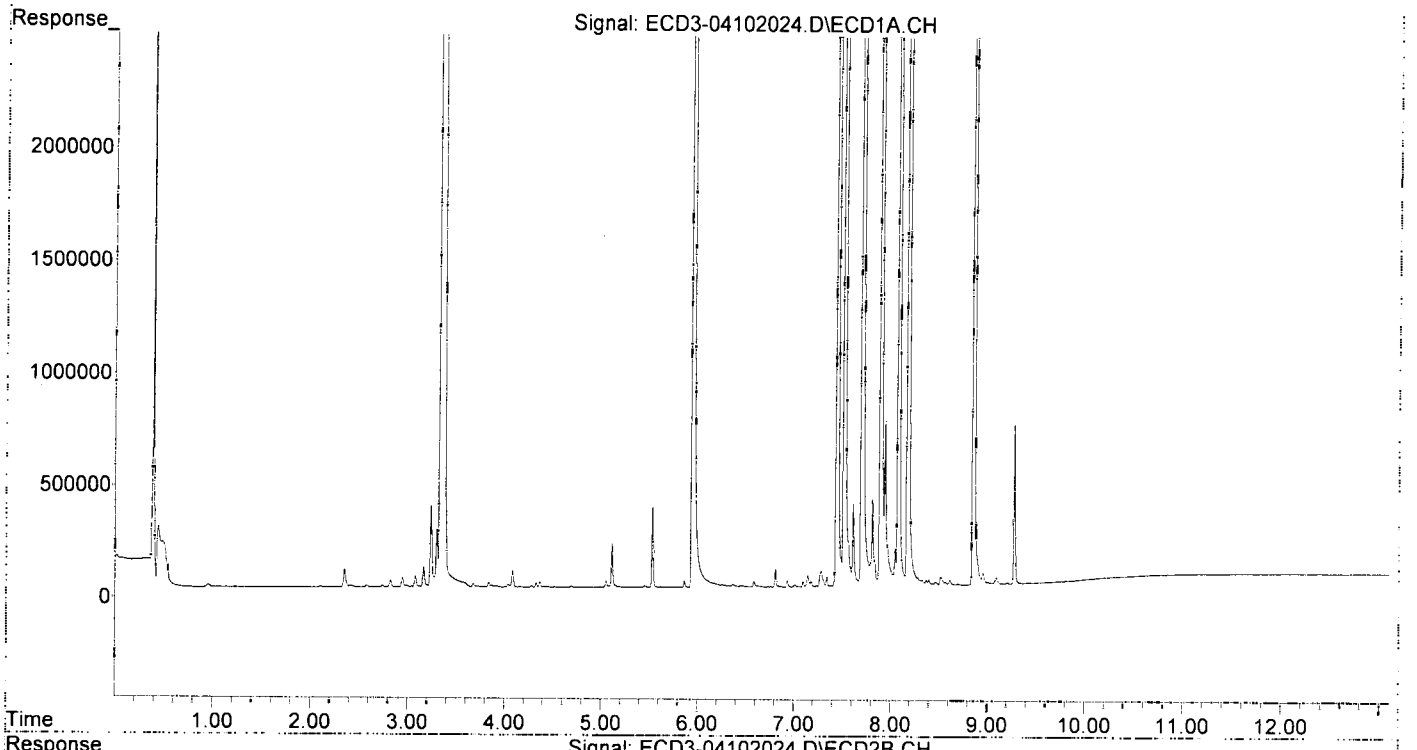
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.343	3.737	30654926	25097902	165.414	204.330
24)	Hexachlor...	5.948	6.533	27917200	20106640	154.688	190.431
25)	Oxychlordane	7.446	8.010	26694991	18880326	170.586	204.872
26)	2,4'-DDE	7.519	8.215	19110459	14263135	156.580	181.826
27)	trans-Non...	7.703	8.286	29240286	20044391	164.900	220.913
28)	2,4'-DDD	7.896	8.591	16682003	12705250	153.717	263.850 #
29)	2,4'-DDT	8.081	8.817	16615671	11384733	155.753	234.665 #
30)	cis-Nonac...	8.179	8.856	31802143	21372951	163.593	199.167
31)	Mirex	8.856	9.790	19600089	12929032	179.938	229.477
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

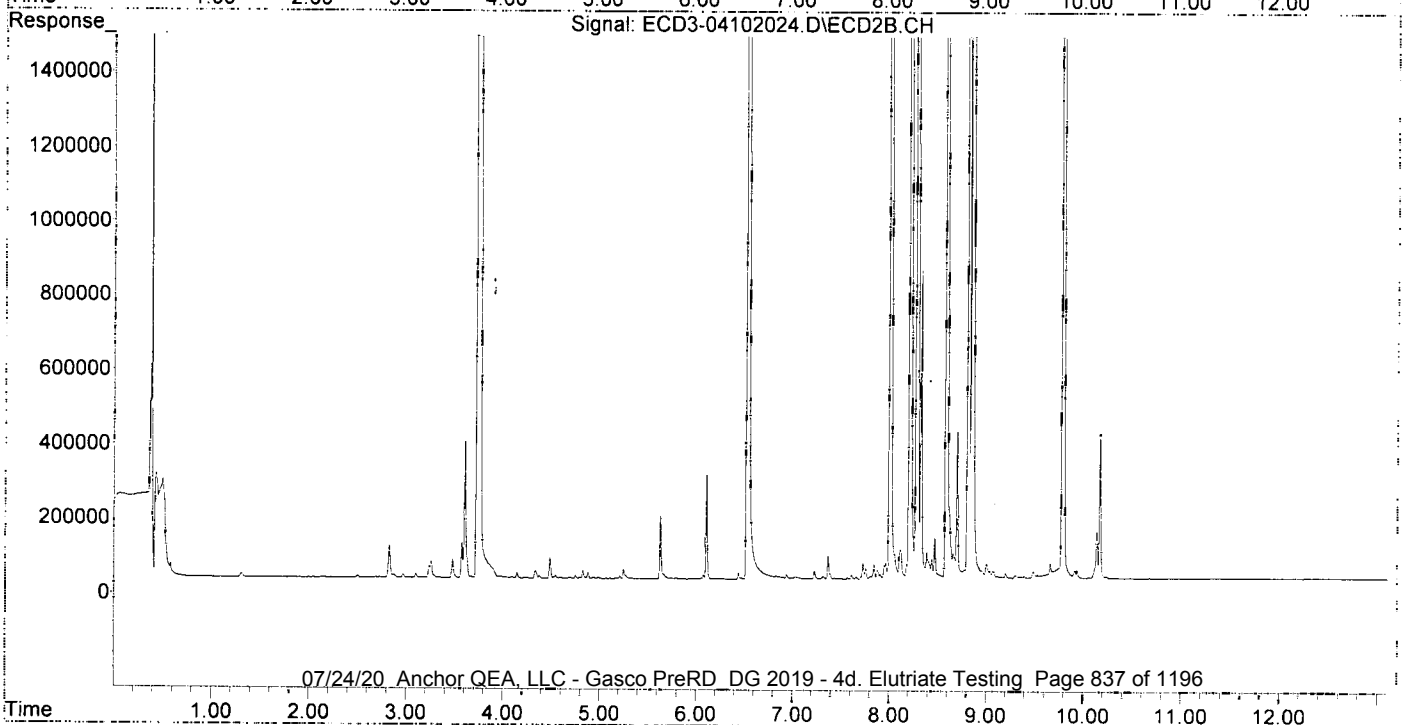
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 17:49
Operator : MJB
Sample : 0D10031-CALI
Misc : A20C352, 9-42 200 ppb
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:48:11 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:40
Operator : MJB
Sample : 0D10031-CALJ
Misc : A20D136, CHLOR 10 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:50:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/12/20

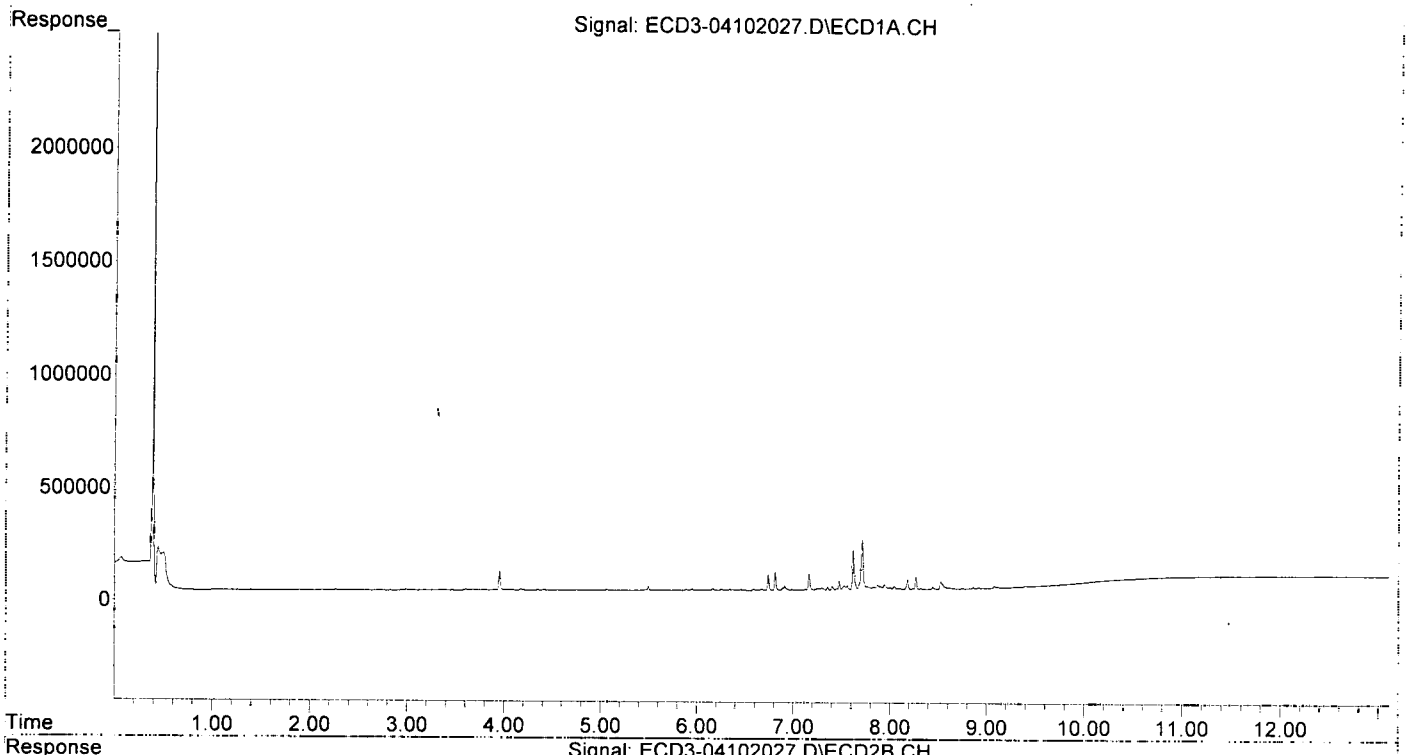
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.617	8.222	181927	156594	9.420	12.297
33)	Chlordane...	7.711	8.331	224425	138950	10.196	12.869
34)	Chlordane...	8.267	9.001	55530	51394	9.237	6.926
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

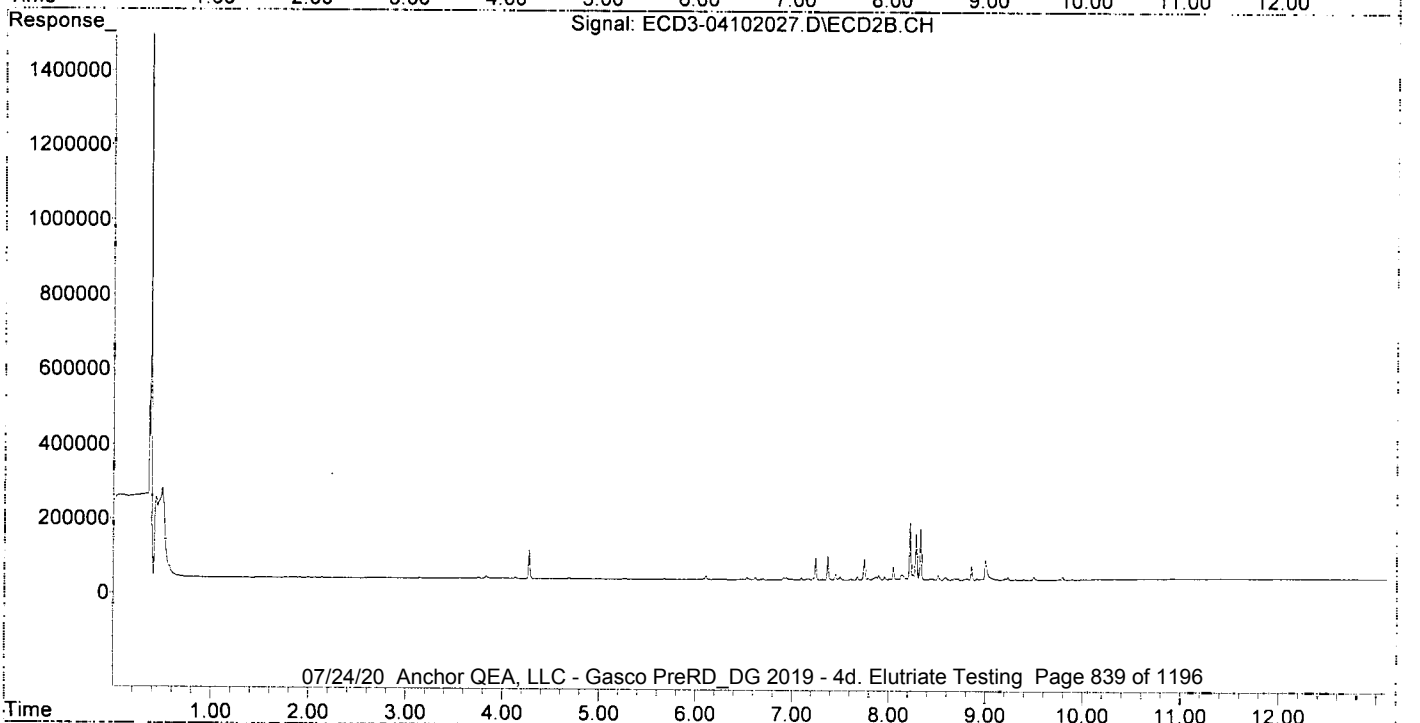
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:40
Operator : MJB
Sample : 0D10031-CALJ
Misc : A20D136, CHLOR 10 ppb
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:50:44 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

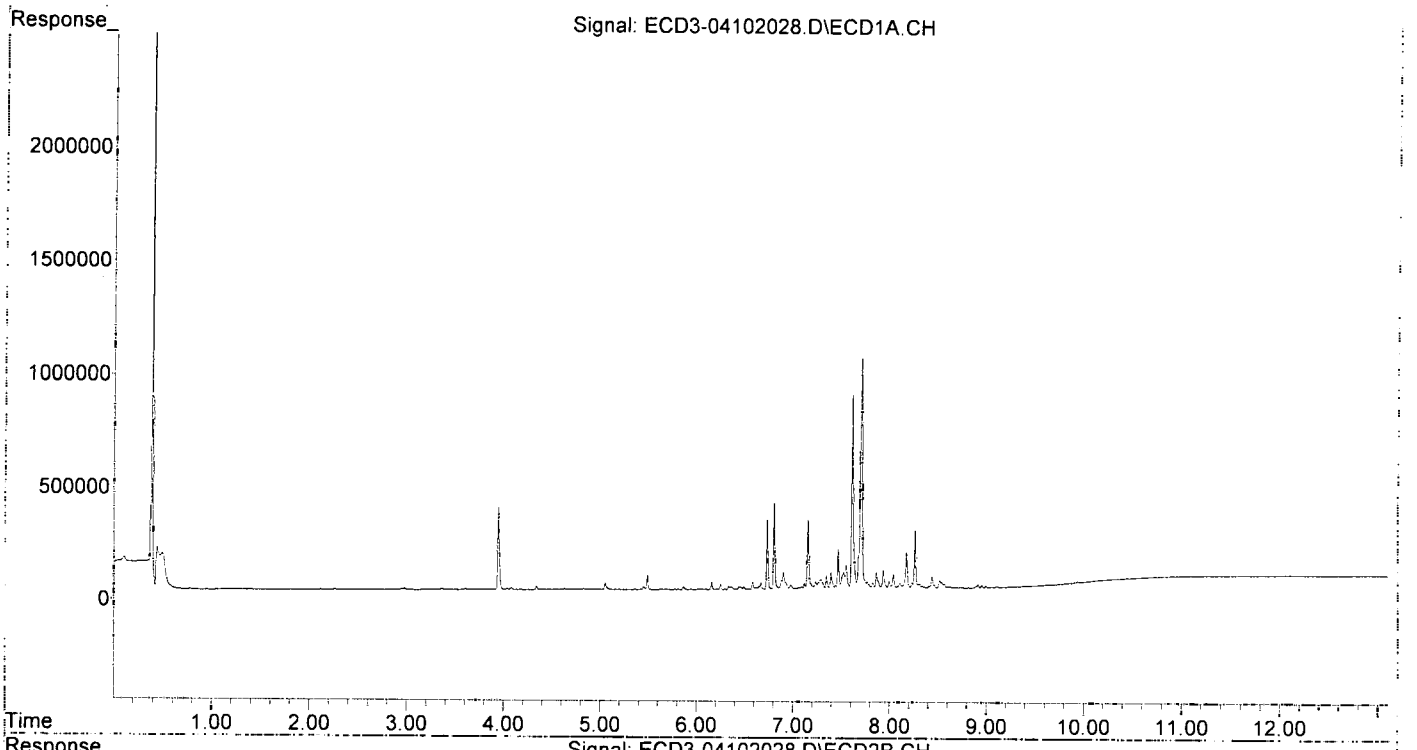
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.615	8.221	860072	734996	44.534	57.718
33)		Chlordane...	7.709	8.329	1020612	633044	46.370	58.630
34)		Chlordane...	8.266	8.997	252424	195537	41.989	58.913 #
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

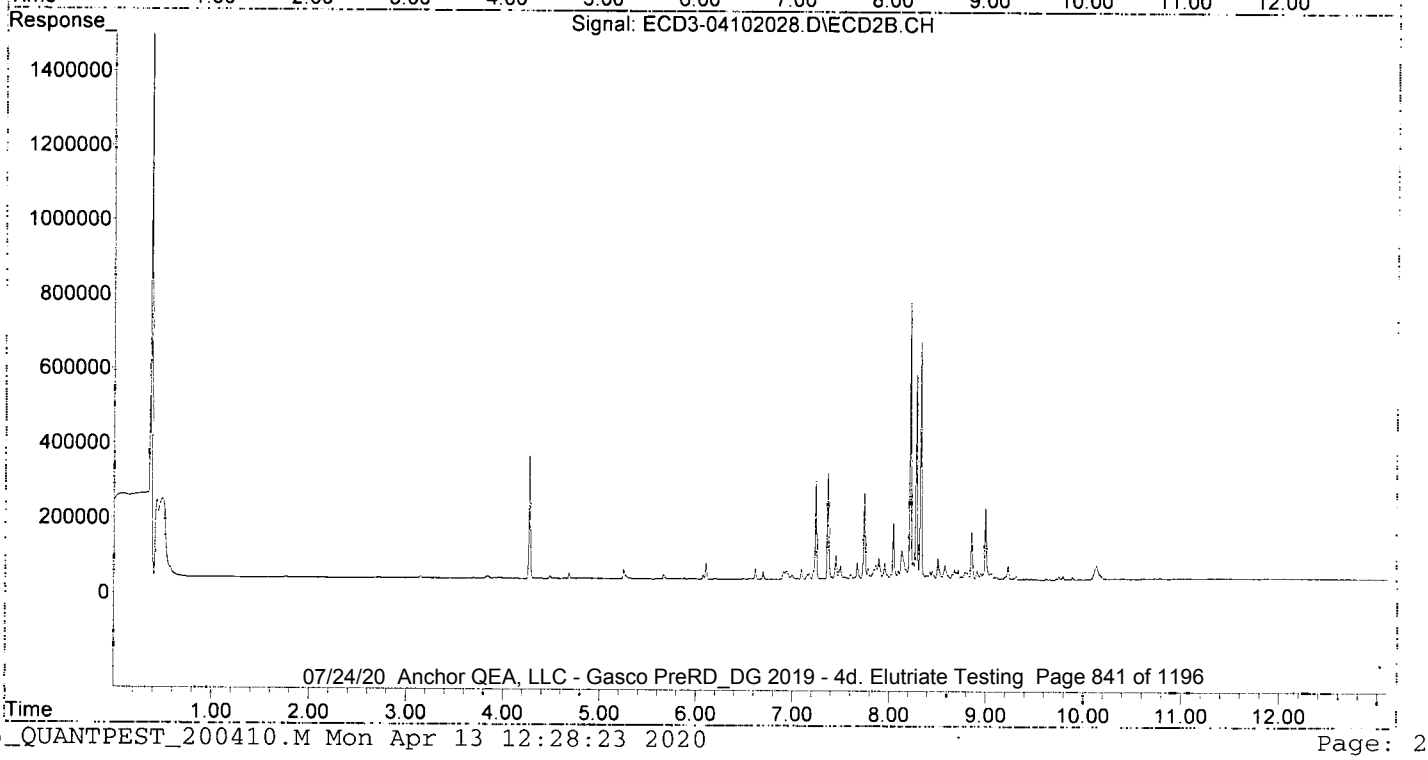
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 18:57
Operator : MJB
Sample : 0D10031-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

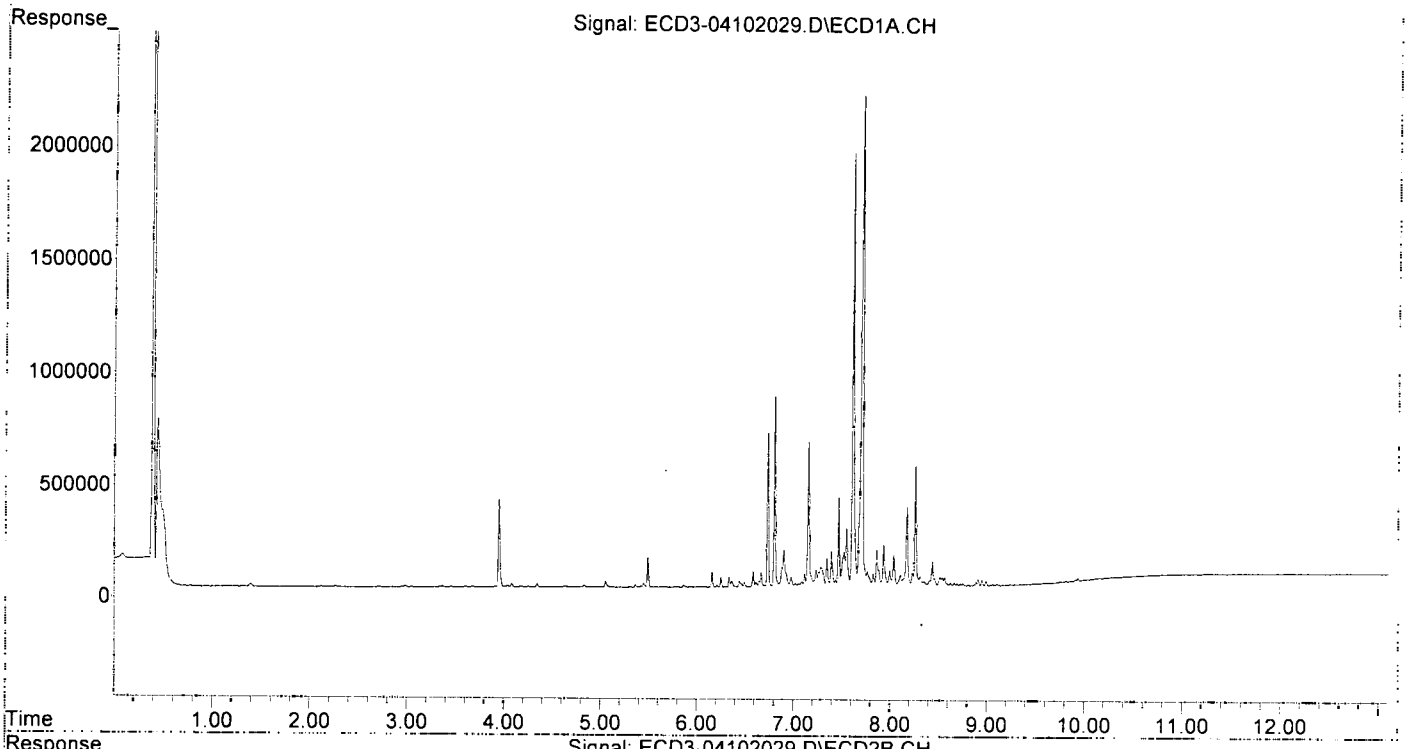
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.613	8.220	1921243	1636710	99.480	128.528
33)		Chlordane...	7.709	8.329	2178319	1360439	98.968	125.998
34)		Chlordane...	8.265	8.997	525276	395685	87.375	130.823 #
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

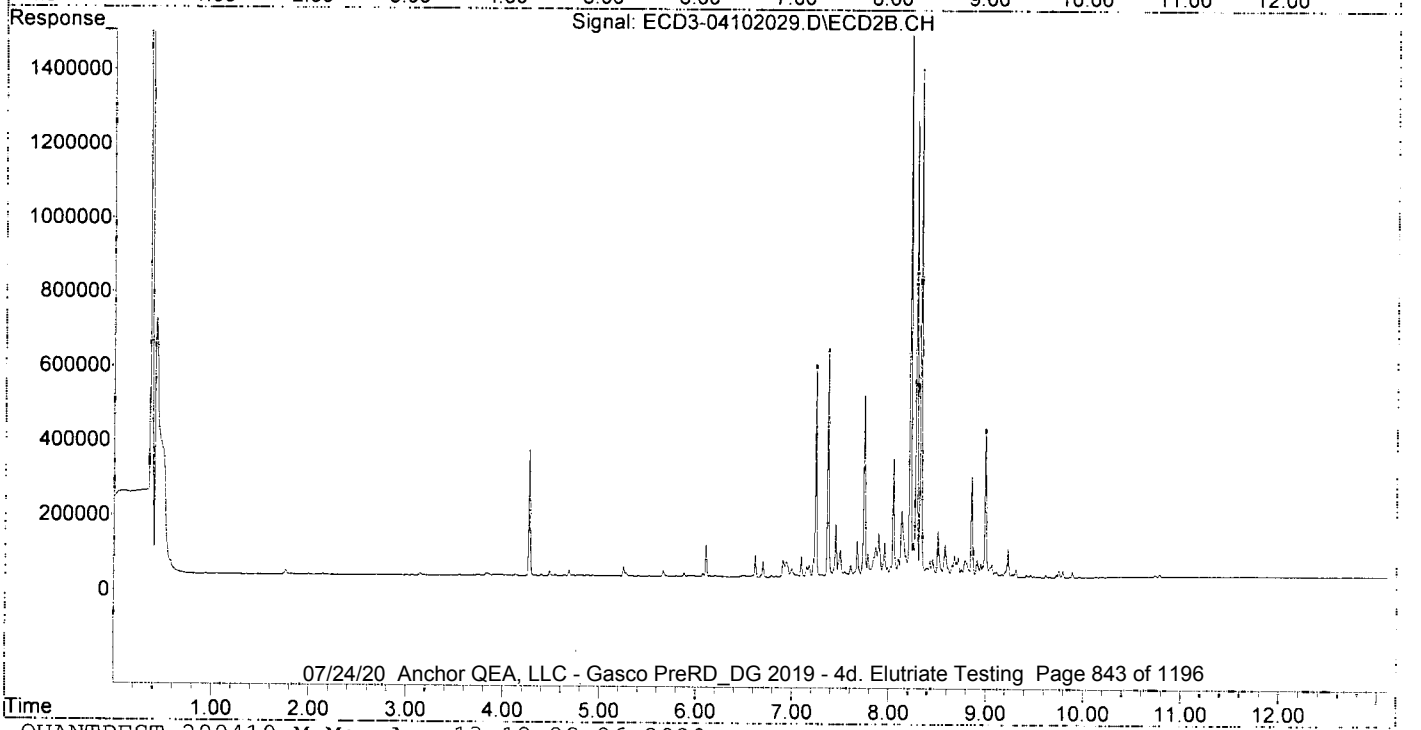
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:14
Operator : MJB
Sample : 0D10031-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:51:47 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:52:29 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

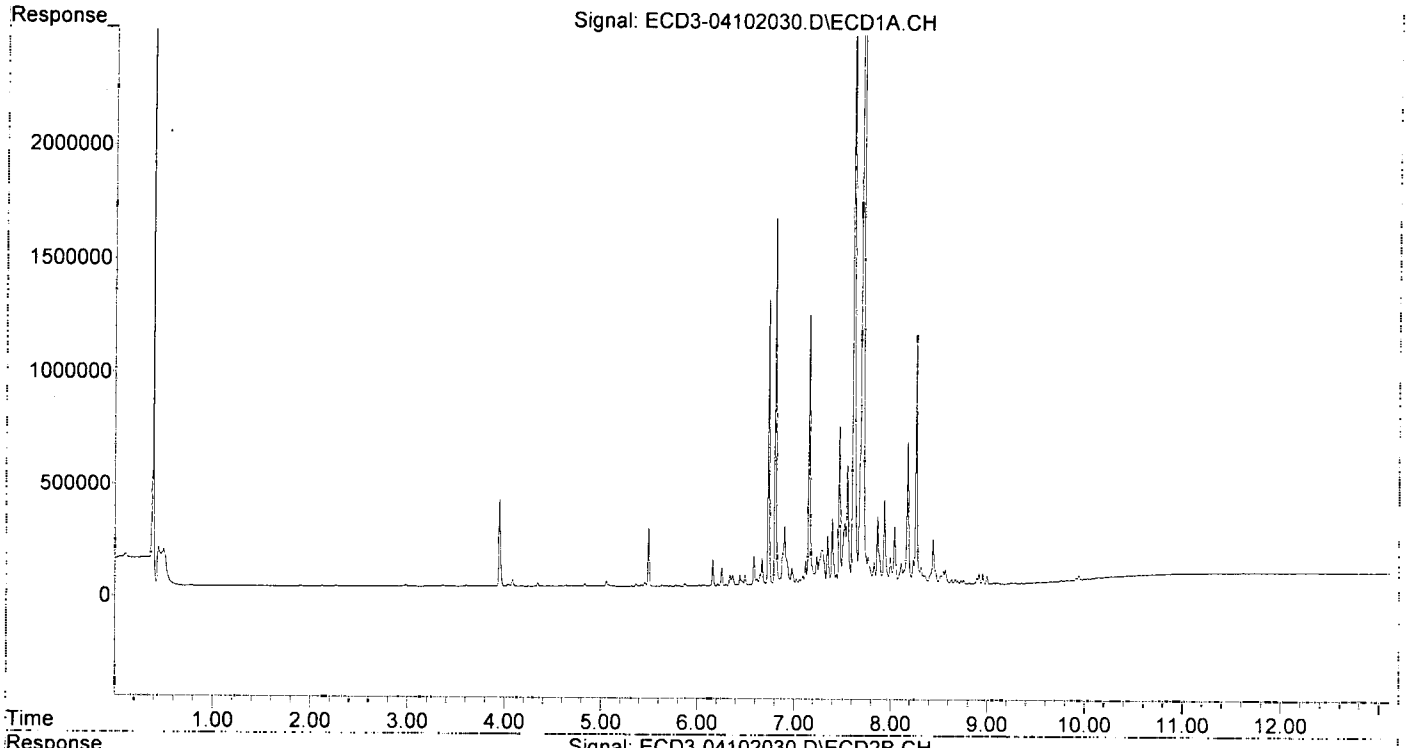
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.613	8.220	3546473	2904795	183.634	228.109
33)		Chlordane...	7.707	8.328	4127220	2508298	187.513	232.308
34)		Chlordane...	8.265	8.996	1111336	745316	184.861	255.675
35)		Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

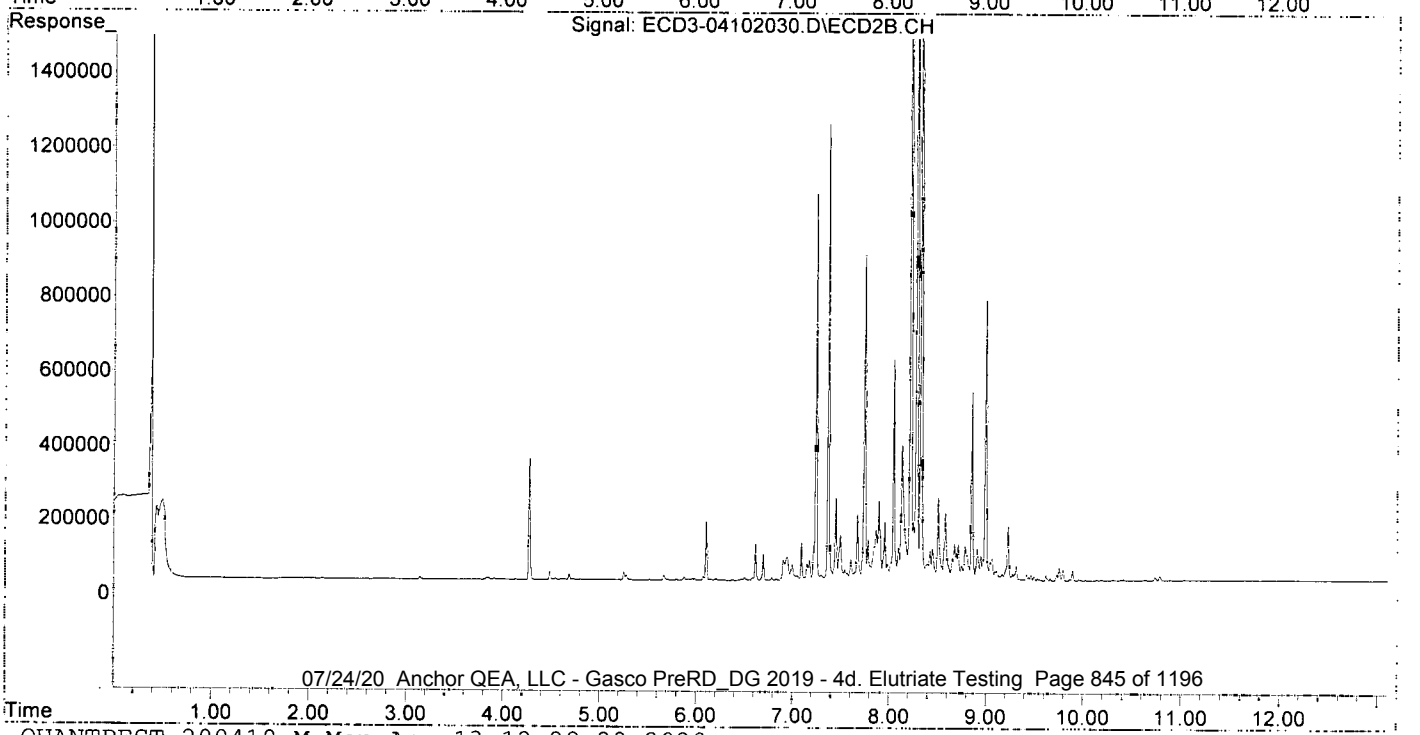
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:31
Operator : MJB
Sample : 0D10031-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:52:29 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:49:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/14/20

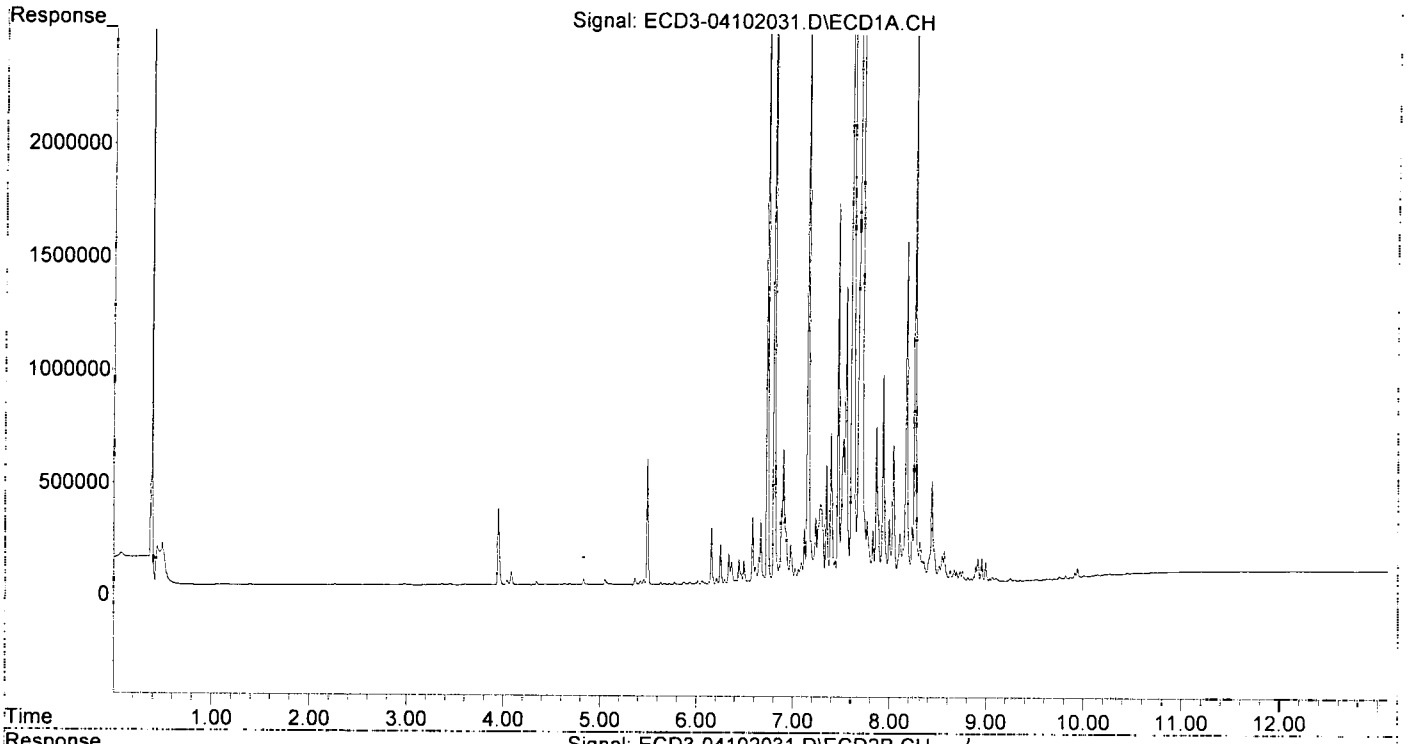
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.613	8.220	8257015	6758715	427.542	530.752
33)	Chlordane...	7.707	8.329	9851749	5655525	447.596	523.792
34)	Chlordane...	8.264	8.997	2640047	1759160	439.150	612.410
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

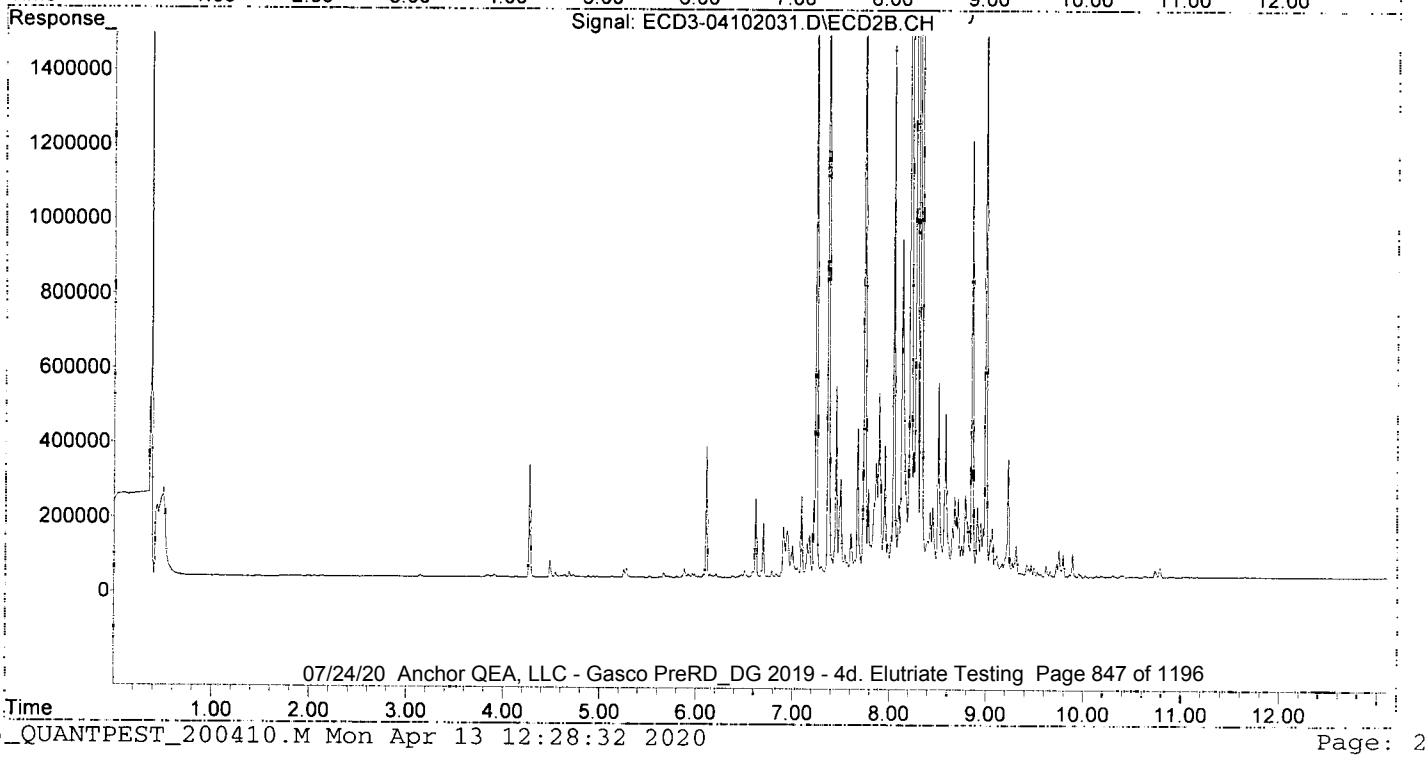
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 19:49
Operator : MJB
Sample : 0D10031-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:49:34 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:43:12 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:53:05 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

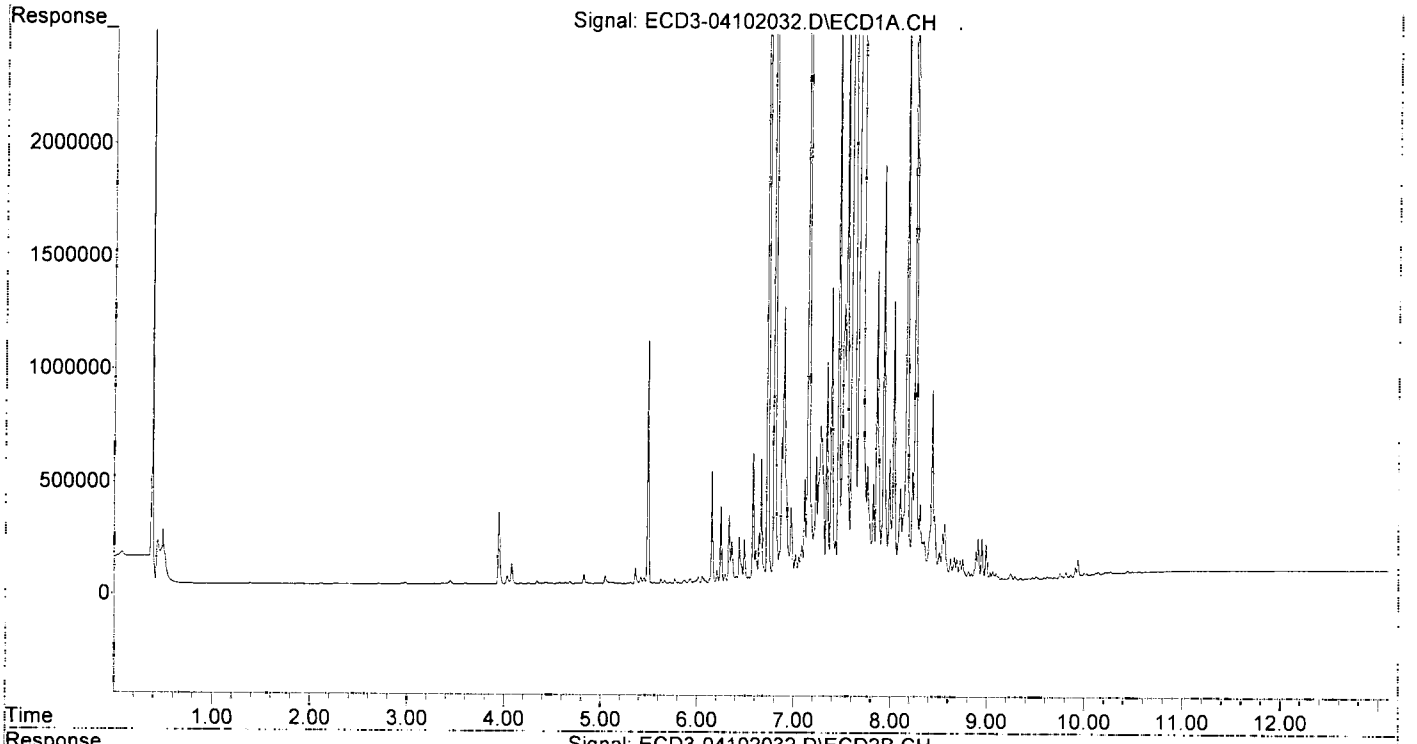
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.612	8.219	16297810	12939873	843.888	1016.149
33)	Chlordane...	7.706	8.327	18923452	11101616	859.752	1028.187
34)	Chlordane...	8.264	8.996	4918547	3349788	818.159	1157.152 #
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

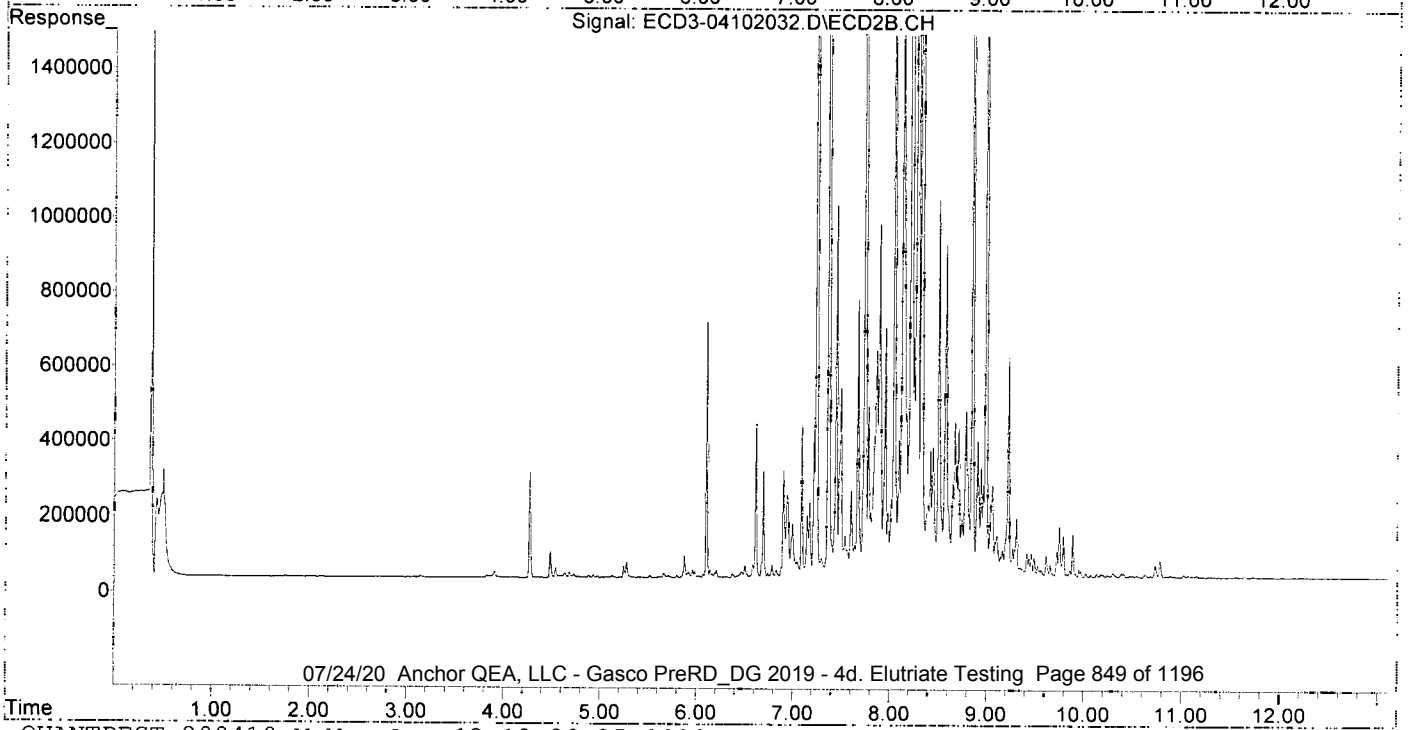
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:06
Operator : MJB
Sample : 0D10031-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:53:05 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:54:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

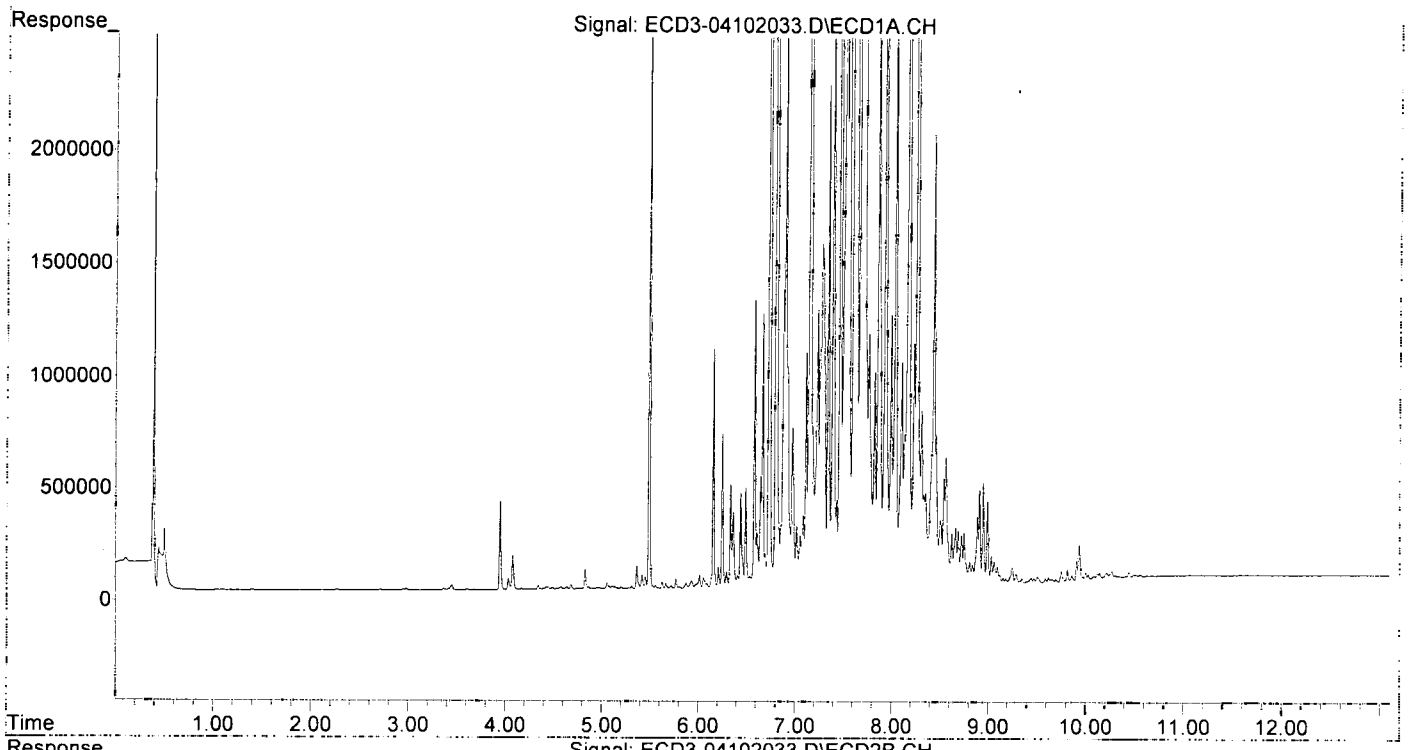
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.612	8.219	36805140	27125757	1905.741	2130.146
33)	Chlordane...	7.707	8.328	42306718	22830370	1922.129	2114.457
34)	Chlordane...	8.263	8.996	11270916	7528954	1874.822	2512.150
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

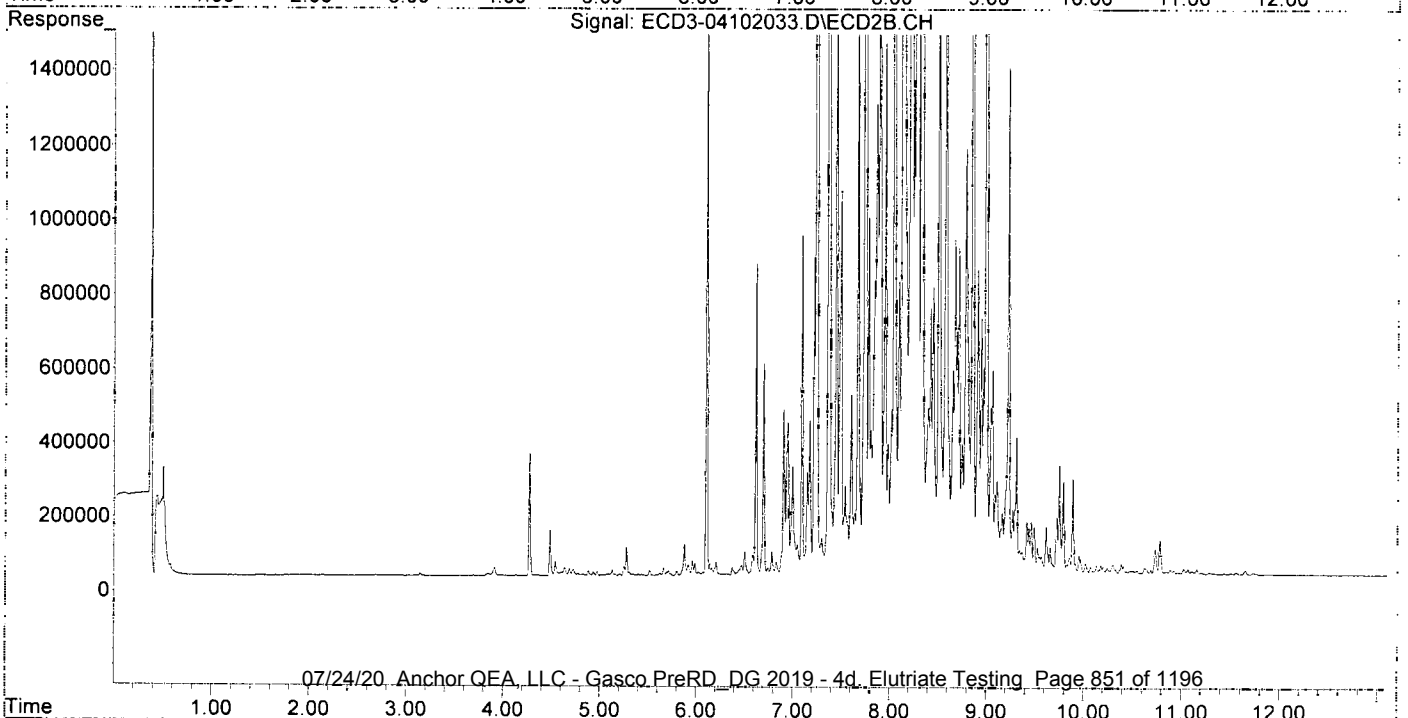
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 20:23
Operator : MJB
Sample : 0D10031-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:54:13 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

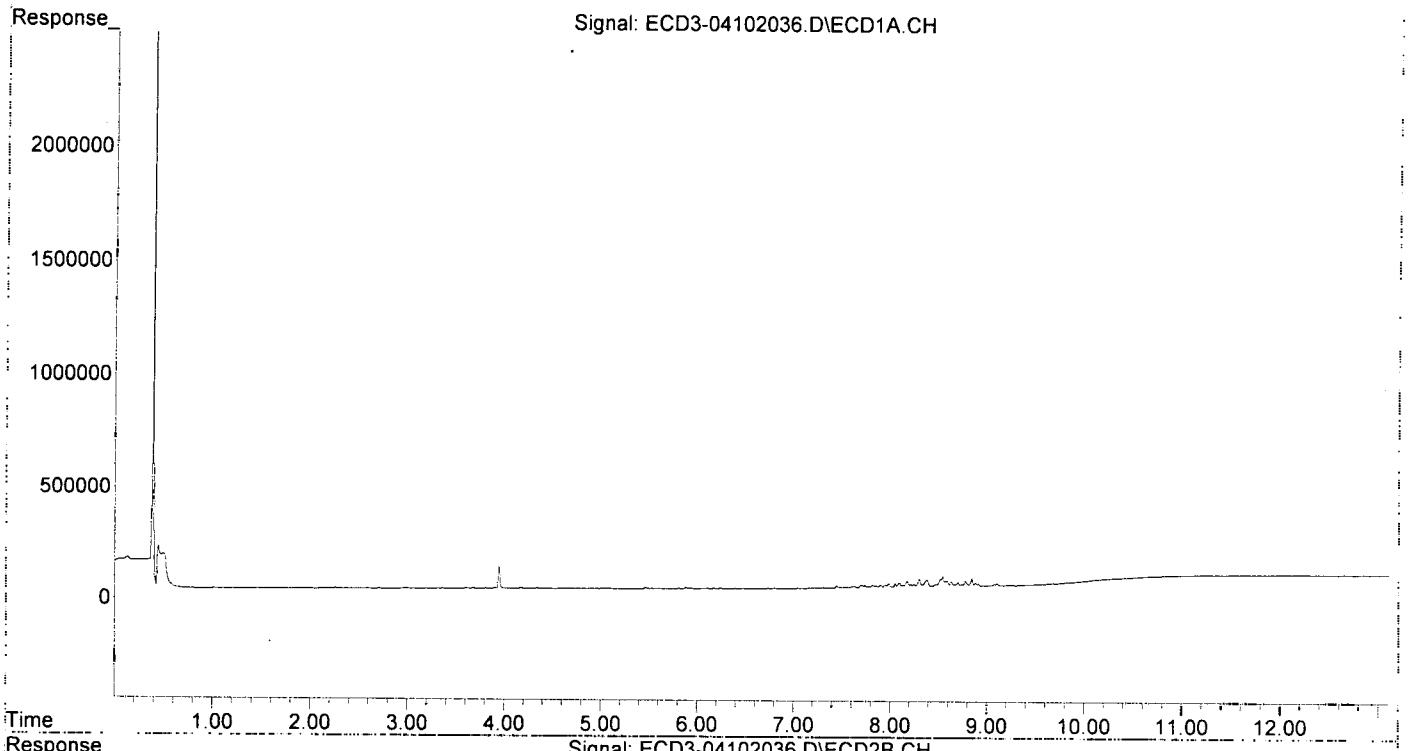
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.702	8.558	9912	11439	12.065	13.951
37)	Toxaphene...	7.986	8.909	15559	14963	9.888	15.107 #
38)	Toxaphene...	8.302	8.944	32449	26120	10.031	14.313 #
39)	Toxaphene...	8.543	9.011	44818	62570	14.219	20.594 #
40)	Toxaphene...	8.775	9.190	23487	23927	9.678	16.587 #
41)	Toxaphene...	8.844	9.574	34168	24338	11.035	14.662
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

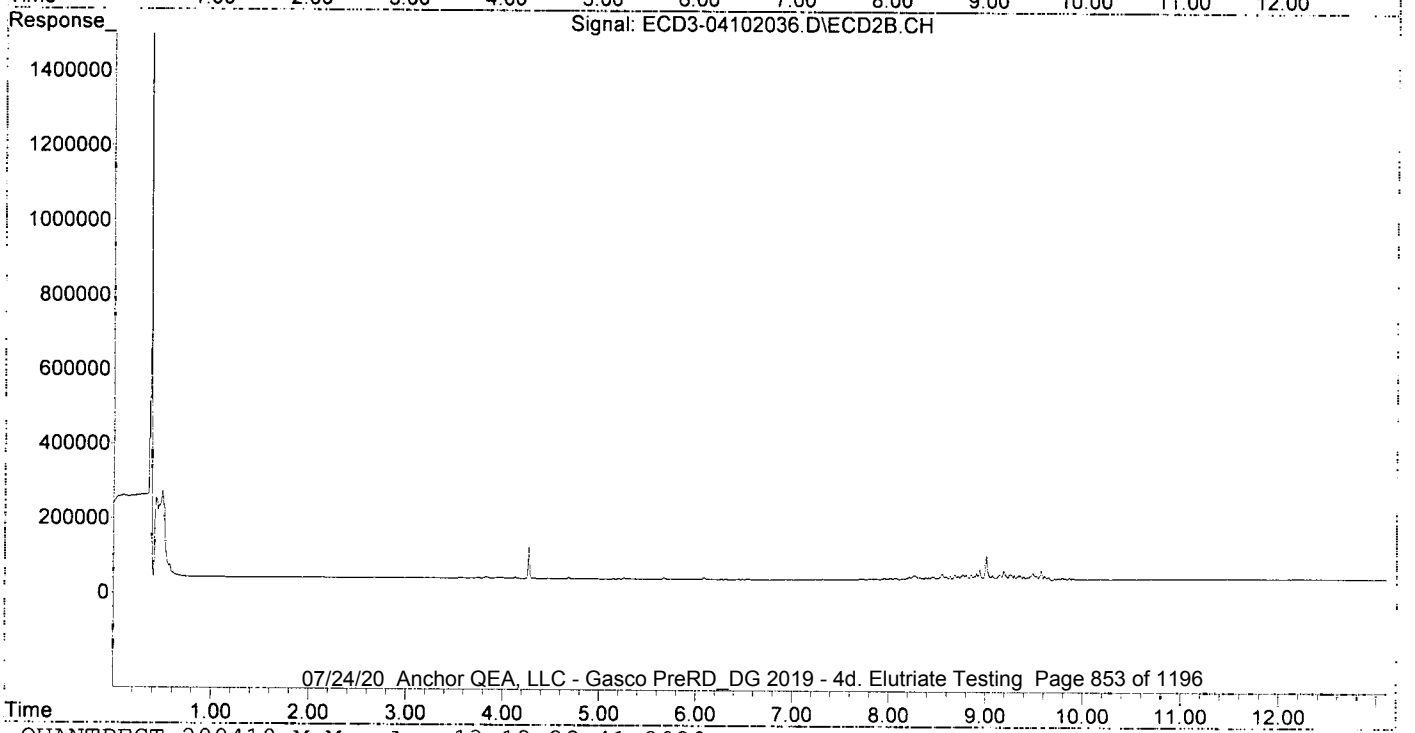
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:14
Operator : MJB
Sample : 0D10031-CALQ
Misc : A20D137, TOX 10 ppb
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:00 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:37 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

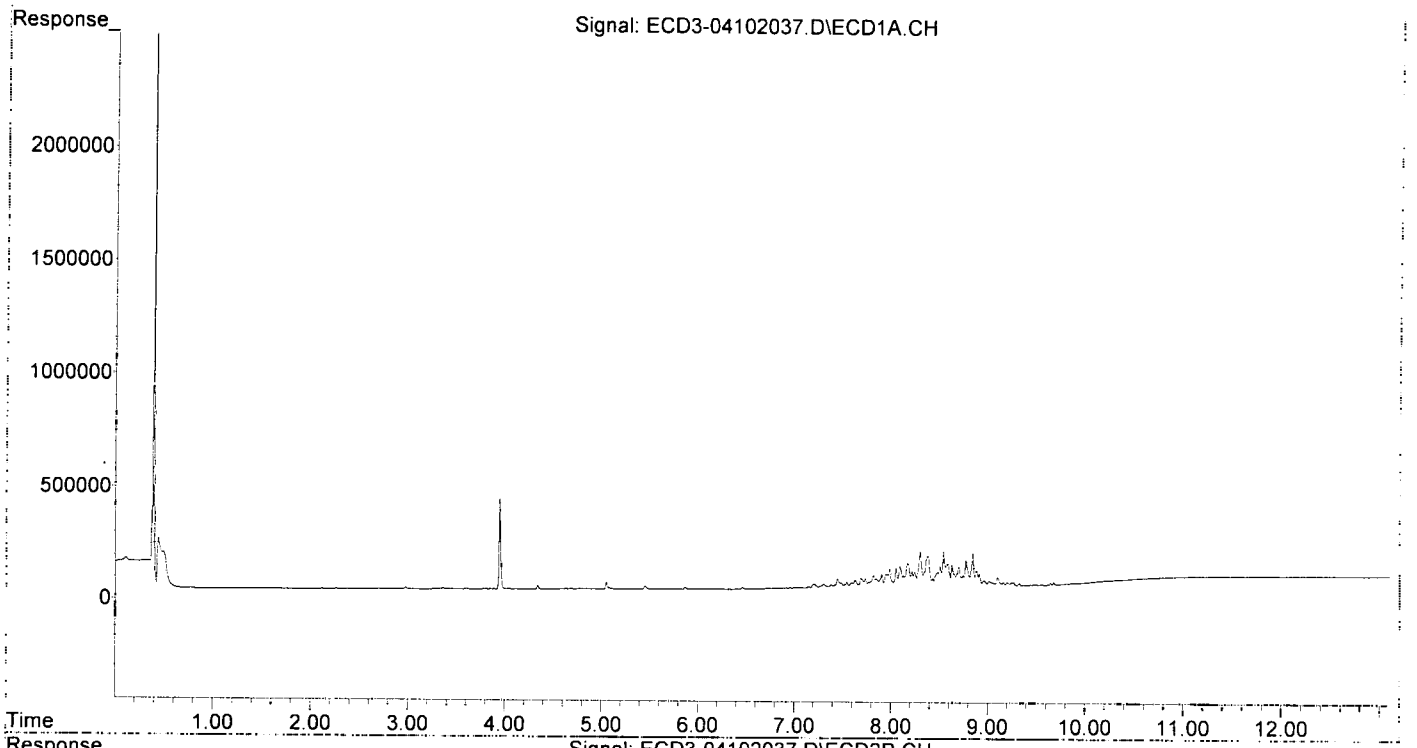
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.689	8.558	41998	61319	51.119	74.788 #
37)		Toxaphene...	7.985	8.909	82518	72536	52.441	73.236
38)		Toxaphene...	8.302	8.944	158918	114478	49.128	72.680 #
39)		Toxaphene...	8.544	9.012	158276	190413	50.214	75.400 #
40)		Toxaphene...	8.775	9.190	119137	99407	49.091	68.914 #
41)		Toxaphene...	8.844	9.574	150990	103198	48.765	72.323 #
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

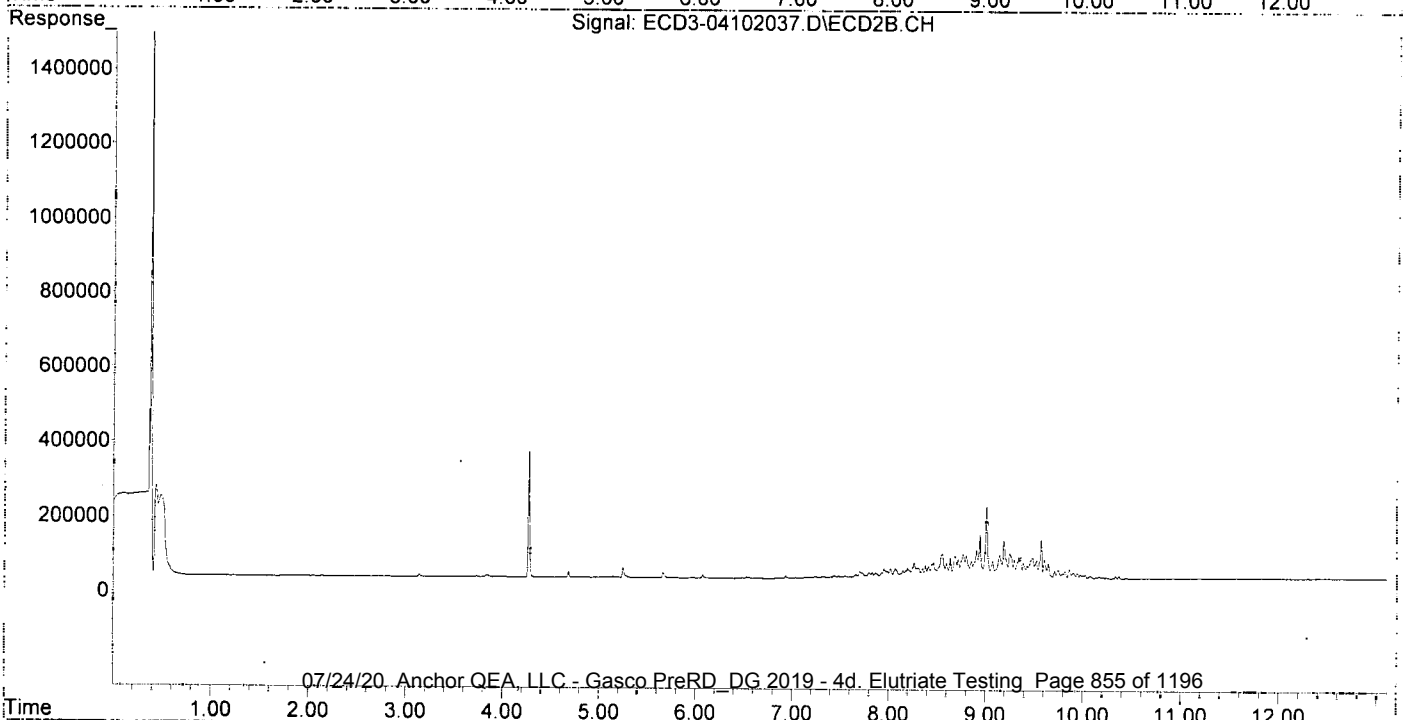
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:31
Operator : MJB
Sample : 0D10031-CALR
Misc : A19J417, TOX 50 ppb
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:59:37 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 4/13/20

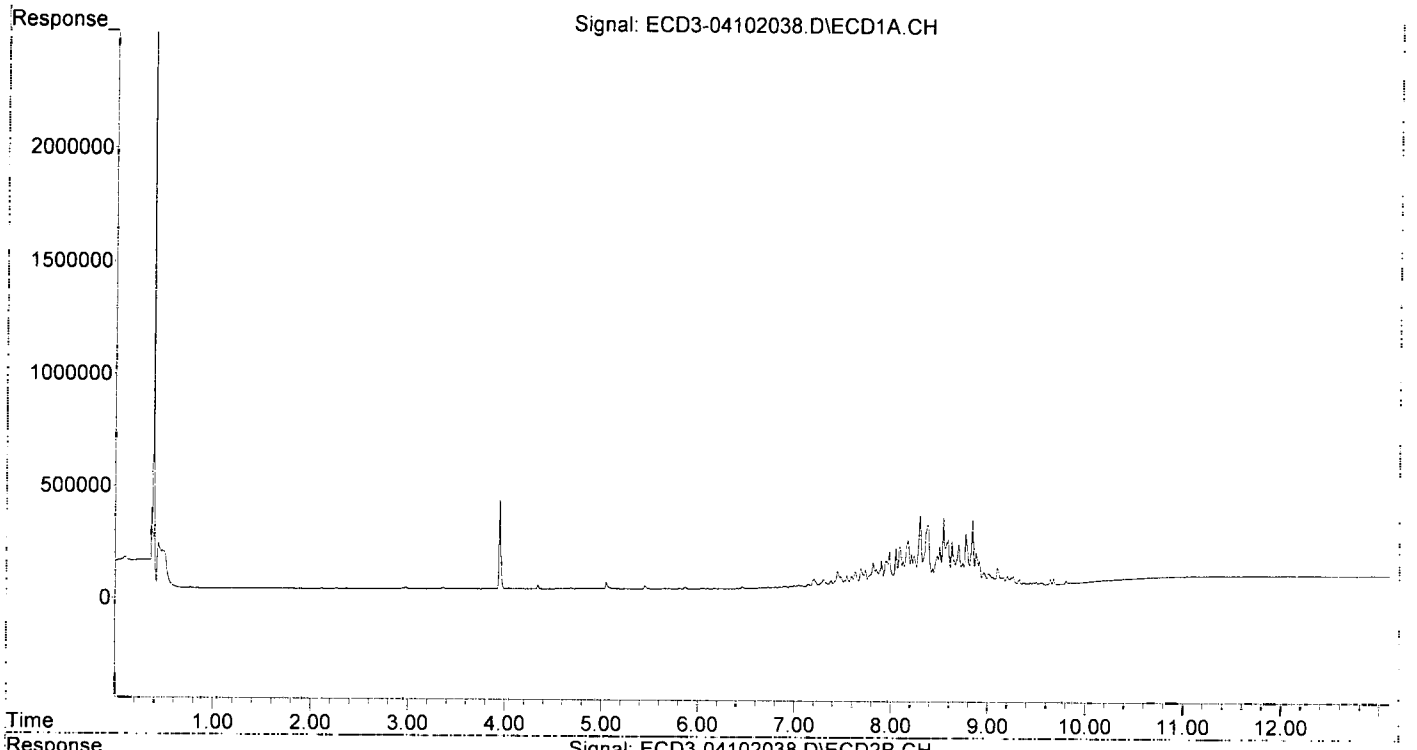
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.688	8.558	83308	116776	101.402	142.428 #
37)	Toxaphene...	7.985	8.908	156502	135442	99.457	136.749
38)	Toxaphene...	8.301	8.944	311689	211094	96.355	136.526 #
39)	Toxaphene...	8.543	9.011	303785	346003	96.378	142.000 #
40)	Toxaphene...	8.775	9.190	229620	185979	94.616	128.930
41)	Toxaphene...	8.844	9.574	291120	194265	94.023	138.789 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

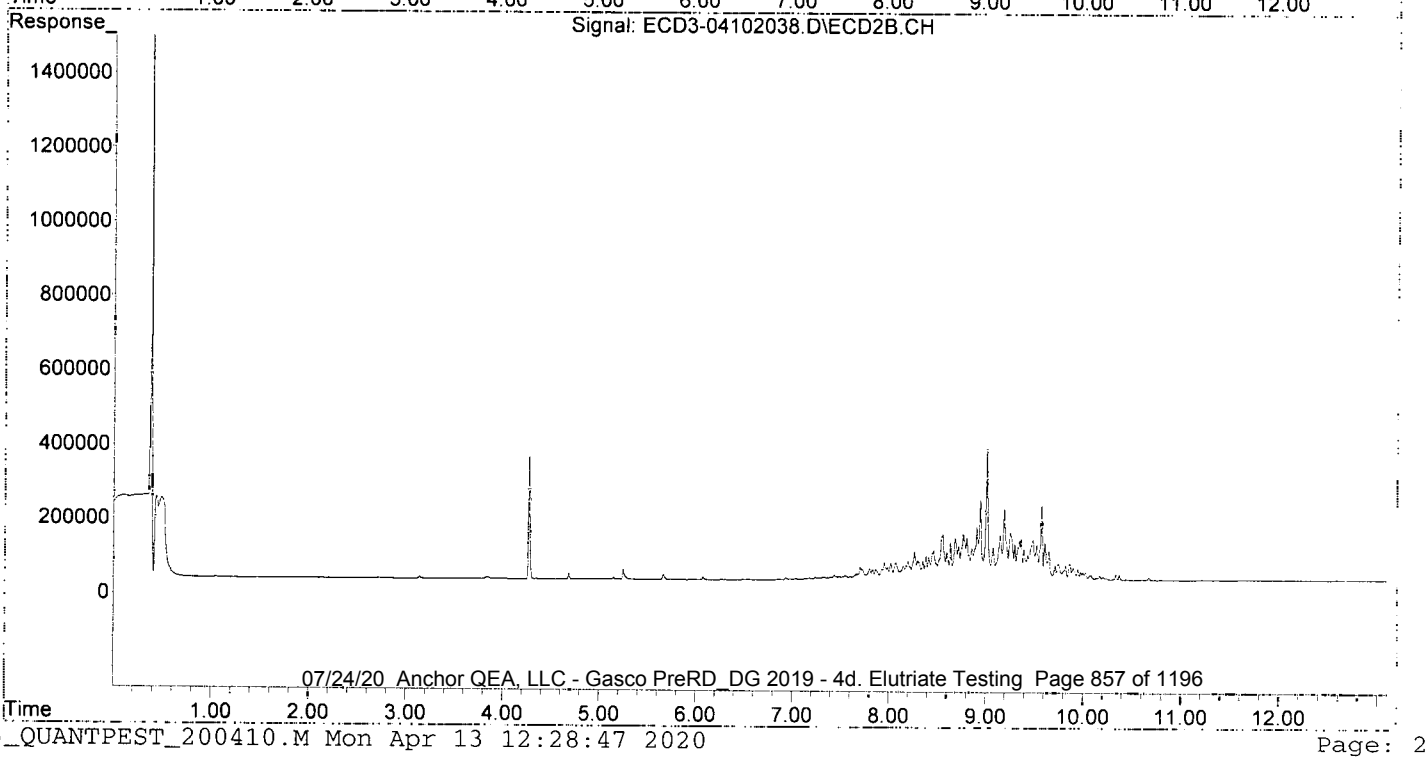
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 21:48
Operator : MJB
Sample : 0D10031-CALS
Misc : A19J418, TOX 100 ppb
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:15 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

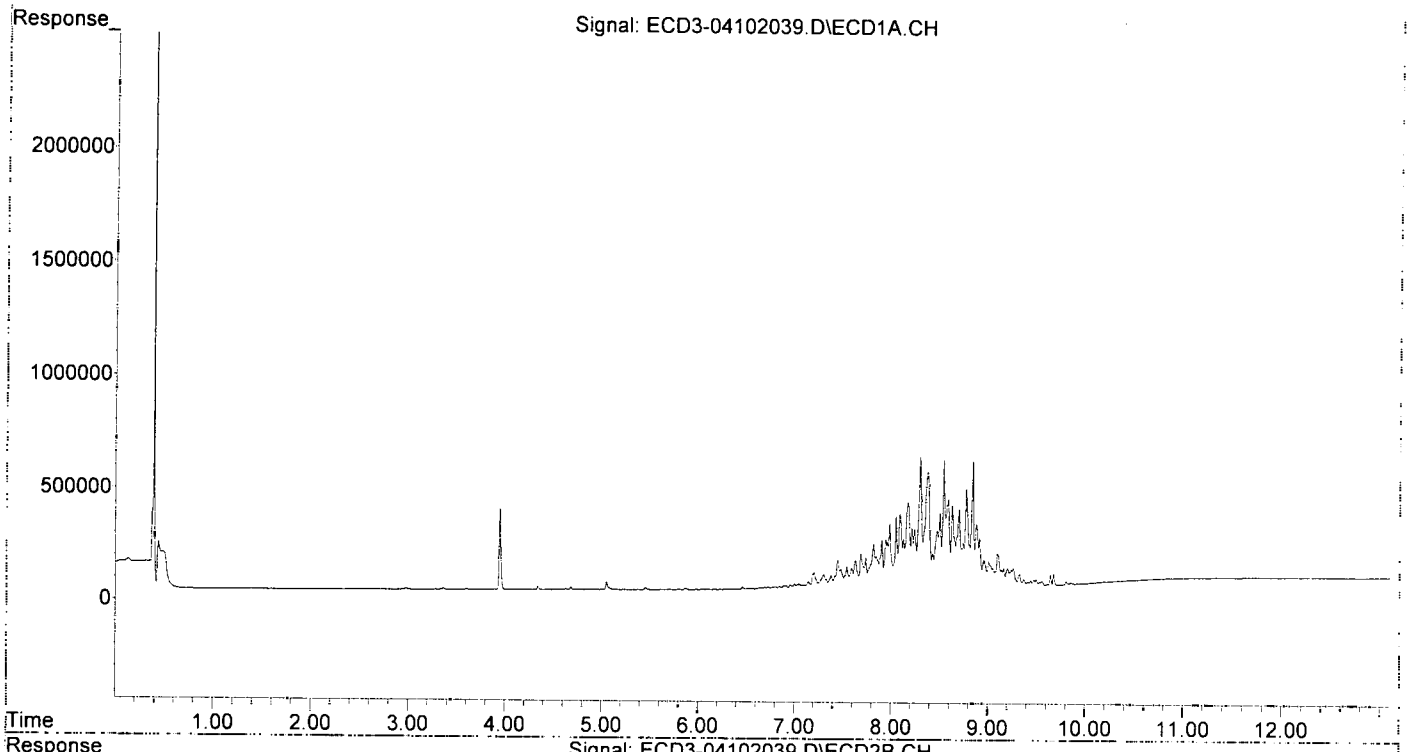
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.686	8.557	153469	208550	186.801	254.362
37)	Toxaphene...	7.984	8.907	286085	248644	181.807	251.044
38)	Toxaphene...	8.299	8.943	586224	394858	181.225	258.033 #
39)	Toxaphene...	8.542	9.011	565257	639556	179.331	267.346 #
40)	Toxaphene...	8.774	9.189	439278	355753	181.007	246.625
41)	Toxaphene...	8.842	9.573	559171	370159	180.595	266.802 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

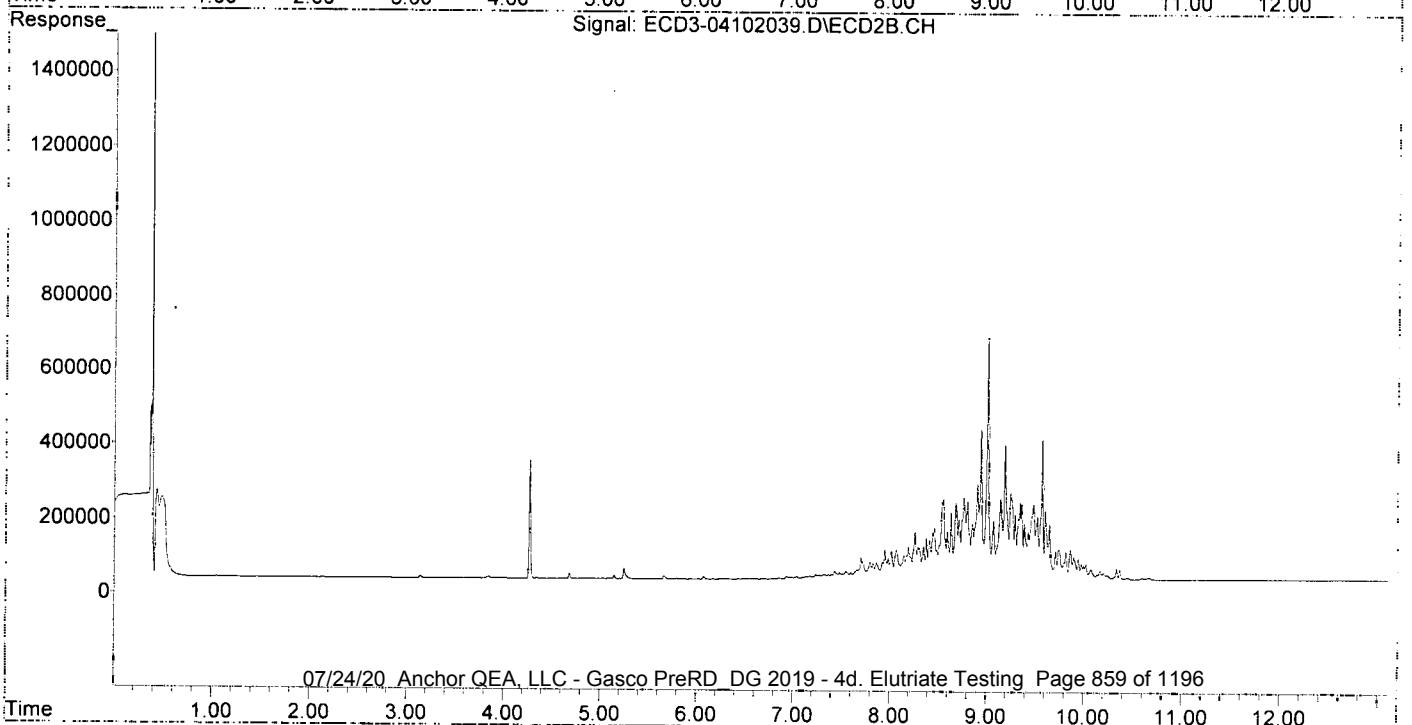
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:05
Operator : MJB
Sample : 0D10031-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:00:49 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:57:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

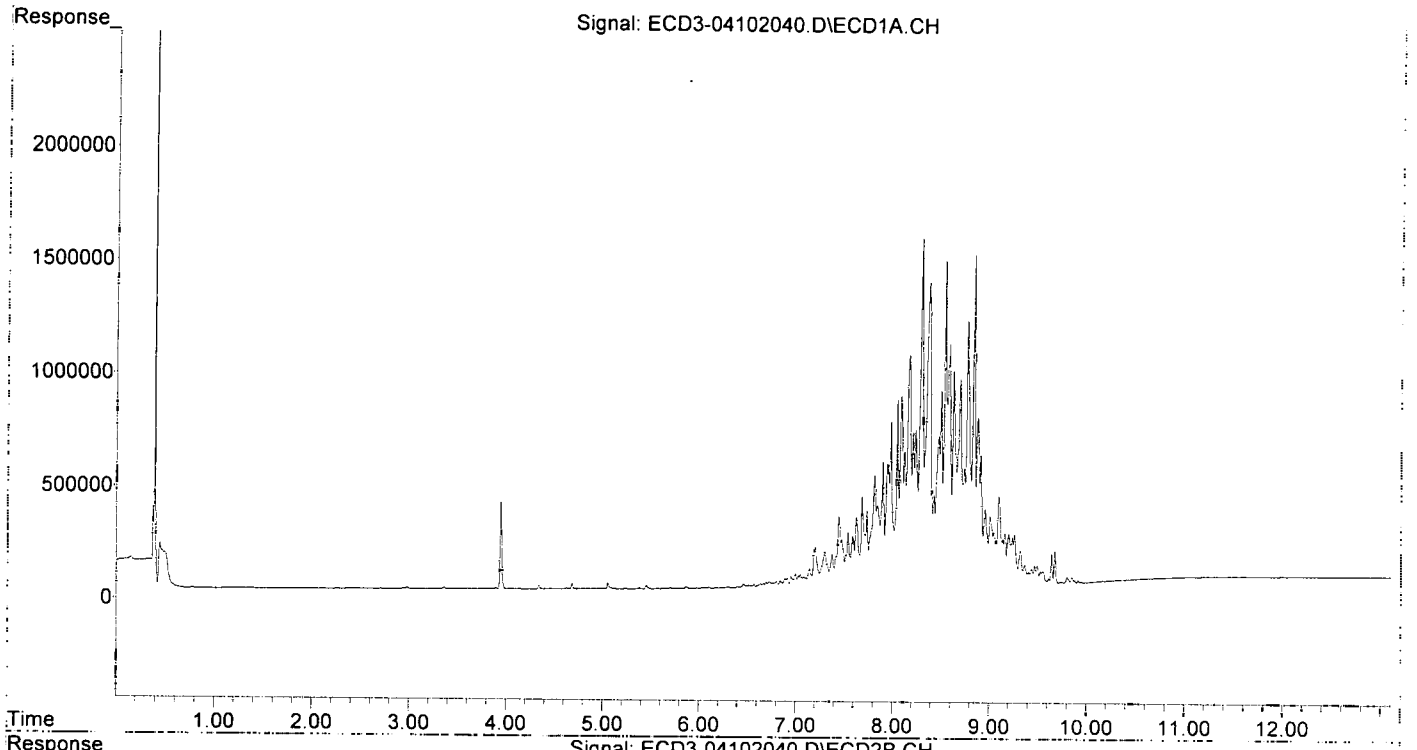
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.685	8.556	400599	549025	487.607	669.629
37)	Toxaphene...	7.982	8.906	728788	661072	463.146	667.452 #
38)	Toxaphene...	8.298	8.942	1540725	1031208	476.299	679.516 #
39)	Toxaphene...	8.541	9.010	1443047	1630720	457.816	687.655 #
40)	Toxaphene...	8.772	9.187	1171966	932303	482.916	646.317
41)	Toxaphene...	8.842	9.572	1468060	958890	474.140	691.839 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

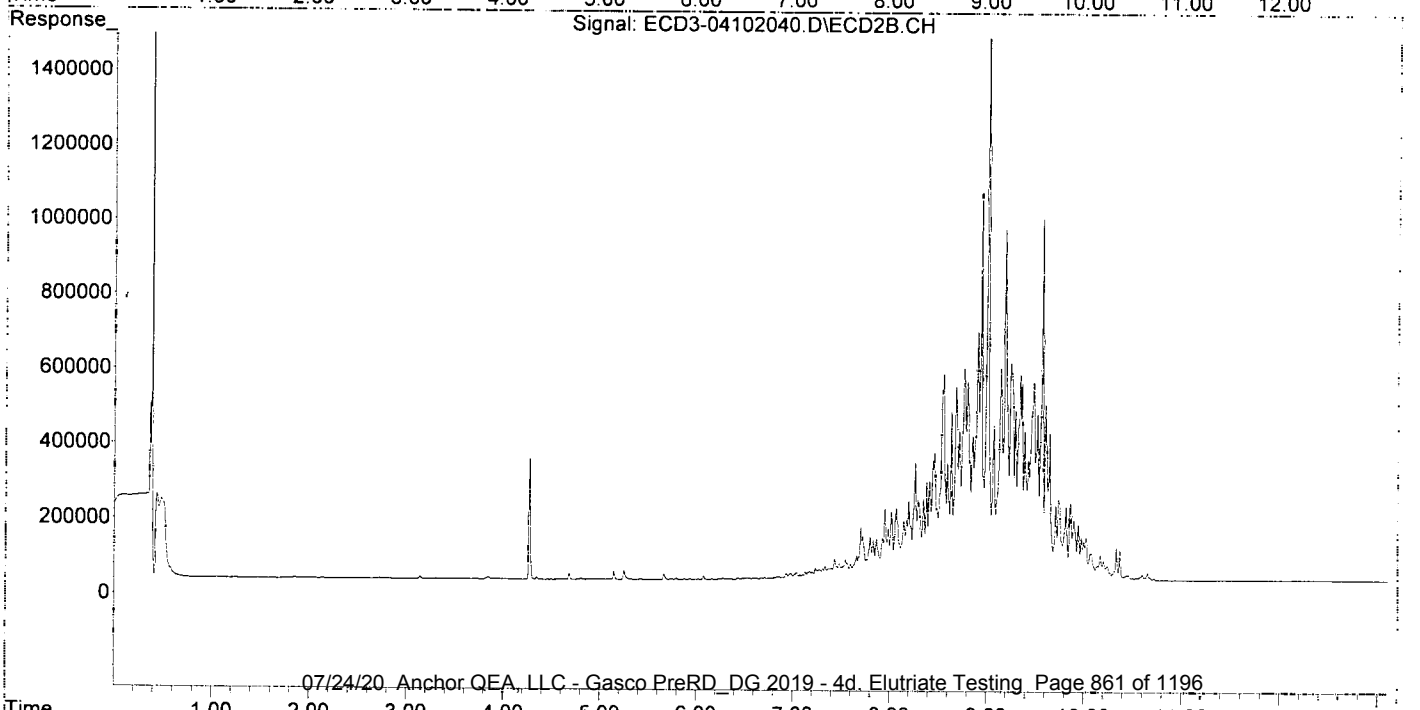
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:22
Operator : MJB
Sample : 0D10031-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 11:57:09 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:50:02 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:32 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

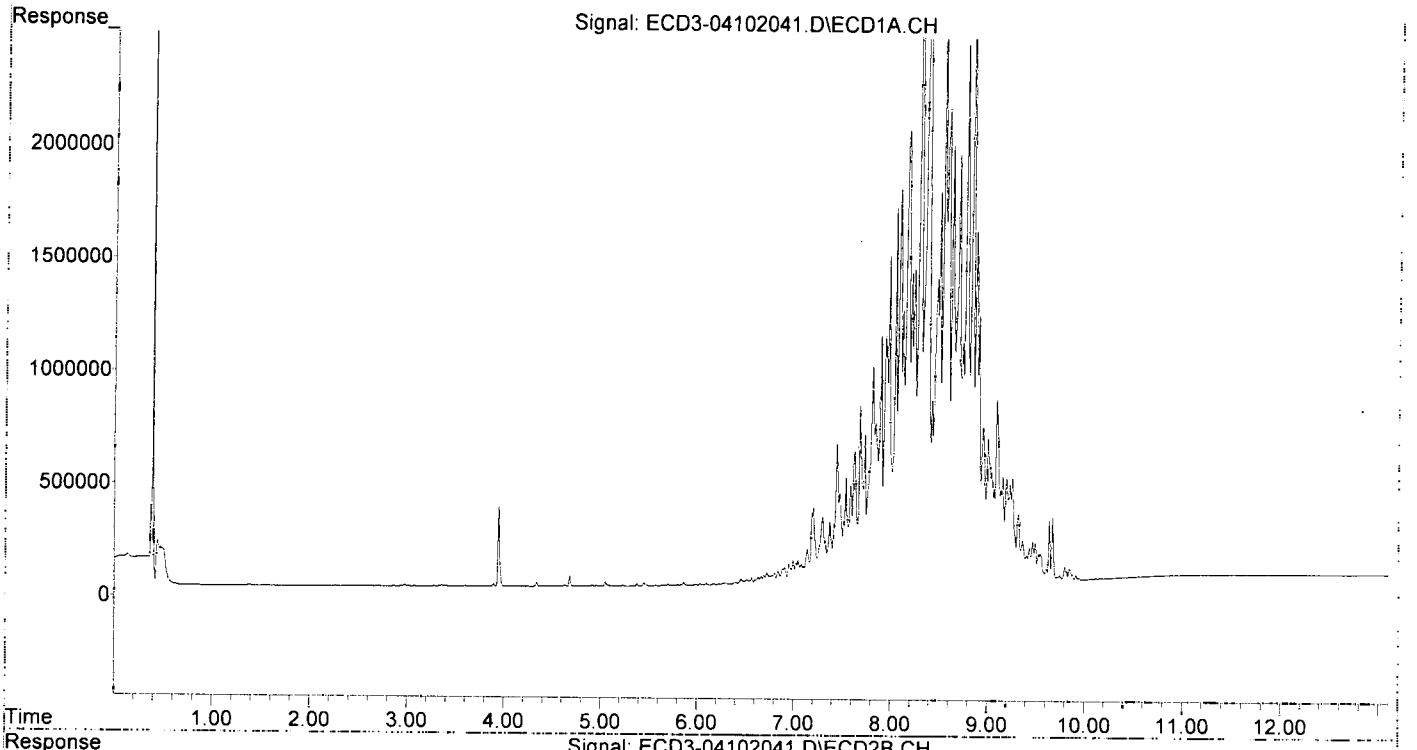
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.684	8.556	793856	1091279	966.275	1330.999
37)	Toxaphene...	7.982	8.906	1453876	1317514	923.940	1330.229 #
38)	Toxaphene...	8.298	8.942	3092888	2068991	956.133	1369.306 #
39)	Toxaphene...	8.541	9.010	2982259	3308655	946.140	1389.257 #
40)	Toxaphene...	8.773	9.188	2385429	1879026	982.932	1302.631
41)	Toxaphene...	8.842	9.571	3017263	1938338	974.486	1387.659 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

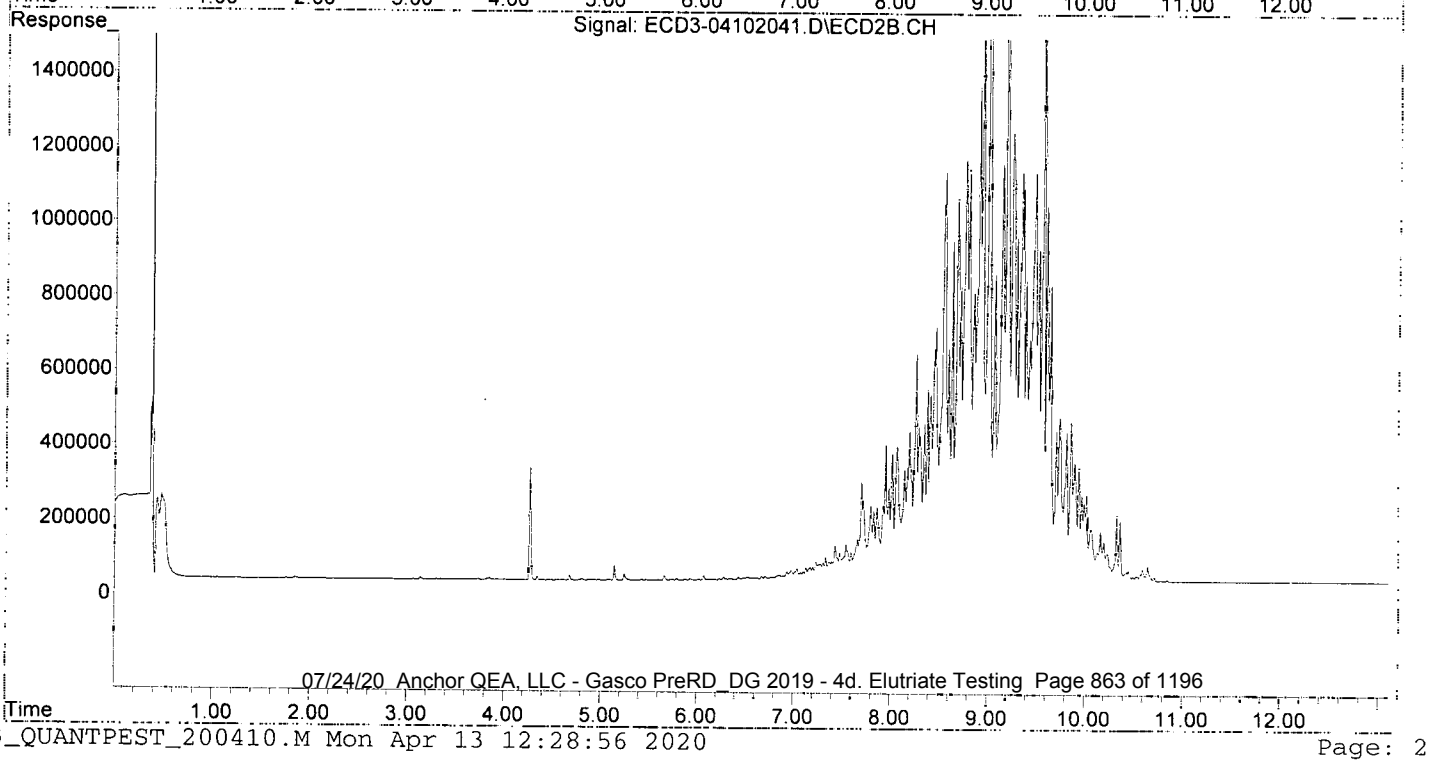
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:39
Operator : MJB
Sample : 0D10031-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:32 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 4/13/20

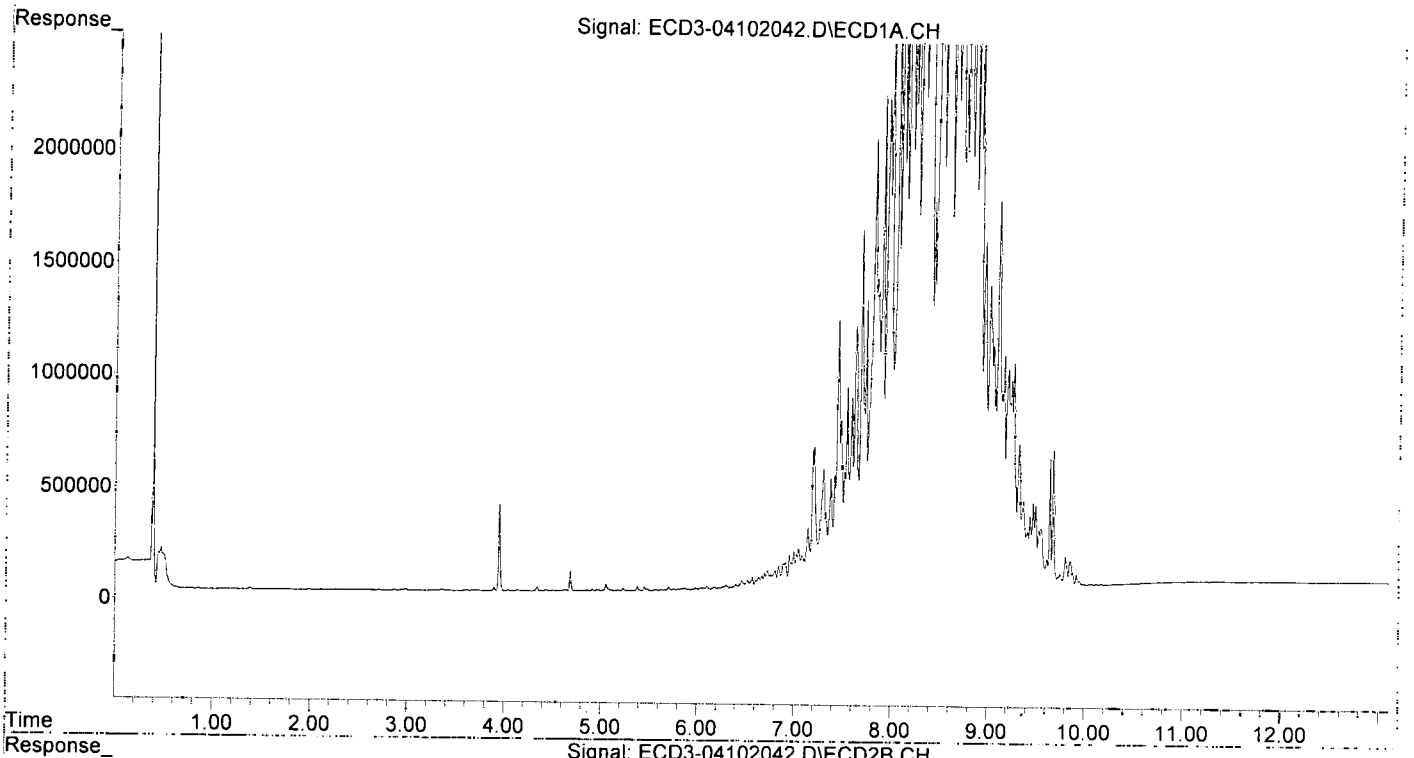
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.683	8.556	1600533	2139599	1948.157	2609.602
37)	Toxaphene...	7.981	8.906	2869354	2728248	1823.478	2754.578 #
38)	Toxaphene...	8.298	8.942	6253933	4148392	1933.337	2760.605 #
39)	Toxaphene...	8.540	9.010	6177768	6693759	1959.935	2768.944 #
40)	Toxaphene...	8.771	9.188	5064912	3797020	2087.031	2632.276
41)	Toxaphene...	8.840	9.571	6273981	4041319	2026.308	2837.330 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

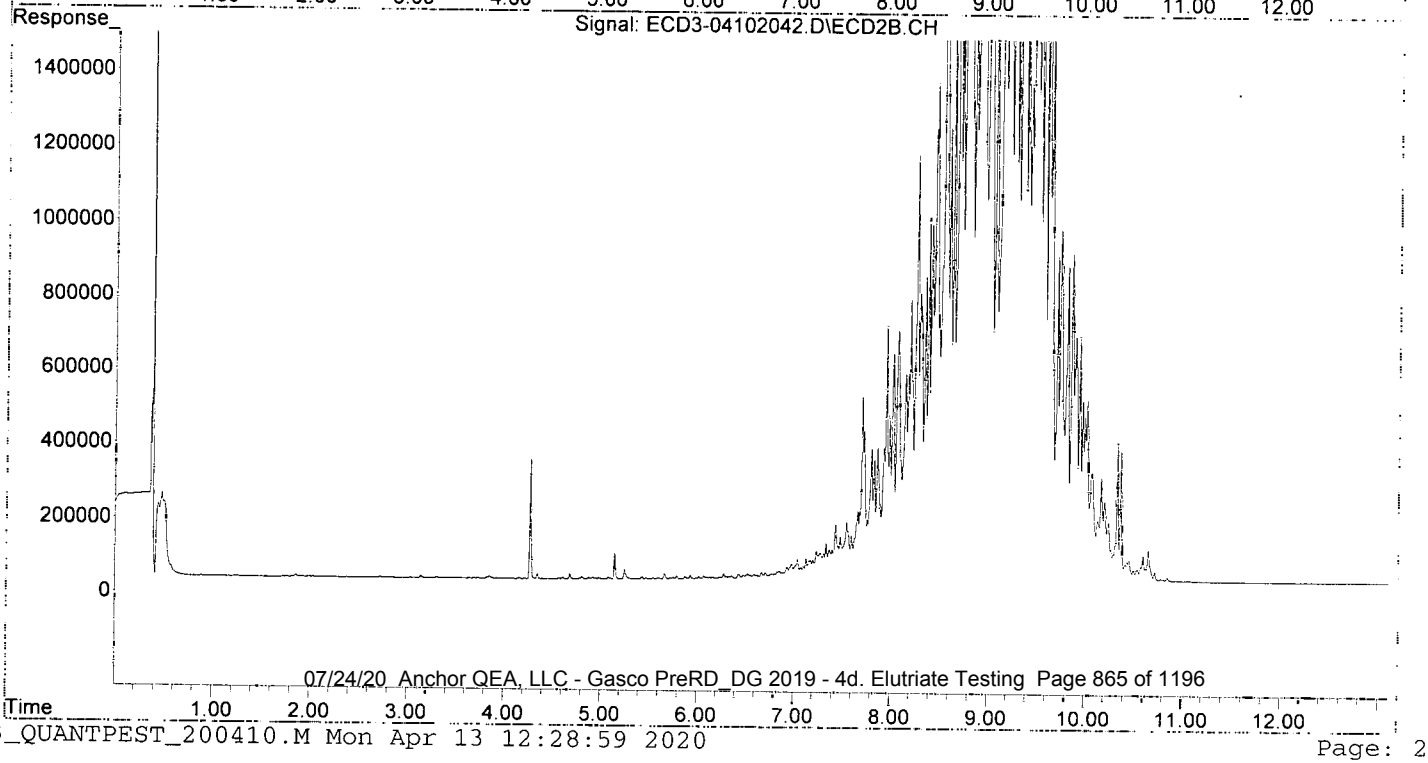
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\3\data\2020-04\0D10031\
Data File : ECD3-04102042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2020 22:56
Operator : MJB
Sample : 0D10031-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Apr 13 12:01:59 2020
Quant Method : C:\msdchem\3\METHODS\ECD3_QUANTPEST_200410.M
Quant Title : Instrument: DualECD3
QLast Update : Mon Apr 13 11:57:20 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

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data

Batch 0051024
Sequence 0E29010 (A0E0669-01RE3)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0051024 (Water)

Prep Method: EPA 3510C (Acid/Base Neutral)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0051024-BLK1		QC	05/28/20 14:25	1100	1				100					
	0051024-BSD1		QC	05/28/20 14:25	1000	1	A20E251		50	100					
	0051024-BS1		QC	05/28/20 14:25	1000	1	A20E251		50	100					
	A0E0669-01RE3	I	8270D LL Full List	05/28/20 15:42	1040	1				100	PDI-026SW-A-2 00521-01	Surr failure			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D171	10/10/20	6N Sodium Hydroxide
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E143	11/09/20	DCM CHEM PROD. DY726-US

Analyte Spike(s)

Std ID	Exp. Date	Description
A20E251	11/17/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s)

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

3x rinse

Witness: _____

Bottle Check: _____

Prepared By: _____ Date _____

Reviewed By: AMS 6/1/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0051024 (Water)

Prep Method: EPA 3510C (Acid/Base Neutral)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0051024-BLK1		QC	05/28/20 14:25	~~1000~~ 1100	1 ✓				100			✓		✓
	0051024-BSD1		QC	05/28/20 14:25	1000	1 ✓	A20E251		50	100			✓		✓
	0051024-BS1		QC	05/28/20 14:25	1000	1 ✓	A20E251		50	100			✓		✓
	A0E0669-01RE3 05.28.20	H	8270D LL Full List	05/28/20 15:42	~~1000~~ 1040	1 ✓				100	PDI-026SW-A-~~2~~ 00521-01 ✓	Surr failure	✓		✓

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20A078	01/14/22	Conc. HCl - Omnitrace
A20B017	08/01/20	Glass Wool
A20D171	10/10/20	6N Sodium Hydroxide
A20D177	10/10/22	Sodium Sulfate Lot # 195510
A20E143	11/09/20	DCM CHEM PROD. DY726-US

Analyte Spike(s) cm

Std ID	Exp. Date	Description
A20E251	11/17/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s) cm

Std ID	Exp. Date	Description
A20E103	11/08/20	PAH Soil and Water Surr. (50ppm)

3x rinse ✓ cm 05.28.20

Witness: Cag 05/28/2020

Bottle: CAG05/28/2020

cm
05.28.20

cm 05.28.20
Prepared By: Date

SCG 05/28/2020
Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0E29010	Instrument:	SV-GCMS10
Date:	**05/29/20 07:31**	Calibration:	**A0E0506**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E29010-TUN1	Water	QC	QC			A20C061	A20E130
2	0E29010-CCV1	Water	QC	QC			A20C061	A20D248
3	0E29010-CCB1	Water	QC	QC			A20C061	
4	0051024-BLK1	Water	QC	QC		0051024	A20C061	
5	0051024-BS1	Water	QC	QC		0051024	A20C061	
6	0051024-BSD1	Water	QC	QC		0051024	A20C061	
7	A0E0669-01RE3	Water	8270D LL Full List	Anchor QEA, LLC	06/05/20	0051024	A20C061	
8	0E29010-IBL1	Water	QC	QC			A20C061	
9	0051039-BLK1	Water	QC	QC		0051039	A20C061	
10	0051039-BS1	Water	QC	QC		0051039	A20C061	
11	0051039-BSD1	Water	QC	QC		0051039	A20C061	
12	A0E0310-01	Water	1311/8270D TCLP SVOC Reg List	Anchor QEA, LLC	05/26/20	0051039	A20C061	
13	A0E0310-02	Water	1311/8270D TCLP SVOC Reg List	Anchor QEA, LLC	05/26/20	0051039	A20C061	
14	0051038-BLK1	Water	QC	QC		0051038	A20C061	
15	0051038-BS1	Water	QC	QC		0051038	A20C061	
16	0051038-BSD1	Water	QC	QC		0051038	A20C061	
17	A0E0310-01RE1	Water	1311/8270D TCLP SVOC Reg List	Anchor QEA, LLC	05/26/20	0051038	A20C061	
18	A0E0310-02RE1	Water	1311/8270D TCLP SVOC Reg List	Anchor QEA, LLC	05/26/20	0051038	A20C061	
19	A0E0314-01RE1	Water	1311/8270D TCLP SVOC Reg List	Anchor QEA, LLC	05/26/20	0051038	A20C061	
20	A0E0310-01RE2	Water	1311/8270D TCLP SVOC Reg List	Anchor QEA, LLC	05/26/20	0051039	A20C061	
21	0E29010-IBL2	Water	QC	QC			A20C061	

Data Entered By/Date: AMS 6/1/20

Comments:

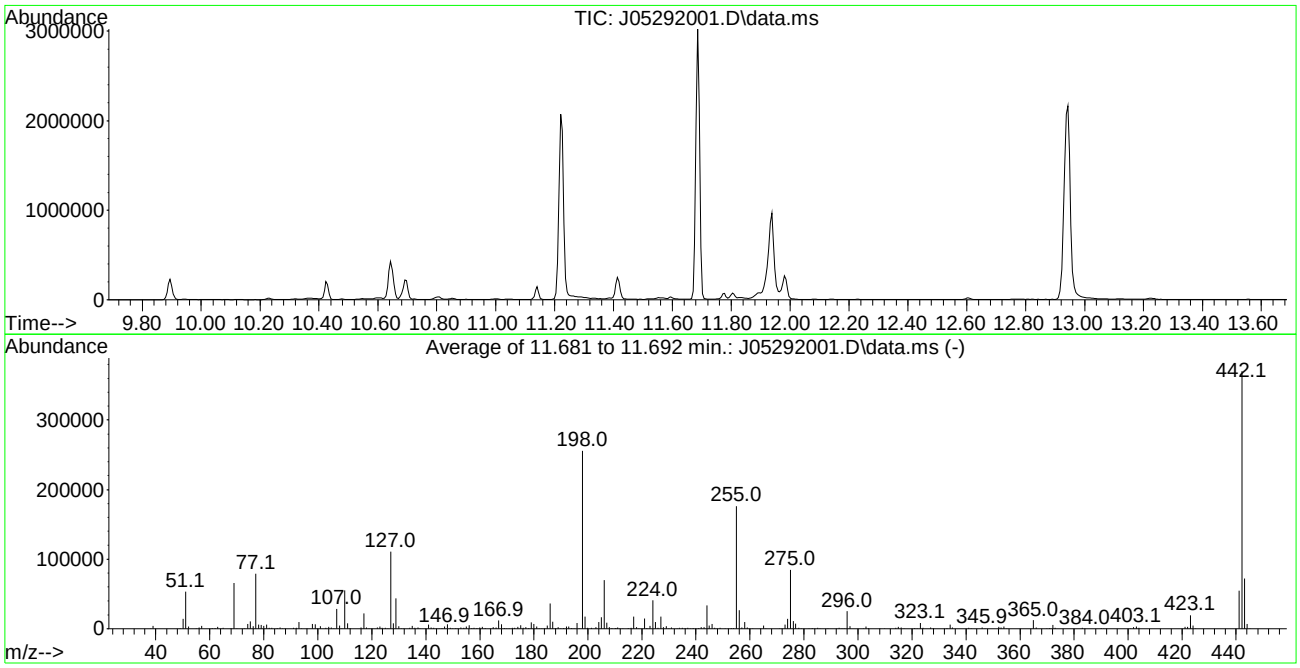
Data Reviewed By/Date: JK 6/1/20

AMS 5/29/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292001.D
Acq On : 29 May 2020 8:03 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : T:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Mon May 04 10:56:48 2020



AutoFind: Scans 1532, 1533, 1534; Background Corrected with Scan 1527

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	960	PASS
69	198	0.01	100	25.8	65985	PASS
70	69	0.00	2	0.6	402	PASS
197	198	0.00	2	0.2	400	PASS
198	198	100	100	100.0	255808	PASS
199	198	5	9	6.8	17470	PASS
365	198	1	100	4.8	12362	PASS
441	443	0.01	150	76.0	54805	PASS
442	198	0.10	200	144.8	370496	PASS
443	442	15	24	19.5	72131	PASS

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292001.D
Acq On : 29 May 2020 8:03 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:21:26 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration

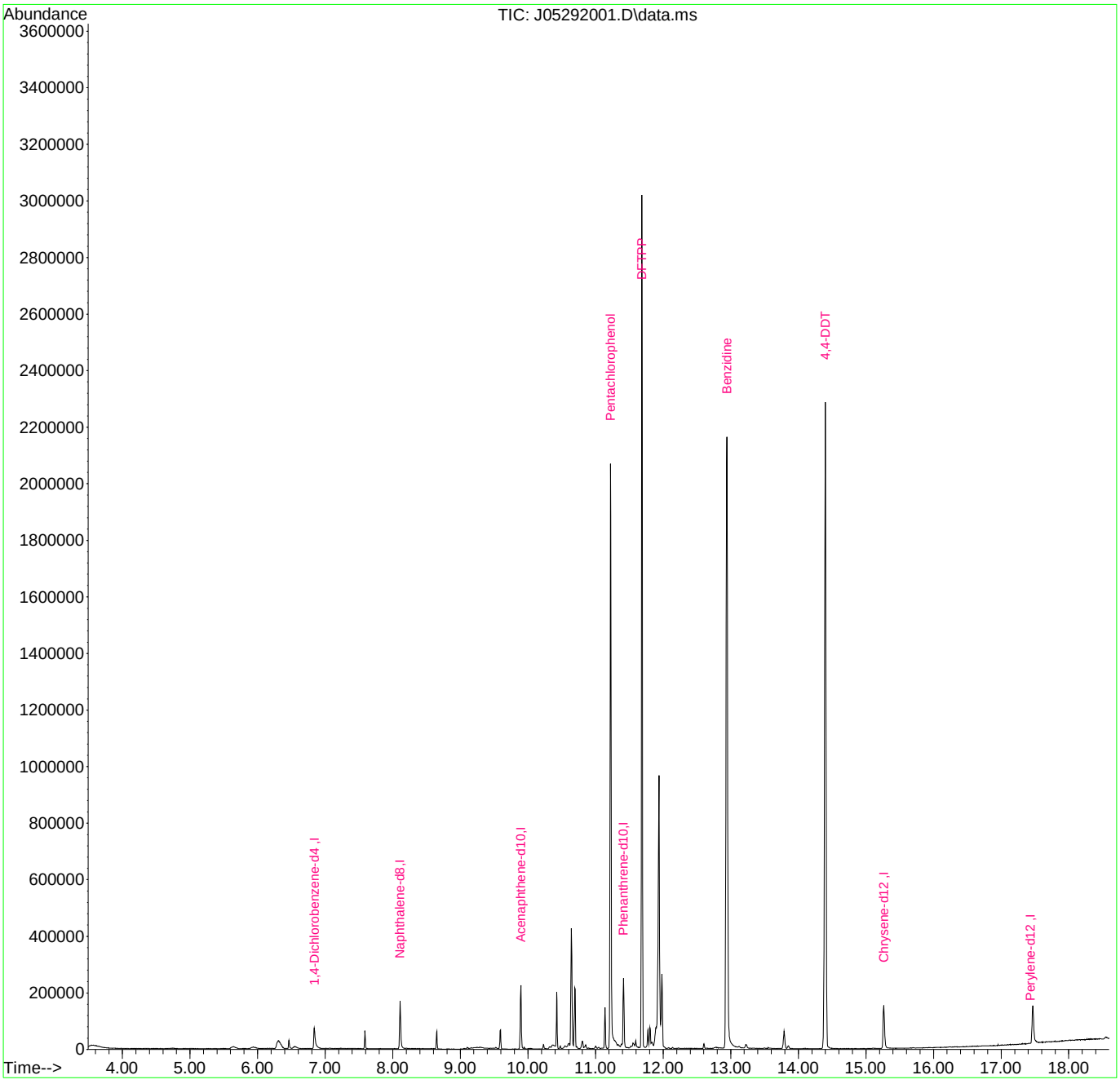
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	150	35413	2.00	ug/mL	0.00
2) Naphthalene-d8	8.108	136	104785	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.894	162	55878	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.414	188	102377	2.00	ug/mL	-0.01
11) Chrysene-d12	15.265	240	87880	2.00	ug/mL	-0.01
12) Perylene-d12	17.431	264	107	2.00	ug/mL	#-0.02
Target Compounds						Qvalue
4) Pentachlorophenol	11.221	266	311888	59.11	ug/mL	84
6) DFTPP	11.686	442	429823	52.01	ug/mL	77
7) Benzidine	12.943	184	1421274	39.02	ug/mL	96
8) 4,4-DDE	13.227	TIC	24593	No Calib		
9) 4,4-DDD	13.788	TIC	88420	No Calib		
10) 4,4-DDT	14.398	TIC	3629094	34.57	ug/mL	94

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292001.D
Acq On : 29 May 2020 8:03 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:21:26 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



DDT Breakdown Check (Validated 5/1/2013)

From:
0E29010-TUN1
SV-GCMS 10

First Column Area Counts		Percent Breakdown	
DDE	24593		
DDD	88420		
DDT	3629094	**3.02**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292001.D
Acq On : 29 May 2020 8:03 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:21:26 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration

(4) Pentachlorophenol

11.221min (-0.011) 59.11 ug/mL

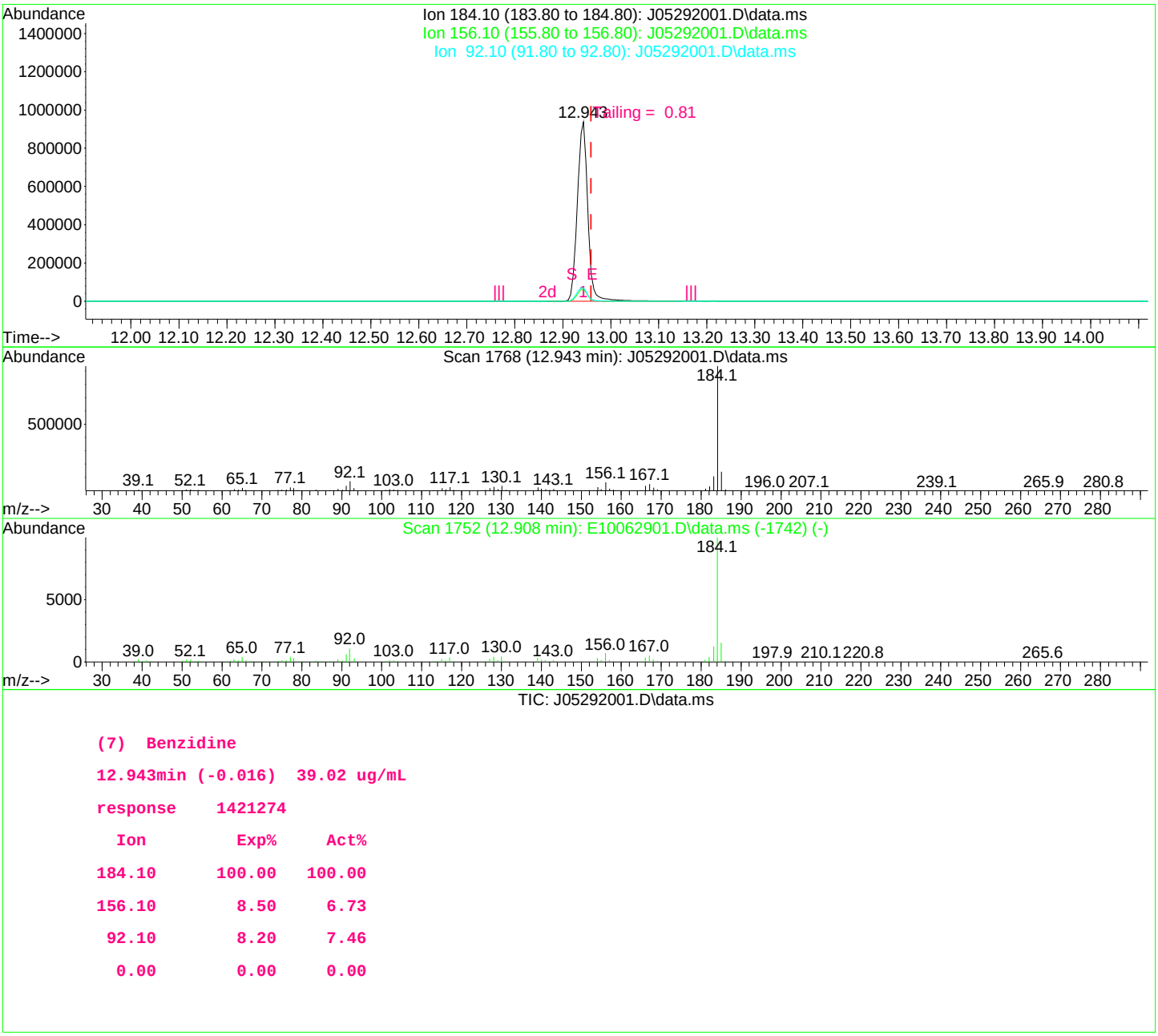
response 311888

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	37.38
201.90	25.80	22.17
129.90	27.30	17.01

Quantitation Report (Qedit)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292001.D
Acq On : 29 May 2020 8:03 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-TUN1
Misc : 1x, A20E130 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 10:21:26 2020
Quant Method : T:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



TIC: J05292001.D\data.ms

(7) Benzidine

12.943min (-0.016) 39.02 ug/mL

response 1421274

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.73
92.10	8.20	7.46
0.00	0.00	0.00

Evaluate Continuing Calibration Report

AMS 5/29/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4 (IST	2000.000	2000.000	0.0	69	-0.01
2	TG	N-Nitrosodimethylamine	1000.000	961.405	3.9	65	-0.05
3	TG	Pyridine	1000.000	1016.747	-1.7	70	-0.04
4	S	2-Fluorophenol (Surr)	1000.000	1019.489	-1.9	68	0.00
5	S	Phenol-d6(Surr)	1000.000	1118.335	-11.8	71	0.00
6	T	Phenol	1000.000	1195.399	-19.5	80	0.00
7	T	Aniline	1000.000	1191.707	-19.2	82	0.00
8	T	Bis(2-chloroethyl) ether	1000.000	978.207	2.2	62	0.00
9	T	2-Chlorophenol	1000.000	1068.517	-6.9	69	0.00
10	T	1,3-Dichlorobenzene	1000.000	969.647	3.0	66	0.00
11	T	1,4-Dichlorobenzene	1000.000	1011.878	-1.2	70	0.00
12	T	Benzyl alcohol	1000.000	1010.093	-1.0	64	0.00
13	T	1,2-Dichlorobenzene	1000.000	1033.739	-3.4	69	0.00
14	T	2-Methylphenol	1000.000	1084.336	-8.4	68	0.00
15	T	2,2’-Oxybis(1-Chloropropane	1000.000	1023.068	-2.3	67	-0.01
16	T	N-Nitrosodi-n-propylamine	1000.000	1094.782	-9.5	69	-0.01
17	T	3+4-Methylphenol	1000.000	1094.722	-9.5	68	0.00
18	T	Hexachloroethane	1000.000	998.211	0.2	67	0.00
19	S	Nitrobenzene-d5 (Surr)	1000.000	1123.042	-12.3	71	0.00
20	T	Nitrobenzene	1000.000	1114.276	-11.4	73	0.00
21	I	Naphthalene-d8 (ISTD)	2000.000	2000.000	0.0	68	0.00
22	T	Isophorone	1000.000	1045.009	-4.5	68	0.00
23	T	2-Nitrophenol	1000.000	1089.723	-9.0	67	0.00
24	T	2,4-Dimethylphenol	1000.000	1002.632	-0.3	62	0.00
25	T	Bis(2-chloroethoxy) methane	1000.000	1018.125	-1.8	67	0.00
26	T	Benzoic acid	2000.000	2166.452	-8.3	88	-0.02
27	T	2,4-Dichlorophenol	1000.000	1030.468	-3.0	65	0.00
28	T	1,2,4-Trichlorobenzene	1000.000	1013.463	-1.3	66	0.00
29	T	Naphthalene	1000.000	1045.863	-4.6	68	0.00
30	T	4-Chloroaniline	1000.000	1110.033	-11.0	67	0.00
31	T	Hexachlorobutadiene	1000.000	961.934	3.8	64	0.00
32	T	4-Chloro-3-methylphenol	1000.000	968.252	3.2	62	0.00
33	T	2-Methylnaphthalene	1000.000	987.693	1.2	64	-0.01

Evaluate Continuing Calibration Report

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
34	T	1-Methylnaphthalene	1000.000	970.025	3.0	64	-0.01
35	I	Acenaphthene-d10 (ISTD)	2000.000	2000.000	0.0	62	0.00
36	T	Hexachlorocyclopentadiene	1000.000	1120.497	-12.0	66	0.00
37	T	2,4,6-Trichlorophenol	1000.000	1060.595	-6.1	61	0.00
38	T	2,4,5-Trichlorophenol	1000.000	1026.937	-2.7	61	0.00
39	T	1,1'-Biphenyl	1000.000	1031.729	-3.2	61	-0.01
40	S	2-Fluorobiphenyl (Surr)	1000.000	1018.618	-1.9	61	0.00
41	T	2-Chloronaphthalene	1000.000	1045.903	-4.6	63	0.00
42	T	2-Nitroaniline	1000.000	1014.448	-1.4	59	0.00
43	T	2,6-Dimethylnaphthalene	1000.000	1027.807	-2.8	61	0.00
44	T	1,4-Dinitrobenzene	1000.000	1040.332	-4.0	62	0.00
45	T	Dimethyl phthalate	1000.000	962.843	3.7	57	-0.01
46	T	1,3-Dinitrobenzene	1000.000	1017.889	-1.8	61	0.00
47	T	2,6-Dinitrotoluene	1000.000	1021.408	-2.1	61	0.00
48	T	1,2-Dinitrobenzene	1000.000	999.709	0.0	59	0.00
49	T	Acenaphthylene	1000.000	1060.815	-6.1	62	0.00
50	T	3-Nitroaniline	1000.000	996.005	0.4	60	0.00
51	T	Acenaphthene	1000.000	1025.165	-2.5	61	0.00
52	T	2,4-Dinitrophenol	1000.000	1021.228	-2.1	70	0.00
53	T	4-Nitrophenol	1000.000	841.640	15.8	48	0.00
54	T	2,4-Dinitrotoluene	1000.000	975.072	2.5	59	0.00
55	T	Dibenzofuran	1000.000	1010.702	-1.1	60	-0.01
56	T	2,3,5,6-Tetrachlorophenol	1000.000	979.896	2.0	58	0.00
57	T	2,3,4,6-Tetrachlorophenol	1000.000	949.814	5.0	58	0.00
58	T	Diethyl phthalate	1000.000	1008.472	-0.8	59	-0.01
59	T	2,3,5-Trimethylnaphthalene	1000.000	990.066	1.0	58	0.00
60	T	Fluorene	1000.000	1021.832	-2.2	60	-0.01
61	T	4-Chlorophenyl phenyl ether	1000.000	956.145	4.4	58	-0.01
62	T	4-Nitroaniline	1000.000	1256.223	-25.6#	73	0.00
63	T	4,6-Dinitro-2-methylphenol	1000.000	968.359	3.2	62	0.00
64	I	Phenanthrene-d10 (ISTD)	2000.000	2000.000	0.0	57	-0.01
65	T	N-Nitrosodiphenylamine	1000.000	1102.410	-10.2	57	-0.01

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
66	T	Azobenzene (1,2-DPH)	1000.000	1079.921	-8.0	57	-0.01
67	S	2,4,6-Tribromophenol (Surr)	1000.000	1062.978	-6.3	57	0.00
68	T	4-Bromophenyl phenyl ether	1000.000	996.657	0.3	56	0.00
69	T	Hexachlorobenzene	1000.000	986.374	1.4	56	-0.01
70	T	Pentachlorophenol (PCP)	1000.000	949.224	5.1	51	0.00
71	T	Phenanthrene	1000.000	1019.211	-1.9	56	-0.01
72	T	Anthracene	1000.000	1076.417	-7.6	57	0.00
73	T	Carbazole	1000.000	1096.387	-9.6	60	-0.01
74	T	Di-n-butyl phthalate	1000.000	986.338	1.4	51	-0.01
75	T	Fluoranthene	1000.000	1024.009	-2.4	53	-0.01
76	T	Benzidine	2000.000	2360.913	-18.0	66	-0.01
77	T	Pyrene	1000.000	1072.695	-7.3	56	-0.01
78	I	Chrysene-d12 (ISTD)	2000.000	2000.000	0.0	58	-0.03
79	S	Terphenyl-d14 (Surr)	1000.000	1021.396	-2.1	56	-0.01
80	T	Butyl benzyl phthalate	1000.000	940.201	6.0	51	-0.02
81	T	Bis(2-ethylhexyl) adipate	1000.000	868.082	13.2	51	-0.03
82	T	3,3-Dichlorobenzidine	2000.000	5103.862	-155.2#	112	-0.02
83	T	Benz(a)anthracene	1000.000	980.677	1.9	56	-0.02
84	T	Chrysene	1000.000	994.185	0.6	56	-0.03
85	T	Bis(2-ethylhexyl) phthalate	1000.000	918.653	8.1	52	-0.03
86	I	Perylene-d12 (ISTD)	2000.000	2000.000	0.0	57	-0.03
87	T	Di-n-octyl phthalate	1000.000	910.636	8.9	51	-0.03
88	T	Benzo(b)fluoranthene	1000.000	1010.086	-1.0	55	-0.02
89	T	Benzo(k)fluoranthene	1000.000	1015.890	-1.6	55	-0.02
90	T	Benzo(b+k)fluoranthene	2000.000	2033.597	-1.7	56	-0.02
91	T	Benzo(e)pyrene	1000.000	1066.458	-6.6	55	-0.03
92	T	Benzo(a)pyrene	1000.000	1021.691	-2.2	54	-0.02
93	T	Perylene	1000.000	1034.131	-3.4	57	-0.02
94	I	Dibenz(a,h)Anthrcene-d14 (I	2000.000	2000.000	0.0	57	-0.03
95	T	Indeno(1,2,3-cd)pyrene	1000.000	933.340	6.7	55	-0.02
96	T	Dibenz(a,h)anthracene	1000.000	1029.062	-2.9	58	-0.03

Evaluate Continuing Calibration Report

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
97 T	Benzo(g,h,i)perylene	1000.000	1036.628	-3.7	54	-0.03

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.798	152	123991	2000.00	ng/ml	-0.01
21) Naphthalene-d8 (ISTD)	8.076	136	460954	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	211482	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	365719	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.377	240	377177	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.902	264	362380	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.303	292	311079	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	76738	1019.49	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	99100	1118.33	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	78498	1123.04	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	171616	1018.62	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	27555	1062.98	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	186992	1021.40	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.064	74	42868	961.41	ng/ml	93
3) Pyridine	4.107	79	74220	1016.75	ng/ml	94
6) Phenol	6.450	94	110008	1195.40	ng/ml	89
7) Aniline	6.477	93	110013	1191.71	ng/ml	92
8) Bis(2-chloroethyl) ether	6.530	93	79939	978.21	ng/ml	97
9) 2-Chlorophenol	6.600	128	89180	1068.52	ng/ml	96
10) 1,3-Dichlorobenzene	6.749	146	98274	969.65	ng/ml	99
11) 1,4-Dichlorobenzene	6.819	146	99350	1011.88	ng/ml	98
12) Benzyl alcohol	6.937	108	45228	1010.09	ng/ml	96
13) 1,2-Dichlorobenzene	6.974	146	97713	1033.74	ng/ml	96
14) 2-Methylphenol	7.044	107	64983	1084.34	ng/ml	99
15) 2,2’-Oxybis(1-Chloropr...	7.060	45	65170	1023.07	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.188	70	50876	1094.78	ng/ml	98
17) 3+4-Methylphenol	7.193	107	82224	1094.72	ng/ml	94
18) Hexachloroethane	7.311	201	35026	998.21	ng/ml	97
20) Nitrobenzene	7.365	77	77506	1114.28	ng/ml	96
22) Isophorone	7.600	82	141538	1045.01	ng/ml	97
23) 2-Nitrophenol	7.685	139	47331	1089.72	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	66141	1002.63	ng/ml	96
25) Bis(2-chloroethoxy) me...	7.809	93	85575	1018.12	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.792	105	49858	2166.45	ng/ml	95
27) 2,4-Dichlorophenol	7.932	162	68539	1030.47	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	85322	1013.46	ng/ml	97
29) Naphthalene	8.097	128	257530	1045.86	ng/ml	99
30) 4-Chloroaniline	8.145	127	86333	1110.03	ng/ml	96
31) Hexachlorobutadiene	8.226	225	49711	961.93	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	56094	968.25	ng/ml	97
33) 2-Methylnaphthalene	8.793	142	165498	987.69	ng/ml	98
34) 1-Methylnaphthalene	8.894	142	152557	970.03	ng/ml	97
36) Hexachlorocyclopentadiene	8.964	237	48430	1120.50	ng/ml	100
37) 2,4,6-Trichlorophenol	9.081	196	46233	1060.60	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	44568	1026.94	ng/ml	93
39) 1,1'-Biphenyl	9.263	154	183454	1031.73	ng/ml	99
41) 2-Chloronaphthalene	9.290	162	144454	1045.90	ng/ml	98
42) 2-Nitroaniline	9.386	138	38910	1014.45	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.429	156	132800	1027.81	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	19711	1040.33	ng/ml	93
45) Dimethyl phthalate	9.563	163	146632	962.84	ng/ml	99
46) 1,3-Dinitrobenzene	9.595	168	22907	1017.89	ng/ml	98
47) 2,6-Dinitrotoluene	9.627	165	35094	1021.41	ng/ml	94
48) 1,2-Dinitrobenzene	9.686	168	15857	999.71	ng/ml	88
49) Acenaphthylene	9.718	152	217604	1060.82	ng/ml	97
50) 3-Nitroaniline	9.804	138	30600	996.01	ng/ml	95
51) Acenaphthene	9.894	153	141974	1025.16	ng/ml	100
52) 2,4-Dinitrophenol	9.911	184	9613	1021.23	ng/ml	98
53) 4-Nitrophenol	9.969	139	18619	841.64	ng/ml	82
54) 2,4-Dinitrotoluene	10.039	165	42942	975.07	ng/ml	95
55) Dibenzofuran	10.066	168	193561	1010.70	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	10.151	232	35322	979.90	ng/ml	97
57) 2,3,4,6-Tetrachlorophenol	10.194	232	36612	949.81	ng/ml	95
58) Diethyl phthalate	10.280	149	145387	1008.47	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.280	170	116960	990.07	ng/ml	97
60) Fluorene	10.419	166	150682	1021.83	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.408	204	73472	956.14	ng/ml	98
62) 4-Nitroaniline	10.424	138	28553	1256.22	ng/ml	92
63) 4,6-Dinitro-2-methylph...	10.456	198	18880	968.36	ng/ml	92
65) N-Nitrosodiphenylamine	10.526	169	122533	1102.41	ng/ml	99
66) Azobenzene (1,2-DPH)	10.568	77	109367	1079.92	ng/ml	98

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

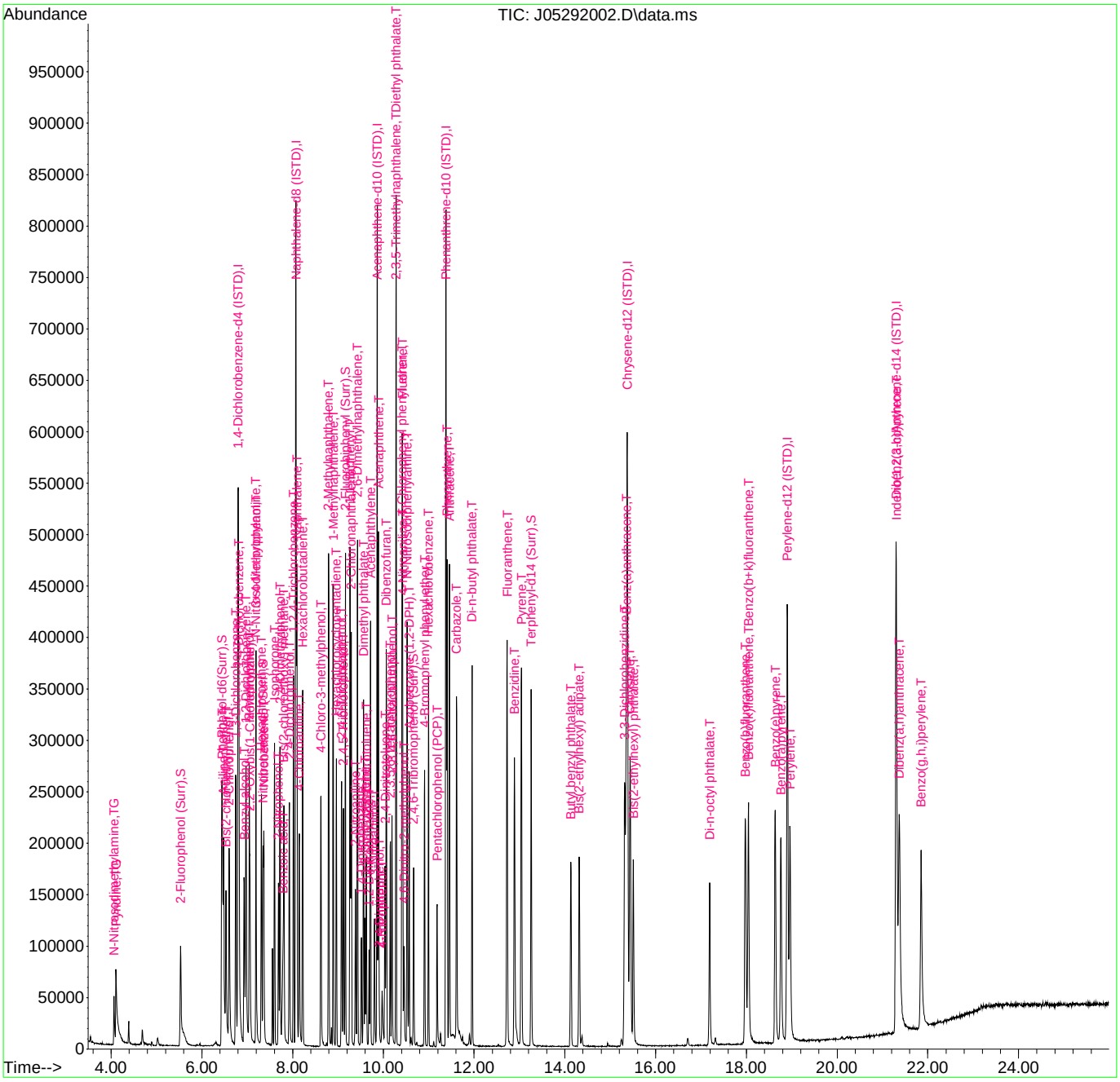
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	45538	996.66	ng/ml	96
69) Hexachlorobenzene	10.991	284	57747	986.37	ng/ml	96
70) Pentachlorophenol (PCP)	11.189	266	23098	949.22	ng/ml	97
71) Phenanthrene	11.403	178	209771	1019.21	ng/ml	99
72) Anthracene	11.456	178	212737	1076.42	ng/ml	98
73) Carbazole	11.611	167	179076	1096.39	ng/ml	99
74) Di-n-butyl phthalate	11.954	149	202951	986.34	ng/ml	98
75) Fluoranthene	12.729	202	226190	1024.01	ng/ml	97
76) Benzidine	12.890	184	181018	2360.91	ng/ml	98
77) Pyrene	13.045	202	237140	1072.69	ng/ml	98
80) Butyl benzyl phthalate	14.131	149	74742	940.20	ng/ml	92
81) Bis(2-ethylhexyl) adipate	14.312	129	63508	868.08	ng/ml	98
82) 3,3-Dichlorobenzidine	15.318	252	132751	5103.86	ng/ml	96
83) Benz(a)anthracene	15.355	228	209734	980.68	ng/ml	98
84) Chrysene	15.436	228	200274	994.18	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.511	149	106663	918.65	ng/ml	97
87) Di-n-octyl phthalate	17.190	149	151743	910.64	ng/ml	99
88) Benzo(b)fluoranthene	17.982	252	198623	1010.09	ng/ml	99
89) Benzo(k)fluoranthene	18.046	252	202385	1015.89	ng/ml	96
90) Benzo(b+k)fluoranthene	18.046	252	417472	2033.60	ng/ml	96
91) Benzo(e)pyrene	18.639	252	193163	1066.46	ng/ml	100
92) Benzo(a)pyrene	18.762	252	167736	1021.69	ng/ml	98
93) Perylene	18.966	252	180531	1034.13	ng/ml	100
95) Indeno(1,2,3-cd)pyrene	21.308	276	168800	933.34	ng/ml	92
96) Dibenz(a,h)anthracene	21.373	278	172946	1029.06	ng/ml	95
97) Benzo(g,h,i)perylene	21.849	276	177459	1036.63	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292002.D
Acq On : 29 May 2020 8:31 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCV1
Misc : 1x, A20D248@1000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:23:28 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 5/29/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292003.D
Acq On : 29 May 2020 9:07 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 10:24:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	120978	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	537656	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.863	162	246169	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.376	188	434471	2000.00	ng/ml	-0.02
78) Chrysene-d12 (ISTD)	15.372	240	420366	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.896	264	403687	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.298	292	349022	2000.00	ng/ml	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	13.270	244	52	0.25	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	4.139	79	54	N.D.		
6) Phenol	0.000		0	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	0.000		0	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		

Data Path : T:\data\2020-05\0E29010\
Data File : J05292003.D
Acq On : 29 May 2020 9:07 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 10:24:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	0.000		0	N.D.		
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	0.000		0	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	0.000		0	N.D.		
51) Acenaphthene	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	9.964	165	121	28.63	ng/ml#	32
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	0.000		0	N.D.		
59) 2,3,5-Trimethylnaphtha...	0.000		0	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292003.D
Acq On : 29 May 2020 9:07 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 10:24:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

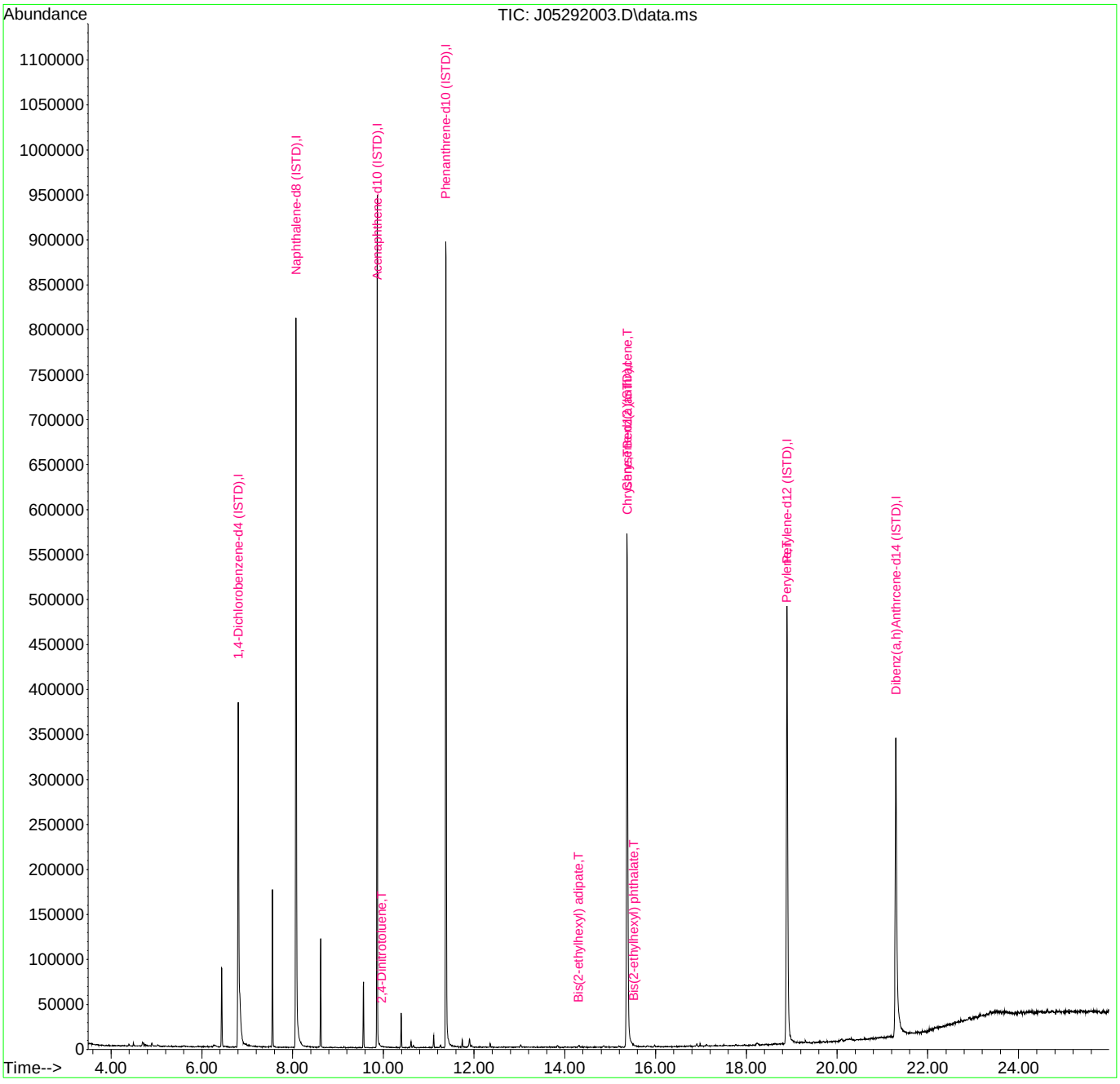
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.382	178	177	N.D.		
72) Anthracene	11.382	178	177	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butyl phthalate	11.895	149	144	N.D.		
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	0.000		0	N.D.		
77) Pyrene	0.000		0	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	14.302	129	884	10.84	ng/ml	84
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.377	228	967	4.06	ng/ml	64
84) Chrysene	15.377	228	967	4.31	ng/ml	62
85) Bis(2-ethylhexyl) phth...	15.511	149	495	3.83	ng/ml	95
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.891	252	1304	6.71	ng/ml#	69
95) Indeno(1,2,3-cd)pyrene	21.287	276	146	N.D.		
96) Dibenz(a,h)anthracene	21.357	278	149	N.D.		
97) Benzo(g,h,i)perylene	21.854	276	63	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292003.D
Acq On : 29 May 2020 9:07 am
Operator : JK/ AMS/ DTH
Sample : 0E29010-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 10:24:18 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 6/1/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292004.D
Acq On : 29 May 2020 9:45 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BLK1
Misc : 1x, 8270D LL Full List custom
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 10:45:16 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	156748	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	544769	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.863	162	253257	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.382	188	448506	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.372	240	451072	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.896	264	405569	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.298	292	369022	2000.00	ng/ml	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	151787	1595.12	ng/ml	0.00
5) Phenol-d6(Surr)	6.445	99	118118	1054.39	ng/ml	0.01
19) Nitrobenzene-d5 (Surr)	7.349	82	288476	3264.64	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	599010	2968.93	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	113250	3399.56	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	796523	3638.05	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.102	74	202m	3.58	ng/ml#	
3) Pyridine	4.204	79	1519m	16.46	ng/ml#	
6) Phenol	6.461	94	3162	27.18	ng/ml#	6
7) Aniline	6.439	93	106	N.D.		
8) Bis(2-chloroethyl) ether	6.520	93	2228	21.57	ng/ml#	40
9) 2-Chlorophenol	6.600	128	71	N.D.		
10) 1,3-Dichlorobenzene	6.808	146	155	N.D.		
11) 1,4-Dichlorobenzene	6.808	146	155	N.D.		
12) Benzyl alcohol	6.915	108	219	12.54	ng/ml#	1
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.049	107	237	3.13	ng/ml#	64
15) 2,2'-Oxybis(1-Chloropr...	7.092	45	261	3.24	ng/ml#	43
16) N-Nitrosodi-n-propylamine	7.188	70	86	N.D.		
17) 3+4-Methylphenol	7.188	107	322	3.39	ng/ml#	1
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.349	77	1177	13.39	ng/ml#	18
22) Isophorone	7.605	82	154	N.D.		
23) 2-Nitrophenol	7.702	139	73	N.D.		
24) 2,4-Dimethylphenol	7.734	122	56	N.D.		
25) Bis(2-chloroethoxy) me...	7.878	93	53	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292004.D
Acq On : 29 May 2020 9:45 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BLK1
Misc : 1x, 8270D LL Full List custom
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 10:45:16 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.830	105	392	739.77	ng/ml	74
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	8.098	128	4812	16.54	ng/ml	93
30) 4-Chloroaniline	8.098	127	638	6.94	ng/ml#	44
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.632	107	460	6.72	ng/ml#	33
33) 2-Methylnaphthalene	8.798	142	990	5.00	ng/ml	80
34) 1-Methylnaphthalene	8.894	142	711	3.83	ng/ml#	68
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	9.264	154	1723	8.09	ng/ml	85
41) 2-Chloronaphthalene	9.285	162	68	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	9.429	156	378	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.563	163	366	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	9.606	165	181	4.40	ng/ml#	40
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.718	152	82	N.D.		
50) 3-Nitroaniline	9.857	138	61	26.30	ng/ml#	1
51) Acenaphthene	9.895	153	505	3.05	ng/ml#	64
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	10.034	165	101	28.19	ng/ml#	56
55) Dibenzofuran	10.066	168	457	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	10.280	149	11102	64.31	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.274	170	248	N.D.		
60) Fluorene	10.419	166	353	N.D.		
61) 4-Chlorophenyl phenyl ...	10.408	204	72	N.D.		
62) 4-Nitroaniline	10.381	138	96	3.53	ng/ml#	35
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	10.579	169	86	N.D.		
66) Azobenzene (1,2-DPH)	10.585	77	348	2.80	ng/ml#	1

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292004.D
Acq On : 29 May 2020 9:45 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BLK1
Misc : 1x, 8270D LL Full List custom
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 10:45:16 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

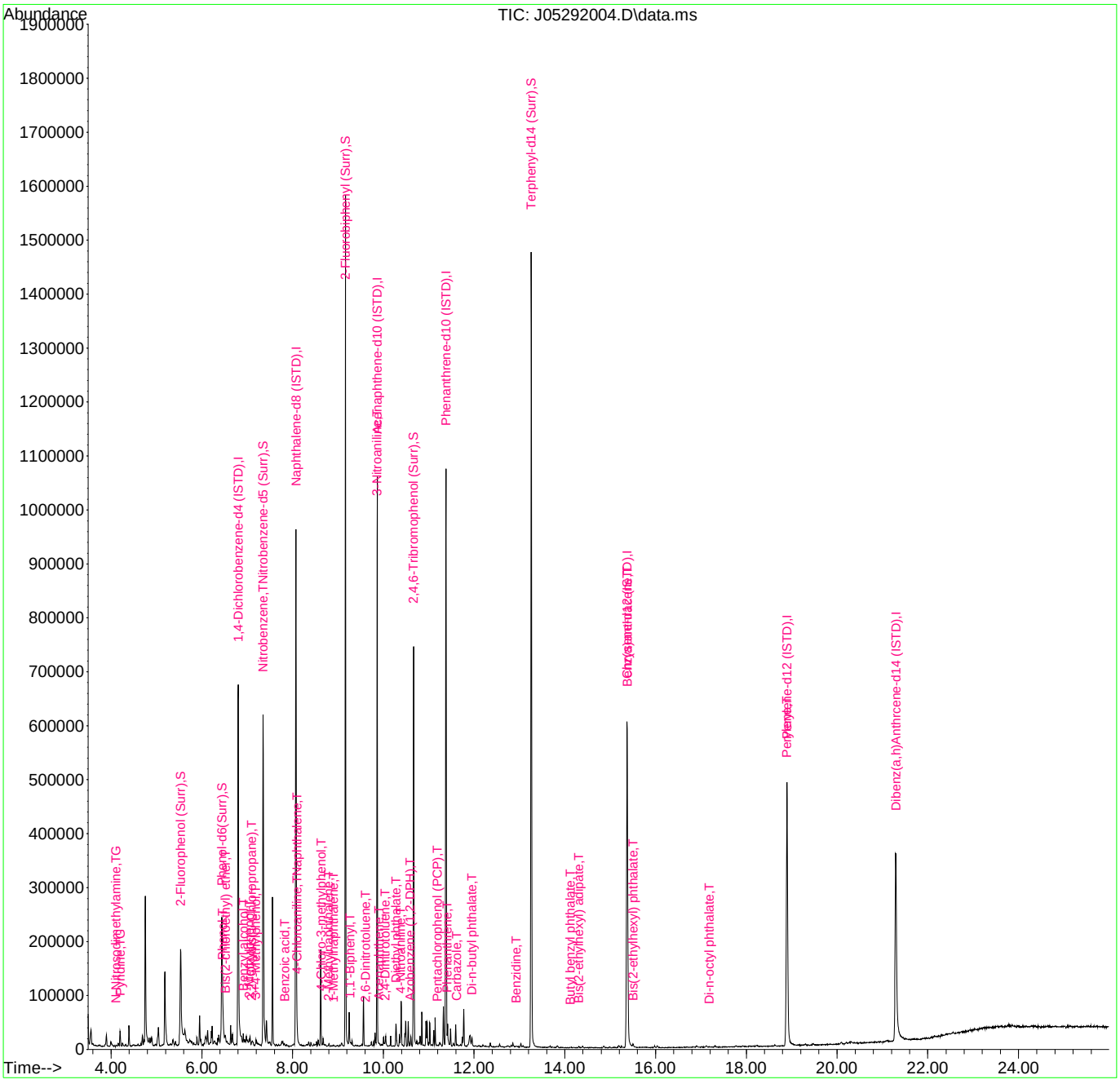
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	11.189	266	313	49.61	ng/ml	99
71) Phenanthrene	11.403	178	1608	6.37	ng/ml	97
72) Anthracene	11.451	178	171	N.D.		
73) Carbazole	11.617	167	119	6.94	ng/ml	61
74) Di-n-butyl phthalate	11.954	149	5219	20.68	ng/ml	89
75) Fluoranthene	12.724	202	664	N.D.		
76) Benzidine	12.933	184	52	135.35	ng/ml	67
77) Pyrene	13.040	202	467	N.D.		
80) Butyl benzyl phthalate	14.120	149	159	32.02	ng/ml	66
81) Bis(2-ethylhexyl) adipate	14.307	129	1044	11.93	ng/ml	87
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.377	228	1125	4.40	ng/ml	77
84) Chrysene	15.420	228	68	N.D.		
85) Bis(2-ethylhexyl) phth...	15.500	149	3015	21.71	ng/ml	91
87) Di-n-octyl phthalate	17.179	149	55	72.34	ng/ml#	1
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.891	252	1522	7.79	ng/ml	79
95) Indeno(1,2,3-cd)pyrene	21.309	276	244	N.D.		
96) Dibenz(a,h)anthracene	0.000		0	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292004.D
Acq On : 29 May 2020 9:45 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BLK1
Misc : 1x, 8270D LL Full List custom
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 10:45:16 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 6/1/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292005.D
Acq On : 29 May 2020 10:22 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BS1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 01 10:45:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	152625	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	538316	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	242369	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	422887	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.377	240	423940	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.902	264	421582	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.303	292	369523	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	77474	836.17	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	68943	632.05	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	146602	1703.89	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	321396	1664.52	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	55816	1829.82	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	385466	1873.26	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.075	74	41307m	752.60	ng/ml	
3) Pyridine	4.123	79	62091	691.01	ng/ml	93
6) Phenol	6.455	94	69926	617.29	ng/ml	90
7) Aniline	6.477	93	141106	1241.75	ng/ml	95
8) Bis(2-chloroethyl) ether	6.530	93	127118	1263.70	ng/ml	94
9) 2-Chlorophenol	6.600	128	126525	1231.56	ng/ml	98
10) 1,3-Dichlorobenzene	6.749	146	141173	1131.59	ng/ml	99
11) 1,4-Dichlorobenzene	6.819	146	142756	1181.19	ng/ml	99
12) Benzyl alcohol	6.937	108	61234	1107.81	ng/ml	95
13) 1,2-Dichlorobenzene	6.974	146	140684	1209.12	ng/ml	96
14) 2-Methylphenol	7.044	107	81672	1107.14	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	97560	1244.21	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.188	70	77438	1353.73	ng/ml	96
17) 3+4-Methylphenol	7.193	107	91484	989.50	ng/ml	95
18) Hexachloroethane	7.311	201	52557	1216.82	ng/ml	95
20) Nitrobenzene	7.370	77	113050	1320.36	ng/ml	99
22) Isophorone	7.600	82	218239	1379.75	ng/ml	96
23) 2-Nitrophenol	7.691	139	70787	1395.55	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	71833	932.43	ng/ml	95
25) Bis(2-chloroethoxy) me...	7.809	93	127510	1299.03	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292005.D
Acq On : 29 May 2020 10:22 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BS1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 01 10:45:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.792	105	43899	1826.33	ng/ml	96
27) 2,4-Dichlorophenol	7.932	162	105759	1361.55	ng/ml	98
28) 1,2,4-Trichlorobenzene	8.017	180	124505	1266.35	ng/ml	97
29) Naphthalene	8.097	128	362347	1260.06	ng/ml	99
30) 4-Chloroaniline	8.145	127	123856	1363.63	ng/ml	98
31) Hexachlorobutadiene	8.226	225	73239	1213.54	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	85648	1265.93	ng/ml	98
33) 2-Methylnaphthalene	8.798	142	245512	1254.65	ng/ml	98
34) 1-Methylnaphthalene	8.900	142	233016	1268.69	ng/ml	98
36) Hexachlorocyclopentadiene	8.964	237	71602	1445.50	ng/ml	99
37) 2,4,6-Trichlorophenol	9.081	196	73488	1463.07	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	72462	1451.97	ng/ml	94
39) 1,1'-Biphenyl	9.269	154	279815	1373.11	ng/ml	99
41) 2-Chloronaphthalene	9.290	162	215482	1361.35	ng/ml	97
42) 2-Nitroaniline	9.386	138	66716	1517.73	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.429	156	201937	1363.72	ng/ml	100
44) 1,4-Dinitrobenzene	9.515	168	33645	1512.56	ng/ml	97
45) Dimethyl phthalate	9.563	163	241026	1380.98	ng/ml	98
46) 1,3-Dinitrobenzene	9.595	168	37391	1449.76	ng/ml	95
47) 2,6-Dinitrotoluene	9.627	165	56306	1429.94	ng/ml	93
48) 1,2-Dinitrobenzene	9.686	168	25658	1411.47	ng/ml	84
49) Acenaphthylene	9.718	152	325633	1385.15	ng/ml	99
50) 3-Nitroaniline	9.804	138	48671	1459.30	ng/ml	93
51) Acenaphthene	9.894	153	214778	1353.23	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	21967	1736.88	ng/ml	99
53) 4-Nitrophenol	9.975	139	10777	451.46	ng/ml	88
54) 2,4-Dinitrotoluene	10.039	165	69426	1363.76	ng/ml	97
55) Dibenzofuran	10.071	168	287270	1308.86	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.151	232	58215	1385.31	ng/ml	99
57) 2,3,4,6-Tetrachlorophenol	10.194	232	61218	1372.32	ng/ml	99
58) Diethyl phthalate	10.280	149	214982	1301.18	ng/ml	100
59) 2,3,5-Trimethylnaphtha...	10.280	170	179226	1323.81	ng/ml	100
60) Fluorene	10.419	166	226698	1341.41	ng/ml	98
61) 4-Chlorophenyl phenyl ...	10.408	204	113400	1287.69	ng/ml	97
62) 4-Nitroaniline	10.429	138	43987	1688.63	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.461	198	33689	1415.58	ng/ml	96
65) N-Nitrosodiphenylamine	10.531	169	184171	1432.96	ng/ml	99
66) Azobenzene (1,2-DPH)	10.574	77	169568	1448.01	ng/ml	96

Data Path : T:\data\2020-05\0E29010\
Data File : J05292005.D
Acq On : 29 May 2020 10:22 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BS1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 01 10:45:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

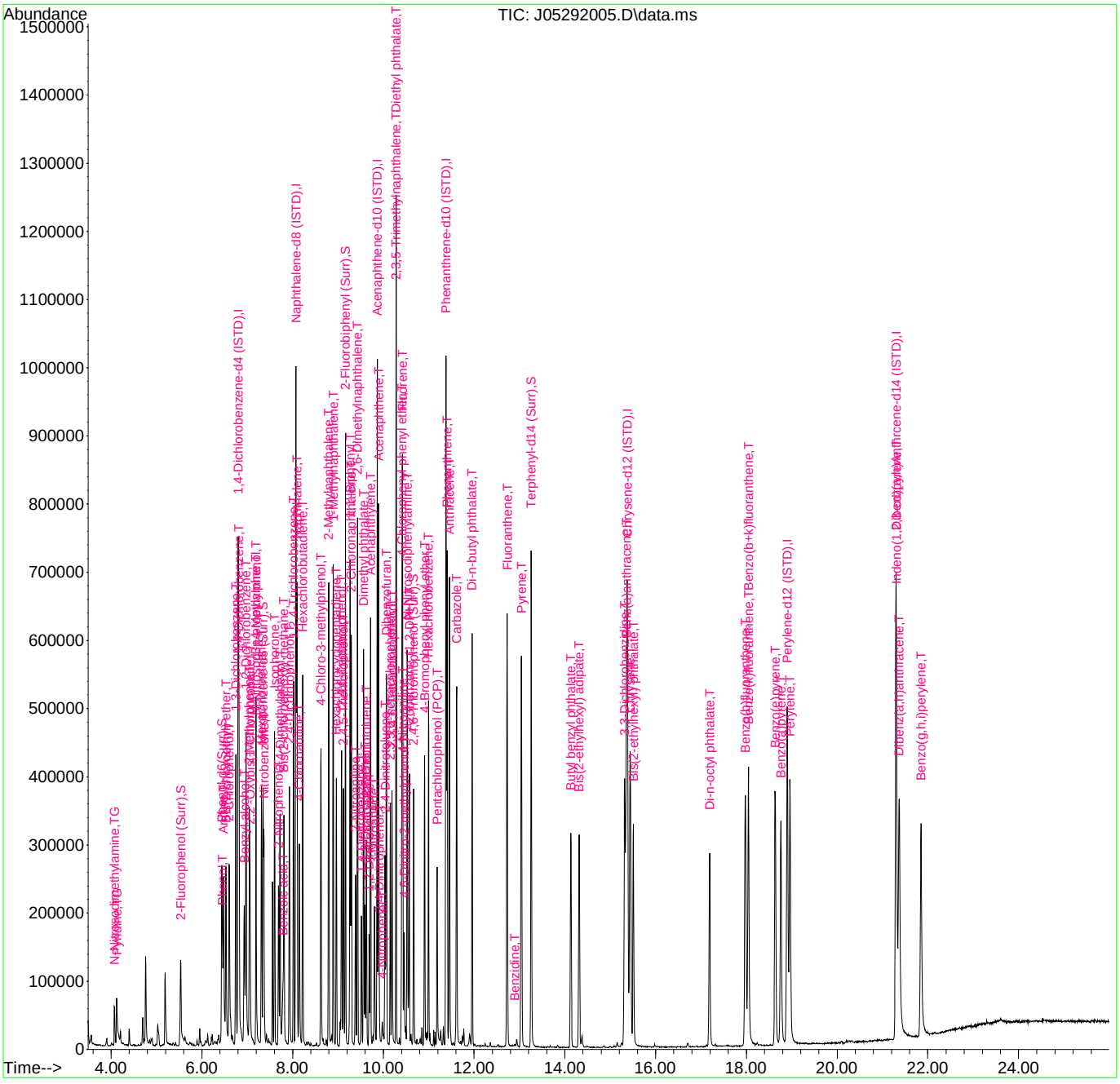
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	71922	1361.31	ng/ml	98
69) Hexachlorobenzene	10.991	284	87112	1286.81	ng/ml	95
70) Pentachlorophenol (PCP)	11.189	266	40925	1405.54	ng/ml	99
71) Phenanthrene	11.403	178	320902	1348.39	ng/ml	100
72) Anthracene	11.456	178	311832	1364.52	ng/ml	99
73) Carbazole	11.617	167	287294	1656.58	ng/ml	99
74) Di-n-butyl phthalate	11.954	149	343863	1445.25	ng/ml	99
75) Fluoranthene	12.729	202	362691	1420.01	ng/ml	96
76) Benzidine	12.895	184	2907	165.45	ng/ml	75
77) Pyrene	13.045	202	368728	1442.45	ng/ml	99
80) Butyl benzyl phthalate	14.131	149	136531	1482.86	ng/ml	96
81) Bis(2-ethylhexyl) adipate	14.312	129	113223	1376.92	ng/ml	98
82) 3,3-Dichlorobenzidine	15.318	252	192396	6781.40	ng/ml	95
83) Benz(a)anthracene	15.355	228	338597	1408.58	ng/ml	99
84) Chrysene	15.441	228	325210	1436.31	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.511	149	190825	1462.22	ng/ml	98
87) Di-n-octyl phthalate	17.190	149	284176	1399.18	ng/ml	99
88) Benzo(b)fluoranthene	17.982	252	338017	1461.59	ng/ml	97
89) Benzo(k)fluoranthene	18.046	252	339921	1465.87	ng/ml	97
90) Benzo(b+k)fluoranthene	18.046	252	701964	2926.94	ng/ml	97
91) Benzo(e)pyrene	18.634	252	324832	1541.56	ng/ml	99
92) Benzo(a)pyrene	18.763	252	277402	1440.24	ng/ml	98
93) Perylene	18.960	252	325830	1604.34	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.308	276	290870	1353.93	ng/ml	91
96) Dibenz(a,h)anthracene	21.367	278	286702	1436.12	ng/ml	94
97) Benzo(g,h,i)perylene	21.849	276	297343	1462.22	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292005.D
Acq On : 29 May 2020 10:22 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BS1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 01 10:45:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 6/1/20

Q19

Data Path : T:\data\2020-05\0E29010\
Data File : J05292006.D
Acq On : 29 May 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BSD1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 01 10:45:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	159186	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	484713	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	214381	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	433687	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.377	240	443138	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.902	264	427922	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.303	292	376685	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	84091	870.18	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	71805	631.16	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	138031	1538.15	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	269131	1575.81	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	54105	1733.00	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	388789	1807.55	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.091	74	50883	888.86	ng/ml	92
3) Pyridine	4.139	79	75015	800.43	ng/ml	93
6) Phenol	6.455	94	72241	611.45	ng/ml	92
7) Aniline	6.477	93	139796	1179.52	ng/ml	94
8) Bis(2-chloroethyl) ether	6.530	93	121342	1156.56	ng/ml	96
9) 2-Chlorophenol	6.605	128	133276	1243.80	ng/ml	98
10) 1,3-Dichlorobenzene	6.750	146	146257	1124.03	ng/ml	99
11) 1,4-Dichlorobenzene	6.819	146	141811	1125.01	ng/ml	100
12) Benzyl alcohol	6.937	108	58877	1023.78	ng/ml	91
13) 1,2-Dichlorobenzene	6.974	146	143034	1178.65	ng/ml	98
14) 2-Methylphenol	7.044	107	77960	1013.26	ng/ml	99
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	95751	1170.81	ng/ml	97
16) N-Nitrosodi-n-propylamine	7.193	70	70617	1183.61	ng/ml	96
17) 3+4-Methylphenol	7.193	107	87570	908.13	ng/ml	94
18) Hexachloroethane	7.311	201	54510	1210.02	ng/ml	94
20) Nitrobenzene	7.365	77	108119	1210.72	ng/ml	91
22) Isophorone	7.600	82	200540	1408.06	ng/ml	97
23) 2-Nitrophenol	7.686	139	65785	1440.36	ng/ml	86
24) 2,4-Dimethylphenol	7.723	122	55264	796.68	ng/ml	93
25) Bis(2-chloroethoxy) me...	7.809	93	112705	1275.18	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292006.D
Acq On : 29 May 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BSD1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 01 10:45:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.793	105	41924	1890.12	ng/ml	95
27) 2,4-Dichlorophenol	7.932	162	94289	1348.13	ng/ml	96
28) 1,2,4-Trichlorobenzene	8.017	180	110266	1245.55	ng/ml	98
29) Naphthalene	8.097	128	320415	1237.46	ng/ml	99
30) 4-Chloroaniline	8.146	127	105663	1291.98	ng/ml	94
31) Hexachlorobutadiene	8.226	225	65533	1205.94	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	75278	1235.70	ng/ml	98
33) 2-Methylnaphthalene	8.798	142	200900	1140.20	ng/ml	97
34) 1-Methylnaphthalene	8.894	142	189996	1148.86	ng/ml	98
36) Hexachlorocyclopentadiene	8.964	237	62090	1417.11	ng/ml	99
37) 2,4,6-Trichlorophenol	9.082	196	61937	1395.19	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	63722	1443.61	ng/ml	99
39) 1,1'-Biphenyl	9.263	154	232905	1292.12	ng/ml	98
41) 2-Chloronaphthalene	9.290	162	178163	1272.53	ng/ml	97
42) 2-Nitroaniline	9.386	138	59502	1530.34	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.429	156	168223	1284.36	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	29508	1500.56	ng/ml	95
45) Dimethyl phthalate	9.563	163	217290	1407.52	ng/ml	99
46) 1,3-Dinitrobenzene	9.595	168	34146	1496.78	ng/ml	97
47) 2,6-Dinitrotoluene	9.627	165	50449	1448.46	ng/ml	95
48) 1,2-Dinitrobenzene	9.686	168	23954	1489.77	ng/ml	91
49) Acenaphthylene	9.718	152	282273	1357.47	ng/ml	99
50) 3-Nitroaniline	9.804	138	48290	1686.17	ng/ml	97
51) Acenaphthene	9.895	153	184776	1316.19	ng/ml	99
52) 2,4-Dinitrophenol	9.905	184	20536	1812.94	ng/ml	92
53) 4-Nitrophenol	9.975	139	12613	581.27	ng/ml	93
54) 2,4-Dinitrotoluene	10.039	165	64544	1431.87	ng/ml	95
55) Dibenzofuran	10.066	168	266494	1372.71	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.151	232	56794	1521.21	ng/ml	95
57) 2,3,4,6-Tetrachlorophenol	10.194	232	60011	1517.71	ng/ml	97
58) Diethyl phthalate	10.280	149	203385	1391.70	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.280	170	162455	1356.59	ng/ml	99
60) Fluorene	10.419	166	211898	1417.53	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.408	204	105957	1360.25	ng/ml	97
62) 4-Nitroaniline	10.429	138	45549	1976.88	ng/ml	93
63) 4,6-Dinitro-2-methylph...	10.456	198	34403	1605.45	ng/ml	93
65) N-Nitrosodiphenylamine	10.526	169	181205	1374.77	ng/ml	98
66) Azobenzene (1,2-DPH)	10.568	77	159510	1328.20	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292006.D
Acq On : 29 May 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BSD1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 01 10:45:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

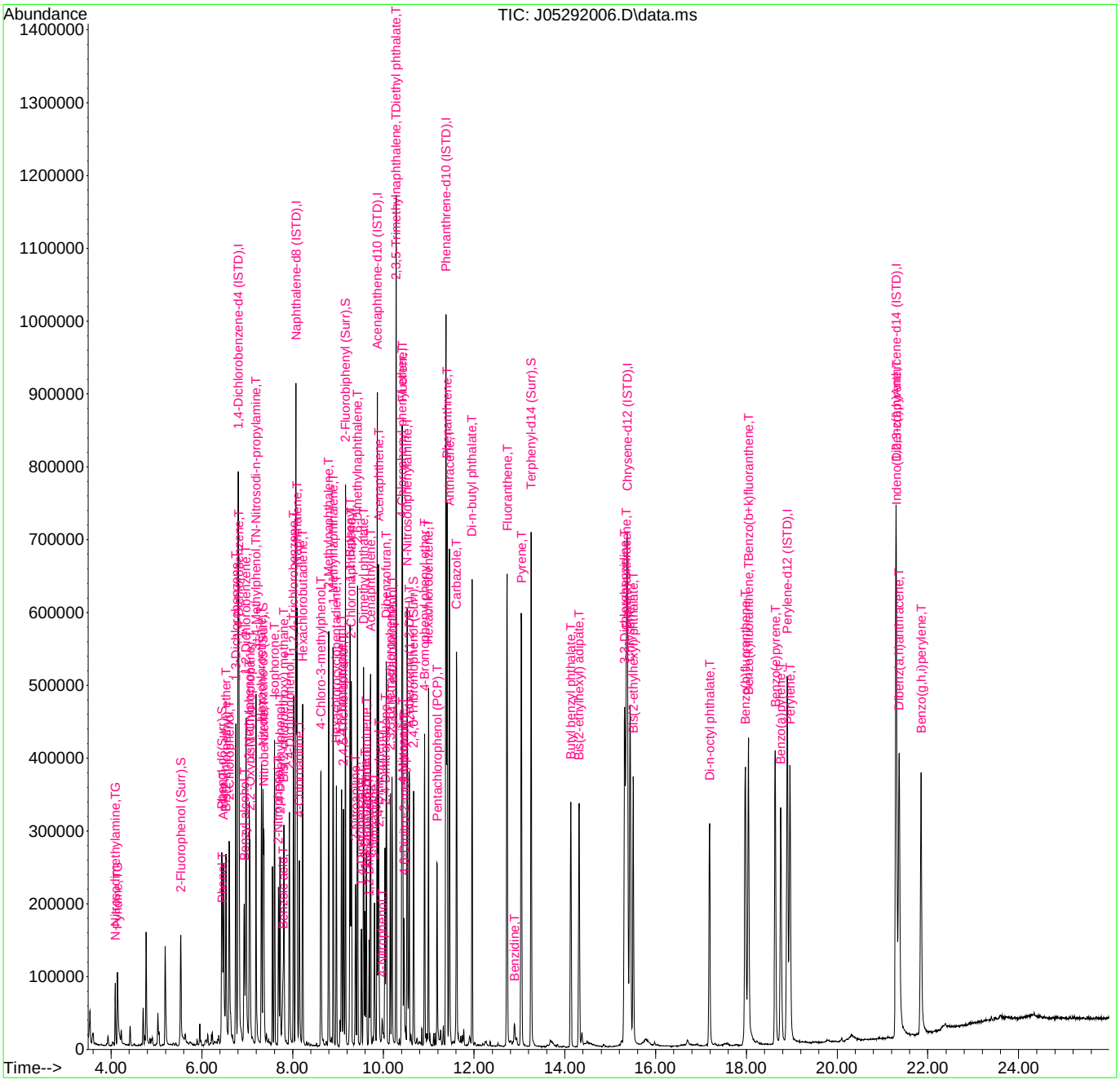
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	70817	1307.01	ng/ml	99
69) Hexachlorobenzene	10.991	284	83046	1196.20	ng/ml	97
70) Pentachlorophenol (PCP)	11.189	266	42141	1410.78	ng/ml	98
71) Phenanthrene	11.403	178	333589	1366.79	ng/ml	100
72) Anthracene	11.456	178	321252	1370.74	ng/ml	99
73) Carbazole	11.611	167	290189	1622.82	ng/ml	99
74) Di-n-butyl phthalate	11.954	149	356829	1462.40	ng/ml	100
75) Fluoranthene	12.729	202	370613	1414.89	ng/ml	96
76) Benzidine	12.890	184	20445	344.93	ng/ml	93
77) Pyrene	13.045	202	374247	1427.58	ng/ml	99
80) Butyl benzyl phthalate	14.131	149	141189	1468.04	ng/ml	95
81) Bis(2-ethylhexyl) adipate	14.313	129	118026	1373.14	ng/ml	98
82) 3,3-Dichlorobenzidine	15.318	252	230886	7898.02	ng/ml	98
83) Benz(a)anthracene	15.350	228	356456	1418.63	ng/ml	99
84) Chrysene	15.436	228	339309	1433.65	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.505	149	208966	1531.86	ng/ml	99
87) Di-n-octyl phthalate	17.190	149	318475	1530.70	ng/ml	99
88) Benzo(b)fluoranthene	17.982	252	351844	1497.64	ng/ml	95
89) Benzo(k)fluoranthene	18.046	252	353894	1503.56	ng/ml	96
90) Benzo(b+k)fluoranthene	18.046	252	728849	2993.26	ng/ml	96
91) Benzo(e)pyrene	18.640	252	336551	1573.51	ng/ml	98
92) Benzo(a)pyrene	18.757	252	289305	1478.76	ng/ml	98
93) Perylene	18.966	252	335591	1627.92	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.309	276	310093	1415.96	ng/ml	94
96) Dibenz(a,h)anthracene	21.367	278	302554	1486.71	ng/ml	95
97) Benzo(g,h,i)perylene	21.854	276	318828	1538.06	ng/ml	90

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292006.D
Acq On : 29 May 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0051024-BSD1@2
Misc : 2x, 8270D LL Full List custom
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 01 10:45:55 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

DTH 5/29/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292007.D
Acq On : 29 May 2020 11:36 am
Operator : JK/ AMS/ DTH
Sample : A0E0669-01RE3
Misc : 1x, 8270D LL Full List custom
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:54:57 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	156235	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	508661	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	233481	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	444366	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.377	240	454381	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.896	264	429388	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.298	292	380798	2000.00	ng/ml	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	107627	1134.76	ng/ml	0.01
5) Phenol-d6(Surr)	6.445	99	88389	791.60	ng/ml	0.01
19) Nitrobenzene-d5 (Surr)	7.348	82	230058	2612.08	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	490532	2637.20	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	115802	3502.22	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	790251	3583.12	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.123	74	85	N.D.		
3) Pyridine	4.225	79	1142m	12.42	ng/ml#	
6) Phenol	6.461	94	2573	22.19	ng/ml#	15
7) Aniline	6.461	93	658	5.66	ng/ml#	1
8) Bis(2-chloroethyl) ether	6.519	93	1924	18.68	ng/ml#	44
9) 2-Chlorophenol	6.610	128	98	N.D.		
10) 1,3-Dichlorobenzene	6.819	146	187	N.D.		
11) 1,4-Dichlorobenzene	6.819	146	187	N.D.		
12) Benzyl alcohol	6.915	108	175	11.76	ng/ml#	1
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.054	107	331	4.38	ng/ml#	52
15) 2,2'-Oxybis(1-Chloropr...	7.060	45	163	N.D.		
16) N-Nitrosodi-n-propylamine	7.188	70	320	5.46	ng/ml#	49
17) 3+4-Methylphenol	7.193	107	408	4.31	ng/ml#	1
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.391	77	110	N.D.		
22) Isophorone	7.605	82	520	3.48	ng/ml	83
23) 2-Nitrophenol	7.691	139	88	N.D.		
24) 2,4-Dimethylphenol	7.728	122	103	N.D.		
25) Bis(2-chloroethoxy) me...	7.819	93	174	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292007.D
Acq On : 29 May 2020 11:36 am
Operator : JK/ AMS/ DTH
Sample : A0E0669-01RE3
Misc : 1x, 8270D LL Full List custom
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:54:57 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.776	105	4132	842.99	ng/ml	91
27) 2,4-Dichlorophenol	7.931	162	55	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	8.097	128	3496	12.87	ng/ml	99
30) 4-Chloroaniline	8.145	127	141	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.638	107	623	9.75	ng/ml#	50
33) 2-Methylnaphthalene	8.793	142	747	4.04	ng/ml	74
34) 1-Methylnaphthalene	8.900	142	671	3.87	ng/ml	88
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	9.081	196	112	13.43	ng/ml#	36
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	9.263	154	1633	8.32	ng/ml	97
41) 2-Chloronaphthalene	9.295	162	64	N.D.		
42) 2-Nitroaniline	9.392	138	52	N.D.		
43) 2,6-Dimethylnaphthalene	9.434	156	286	N.D.		
44) 1,4-Dinitrobenzene	9.531	168	125	37.75	ng/ml#	17
45) Dimethyl phthalate	9.557	163	446	2.65	ng/ml#	1
46) 1,3-Dinitrobenzene	9.531	168	125	5.03	ng/ml	52
47) 2,6-Dinitrotoluene	9.611	165	453	11.94	ng/ml#	64
48) 1,2-Dinitrobenzene	9.670	168	79	4.51	ng/ml#	60
49) Acenaphthylene	9.718	152	208	N.D.		
50) 3-Nitroaniline	9.809	138	339	33.52	ng/ml#	34
51) Acenaphthene	9.894	153	568	3.71	ng/ml	85
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.953	139	98	46.14	ng/ml#	1
54) 2,4-Dinitrotoluene	10.034	165	256	31.46	ng/ml#	28
55) Dibenzofuran	10.066	168	516	N.D.		
56) 2,3,5,6-Tetrachlorophenol	10.146	232	91	37.48	ng/ml#	51
57) 2,3,4,6-Tetrachlorophenol	10.199	232	124	32.01	ng/ml#	34
58) Diethyl phthalate	10.280	149	2005	12.60	ng/ml	94
59) 2,3,5-Trimethylnaphtha...	10.280	170	251	N.D.		
60) Fluorene	10.419	166	459	2.82	ng/ml	89
61) 4-Chlorophenyl phenyl ...	10.408	204	108	N.D.		
62) 4-Nitroaniline	10.440	138	148	5.90	ng/ml	80
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	10.526	169	177	N.D.		
66) Azobenzene (1,2-DPH)	10.584	77	817	6.64	ng/ml#	1

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292007.D
Acq On : 29 May 2020 11:36 am
Operator : JK/ AMS/ DTH
Sample : A0E0669-01RE3
Misc : 1x, 8270D LL Full List custom
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:54:57 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

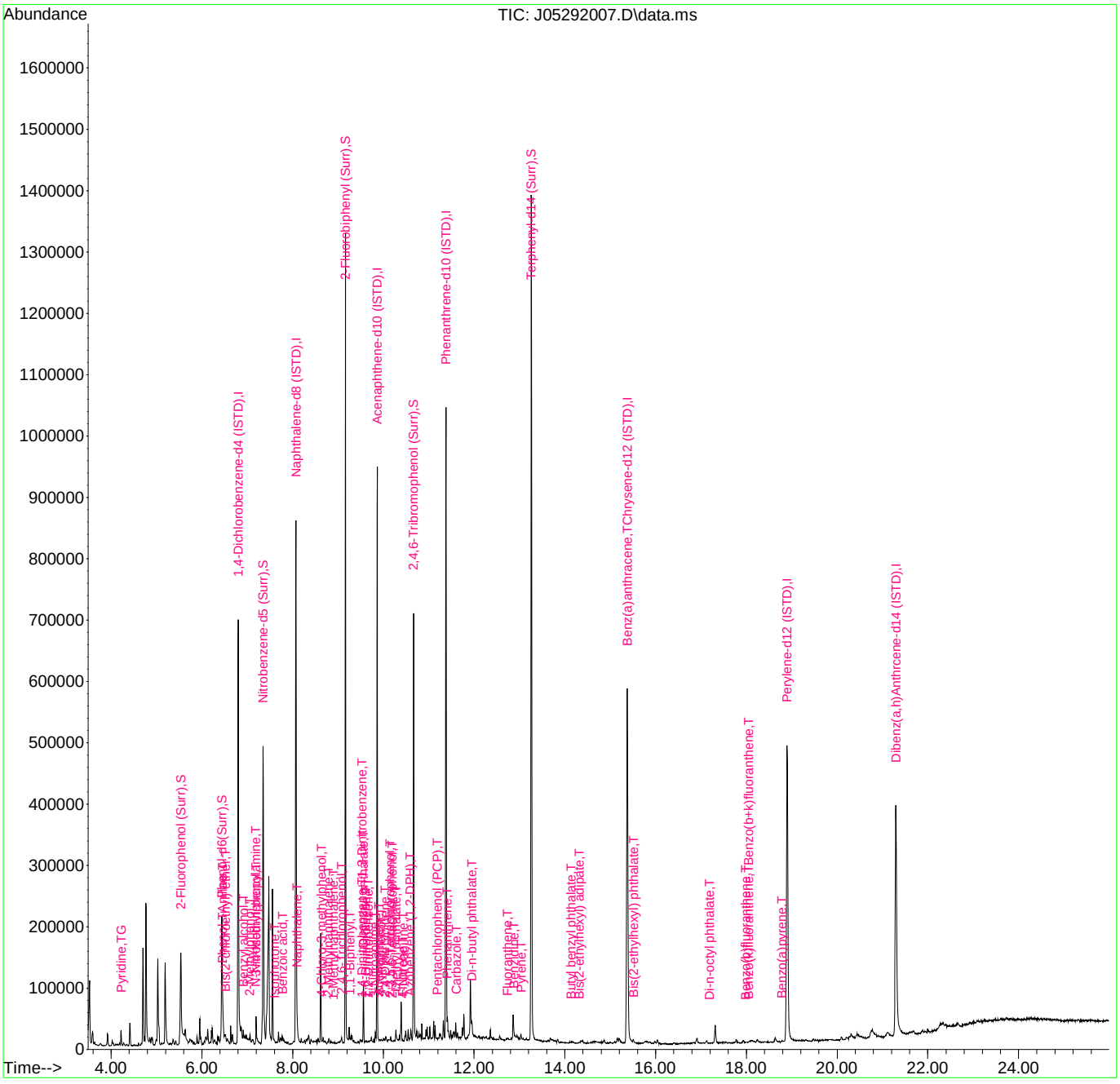
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	11.183	266	376	51.84	ng/ml	74
71) Phenanthrene	11.403	178	1745	6.98	ng/ml	93
72) Anthracene	11.456	178	242	N.D.		
73) Carbazole	11.611	167	157	7.10	ng/ml	62
74) Di-n-butyl phthalate	11.954	149	5091	20.36	ng/ml	94
75) Fluoranthene	12.729	202	969	3.61	ng/ml	77
76) Benzidine	12.879	184	65	135.49	ng/ml#	1
77) Pyrene	13.039	202	714	2.66	ng/ml	83
80) Butyl benzyl phthalate	14.136	149	662	37.24	ng/ml#	53
81) Bis(2-ethylhexyl) adipate	14.318	129	881	10.00	ng/ml	93
82) 3,3-Dichlorobenzidine	15.307	252	108	Below Cal	#	50
83) Benz(a)anthracene	15.377	228	1218	4.73	ng/ml#	54
84) Chrysene	15.430	228	336	N.D.		
85) Bis(2-ethylhexyl) phth...	15.516	149	2812	20.10	ng/ml	98
87) Di-n-octyl phthalate	17.185	149	229	73.16	ng/ml#	1
88) Benzo(b)fluoranthene	17.987	252	82	8.51	ng/ml	73
89) Benzo(k)fluoranthene	18.046	252	99	9.54	ng/ml	57
90) Benzo(b+k)fluoranthene	18.046	252	99	16.70	ng/ml	57
91) Benzo(e)pyrene	18.634	252	92	N.D.		
92) Benzo(a)pyrene	18.779	252	59	9.61	ng/ml	60
93) Perylene	18.966	252	86	N.D.		
95) Indeno(1,2,3-cd)pyrene	21.303	276	272	N.D.		
96) Dibenz(a,h)anthracene	21.378	278	82	N.D.		
97) Benzo(g,h,i)perylene	21.865	276	99	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292007.D
Acq On : 29 May 2020 11:36 am
Operator : JK/ AMS/ DTH
Sample : A0E0669-01RE3
Misc : 1x, 8270D LL Full List custom
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 16:54:57 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

DTH 5/29/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292009.D
Acq On : 29 May 2020 1:10 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:57:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	163716	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	497765	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.863	162	206944	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.376	188	382361	2000.00	ng/ml	-0.02
78) Chrysene-d12 (ISTD)	15.372	240	418713	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.902	264	405140	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.298	292	359253	2000.00	ng/ml	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.541	112	56694	570.44	ng/ml	0.02
5) Phenol-d6(Surr)	6.455	99	46573	398.04	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.354	82	143996	1560.22	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	266320	1615.39	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	48933	1776.15	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	415967	2046.72	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.150	74	261m	4.43	ng/ml#	
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.461	94	447	3.68	ng/ml#	1
7) Aniline	6.466	93	178	N.D.		
8) Bis(2-chloroethyl) ether	6.525	93	768	7.12	ng/ml#	42
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	6.814	146	54	N.D.		
12) Benzyl alcohol	6.948	108	80	9.99	ng/ml	85
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.055	107	155	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	7.060	45	75	N.D.		
16) N-Nitrosodi-n-propylamine	7.188	70	113	N.D.		
17) 3+4-Methylphenol	7.204	107	220	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.349	77	706	7.69	ng/ml#	16
22) Isophorone	7.611	82	342	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	7.782	122	847	11.89	ng/ml#	8
25) Bis(2-chloroethoxy) me...	7.825	93	82	N.D.		

Data Path : T:\data\2020-05\0E29010\
Data File : J05292009.D
Acq On : 29 May 2020 1:10 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:57:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.825	105	174	734.59	ng/ml#	64
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	8.097	128	73091	274.88	ng/ml	98
30) 4-Chloroaniline	8.151	127	114	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.638	107	245	3.92	ng/ml#	1
33) 2-Methylnaphthalene	8.798	142	3722	20.57	ng/ml	83
34) 1-Methylnaphthalene	8.900	142	2863	16.86	ng/ml	78
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	9.264	154	1640	9.43	ng/ml	92
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	9.440	156	1472	11.64	ng/ml	95
44) 1,4-Dinitrobenzene	9.558	168	136	39.11	ng/ml#	1
45) Dimethyl phthalate	9.563	163	210	N.D.		
46) 1,3-Dinitrobenzene	9.558	168	136	6.18	ng/ml#	22
47) 2,6-Dinitrotoluene	9.606	165	147	4.37	ng/ml#	63
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.713	152	293	N.D.		
50) 3-Nitroaniline	9.847	138	52	26.36	ng/ml#	1
51) Acenaphthene	9.895	153	2053	15.15	ng/ml	87
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.964	139	189	50.74	ng/ml#	1
54) 2,4-Dinitrotoluene	10.039	165	202	30.90	ng/ml#	32
55) Dibenzofuran	10.071	168	743	3.96	ng/ml	90
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	10.274	149	937	6.64	ng/ml	76
59) 2,3,5-Trimethylnaphtha...	10.280	170	1795	15.53	ng/ml	83
60) Fluorene	10.424	166	1421	9.85	ng/ml#	63
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	10.462	138	52	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	10.531	169	701	6.03	ng/ml	85
66) Azobenzene (1,2-DPH)	10.547	77	127	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292009.D
Acq On : 29 May 2020 1:10 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:57:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

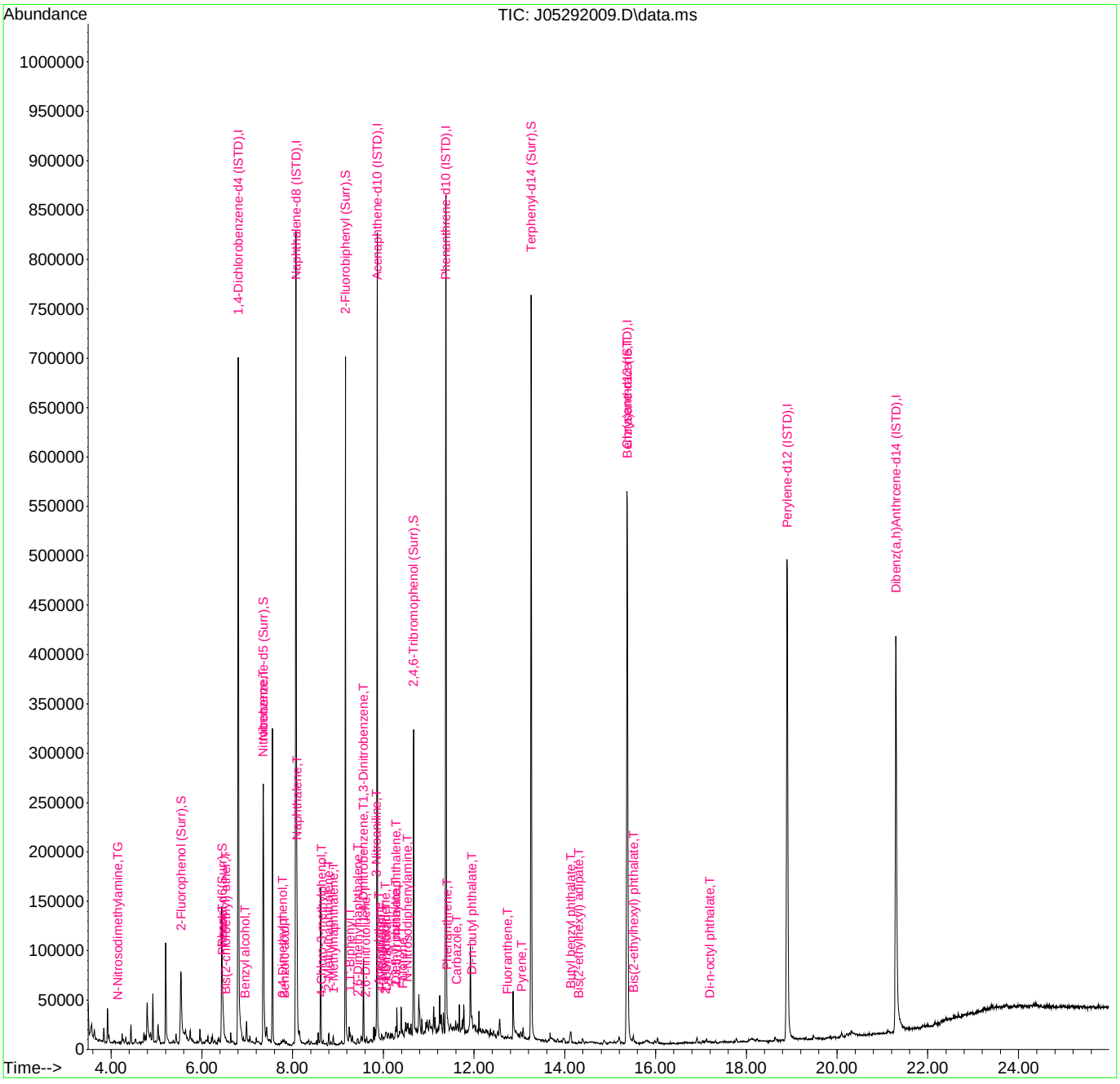
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.403	178	3936	18.29	ng/ml	95
72) Anthracene	11.462	178	130	N.D.		
73) Carbazole	11.617	167	642	9.64	ng/ml	42
74) Di-n-butyl phthalate	11.954	149	3031	14.09	ng/ml	95
75) Fluoranthene	12.729	202	629	2.72	ng/ml	91
76) Benzidine	0.000		0	N.D.		
77) Pyrene	13.045	202	1121	4.85	ng/ml	85
80) Butyl benzyl phthalate	14.131	149	4164	77.36	ng/ml	88
81) Bis(2-ethylhexyl) adipate	14.307	129	810	9.97	ng/ml	46
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.377	228	1213	5.11	ng/ml	61
84) Chrysene	15.441	228	105	N.D.		
85) Bis(2-ethylhexyl) phth...	15.511	149	3724	28.89	ng/ml	99
87) Di-n-octyl phthalate	17.190	149	55	72.34	ng/ml#	1
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	18.624	252	55	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.955	252	80	N.D.		
95) Indeno(1,2,3-cd)pyrene	21.309	276	189	N.D.		
96) Dibenz(a,h)anthracene	21.298	278	82	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292009.D
Acq On : 29 May 2020 1:10 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 16:57:39 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

DTH 5/29/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292010.D
Acq On : 29 May 2020 1:48 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 17:11:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	158276	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	577663	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	268503	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	449562	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	460841	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.907	264	457620	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.303	292	402910	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	42712	444.53	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	39780	351.67	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.348	82	79886	895.33	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	169600	792.87	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	32250	1013.45	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	221329	989.47	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.064	74	51882	911.52	ng/ml	90
3) Pyridine	4.113	79	86687m	930.30	ng/ml	
6) Phenol	6.455	94	82906	705.75	ng/ml	90
7) Aniline	6.477	93	183037	1553.24	ng/ml	95
8) Bis(2-chloroethyl) ether	6.530	93	136189	1305.54	ng/ml	96
9) 2-Chlorophenol	6.605	128	141946	1332.33	ng/ml	98
10) 1,3-Dichlorobenzene	6.749	146	135976	1051.02	ng/ml	100
11) 1,4-Dichlorobenzene	6.819	146	136331	1087.75	ng/ml	98
12) Benzyl alcohol	6.937	108	68667	1194.99	ng/ml	94
13) 1,2-Dichlorobenzene	6.974	146	138595	1148.63	ng/ml	99
14) 2-Methylphenol	7.044	107	96984	1267.77	ng/ml	95
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	108407	1333.18	ng/ml	97
16) N-Nitrosodi-n-propylamine	7.193	70	89118	1502.29	ng/ml	97
17) 3+4-Methylphenol	7.193	107	110664	1154.21	ng/ml	95
18) Hexachloroethane	7.311	201	49585	1107.02	ng/ml	95
20) Nitrobenzene	7.370	77	127403	1434.87	ng/ml	98
22) Isophorone	7.600	82	253316	1492.43	ng/ml	97
23) 2-Nitrophenol	7.691	139	83427	1532.71	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	106948	1293.68	ng/ml	94
25) Bis(2-chloroethoxy) me...	7.808	93	149955	1423.63	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292010.D
Acq On : 29 May 2020 1:48 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 17:11:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.798	105	58713	2083.81	ng/ml	95
27) 2,4-Dichlorophenol	7.931	162	121071	1452.51	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	126608	1200.03	ng/ml	98
29) Naphthalene	8.097	128	439181	1423.23	ng/ml	99
30) 4-Chloroaniline	8.145	127	156326	1603.88	ng/ml	97
31) Hexachlorobutadiene	8.226	225	71727	1107.54	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	105508	1453.25	ng/ml	98
33) 2-Methylnaphthalene	8.798	142	263183	1253.34	ng/ml	98
34) 1-Methylnaphthalene	8.900	142	255863	1298.20	ng/ml	97
36) Hexachlorocyclopentadiene	8.964	237	74068	1349.74	ng/ml	97
37) 2,4,6-Trichlorophenol	9.081	196	87024	1562.20	ng/ml	97
38) 2,4,5-Trichlorophenol	9.119	198	85312	1542.30	ng/ml	97
39) 1,1'-Biphenyl	9.263	154	310229	1374.18	ng/ml	98
41) 2-Chloronaphthalene	9.290	162	240282	1370.27	ng/ml	96
42) 2-Nitroaniline	9.392	138	81263	1668.73	ng/ml	94
43) 2,6-Dimethylnaphthalene	9.429	156	225482	1374.52	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	39435	1594.60	ng/ml	99
45) Dimethyl phthalate	9.568	163	293963	1520.35	ng/ml	98
46) 1,3-Dinitrobenzene	9.595	168	45725	1600.33	ng/ml	98
47) 2,6-Dinitrotoluene	9.627	165	69117	1584.44	ng/ml	93
48) 1,2-Dinitrobenzene	9.686	168	31863	1582.21	ng/ml	82
49) Acenaphthylene	9.718	152	380613	1461.44	ng/ml	98
50) 3-Nitroaniline	9.803	138	62027	1742.49	ng/ml	94
51) Acenaphthene	9.894	153	249536	1419.20	ng/ml	99
52) 2,4-Dinitrophenol	9.910	184	27219	1894.13	ng/ml	97
53) 4-Nitrophenol	9.975	139	15537	572.55	ng/ml	91
54) 2,4-Dinitrotoluene	10.039	165	84628	1497.57	ng/ml	96
55) Dibenzofuran	10.071	168	338428	1391.86	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	10.151	232	71469	1528.10	ng/ml	97
57) 2,3,4,6-Tetrachlorophenol	10.194	232	74384	1502.32	ng/ml	99
58) Diethyl phthalate	10.280	149	258687	1413.31	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.280	170	211891	1412.74	ng/ml	96
60) Fluorene	10.419	166	268504	1434.15	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.408	204	132504	1358.17	ng/ml	98
62) 4-Nitroaniline	10.429	138	55937	1938.38	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.461	198	42233	1577.42	ng/ml	92
65) N-Nitrosodiphenylamine	10.526	169	219118	1603.71	ng/ml	100
66) Azobenzene (1,2-DPH)	10.574	77	200435	1610.04	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292010.D
Acq On : 29 May 2020 1:48 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 17:11:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

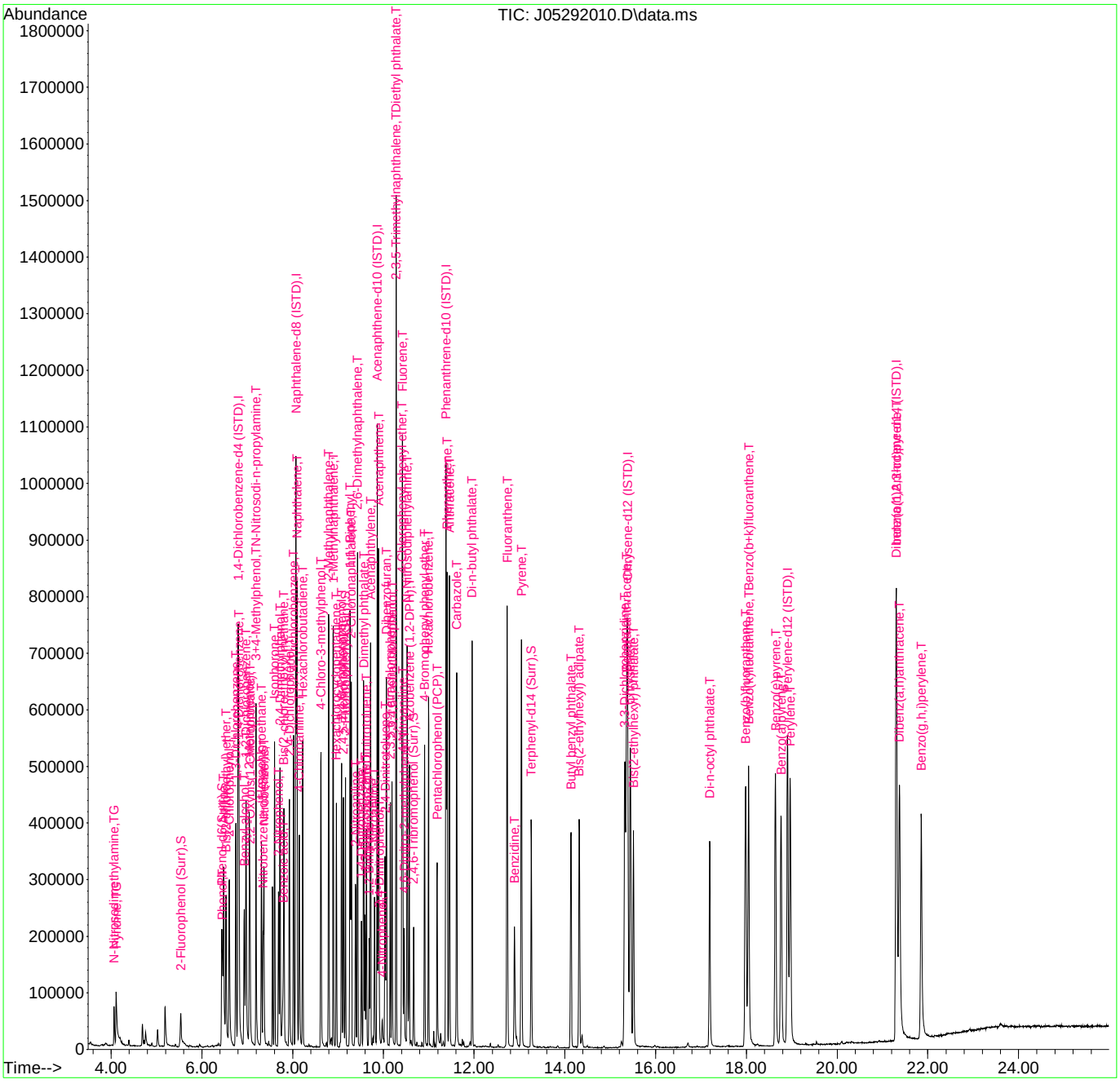
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	85806	1527.73	ng/ml	97
69) Hexachlorobenzene	10.991	284	105574	1466.99	ng/ml	96
70) Pentachlorophenol (PCP)	11.189	266	52905	1680.76	ng/ml	96
71) Phenanthrene	11.403	178	382778	1512.95	ng/ml	99
72) Anthracene	11.456	178	386002	1588.86	ng/ml	99
73) Carbazole	11.617	167	336651	1900.58	ng/ml	99
74) Di-n-butyl phthalate	11.954	149	412109	1629.31	ng/ml	99
75) Fluoranthene	12.729	202	439111	1617.20	ng/ml	96
76) Benzidine	12.890	184	138636	1516.45	ng/ml	97
77) Pyrene	13.045	202	442392	1627.93	ng/ml	99
80) Butyl benzyl phthalate	14.136	149	169991	1683.21	ng/ml	94
81) Bis(2-ethylhexyl) adipate	14.312	129	143354	1603.75	ng/ml	98
82) 3,3-Dichlorobenzidine	15.318	252	265377	8815.18	ng/ml	96
83) Benz(a)anthracene	15.355	228	414729	1587.14	ng/ml	98
84) Chrysene	15.441	228	395810	1608.14	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.511	149	234420	1652.44	ng/ml	99
87) Di-n-octyl phthalate	17.190	149	371579	1656.62	ng/ml	99
88) Benzo(b)fluoranthene	17.987	252	410686	1629.96	ng/ml	97
89) Benzo(k)fluoranthene	18.051	252	421429	1674.68	ng/ml	97
90) Benzo(b+k)fluoranthene	18.051	252	858966	3295.13	ng/ml	97
91) Benzo(e)pyrene	18.645	252	398311	1741.41	ng/ml	99
92) Benzo(a)pyrene	18.768	252	354511	1688.30	ng/ml	97
93) Perylene	18.971	252	408124	1851.29	ng/ml	100
95) Indeno(1,2,3-cd)pyrene	21.308	276	362535	1547.68	ng/ml	92
96) Dibenz(a,h)anthracene	21.373	278	354826	1630.08	ng/ml	93
97) Benzo(g,h,i)perylene	21.854	276	367786	1658.76	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292010.D
Acq On : 29 May 2020 1:48 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 17:11:10 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

DTH 5/29/20

Q19

Data Path : T:\data\2020-05\0E29010\
Data File : J05292011.D
Acq On : 29 May 2020 2:26 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 17:15:27 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	159683	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	589912	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.863	162	281010	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.382	188	484027	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	474163	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.907	264	457824	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.303	292	404992	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	46048	475.02	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	41487	363.53	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	84222	935.61	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	192327	859.10	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	34911	1018.80	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	229142	995.62	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.065	74	47563	828.27	ng/ml	89
3) Pyridine	4.113	79	83120	884.16	ng/ml	95
6) Phenol	6.455	94	88264	744.74	ng/ml	89
7) Aniline	6.477	93	190807	1604.91	ng/ml	94
8) Bis(2-chloroethyl) ether	6.530	93	146043	1387.66	ng/ml	98
9) 2-Chlorophenol	6.600	128	149939	1394.95	ng/ml	99
10) 1,3-Dichlorobenzene	6.750	146	141626	1085.05	ng/ml	99
11) 1,4-Dichlorobenzene	6.819	146	140701	1112.73	ng/ml	99
12) Benzyl alcohol	6.937	108	75687	1301.78	ng/ml	93
13) 1,2-Dichlorobenzene	6.974	146	143545	1179.17	ng/ml	98
14) 2-Methylphenol	7.044	107	100672	1304.38	ng/ml	98
15) 2,2’-Oxybis(1-Chloropr...	7.060	45	113555	1384.19	ng/ml	100
16) N-Nitrosodi-n-propylamine	7.194	70	95910	1602.54	ng/ml	97
17) 3+4-Methylphenol	7.194	107	119968	1240.23	ng/ml	96
18) Hexachloroethane	7.311	201	50632	1120.44	ng/ml	95
20) Nitrobenzene	7.370	77	134533	1501.82	ng/ml	100
22) Isophorone	7.600	82	273591	1578.41	ng/ml	96
23) 2-Nitrophenol	7.686	139	89149	1603.83	ng/ml	89
24) 2,4-Dimethylphenol	7.723	122	113560	1345.14	ng/ml	94
25) Bis(2-chloroethoxy) me...	7.809	93	160748	1494.41	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292011.D
Acq On : 29 May 2020 2:26 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 17:15:27 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.798	105	64338	2177.83	ng/ml	93
27) 2,4-Dichlorophenol	7.932	162	129904	1526.12	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	136235	1264.46	ng/ml	98
29) Naphthalene	8.097	128	450855	1430.72	ng/ml	99
30) 4-Chloroaniline	8.146	127	166984	1677.66	ng/ml	97
31) Hexachlorobutadiene	8.226	225	77472	1171.41	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	111380	1502.28	ng/ml	98
33) 2-Methylnaphthalene	8.798	142	288926	1347.37	ng/ml	98
34) 1-Methylnaphthalene	8.900	142	272816	1355.47	ng/ml	99
36) Hexachlorocyclopentadiene	8.964	237	79733	1388.31	ng/ml	97
37) 2,4,6-Trichlorophenol	9.082	196	94462	1619.27	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	93000	1605.93	ng/ml	96
39) 1,1'-Biphenyl	9.269	154	330415	1398.46	ng/ml	98
41) 2-Chloronaphthalene	9.290	162	258776	1410.06	ng/ml	98
42) 2-Nitroaniline	9.392	138	87136	1709.69	ng/ml	95
43) 2,6-Dimethylnaphthalene	9.429	156	247112	1439.33	ng/ml	100
44) 1,4-Dinitrobenzene	9.515	168	43708	1682.49	ng/ml	93
45) Dimethyl phthalate	9.568	163	312791	1545.73	ng/ml	99
46) 1,3-Dinitrobenzene	9.595	168	49120	1642.64	ng/ml	96
47) 2,6-Dinitrotoluene	9.627	165	75132	1645.67	ng/ml	92
48) 1,2-Dinitrobenzene	9.686	168	33471	1588.08	ng/ml	83
49) Acenaphthylene	9.718	152	404552	1484.22	ng/ml	99
50) 3-Nitroaniline	9.804	138	67872	1848.66	ng/ml	95
51) Acenaphthene	9.895	153	267108	1451.52	ng/ml	98
52) 2,4-Dinitrophenol	9.911	184	29005	1920.70	ng/ml	97
53) 4-Nitrophenol	9.975	139	16445	578.45	ng/ml	89
54) 2,4-Dinitrotoluene	10.039	165	93919	1586.17	ng/ml	96
55) Dibenzofuran	10.071	168	368164	1446.77	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.151	232	79352	1616.84	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.194	232	80982	1561.60	ng/ml	96
58) Diethyl phthalate	10.280	149	284487	1485.09	ng/ml	100
59) 2,3,5-Trimethylnaphtha...	10.280	170	233177	1485.47	ng/ml	97
60) Fluorene	10.419	166	295419	1507.68	ng/ml	98
61) 4-Chlorophenyl phenyl ...	10.408	204	146653	1436.30	ng/ml	97
62) 4-Nitroaniline	10.429	138	60411	2000.24	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.462	198	47214	1671.65	ng/ml	91
65) N-Nitrosodiphenylamine	10.526	169	249654	1697.10	ng/ml	100
66) Azobenzene (1,2-DPH)	10.574	77	224928	1678.14	ng/ml	95

Data Path : T:\data\2020-05\0E29010\
Data File : J05292011.D
Acq On : 29 May 2020 2:26 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 17:15:27 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

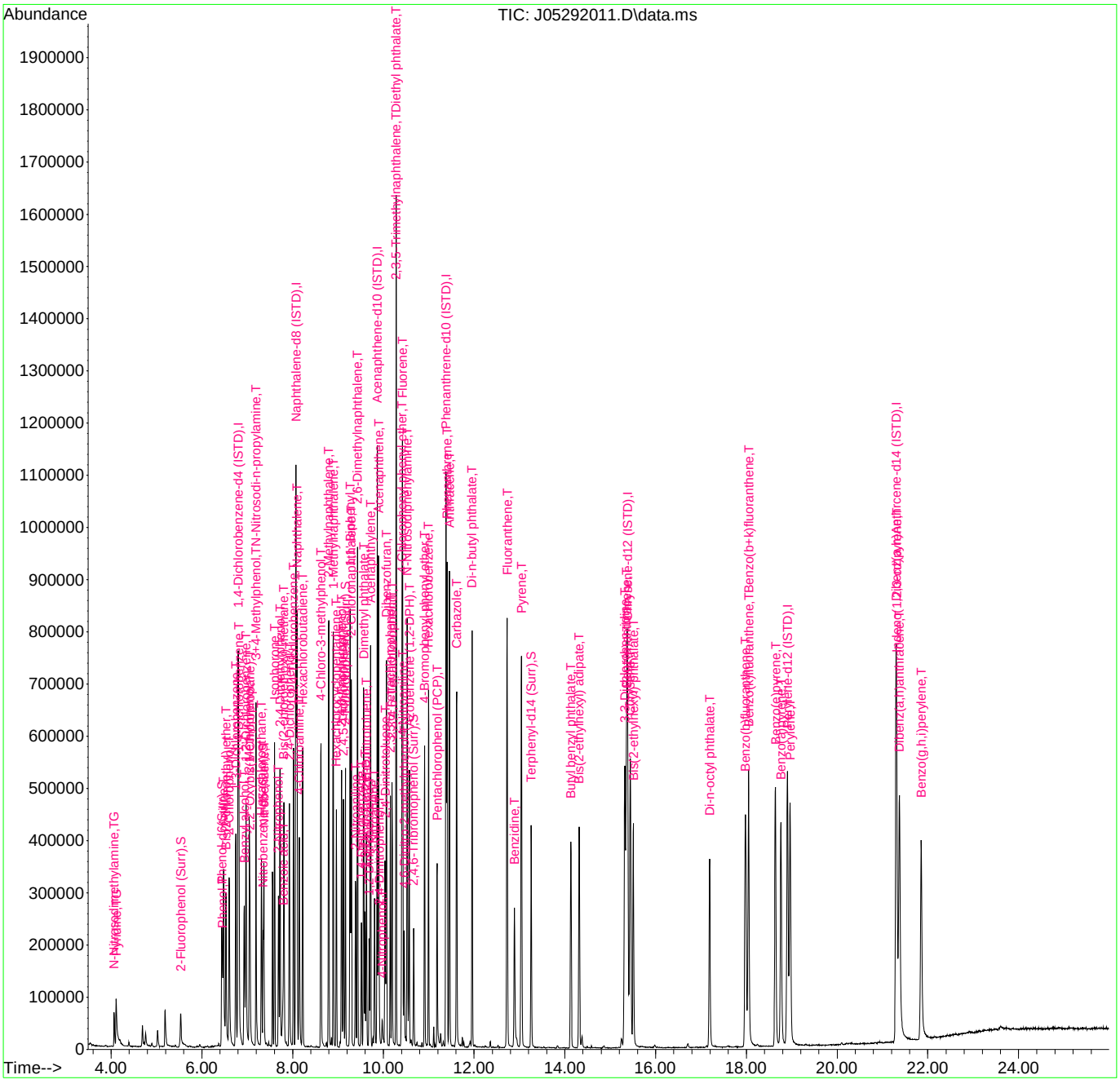
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	94423	1561.45	ng/ml	97
69) Hexachlorobenzene	10.991	284	115781	1494.26	ng/ml	98
70) Pentachlorophenol (PCP)	11.189	266	57249	1688.50	ng/ml	96
71) Phenanthrene	11.403	178	420093	1542.20	ng/ml	99
72) Anthracene	11.456	178	415252	1587.55	ng/ml	99
73) Carbazole	11.617	167	369310	1954.02	ng/ml	99
74) Di-n-butyl phthalate	11.954	149	446401	1639.22	ng/ml	100
75) Fluoranthene	12.729	202	467924	1600.60	ng/ml	97
76) Benzidine	12.890	184	165656	1669.24	ng/ml	97
77) Pyrene	13.045	202	465360	1590.52	ng/ml	100
80) Butyl benzyl phthalate	14.131	149	175148	1685.39	ng/ml	94
81) Bis(2-ethylhexyl) adipate	14.313	129	146005	1587.51	ng/ml	97
82) 3,3-Dichlorobenzidine	15.323	252	269510	8690.02	ng/ml	98
83) Benz(a)anthracene	15.356	228	424116	1577.46	ng/ml	100
84) Chrysene	15.441	228	402158	1588.02	ng/ml	100
85) Bis(2-ethylhexyl) phth...	15.511	149	243465	1667.98	ng/ml	98
87) Di-n-octyl phthalate	17.190	149	378842	1685.29	ng/ml	99
88) Benzo(b)fluoranthene	17.982	252	415517	1647.77	ng/ml	97
89) Benzo(k)fluoranthene	18.051	252	427195	1696.90	ng/ml	97
90) Benzo(b+k)fluoranthene	18.051	252	870068	3335.77	ng/ml	97
91) Benzo(e)pyrene	18.645	252	405923	1773.90	ng/ml	98
92) Benzo(a)pyrene	18.763	252	360279	1714.25	ng/ml	99
93) Perylene	18.966	252	407777	1848.89	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.314	276	369442	1569.05	ng/ml	92
96) Dibenz(a,h)anthracene	21.373	278	370763	1694.54	ng/ml	93
97) Benzo(g,h,i)perylene	21.854	276	376303	1688.45	ng/ml	95

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292011.D
Acq On : 29 May 2020 2:26 pm
Operator : JK/ AMS/ DTH
Sample : 0051039-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 17:15:27 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 6/1/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292014.D
Acq On : 29 May 2020 4:20 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 10:33:22 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	160645	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	608499	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	276943	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	482812	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.377	240	482106	2000.00	ng/ml	-0.03
86) Perylene-d12 (ISTD)	18.901	264	454863	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.303	292	401595	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.546	112	62890	644.88	ng/ml	0.02
5) Phenol-d6(Surr)	6.450	99	55245	481.19	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.354	82	164180	1812.93	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	354484	1606.69	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	64927	1863.06	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	466541	1993.72	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.091	74	151	2.61	ng/ml#	1
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.466	94	892	7.48	ng/ml#	1
7) Aniline	6.461	93	77	N.D.		
8) Bis(2-chloroethyl) ether	6.519	93	514	4.85	ng/ml#	49
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	6.824	146	95	N.D.		
11) 1,4-Dichlorobenzene	6.824	146	95	N.D.		
12) Benzyl alcohol	6.915	108	90	10.19	ng/ml#	1
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	7.033	107	54	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	168	N.D.		
16) N-Nitrosodi-n-propylamine	7.177	70	149	N.D.		
17) 3+4-Methylphenol	7.209	107	73	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	7.354	77	607	6.74	ng/ml#	42
22) Isophorone	7.605	82	206	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	7.766	122	759	8.72	ng/ml#	12
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292014.D
Acq On : 29 May 2020 4:20 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 10:33:22 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.830	105	361	738.01	ng/ml#	49
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	8.097	128	59155	181.99	ng/ml	100
30) 4-Chloroaniline	8.140	127	195	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	8.632	107	206	2.69	ng/ml#	1
33) 2-Methylnaphthalene	8.798	142	4452	20.13	ng/ml	91
34) 1-Methylnaphthalene	8.894	142	2752	13.26	ng/ml	96
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	9.081	196	54	12.05	ng/ml#	13
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	9.269	154	1768	7.59	ng/ml	82
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	9.434	156	503	2.97	ng/ml#	47
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.563	163	224	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	9.611	165	220	4.89	ng/ml#	40
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	9.718	152	173	N.D.		
50) 3-Nitroaniline	0.000		0	N.D.		
51) Acenaphthene	9.894	153	3429	18.91	ng/ml	94
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.932	139	73	44.68	ng/ml#	36
54) 2,4-Dinitrotoluene	10.044	165	102	28.05	ng/ml#	5
55) Dibenzofuran	10.066	168	355	N.D.		
56) 2,3,5,6-Tetrachlorophenol	10.199	232	115	37.63	ng/ml#	37
57) 2,3,4,6-Tetrachlorophenol	10.199	232	115	31.40	ng/ml#	28
58) Diethyl phthalate	10.280	149	839	4.44	ng/ml	73
59) 2,3,5-Trimethylnaphtha...	10.280	170	101	N.D.		
60) Fluorene	10.419	166	763	3.95	ng/ml#	72
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	10.579	77	308	N.D.		

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292014.D
Acq On : 29 May 2020 4:20 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 10:33:22 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

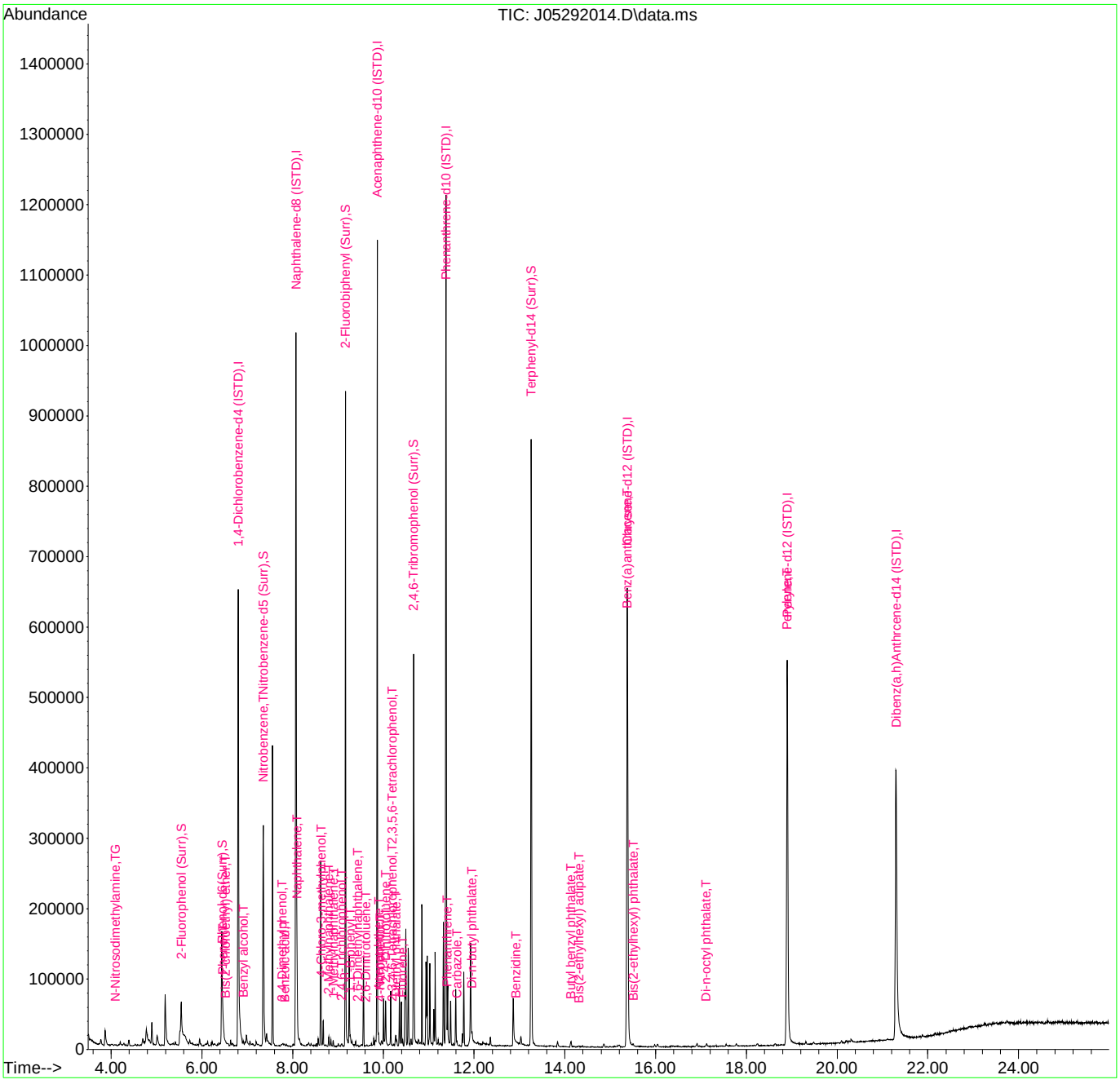
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.937	248	56	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.403	178	1690	6.22	ng/ml	87
72) Anthracene	11.462	178	151	N.D.		
73) Carbazole	11.622	167	411	8.06	ng/ml	74
74) Di-n-butyl phthalate	11.954	149	3179	11.70	ng/ml	95
75) Fluoranthene	12.735	202	373	N.D.		
76) Benzidine	12.922	184	70	135.48	ng/ml#	1
77) Pyrene	13.045	202	469	N.D.		
80) Butyl benzyl phthalate	14.131	149	2951	59.30	ng/ml	89
81) Bis(2-ethylhexyl) adipate	14.312	129	771	8.24	ng/ml	85
82) 3,3-Dichlorobenzidine	0.000		0	N.D.		
83) Benz(a)anthracene	15.371	228	1150	4.21	ng/ml	67
84) Chrysene	15.430	228	125	N.D.		
85) Bis(2-ethylhexyl) phth...	15.505	149	1462	9.85	ng/ml	82
87) Di-n-octyl phthalate	17.115	149	90	72.47	ng/ml#	1
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.896	252	1717	7.84	ng/ml	68
95) Indeno(1,2,3-cd)pyrene	21.308	276	195	N.D.		
96) Dibenz(a,h)anthracene	0.000		0	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292014.D
Acq On : 29 May 2020 4:20 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BLK1
Misc : 1x,8270D TCLP SVOC REG LIST
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 10:33:22 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 6/1/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292015.D
Acq On : 29 May 2020 4:57 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 10:33:45 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	158259	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	596619	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.862	162	271519	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.381	188	469959	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	476295	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.907	264	462348	2000.00	ng/ml	-0.02
94) Dibenz(a,h)Anthrcene-d...	21.309	292	410993	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	46529	484.30	ng/ml	0.00
5) Phenol-d6(Surr)	6.439	99	40854	361.21	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	87078	976.04	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	188415	871.05	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	33866	1017.91	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	230785	998.27	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.054	74	51200	899.63	ng/ml	87
3) Pyridine	4.102	79	85804	920.92	ng/ml	95
6) Phenol	6.455	94	85788	730.36	ng/ml	88
7) Aniline	6.477	93	187153	1588.34	ng/ml	97
8) Bis(2-chloroethyl) ether	6.530	93	142269	1363.97	ng/ml	95
9) 2-Chlorophenol	6.600	128	148438	1393.42	ng/ml	99
10) 1,3-Dichlorobenzene	6.750	146	145876	1127.67	ng/ml	99
11) 1,4-Dichlorobenzene	6.819	146	146034	1165.30	ng/ml	99
12) Benzyl alcohol	6.937	108	72031	1251.73	ng/ml	99
13) 1,2-Dichlorobenzene	6.974	146	147933	1226.15	ng/ml	99
14) 2-Methylphenol	7.044	107	101219	1323.27	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	111156	1367.13	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.188	70	100702	1697.75	ng/ml	95
17) 3+4-Methylphenol	7.193	107	123005	1283.07	ng/ml	96
18) Hexachloroethane	7.311	201	53591	1196.59	ng/ml	98
20) Nitrobenzene	7.370	77	138566	1560.76	ng/ml	99
22) Isophorone	7.600	82	286217	1632.69	ng/ml	97
23) 2-Nitrophenol	7.686	139	87872	1563.08	ng/ml	91
24) 2,4-Dimethylphenol	7.723	122	112054	1312.38	ng/ml	94
25) Bis(2-chloroethoxy) me...	7.809	93	157179	1444.80	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292015.D
Acq On : 29 May 2020 4:57 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 10:33:45 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.798	105	60240	2075.30	ng/ml	97
27) 2,4-Dichlorophenol	7.932	162	128773	1495.83	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	139766	1282.65	ng/ml	98
29) Naphthalene	8.097	128	451022	1415.16	ng/ml	100
30) 4-Chloroaniline	8.146	127	171797	1706.61	ng/ml	98
31) Hexachlorobutadiene	8.226	225	78148	1168.34	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	109581	1461.40	ng/ml	97
33) 2-Methylnaphthalene	8.798	142	283113	1305.42	ng/ml	97
34) 1-Methylnaphthalene	8.900	142	275669	1354.25	ng/ml	98
36) Hexachlorocyclopentadiene	8.964	237	72536	1307.14	ng/ml	99
37) 2,4,6-Trichlorophenol	9.082	196	93286	1654.41	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	90731	1621.39	ng/ml	98
39) 1,1'-Biphenyl	9.269	154	329097	1441.57	ng/ml	98
41) 2-Chloronaphthalene	9.290	162	253134	1427.53	ng/ml	97
42) 2-Nitroaniline	9.386	138	85448	1735.18	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.429	156	243363	1467.04	ng/ml	99
44) 1,4-Dinitrobenzene	9.515	168	42478	1691.66	ng/ml	94
45) Dimethyl phthalate	9.568	163	313188	1601.79	ng/ml	99
46) 1,3-Dinitrobenzene	9.595	168	48553	1680.43	ng/ml	93
47) 2,6-Dinitrotoluene	9.627	165	70727	1603.34	ng/ml	90
48) 1,2-Dinitrobenzene	9.686	168	32877	1614.43	ng/ml	88
49) Acenaphthylene	9.718	152	398506	1513.15	ng/ml	99
50) 3-Nitroaniline	9.804	138	64581	1811.02	ng/ml	98
51) Acenaphthene	9.895	153	263169	1480.11	ng/ml	99
52) 2,4-Dinitrophenol	9.905	184	27557	1895.84	ng/ml	86
53) 4-Nitrophenol	9.975	139	15912	579.19	ng/ml	88
54) 2,4-Dinitrotoluene	10.039	165	90191	1576.64	ng/ml	95
55) Dibenzofuran	10.071	168	354565	1442.03	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.151	232	76111	1605.54	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.194	232	79576	1587.62	ng/ml	98
58) Diethyl phthalate	10.280	149	274654	1483.87	ng/ml	100
59) 2,3,5-Trimethylnaphtha...	10.280	170	222560	1467.40	ng/ml	97
60) Fluorene	10.419	166	285820	1509.68	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.408	204	141943	1438.76	ng/ml	98
62) 4-Nitroaniline	10.429	138	59075	2024.38	ng/ml	92
63) 4,6-Dinitro-2-methylph...	10.461	198	44233	1626.85	ng/ml	93
65) N-Nitrosodiphenylamine	10.526	169	237812	1664.99	ng/ml	99
66) Azobenzene (1,2-DPH)	10.574	77	214390	1647.40	ng/ml	93

Data Path : T:\data\2020-05\0E29010\
Data File : J05292015.D
Acq On : 29 May 2020 4:57 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 10:33:45 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

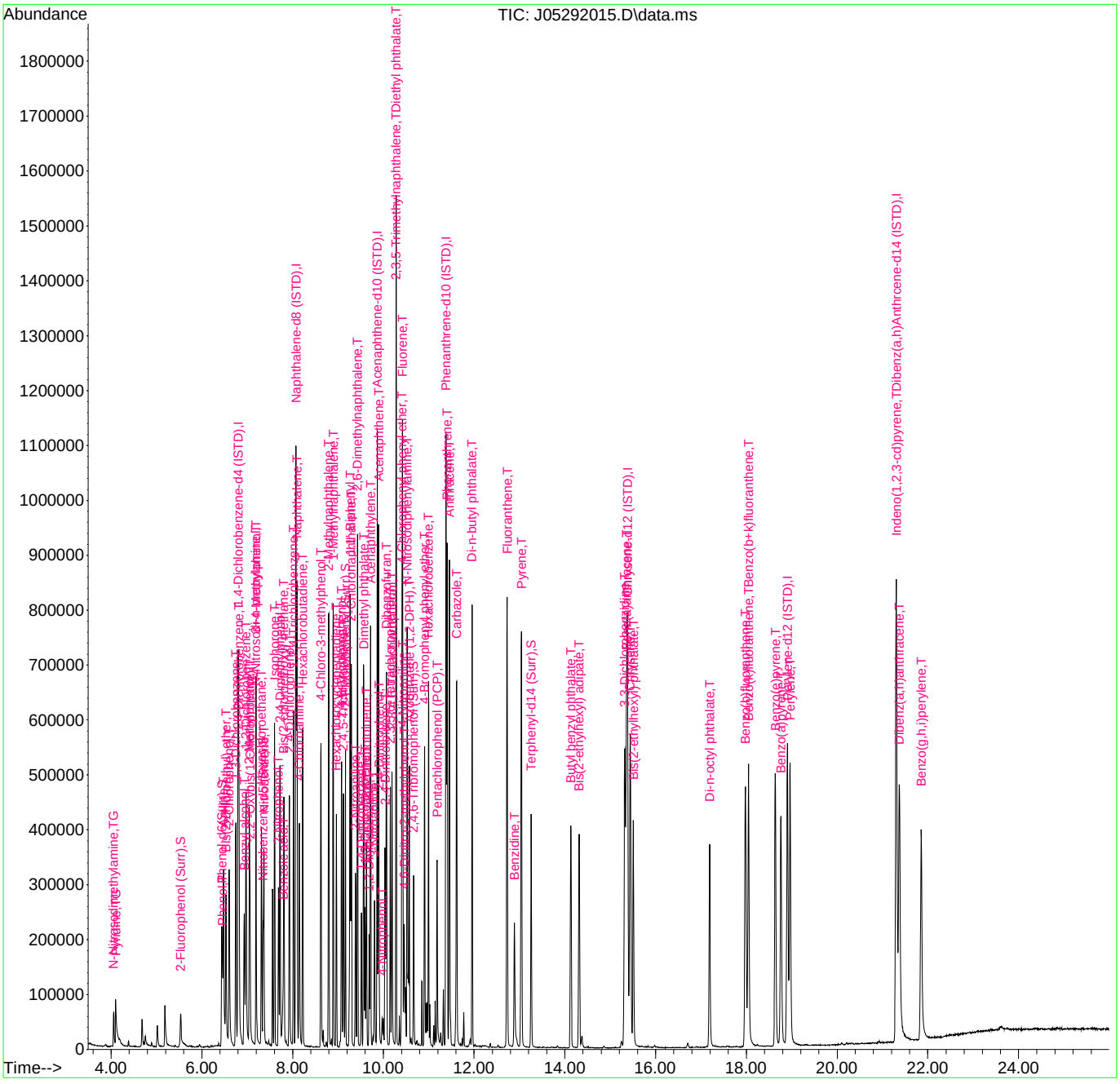
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	91352	1555.88	ng/ml	99
69) Hexachlorobenzene	10.991	284	113022	1502.32	ng/ml	97
70) Pentachlorophenol (PCP)	11.189	266	56174	1704.79	ng/ml	100
71) Phenanthrene	11.403	178	411470	1555.77	ng/ml	99
72) Anthracene	11.456	178	416150	1638.61	ng/ml	99
73) Carbazole	11.617	167	365485	2011.14	ng/ml	100
74) Di-n-butyl phthalate	11.954	149	450829	1705.04	ng/ml	99
75) Fluoranthene	12.729	202	470059	1656.04	ng/ml	96
76) Benzidine	12.890	184	144809	1515.33	ng/ml	97
77) Pyrene	13.045	202	474418	1670.01	ng/ml	100
80) Butyl benzyl phthalate	14.131	149	178184	1705.45	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.313	129	145687	1576.97	ng/ml	99
82) 3,3-Dichlorobenzidine	15.318	252	273396	8784.18	ng/ml	97
83) Benz(a)anthracene	15.355	228	439875	1628.75	ng/ml	98
84) Chrysene	15.441	228	420297	1652.22	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.511	149	247356	1687.05	ng/ml	99
87) Di-n-octyl phthalate	17.190	149	380627	1677.46	ng/ml	99
88) Benzo(b)fluoranthene	17.982	252	427311	1676.91	ng/ml	97
89) Benzo(k)fluoranthene	18.046	252	430212	1692.15	ng/ml	96
90) Benzo(b+k)fluoranthene	18.046	252	886471	3365.06	ng/ml	96
91) Benzo(e)pyrene	18.640	252	412994	1787.14	ng/ml	99
92) Benzo(a)pyrene	18.763	252	365449	1721.63	ng/ml	99
93) Perylene	18.966	252	417575	1874.79	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.309	276	375748	1572.54	ng/ml	96
96) Dibenz(a,h)anthracene	21.373	278	380221	1712.39	ng/ml	94
97) Benzo(g,h,i)perylene	21.854	276	386404	1708.45	ng/ml	95

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292015.D
Acq On : 29 May 2020 4:57 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BS1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 10:33:45 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 6/1/20

Data Path : T:\data\2020-05\0E29010\
Data File : J05292016.D
Acq On : 29 May 2020 5:35 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 10:34:04 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	162114	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.076	136	586090	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.863	162	269558	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.382	188	476145	2000.00	ng/ml	-0.01
78) Chrysene-d12 (ISTD)	15.382	240	461541	2000.00	ng/ml	-0.02
86) Perylene-d12 (ISTD)	18.902	264	455347	2000.00	ng/ml	-0.03
94) Dibenz(a,h)Anthrcene-d...	21.303	292	407484	2000.00	ng/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	41540	422.09	ng/ml	0.01
5) Phenol-d6(Surr)	6.439	99	35068	302.68	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.349	82	85205	932.33	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.162	172	188455	877.57	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.665	330	33784	1002.68	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.259	244	225164	1005.09	ng/ml	-0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.059	74	46793	802.65	ng/ml	88
3) Pyridine	4.107	79	81830	857.38	ng/ml	93
6) Phenol	6.455	94	73867	613.92	ng/ml	87
7) Aniline	6.477	93	180399	1494.61	ng/ml	96
8) Bis(2-chloroethyl) ether	6.530	93	146915	1375.02	ng/ml	96
9) 2-Chlorophenol	6.605	128	145918	1337.19	ng/ml	99
10) 1,3-Dichlorobenzene	6.750	146	140285	1058.66	ng/ml	99
11) 1,4-Dichlorobenzene	6.819	146	140608	1095.32	ng/ml	100
12) Benzyl alcohol	6.937	108	67767	1152.77	ng/ml	96
13) 1,2-Dichlorobenzene	6.974	146	142309	1151.49	ng/ml	98
14) 2-Methylphenol	7.044	107	91407	1166.58	ng/ml	99
15) 2,2’-Oxybis(1-Chloropr...	7.060	45	112180	1346.92	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.194	70	95073	1564.74	ng/ml	98
17) 3+4-Methylphenol	7.194	107	107614	1095.83	ng/ml	94
18) Hexachloroethane	7.311	201	48923	1066.39	ng/ml	98
20) Nitrobenzene	7.370	77	133298	1465.72	ng/ml	100
22) Isophorone	7.600	82	266849	1549.55	ng/ml	99
23) 2-Nitrophenol	7.686	139	87064	1576.53	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	105004	1251.90	ng/ml	96
25) Bis(2-chloroethoxy) me...	7.809	93	155213	1452.36	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292016.D
Acq On : 29 May 2020 5:35 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 10:34:04 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Benzoic acid	7.793	105	47593	1821.88	ng/ml	96
27) 2,4-Dichlorophenol	7.932	162	125547	1484.56	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.017	180	129873	1213.27	ng/ml	97
29) Naphthalene	8.097	128	458289	1463.79	ng/ml	99
30) 4-Chloroaniline	8.146	127	164160	1660.04	ng/ml	96
31) Hexachlorobutadiene	8.226	225	74232	1129.74	ng/ml	98
32) 4-Chloro-3-methylphenol	8.627	107	100964	1370.67	ng/ml	99
33) 2-Methylnaphthalene	8.798	142	270851	1271.31	ng/ml	98
34) 1-Methylnaphthalene	8.900	142	260802	1304.23	ng/ml	98
36) Hexachlorocyclopentadiene	8.964	237	67045	1216.98	ng/ml	100
37) 2,4,6-Trichlorophenol	9.082	196	89578	1601.09	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	87917	1582.83	ng/ml	95
39) 1,1'-Biphenyl	9.263	154	321206	1417.24	ng/ml	100
41) 2-Chloronaphthalene	9.290	162	248919	1413.97	ng/ml	96
42) 2-Nitroaniline	9.386	138	83689	1711.82	ng/ml	89
43) 2,6-Dimethylnaphthalene	9.429	156	232392	1411.09	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	41251	1657.12	ng/ml	93
45) Dimethyl phthalate	9.568	163	301552	1553.50	ng/ml	98
46) 1,3-Dinitrobenzene	9.595	168	47437	1653.75	ng/ml	97
47) 2,6-Dinitrotoluene	9.627	165	71902	1641.83	ng/ml	92
48) 1,2-Dinitrobenzene	9.686	168	31760	1570.92	ng/ml	82
49) Acenaphthylene	9.718	152	389082	1488.11	ng/ml	99
50) 3-Nitroaniline	9.804	138	64792	1836.68	ng/ml	99
51) Acenaphthene	9.895	153	256513	1453.17	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	26440	1846.45	ng/ml	96
53) 4-Nitrophenol	9.975	139	12844	480.32	ng/ml	84
54) 2,4-Dinitrotoluene	10.039	165	87785	1546.35	ng/ml	95
55) Dibenzofuran	10.071	168	354688	1453.02	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.151	232	74287	1579.67	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	10.194	232	77522	1558.44	ng/ml	99
58) Diethyl phthalate	10.280	149	268676	1462.14	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.280	170	217719	1445.92	ng/ml	98
60) Fluorene	10.419	166	282389	1502.40	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.408	204	141260	1442.26	ng/ml	97
62) 4-Nitroaniline	10.429	138	58002	2002.07	ng/ml	91
63) 4,6-Dinitro-2-methylph...	10.456	198	43925	1627.22	ng/ml	96
65) N-Nitrosodiphenylamine	10.526	169	237371	1640.31	ng/ml	98
66) Azobenzene (1,2-DPH)	10.569	77	205804	1560.87	ng/ml	98

Data Path : T:\data\2020-05\0E29010\
Data File : J05292016.D
Acq On : 29 May 2020 5:35 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 10:34:04 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

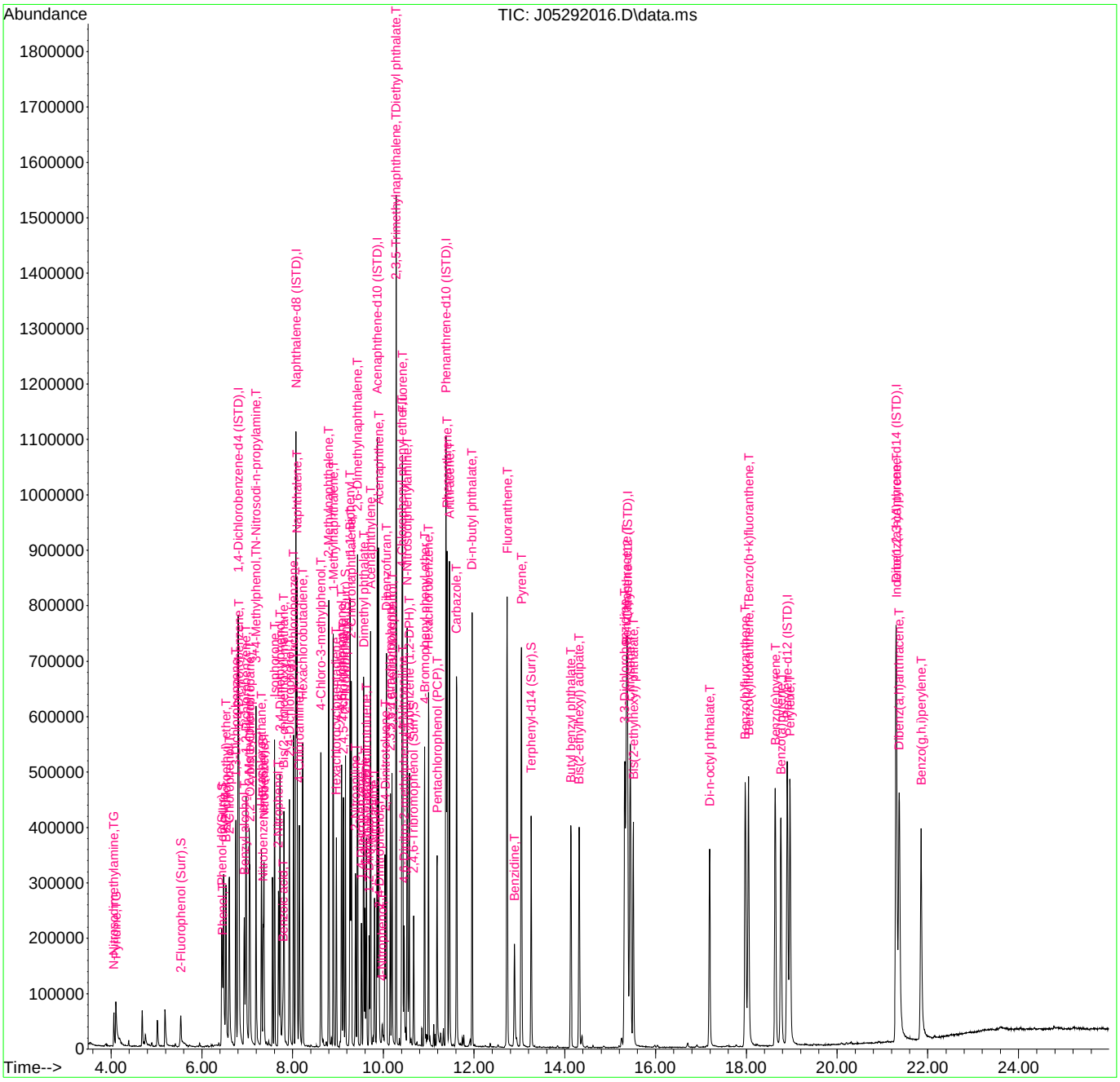
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 4-Bromophenyl phenyl e...	10.911	248	92151	1549.10	ng/ml	98
69) Hexachlorobenzene	10.991	284	111762	1466.27	ng/ml	95
70) Pentachlorophenol (PCP)	11.189	266	55725	1672.32	ng/ml	100
71) Phenanthrene	11.403	178	410436	1531.69	ng/ml	100
72) Anthracene	11.456	178	400410	1556.15	ng/ml	99
73) Carbazole	11.612	167	360055	1928.14	ng/ml	99
74) Di-n-butyl phthalate	11.954	149	440923	1645.91	ng/ml	99
75) Fluoranthene	12.729	202	462320	1607.61	ng/ml	96
76) Benzidine	12.890	184	119953	1262.22	ng/ml	98
77) Pyrene	13.045	202	462898	1608.29	ng/ml	99
80) Butyl benzyl phthalate	14.131	149	171765	1697.17	ng/ml	94
81) Bis(2-ethylhexyl) adipate	14.313	129	137332	1534.05	ng/ml	98
82) 3,3-Dichlorobenzidine	15.318	252	261452	8657.93	ng/ml	96
83) Benz(a)anthracene	15.356	228	418038	1597.38	ng/ml	98
84) Chrysene	15.441	228	404247	1639.93	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.511	149	235757	1659.35	ng/ml	97
87) Di-n-octyl phthalate	17.190	149	361619	1623.60	ng/ml	99
88) Benzo(b)fluoranthene	17.976	252	417206	1662.93	ng/ml	97
89) Benzo(k)fluoranthene	18.051	252	420841	1680.71	ng/ml	97
90) Benzo(b+k)fluoranthene	18.051	252	867455	3343.75	ng/ml	97
91) Benzo(e)pyrene	18.640	252	404406	1776.88	ng/ml	99
92) Benzo(a)pyrene	18.763	252	350966	1680.00	ng/ml	98
93) Perylene	18.961	252	403357	1838.80	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.309	276	361477	1525.84	ng/ml	91
96) Dibenz(a,h)anthracene	21.367	278	356751	1620.53	ng/ml	95
97) Benzo(g,h,i)perylene	21.854	276	363605	1621.49	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : T:\data\2020-05\0E29010\
Data File : J05292016.D
Acq On : 29 May 2020 5:35 pm
Operator : JK/ AMS/ DTH
Sample : 0051038-BSD1@2
Misc : 2x,8270D TCLP SVOC REG LIST
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 10:34:04 2020
Quant Method : T:\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



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

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data

Sequence 0E01048 (Cal ID A0E0506) SV-GCMS10

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0E01048 Instrument: SV-GCMS10

Date: **05/01/20 13:59** Calibration: **A0E0506**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E01048-TUN1	Water	QC	QC			A20C061	A20D411
2	0E01048-ICB1	Water	QC	QC			A20C061	
3	0E01048-CAL1	Water	QC	QC			A20C061	A20D243
4	0E01048-CAL2	Water	QC	QC			A20C061	A20D244
5	0E01048-CAL3	Water	QC	QC			A20C061	A20D245
6	0E01048-CAL4	Water	QC	QC			A20C061	A20D246
7	0E01048-CAL5	Water	QC	QC			A20C061	A20D247
8	0E01048-CAL6	Water	QC	QC			A20C061	A20D248
9	0E01048-CAL7	Water	QC	QC			A20C061	A20D249
10	0E01048-CAL8	Water	QC	QC			A20C061	A20D250
11	0E01048-CAL9	Water	QC	QC			A20C061	A20D251
12	0E01048-CALA	Water	QC	QC			A20C061	A20D252
13	0E01048-IBL1	Water	QC	QC			A20C061	
14	0E01048-ICV1	Water	QC	QC			A20C061	A20C090
15	0E01048-IBL2	Water	QC	QC			A20C061	

Data Entered By: JK 5/5/20

Comments:

Data Reviewed By: MKZ 5/6/2020

5/5/2020 4:15:38PM

Calibration Status Report SV-GCMS10

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon May 04 11:17:09 2020
Response Via : Initial Calibration

JK 5/5/20

A0E0506

#	ID	Conc	ISTD Conc	Path\File
1	20	20	2000	C:\msdchem\1\data\2020-05\0E01048\J05012011.D
2	50	50	2000	C:\msdchem\1\data\2020-05\0E01048\J05012012.D
3	100	100	2000	C:\msdchem\1\data\2020-05\0E01048\J05012013.D
4	200	200	2000	C:\msdchem\1\data\2020-05\0E01048\J05012014.D
5	500	500	2000	C:\msdchem\1\data\2020-05\0E01048\J05012015.D
6	1000	1000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012016.D
7	2000	2000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012017.D
8	4000	4000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012018.D
9	6000	6000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012019.D
10	8000	8000	2000	C:\msdchem\1\data\2020-05\0E01048\J05012020.D

#	ID	Update Time	Quant Time	Acquisition Time
1	20	May 04 11:16 2020	May 04 11:01 2020	1 May 2020 3:16 pm
2	50	May 04 11:16 2020	May 04 11:03 2020	1 May 2020 3:53 pm
3	100	May 04 11:16 2020	May 04 11:04 2020	1 May 2020 6:15 pm
4	200	May 04 11:16 2020	May 04 11:05 2020	1 May 2020 6:50 pm
5	500	May 04 11:16 2020	May 04 11:06 2020	1 May 2020 7:26 pm
6	1000	May 04 11:16 2020	May 04 11:06 2020	1 May 2020 8:01 pm
7	2000	May 04 11:16 2020	May 04 11:07 2020	1 May 2020 8:36 pm
8	4000	May 04 11:17 2020	May 04 11:08 2020	1 May 2020 9:11 pm
9	6000	May 04 11:17 2020	May 04 11:10 2020	1 May 2020 9:46 pm
10	8000	May 04 11:17 2020	May 04 11:11 2020	1 May 2020 10:21 pm

SV10_050120.M Tue May 05 14:49:39 2020

Response Factor Report SV-GCMS10

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon May 04 11:17:09 2020
Response Via : Initial Calibration

JK 5/5/20

Calibration Files
20 =J05012011.D 50 =J05012012.D 100 =J05012013.D 200 =J05012014.D 500 =J05012015.D
1000=J05012016.D 2000=J05012017.D 4000=J05012018.D 6000=J05012019.D 8000=J05012020.D

		Compound	20	50	100	200	500	1000	2000	4000	6000	8000	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------											
2)	TG	N-Nitrosodimet...	0.550	0.640	0.728	0.718	0.752	0.732	0.754	0.752	0.792	0.774	0.719	10.02
3)	TG	Pyridine		0.833	0.972	1.152	1.223	1.177	1.270	1.266	1.369	1.335	1.177	14.75
4)	S	2-Fluorophenol...	1.018	1.115	1.118	1.166	1.270	1.259	1.314	1.292	1.320	1.269	1.214	8.48
5)	S	Phenol-d6(Surr)	1.235	1.267	1.313	1.435	1.505	1.542	1.561	1.494	1.488	1.454	1.429	8.14
6)	T	Phenol	1.412	1.187	1.283	1.631	1.524	1.535	1.658	1.576	1.544	1.493	1.484	10.10
7)	T	Aniline	1.251	1.378	1.387	1.512	1.520	1.487	1.503	1.558	1.620	1.675	1.489	8.31
8)	T	Bis(2-chloroet...	1.276	1.317	1.269	1.375	1.417	1.432	1.442	1.285	1.230	1.139	1.318	7.44
9)	T	2-Chlorophenol	1.186	1.226	1.296	1.346	1.457	1.443	1.440	1.384	1.369	1.315	1.346	6.83
10)	T	1,3-Dichlorobe...	1.793	1.693	1.746	1.677	1.711	1.646	1.607	1.530	1.493	1.452	1.635	6.88
11)	T	1,4-Dichlorobe...	1.652	1.711	1.676	1.629	1.678	1.585	1.593	1.488	1.426	1.400	1.584	6.93
12)	T	Benzyl alcohol	0.463	0.492	0.575	0.631	0.733	0.790	0.833	0.817	0.792	0.796	0.692	20.31
13)	T	1,2-Dichlorobe...	1.442	1.615	1.627	1.672	1.673	1.576	1.530	1.418	1.368	1.325	1.525	8.40
14)	T	2-Methylphenol	0.933	0.836	0.948	1.003	1.054	1.057	1.047	0.977	0.925	0.886	0.967	7.76
15)	T	2,2'-Oxybis(1-...	1.028	1.110	1.126	1.126	1.115	1.076	1.027	0.952	0.874	0.840	1.028	10.30
16)	T	N-Nitrosodi-n-...	0.672	0.690	0.765	0.834	0.821	0.813	0.798	0.725	0.700	0.679	0.750	8.48
17)	T	3+4-Methylphenol	1.010	1.047	1.237	1.270	1.337	1.348	1.321	1.199	1.136		1.212	10.26
18)	T	Hexachloroethane	0.484	0.577	0.588	0.570	0.601	0.577	0.590	0.566	0.555	0.551	0.566	5.80
19)	S	Nitrobenzene-d...	1.007	0.993	1.086	1.165	1.193	1.229	1.210	1.148	1.142	1.102	1.127	7.15
20)	T	Nitrobenzene	1.022	1.030	1.167	1.156	1.238	1.185	1.187	1.115	1.084	1.035	1.122	6.78
21)	I	Naphthalene-d8 (ISTD)	----------ISTD----------											
22)	T	Isophorone	0.515	0.543	0.611	0.615	0.624	0.615	0.614	0.586	0.582	0.571	0.588	6.11
23)	T	2-Nitrophenol			0.152	0.162	0.197	0.210	0.201	0.200	0.193	0.193	0.188	10.78
24)	T	2,4-Dimethylph...		0.246	0.266	0.300	0.315	0.316	0.303	0.277	0.266		0.286	9.05

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics

25)	T	Bis(2-chloroet...	0.346	0.375	0.385	0.384	0.394	0.381	0.382	0.357	0.330	0.314	0.365	7.40
26)	T	Benzoic acid					0.044	0.084	0.128	0.174	0.202	0.204	0.140	47.21
27)	T	2,4-Dichloroph...		0.229	0.265	0.287	0.311	0.314	0.323	0.302	0.290	0.276	0.289	10.14
28)	T	1,2,4-Trichlor...	0.382	0.374	0.385	0.391	0.395	0.382	0.368	0.343	0.321	0.313	0.365	8.05
29)	T	Naphthalene	1.122	1.192	1.160	1.177	1.165	1.122	1.064	0.967	0.882	0.834	1.068	12.10
30)	T	4-Chloroaniline	0.258	0.311	0.327	0.353	0.379	0.385	0.365	0.320			0.337	12.44
31)	T	Hexachlorobuta...	0.216	0.241	0.230	0.238	0.240	0.229	0.224	0.213	0.207	0.204	0.224	6.11
32)	T	4-Chloro-3-met...		0.184	0.215	0.240	0.267	0.269	0.283	0.277	0.269	0.259	0.251	13.00
33)	T	2-Methylnaphth...	0.679	0.756	0.786	0.804	0.777	0.766	0.757	0.691	0.649	0.606	0.727	9.12
34)	T	1-Methylnaphth...	0.697	0.718	0.761	0.737	0.728	0.706	0.692	0.637	0.594	0.553	0.682	9.77
35)	I	Acenaphthene-d10 (...	----------ISTD----------											
36)	T	Hexachlorocycl...	0.337	0.363	0.385	0.402	0.436	0.434	0.437	0.443	0.422	0.428	0.409	8.79
37)	T	2,4,6-Trichlor...	0.212	0.263	0.348	0.364	0.433	0.445	0.433	0.446	0.421	0.420	0.379	21.65
38)	T	2,4,5-Trichlor...	0.229	0.269	0.336	0.372	0.434	0.433	0.446	0.438	0.414	0.395	0.377	20.14
39)	T	1,1'-Biphenyl	1.708	1.818	1.908	1.844	1.837	1.780	1.678	1.550	1.390	1.302	1.682	12.18
40)	S	2-Fluorobiphen...	1.635	1.703	1.766	1.741	1.737	1.661	1.591	1.474	1.353	1.272	1.593	10.79
41)	T	2-Chloronaphth...	1.396	1.405	1.470	1.438	1.407	1.361	1.291	1.191	1.083	1.018	1.306	12.01
42)	T	2-Nitroaniline				0.269	0.293	0.362	0.387	0.406	0.403	0.391	0.391	0.363	14.44
43)	T	2,6-Dimethylna...	1.220	1.311	1.348	1.361	1.335	1.287	1.225	1.134	1.026	0.972	1.222	11.20
44)	T	1,4-Dinitroben...		0.077	0.108	0.131	0.166	0.186	0.206	0.212	0.211	0.213	0.168	30.40
45)	T	Dimethyl phtha...	1.287	1.436	1.565	1.595	1.578	1.529	1.483	1.391	1.286	1.253	1.440	9.06
46)	T	1,3-Dinitroben...				0.156	0.172	0.216	0.221	0.236	0.241	0.229	0.231	0.213	14.69
47)	T	2,6-Dinitrotol...				0.279	0.308	0.345	0.340	0.353	0.341	0.321	0.313	0.325	7.57
48)	T	1,2-Dinitroben...				0.124	0.131	0.158	0.159	0.164	0.162	0.153	0.149	0.150	9.95
49)	T	Acenaphthylene	1.838	2.044	2.140	2.180	2.197	2.077	2.001	1.808	1.621	1.493	1.940	12.47
50)	T	3-Nitroaniline		0.181	0.234	0.266	0.305	0.300	0.285	0.164			0.248	22.96
51)	T	Acenaphthene	1.332	1.473	1.410	1.449	1.418	1.367	1.308	1.193	1.101	1.047	1.310	11.31
52)	T	2,4-Dinitrophenol				0.017	0.050	0.081	0.118	0.153	0.162	0.177	0.108	56.21
53)	T	4-Nitrophenol		0.050	0.107	0.133	0.194	0.229	0.249	0.261	0.250	0.262	0.193	40.38
54)	T	2,4-Dinitrotol...		0.227	0.280	0.337	0.407	0.429	0.453	0.452	0.419	0.421	0.380	21.21
55)	T	Dibenzofuran	1.871	1.827	1.992	1.997	1.971	1.896	1.841	1.696	1.544	1.477	1.811	10.11
56)	T	2,3,5,6-Tetrac...		0.129	0.190	0.248	0.327	0.361	0.382	0.388	0.370	0.377	0.308	31.08
57)	T	2,3,4,6-Tetrac...		0.170	0.242	0.310	0.356	0.369	0.385	0.386	0.366	0.371	0.329	22.80
58)	T	Diethyl phthalate	1.385	1.505	1.546	1.546	1.548	1.462	1.354	1.223	1.052	1.012	1.363	14.89
59)	T	2,3,5-Trimethy...	1.116	1.141	1.229	1.284	1.292	1.199	1.125	1.009	0.916	0.861	1.117	13.21

Method Path : C:\msdchem\1\methods\
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60)	T	Fluorene	1.356	1.311	1.560	1.583	1.619	1.486	1.429	1.301	1.170	1.131	1.395	12.18
61)	T	4-Chlorophenyl...	0.723	0.718	0.788	0.791	0.796	0.744	0.726	0.696	0.646	0.639	0.727	7.71
62)	T	4-Nitroaniline				0.184	0.214	0.220	0.229	0.227	0.220	0.208	0.218	0.215	6.60
63)	T	4,6-Dinitro-2-...					0.074	0.135	0.179	0.215	0.244	0.238	0.244	0.190	34.24
64)	I	Phenanthrene-d10 (...	----------ISTD----------												
65)	T	N-Nitrosodiphe...	0.555	0.598	0.670	0.695	0.701	0.667	0.635	0.560	0.510	0.487	0.608	12.73
66)	T	Azobenzene (1,...	0.506	0.581	0.589	0.620	0.618	0.597	0.579	0.519	0.481	0.448	0.554	10.91
67)	S	2,4,6-Tribromo...	0.074	0.093	0.119	0.128	0.142	0.149	0.155	0.156	0.156	0.154	0.133	21.88
68)	T	4-Bromophenyl ...	0.233	0.248	0.253	0.261	0.265	0.254	0.254	0.249	0.244	0.238	0.250	3.89
69)	T	Hexachlorobenzene	0.337	0.353	0.360	0.352	0.336	0.319	0.304	0.289	0.280	0.272	0.320	10.09
70)	T	Pentachlorophe...			0.038	0.073	0.085	0.120	0.141	0.161	0.168	0.169	0.172	0.125	39.28
71)	T	Phenanthrene	1.252	1.206	1.227	1.237	1.220	1.164	1.091	1.022	0.947	0.891	1.126	11.63
72)	T	Anthracene	1.033	1.093	1.170	1.197	1.200	1.164	1.107	1.020	0.937	0.887	1.081	10.10
73)	T	Carbazole	0.734	0.858	0.924	0.975	1.005	0.930	0.813	0.480			0.840	20.24
74)	T	Di-n-butyl pht...				1.043	1.114	1.221	1.228	1.168	1.113	0.990	1.125	7.87
75)	T	Fluoranthene	0.982	1.089	1.194	1.283	1.318	1.315	1.282	1.201			1.208	9.91
76)	T	Benzidine				0.165	0.254	0.388	0.425	0.463	0.422	0.377	0.439	0.367	28.14
77)	T	Pyrene	1.048	1.132	1.247	1.314	1.389	1.316	1.289	1.197	1.101	1.057	1.209	9.93
78)	I	Chrysene-d12 (ISTD)	----------ISTD----------												
79)	S	Terphenyl-d14 ...	0.765	0.895	1.000	1.008	1.056	1.037	1.022	0.991	0.982	0.953	0.971	8.78
80)	T	Butyl benzyl p...			0.199	0.253	0.304	0.403	0.450	0.480	0.507	0.504	0.512	0.401	29.86
81)	T	Bis(2-ethylhex...					0.282	0.364	0.381	0.414	0.429	0.420	0.424	0.388	13.52
82)	T	3,3-Dichlorobe...					0.265	0.220	0.184	0.140	0.125	0.122	0.129	0.169	32.93
83)	T	Benz(a)anthracene	1.184	1.080	1.085	1.128	1.173	1.165	1.168	1.131	1.122	1.104	1.134	3.29
84)	T	Chrysene	1.001	1.081	1.053	1.112	1.132	1.097	1.093	1.067	1.045	1.000	1.068	4.13
85)	T	Bis(2-ethylhex...					0.441	0.589	0.629	0.667	0.674	0.664	0.645	0.616	13.36
86)	I	Perylene-d12 (ISTD)	----------ISTD----------												
87)	T	Di-n-octyl pht...				0.355	0.470	0.766	0.939	1.103	1.184	1.176	1.159	0.894	37.00
88)	T	Benzo(b)fluora...	0.709	0.766	0.887	0.991	1.137	1.129	1.209	1.198	1.192	1.183	1.040	18.25
89)	T	Benzo(k)fluora...	0.682	0.759	0.926	1.027	1.179	1.162	1.164	1.112	1.083	1.030	1.012	17.08
90)	T	Benzo(b+k)fluo...	0.743	0.821	0.957	1.059	1.195	1.181	1.216	1.181	1.164	1.130	1.065	15.83
91)	T	Benzo(e)pyrene	0.712	0.772	0.915	1.019	1.110	1.099	1.125	1.114	1.074	1.055	1.000	14.97
92)	T	Benzo(a)pyrene	0.548	0.630	0.696	0.816	0.956	0.972	1.004	0.995	0.976	0.948	0.854	19.93

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93)	T	Perylene	0.884	0.930	0.992	0.980	1.026	0.993	0.999	0.965	0.944	0.923	0.963	4.45
94)	I	Dibenz(a,h)Anthrce...	----------ISTD----------											
95)	T	Indeno(1,2,3-c...	1.154	1.139	1.126	1.112	1.175	1.132	1.158	1.183	1.222	1.226	1.163	3.34
96)	T	Dibenz(a,h)ant...	0.996	1.003	1.042	1.089	1.148	1.104	1.115	1.132	1.105	1.071	1.081	4.80
97)	T	Benzo(g,h,i)pe...	0.776	0.896	1.041	1.106	1.226	1.207	1.240	1.208	1.179	1.125	1.101	14.06

(#) = Out of Range

Compound List Report SV-GCMS10

Method Path : C:\msdchem\1\methods\
Method File : SV10_050120.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon May 04 11:17:09 2020
Response Via : Initial Calibration

JK 5/5/20

Total Cpnds : 97

All quadratic curve fits are 1/(a^2) except as noted

PK#			Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I		1,4-Dichlorobenzene-d4 (ISTD)	152	6.808	1.000	A	2	A	R
2		T	N-Nitrosodimethylamine	74	4.113	0.604	A	2	A	A
3		T	Pyridine	79	4.150	0.610	A	2	A	A
4	S		2-Fluorophenol (Surr)	112	5.525	0.811	A	1	A	R
5	S		Phenol-d6(Surr)	99	6.434	0.945	A	2	A	R
6		T	Phenol	94	6.445	0.947	A	2	A	R
7		T	Aniline	93	6.482	0.952	A	2	A	R
8		T	Bis(2-chloroethyl) ether	93	6.536	0.960	A	2	A	R
9		T	2-Chlorophenol	128	6.600	0.969	A	2	A	R
10		T	1,3-Dichlorobenzene	146	6.755	0.992	A	2	A	R
11		T	1,4-Dichlorobenzene	146	6.824	1.002	A	2	A	R
12		T	Benzyl alcohol	108	6.931	1.018	Q	2	A	R
13		T	1,2-Dichlorobenzene	146	6.980	1.025	A	2	A	R
14		T	2-Methylphenol	107	7.038	1.034	A	2	A	R
15		T	2,2'-Oxybis(1-Chloropropane)	45	7.071	1.038	A	2	A	R
16		T	N-Nitrosodi-n-propylamine	70	7.199	1.057	A	2	A	R
17		T	3+4-Methylphenol	107	7.188	1.056	A	3	A	R
18		T	Hexachloroethane	201	7.317	1.075	A	2	A	R
19	S		Nitrobenzene-d5 (Surr)	82	7.354	1.080	A	2	A	R
20		T	Nitrobenzene	77	7.370	1.082	A	2	A	R
21	I		Naphthalene-d8 (ISTD)	136	8.081	1.000	A	1	A	R
22		T	Isophorone	82	7.605	0.941	A	2	A	R
23		T	2-Nitrophenol	139	7.690	0.952	A	2	A	R
24		T	2,4-Dimethylphenol	122	7.723	0.956	A	2	A	R
25		T	Bis(2-chloroethoxy) methane	93	7.814	0.967	A	2	A	R
26		T	Benzoic acid	105	7.808	0.966	Q	2	A	R
27		T	2,4-Dichlorophenol	162	7.931	0.981	A	2	A	R
28		T	1,2,4-Trichlorobenzene	180	8.023	0.993	A	2	A	R
29		T	Naphthalene	128	8.103	1.003	A	1	A	R
30		T	4-Chloroaniline	127	8.145	1.008	A	2	A	R
31		T	Hexachlorobutadiene	225	8.231	1.019	A	2	A	R
32		T	4-Chloro-3-methylphenol	107	8.626	1.067	A	2	A	R
33		T	2-Methylnaphthalene	142	8.803	1.089	A	2	A	R
34		T	1-Methylnaphthalene	142	8.905	1.102	A	2	A	R
35	I		Acenaphthene-d10 (ISTD)	162	9.868	1.000	A	2	A	R
36		T	Hexachlorocyclopentadiene	237	8.969	0.909	A	2	A	R
37		T	2,4,6-Trichlorophenol	196	9.082	0.920	Q	2	A	R
38		T	2,4,5-Trichlorophenol	198	9.119	0.924	Q	2	A	R
39		T	1,1'-Biphenyl	154	9.274	0.940	A	2	A	R
40	S		2-Fluorobiphenyl (Surr)	172	9.167	0.929	A	2	A	R
41		T	2-Chloronaphthalene	162	9.296	0.942	A	2	A	R
42		T	2-Nitroaniline	138	9.391	0.952	A	2	A	R
43		T	2,6-Dimethylnaphthalene	156	9.435	0.956	A	2	A	R
44		T	1,4-Dinitrobenzene	168	9.520	0.965	Q	2	A	R
45		T	Dimethyl phthalate	163	9.574	0.970	A	2	A	R
46		T	1,3-Dinitrobenzene	168	9.600	0.973	A	2	A	R
47		T	2,6-Dinitrotoluene	165	9.632	0.976	A	2	A	R
48		T	1,2-Dinitrobenzene	168	9.691	0.982	A	2	A	R
49		T	Acenaphthylene	152	9.723	0.985	A	2	A	R
50		T	3-Nitroaniline	138	9.809	0.994	Q	2	A	R
51		T	Acenaphthene	153	9.900	1.003	A	2	A	R
52		T	2,4-Dinitrophenol	184	9.910	1.004	Q	2	A	R
53		T	4-Nitrophenol	139	9.964	1.010	Q	2	A	R

54	T	2,4-Dinitrotoluene	165	10.044	1.018	Q		2	A	R
55	T	Dibenzofuran	168	10.076	1.021	A		2	A	R
56	T	2,3,5,6-Tetrachlorophenol	232	10.156	1.029	Q		2	A	R
57	T	2,3,4,6-Tetrachlorophenol	232	10.199	1.034	Q		2	A	R
58	T	Diethyl phthalate	149	10.290	1.043	A		2	A	R
59	T	2,3,5-Trimethylnaphthalene	170	10.285	1.042	A		2	A	R
60	T	Fluorene	166	10.429	1.057	A		2	A	R
61	T	4-Chlorophenyl phenyl ether	204	10.419	1.056	A		2	A	R
62	T	4-Nitroaniline	138	10.429	1.057	A		2	A	R
63	T	4,6-Dinitro-2-methylphenol	198	10.461	1.060	Q		2	A	R
64	I	Phenanthrene-d10 (ISTD)	188	11.392	1.000	A		2	A	R
65	T	N-Nitrosodiphenylamine	169	10.536	0.925	A		2	A	R
66	T	Azobenzene (1,2-DPH)	77	10.579	0.929	A		2	A	R
67	S	2,4,6-Tribromophenol (Surr)	330	10.670	0.937	Q		2	A	R
68	T	4-Bromophenyl phenyl ether	248	10.916	0.958	A		2	A	R
69	T	Hexachlorobenzene	284	11.002	0.966	A		2	A	R
70	T	Pentachlorophenol (PCP)	266	11.194	0.983	Q		2	A	R
71	T	Phenanthrene	178	11.414	1.002	A		2	A	R
72	T	Anthracene	178	11.462	1.006	A		2	A	R
73	T	Carbazole	167	11.622	1.020	Q		2	A	R
74	T	Di-n-butyl phthalate	149	11.964	1.050	A		2	A	R
75	T	Fluoranthene	202	12.740	1.118	A		2	A	R
76	T	Benzidine	184	12.900	1.132	Q		2	A	R
77	T	Pyrene	202	13.056	1.146	A		2	A	R
78	I	Chrysene-d12 (ISTD)	240	15.404	1.000	A		2	A	R
79	S	Terphenyl-d14 (Surr)	244	13.270	0.861	A		2	A	R
80	T	Butyl benzyl phthalate	149	14.152	0.919	Q		2	A	R
81	T	Bis(2-ethylhexyl) adipate	129	14.339	0.931	A		2	A	R
82	T	3,3-Dichlorobenzidine	252	15.334	0.995	Q	1/a	2	A	R
83	T	Benz(a)anthracene	228	15.377	0.998	A		2	A	R
84	T	Chrysene	228	15.463	1.004	A		2	A	R
85	T	Bis(2-ethylhexyl) phthalate	149	15.542	1.009	A		2	A	R
86	I	Perylene-d12 (ISTD)	264	18.928	1.000	A		2	A	R
87	T	Di-n-octyl phthalate	149	17.222	0.910	Q		2	A	R
88	T	Benzo(b)fluoranthene	252	18.003	0.951	Q		2	A	R
89	T	Benzo(k)fluoranthene	252	18.067	0.954	Q		2	A	R
90	T	Benzo(b+k)fluoranthene	252	18.067	0.954	Q		2	A	R
91	T	Benzo(e)pyrene	252	18.666	0.986	A		2	A	R
92	T	Benzo(a)pyrene	252	18.784	0.992	Q		2	A	R
93	T	Perylene	252	18.987	1.003	A		2	A	B
94	I	Dibenz(a,h)Anthrcene-d14 (I...	292	21.335	1.000	A		1	A	B
95	T	Indeno(1,2,3-cd)pyrene	276	21.330	1.000	A		1	A	R
96	T	Dibenz(a,h)anthracene	278	21.400	1.003	A		2	A	R
97	T	Benzo(g,h,i)perylene	276	21.875	1.025	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

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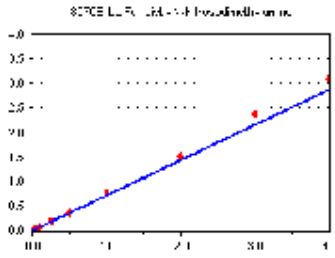
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

N-Nitrosodimethylamine

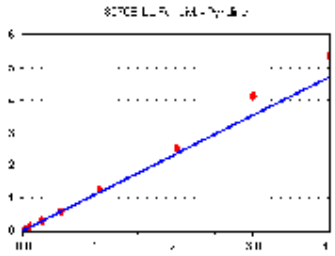


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1056	0.550	4.16
0E01048-CAL2	50	3161	0.640	4.16
0E01048-CAL3	100	6960	0.728	4.11
0E01048-CAL4	200	13019	0.718	4.12
0E01048-CAL5	500	34459	0.752	4.12
0E01048-CAL6	1000	66004	0.732	4.11
0E01048-CAL7	2000	134599	0.754	4.11
0E01048-CAL8	4000	262941	0.752	4.12
0E01048-CAL9	6000	393406	0.792	4.12
0E01048-CALA	8000	504946	0.774	4.13

AVE RF **0.719** RF RSD **10.02** AVE RT **4.13**

Pyridine

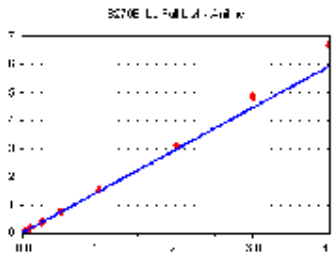


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1772~~	~~0.924~~	~~4.26~~
0E01048-CAL2	50	4118	0.833	4.23
0E01048-CAL3	100	9290	0.972	4.17
0E01048-CAL4	200	20881	1.152	4.17
0E01048-CAL5	500	56059	1.223	4.16
0E01048-CAL6	1000	106090	1.177	4.15
0E01048-CAL7	2000	226549	1.270	4.14
0E01048-CAL8	4000	442936	1.266	4.15
0E01048-CAL9	6000	679950	1.369	4.14
0E01048-CALA	8000	871278	1.335	4.15

AVE RF **1.177** RF RSD **14.75** AVE RT **4.16**

Aniline

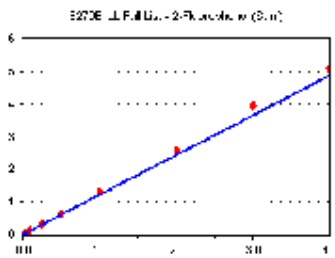


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2400	1.251	0.00
0E01048-CAL2	50	6810	1.378	6.49
0E01048-CAL3	100	13261	1.387	6.48
0E01048-CAL4	200	27397	1.512	6.48
0E01048-CAL5	500	69692	1.520	6.48
0E01048-CAL6	1000	134013	1.487	6.48
0E01048-CAL7	2000	268100	1.503	6.48
0E01048-CAL8	4000	545033	1.558	6.49
0E01048-CAL9	6000	804680	1.620	6.49
0E01048-CALA	8000	1093109	1.675	0.00

AVE RF **1.489** RF RSD **8.31** AVE RT **5.19**

2-Fluorophenol (Surr)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1953	1.018	5.53
0E01048-CAL2	50	5510	1.115	5.54
0E01048-CAL3	100	10683	1.118	5.53
0E01048-CAL4	200	21141	1.166	5.53
0E01048-CAL5	500	58252	1.270	5.53
0E01048-CAL6	1000	113423	1.259	5.53
0E01048-CAL7	2000	234424	1.314	5.53
0E01048-CAL8	4000	452073	1.292	5.53
0E01048-CAL9	6000	655827	1.320	5.53
0E01048-CALA	8000	828011	1.269	5.53

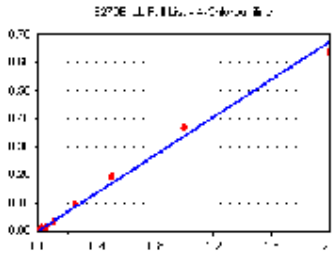
AVE RF **1.214** RF RSD **8.48** AVE RT **5.53**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

4-Chloroaniline

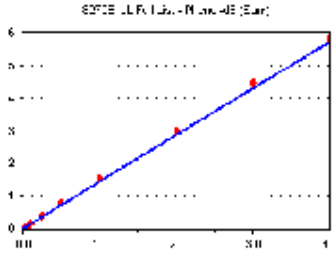


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1892	0.258	8.15
0E01048-CAL2	50	5581	0.311	8.15
0E01048-CAL3	100	11760	0.327	8.15
0E01048-CAL4	200	24483	0.353	8.15
0E01048-CAL5	500	64457	0.379	8.15
0E01048-CAL6	1000	129616	0.385	8.15
0E01048-CAL7	2000	238318	0.365	0.00
0E01048-CAL8	4000	406932	0.320	0.00
~~0E01048-CAL9~~	~~6000~~	~~557000~~	~~0.299~~	~~0.00~~
~~0E01048-CALA~~	~~8000~~	~~713100~~	~~0.293~~	~~0.00~~

AVE RF **0.337** RF RSD **12.44** AVE RT **6.11**

Phenol-d6 (Surr)

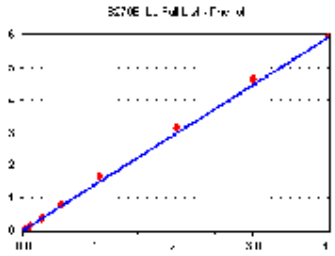


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2369	1.235	6.43
0E01048-CAL2	50	6261	1.267	6.43
0E01048-CAL3	100	12550	1.313	6.43
0E01048-CAL4	200	26007	1.435	6.43
0E01048-CAL5	500	69027	1.505	6.43
0E01048-CAL6	1000	138996	1.542	6.43
0E01048-CAL7	2000	278467	1.561	6.43
0E01048-CAL8	4000	522506	1.494	6.45
0E01048-CAL9	6000	739081	1.488	6.45
0E01048-CALA	8000	948776	1.454	6.46

AVE RF **1.429** RF RSD **8.14** AVE RT **6.44**

Phenol

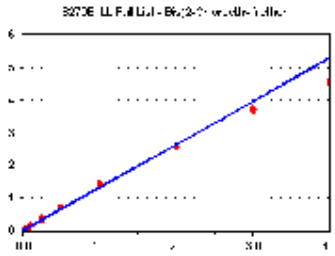


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2710	1.412	6.45
0E01048-CAL2	50	5865	1.187	6.45
0E01048-CAL3	100	12267	1.283	6.45
0E01048-CAL4	200	29567	1.631	6.45
0E01048-CAL5	500	69878	1.524	6.45
0E01048-CAL6	1000	138337	1.535	6.45
0E01048-CAL7	2000	295844	1.658	6.45
0E01048-CAL8	4000	551221	1.576	6.46
0E01048-CAL9	6000	767137	1.544	6.47
0E01048-CALA	8000	974066	1.493	6.47

AVE RF **1.484** RF RSD **10.10** AVE RT **6.45**

Bis(2-Chloroethyl) ether



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2449	1.276	6.54
0E01048-CAL2	50	6507	1.317	6.54
0E01048-CAL3	100	12128	1.269	6.54
0E01048-CAL4	200	24922	1.375	6.54
0E01048-CAL5	500	64951	1.417	6.54
0E01048-CAL6	1000	129066	1.432	6.54
0E01048-CAL7	2000	257343	1.442	6.54
0E01048-CAL8	4000	449460	1.285	6.55
0E01048-CAL9	6000	610903	1.230	6.55
0E01048-CALA	8000	743153	1.139	6.55

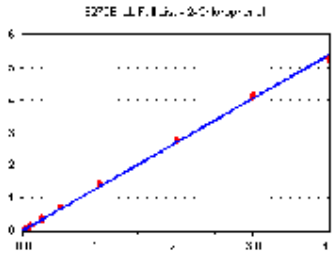
AVE RF **1.318** RF RSD **7.44** AVE RT **6.54**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2-Chlorophenol

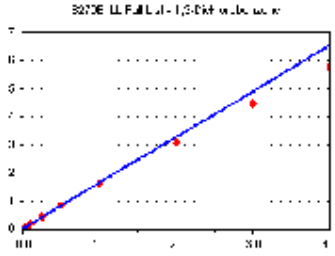


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2275	1.186	6.60
0E01048-CAL2	50	6059	1.226	6.61
0E01048-CAL3	100	12387	1.296	6.60
0E01048-CAL4	200	24400	1.346	6.60
0E01048-CAL5	500	66822	1.457	6.60
0E01048-CAL6	1000	130032	1.443	6.60
0E01048-CAL7	2000	256829	1.440	6.61
0E01048-CAL8	4000	484213	1.384	6.61
0E01048-CAL9	6000	680218	1.369	6.61
0E01048-CALA	8000	858273	1.315	6.61

AVE RF **1.346** RF RSD **6.83** AVE RT **6.60**

1,3-Dichlorobenzene

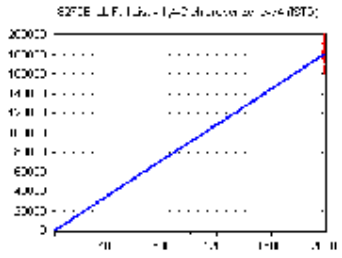


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3441	1.793	6.76
0E01048-CAL2	50	8367	1.693	6.76
0E01048-CAL3	100	16686	1.746	6.76
0E01048-CAL4	200	30392	1.677	6.76
0E01048-CAL5	500	78446	1.711	6.76
0E01048-CAL6	1000	148363	1.646	6.76
0E01048-CAL7	2000	286729	1.607	6.76
0E01048-CAL8	4000	535315	1.530	6.76
0E01048-CAL9	6000	741627	1.493	6.76
0E01048-CALA	8000	947173	1.452	6.76

AVE RF **1.635** RF RSD **6.88** AVE RT **6.76**

1,4-Dichlorobenzene-d4 (ISTD)

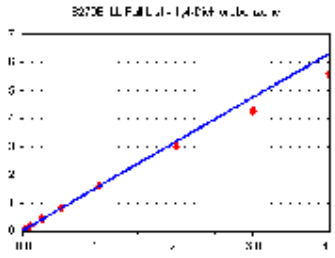


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	191864	95.932	6.81
0E01048-CAL2	2000	197701	98.850	6.81
0E01048-CAL3	2000	191183	95.591	6.80
0E01048-CAL4	2000	181235	90.618	6.81
0E01048-CAL5	2000	183403	91.701	6.81
0E01048-CAL6	2000	180245	90.123	6.81
0E01048-CAL7	2000	178407	89.204	6.81
0E01048-CAL8	2000	174907	87.454	6.81
0E01048-CAL9	2000	165574	82.787	6.81
0E01048-CALA	2000	163128	81.564	6.81

AVE RF **90.382** RF RSD **6.14** AVE RT **6.81**

1,4-Dichlorobenzene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3170	1.652	6.82
0E01048-CAL2	50	8455	1.711	6.82
0E01048-CAL3	100	16022	1.676	6.82
0E01048-CAL4	200	29528	1.629	6.82
0E01048-CAL5	500	76922	1.678	6.82
0E01048-CAL6	1000	142848	1.585	6.82
0E01048-CAL7	2000	284248	1.593	6.82
0E01048-CAL8	4000	520387	1.488	6.83
0E01048-CAL9	6000	708159	1.426	6.83
0E01048-CALA	8000	913373	1.400	6.83

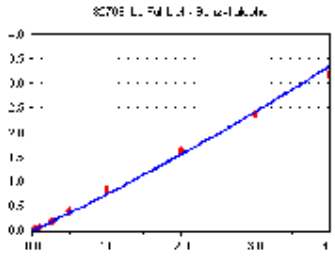
AVE RF **1.584** RF RSD **6.93** AVE RT **6.83**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Benzyl alcohol

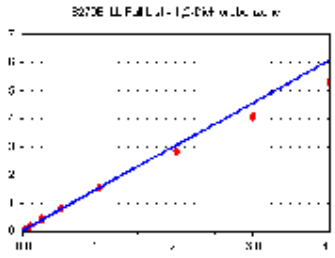


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	888	0.463	6.94
0E01048-CAL2	50	2430	0.492	6.94
0E01048-CAL3	100	5492	0.575	6.93
0E01048-CAL4	200	11440	0.631	6.94
0E01048-CAL5	500	33612	0.733	6.93
0E01048-CAL6	1000	71211	0.790	6.93
0E01048-CAL7	2000	148637	0.833	6.94
0E01048-CAL8	4000	285840	0.817	6.94
0E01048-CAL9	6000	393544	0.792	6.95
0E01048-CALA	8000	519355	0.796	6.96

AVE RF **0.692** RF RSD **20.31** AVE RT **6.94**

1,2-Dichlorobenzene

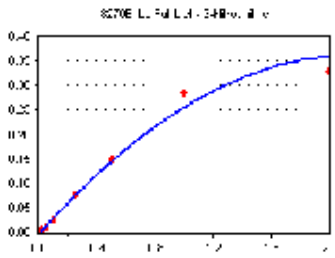


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2766	1.442	6.98
0E01048-CAL2	50	7982	1.615	6.98
0E01048-CAL3	100	15557	1.627	6.97
0E01048-CAL4	200	30294	1.672	6.98
0E01048-CAL5	500	76724	1.673	6.98
0E01048-CAL6	1000	142058	1.576	6.98
0E01048-CAL7	2000	273037	1.530	6.98
0E01048-CAL8	4000	496140	1.418	6.98
0E01048-CAL9	6000	679700	1.368	6.99
0E01048-CALA	8000	864319	1.325	6.99

AVE RF **1.525** RF RSD **8.40** AVE RT **6.98**

3-Nitroaniline

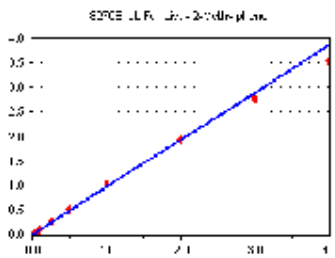


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~409~~	~~0.114~~	~~9.81~~
0E01048-CAL2	50	1541	0.181	9.81
0E01048-CAL3	100	4153	0.234	9.81
0E01048-CAL4	200	9251	0.266	9.80
0E01048-CAL5	500	25545	0.305	9.80
0E01048-CAL6	1000	50804	0.300	9.81
0E01048-CAL7	2000	95947	0.285	0.00
0E01048-CAL8	4000	105482	0.164	0.00
~~0E01048-CAL9~~	~~6000~~	~~134645~~	~~0.138~~	~~0.00~~
~~0E01048-CALA~~	~~8000~~	~~210733~~	~~0.168~~	~~0.00~~

AVE RF **0.248** RF RSD **22.96** AVE RT **7.00**

2-Methylphenol



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1790	0.933	7.04
0E01048-CAL2	50	4132	0.836	7.04
0E01048-CAL3	100	9064	0.948	7.04
0E01048-CAL4	200	18182	1.003	7.04
0E01048-CAL5	500	48344	1.054	7.04
0E01048-CAL6	1000	95275	1.057	7.04
0E01048-CAL7	2000	186846	1.047	7.04
0E01048-CAL8	4000	341774	0.977	7.04
0E01048-CAL9	6000	459315	0.925	7.05
0E01048-CALA	8000	577925	0.886	7.05

AVE RF **0.967** RF RSD **7.76** AVE RT **7.04**

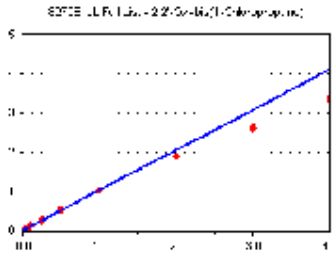
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,2'-Oxybis(1-Chloropropane)

Curve Fit: **AVERAGE RF**

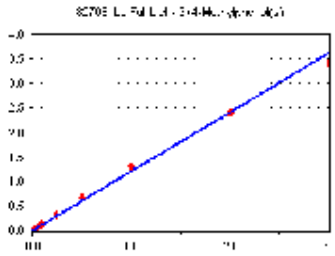


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1973	1.028	7.07
0E01048-CAL2	50	5484	1.110	7.07
0E01048-CAL3	100	10763	1.126	7.07
0E01048-CAL4	200	20415	1.126	7.07
0E01048-CAL5	500	51146	1.115	7.07
0E01048-CAL6	1000	96994	1.076	7.07
0E01048-CAL7	2000	183240	1.027	7.07
0E01048-CAL8	4000	333090	0.952	7.07
0E01048-CAL9	6000	433983	0.874	7.08
0E01048-CALA	8000	548150	0.840	7.08

AVE RF **1.028** RF RSD **10.30** AVE RT **7.07**

3+4-Methylphenol(s)

Curve Fit: **AVERAGE RF**

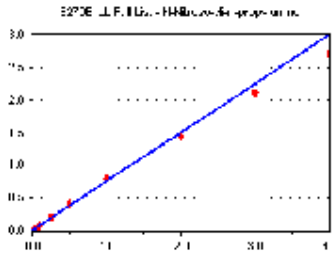


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1938	1.010	7.19
0E01048-CAL2	50	5177	1.047	7.19
0E01048-CAL3	100	11824	1.237	7.19
0E01048-CAL4	200	23011	1.270	7.19
0E01048-CAL5	500	61306	1.337	7.19
0E01048-CAL6	1000	121441	1.348	7.19
0E01048-CAL7	2000	235635	1.321	7.19
0E01048-CAL8	4000	419273	1.199	7.20
0E01048-CAL9	6000	564140	1.136	7.21
~~0E01048-CALA~~	~~8000~~	~~709231~~	~~1.087~~	~~7.22~~

AVE RF **1.212** RF RSD **10.26** AVE RT **7.19**

N-Nitroso-di-n-propylamine

Curve Fit: **AVERAGE RF**

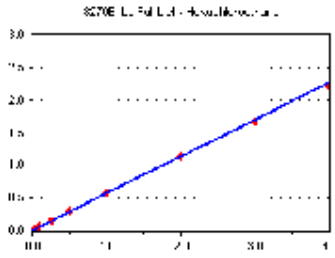


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1290	0.672	7.20
0E01048-CAL2	50	3408	0.690	7.20
0E01048-CAL3	100	7313	0.765	7.19
0E01048-CAL4	200	15112	0.834	7.19
0E01048-CAL5	500	37629	0.821	7.19
0E01048-CAL6	1000	73246	0.813	7.20
0E01048-CAL7	2000	142353	0.798	7.20
0E01048-CAL8	4000	253448	0.725	7.21
0E01048-CAL9	6000	347925	0.700	7.22
0E01048-CALA	8000	442984	0.679	7.23

AVE RF **0.750** RF RSD **8.48** AVE RT **7.20**

Hexachloroethane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	928	0.484	7.32
0E01048-CAL2	50	2852	0.577	7.32
0E01048-CAL3	100	5625	0.588	7.32
0E01048-CAL4	200	10331	0.570	7.32
0E01048-CAL5	500	27570	0.601	7.32
0E01048-CAL6	1000	52010	0.577	7.32
0E01048-CAL7	2000	105262	0.590	7.32
0E01048-CAL8	4000	197978	0.566	7.32
0E01048-CAL9	6000	275750	0.555	7.32
0E01048-CALA	8000	359667	0.551	7.32

AVE RF **0.566** RF RSD **5.80** AVE RT **7.32**

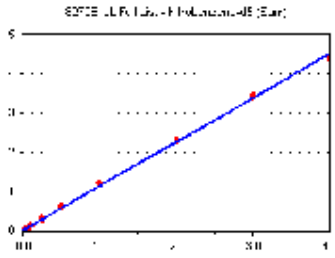
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Nitrobenzene-d5 (Surr)

Curve Fit: **AVERAGE RF**

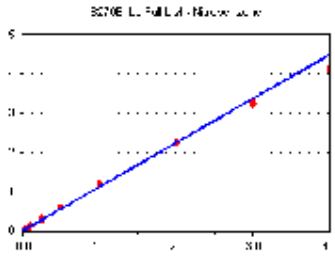


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1932	1.007	7.35
0E01048-CAL2	50	4906	0.993	7.35
0E01048-CAL3	100	10384	1.086	7.35
0E01048-CAL4	200	21119	1.165	7.35
0E01048-CAL5	500	54703	1.193	7.35
0E01048-CAL6	1000	110753	1.229	7.35
0E01048-CAL7	2000	215838	1.210	7.35
0E01048-CAL8	4000	401506	1.148	7.36
0E01048-CAL9	6000	567191	1.142	7.37
0E01048-CALA	8000	719111	1.102	7.37

AVE RF **1.127** RF RSD **7.15** AVE RT **7.36**

Nitrobenzene

Curve Fit: **AVERAGE RF**

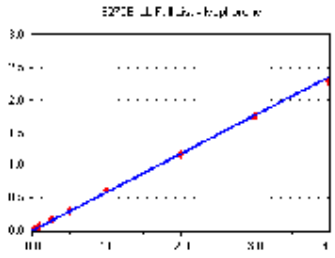


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1961	1.022	7.37
0E01048-CAL2	50	5092	1.030	7.37
0E01048-CAL3	100	11151	1.167	7.37
0E01048-CAL4	200	20957	1.156	7.37
0E01048-CAL5	500	56770	1.238	7.37
0E01048-CAL6	1000	106757	1.185	7.37
0E01048-CAL7	2000	211732	1.187	7.38
0E01048-CAL8	4000	390099	1.115	7.38
0E01048-CAL9	6000	538665	1.084	7.39
0E01048-CALA	8000	675628	1.035	7.39

AVE RF **1.122** RF RSD **6.78** AVE RT **7.37**

Isophorone

Curve Fit: **AVERAGE RF**

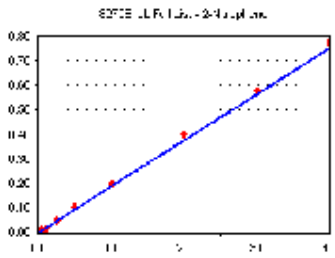


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3772	0.515	7.61
0E01048-CAL2	50	9735	0.543	7.61
0E01048-CAL3	100	21958	0.611	7.61
0E01048-CAL4	200	42630	0.615	7.61
0E01048-CAL5	500	106164	0.624	7.61
0E01048-CAL6	1000	207129	0.615	7.61
0E01048-CAL7	2000	400253	0.614	7.61
0E01048-CAL8	4000	745397	0.586	7.62
0E01048-CAL9	6000	1085451	0.582	7.63
0E01048-CALA	8000	1387142	0.571	7.64

AVE RF **0.588** RF RSD **6.11** AVE RT **7.61**

2-Nitrophenol

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~743~~	~~0.102~~	~~7.70~~
~~0E01048-CAL2~~	~~50~~	~~1960~~	~~0.109~~	~~7.70~~
0E01048-CAL3	100	5456	0.152	7.69
0E01048-CAL4	200	11238	0.162	7.69
0E01048-CAL5	500	33472	0.197	7.69
0E01048-CAL6	1000	70564	0.210	7.69
0E01048-CAL7	2000	130953	0.201	7.70
0E01048-CAL8	4000	254617	0.200	7.70
0E01048-CAL9	6000	359445	0.193	7.70
0E01048-CALA	8000	470113	0.193	7.70

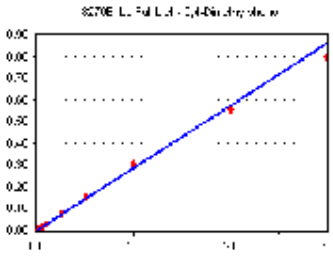
AVE RF **0.188** RF RSD **10.78** AVE RT **7.70**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,4-Dimethylphenol

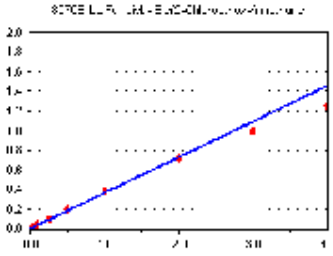


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1501~~	~~0.205~~	~~7.72~~
0E01048-CAL2	50	4417	0.246	7.72
0E01048-CAL3	100	9568	0.266	7.72
0E01048-CAL4	200	20813	0.300	7.72
0E01048-CAL5	500	53592	0.315	7.72
0E01048-CAL6	1000	106366	0.316	7.72
0E01048-CAL7	2000	197821	0.303	7.73
0E01048-CAL8	4000	351489	0.277	7.73
0E01048-CAL9	6000	496307	0.266	7.74
~~0E01048-CALA~~	~~8000~~	~~624108~~	~~0.257~~	~~7.74~~

AVE RF **0.286** RF RSD **9.05** AVE RT **7.73**

Bis(2-Chloroethoxy) methane

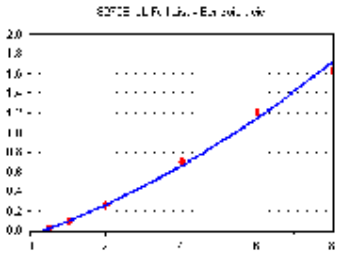


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2531	0.346	7.81
0E01048-CAL2	50	6717	0.375	7.81
0E01048-CAL3	100	13856	0.385	7.81
0E01048-CAL4	200	26612	0.384	7.81
0E01048-CAL5	500	67001	0.394	7.81
0E01048-CAL6	1000	128175	0.381	7.81
0E01048-CAL7	2000	249308	0.382	7.82
0E01048-CAL8	4000	453427	0.357	7.83
0E01048-CAL9	6000	615100	0.330	7.83
0E01048-CALA	8000	762034	0.314	7.83

AVE RF **0.365** RF RSD **7.40** AVE RT **7.82**

Benzoic acid

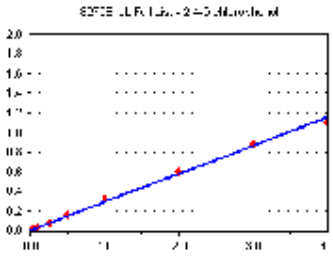


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~40~~	~~423~~	~~2.890~~	~~7.92~~
~~0E01048-CAL2~~	~~100~~	~~180~~	~~5.019~~	~~7.73~~
~~0E01048-CAL3~~	~~200~~	~~469~~	~~6.523~~	~~7.76~~
~~0E01048-CAL4~~	~~400~~	~~1715~~	~~1.238~~	~~7.76~~
0E01048-CAL5	1000	14918	4.382	7.78
0E01048-CAL6	2000	56683	0.084	7.81
0E01048-CAL7	4000	167185	0.128	7.84
0E01048-CAL8	8000	443484	0.174	7.89
0E01048-CAL9	12000	754829	0.202	7.92
0E01048-CALA	16000	992195	0.204	7.93

AVE RF **0.140** RF RSD **47.21** AVE RT **7.86**

2,4-Dichlorophenol



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1526~~	~~0.208~~	~~7.93~~
0E01048-CAL2	50	4099	0.229	7.93
0E01048-CAL3	100	9523	0.265	7.93
0E01048-CAL4	200	19883	0.287	7.93
0E01048-CAL5	500	53024	0.311	7.93
0E01048-CAL6	1000	105774	0.314	7.93
0E01048-CAL7	2000	210329	0.323	7.94
0E01048-CAL8	4000	384242	0.302	7.94
0E01048-CAL9	6000	541260	0.290	7.94
0E01048-CALA	8000	670509	0.276	7.95

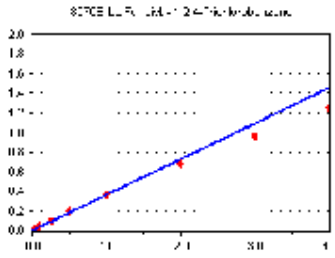
AVE RF **0.289** RF RSD **10.14** AVE RT **7.94**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,2,4-Trichlorobenzene

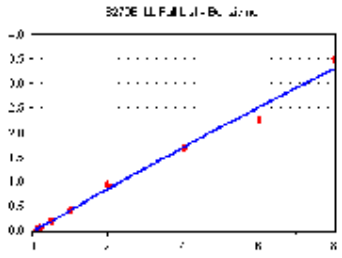


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2793	0.382	8.02
0E01048-CAL2	50	6705	0.374	8.02
0E01048-CAL3	100	13851	0.385	8.02
0E01048-CAL4	200	27062	0.391	8.02
0E01048-CAL5	500	67284	0.395	8.02
0E01048-CAL6	1000	128491	0.382	8.02
0E01048-CAL7	2000	239774	0.368	8.02
0E01048-CAL8	4000	435878	0.343	8.03
0E01048-CAL9	6000	598290	0.321	8.03
0E01048-CALA	8000	760344	0.313	8.03

AVE RF **0.365** RF RSD **8.05** AVE RT **8.02**

Benzidine

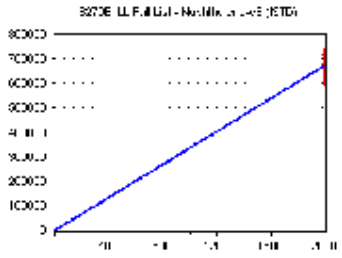


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~40~~	~~1586~~	~~0.132~~	~~12.90~~
~~0E01048-CAL2~~	~~100~~	~~3900~~	~~0.136~~	~~12.90~~
0E01048-CAL3	200	10676	0.165	12.90
0E01048-CAL4	400	32317	0.254	12.90
0E01048-CAL5	1000	122263	0.388	12.90
0E01048-CAL6	2000	273104	0.425	12.90
0E01048-CAL7	4000	596002	0.463	12.92
0E01048-CAL8	8000	1057265	0.422	0.00
0E01048-CAL9	12000	1394496	0.377	0.00
0E01048-CALA	16000	2171552	0.439	0.00

AVE RF **0.367** RF RSD **28.14** AVE RT **8.06**

Naphthalene-d8 (ISTD)

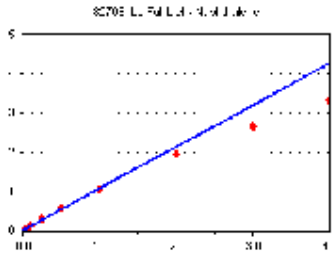


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	731955	365.978	8.08
0E01048-CAL2	2000	717228	358.614	8.08
0E01048-CAL3	2000	719013	359.507	8.08
0E01048-CAL4	2000	692848	346.424	8.08
0E01048-CAL5	2000	680915	340.458	8.08
0E01048-CAL6	2000	673130	336.565	8.08
0E01048-CAL7	2000	652077	326.038	8.08
0E01048-CAL8	2000	635505	317.753	8.09
0E01048-CAL9	2000	621657	310.828	8.09
0E01048-CALA	2000	607439	303.720	8.09

AVE RF **336.588** RF RSD **6.41** AVE RT **8.08**

Naphthalene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	8211	1.122	8.10
0E01048-CAL2	50	21366	1.192	8.10
0E01048-CAL3	100	41691	1.160	8.10
0E01048-CAL4	200	81565	1.177	8.10
0E01048-CAL5	500	198240	1.165	8.10
0E01048-CAL6	1000	377684	1.122	8.10
0E01048-CAL7	2000	693722	1.064	8.10
0E01048-CAL8	4000	1228640	0.967	8.11
0E01048-CAL9	6000	1645822	0.882	8.11
0E01048-CALA	8000	2025811	0.834	8.11

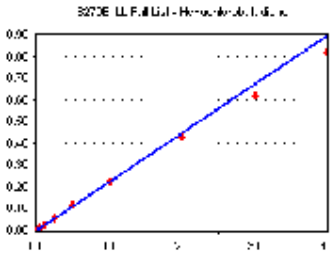
AVE RF **1.068** RF RSD **12.10** AVE RT **8.11**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Hexachlorobutadiene

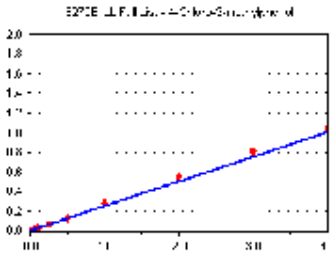


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1579	0.216	8.23
0E01048-CAL2	50	4330	0.241	8.23
0E01048-CAL3	100	8263	0.230	8.23
0E01048-CAL4	200	16461	0.238	8.23
0E01048-CAL5	500	40832	0.240	8.23
0E01048-CAL6	1000	77201	0.229	8.23
0E01048-CAL7	2000	146383	0.224	8.23
0E01048-CAL8	4000	270996	0.213	8.24
0E01048-CAL9	6000	385170	0.207	8.24
0E01048-CALA	8000	495957	0.204	8.24

AVE RF **0.224** RF RSD **6.11** AVE RT **8.23**

4-Chloro-3-methylphenol

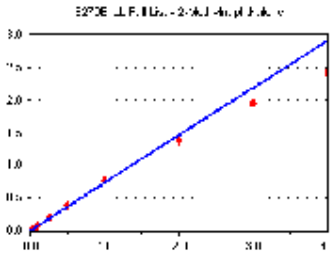


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1075~~	~~0.147~~	~~8.63~~
0E01048-CAL2	50	3304	0.184	8.63
0E01048-CAL3	100	7712	0.215	8.63
0E01048-CAL4	200	16620	0.240	8.63
0E01048-CAL5	500	45413	0.267	8.62
0E01048-CAL6	1000	90591	0.269	8.63
0E01048-CAL7	2000	184384	0.283	8.63
0E01048-CAL8	4000	351606	0.277	8.63
0E01048-CAL9	6000	501798	0.269	8.63
0E01048-CALA	8000	629786	0.259	8.64

AVE RF **0.251** RF RSD **13.00** AVE RT **8.63**

2-Methylnaphthalene

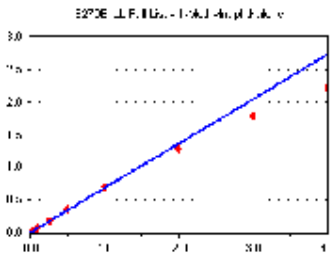


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4968	0.679	8.80
0E01048-CAL2	50	13555	0.756	8.80
0E01048-CAL3	100	28255	0.786	8.80
0E01048-CAL4	200	55698	0.804	8.80
0E01048-CAL5	500	132345	0.777	8.80
0E01048-CAL6	1000	257721	0.766	8.80
0E01048-CAL7	2000	493469	0.757	8.80
0E01048-CAL8	4000	877955	0.691	8.81
0E01048-CAL9	6000	1210517	0.649	8.81
0E01048-CALA	8000	1471994	0.606	8.81

AVE RF **0.727** RF RSD **9.12** AVE RT **8.80**

1-Methylnaphthalene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5104	0.697	8.91
0E01048-CAL2	50	12870	0.718	8.91
0E01048-CAL3	100	27373	0.761	8.91
0E01048-CAL4	200	51095	0.737	8.90
0E01048-CAL5	500	123884	0.728	8.91
0E01048-CAL6	1000	237648	0.706	8.91
0E01048-CAL7	2000	451130	0.692	8.91
0E01048-CAL8	4000	809740	0.637	8.91
0E01048-CAL9	6000	1107064	0.594	8.91
0E01048-CALA	8000	1344642	0.553	8.91

AVE RF **0.682** RF RSD **9.77** AVE RT **8.91**

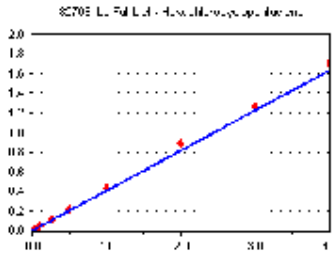
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Hexachlorocyclopentadiene

Curve Fit: **AVERAGE RF**

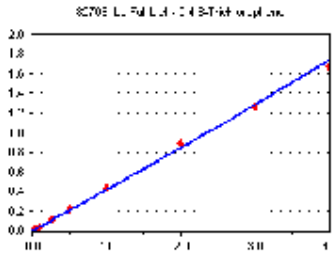


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1207	0.337	8.97
0E01048-CAL2	50	3097	0.363	8.97
0E01048-CAL3	100	6851	0.385	8.97
0E01048-CAL4	200	13997	0.402	8.97
0E01048-CAL5	500	36462	0.436	8.97
0E01048-CAL6	1000	73630	0.434	8.97
0E01048-CAL7	2000	147214	0.437	8.98
0E01048-CAL8	4000	284487	0.443	8.98
0E01048-CAL9	6000	412390	0.422	8.98
0E01048-CALA	8000	536854	0.428	8.98

AVE RF **0.409** RF RSD **8.79** AVE RT **8.97**

2,4,6-Trichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

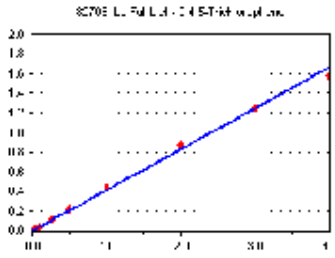


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	759	0.212	9.09
0E01048-CAL2	50	2246	0.263	9.09
0E01048-CAL3	100	6196	0.348	9.08
0E01048-CAL4	200	12664	0.364	9.08
0E01048-CAL5	500	36271	0.433	9.08
0E01048-CAL6	1000	75420	0.445	9.08
0E01048-CAL7	2000	145792	0.433	9.09
0E01048-CAL8	4000	286551	0.446	9.09
0E01048-CAL9	6000	411313	0.421	9.09
0E01048-CALA	8000	526956	0.420	9.09

AVE RF **0.379** RF RSD **21.65** AVE RT **9.09**

2,4,5-Trichlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

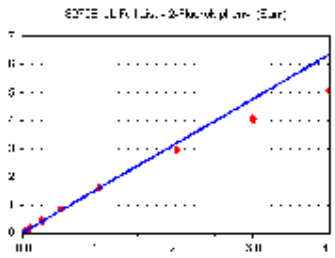


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	819	0.229	9.12
0E01048-CAL2	50	2298	0.269	9.12
0E01048-CAL3	100	5978	0.336	9.12
0E01048-CAL4	200	12930	0.372	9.12
0E01048-CAL5	500	36303	0.434	9.12
0E01048-CAL6	1000	73502	0.433	9.12
0E01048-CAL7	2000	150181	0.446	9.12
0E01048-CAL8	4000	281418	0.438	9.12
0E01048-CAL9	6000	405084	0.414	9.13
0E01048-CALA	8000	495222	0.395	9.13

AVE RF **0.377** RF RSD **20.14** AVE RT **9.12**

2-Fluorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5848	1.635	9.17
0E01048-CAL2	50	14529	1.703	9.17
0E01048-CAL3	100	31404	1.766	9.17
0E01048-CAL4	200	60557	1.741	9.17
0E01048-CAL5	500	145387	1.737	9.17
0E01048-CAL6	1000	281689	1.661	9.17
0E01048-CAL7	2000	535435	1.591	9.17
0E01048-CAL8	4000	947130	1.474	9.17
0E01048-CAL9	6000	1323459	1.353	9.18
0E01048-CALA	8000	1596212	1.272	9.18

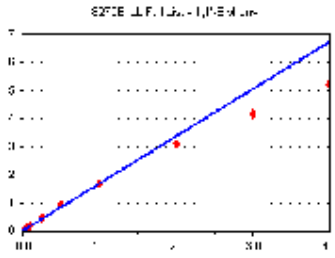
AVE RF **1.593** RF RSD **10.79** AVE RT **9.17**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,1'-Biphenyl

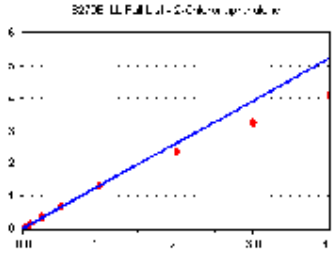


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6111	1.708	9.27
0E01048-CAL2	50	15507	1.818	9.27
0E01048-CAL3	100	33925	1.908	9.27
0E01048-CAL4	200	64137	1.844	9.27
0E01048-CAL5	500	153742	1.837	9.27
0E01048-CAL6	1000	301856	1.780	9.27
0E01048-CAL7	2000	564946	1.678	9.27
0E01048-CAL8	4000	996176	1.550	9.28
0E01048-CAL9	6000	1359592	1.390	9.28
0E01048-CALA	8000	1633908	1.302	9.29

AVE RF **1.682** RF RSD **12.18** AVE RT **9.28**

2-Chloronaphthalene

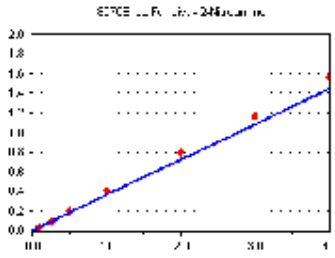


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4995	1.396	9.30
0E01048-CAL2	50	11987	1.405	9.30
0E01048-CAL3	100	26139	1.470	9.30
0E01048-CAL4	200	50017	1.438	9.30
0E01048-CAL5	500	117743	1.407	9.30
0E01048-CAL6	1000	230860	1.361	9.30
0E01048-CAL7	2000	434449	1.291	9.30
0E01048-CAL8	4000	765622	1.191	9.31
0E01048-CAL9	6000	1059335	1.083	9.31
0E01048-CALA	8000	1278066	1.018	9.31

AVE RF **1.306** RF RSD **12.01** AVE RT **9.30**

2-Nitroaniline

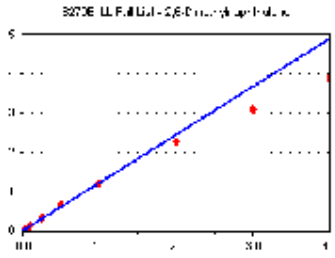


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~581~~	~~0.162~~	~~9.39~~
~~0E01048-CAL2~~	~~50~~	~~1497~~	~~0.176~~	~~9.39~~
0E01048-CAL3	100	4785	0.269	9.39
0E01048-CAL4	200	10206	0.293	9.39
0E01048-CAL5	500	30298	0.362	9.39
0E01048-CAL6	1000	65577	0.387	9.39
0E01048-CAL7	2000	136747	0.406	9.40
0E01048-CAL8	4000	258700	0.403	9.40
0E01048-CAL9	6000	382203	0.391	9.41
0E01048-CALA	8000	490776	0.391	9.41

AVE RF **0.363** RF RSD **14.44** AVE RT **9.40**

2,6-Dimethylnaphthalene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4365	1.220	9.43
0E01048-CAL2	50	11180	1.311	9.44
0E01048-CAL3	100	23962	1.348	9.44
0E01048-CAL4	200	47338	1.361	9.43
0E01048-CAL5	500	111733	1.335	9.44
0E01048-CAL6	1000	218308	1.287	9.44
0E01048-CAL7	2000	412298	1.225	9.44
0E01048-CAL8	4000	728975	1.134	9.44
0E01048-CAL9	6000	1003034	1.026	9.45
0E01048-CALA	8000	1220442	0.972	9.45

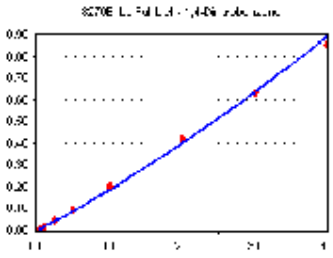
AVE RF **1.222** RF RSD **11.20** AVE RT **9.44**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,4-Dinitrobenzene

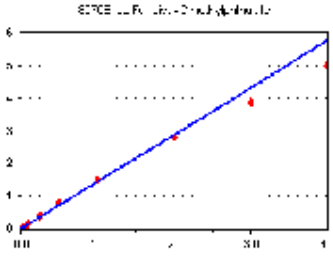


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~221~~	~~6.179~~	~~9.52~~
0E01048-CAL2	50	660	7.738	9.52
0E01048-CAL3	100	1916	0.108	9.52
0E01048-CAL4	200	4549	0.131	9.52
0E01048-CAL5	500	13891	0.166	9.52
0E01048-CAL6	1000	31602	0.186	9.52
0E01048-CAL7	2000	69428	0.206	9.53
0E01048-CAL8	4000	136292	0.212	9.53
0E01048-CAL9	6000	205994	0.211	9.54
0E01048-CALA	8000	267475	0.213	9.54

AVE RF **0.168** RF RSD **30.40** AVE RT **9.52**

Dimethylphthalate

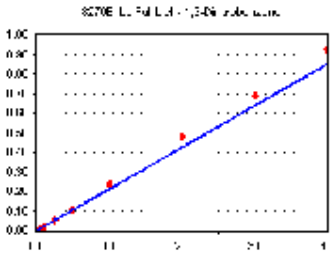


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4603	1.287	9.57
0E01048-CAL2	50	12248	1.436	9.57
0E01048-CAL3	100	27818	1.565	9.57
0E01048-CAL4	200	55476	1.595	9.57
0E01048-CAL5	500	132075	1.578	9.57
0E01048-CAL6	1000	259401	1.529	9.57
0E01048-CAL7	2000	499048	1.483	9.58
0E01048-CAL8	4000	894138	1.391	9.58
0E01048-CAL9	6000	1257398	1.286	9.60
0E01048-CALA	8000	1572205	1.253	9.60

AVE RF **1.440** RF RSD **9.06** AVE RT **9.58**

1,3-Dinitrobenzene

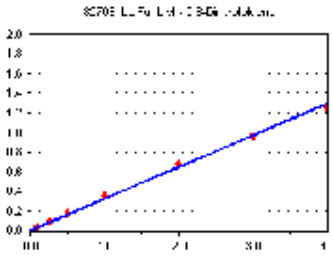


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~296~~	~~8.275~~	~~9.61~~
~~0E01048-CAL2~~	~~50~~	~~893~~	~~0.105~~	~~9.60~~
0E01048-CAL3	100	2780	0.156	9.60
0E01048-CAL4	200	5993	0.172	9.60
0E01048-CAL5	500	18060	0.216	9.60
0E01048-CAL6	1000	37452	0.221	9.60
0E01048-CAL7	2000	79439	0.236	9.61
0E01048-CAL8	4000	154967	0.241	9.62
0E01048-CAL9	6000	223699	0.229	9.62
0E01048-CALA	8000	290499	0.231	9.63

AVE RF **0.213** RF RSD **14.69** AVE RT **9.61**

2,6-Dinitrotoluene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~551~~	~~0.154~~	~~9.63~~
~~0E01048-CAL2~~	~~50~~	~~1733~~	~~0.203~~	~~9.63~~
0E01048-CAL3	100	4956	0.279	9.63
0E01048-CAL4	200	10708	0.308	9.63
0E01048-CAL5	500	28845	0.345	9.63
0E01048-CAL6	1000	57671	0.340	9.63
0E01048-CAL7	2000	118828	0.353	9.64
0E01048-CAL8	4000	219135	0.341	9.64
0E01048-CAL9	6000	313636	0.321	9.65
0E01048-CALA	8000	393388	0.313	9.65

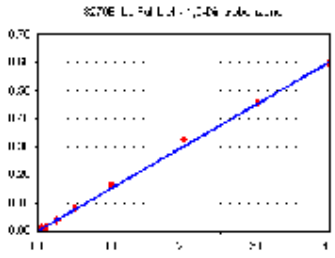
AVE RF **0.325** RF RSD **7.57** AVE RT **9.64**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

1,2-Dinitrobenzene

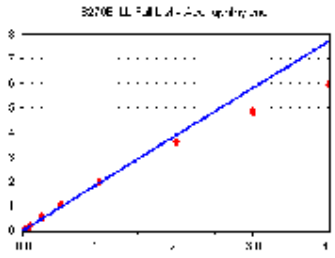


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~228~~	~~6.374~~	~~9.69~~
~~0E01048-CAL2~~	~~50~~	~~779~~	~~9.133~~	~~9.69~~
0E01048-CAL3	100	2197	0.124	9.69
0E01048-CAL4	200	4556	0.131	9.69
0E01048-CAL5	500	13224	0.158	9.69
0E01048-CAL6	1000	27052	0.159	9.69
0E01048-CAL7	2000	55084	0.164	9.70
0E01048-CAL8	4000	104188	0.162	9.71
0E01048-CAL9	6000	149729	0.153	9.72
0E01048-CALA	8000	187132	0.149	9.72

AVE RF **0.150** RF RSD **9.95** AVE RT **9.70**

Acenaphthylene

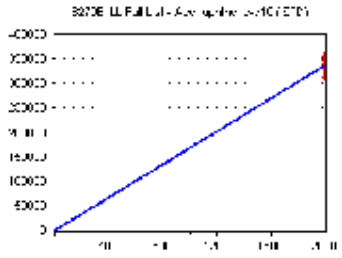


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6575	1.838	9.72
0E01048-CAL2	50	17439	2.044	9.72
0E01048-CAL3	100	38044	2.140	9.72
0E01048-CAL4	200	75817	2.180	9.72
0E01048-CAL5	500	183911	2.197	9.72
0E01048-CAL6	1000	352233	2.077	9.72
0E01048-CAL7	2000	673465	2.001	9.73
0E01048-CAL8	4000	1161710	1.808	9.73
0E01048-CAL9	6000	1585324	1.621	9.73
0E01048-CALA	8000	1874093	1.493	9.73

AVE RF **1.940** RF RSD **12.47** AVE RT **9.73**

Acenaphthene-d10 (ISTD)

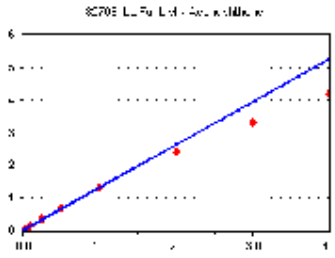


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	357685	178.843	9.87
0E01048-CAL2	2000	341194	170.597	9.87
0E01048-CAL3	2000	355600	177.800	9.87
0E01048-CAL4	2000	347809	173.905	9.87
0E01048-CAL5	2000	334768	167.384	9.87
0E01048-CAL6	2000	339213	169.607	9.87
0E01048-CAL7	2000	336578	168.289	9.87
0E01048-CAL8	2000	321338	160.669	9.87
0E01048-CAL9	2000	325974	162.987	9.87
0E01048-CALA	2000	313797	156.899	9.88

AVE RF **168.698** RF RSD **4.22** AVE RT **9.87**

Acenaphthene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4764	1.332	9.90
0E01048-CAL2	50	12562	1.473	9.90
0E01048-CAL3	100	25073	1.410	9.90
0E01048-CAL4	200	50397	1.449	9.90
0E01048-CAL5	500	118657	1.418	9.90
0E01048-CAL6	1000	231769	1.367	9.90
0E01048-CAL7	2000	440129	1.308	9.91
0E01048-CAL8	4000	767014	1.193	9.91
0E01048-CAL9	6000	1076553	1.101	9.91
0E01048-CALA	8000	1314111	1.047	9.92

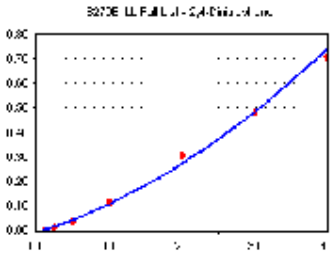
AVE RF **1.310** RF RSD **11.31** AVE RT **9.90**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,4-Dinitrophenol

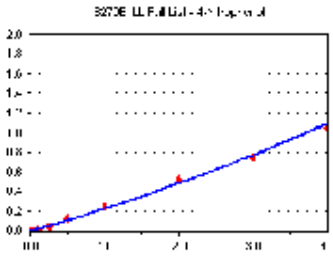


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01048-CAL2~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01048-CAL3~~	~~100~~	~~186~~	~~1.046~~	~~9.92~~
0E01048-CAL4	200	590	1.696	9.91
0E01048-CAL5	500	4171	0.050	9.91
0E01048-CAL6	1000	13736	8.099	9.91
0E01048-CAL7	2000	39777	0.118	9.92
0E01048-CAL8	4000	98071	0.153	9.92
0E01048-CAL9	6000	158485	0.162	9.93
0E01048-CALA	8000	222605	0.177	9.93

AVE RF **0.108** RF RSD **56.21** AVE RT **9.92**

4-Nitrophenol

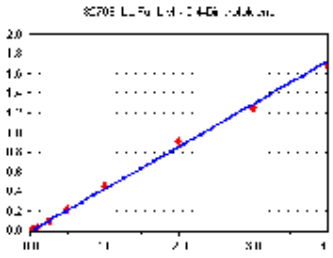


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~183~~	~~5.116~~	~~9.97~~
0E01048-CAL2	50	426	4.994	9.96
0E01048-CAL3	100	1906	0.107	9.96
0E01048-CAL4	200	4625	0.133	9.96
0E01048-CAL5	500	16246	0.194	9.96
0E01048-CAL6	1000	38821	0.229	9.96
0E01048-CAL7	2000	83836	0.249	9.97
0E01048-CAL8	4000	167465	0.261	9.98
0E01048-CAL9	6000	244656	0.250	9.99
0E01048-CALA	8000	328927	0.262	10.00

AVE RF **0.193** RF RSD **40.38** AVE RT **9.97**

2,4-Dinitrotoluene

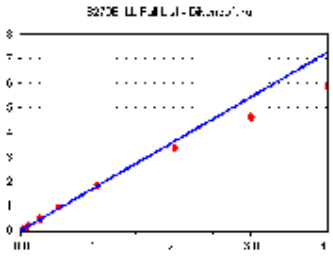


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~603~~	~~0.169~~	~~10.04~~
0E01048-CAL2	50	1933	0.227	10.04
0E01048-CAL3	100	4977	0.280	10.04
0E01048-CAL4	200	11730	0.337	10.04
0E01048-CAL5	500	34026	0.407	10.04
0E01048-CAL6	1000	72794	0.429	10.04
0E01048-CAL7	2000	152328	0.453	10.05
0E01048-CAL8	4000	290214	0.452	10.06
0E01048-CAL9	6000	409733	0.419	10.07
0E01048-CALA	8000	528085	0.421	10.07

AVE RF **0.380** RF RSD **21.21** AVE RT **10.05**

Dibenzofuran



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6693	1.871	10.08
0E01048-CAL2	50	15584	1.827	10.08
0E01048-CAL3	100	35418	1.992	10.08
0E01048-CAL4	200	69462	1.997	10.08
0E01048-CAL5	500	164955	1.971	10.08
0E01048-CAL6	1000	321608	1.896	10.08
0E01048-CAL7	2000	619598	1.841	10.08
0E01048-CAL8	4000	1089674	1.696	10.08
0E01048-CAL9	6000	1509514	1.544	10.09
0E01048-CALA	8000	1853746	1.477	10.09

AVE RF **1.811** RF RSD **10.11** AVE RT **10.08**

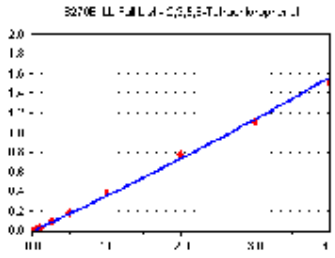
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

2,3,5,6-Tetrachlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

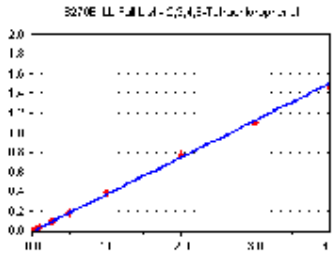


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~293~~	~~8.192~~	~~10.16~~
0E01048-CAL2	50	1097	0.129	10.16
0E01048-CAL3	100	3387	0.190	10.16
0E01048-CAL4	200	8629	0.248	10.15
0E01048-CAL5	500	27343	0.327	10.16
0E01048-CAL6	1000	61190	0.361	10.16
0E01048-CAL7	2000	128576	0.382	10.16
0E01048-CAL8	4000	249569	0.388	10.16
0E01048-CAL9	6000	362239	0.370	10.16
0E01048-CALA	8000	473333	0.377	10.17

AVE RF **0.308** RF RSD **31.08** AVE RT **10.16**

2,3,4,6-Tetrachlorophenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

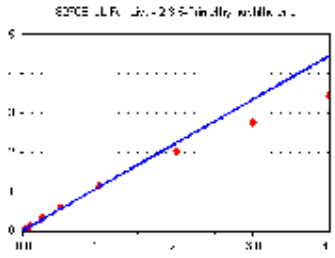


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~383~~	~~0.107~~	~~10.21~~
0E01048-CAL2	50	1453	0.170	10.20
0E01048-CAL3	100	4311	0.242	10.20
0E01048-CAL4	200	10787	0.310	10.20
0E01048-CAL5	500	29826	0.356	10.20
0E01048-CAL6	1000	62656	0.369	10.20
0E01048-CAL7	2000	129498	0.385	10.21
0E01048-CAL8	4000	247870	0.386	10.21
0E01048-CAL9	6000	358335	0.366	10.21
0E01048-CALA	8000	465875	0.371	10.21

AVE RF **0.329** RF RSD **22.80** AVE RT **10.20**

2,3,5-Trimethylnaphthalene

Curve Fit: **AVERAGE RF**

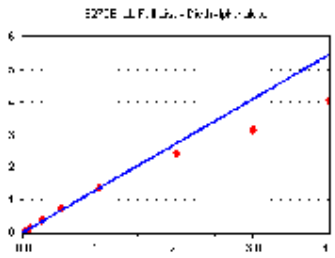


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3993	1.116	10.29
0E01048-CAL2	50	9734	1.141	10.29
0E01048-CAL3	100	21856	1.229	10.29
0E01048-CAL4	200	44649	1.284	10.29
0E01048-CAL5	500	108132	1.292	10.29
0E01048-CAL6	1000	203355	1.199	10.29
0E01048-CAL7	2000	378517	1.125	10.29
0E01048-CAL8	4000	648195	1.009	10.30
0E01048-CAL9	6000	895832	0.916	10.30
0E01048-CALA	8000	1081008	0.861	10.30

AVE RF **1.117** RF RSD **13.21** AVE RT **10.29**

Diethylphthalate

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4954	1.385	10.29
0E01048-CAL2	50	12841	1.505	10.29
0E01048-CAL3	100	27495	1.546	10.29
0E01048-CAL4	200	53766	1.546	10.29
0E01048-CAL5	500	129544	1.548	10.29
0E01048-CAL6	1000	247936	1.462	10.29
0E01048-CAL7	2000	455636	1.354	10.30
0E01048-CAL8	4000	786255	1.223	10.30
0E01048-CAL9	6000	1028926	1.052	10.31
0E01048-CALA	8000	1270464	1.012	10.31

AVE RF **1.363** RF RSD **14.89** AVE RT **10.29**

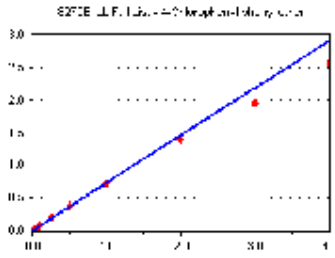
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

4-Chlorophenyl phenyl ether

Curve Fit: **AVERAGE RF**

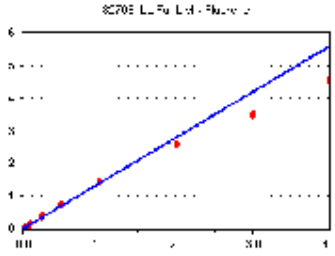


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2587	0.723	10.42
0E01048-CAL2	50	6122	0.718	10.42
0E01048-CAL3	100	14011	0.788	10.42
0E01048-CAL4	200	27516	0.791	10.42
0E01048-CAL5	500	66625	0.796	10.42
0E01048-CAL6	1000	126110	0.744	10.42
0E01048-CAL7	2000	244428	0.726	10.42
0E01048-CAL8	4000	447464	0.696	10.42
0E01048-CAL9	6000	631834	0.646	10.42
0E01048-CALA	8000	801674	0.639	10.43

AVE RF **0.727** RF RSD **7.71** AVE RT **10.42**

Fluorene

Curve Fit: **AVERAGE RF**

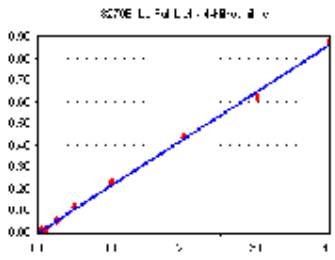


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4850	1.356	10.42
0E01048-CAL2	50	11179	1.311	10.42
0E01048-CAL3	100	27734	1.560	10.43
0E01048-CAL4	200	55055	1.583	10.42
0E01048-CAL5	500	135494	1.619	10.42
0E01048-CAL6	1000	252058	1.486	10.43
0E01048-CAL7	2000	480963	1.429	10.43
0E01048-CAL8	4000	836388	1.301	10.44
0E01048-CAL9	6000	1143948	1.170	10.44
0E01048-CALA	8000	1419760	1.131	10.44

AVE RF **1.395** RF RSD **12.18** AVE RT **10.43**

4-Nitroaniline

Curve Fit: **AVERAGE RF**

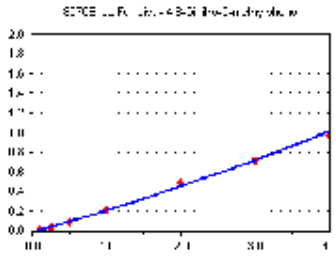


Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~433~~	~~0.121~~	~~10.43~~
~~0E01048-CAL2~~	~~50~~	~~1234~~	~~0.145~~	~~10.43~~
0E01048-CAL3	100	3272	0.184	10.43
0E01048-CAL4	200	7453	0.214	10.43
0E01048-CAL5	500	18421	0.220	10.43
0E01048-CAL6	1000	38891	0.229	10.43
0E01048-CAL7	2000	76264	0.227	10.44
0E01048-CAL8	4000	141155	0.220	10.45
0E01048-CAL9	6000	203041	0.208	10.46
0E01048-CALA	8000	273695	0.218	10.46

AVE RF **0.215** RF RSD **6.60** AVE RT **10.44**

4,6-Dinitro-2-methylphenol

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01048-CAL2~~	~~50~~	~~137~~	~~1.606~~	~~10.46~~
~~0E01048-CAL3~~	~~100~~	~~765~~	~~4.303~~	~~10.46~~
0E01048-CAL4	200	2570	7.389	10.46
0E01048-CAL5	500	11323	0.135	10.46
0E01048-CAL6	1000	30354	0.179	10.46
0E01048-CAL7	2000	72474	0.215	10.47
0E01048-CAL8	4000	156895	0.244	10.48
0E01048-CAL9	6000	232609	0.238	10.49
0E01048-CALA	8000	306192	0.244	10.49

AVE RF **0.190** RF RSD **34.24** AVE RT **10.47**

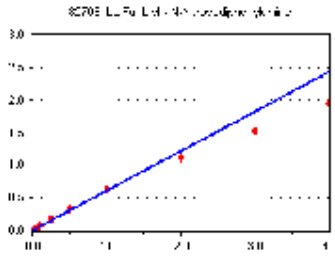
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

N-Nitrosodiphenylamine

Curve Fit: **AVERAGE RF**

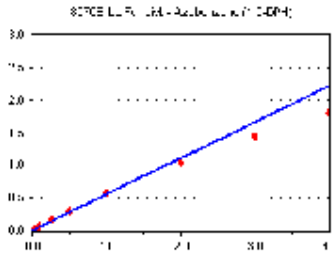


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3338	0.555	10.53
0E01048-CAL2	50	8596	0.598	10.53
0E01048-CAL3	100	21618	0.670	10.54
0E01048-CAL4	200	44173	0.695	10.53
0E01048-CAL5	500	110562	0.701	10.53
0E01048-CAL6	1000	214512	0.667	10.54
0E01048-CAL7	2000	408855	0.635	10.54
0E01048-CAL8	4000	702299	0.560	10.55
0E01048-CAL9	6000	942017	0.510	10.55
0E01048-CALA	8000	1205586	0.487	10.55

AVE RF **0.608** RF RSD **12.73** AVE RT **10.54**

Azobenzene (1,2-DPH)

Curve Fit: **AVERAGE RF**

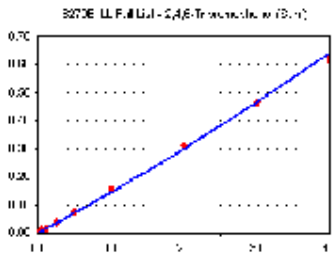


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3045	0.506	10.58
0E01048-CAL2	50	8356	0.581	10.58
0E01048-CAL3	100	19007	0.589	10.58
0E01048-CAL4	200	39378	0.620	10.58
0E01048-CAL5	500	97518	0.618	10.58
0E01048-CAL6	1000	191839	0.597	10.58
0E01048-CAL7	2000	372273	0.579	10.58
0E01048-CAL8	4000	651181	0.519	10.59
0E01048-CAL9	6000	888474	0.481	10.59
0E01048-CALA	8000	1110225	0.448	10.60

AVE RF **0.554** RF RSD **10.91** AVE RT **10.58**

2,4,6-Tribromophenol (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

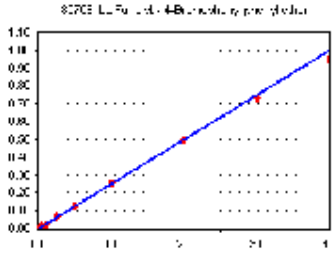


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	445	7.395	10.67
0E01048-CAL2	50	1336	9.289	10.67
0E01048-CAL3	100	3853	0.119	10.68
0E01048-CAL4	200	8155	0.128	10.67
0E01048-CAL5	500	22448	0.142	10.67
0E01048-CAL6	1000	47944	0.149	10.67
0E01048-CAL7	2000	99669	0.155	10.68
0E01048-CAL8	4000	195059	0.156	10.68
0E01048-CAL9	6000	287674	0.156	10.69
0E01048-CALA	8000	380681	0.154	10.69

AVE RF **0.133** RF RSD **21.88** AVE RT **10.68**

4-Bromophenyl phenyl ether

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	1403	0.233	10.92
0E01048-CAL2	50	3567	0.248	10.92
0E01048-CAL3	100	8166	0.253	10.92
0E01048-CAL4	200	16553	0.261	10.92
0E01048-CAL5	500	41767	0.265	10.92
0E01048-CAL6	1000	81757	0.254	10.92
0E01048-CAL7	2000	163489	0.254	10.92
0E01048-CAL8	4000	311932	0.249	10.93
0E01048-CAL9	6000	451078	0.244	10.93
0E01048-CALA	8000	588449	0.238	10.93

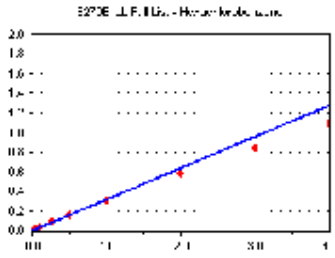
AVE RF **0.250** RF RSD **3.89** AVE RT **10.92**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Hexachlorobenzene

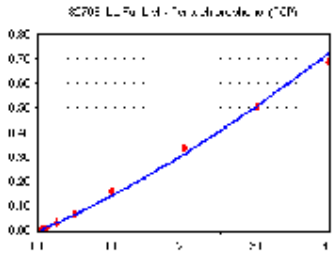


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	2025	0.337	11.00
0E01048-CAL2	50	5084	0.353	11.00
0E01048-CAL3	100	11614	0.360	11.00
0E01048-CAL4	200	22342	0.352	11.00
0E01048-CAL5	500	53003	0.336	11.00
0E01048-CAL6	1000	102514	0.319	11.00
0E01048-CAL7	2000	195498	0.304	11.01
0E01048-CAL8	4000	362746	0.289	11.01
0E01048-CAL9	6000	517399	0.280	11.01
0E01048-CALA	8000	672890	0.272	11.01

AVE RF **0.320** RF RSD **10.09** AVE RT **11.01**

Pentachlorophenol (PCP)

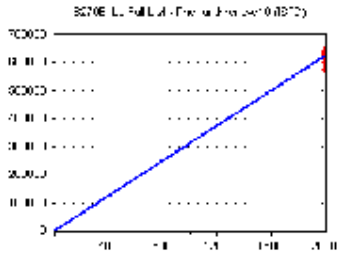


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~102~~	~~1.695~~	~~11.19~~
0E01048-CAL2	50	552	3.838	11.20
0E01048-CAL3	100	2358	0.073	11.19
0E01048-CAL4	200	5400	8.502	11.19
0E01048-CAL5	500	18897	0.120	11.19
0E01048-CAL6	1000	45305	0.141	11.19
0E01048-CAL7	2000	103626	0.161	11.20
0E01048-CAL8	4000	211120	0.168	11.20
0E01048-CAL9	6000	312170	0.169	11.20
0E01048-CALA	8000	425010	0.172	11.21

AVE RF **0.125** RF RSD **39.28** AVE RT **11.20**

Phenanthrene-d10 (ISTD)

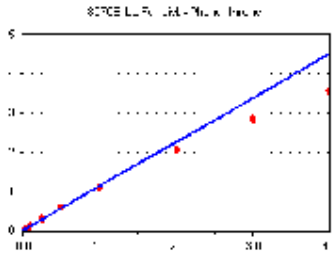


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	601725	300.863	11.39
0E01048-CAL2	2000	575287	287.643	11.39
0E01048-CAL3	2000	645096	322.548	11.39
0E01048-CAL4	2000	635167	317.583	11.39
0E01048-CAL5	2000	630899	315.450	11.39
0E01048-CAL6	2000	643209	321.605	11.39
0E01048-CAL7	2000	643513	321.757	11.39
0E01048-CAL8	2000	626814	313.407	11.39
0E01048-CAL9	2000	615884	307.942	11.40
0E01048-CALA	2000	618950	309.475	11.40

AVE RF **311.827** RF RSD **3.52** AVE RT **11.39**

Phenanthrene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	7531	1.252	11.41
0E01048-CAL2	50	17339	1.206	11.41
0E01048-CAL3	100	39573	1.227	11.41
0E01048-CAL4	200	78539	1.237	11.41
0E01048-CAL5	500	192437	1.220	11.41
0E01048-CAL6	1000	374187	1.164	11.41
0E01048-CAL7	2000	702306	1.091	11.42
0E01048-CAL8	4000	1281640	1.022	11.42
0E01048-CAL9	6000	1749249	0.947	11.42
0E01048-CALA	8000	2205671	0.891	11.42

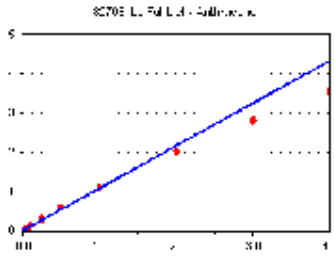
AVE RF **1.126** RF RSD **11.63** AVE RT **11.42**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Anthracene

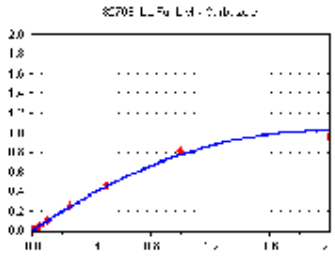


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6216	1.033	11.46
0E01048-CAL2	50	15713	1.093	11.46
0E01048-CAL3	100	37735	1.170	11.46
0E01048-CAL4	200	76033	1.197	11.46
0E01048-CAL5	500	189259	1.200	11.46
0E01048-CAL6	1000	374197	1.164	11.46
0E01048-CAL7	2000	712315	1.107	11.47
0E01048-CAL8	4000	1278996	1.020	11.47
0E01048-CAL9	6000	1732004	0.937	11.48
0E01048-CALA	8000	2197141	0.887	11.48

AVE RF **1.081** RF RSD **10.10** AVE RT **11.47**

Carbazole

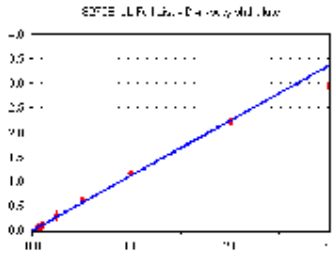


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4414	0.734	11.62
0E01048-CAL2	50	12342	0.858	11.62
0E01048-CAL3	100	29809	0.924	11.62
0E01048-CAL4	200	61914	0.975	11.62
0E01048-CAL5	500	158571	1.005	11.62
0E01048-CAL6	1000	298950	0.930	11.62
0E01048-CAL7	2000	523258	0.813	11.63
0E01048-CAL8	4000	602292	0.480	11.63
~~0E01048-CAL9~~	~~6000~~	~~685341~~	~~0.371~~	~~11.63~~
~~0E01048-CALA~~	~~8000~~	~~1042183~~	~~0.421~~	~~11.63~~

AVE RF **0.840** RF RSD **20.24** AVE RT **11.62**

Di-n-butylphthalate

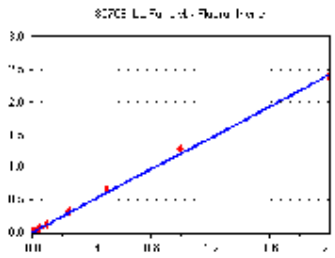


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~5086~~	~~0.845~~	~~11.96~~
~~0E01048-CAL2~~	~~50~~	~~13365~~	~~0.929~~	~~11.96~~
0E01048-CAL3	100	33644	1.043	11.97
0E01048-CAL4	200	70740	1.114	11.96
0E01048-CAL5	500	192660	1.221	11.97
0E01048-CAL6	1000	394866	1.228	11.97
0E01048-CAL7	2000	751793	1.168	11.98
0E01048-CAL8	4000	1394915	1.113	11.98
0E01048-CAL9	6000	1828582	0.990	11.98
~~0E01048-CALA~~	~~8000~~	~~2399103~~	~~0.969~~	~~11.98~~

AVE RF **1.125** RF RSD **7.87** AVE RT **11.97**

Fluoranthene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5907	0.982	12.74
0E01048-CAL2	50	15666	1.089	12.74
0E01048-CAL3	100	38512	1.194	12.74
0E01048-CAL4	200	81473	1.283	12.74
0E01048-CAL5	500	207862	1.318	12.74
0E01048-CAL6	1000	422934	1.315	12.74
0E01048-CAL7	2000	825251	1.282	12.75
0E01048-CAL8	4000	1505186	1.201	12.75
~~0E01048-CAL9~~	~~6000~~	~~2010843~~	~~1.088~~	~~12.76~~
~~0E01048-CALA~~	~~8000~~	~~2637205~~	~~1.065~~	~~12.76~~

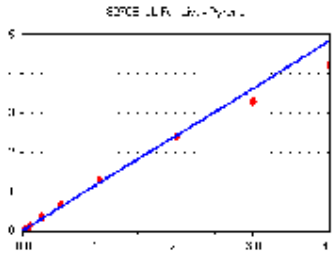
AVE RF **1.208** RF RSD **9.91** AVE RT **12.74**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Pyrene

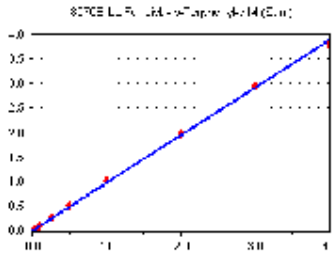


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6308	1.048	13.06
0E01048-CAL2	50	16274	1.132	13.06
0E01048-CAL3	100	40211	1.247	13.06
0E01048-CAL4	200	83478	1.314	13.06
0E01048-CAL5	500	219139	1.389	13.06
0E01048-CAL6	1000	423172	1.316	13.06
0E01048-CAL7	2000	829284	1.289	13.07
0E01048-CAL8	4000	1501003	1.197	13.07
0E01048-CAL9	6000	2033824	1.101	13.07
0E01048-CALA	8000	2616481	1.057	13.08

AVE RF **1.209** RF RSD **9.93** AVE RT **13.06**

p-Terphenyl-d14 (Surr)

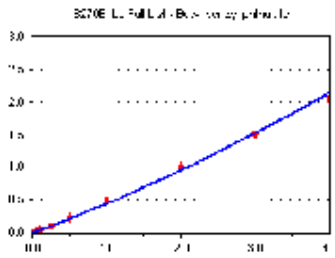


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4927	0.765	13.28
0E01048-CAL2	50	13754	0.895	13.28
0E01048-CAL3	100	33303	1.000	13.27
0E01048-CAL4	200	66177	1.008	13.27
0E01048-CAL5	500	170092	1.056	13.27
0E01048-CAL6	1000	335419	1.037	13.27
0E01048-CAL7	2000	649225	1.022	13.29
0E01048-CAL8	4000	1222290	0.991	13.29
0E01048-CAL9	6000	1636098	0.982	13.29
0E01048-CALA	8000	2208764	0.953	13.29

AVE RF **0.971** RF RSD **8.78** AVE RT **13.28**

Butyl benzyl phthalate

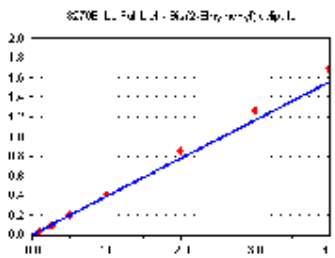


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1032~~	~~0.160~~	~~14.16~~
0E01048-CAL2	50	3054	0.199	14.16
0E01048-CAL3	100	8439	0.253	14.15
0E01048-CAL4	200	19934	0.304	14.16
0E01048-CAL5	500	64881	0.403	14.15
0E01048-CAL6	1000	145488	0.450	14.15
0E01048-CAL7	2000	304776	0.480	14.17
0E01048-CAL8	4000	625201	0.507	14.17
0E01048-CAL9	6000	839217	0.504	14.17
0E01048-CALA	8000	1186472	0.512	14.18

AVE RF **0.401** RF RSD **29.86** AVE RT **14.16**

Bis(2-Ethylhexyl) adipate



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1334~~	~~0.207~~	~~14.34~~
~~0E01048-CAL2~~	~~50~~	~~3128~~	~~0.204~~	~~14.35~~
~~0E01048-CAL3~~	~~100~~	~~7943~~	~~0.239~~	~~14.35~~
0E01048-CAL4	200	18549	0.282	14.34
0E01048-CAL5	500	58573	0.364	14.34
0E01048-CAL6	1000	123453	0.381	14.34
0E01048-CAL7	2000	263361	0.414	14.37
0E01048-CAL8	4000	529388	0.429	14.36
0E01048-CAL9	6000	700244	0.420	14.36
0E01048-CALA	8000	982873	0.424	14.37

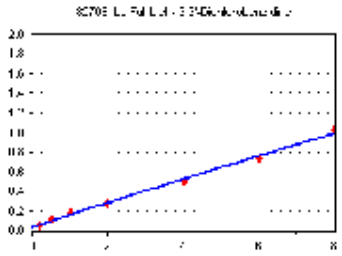
AVE RF **0.388** RF RSD **13.52** AVE RT **14.35**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

3,3'-Dichlorobenzidine

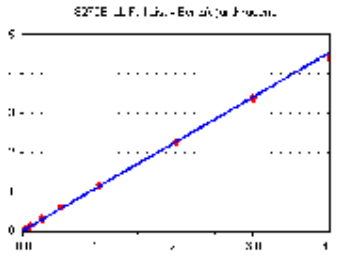


Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~40~~	~~2441~~	~~0.189~~	~~0.00~~
~~0E01048-CAL2~~	~~100~~	~~6397~~	~~0.208~~	~~0.00~~
~~0E01048-CAL3~~	~~200~~	~~16151~~	~~0.243~~	~~15.33~~
0E01048-CAL4	400	34852	0.265	15.33
0E01048-CAL5	1000	70720	0.220	15.33
0E01048-CAL6	2000	118777	0.184	15.33
0E01048-CAL7	4000	178328	0.140	15.37
0E01048-CAL8	8000	309410	0.125	15.37
0E01048-CAL9	12000	405603	0.122	15.37
0E01048-CALA	16000	596438	0.129	15.38

AVE RF **0.169** RF RSD **32.93** AVE RT **15.35**

Benz(a)anthracene

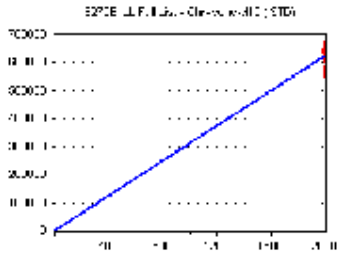


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	7626	1.184	15.38
0E01048-CAL2	50	16598	1.080	15.38
0E01048-CAL3	100	36118	1.085	15.38
0E01048-CAL4	200	74103	1.128	15.37
0E01048-CAL5	500	188950	1.173	15.38
0E01048-CAL6	1000	376853	1.165	15.38
0E01048-CAL7	2000	742522	1.168	15.40
0E01048-CAL8	4000	1395465	1.131	15.40
0E01048-CAL9	6000	1868254	1.122	15.41
0E01048-CALA	8000	2560645	1.104	15.41

AVE RF **1.134** RF RSD **3.29** AVE RT **15.39**

Chrysene-d12 (ISTD)

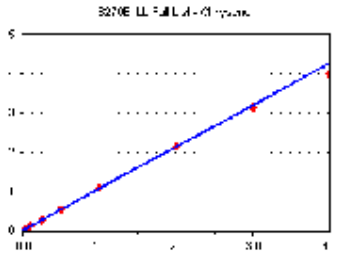


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	644210	322.105	15.40
0E01048-CAL2	2000	614670	307.335	15.41
0E01048-CAL3	2000	665942	332.971	15.40
0E01048-CAL4	2000	656760	328.380	15.40
0E01048-CAL5	2000	644327	322.163	15.40
0E01048-CAL6	2000	647204	323.602	15.40
0E01048-CAL7	2000	635452	317.726	15.43
0E01048-CAL8	2000	616881	308.440	15.43
0E01048-CAL9	2000	555110	277.555	15.43
0E01048-CALA	2000	579608	289.804	15.44

AVE RF **313.008** RF RSD **5.62** AVE RT **15.42**

Chrysene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	6450	1.001	15.46
0E01048-CAL2	50	16614	1.081	15.46
0E01048-CAL3	100	35070	1.053	15.46
0E01048-CAL4	200	73042	1.112	15.46
0E01048-CAL5	500	182412	1.132	15.46
0E01048-CAL6	1000	354860	1.097	15.46
0E01048-CAL7	2000	694601	1.093	15.49
0E01048-CAL8	4000	1316345	1.067	15.50
0E01048-CAL9	6000	1740049	1.045	15.50
0E01048-CALA	8000	2318563	1.000	15.51

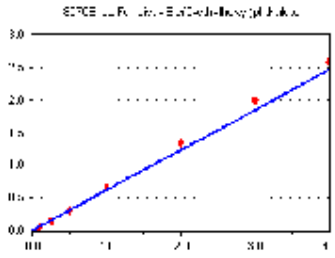
AVE RF **1.068** RF RSD **4.13** AVE RT **15.47**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Bis(2-ethylhexyl)phthalate

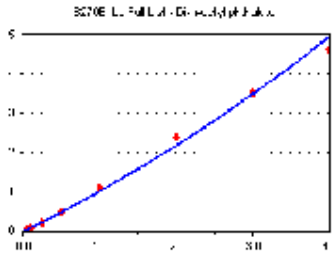


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1621~~	~~0.252~~	~~15.54~~
~~0E01048-CAL2~~	~~50~~	~~3824~~	~~0.249~~	~~15.54~~
~~0E01048-CAL3~~	~~100~~	~~10710~~	~~0.322~~	~~15.54~~
0E01048-CAL4	200	28975	0.441	15.54
0E01048-CAL5	500	94935	0.589	15.54
0E01048-CAL6	1000	203493	0.629	15.54
0E01048-CAL7	2000	423910	0.667	15.56
0E01048-CAL8	4000	831541	0.674	15.56
0E01048-CAL9	6000	1106114	0.664	15.56
0E01048-CALA	8000	1495426	0.645	15.57

AVE RF **0.616** RF RSD **13.36** AVE RT **15.56**

Di-n-octyl phthalate

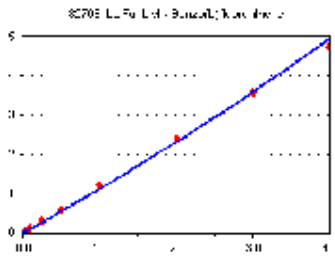


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0E01048-CAL1~~	~~20~~	~~1651~~	~~0.260~~	~~17.22~~
~~0E01048-CAL2~~	~~50~~	~~4377~~	~~0.281~~	~~17.23~~
0E01048-CAL3	100	11376	0.355	17.22
0E01048-CAL4	200	29855	0.470	17.23
0E01048-CAL5	500	120023	0.766	17.22
0E01048-CAL6	1000	298544	0.939	17.22
0E01048-CAL7	2000	680919	1.103	17.25
0E01048-CAL8	4000	1442635	1.184	17.25
0E01048-CAL9	6000	1961816	1.176	17.25
0E01048-CALA	8000	2730088	1.159	17.26

AVE RF **0.894** RF RSD **37.00** AVE RT **17.24**

Benzo(b)fluoranthene

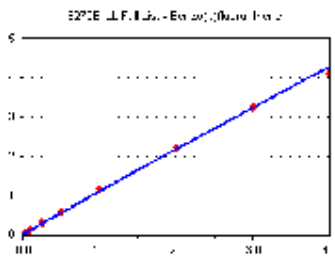


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4506	0.709	18.00
0E01048-CAL2	50	11950	0.766	18.01
0E01048-CAL3	100	28427	0.887	18.00
0E01048-CAL4	200	62932	0.991	18.00
0E01048-CAL5	500	178050	1.137	18.00
0E01048-CAL6	1000	358795	1.129	18.00
0E01048-CAL7	2000	746356	1.209	18.04
0E01048-CAL8	4000	1458700	1.198	18.04
0E01048-CAL9	6000	1988669	1.192	18.05
0E01048-CALA	8000	2786424	1.183	18.06

AVE RF **1.040** RF RSD **18.25** AVE RT **18.02**

Benzo(k)fluoranthene



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4338	0.682	18.07
0E01048-CAL2	50	11834	0.759	18.07
0E01048-CAL3	100	29681	0.926	18.07
0E01048-CAL4	200	65220	1.027	18.07
0E01048-CAL5	500	184628	1.179	18.07
0E01048-CAL6	1000	369147	1.162	18.07
0E01048-CAL7	2000	719032	1.164	18.11
0E01048-CAL8	4000	1354141	1.112	18.11
0E01048-CAL9	6000	1807757	1.083	18.12
0E01048-CALA	8000	2426885	1.030	18.13

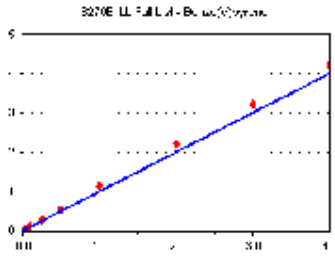
AVE RF **1.012** RF RSD **17.08** AVE RT **18.09**

Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Benzo(e)pyrene

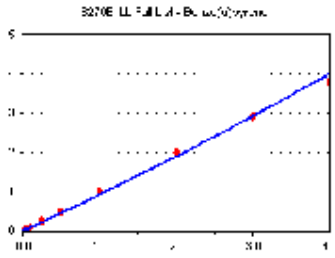


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	4525	0.712	18.66
0E01048-CAL2	50	12046	0.772	18.67
0E01048-CAL3	100	29328	0.915	18.66
0E01048-CAL4	200	64740	1.019	18.66
0E01048-CAL5	500	173884	1.110	18.66
0E01048-CAL6	1000	349256	1.099	18.67
0E01048-CAL7	2000	695034	1.125	18.69
0E01048-CAL8	4000	1356699	1.114	18.71
0E01048-CAL9	6000	1792904	1.074	18.71
0E01048-CALA	8000	2485374	1.055	18.73

AVE RF **1.000** RF RSD **14.97** AVE RT **18.68**

Benzo(a)pyrene

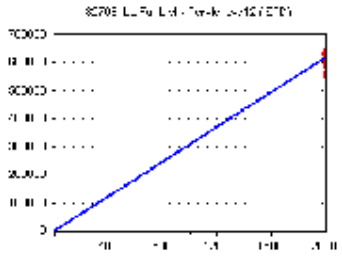


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3486	0.548	18.78
0E01048-CAL2	50	9823	0.630	18.79
0E01048-CAL3	100	22302	0.696	18.78
0E01048-CAL4	200	51841	0.816	18.78
0E01048-CAL5	500	149810	0.956	18.78
0E01048-CAL6	1000	308919	0.972	18.78
0E01048-CAL7	2000	620228	1.004	18.82
0E01048-CAL8	4000	1212487	0.995	18.83
0E01048-CAL9	6000	1628683	0.976	18.83
0E01048-CALA	8000	2233306	0.948	18.85

AVE RF **0.854** RF RSD **19.93** AVE RT **18.80**

Perylene-d12 (ISTD)

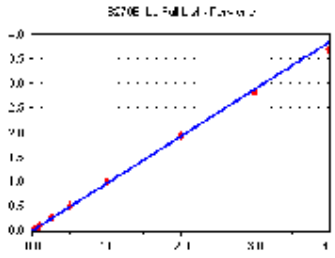


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	635623	317.812	18.93
0E01048-CAL2	2000	623785	311.893	18.93
0E01048-CAL3	2000	641096	320.548	18.93
0E01048-CAL4	2000	635068	317.534	18.93
0E01048-CAL5	2000	626511	313.255	18.93
0E01048-CAL6	2000	635590	317.795	18.93
0E01048-CAL7	2000	617587	308.793	18.96
0E01048-CAL8	2000	609005	304.503	18.96
0E01048-CAL9	2000	556224	278.112	18.96
0E01048-CALA	2000	589023	294.512	18.97

AVE RF **308.476** RF RSD **4.28** AVE RT **18.94**

Perylene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5620	0.884	18.99
0E01048-CAL2	50	14498	0.930	18.99
0E01048-CAL3	100	31802	0.992	18.99
0E01048-CAL4	200	62205	0.980	18.98
0E01048-CAL5	500	160709	1.026	18.99
0E01048-CAL6	1000	315421	0.993	18.99
0E01048-CAL7	2000	616962	0.999	19.02
0E01048-CAL8	4000	1175455	0.965	19.04
0E01048-CAL9	6000	1575409	0.944	19.04
0E01048-CALA	8000	2173662	0.923	19.05

AVE RF **0.963** RF RSD **4.45** AVE RT **19.01**

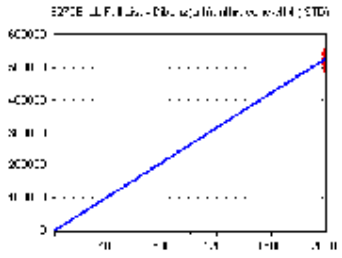
Element Calibration Review Sheet

Calibration ID: **A0E0506** Instrument: **SV-GCMS10** Calibration Date: **05/05/2020**

Analysis: **8270E LL Full List** Instrument Cal ID: **A0E0506**

Dibenz(a,h)anthracene-d14 (ISTD

Curve Fit: **AVERAGE RF**

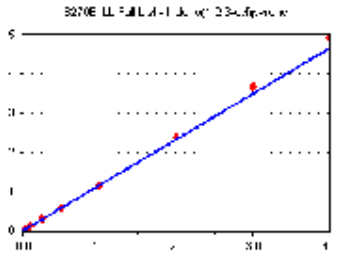


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	2000	508993	254.497	21.34
0E01048-CAL2	2000	506876	253.438	21.34
0E01048-CAL3	2000	525064	262.532	21.33
0E01048-CAL4	2000	528573	264.287	21.33
0E01048-CAL5	2000	518018	259.009	21.33
0E01048-CAL6	2000	543591	271.795	21.34
0E01048-CAL7	2000	539634	269.817	21.36
0E01048-CAL8	2000	544489	272.245	21.37
0E01048-CAL9	2000	497217	248.608	21.38
0E01048-CALA	2000	540731	270.365	21.38

AVE RF **262.659** RF RSD **3.24** AVE RT **21.35**

Indeno(1,2,3-cd)pyrene

Curve Fit: **AVERAGE RF**

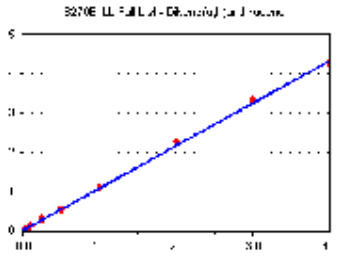


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5874	1.154	21.33
0E01048-CAL2	50	14434	1.139	21.34
0E01048-CAL3	100	29561	1.126	21.33
0E01048-CAL4	200	58782	1.112	21.32
0E01048-CAL5	500	152136	1.175	21.33
0E01048-CAL6	1000	307747	1.132	21.33
0E01048-CAL7	2000	624900	1.158	21.37
0E01048-CAL8	4000	1288601	1.183	21.39
0E01048-CAL9	6000	1822387	1.222	21.39
0E01048-CALA	8000	2652583	1.226	21.41

AVE RF **1.163** RF RSD **3.34** AVE RT **21.35**

Dibenz(a,h)anthracene

Curve Fit: **AVERAGE RF**

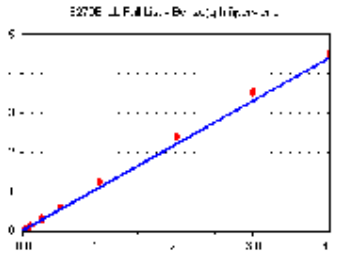


Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	5072	0.996	21.40
0E01048-CAL2	50	12714	1.003	21.41
0E01048-CAL3	100	27359	1.042	21.39
0E01048-CAL4	200	57576	1.089	21.39
0E01048-CAL5	500	148631	1.148	21.39
0E01048-CAL6	1000	300075	1.104	21.40
0E01048-CAL7	2000	601594	1.115	21.43
0E01048-CAL8	4000	1233028	1.132	21.45
0E01048-CAL9	6000	1647572	1.105	21.45
0E01048-CALA	8000	2315467	1.071	21.46

AVE RF **1.081** RF RSD **4.80** AVE RT **21.42**

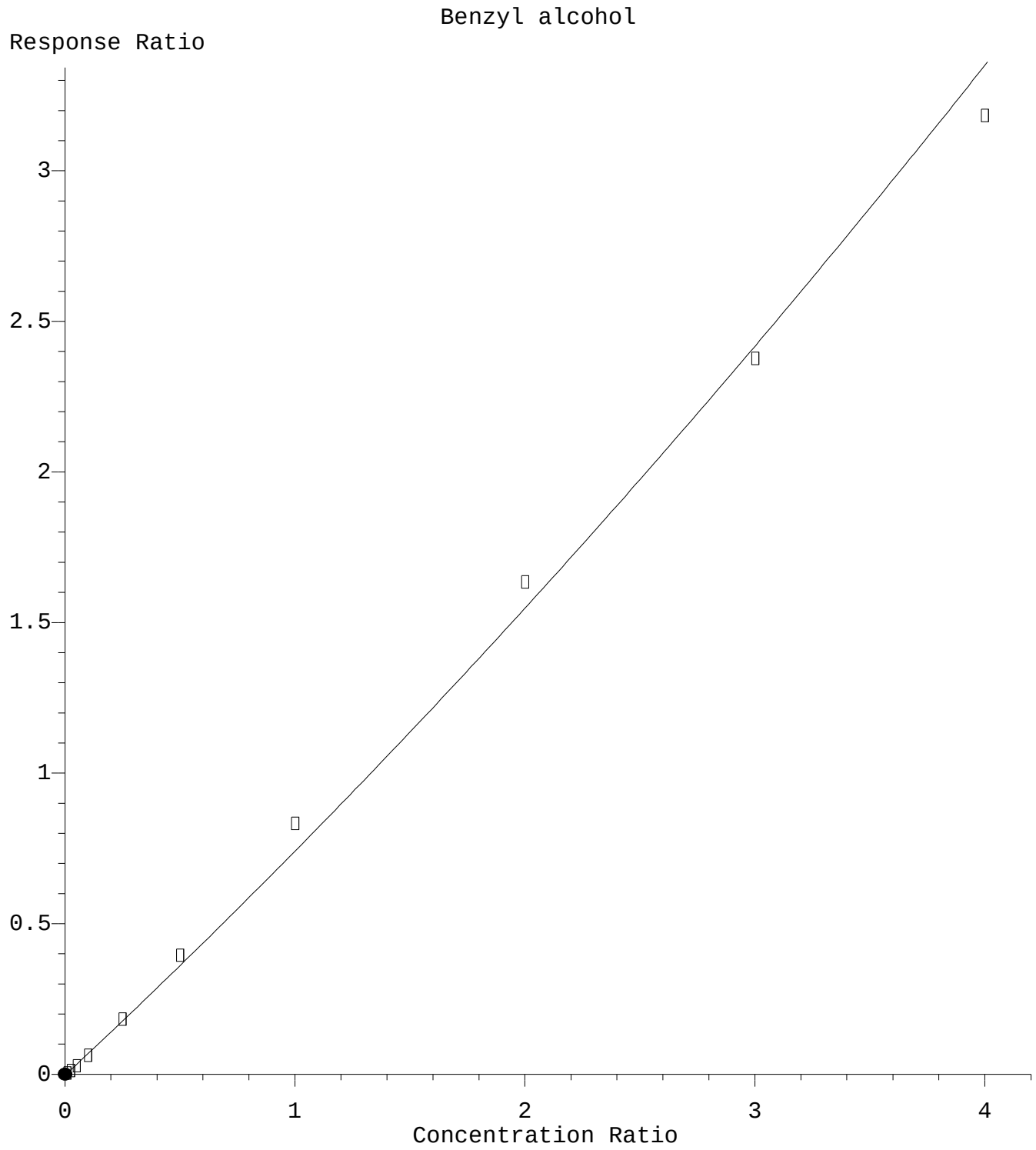
Benzo(g,h,i)perylene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01048-CAL1	20	3952	0.776	21.88
0E01048-CAL2	50	11357	0.896	21.88
0E01048-CAL3	100	27334	1.041	21.87
0E01048-CAL4	200	58466	1.106	21.87
0E01048-CAL5	500	158826	1.226	21.87
0E01048-CAL6	1000	328120	1.207	21.88
0E01048-CAL7	2000	669317	1.240	21.91
0E01048-CAL8	4000	1315312	1.208	21.93
0E01048-CAL9	6000	1758939	1.179	21.94
0E01048-CALA	8000	2433679	1.125	21.96

AVE RF **1.101** RF RSD **14.06** AVE RT **21.90**

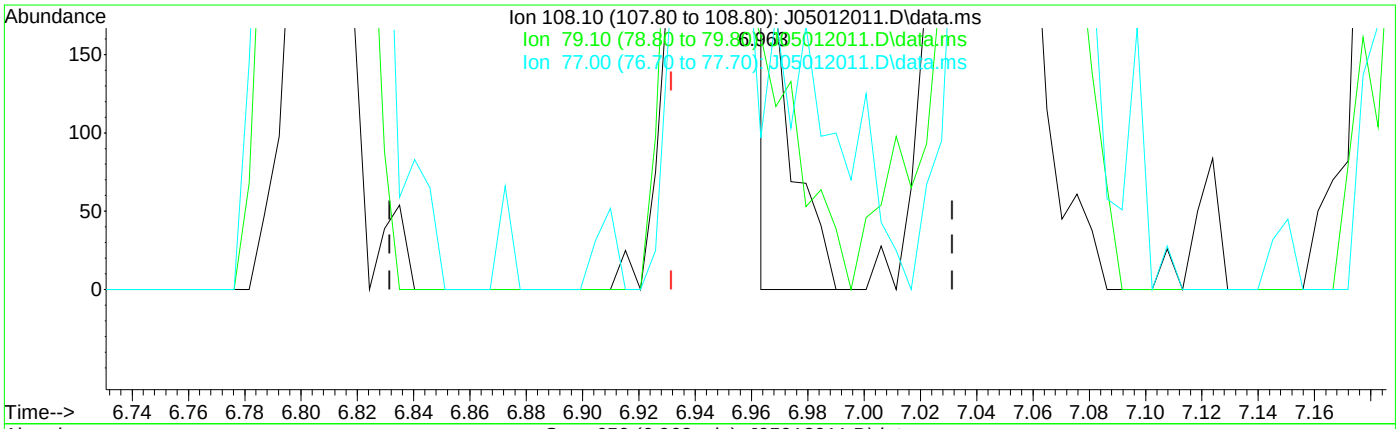


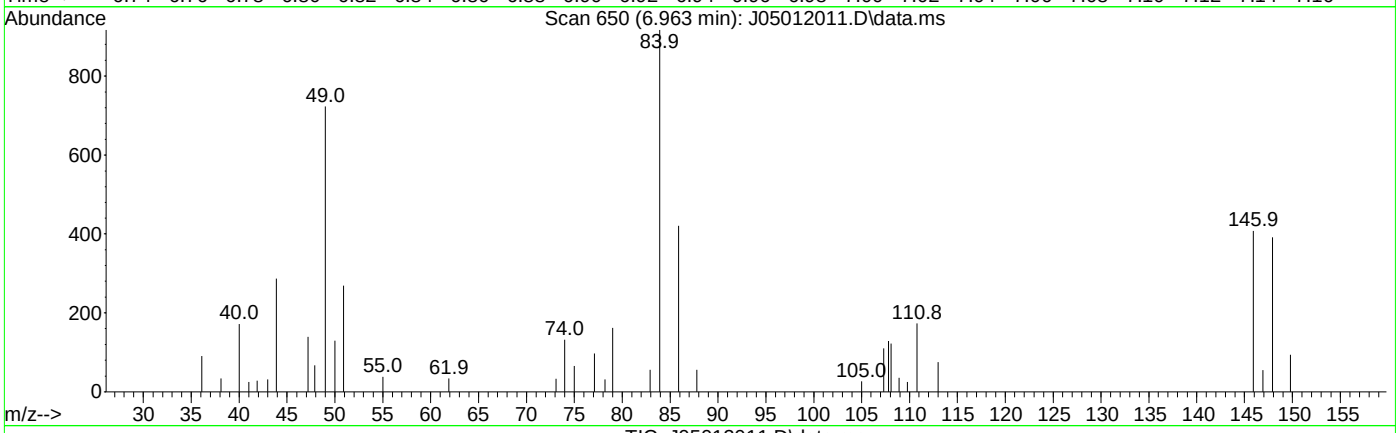
R = 3.15e-002 A*A + 7.12e-001 A - 3.07e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





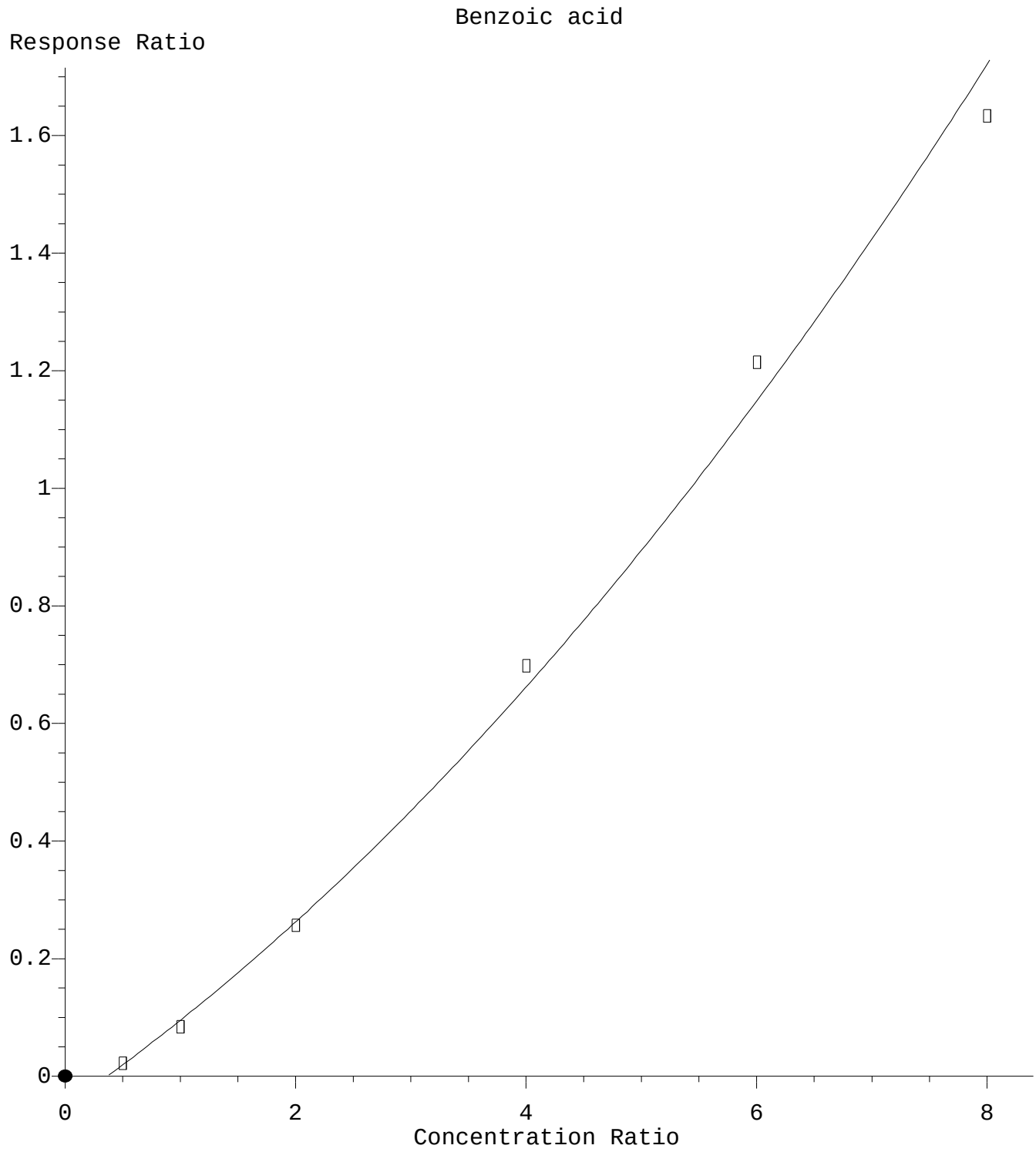
TIC: J05012011.D\data.ms

(12) Benzyl alcohol (T)

6.963min (+ 0.032) 10.31 ng/ml m

response 116

Ion	Exp%	Act%
108.10	100.00	100.00
79.10	104.80	125.58
77.00	64.10	75.19
0.00	0.00	0.00



R = 1.08e-002 A*A + 1.35e-001 A - 5.07e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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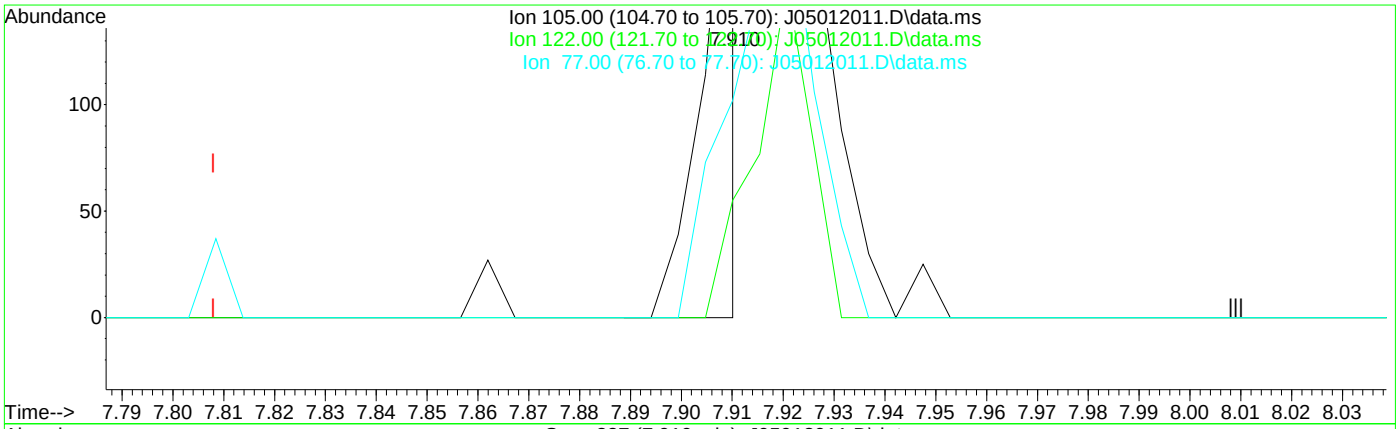
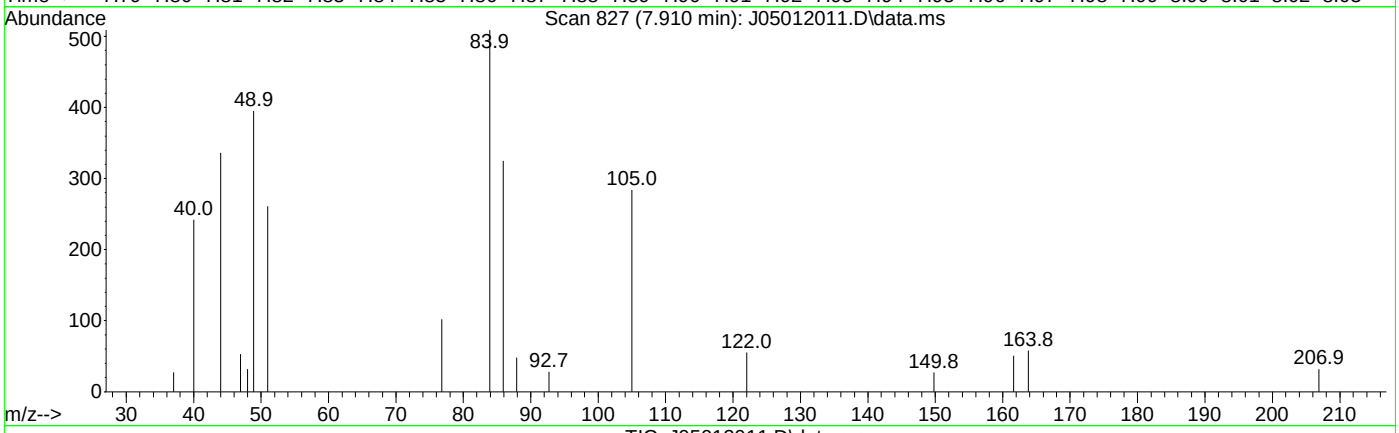
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





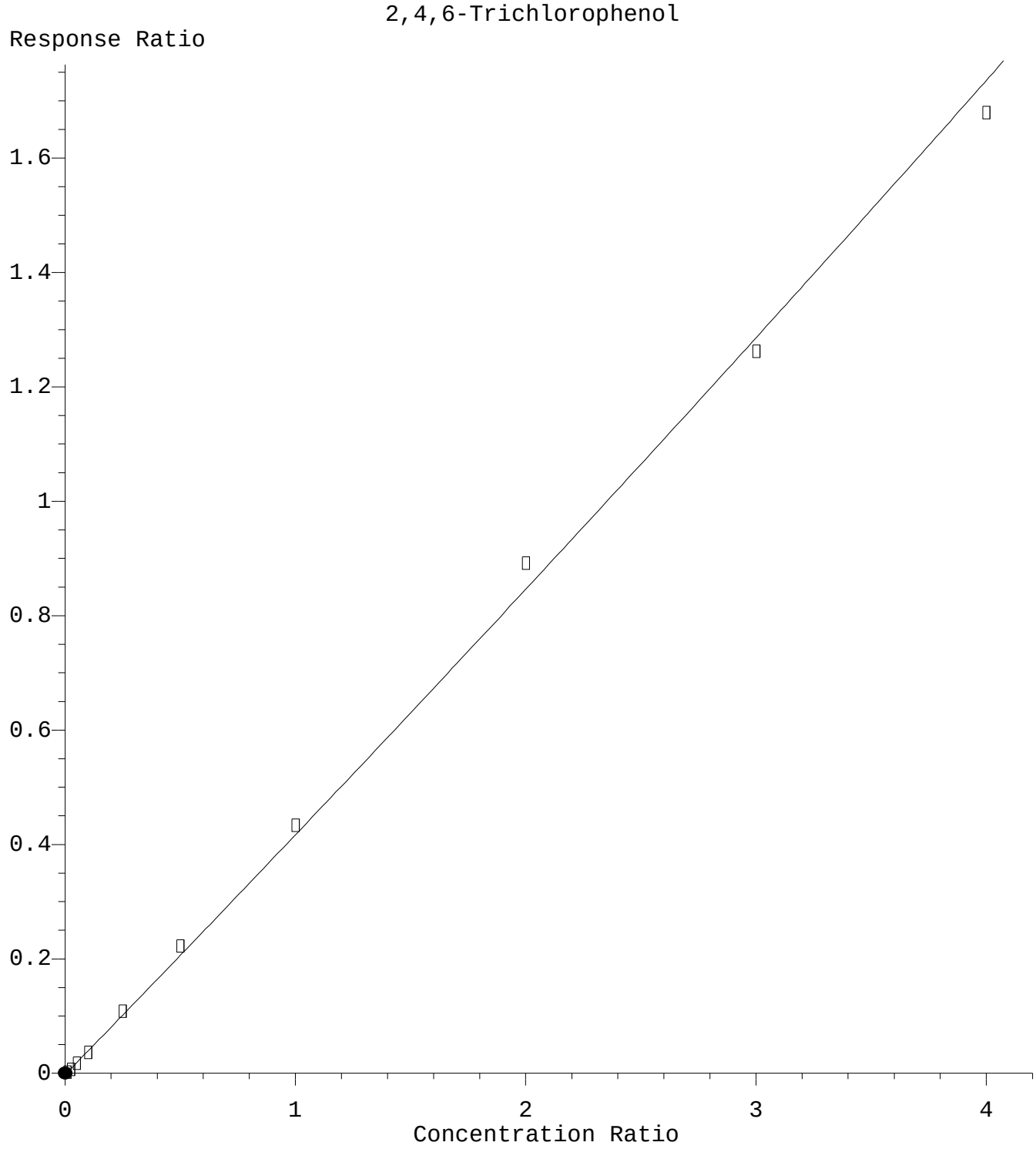
TIC: J05012011.D\data.ms

(26) Benzoic acid (T)

7.910min (+ 0.102) 732.38 ng/ml m

response 140

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	19.37#
77.00	61.50	35.92
0.00	0.00	0.00



R = 5.17e-003 A*A + 4.14e-001 A - 2.30e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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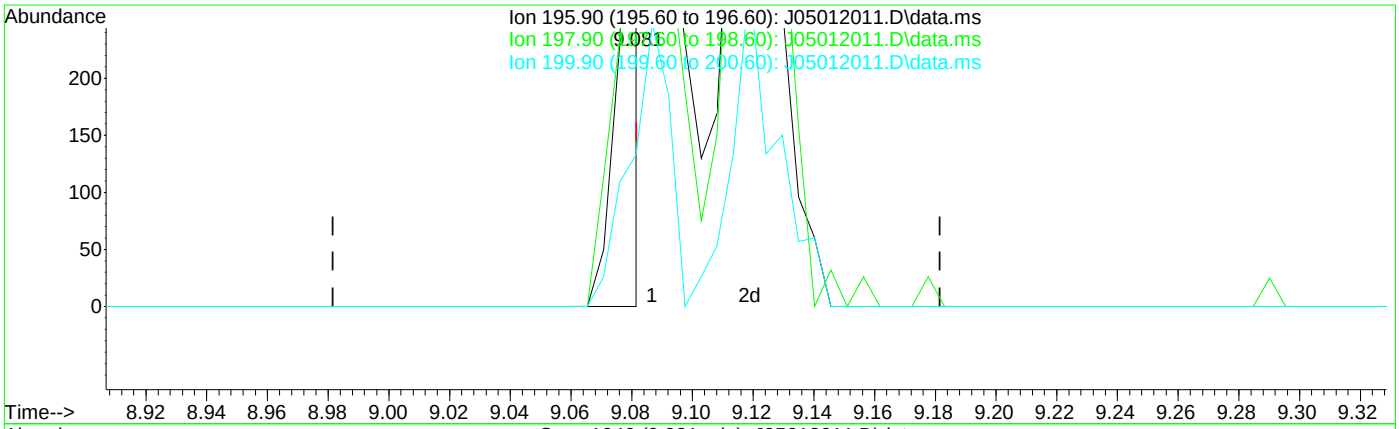
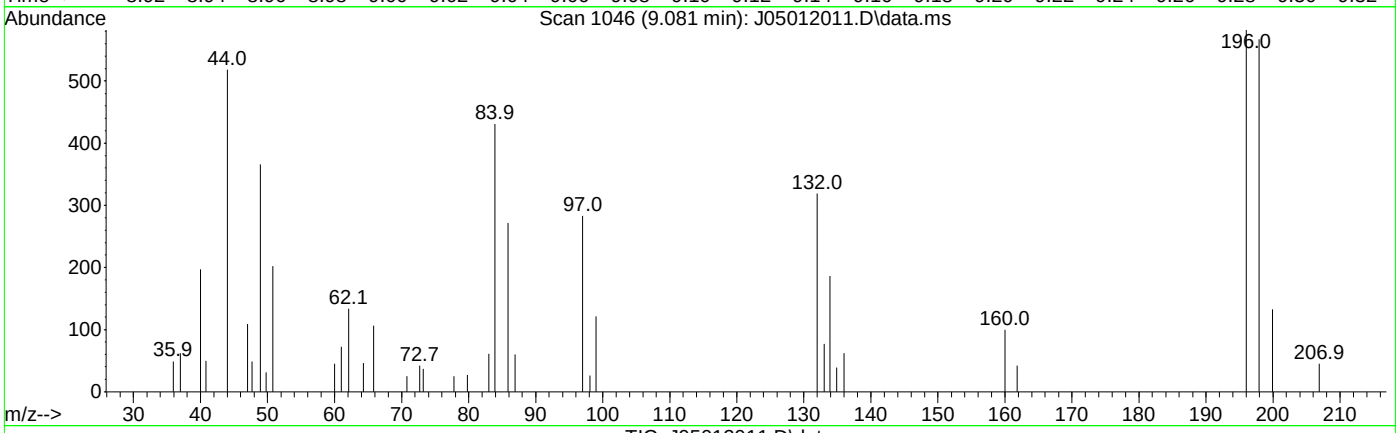
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





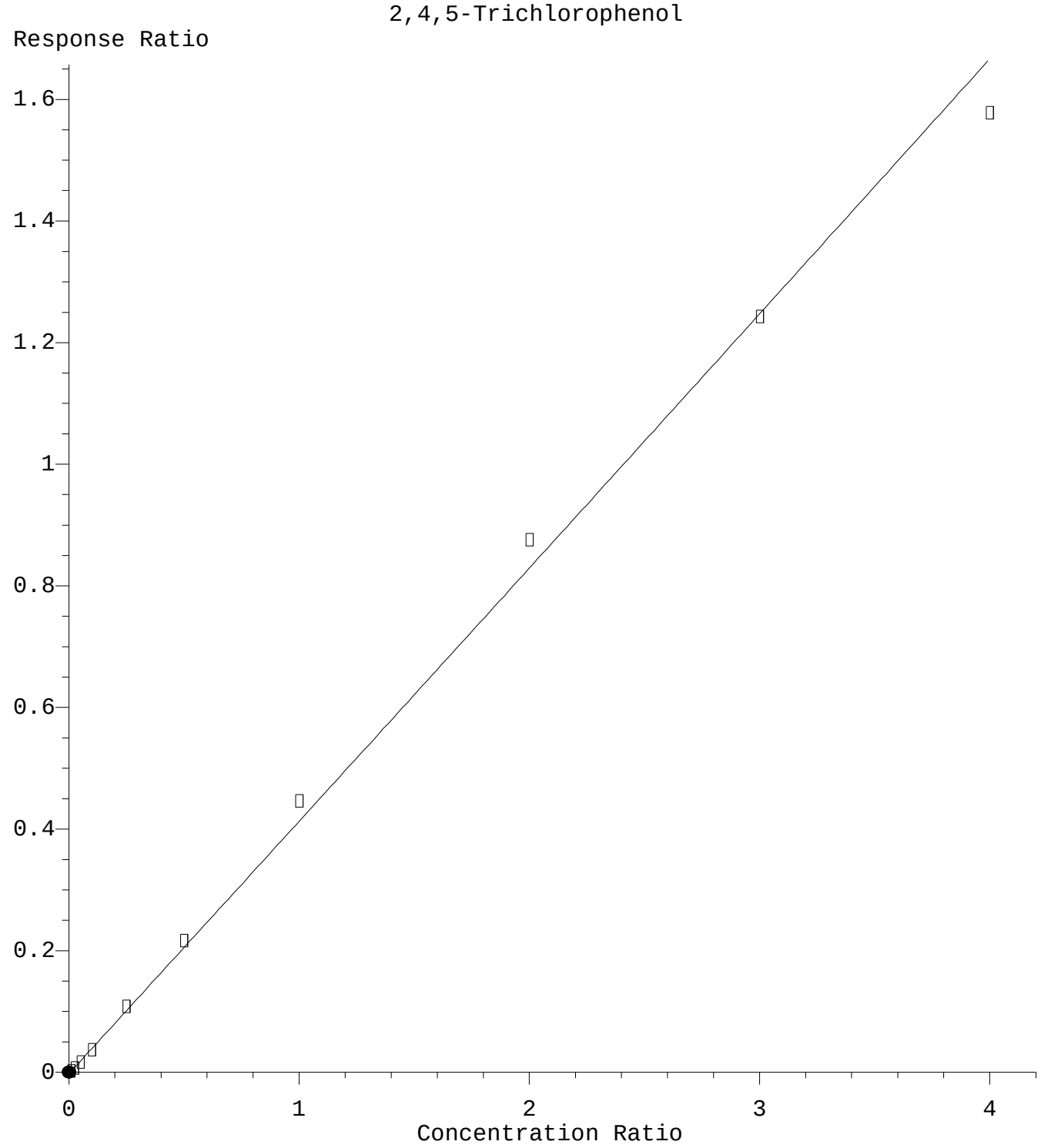
TIC: J05012011.D\data.ms

(37) 2,4,6-Trichlorophenol (T)

9.081min (-0.000) 14.85 ng/ml m

response 277

Ion	Exp%	Act%
195.90	100.00	100.00
197.90	93.90	97.42
199.90	30.10	22.85
0.00	0.00	0.00



R = 7.51e-004 A*A + 4.14e-001 A - 2.16e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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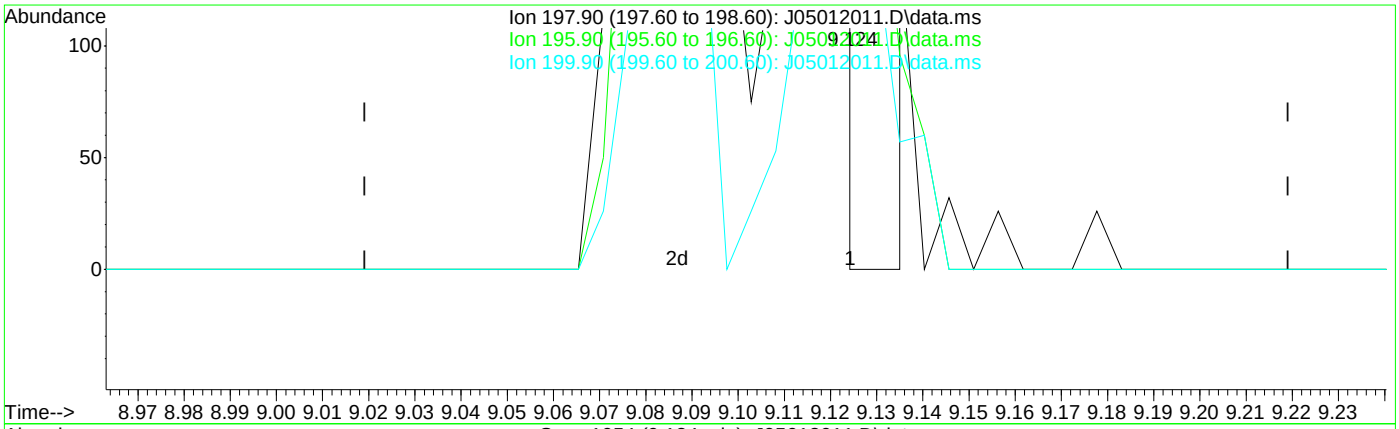
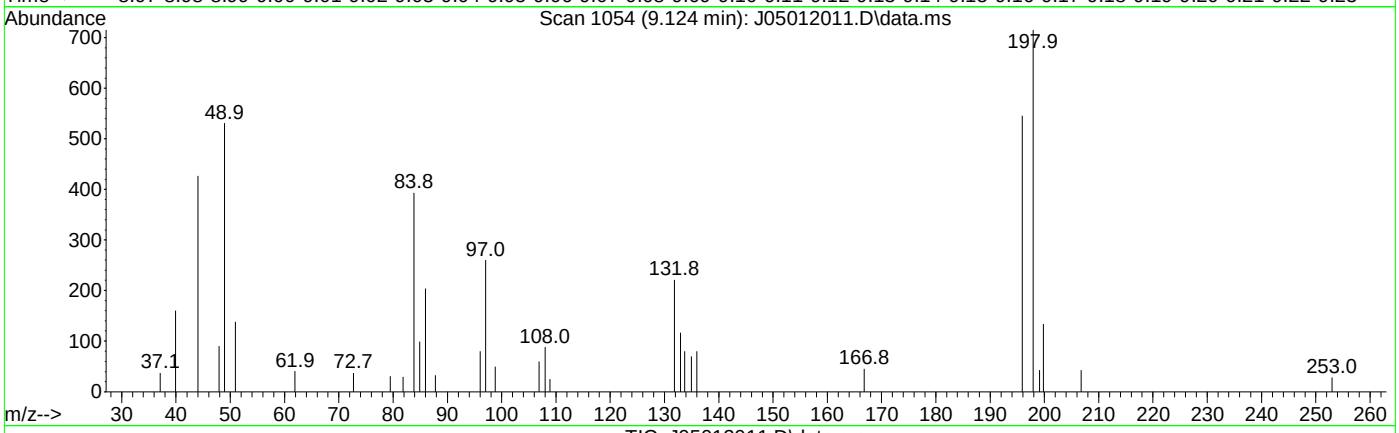
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





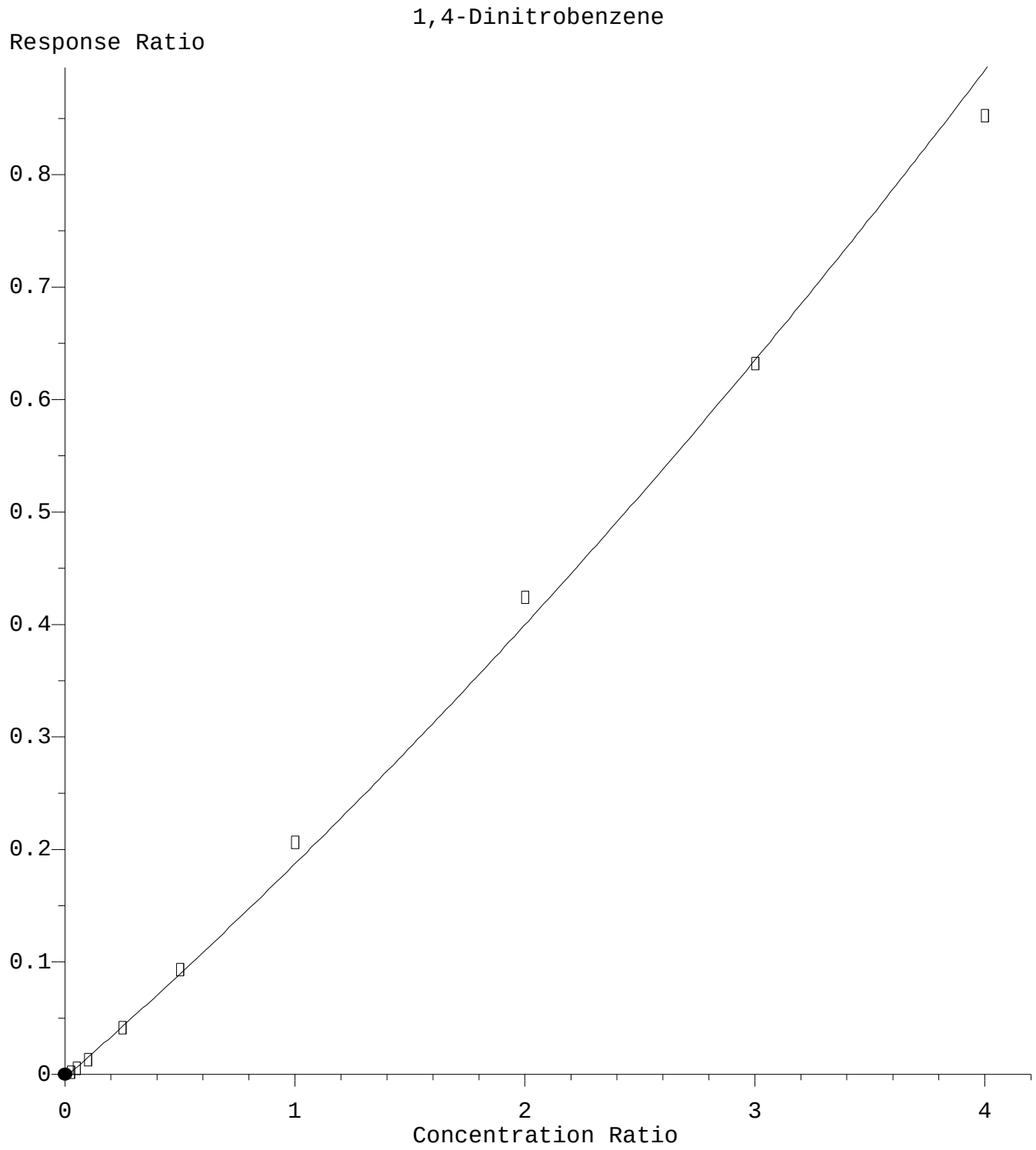
TIC: J05012011.D\data.ms

(38) 2,4,5-Trichlorophenol (T)

9.124min (+ 0.005) 12.66 ng/ml m

response 166

Ion	Exp%	Act%
197.90	100.00	100.00
195.90	100.90	76.36
199.90	30.20	18.74
0.00	0.00	0.00



R = 1.13e-002 A*A + 1.79e-001 A - 2.84e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

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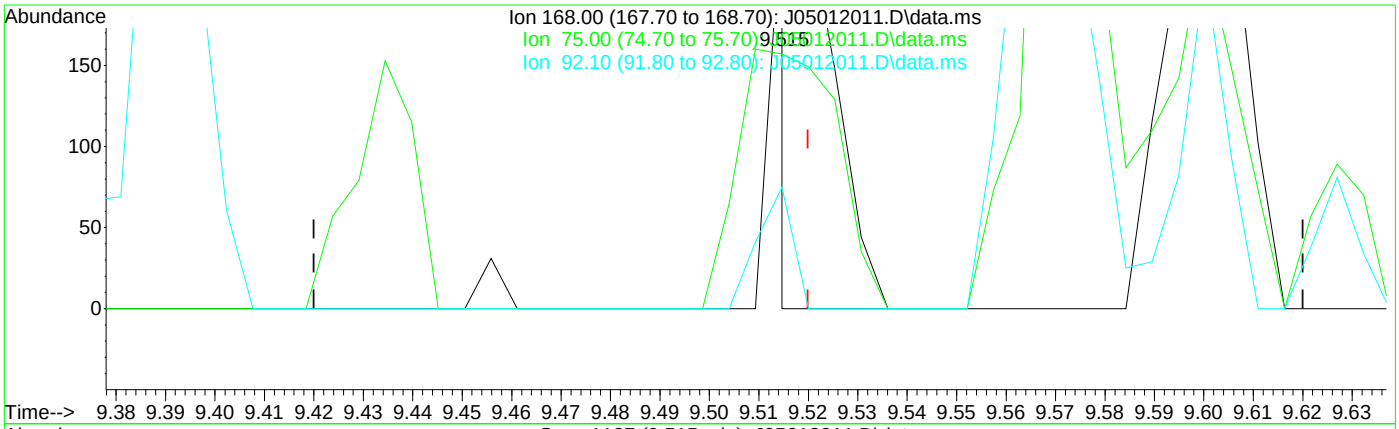
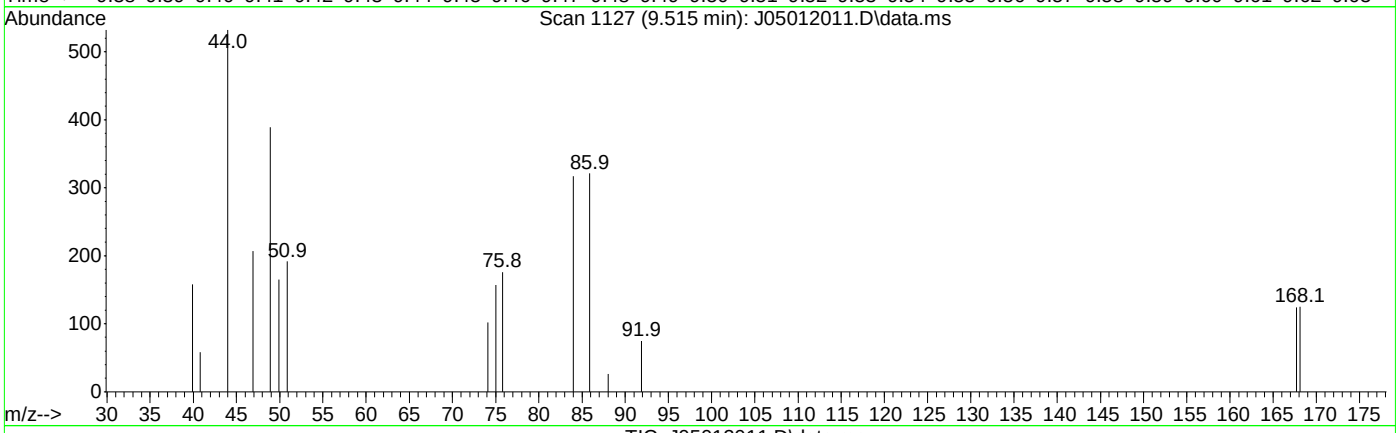
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





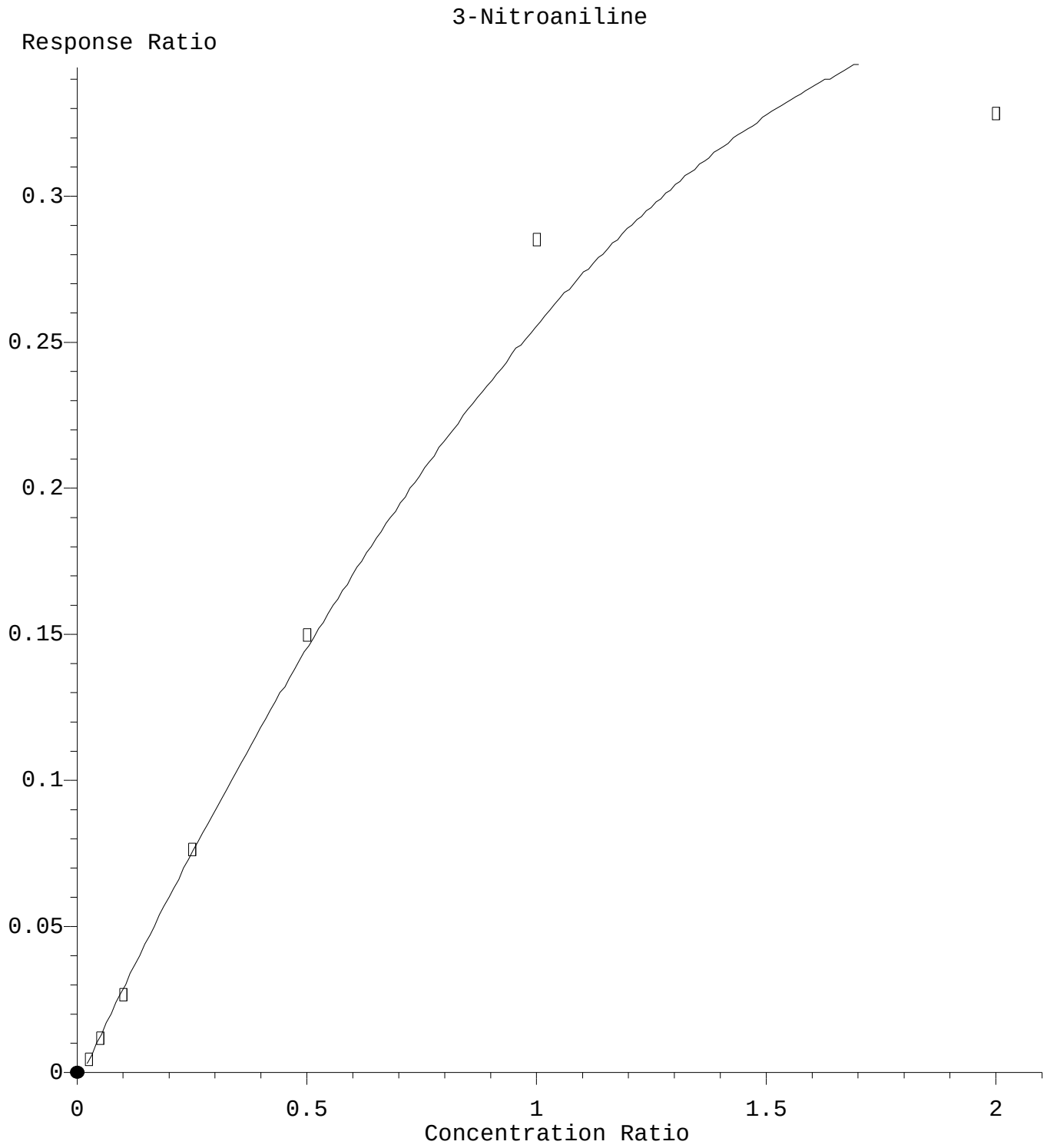
TIC: J05012011.D\data.ms

(44) 1,4-Dinitrobenzene (T)

9.515min (-0.005) 36.17 ng/ml m

response 141

Ion	Exp%	Act%
168.00	100.00	100.00
75.00	92.20	125.60#
92.10	31.30	60.00
0.00	0.00	0.00

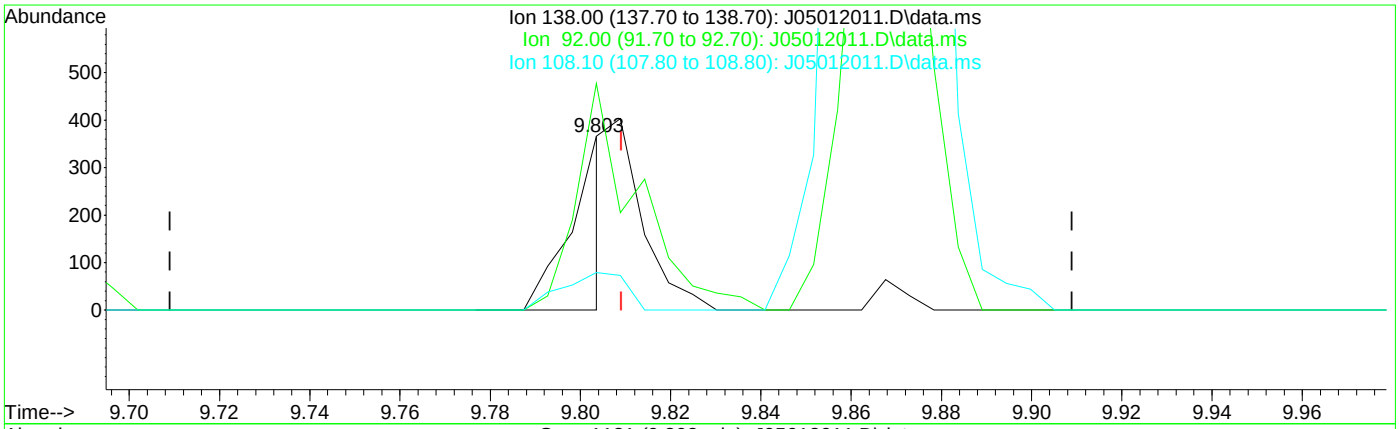


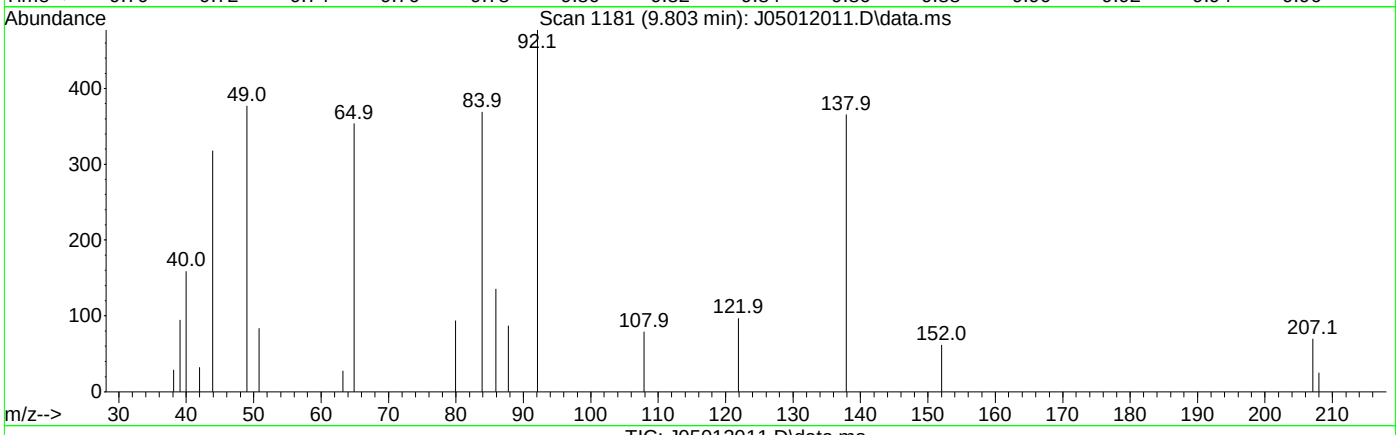
R = -7.77e-002 A*A + 3.38e-001 A - 4.19e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





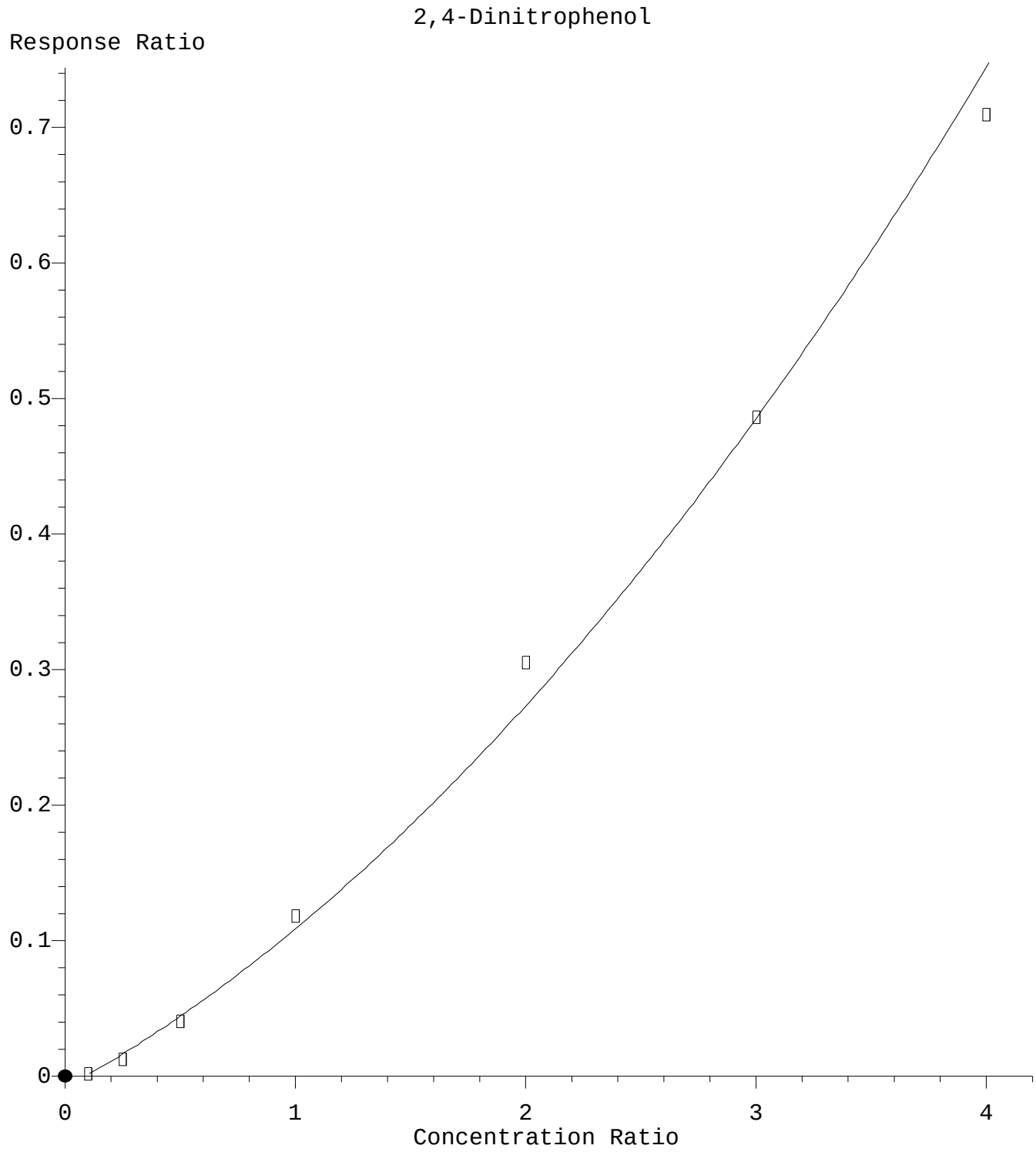
TIC: J05012011.D\data.ms

(50) 3-Nitroaniline (T)

9.803min (-0.005) 28.20 ng/ml m

response 200

Ion	Exp%	Act%
138.00	100.00	100.00
92.00	90.10	130.33#
108.10	9.10	21.58
0.00	0.00	0.00

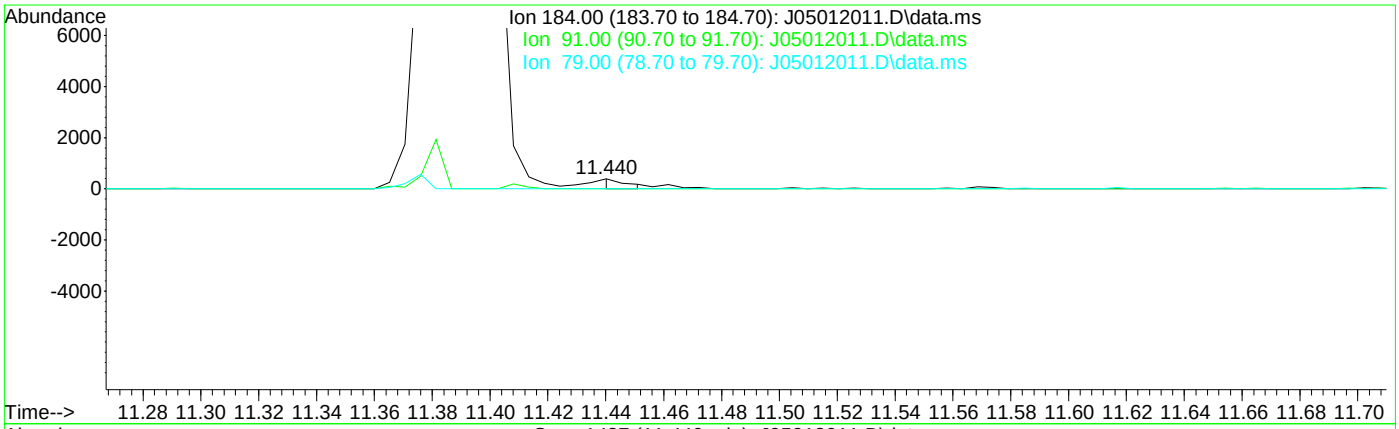


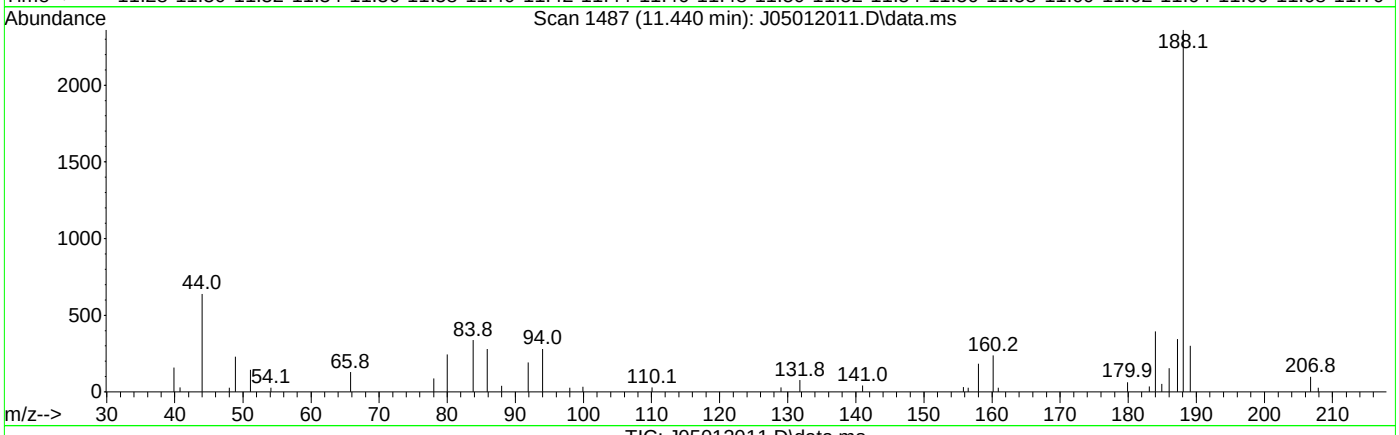
R = 2.37e-002 A*A + 9.36e-002 A - 8.52e-003
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





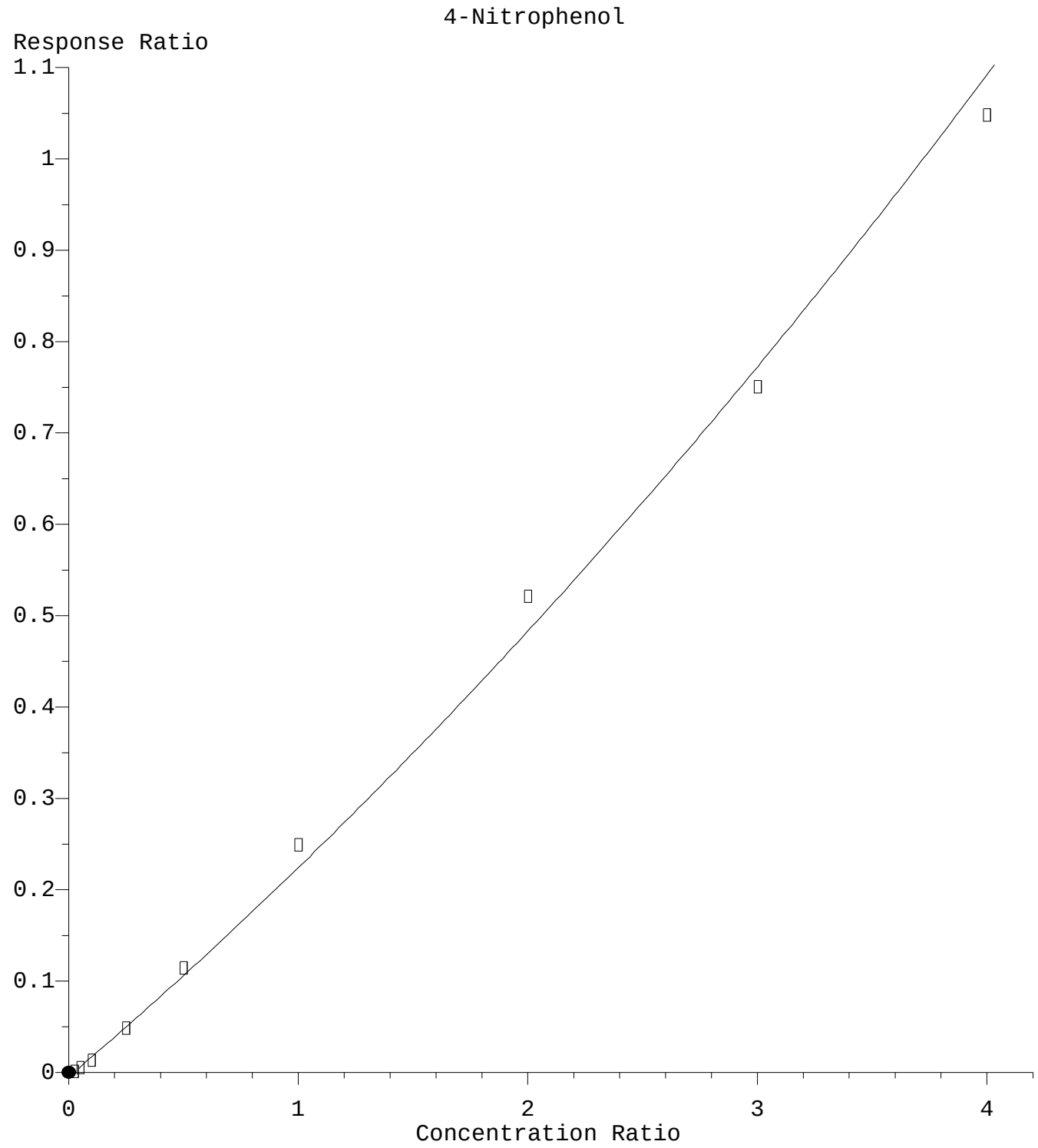
TIC: J05012011.D\data.ms

(52) 2,4-Dinitrophenol (T)

11.440min (+ 1.530) 185.26 ng/ml m

response 126

Ion	Exp%	Act%
184.00	100.00	100.00
91.00	32.60	0.00#
79.00	20.40	0.00
0.00	0.00	0.00

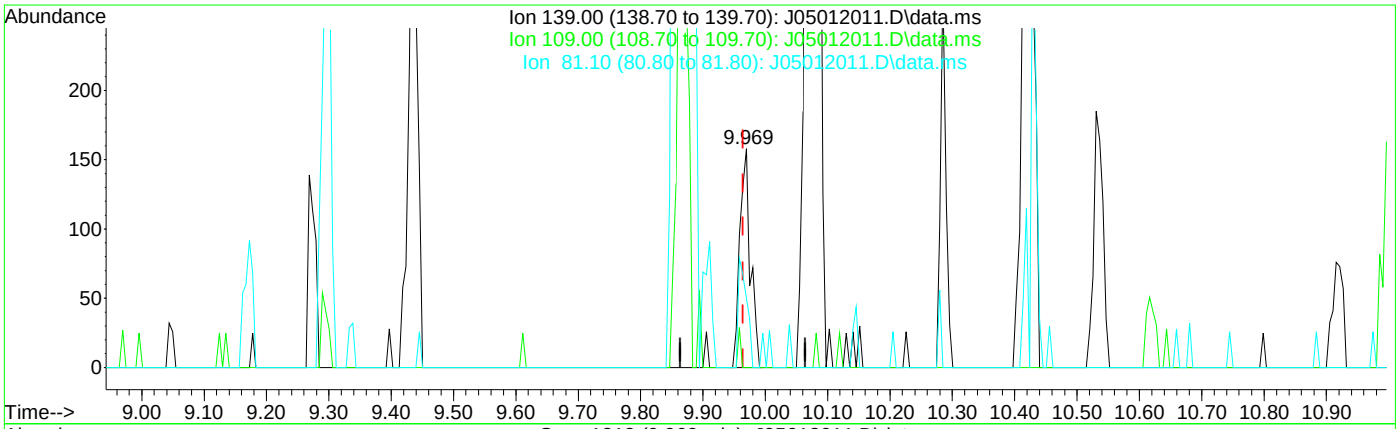


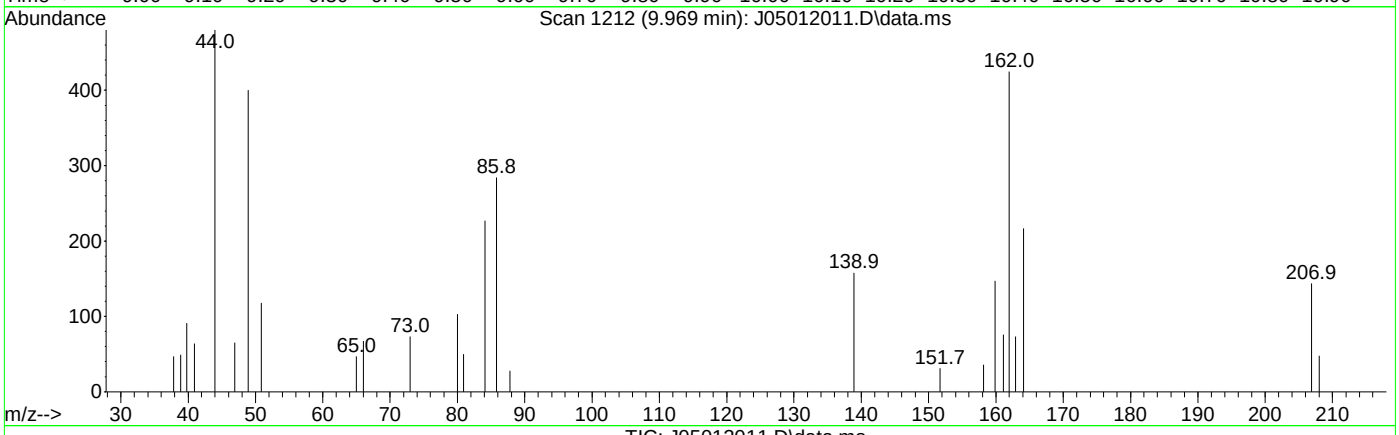
R = 1.51e-002 A*A + 2.14e-001 A - 4.52e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





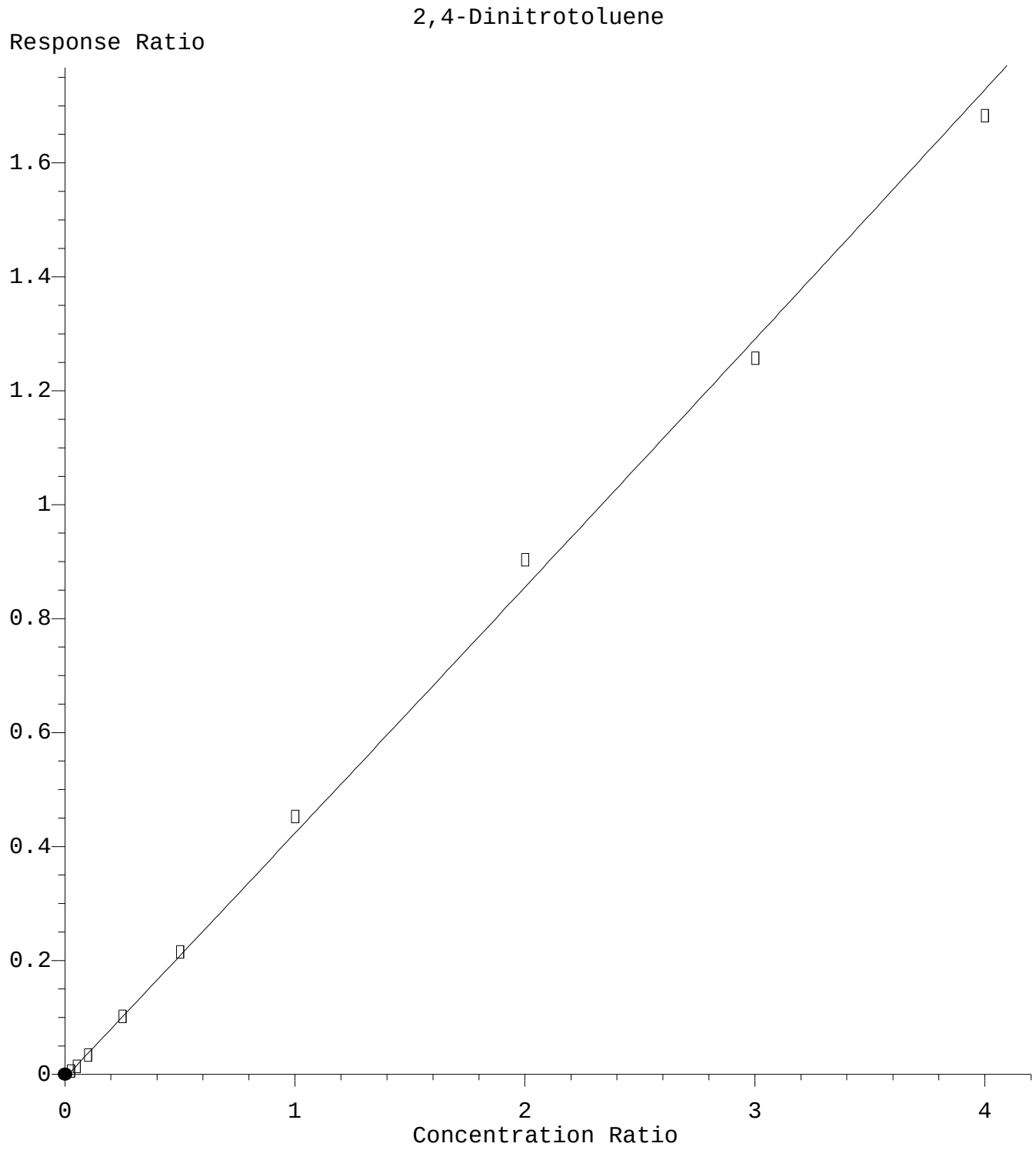
TIC: J05012011.D\data.ms

(53) 4-Nitrophenol (T)

9.969min (+ 0.005) 47.00 ng/ml

response 183

Ion	Exp%	Act%
139.00	100.00	100.00
109.00	49.30	0.00#
81.10	20.60	31.65
0.00	0.00	0.00

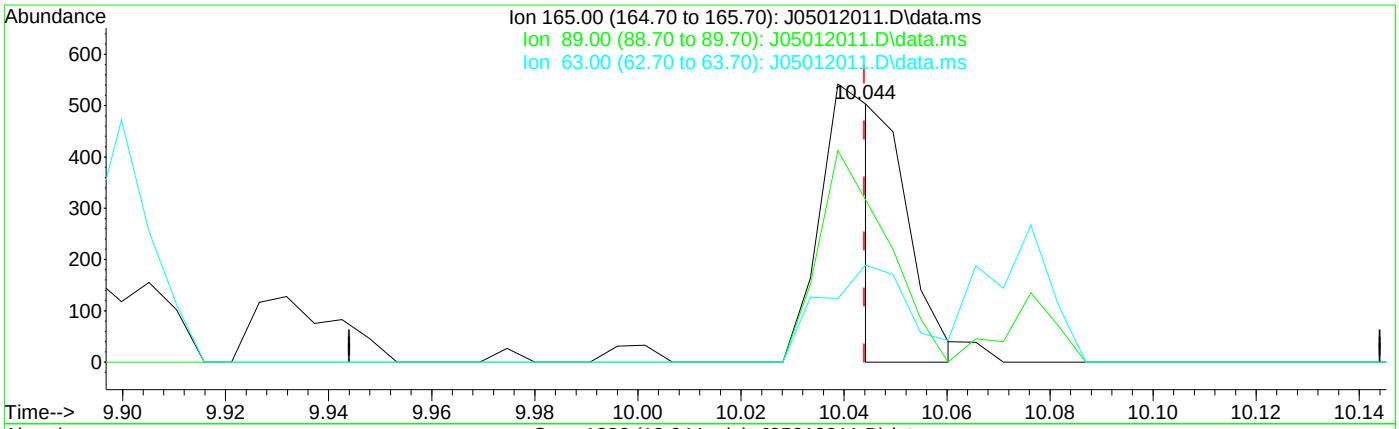


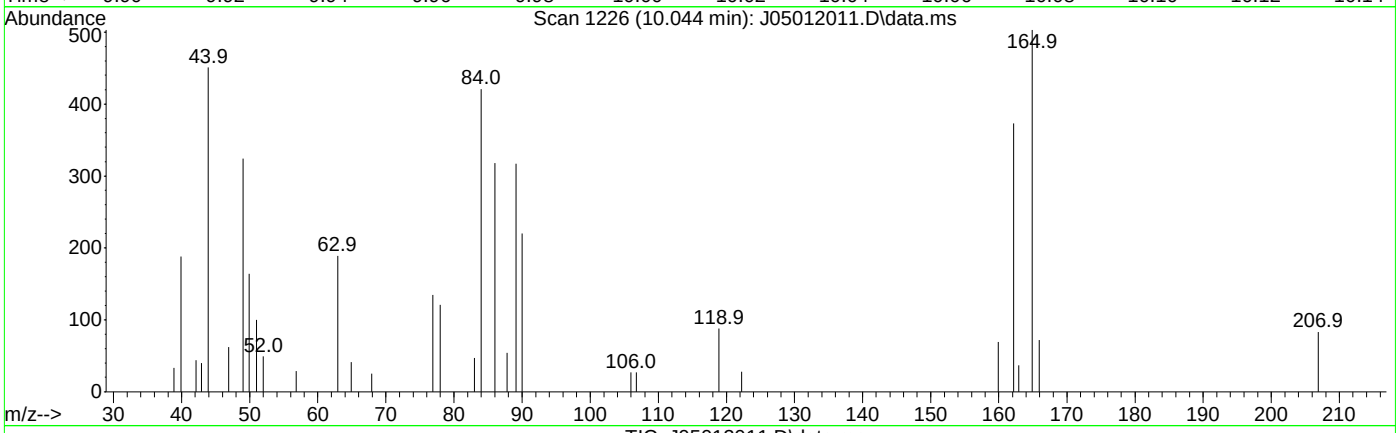
R = 1.59e-003 A*A + 4.27e-001 A - 5.62e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





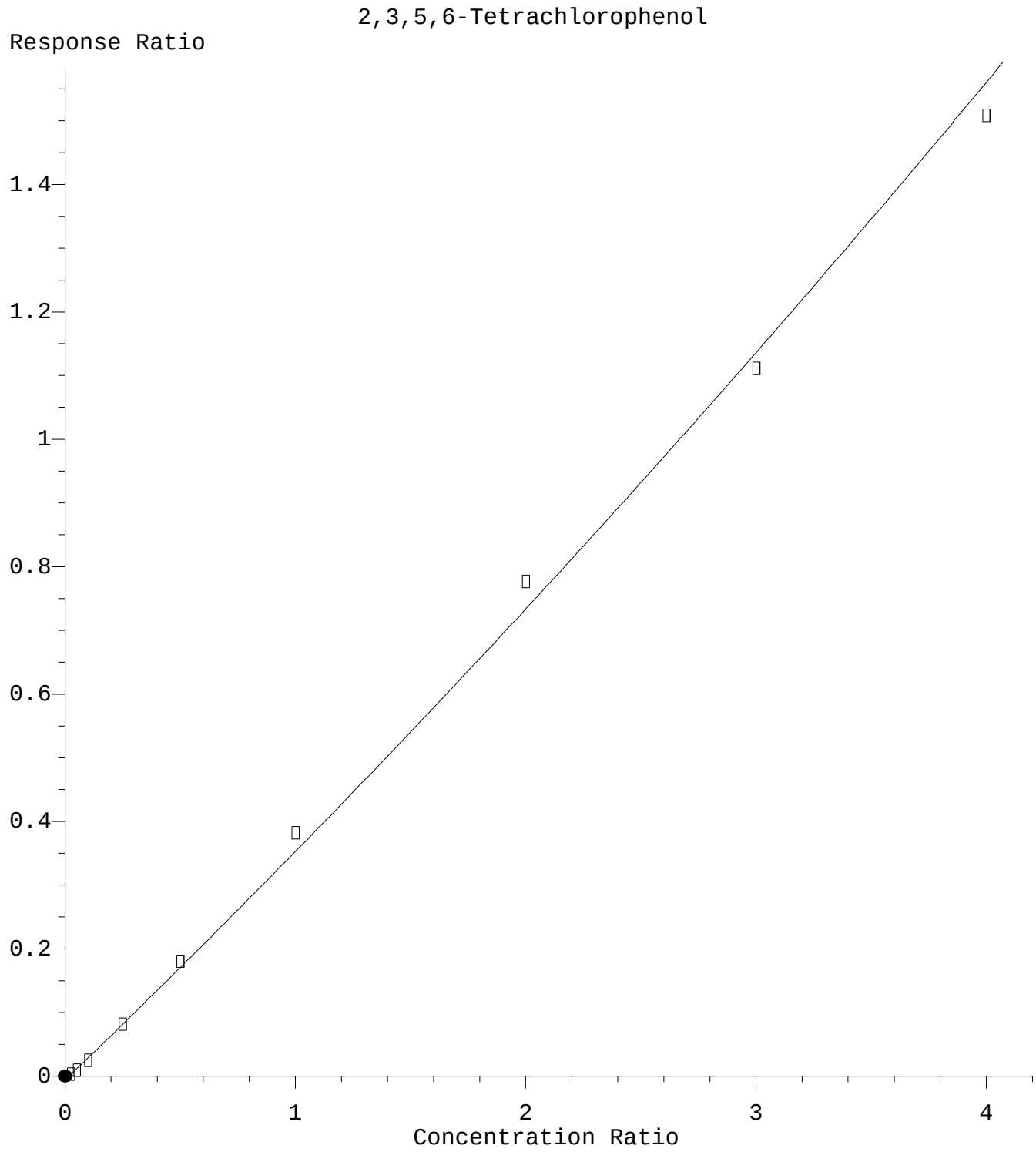
TIC: J05012011.D\data.ms

(54) 2,4-Dinitrotoluene (T)

10.044min (+ 0.000) 28.97 ng/ml m

response 202

Ion	Exp%	Act%
165.00	100.00	100.00
89.00	54.90	63.02
63.00	24.10	37.57
0.00	0.00	0.00

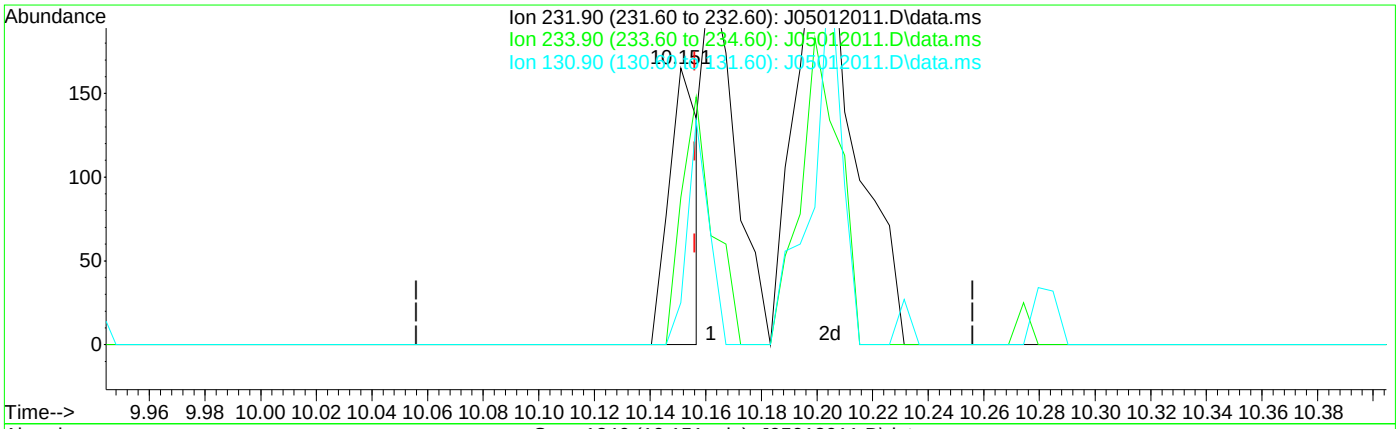


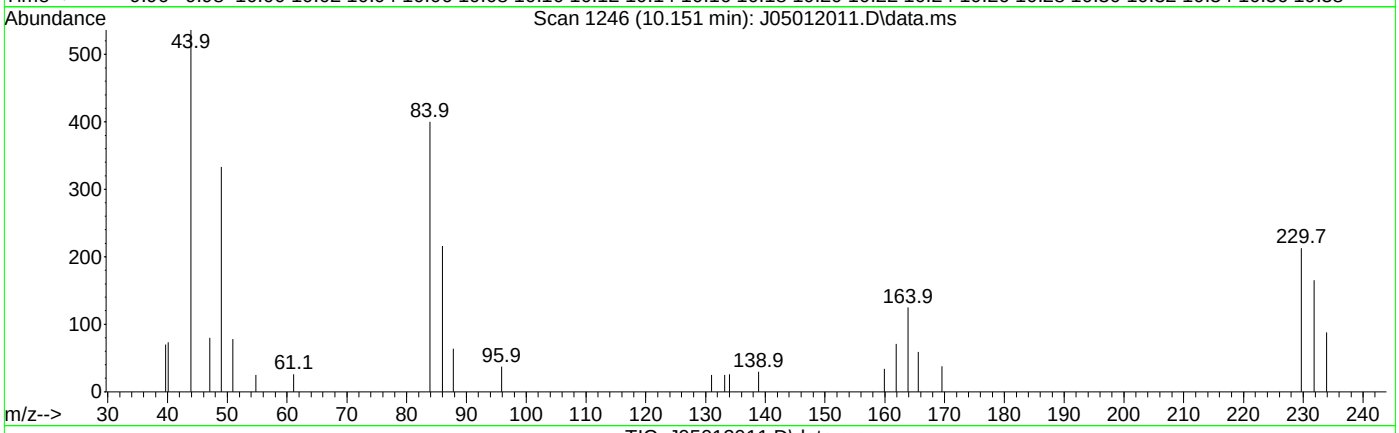
R = 1.09e-002 A*A + 3.48e-001 A - 6.14e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





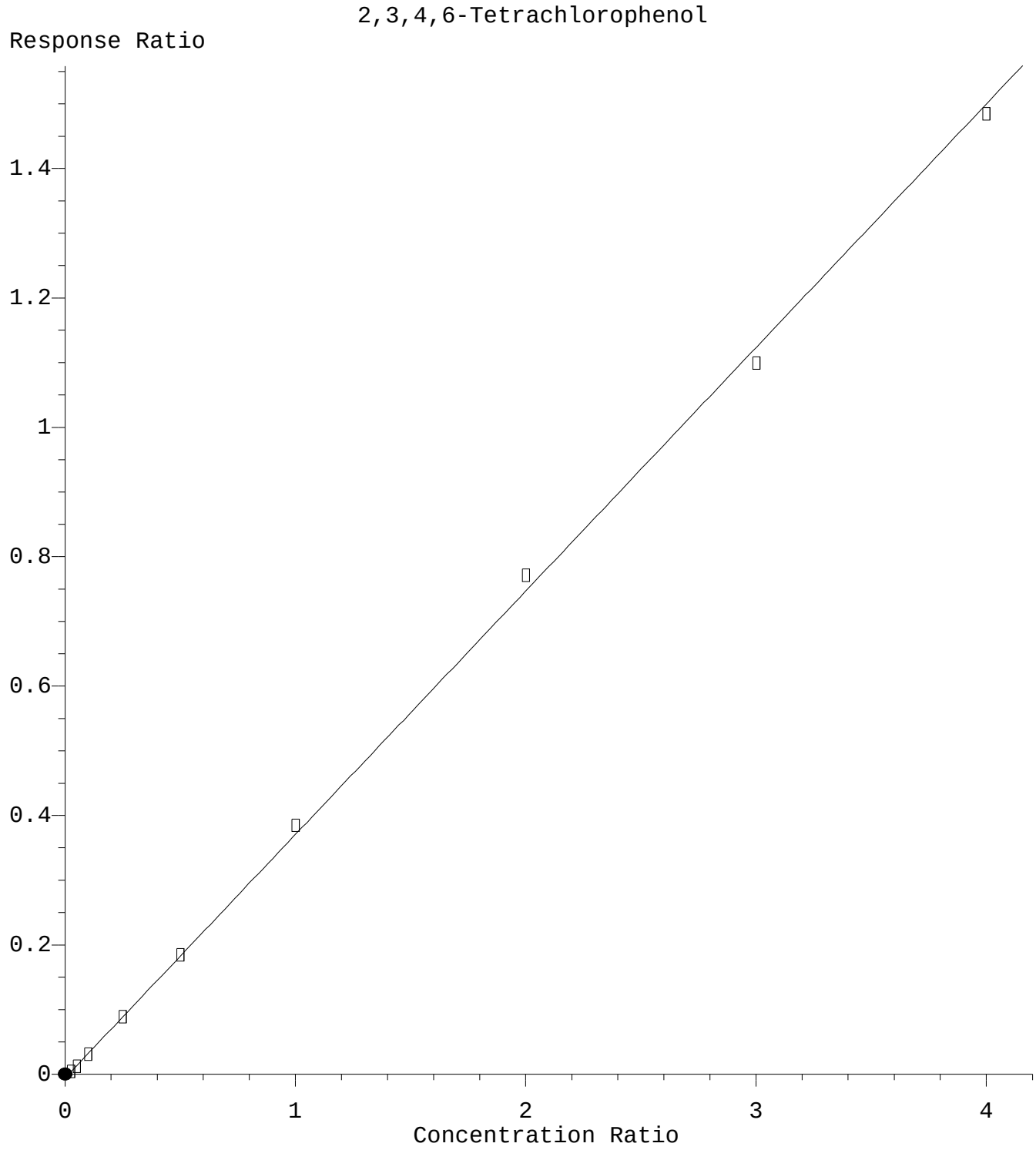
TIC: J05012011.D\data.ms

(56) 2,3,5,6-Tetrachlorophenol (T)

10.151min (-0.005) 37.19 ng/ml m

response 121

Ion	Exp%	Act%
231.90	100.00	100.00
233.90	48.50	53.33
130.90	34.40	15.15
0.00	0.00	0.00

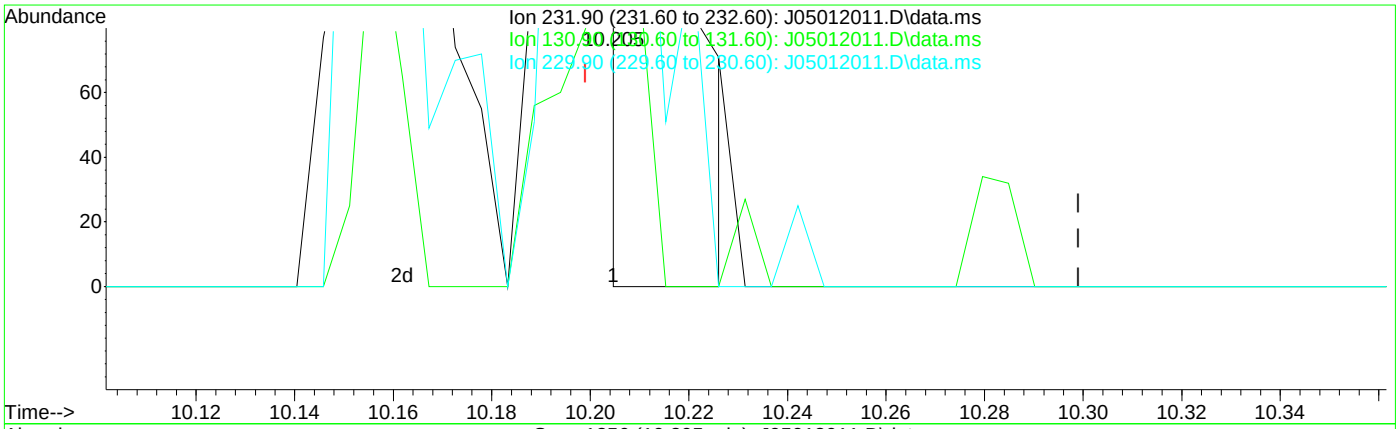


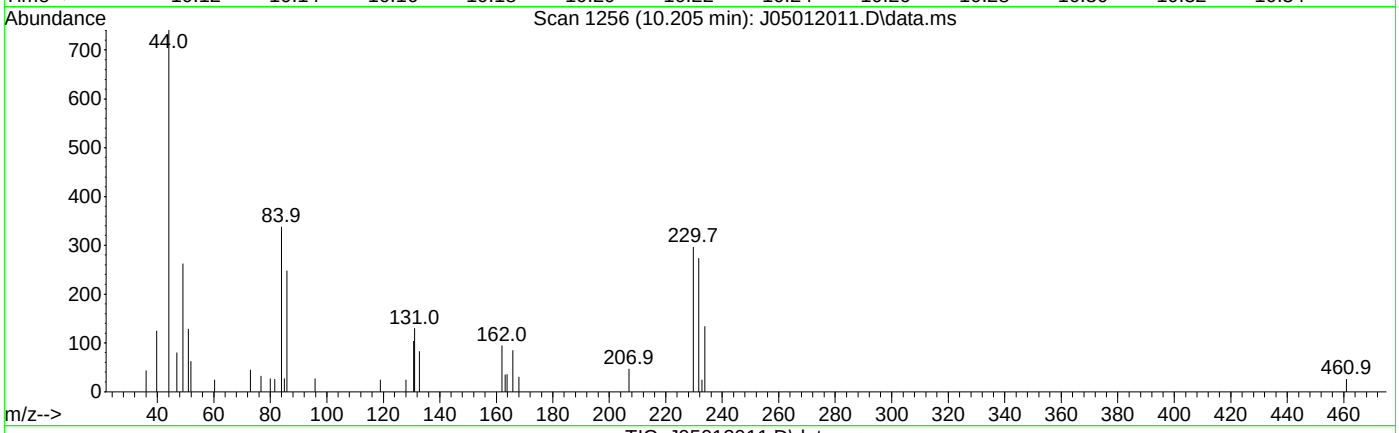
R = 7.16e-005 A*A + 3.76e-001 A - 5.49e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





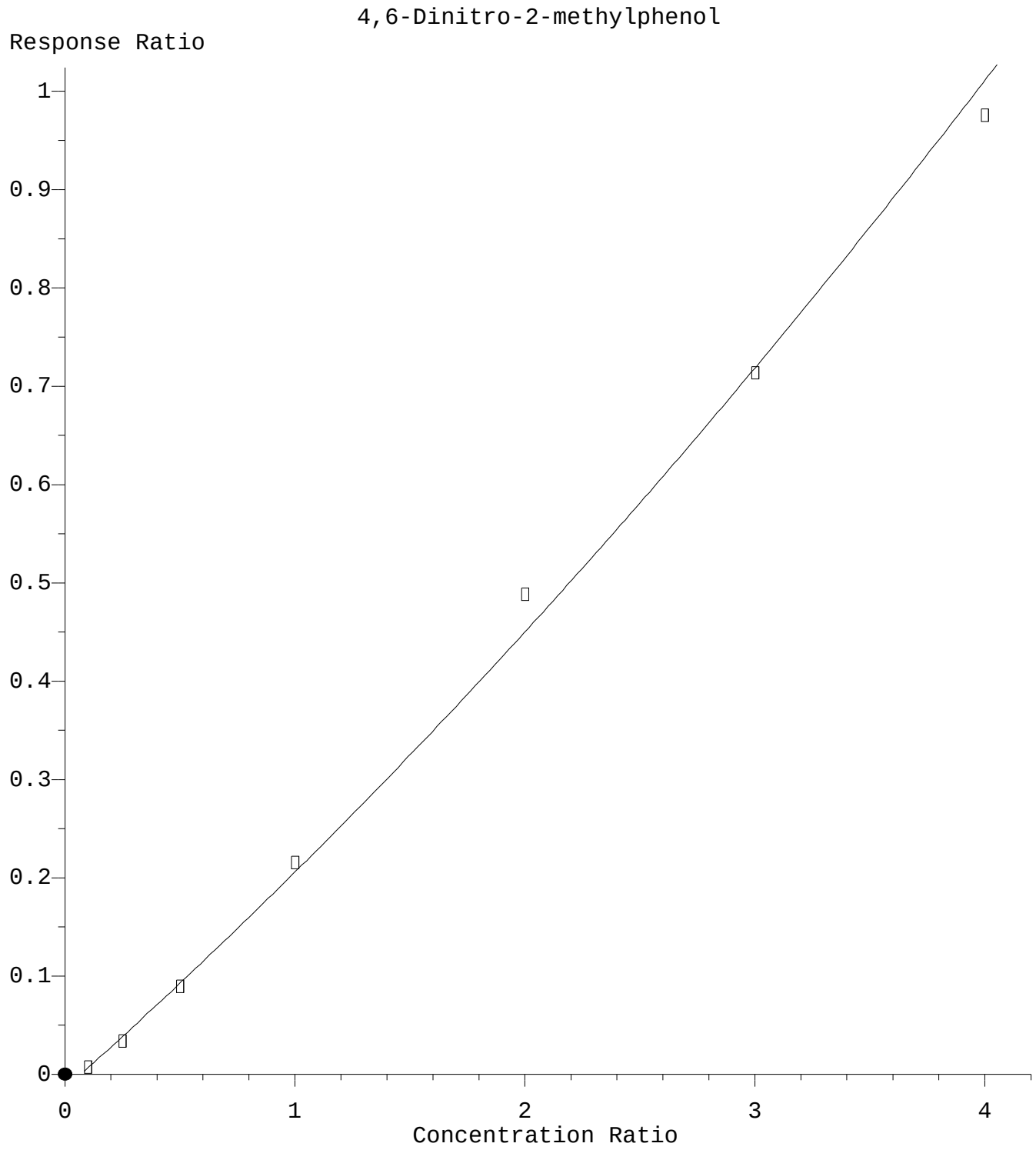
TIC: J05012011.D\data.ms

(57) 2,3,4,6-Tetrachlorophenol (T)

10.205min (+ 0.006) 31.06 ng/ml m

response 126

Ion	Exp%	Act%
231.90	100.00	100.00
130.90	39.50	47.45
229.90	76.60	108.39#
0.00	0.00	0.00

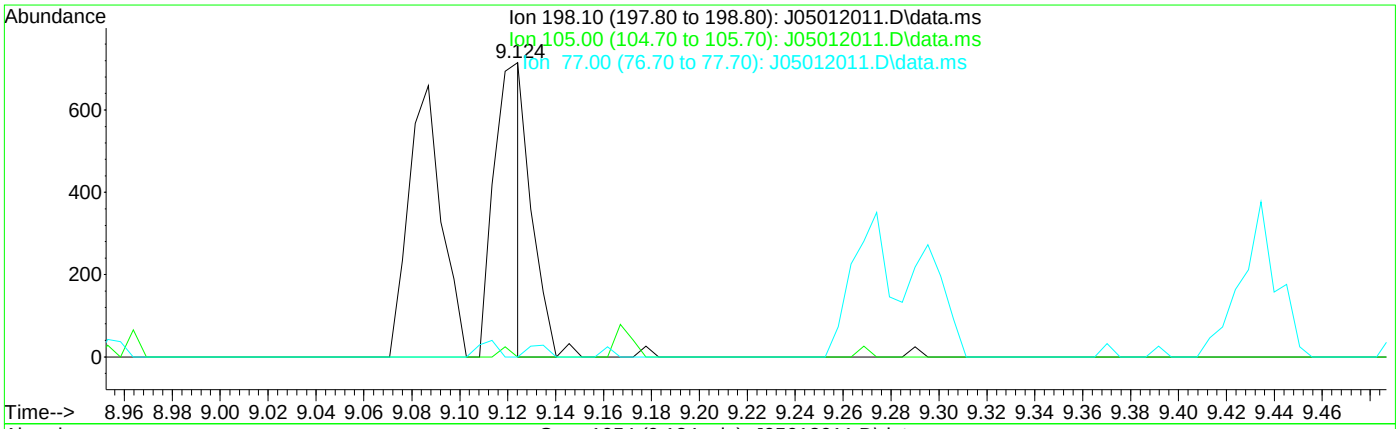


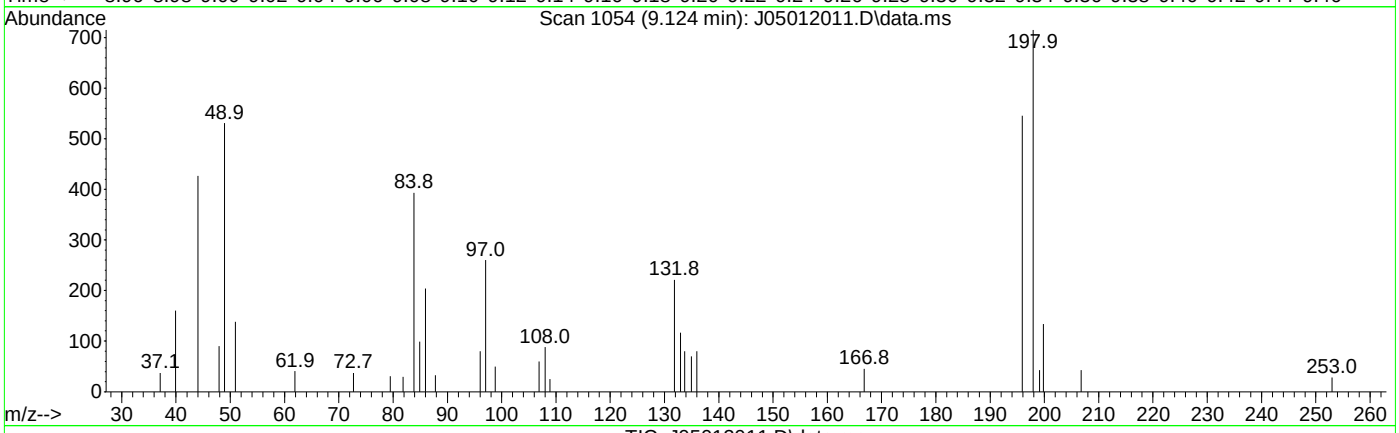
R = 1.21e-002 A*A + 2.08e-001 A - 1.42e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





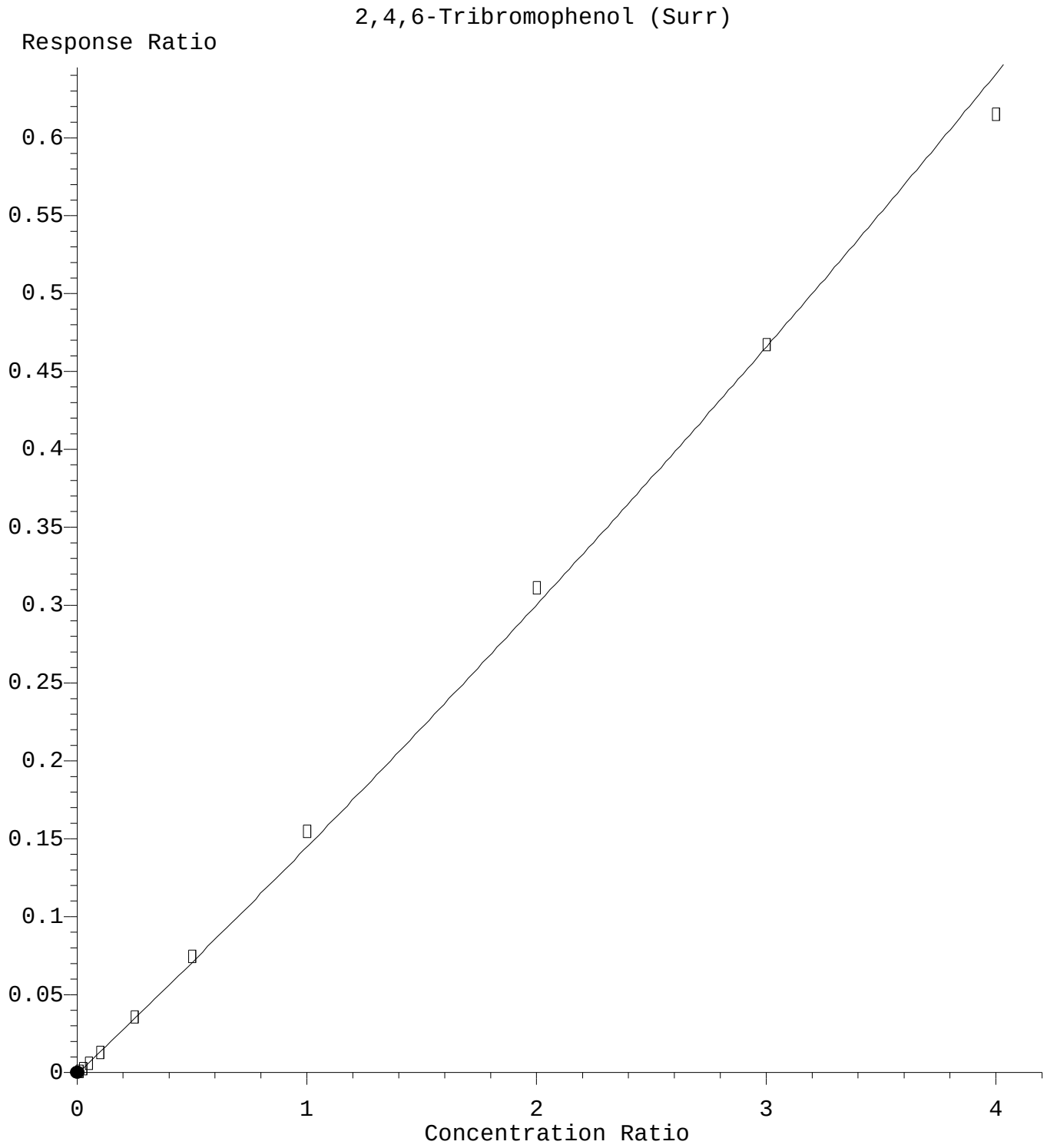
TIC: J05012011.D\data.ms

(63) 4,6-Dinitro-2-methylphenol (T)

9.124min (-1.337) 140.86 ng/ml m

response 166

Ion	Exp%	Act%
198.10	100.00	100.00
105.00	39.30	0.00#
77.00	16.30	0.00
0.00	0.00	0.00



R = 4.98e-003 A*A + 1.41e-001 A - 7.51e-004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
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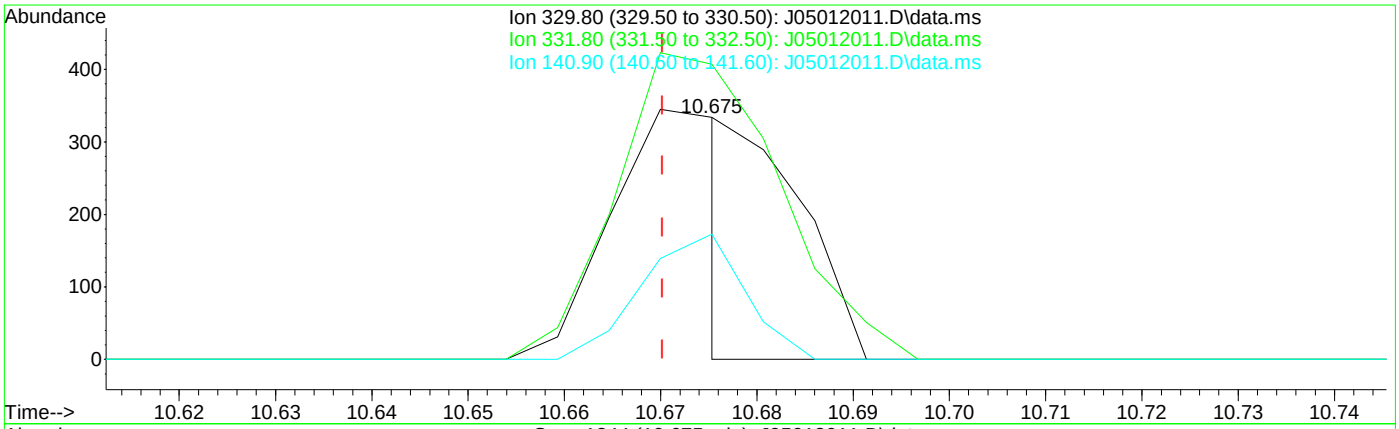
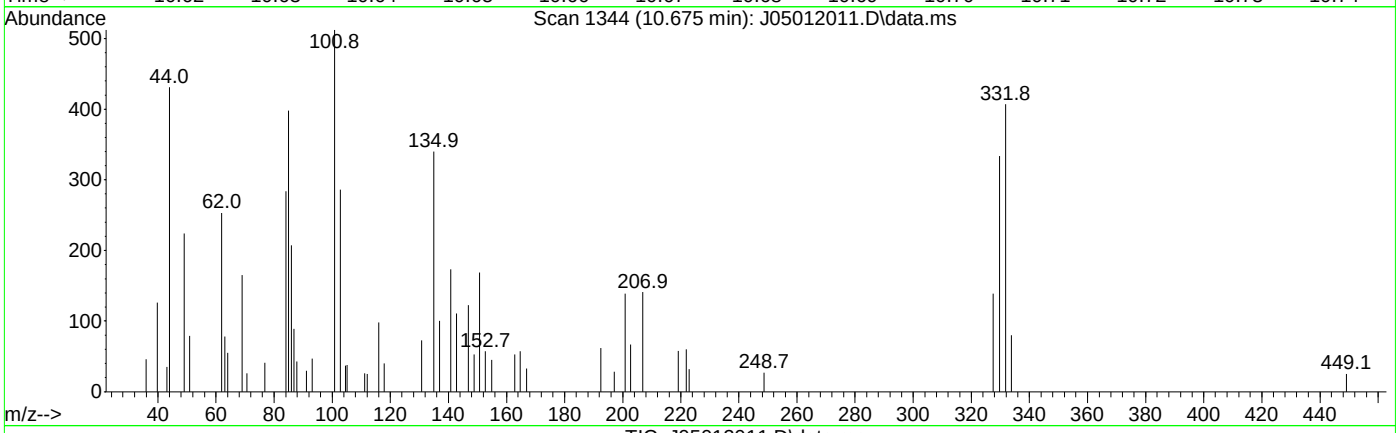




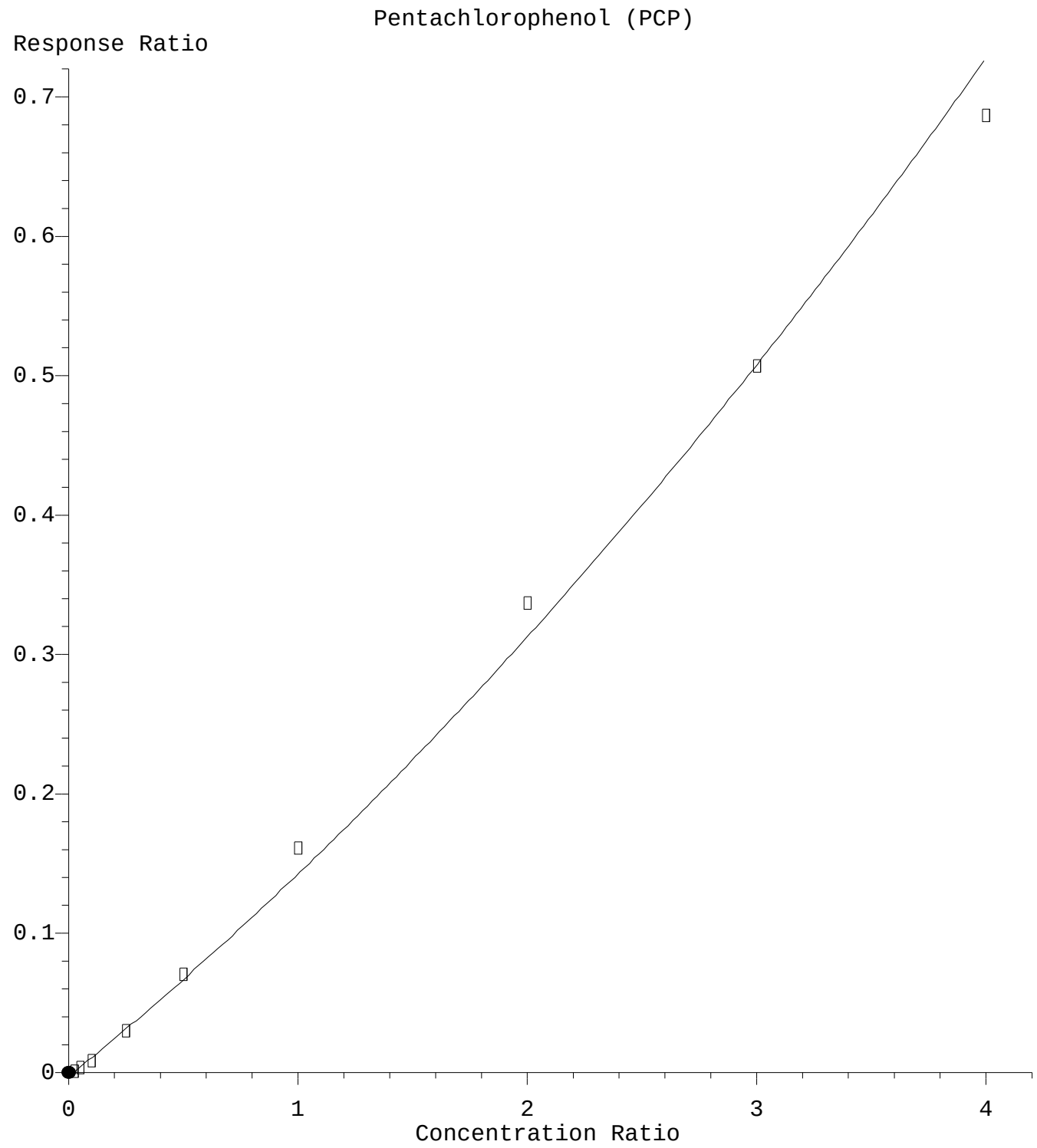
TIC: J05012011.D\data.ms

(67) 2,4,6-Tribromophenol (Surr) (S)

10.675min (+ 0.005) 14.32 ng/ml m

response 154

Ion	Exp%	Act%
329.80	100.00	100.00
331.80	99.30	121.86
140.90	29.50	51.80
0.00	0.00	0.00



R = 1.25e-002 A*A + 1.33e-001 A - 2.60e-003
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
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Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
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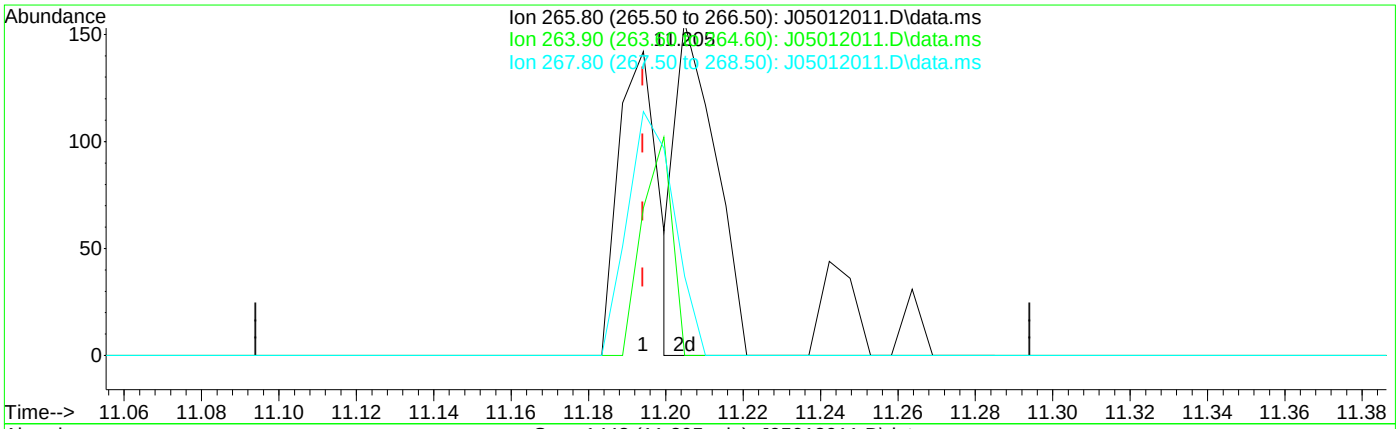
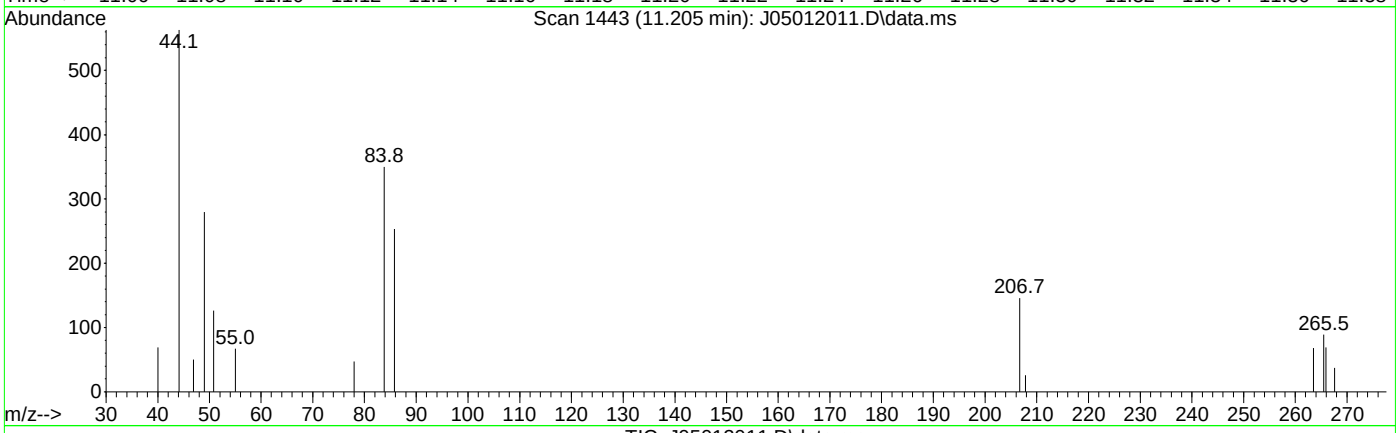




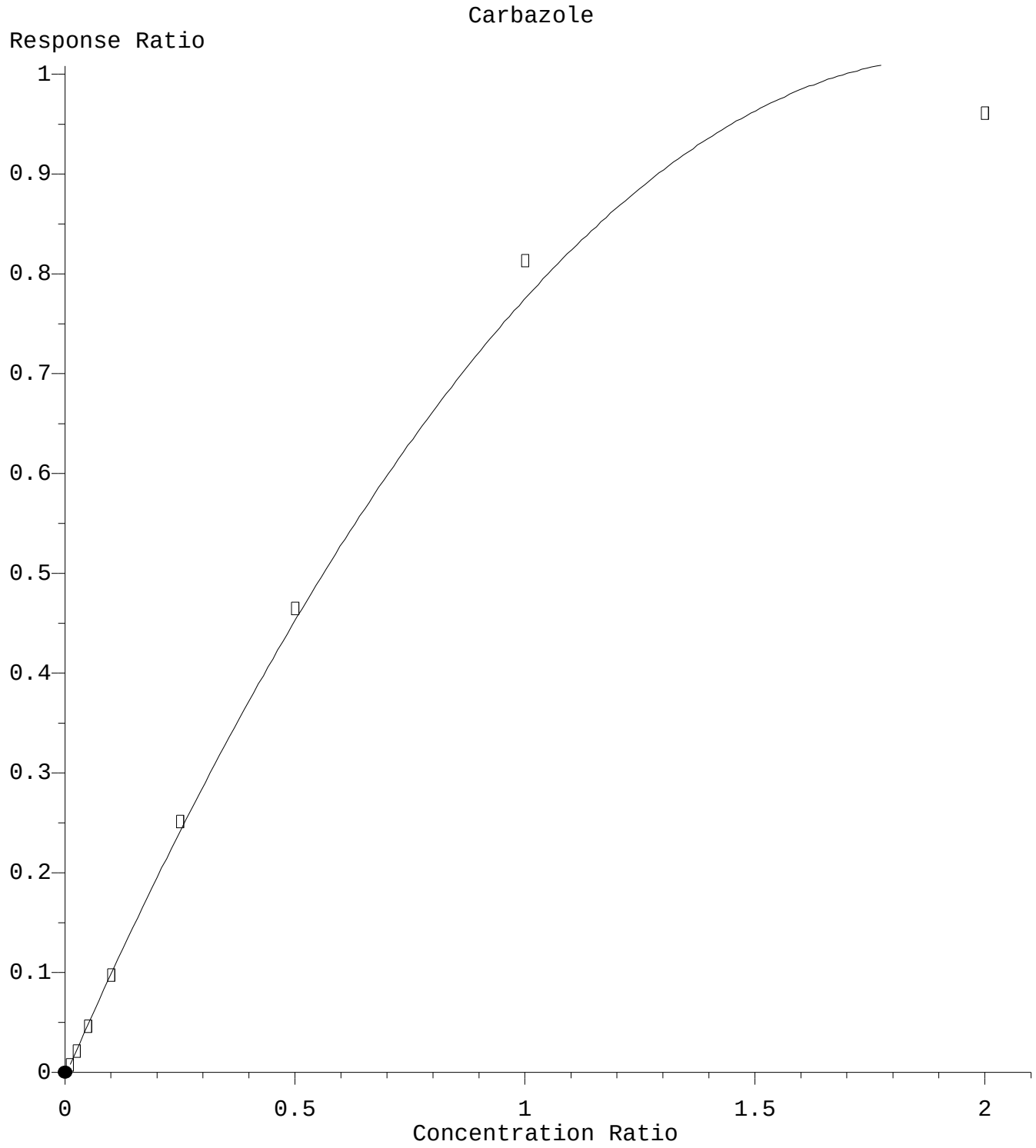
TIC: J05012011.D\data.ms

(70) Pentachlorophenol (PCP) (T)

11.205min (+ 0.011) 42.78 ng/ml m

response 146

Ion	Exp%	Act%
265.80	100.00	100.00
263.90	63.70	0.00#
267.80	64.80	41.57
0.00	0.00	0.00

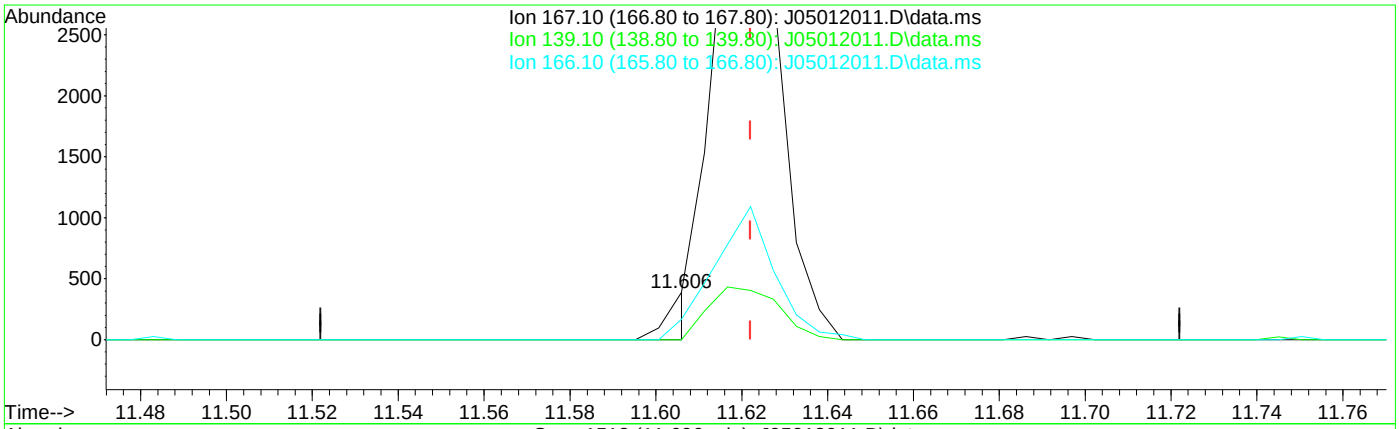


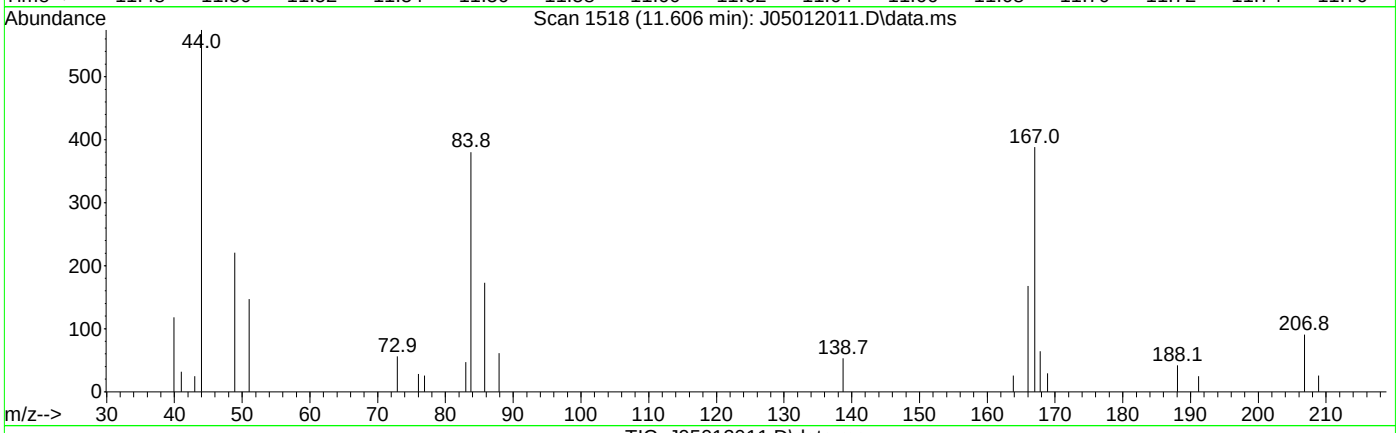
R = -2.68e-001 A*A + 1.05e+000 A - 3.36e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





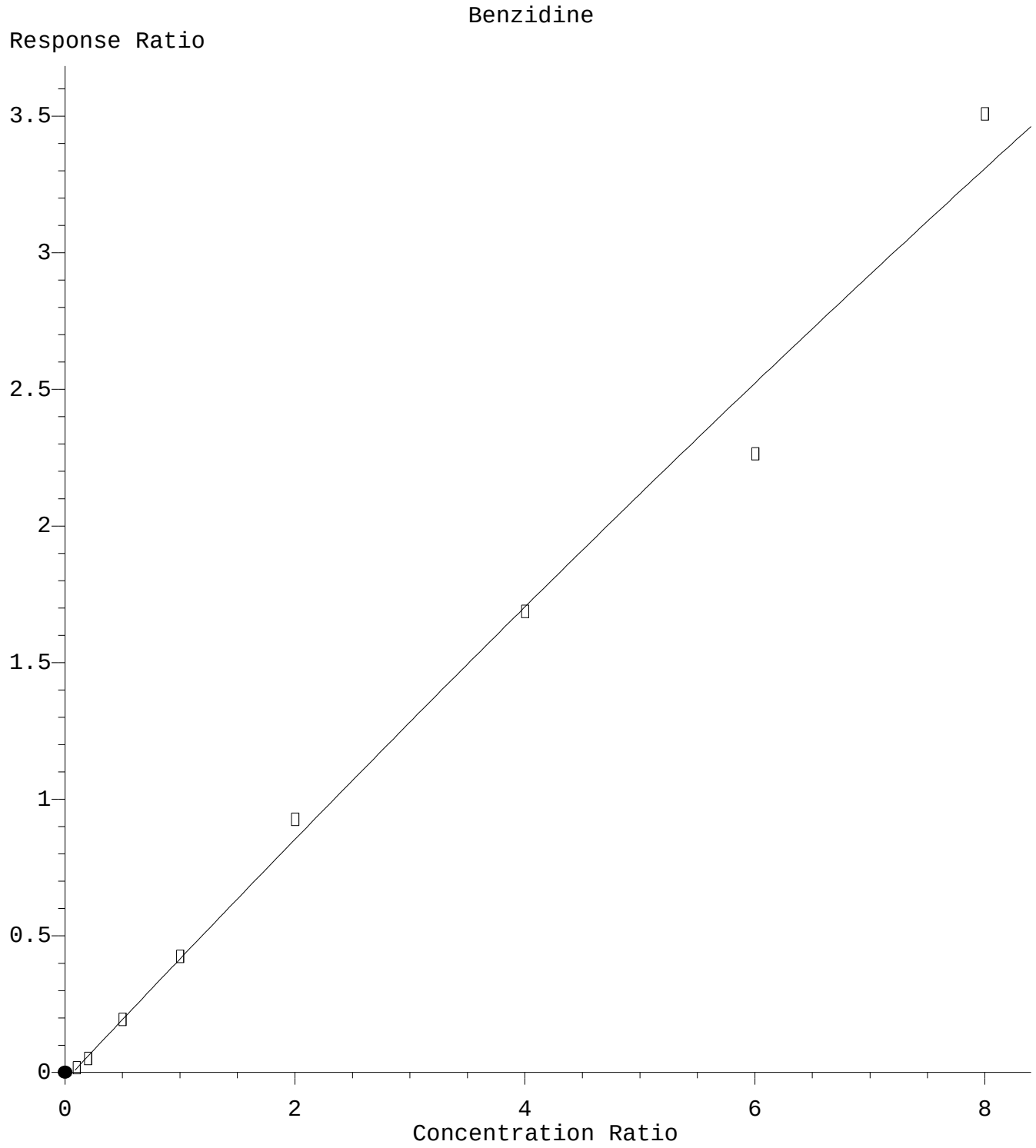
TIC: J05012011.D\data.ms

(73) Carbazole (T)

11.606min (-0.016) 6.92 ng/ml m

response 156

Ion	Exp%	Act%
167.10	100.00	100.00
139.10	11.90	0.00
166.10	20.70	43.30
0.00	0.00	0.00

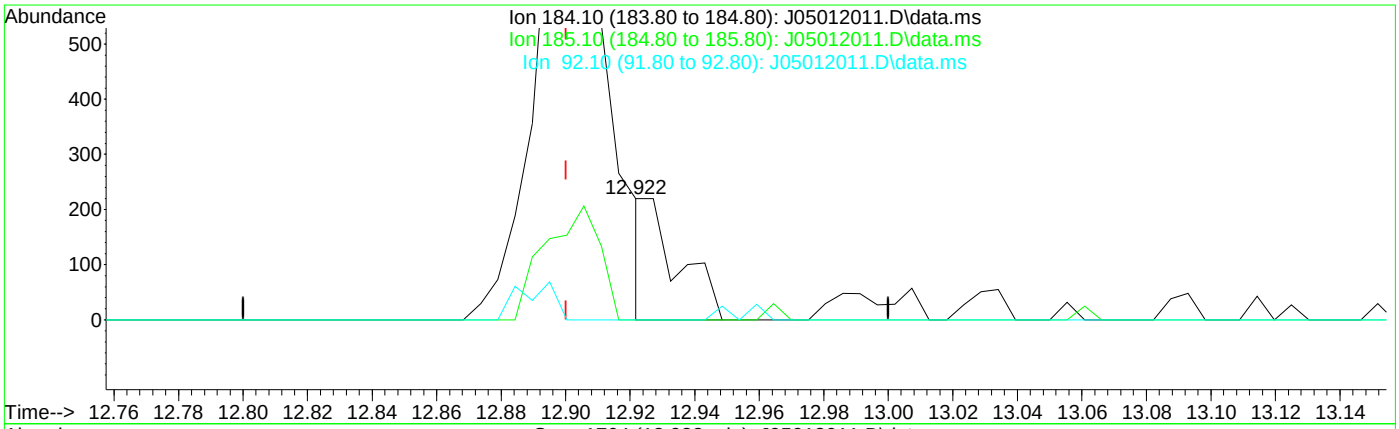


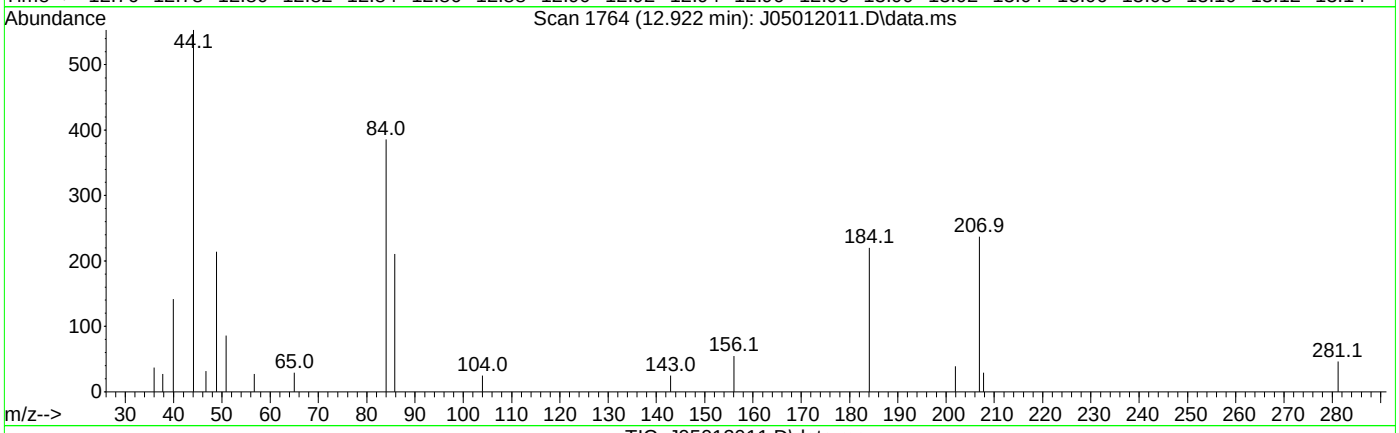
R = -4.04e-003 A*A + 4.50e-001 A - 3.03e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





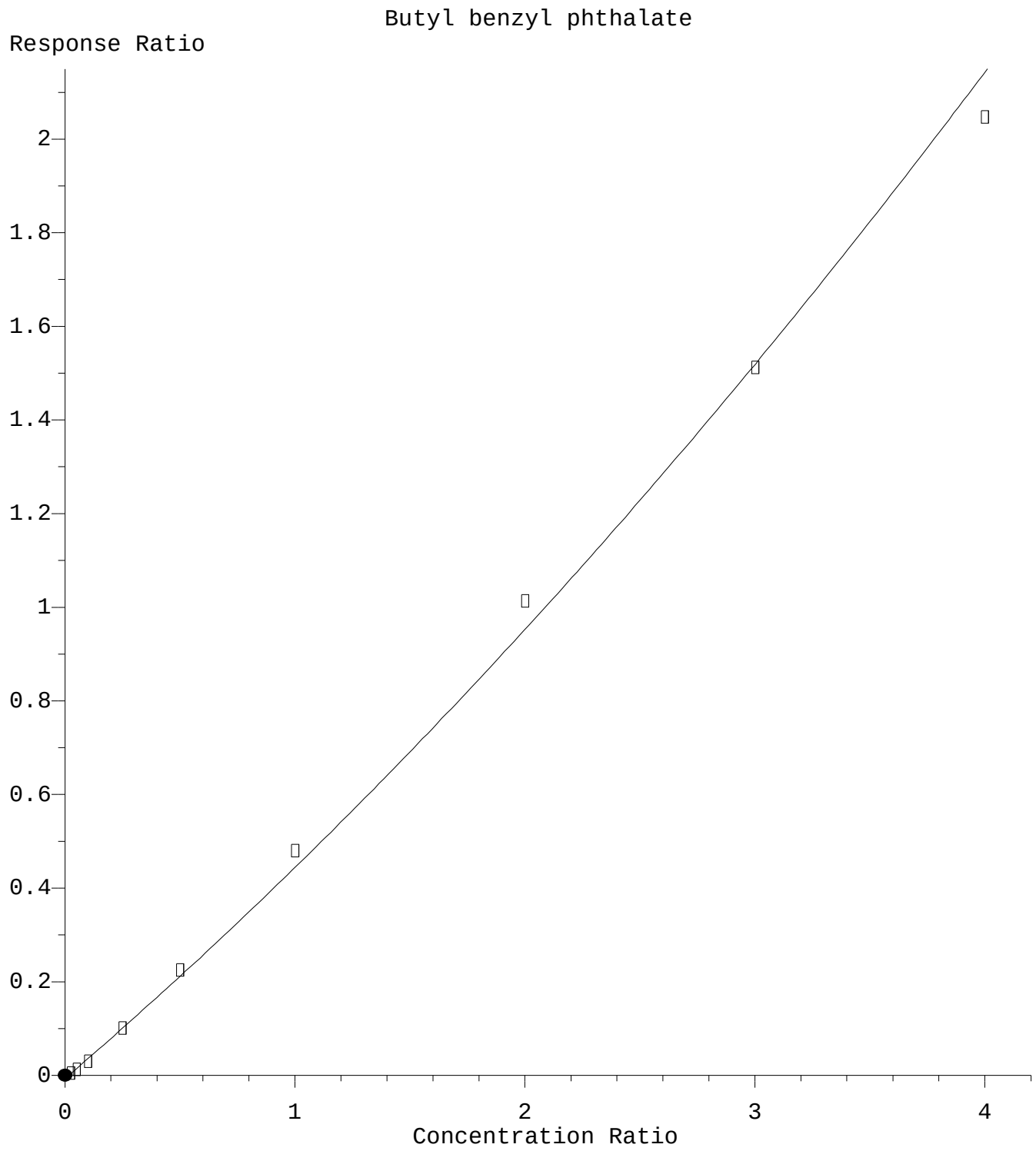
TIC: J05012011.D\data.ms

(76) Benzidine (T)

12.922min (+ 0.022) 136.01 ng/ml m

response 158

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	15.70	0.00
92.10	10.00	0.00
0.00	0.00	0.00

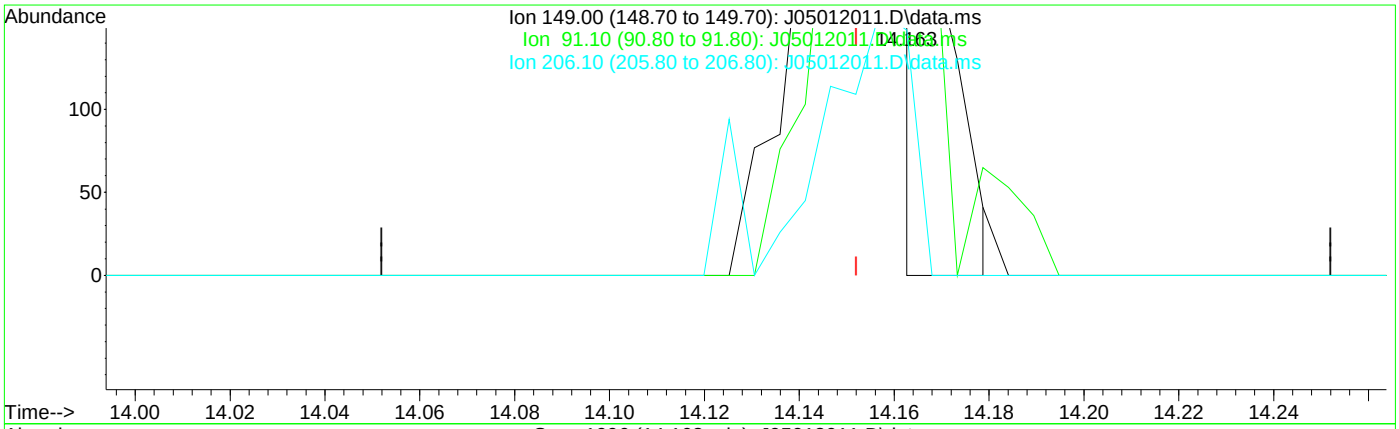


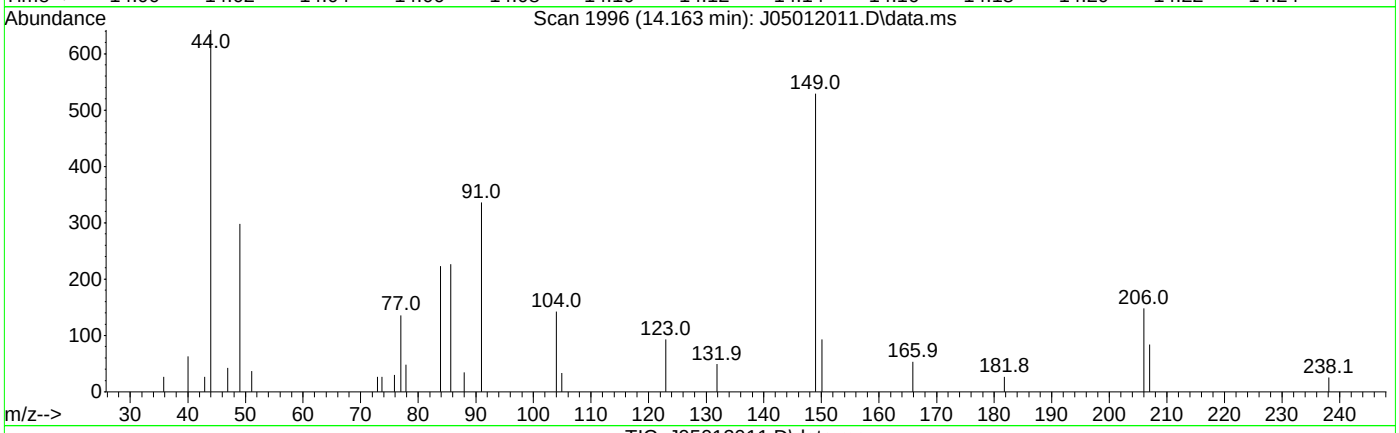
R = 2.89e-002 A*A + 4.22e-001 A - 6.40e-003
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





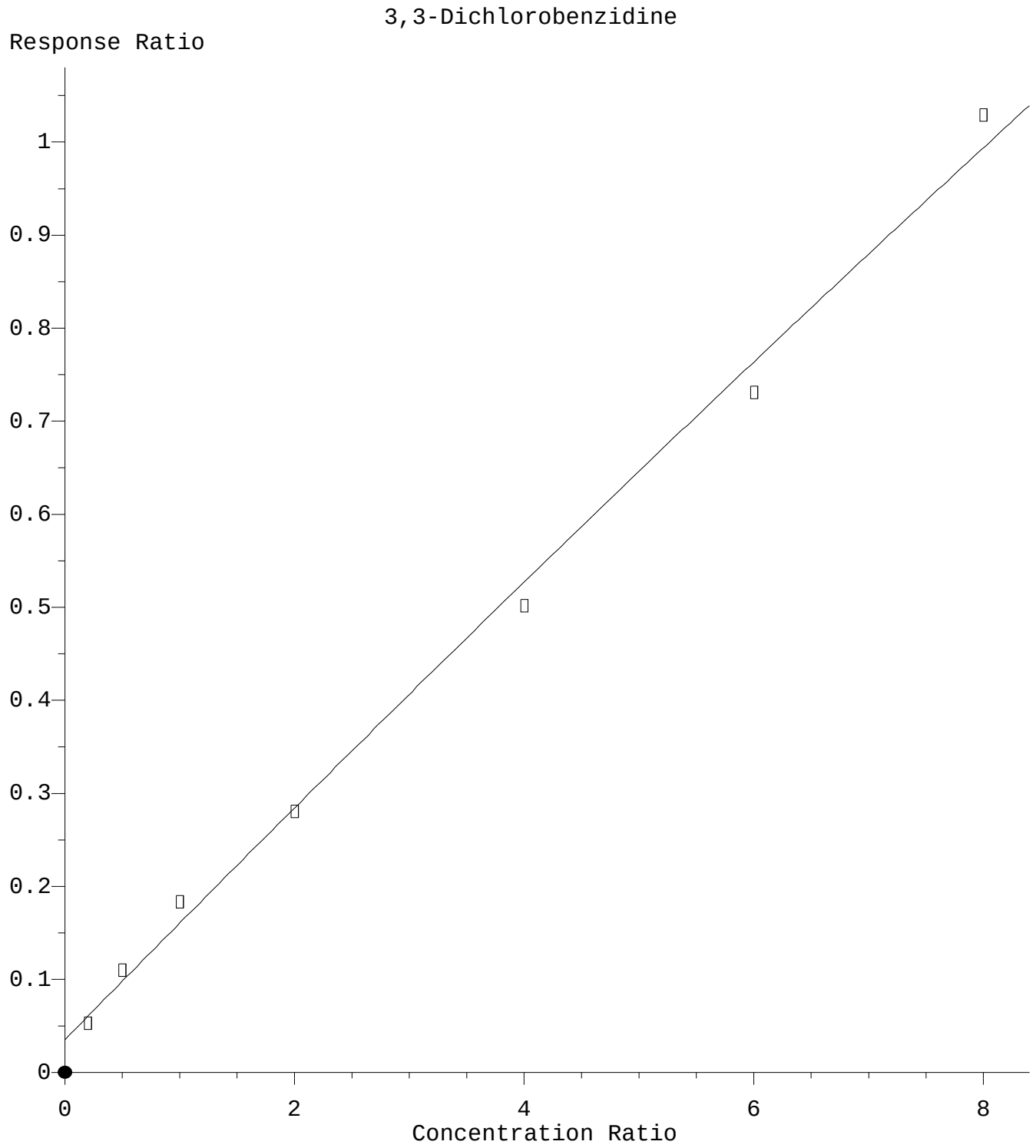
TIC: J05012011.D\data.ms

(80) Butyl benzyl phthalate (T)

14.163min (+ 0.011) 31.21 ng/ml m

response 118

Ion	Exp%	Act%
149.00	100.00	100.00
91.10	55.70	63.52
206.10	18.20	27.98
0.00	0.00	0.00

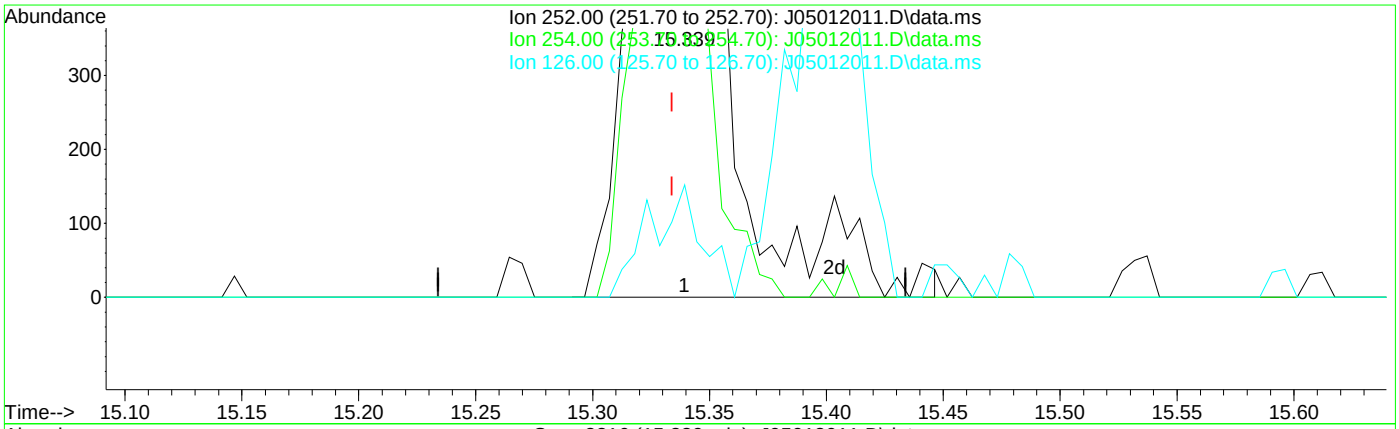


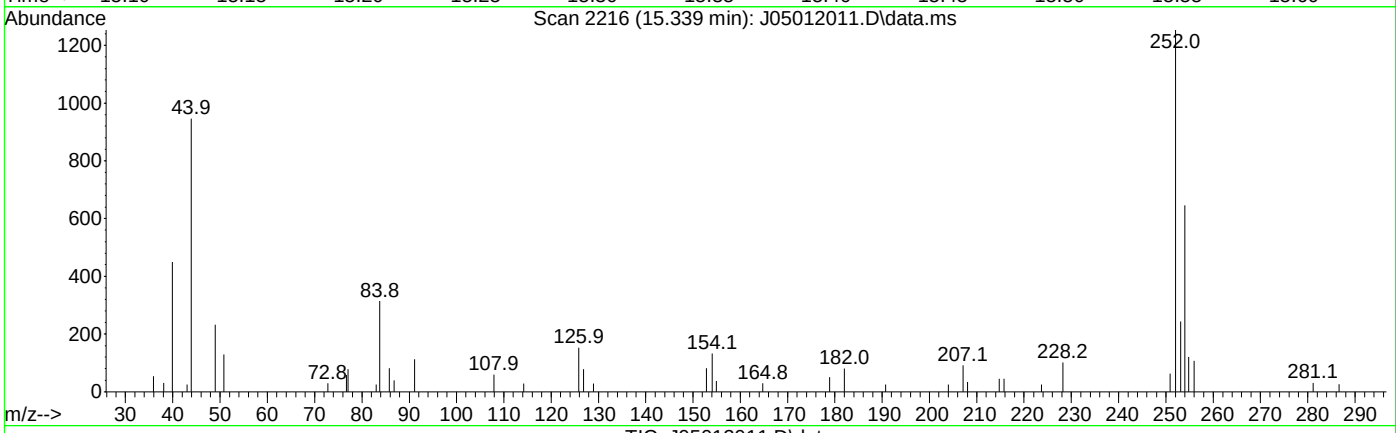
R = -7.83e-004 A*A + 1.26e-001 A + 3.53e-002
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





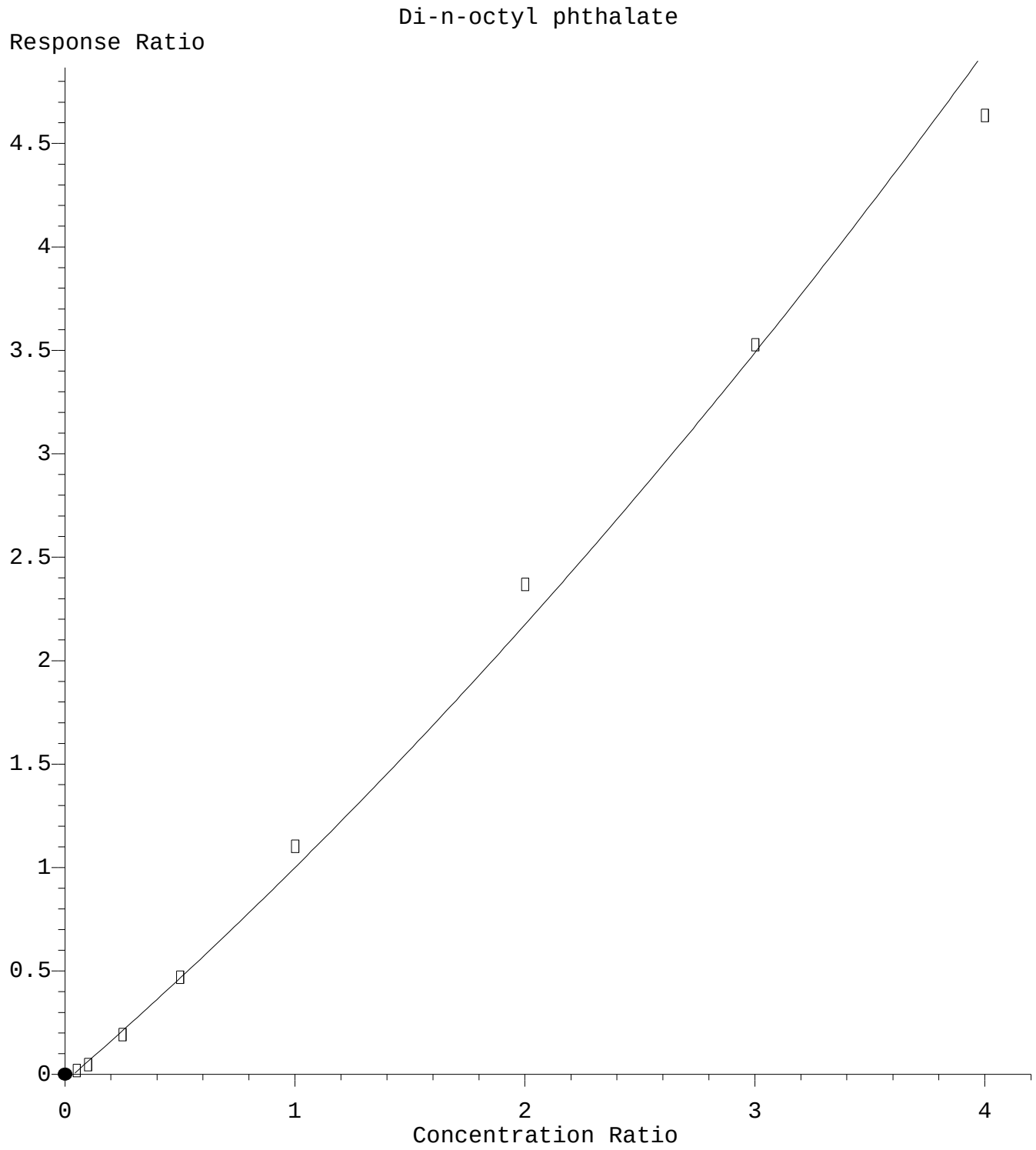
TIC: J05012011.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.339min (+ 0.005) -1.00 ng/ml m

response 2655

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	51.56
126.00	13.30	12.13
0.00	0.00	0.00

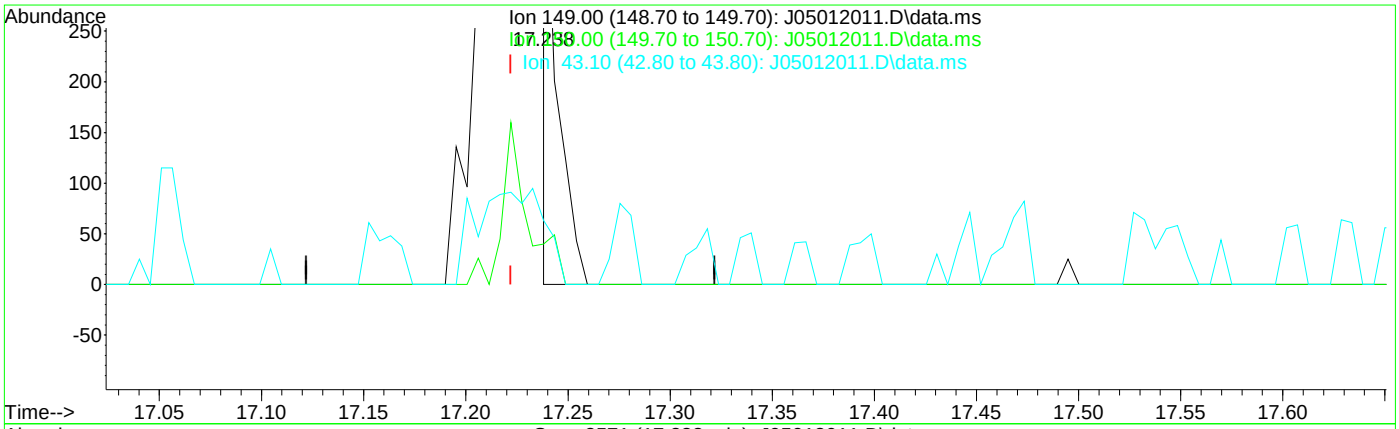


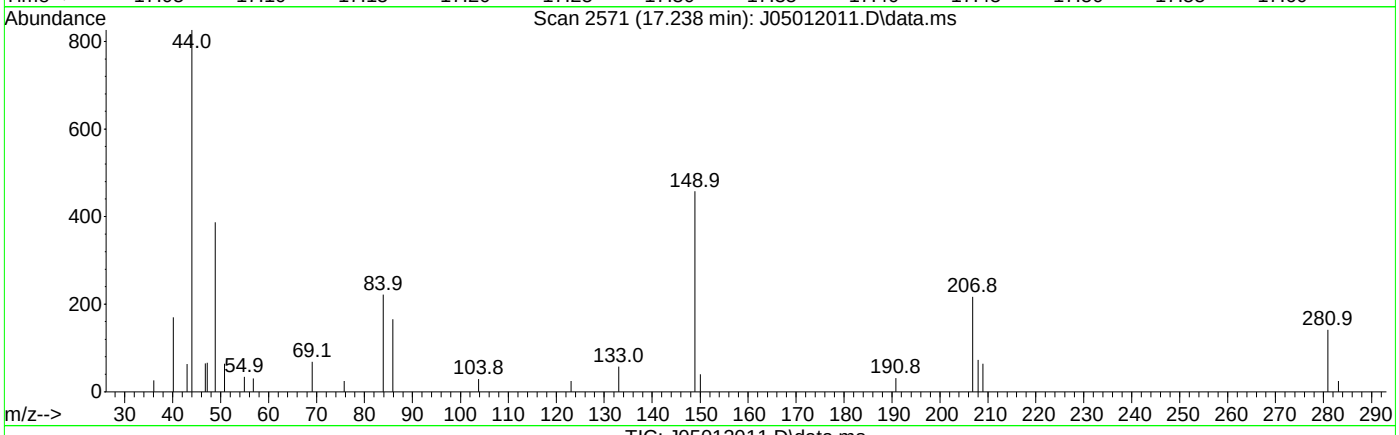
R = 7.02e-002 A*A + 9.64e-001 A - 3.48e-002
Coef of Det (r^2) = 0.990 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





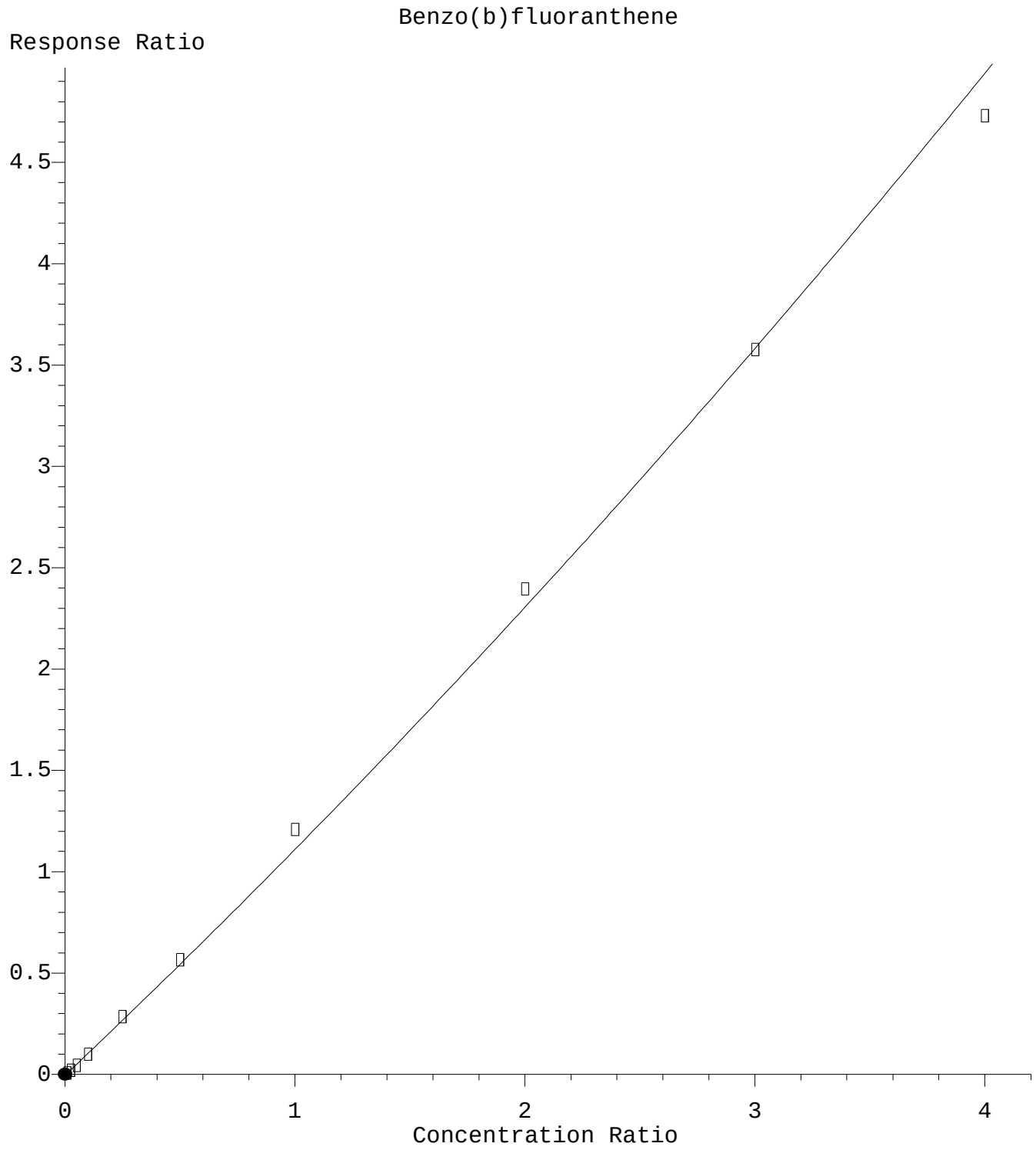
TIC: J05012011.D\data.ms

(87) Di-n-octyl phthalate (T)

17.238min (+ 0.016) 72.45 ng/ml m

response 118

Ion	Exp%	Act%
149.00	100.00	100.00
150.00	9.70	8.73
43.10	4.60	13.76
0.00	0.00	0.00

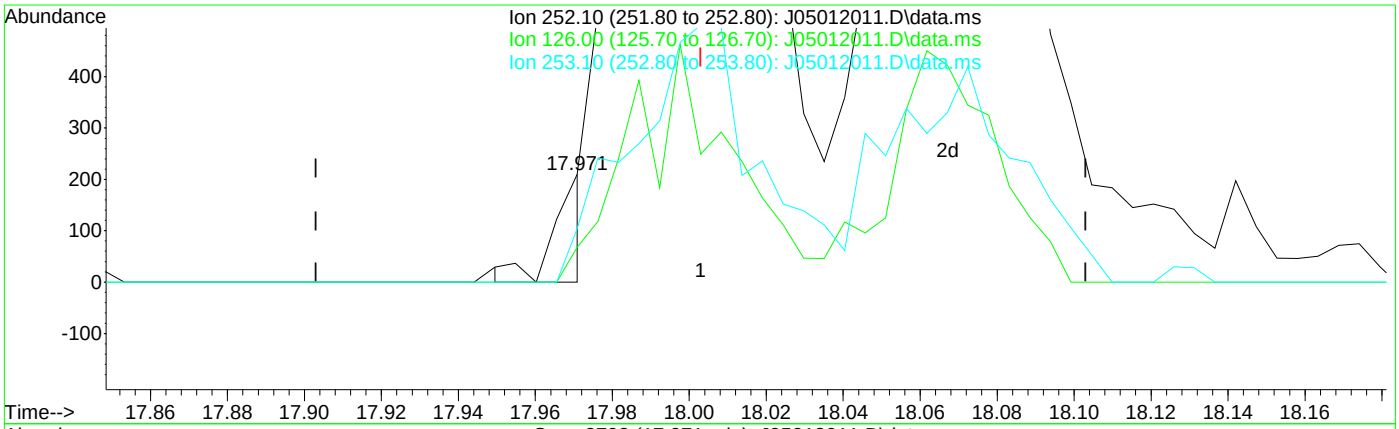


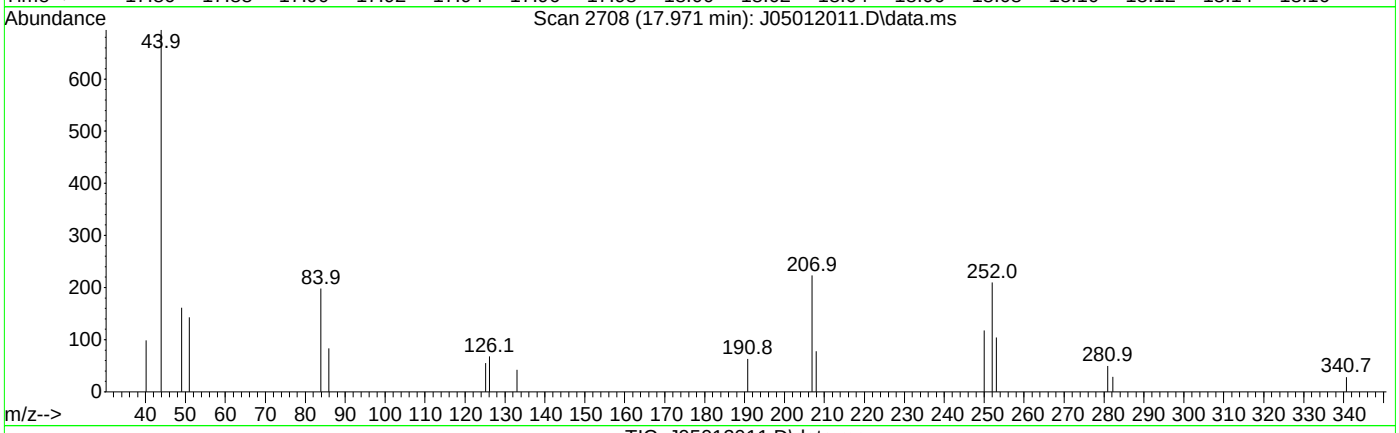
R = 4.07e-002 A*A + 1.07e+000 A - 4.38e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





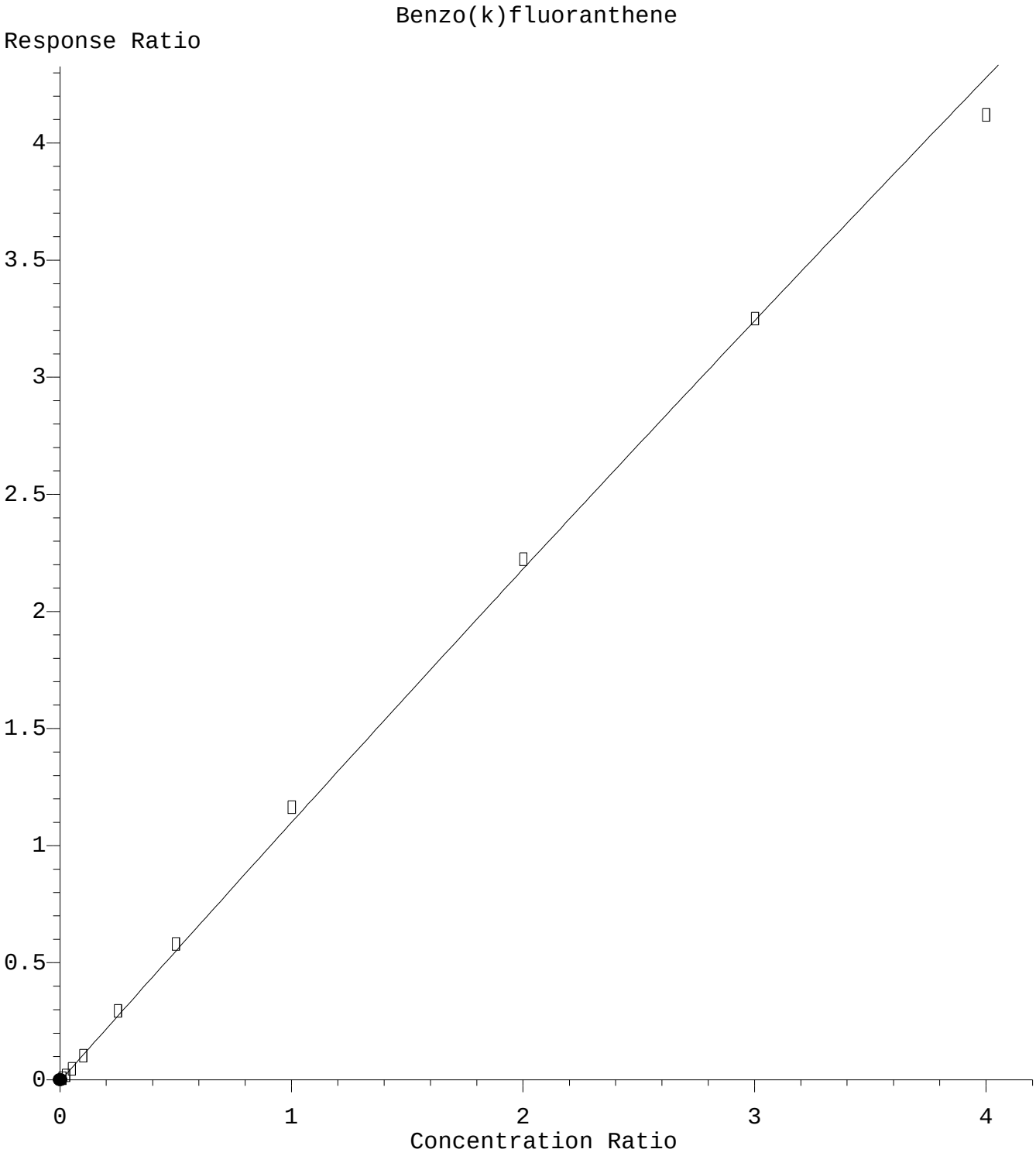
TIC: J05012011.D\data.ms

(88) Benzo(b)fluoranthene (T)

17.971min (-0.032) 8.50 ng/ml m

response 119

Ion	Exp%	Act%
252.10	100.00	100.00
126.00	16.20	32.38
253.10	22.30	49.52
0.00	0.00	0.00

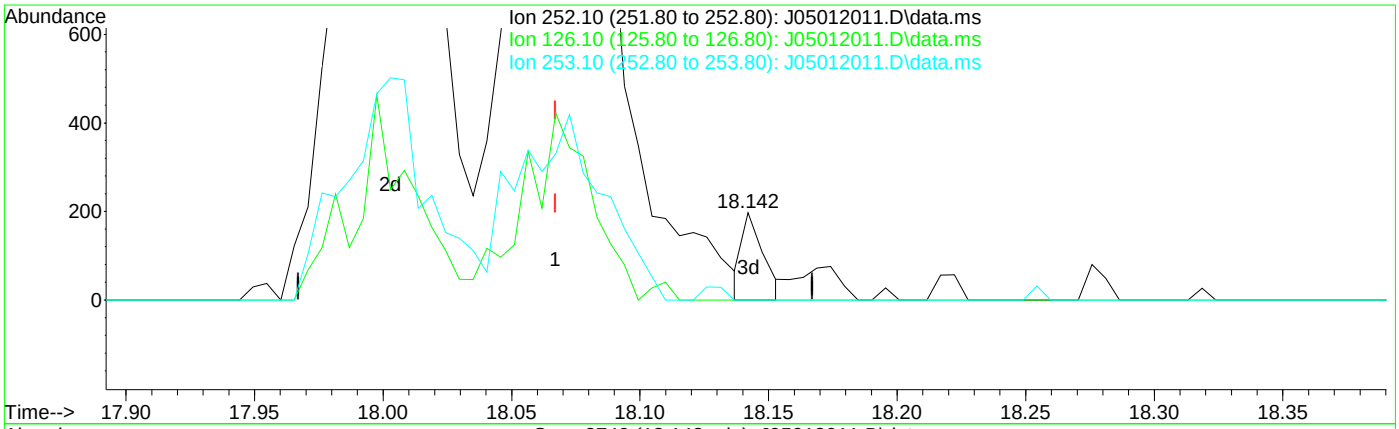


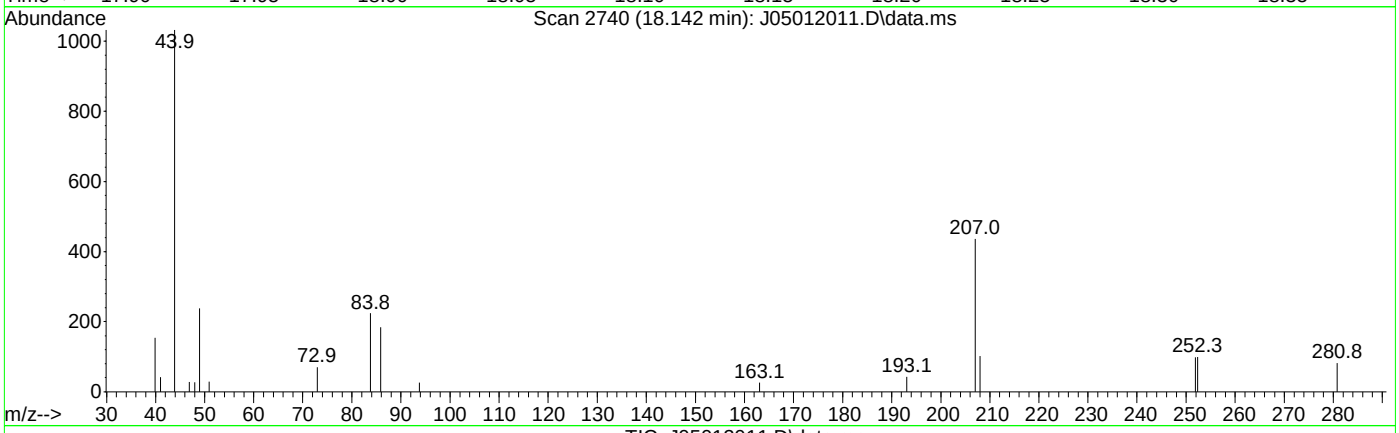
R = -1.10e-002 A*A + 1.12e+000 A - 5.09e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





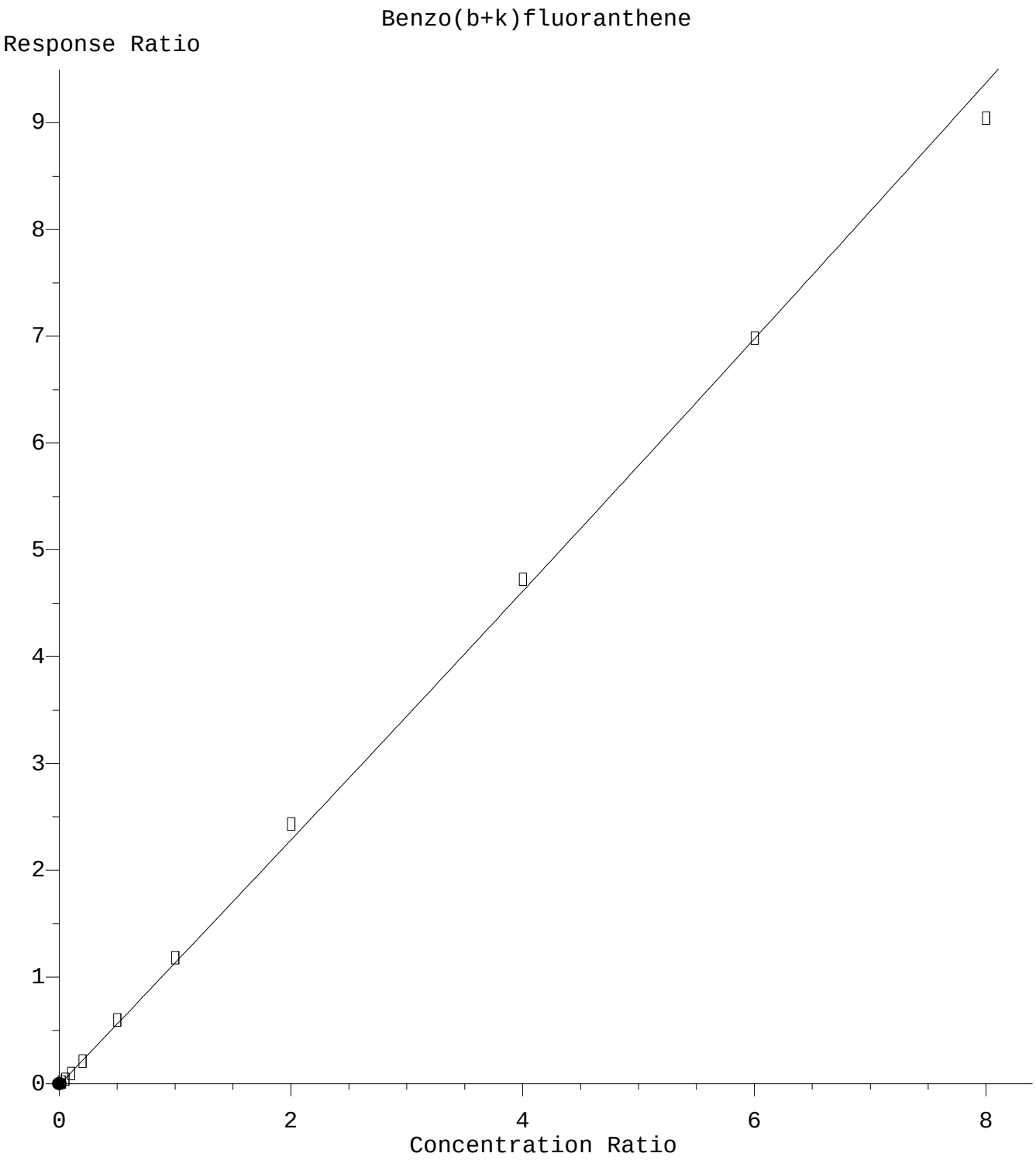
TIC: J05012011.D\data.ms

(89) Benzo(k)fluoranthene (T)

18.142min (+ 0.075) 9.45 ng/ml m

response 113

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	17.40	0.00
253.10	21.90	0.00
0.00	0.00	0.00

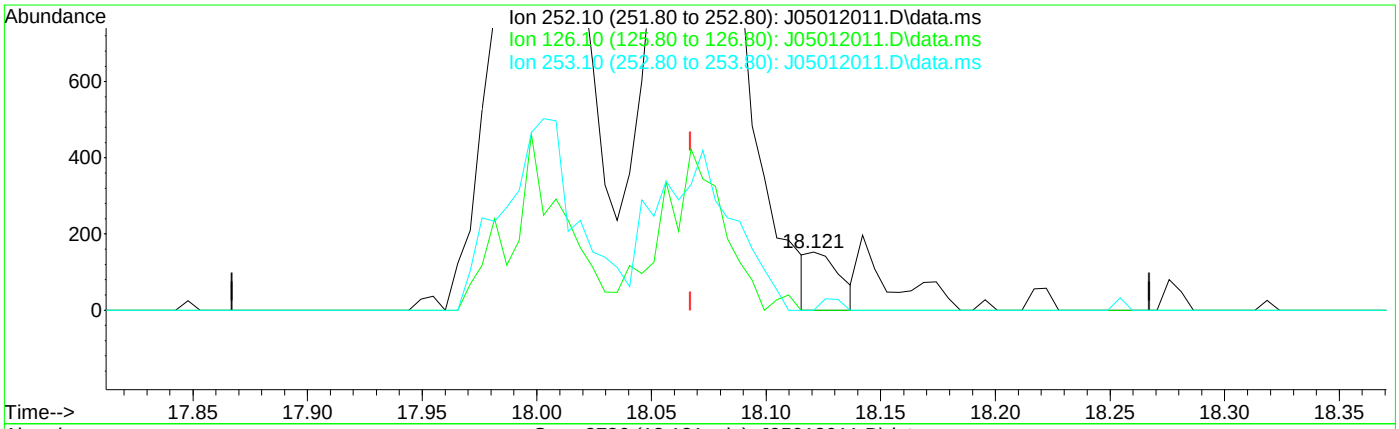


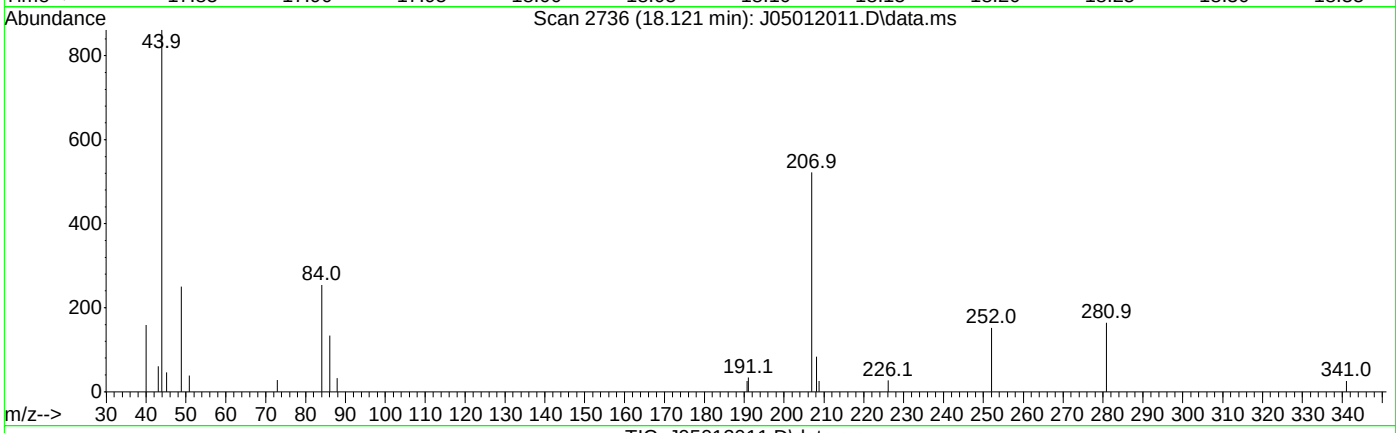
R = 4.42e-003 A*A + 1.14e+000 A - 9.27e-003
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 13:20:56 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration





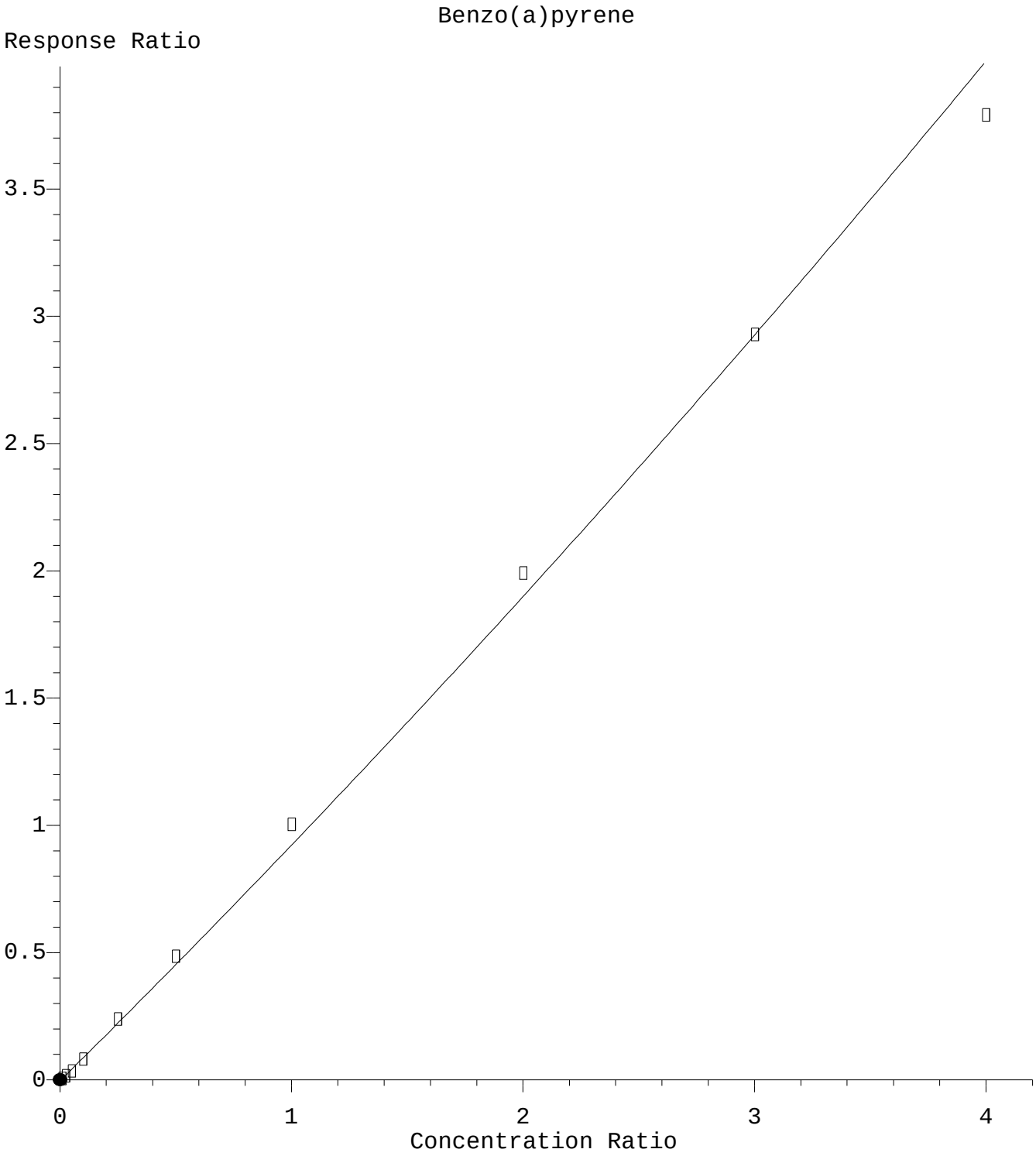
TIC: J05012011.D\data.ms

(90) Benzo(b+k)fluoranthene (T)

18.121min (+ 0.054) 16.70 ng/ml m

response 146

Ion	Exp%	Act%
252.10	100.00	100.00
126.10	17.40	0.00
253.10	21.90	0.00
0.00	0.00	0.00



R = 2.51e-002 A*A + 9.01e-001 A - 4.19e-003
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\SV10_050120.M
Calibration Table Last Updated: Mon May 04 12:30:38 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\REQUANT\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
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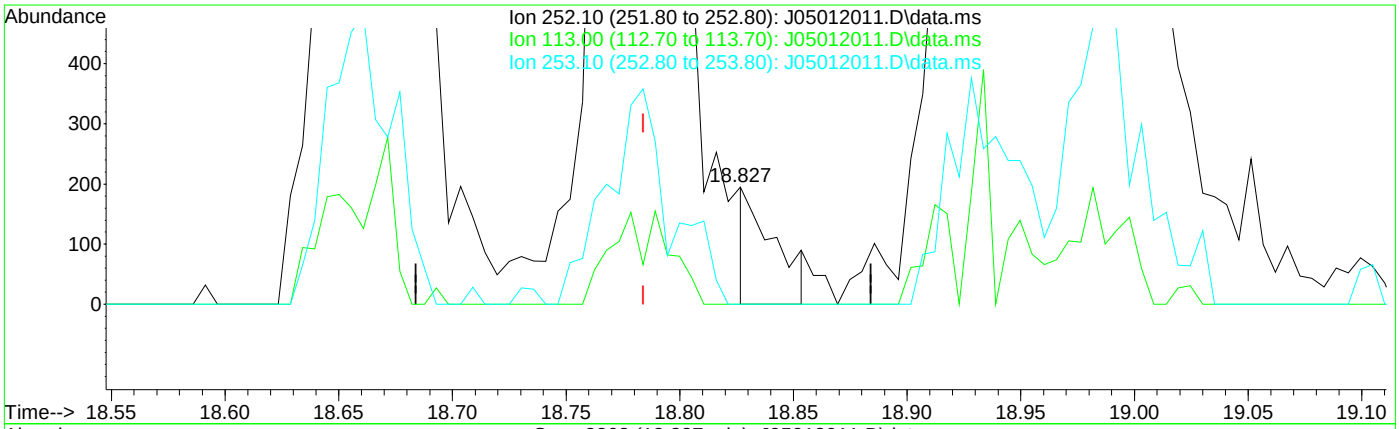
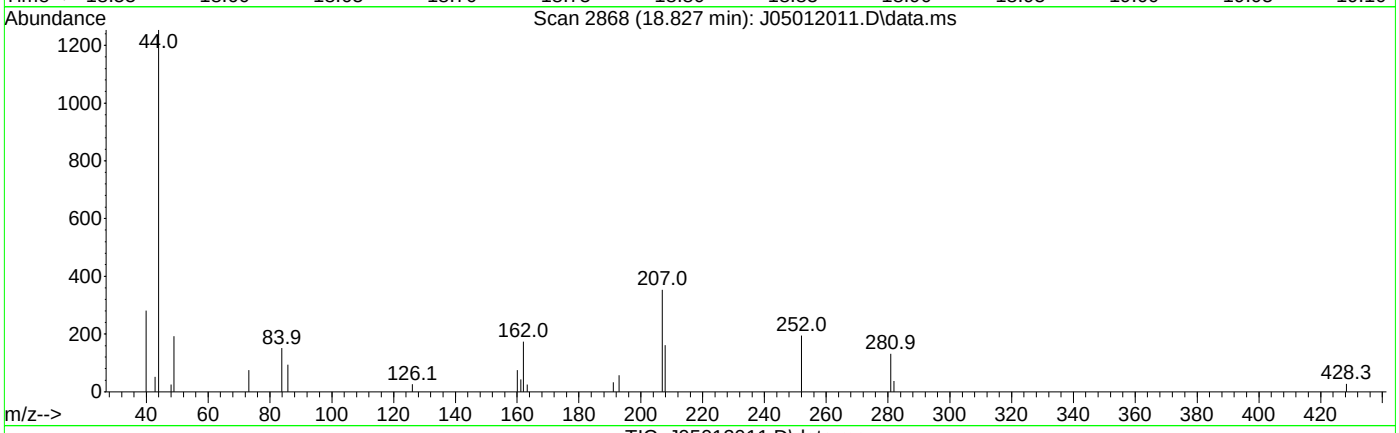




TIC: J05012011.D\data.ms

(92) Benzo(a)pyrene (T)

18.827min (+ 0.043) 9.89 ng/ml m

response 167

Ion	Exp%	Act%
252.10	100.00	100.00
113.00	9.40	0.00
253.10	22.40	0.00
0.00	0.00	0.00

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01048

Analysis Included
8270E LL Full List

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0E01048-TUN1	MS Tune	Soil	A20D411	A20C061	5/1/2020 2:11:00PM
0E01048-ICB1	Initial Cal Blank	Soil		A20C061	5/1/2020 2:39:00PM
0E01048-CAL1	Cal Standard	Soil	A20D243	"	5/1/2020 3:16:00PM
0E01048-CAL2	Cal Standard	Soil	A20D244	"	5/1/2020 3:53:00PM
0E01048-CAL3	Cal Standard	Soil	A20D245	"	5/1/2020 6:15:00PM
0E01048-CAL4	Cal Standard	Soil	A20D246	"	5/1/2020 6:50:00PM
0E01048-CAL5	Cal Standard	Soil	A20D247	"	5/1/2020 7:26:00PM
0E01048-CAL6	Cal Standard	Soil	A20D248	"	5/1/2020 8:01:00PM
0E01048-CAL7	Cal Standard	Soil	A20D249	"	5/1/2020 8:36:00PM
0E01048-CAL8	Cal Standard	Soil	A20D250	"	5/1/2020 9:11:00PM
0E01048-CAL9	Cal Standard	Soil	A20D251	"	5/1/2020 9:46:00PM
0E01048-CALA	Cal Standard	Soil	A20D252	"	5/1/2020 10:21:00PM
0E01048-ICV1	Initial Cal Check	Soil	A20C090	"	5/1/2020 11:31:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Soil**

0E01048-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-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: 0E01048

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: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Soil**

0E01048-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.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01048

Analysis Included
8270E LL Full List

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0E01048-TUN1	MS Tune	Water	A20D411	A20C061	5/1/2020 2:11:00PM
0E01048-ICB1	Initial Cal Blank	Water		A20C061	5/1/2020 2:39:00PM
0E01048-CAL1	Cal Standard	Water	A20D243	"	5/1/2020 3:16:00PM
0E01048-CAL2	Cal Standard	Water	A20D244	"	5/1/2020 3:53:00PM
0E01048-CAL3	Cal Standard	Water	A20D245	"	5/1/2020 6:15:00PM
0E01048-CAL4	Cal Standard	Water	A20D246	"	5/1/2020 6:50:00PM
0E01048-CAL5	Cal Standard	Water	A20D247	"	5/1/2020 7:26:00PM
0E01048-CAL6	Cal Standard	Water	A20D248	"	5/1/2020 8:01:00PM
0E01048-CAL7	Cal Standard	Water	A20D249	"	5/1/2020 8:36:00PM
0E01048-CAL8	Cal Standard	Water	A20D250	"	5/1/2020 9:11:00PM
0E01048-CAL9	Cal Standard	Water	A20D251	"	5/1/2020 9:46:00PM
0E01048-CALA	Cal Standard	Water	A20D252	"	5/1/2020 10:21:00PM
0E01048-ICV1	Initial Cal Check	Water	A20C090	"	5/1/2020 11:31:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Water**

0E01048-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01048-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: 0E01048

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: **A0E0506** Instrument: **SV-GCMS10**

8270E LL Full List Sequence: **0E01048** Matrix: **Water**

0E01048-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 : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4 (IST	2000.000	2000.000	0.0	100	0.00
2	TG	N-Nitrosodimethylamine	1000.000	1108.563	-10.9	109	-0.02
3	TG	Pyridine	1000.000	1032.737	-3.3	103	-0.02
4	S	2-Fluorophenol (Surr)	1000.000	1090.392	-9.0	105	0.00
5	S	Phenol-d6(Surr)	1000.000	1143.738	-14.4	106	0.00
6	T	Phenol	1000.000	1230.470	-23.0	119	0.00
7	T	Aniline	1000.000	1062.633	-6.3	106	0.00
8	T	Bis(2-chloroethyl) ether	1000.000	1131.847	-13.2	104	0.00
9	T	2-Chlorophenol	1000.000	1126.541	-12.7	105	0.00
10	T	1,3-Dichlorobenzene	1000.000	1041.869	-4.2	103	0.00
11	T	1,4-Dichlorobenzene	1000.000	1061.399	-6.1	106	0.00
12	T	Benzyl alcohol	1000.000	1114.553	-11.5	102	0.00
13	T	1,2-Dichlorobenzene	1000.000	1084.345	-8.4	105	0.00
14	T	2-Methylphenol	1000.000	1185.828	-18.6	108	0.00
15	T	2,2’-Oxybis(1-Chloropropane	1000.000	1126.027	-12.6	107	0.00
16	T	N-Nitrosodi-n-propylamine	1000.000	1174.888	-17.5	108	0.00
17	T	3+4-Methylphenol	1000.000	1202.521	-20.3	108	0.00
18	T	Hexachloroethane	1000.000	1079.192	-7.9	106	0.00
19	S	Nitrobenzene-d5 (Surr)	1000.000	1147.138	-14.7	105	0.00
20	T	Nitrobenzene	1000.000	1157.931	-15.8	110	0.00
21	I	Naphthalene-d8 (ISTD)	2000.000	2000.000	0.0	103	0.00
22	T	Isophorone	1000.000	1100.114	-10.0	109	0.00
23	T	2-Nitrophenol	1000.000	1165.743	-16.6	108	0.00
24	T	2,4-Dimethylphenol	1000.000	1021.471	-2.1	96	0.00
25	T	Bis(2-chloroethoxy) methane	1000.000	1101.948	-10.2	109	0.00
26	T	Benzoic acid	2000.000	2143.149	-7.2	131	0.00
27	T	2,4-Dichlorophenol	1000.000	1152.764	-15.3	109	0.00
28	T	1,2,4-Trichlorobenzene	1000.000	1049.718	-5.0	104	0.00
29	T	Naphthalene	1000.000	1064.028	-6.4	105	0.00
30	T	4-Chloroaniline	1000.000	1182.098	-18.2	107	0.00
31	T	Hexachlorobutadiene	1000.000	1050.382	-5.0	106	0.00
32	T	4-Chloro-3-methylphenol	1000.000	1145.587	-14.6	111	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
33	T	2-Methylnaphthalene	1000.000	1131.322	-13.1	111	0.00
34	T	1-Methylnaphthalene	1000.000	1151.876	-15.2	115	0.00
35	I	Acenaphthene-d10 (ISTD)	2000.000	2000.000	0.0	106	0.00
36	T	Hexachlorocyclopentadiene	1000.000	1123.999	-12.4	112	0.00
37	T	2,4,6-Trichlorophenol	1000.000	1067.913	-6.8	105	0.00
38	T	2,4,5-Trichlorophenol	1000.000	1101.862	-10.2	111	0.00
39	T	1,1'-Biphenyl	1000.000	1083.657	-8.4	109	0.00
40	S	2-Fluorobiphenyl (Surr)	1000.000	1047.641	-4.8	107	0.00
41	T	2-Chloronaphthalene	1000.000	1070.551	-7.1	109	0.00
42	T	2-Nitroaniline	1000.000	1147.620	-14.8	114	0.00
43	T	2,6-Dimethylnaphthalene	1000.000	1090.694	-9.1	110	0.00
44	T	1,4-Dinitrobenzene	1000.000	1102.148	-10.2	113	0.00
45	T	Dimethyl phthalate	1000.000	1088.344	-8.8	109	0.00
46	T	1,3-Dinitrobenzene	1000.000	1090.531	-9.1	112	0.00
47	T	2,6-Dinitrotoluene	1000.000	1100.770	-10.1	112	0.00
48	T	1,2-Dinitrobenzene	1000.000	1097.993	-9.8	110	0.00
49	T	Acenaphthylene	1000.000	1124.206	-12.4	112	0.00
50	T	3-Nitroaniline	1000.000	1018.909	-1.9	105	0.00
51	T	Acenaphthene	1000.000	1062.838	-6.3	108	0.00
52	T	2,4-Dinitrophenol	1000.000	985.126	1.5	114	0.00
53	T	4-Nitrophenol	1000.000	1051.722	-5.2	104	0.00
54	T	2,4-Dinitrotoluene	1000.000	1057.786	-5.8	109	0.00
55	T	Dibenzofuran	1000.000	1053.846	-5.4	107	0.00
56	T	2,3,5,6-Tetrachlorophenol	1000.000	1085.616	-8.6	110	0.00
57	T	2,3,4,6-Tetrachlorophenol	1000.000	1084.072	-8.4	114	0.00
58	T	Diethyl phthalate	1000.000	1027.404	-2.7	102	0.00
59	T	2,3,5-Trimethylnaphthalene	1000.000	1075.293	-7.5	106	0.00
60	T	Fluorene	1000.000	1053.882	-5.4	105	0.00
61	T	4-Chlorophenyl phenyl ether	1000.000	1017.007	-1.7	106	0.00
62	T	4-Nitroaniline	1000.000	987.345	1.3	98	0.00
63	T	4,6-Dinitro-2-methylphenol	1000.000	1002.758	-0.3	111	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
64	I	Phenanthrene-d10 (ISTD)	2000.000	2000.000	0.0	101	0.00
65	T	N-Nitrosodiphenylamine	1000.000	1112.245	-11.2	102	0.00
66	T	Azobenzene (1,2-DPH)	1000.000	1093.438	-9.3	103	0.00
67	S	2,4,6-Tribromophenol (Surr)	1000.000	1114.450	-11.4	107	0.00
68	T	4-Bromophenyl phenyl ether	1000.000	1045.459	-4.5	104	0.00
69	T	Hexachlorobenzene	1000.000	1020.870	-2.1	104	0.00
70	T	Pentachlorophenol (PCP)	1000.000	1108.710	-10.9	107	0.00
71	T	Phenanthrene	1000.000	1058.611	-5.9	103	0.00
72	T	Anthracene	1000.000	1094.785	-9.5	103	0.00
73	T	Carbazole	1000.000	1041.548	-4.2	102	0.00
74	T	Di-n-butyl phthalate	1000.000	1059.402	-5.9	98	0.00
75	T	Fluoranthene	1000.000	1093.711	-9.4	101	0.01
76	T	Benzidine	2000.000	1830.363	8.5	90	0.01
77	T	Pyrene	1000.000	1099.147	-9.9	102	0.01
78	I	Chrysene-d12 (ISTD)	2000.000	2000.000	0.0	98	0.02
79	S	Terphenyl-d14 (Surr)	1000.000	1053.119	-5.3	97	0.01
80	T	Butyl benzyl phthalate	1000.000	1091.882	-9.2	101	0.02
81	T	Bis(2-ethylhexyl) adipate	1000.000	945.390	5.5	94	0.02
82	T	3,3-Dichlorobenzidine	2000.000	2016.552	-0.8	86	0.02
83	T	Benz(a)anthracene	1000.000	1019.743	-2.0	97	0.02
84	T	Chrysene	1000.000	1052.420	-5.2	100	0.02
85	T	Bis(2-ethylhexyl) phthalate	1000.000	1015.554	-1.6	97	0.02
86	I	Perylene-d12 (ISTD)	2000.000	2000.000	0.0	95	0.02
87	T	Di-n-octyl phthalate	1000.000	1020.608	-2.1	96	0.02
88	T	Benzo(b)fluoranthene	1000.000	1096.894	-9.7	100	0.02
89	T	Benzo(k)fluoranthene	1000.000	1082.648	-8.3	97	0.02
90	T	Benzo(b+k)fluoranthene	2000.000	2160.400	-8.0	98	0.02
91	T	Benzo(e)pyrene	1000.000	1120.077	-12.0	96	0.02
92	T	Benzo(a)pyrene	1000.000	1112.922	-11.3	98	0.02
93	T	Perylene	1000.000	1221.852	-22.2	112	0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
94	I	Dibenz(a,h)Anthrcene-d14 (I	2000.000	2000.000	0.0	93	0.02
95	T	Indeno(1,2,3-cd)pyrene	1000.000	1018.755	-1.9	97	0.02
96	T	Dibenz(a,h)anthracene	1000.000	1071.356	-7.1	98	0.02
97	T	Benzo(g,h,i)perylene	1000.000	1133.573	-13.4	96	0.02

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration

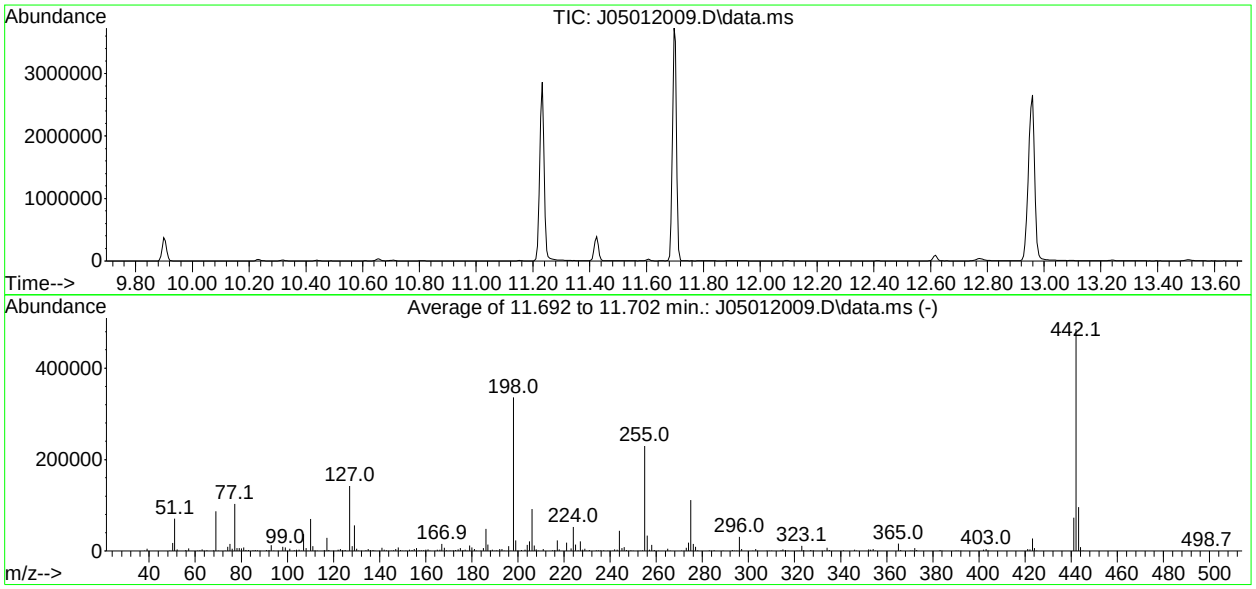
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.840	150	69799	2.00	ug/mL		0.00
2) Naphthalene-d8	8.113	136	175566	2.00	ug/mL		0.00
3) Acenaphthene-d10	9.900	162	88689	2.00	ug/mL		0.00
5) Phenanthrene-d10	11.424	188	159940	2.00	ug/mL		0.00
11) Chrysene-d12	15.275	240	139629	2.00	ug/mL		0.00
12) Perylene-d12	17.447	264	135213	2.00	ug/mL	#	0.00
Target Compounds							Qvalue
4) Pentachlorophenol	11.232	266	427848	51.09	ug/mL		81
6) DFTPP	11.702	442	617020	47.79	ug/mL	#	59
7) Benzidine	12.959	184	1772639	31.16	ug/mL		97
8) 4,4-DDE	13.237	TIC	15271	No Calib			
9) 4,4-DDD	13.804	TIC	7055	No Calib			
10) 4,4-DDT	14.425	TIC	5137621	31.32	ug/mL		94

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

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Mon May 04 10:56:48 2020



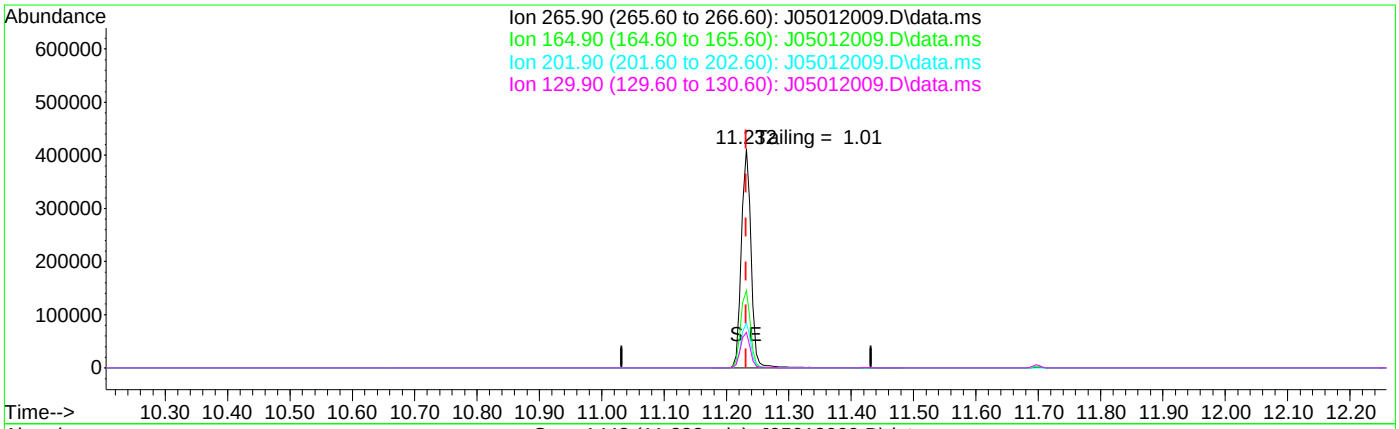
AutoFind: Scans 1534, 1535, 1536; Background Corrected with Scan 1530

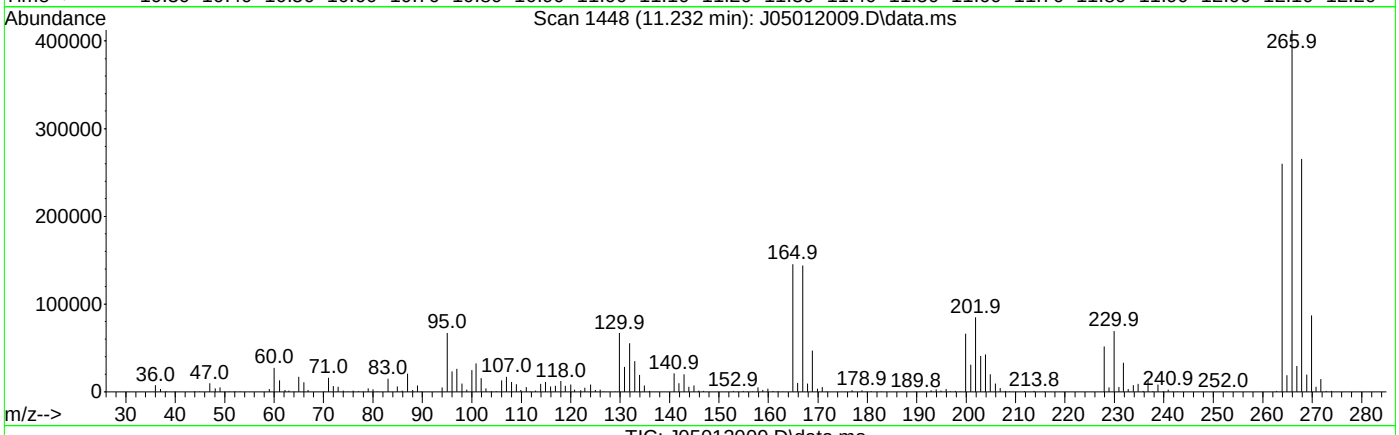
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	1306	PASS
69	198	0.01	100	25.8	86827	PASS
70	69	0.00	2	0.5	421	PASS
197	198	0.00	2	0.1	366	PASS
198	198	100	100	100.0	336363	PASS
199	198	5	9	6.8	22859	PASS
365	198	1	100	4.7	15719	PASS
441	443	0.01	150	75.9	72808	PASS
442	198	0.10	200	144.3	485227	PASS
443	442	15	24	19.8	95901	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration





TIC: J05012009.D\data.ms

(4) Pentachlorophenol

11.232min (0.000) 51.09 ug/mL

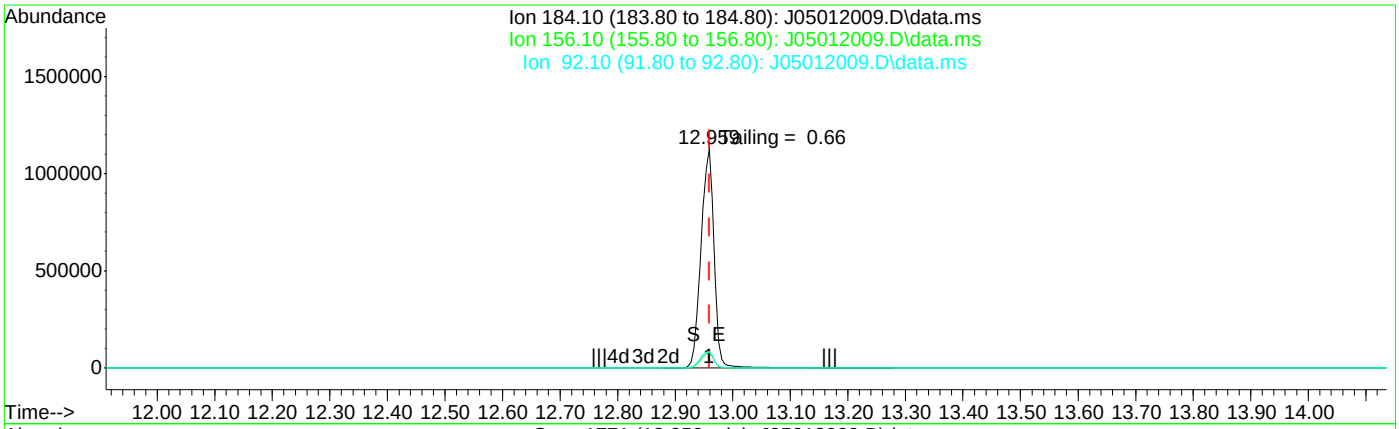
response 427848

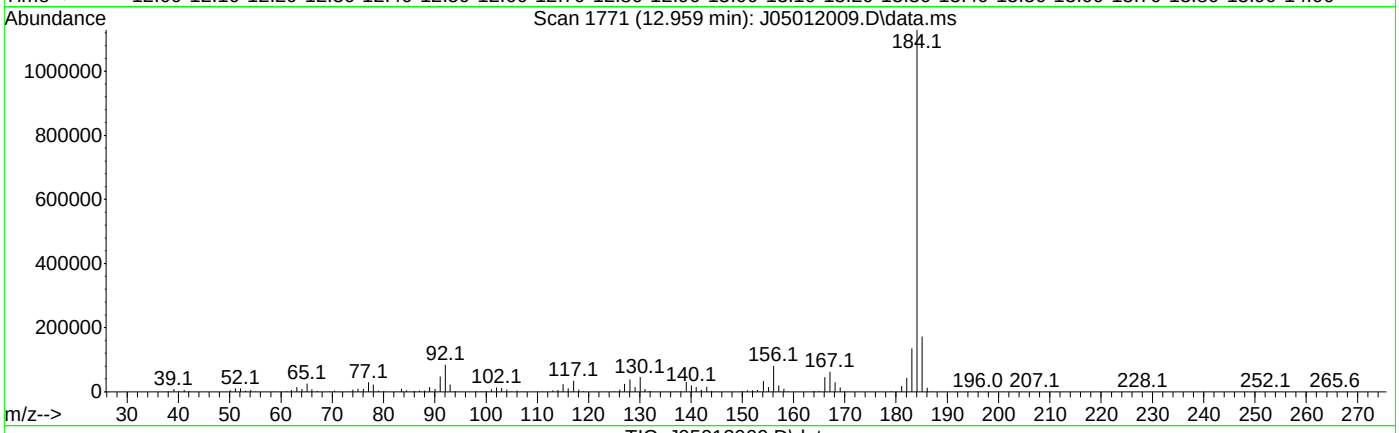
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	35.28
201.90	25.80	20.61
129.90	27.30	16.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration





TIC: J05012009.D\data.ms

(7) Benzidine

12.959min (0.000) 31.16 ug/mL

response 1772639

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.17
92.10	8.20	7.52
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
0E01048-TUN1
SV-GCMS10

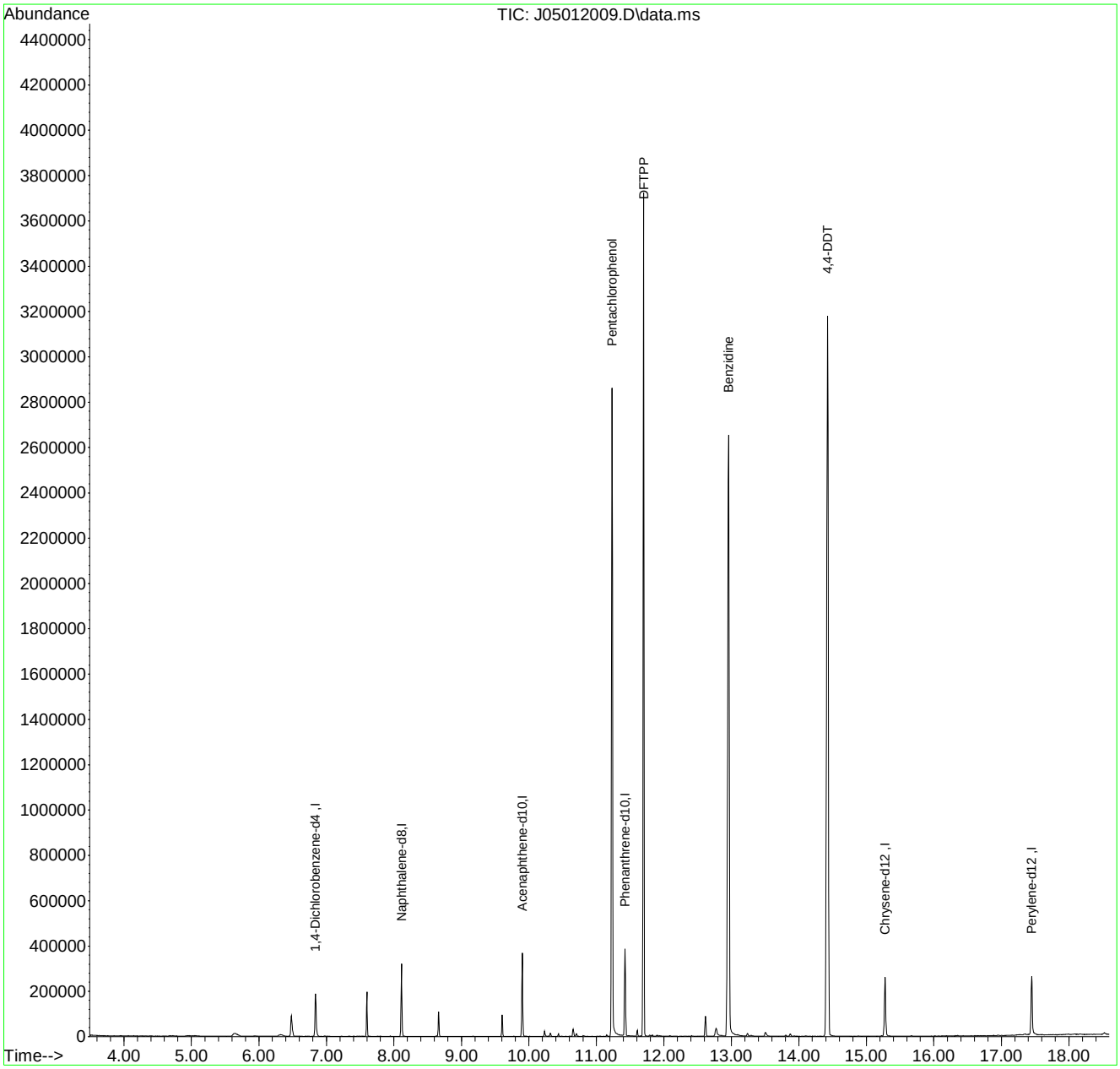
First Column Area Counts		Percent Breakdown	
DDE	15271		
DDD	7055		
DDT	5137621	**0.43**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012009.D
Acq On : 1 May 2020 2:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-TUN1
Misc : 1x, A20D411 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 10:56:58 2020
Quant Method : C:\msdchem\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Mon May 04 10:56:48 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	179871	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	675350	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	321385	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	563779	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	533766	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	511575	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	407232	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.477	94	75	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.969	108	62	22.23	ng/ml	78
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	0.000		0	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		
26) Benzoic acid	7.921	105	345	850.97	ng/ml#	42
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.574	163	60	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	9.873	138	80	20.21	ng/ml#	1
51) Acenaphthene	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	0.000		0	N.D.		
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	0.000		0	N.D.		
59) 2,3,5-Trimethylnaphtha...	10.397	170	65	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

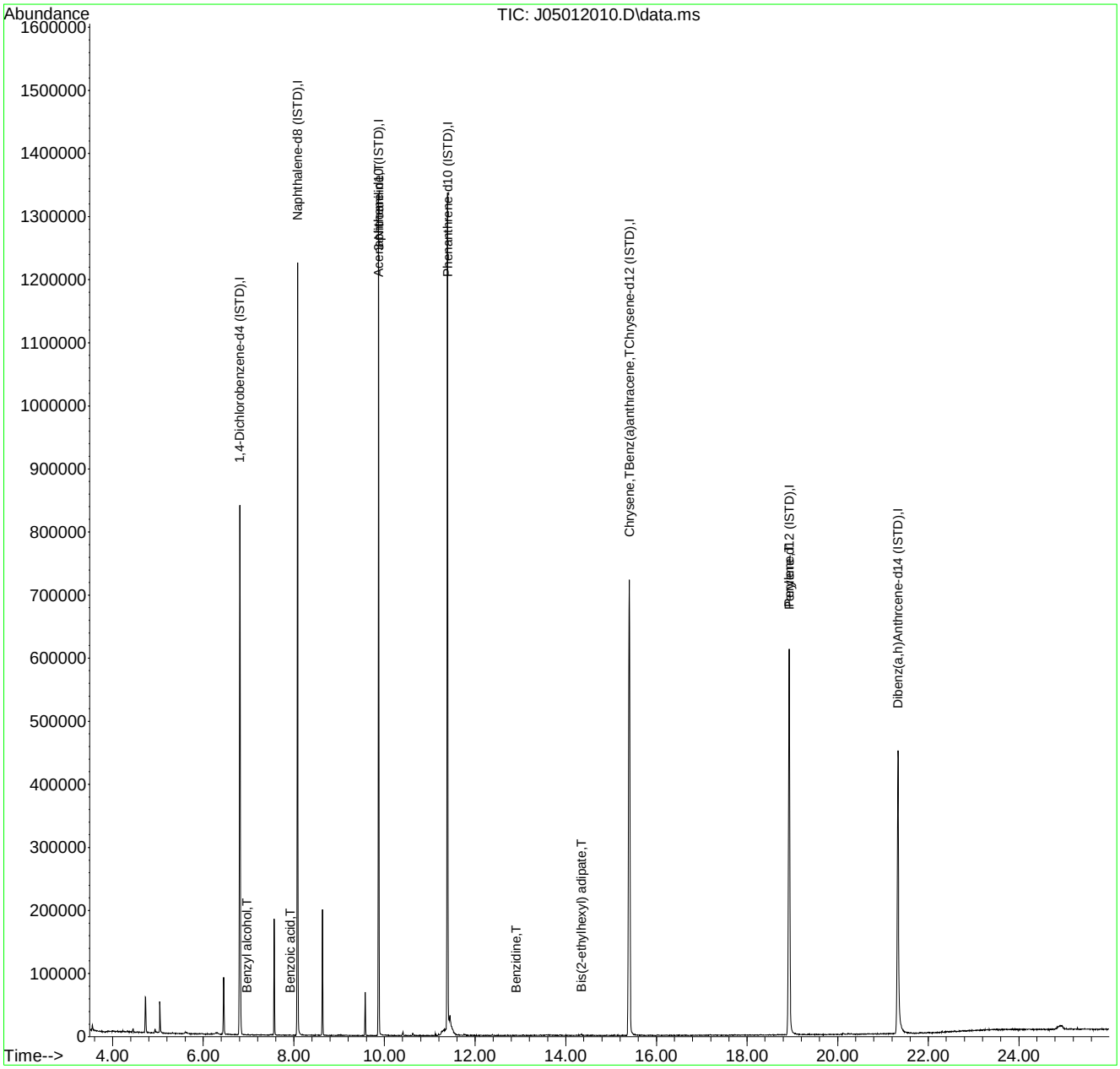
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	0.000		0	N.D.		
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.392	178	220	N.D.		
72) Anthracene	11.392	178	220	N.D.		
73) Carbazole	11.617	167	52	N.D.		
74) Di-n-butyl phthalate	11.965	149	60	N.D.		
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	12.901	184	647	49.93	ng/ml	83
77) Pyrene	13.056	202	52	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	14.345	129	649	63.94	ng/ml	90
82) 3,3-Dichlorobenzidine	15.345	252	70	Below Cal	#	27
83) Benz(a)anthracene	15.404	228	1337	4.43	ng/ml	74
84) Chrysene	15.404	228	1319	4.75	ng/ml	71
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.		
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.928	252	1783	7.28	ng/ml	75
95) Indeno(1,2,3-cd)pyrene	21.330	276	310	N.D.		
96) Dibenz(a,h)anthracene	21.325	278	100	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:00:11 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Final Requant

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	179871	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	675350	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	321385	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	563779	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	533766	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	511575	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	407232	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	0.000	112	0	0.00	ng/ml	
5) Phenol-d6(Surr)	0.000	99	0	0.00	ng/ml	
19) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
40) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
67) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
79) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
6) Phenol	6.477	94	75	N.D.		
7) Aniline	0.000		0	N.D.		
8) Bis(2-chloroethyl) ether	0.000		0	N.D.		
9) 2-Chlorophenol	0.000		0	N.D.		
10) 1,3-Dichlorobenzene	0.000		0	N.D.		
11) 1,4-Dichlorobenzene	0.000		0	N.D.		
12) Benzyl alcohol	6.969	108	62	9.58	ng/ml	78
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) 2-Methylphenol	0.000		0	N.D.		
15) 2,2'-Oxybis(1-Chloropr...	0.000		0	N.D.		
16) N-Nitrosodi-n-propylamine	0.000		0	N.D.		
17) 3+4-Methylphenol	0.000		0	N.D.		
18) Hexachloroethane	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
22) Isophorone	0.000		0	N.D.		
23) 2-Nitrophenol	0.000		0	N.D.		
24) 2,4-Dimethylphenol	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	0.000		0	N.D.		
26) Benzoic acid	7.921	105	345	736.85	ng/ml#	42
27) 2,4-Dichlorophenol	0.000		0	N.D.		
28) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
29) Naphthalene	0.000		0	N.D.		
30) 4-Chloroaniline	0.000		0	N.D.		
31) Hexachlorobutadiene	0.000		0	N.D.		
32) 4-Chloro-3-methylphenol	0.000		0	N.D.		
33) 2-Methylnaphthalene	0.000		0	N.D.		
34) 1-Methylnaphthalene	0.000		0	N.D.		
36) Hexachlorocyclopentadiene	0.000		0	N.D.		
37) 2,4,6-Trichlorophenol	0.000		0	N.D.		
38) 2,4,5-Trichlorophenol	0.000		0	N.D.		
39) 1,1'-Biphenyl	0.000		0	N.D.		
41) 2-Chloronaphthalene	0.000		0	N.D.		
42) 2-Nitroaniline	0.000		0	N.D.		
43) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
44) 1,4-Dinitrobenzene	0.000		0	N.D.		
45) Dimethyl phthalate	9.574	163	60	N.D.		
46) 1,3-Dinitrobenzene	0.000		0	N.D.		
47) 2,6-Dinitrotoluene	0.000		0	N.D.		
48) 1,2-Dinitrobenzene	0.000		0	N.D.		
49) Acenaphthylene	0.000		0	N.D.		
50) 3-Nitroaniline	9.873	138	80	26.35	ng/ml#	1
51) Acenaphthene	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	0.000		0	N.D.		
54) 2,4-Dinitrotoluene	0.000		0	N.D.		
55) Dibenzofuran	0.000		0	N.D.		
56) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
57) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
58) Diethyl phthalate	0.000		0	N.D.		
59) 2,3,5-Trimethylnaphtha...	10.397	170	65	N.D.		
60) Fluorene	0.000		0	N.D.		
61) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
62) 4-Nitroaniline	0.000		0	N.D.		
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

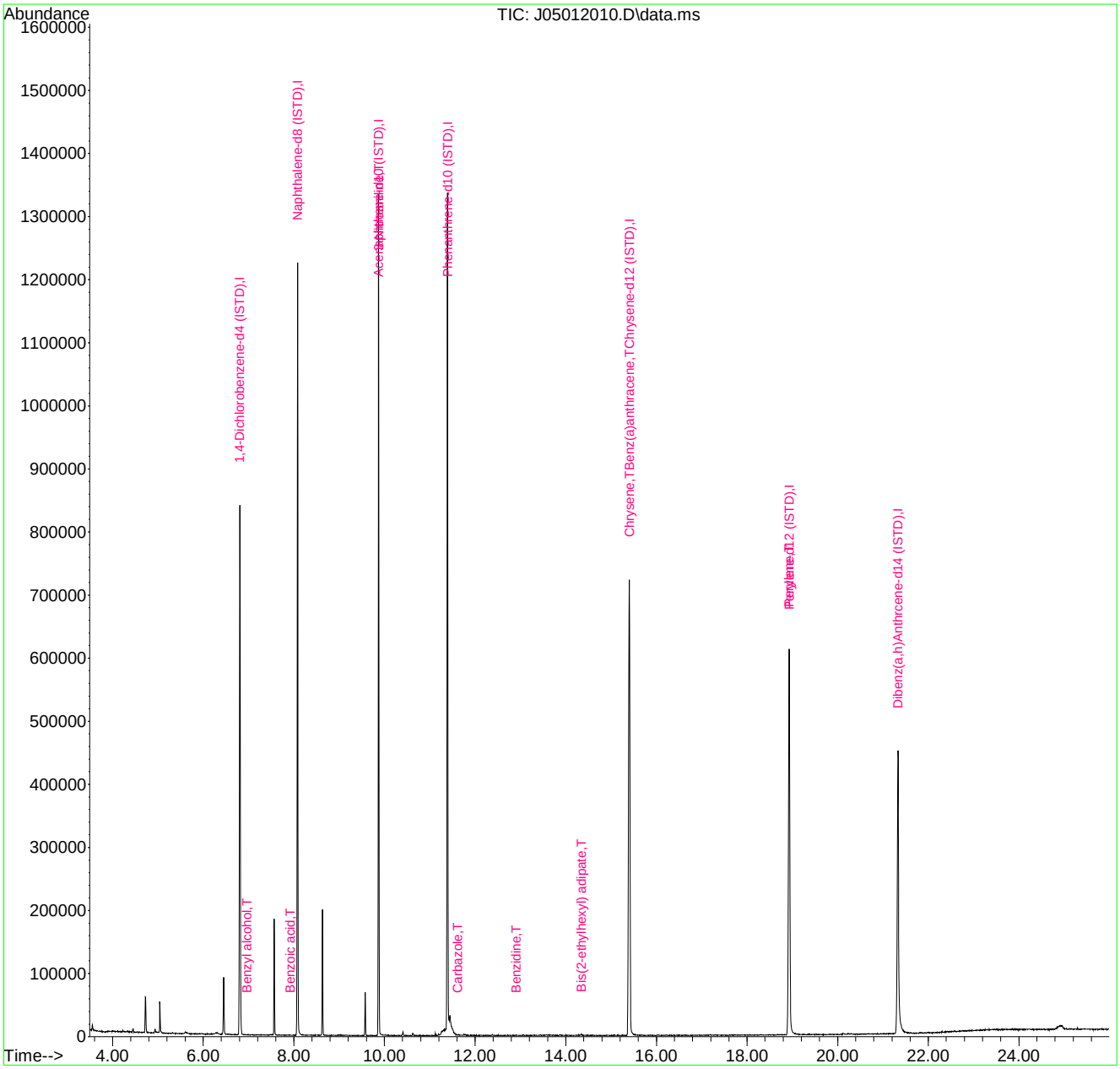
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	0.000		0	N.D.		
66) Azobenzene (1,2-DPH)	0.000		0	N.D.		
68) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
69) Hexachlorobenzene	0.000		0	N.D.		
70) Pentachlorophenol (PCP)	0.000		0	N.D.		
71) Phenanthrene	11.392	178	220	N.D.		
72) Anthracene	11.392	178	220	N.D.		
73) Carbazole	11.617	167	52	6.60	ng/ml	61
74) Di-n-butyl phthalate	11.965	149	60	N.D.		
75) Fluoranthene	0.000		0	N.D.		
76) Benzidine	12.901	184	647	139.95	ng/ml	83
77) Pyrene	13.056	202	52	N.D.		
80) Butyl benzyl phthalate	0.000		0	N.D.		
81) Bis(2-ethylhexyl) adipate	14.345	129	649	6.27	ng/ml	90
82) 3,3-Dichlorobenzidine	15.345	252	70	Below Cal #		27
83) Benz(a)anthracene	15.404	228	1337	4.42	ng/ml	74
84) Chrysene	15.404	228	1319	4.63	ng/ml	71
85) Bis(2-ethylhexyl) phth...	0.000		0	N.D.		
87) Di-n-octyl phthalate	0.000		0	N.D.		
88) Benzo(b)fluoranthene	0.000		0	N.D.		
89) Benzo(k)fluoranthene	0.000		0	N.D.		
90) Benzo(b+k)fluoranthene	0.000		0	N.D.		
91) Benzo(e)pyrene	0.000		0	N.D.		
92) Benzo(a)pyrene	0.000		0	N.D.		
93) Perylene	18.928	252	1783	7.23	ng/ml	75
95) Indeno(1,2,3-cd)pyrene	21.330	276	310	N.D.		
96) Dibenz(a,h)anthracene	21.325	278	100	N.D.		
97) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012010.D
Acq On : 1 May 2020 2:39 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 05 14:50:44 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	191864	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	731955	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	357685	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	601725	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	644210	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	635623	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.335	292	508993	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	1953	16.87	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	2369	17.49	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	1932	19.06	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	5848	21.92	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	445	41.30	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.275	244	4927	16.48	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.161	74	1056	14.57	ng/ml	78
3) Pyridine	0.000		0	N.D.		See MI
6) Phenol	6.445	94	2710	18.68	ng/ml	92
7) Aniline	6.482	93	2400	Below Cal		97
8) Bis(2-chloroethyl) ether	6.535	93	2449	17.27	ng/ml	93
9) 2-Chlorophenol	6.600	128	2275	18.17	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	3441	22.56	ng/ml	77
11) 1,4-Dichlorobenzene	6.824	146	3170	20.98	ng/ml	94
12) Benzyl alcohol	6.942	108	888	32.43	ng/ml	83
13) 1,2-Dichlorobenzene	6.979	146	2766	18.72	ng/ml	84
14) 2-Methylphenol	7.038	107	1790	19.37	ng/ml#	73
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	1973	20.41	ng/ml	94
16) N-Nitrosodi-n-propylamine	7.199	70	1290	18.23	ng/ml	88
17) 3+4-Methylphenol	7.188	107	1938	17.31	ng/ml	85
18) Hexachloroethane	7.322	201	928	18.85	ng/ml	93
20) Nitrobenzene	7.370	77	1961	19.61	ng/ml	79
22) Isophorone	7.611	82	3772	18.13	ng/ml	96
23) 2-Nitrophenol	7.696	139	743	42.71	ng/ml	64
24) 2,4-Dimethylphenol	7.723	122	1501	14.95	ng/ml	89

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	2531	18.65	ng/ml	87
26) Benzoic acid	7.915	105	423	851.80	ng/ml#	50
27) 2,4-Dichlorophenol	7.931	162	1526	41.09	ng/ml	84
28) 1,2,4-Trichlorobenzene	8.022	180	2793	22.09	ng/ml	90
29) Naphthalene	8.103	128	8211	21.64	ng/ml	99
30) 4-Chloroaniline	8.145	127	1892	25.33	ng/ml	79
31) Hexachlorobutadiene	8.231	225	1579	22.22	ng/ml	95
32) 4-Chloro-3-methylphenol	8.627	107	1075	37.23	ng/ml	76
33) 2-Methylnaphthalene	8.803	142	4968	18.77	ng/ml	95
34) 1-Methylnaphthalene	8.905	142	5104	20.54	ng/ml	96
36) Hexachlorocyclopentadiene	8.969	237	1207	30.19	ng/ml	96
37) 2,4,6-Trichlorophenol	9.087	196	759	41.44	ng/ml	96
38) 2,4,5-Trichlorophenol	9.124	198	819	41.67	ng/ml	76
39) 1,1'-Biphenyl	9.274	154	6111	21.19	ng/ml	95
41) 2-Chloronaphthalene	9.295	162	4995	22.58	ng/ml	95
42) 2-Nitroaniline	9.386	138	581	9.11	ng/ml	77
43) 2,6-Dimethylnaphthalene	9.434	156	4365	20.79	ng/ml	98
44) 1,4-Dinitrobenzene	9.515	168	221	72.55	ng/ml	77
45) Dimethyl phthalate	9.568	163	4603	18.65	ng/ml	90
46) 1,3-Dinitrobenzene	9.606	168	296	67.90	ng/ml	87
47) 2,6-Dinitrotoluene	9.632	165	551	37.44	ng/ml	92
48) 1,2-Dinitrobenzene	9.691	168	228	9.07	ng/ml#	17
49) Acenaphthylene	9.723	152	6575	19.15	ng/ml	97
50) 3-Nitroaniline	9.809	138	409	26.39	ng/ml#	60
51) Acenaphthene	9.900	153	4764	20.54	ng/ml	99
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.969	139	183	82.67	ng/ml#	42
54) 2,4-Dinitrotoluene	10.039	165	603	65.62	ng/ml	79
55) Dibenzofuran	10.076	168	6693	21.24	ng/ml	96
56) 2,3,5,6-Tetrachlorophenol	10.162	232	293	44.70	ng/ml	87
57) 2,3,4,6-Tetrachlorophenol	10.205	232	383	39.94	ng/ml#	50
58) Diethyl phthalate	10.285	149	4954	21.16	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	3993	20.73	ng/ml	93
60) Fluorene	10.424	166	4850	19.70	ng/ml	93
61) 4-Chlorophenyl phenyl ...	10.419	204	2587	21.24	ng/ml	93
62) 4-Nitroaniline	10.429	138	433	9.75	ng/ml	73
63) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

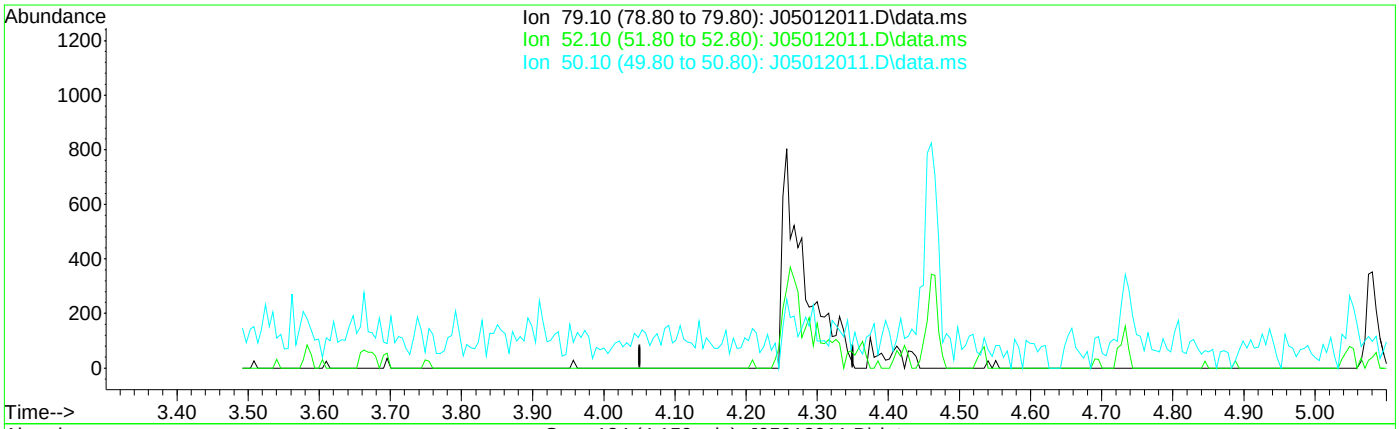
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	3338	18.50	ng/ml	91
66) Azobenzene (1,2-DPH)	10.579	77	3045	17.98	ng/ml	91
68) 4-Bromophenyl phenyl e...	10.921	248	1403	19.90	ng/ml	91
69) Hexachlorobenzene	11.002	284	2025	23.06	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	102	79.88	ng/ml	80
71) Phenanthrene	11.413	178	7531	22.73	ng/ml	98
72) Anthracene	11.462	178	6216	19.14	ng/ml	92
73) Carbazole	11.622	167	4414	16.68	ng/ml	90
74) Di-n-butyl phthalate	11.964	149	5086	14.64	ng/ml	97
75) Fluoranthene	12.740	202	5907	17.01	ng/ml	97
76) Benzidine	12.900	184	1586	64.17	ng/ml	84
77) Pyrene	13.055	202	6308	17.62	ng/ml	93
80) Butyl benzyl phthalate	14.157	149	1032	65.71	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.344	129	1334	67.92	ng/ml	92
82) 3,3-Dichlorobenzidine	15.339	252	2441	Below Cal		88
83) Benz(a)anthracene	15.382	228	7626	20.94	ng/ml	83
84) Chrysene	15.457	228	6450	19.24	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.543	149	1621	7.75	ng/ml	95
87) Di-n-octyl phthalate	17.222	149	1651	71.36	ng/ml	85
88) Benzo(b)fluoranthene	18.003	252	4506	23.47	ng/ml	94
89) Benzo(k)fluoranthene	18.067	252	4338	22.20	ng/ml	90
90) Benzo(b+k)fluoranthene	18.003	252	9446	45.72	ng/ml	92
91) Benzo(e)pyrene	18.661	252	4525	22.09	ng/ml	92
92) Benzo(a)pyrene	18.784	252	3486	24.53	ng/ml	92
93) Perylene	18.992	252	5620	18.48	ng/ml	97
95) Indeno(1,2,3-cd)pyrene	21.330	276	5874	19.49	ng/ml	51
96) Dibenz(a,h)anthracene	21.399	278	5072	18.83	ng/ml	97
97) Benzo(g,h,i)perylene	21.875	276	3952	21.66	ng/ml	86

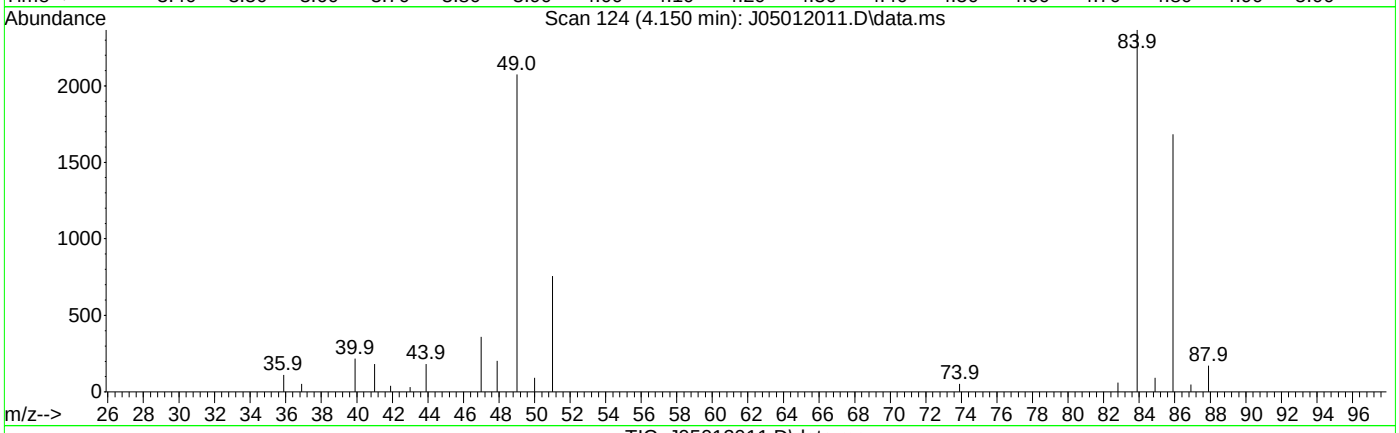
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012011.D\data.ms

(3) Pyridine (TG)

4.150min (-4.150) 0.00 ng/ml

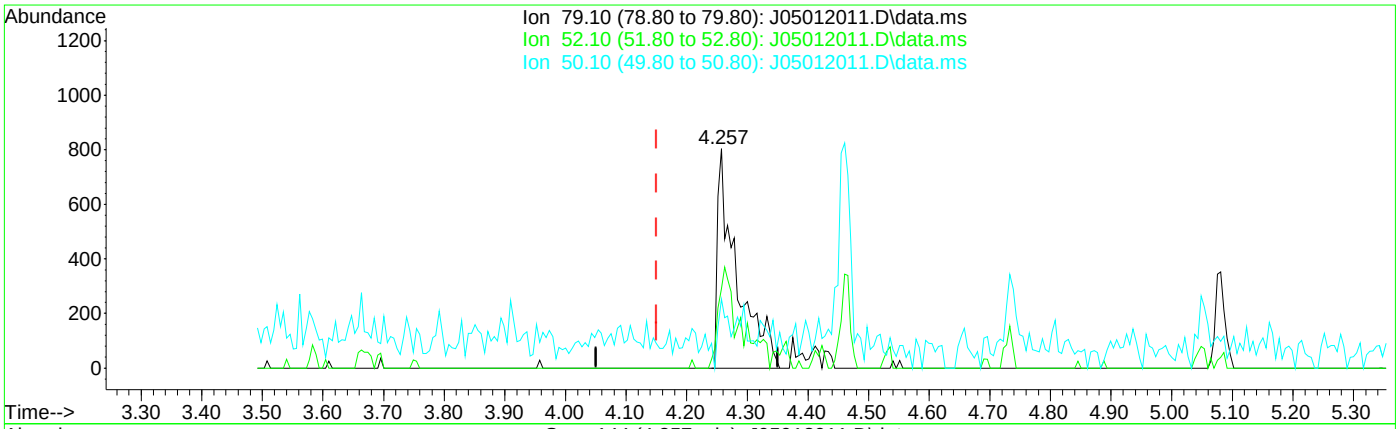
response 0

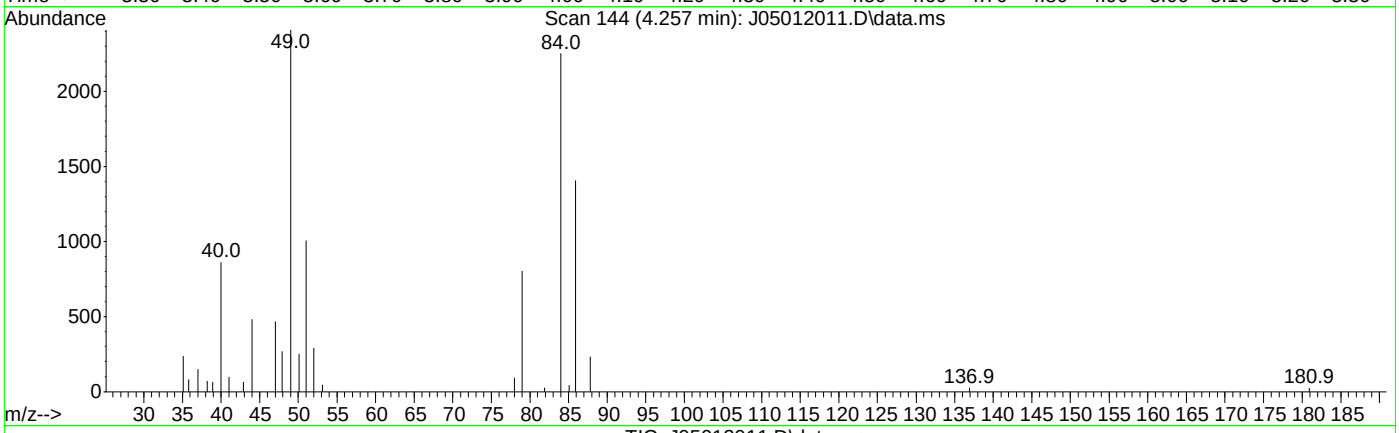
Ion	Exp%	Act%
79.10	100.00	0.00
52.10	46.80	0.00#
50.10	15.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012011.D\data.ms

(3) Pyridine (TG)

4.257min (+ 0.107) 24.29 ng/ml m

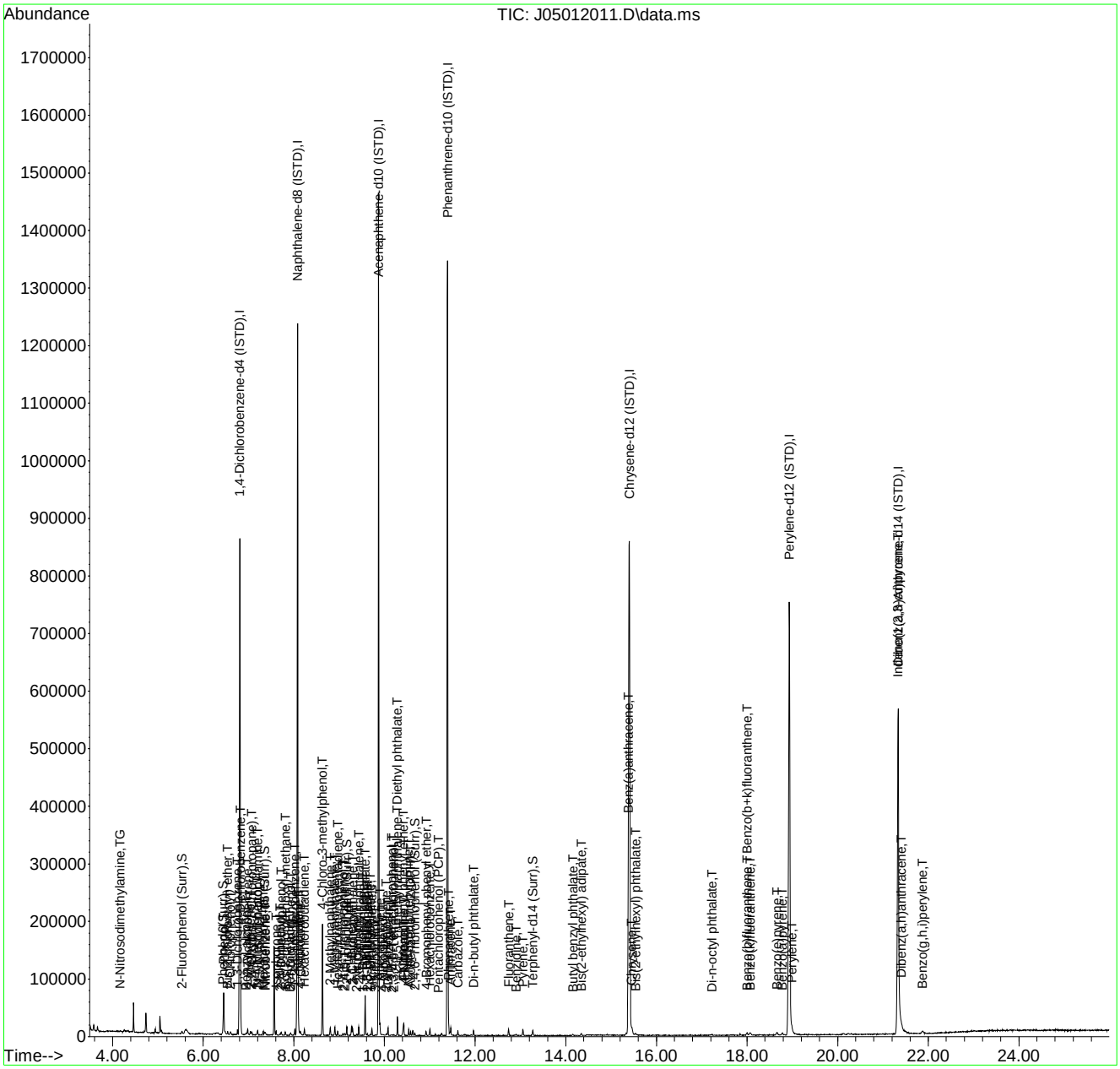
response 1772

Ion	Exp%	Act%
79.10	100.00	100.00
52.10	46.80	36.19
50.10	15.90	31.34
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012011.D
Acq On : 1 May 2020 3:16 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL1
Misc : 1x, A20D243@20
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:01:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	197701	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	717228	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	341194	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	575287	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.409	240	614670	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	623785	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.335	292	506876	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.535	112	5510	46.19	ng/ml	0.01
5) Phenol-d6(Surr)	6.434	99	6261	44.85	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	4906	46.97	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	14529	57.10	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	1336	66.61	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.275	244	13754	48.21	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.155	74	3161	42.32	ng/ml	90
3) Pyridine	4.230	79	4118	43.40	ng/ml	89
6) Phenol	6.445	94	5865	39.24	ng/ml	96
7) Aniline	6.487	93	6810	43.06	ng/ml	99
8) Bis(2-chloroethyl) ether	6.536	93	6507	44.53	ng/ml	88
9) 2-Chlorophenol	6.605	128	6059	46.95	ng/ml	93
10) 1,3-Dichlorobenzene	6.755	146	8367	53.24	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	8455	54.29	ng/ml	97
12) Benzyl alcohol	6.942	108	2430	50.68	ng/ml	92
13) 1,2-Dichlorobenzene	6.980	146	7982	52.42	ng/ml	96
14) 2-Methylphenol	7.044	107	4132	43.39	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	5484	55.05	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.199	70	3408	46.73	ng/ml	89
17) 3+4-Methylphenol	7.193	107	5177	44.87	ng/ml	90
18) Hexachloroethane	7.322	201	2852	56.22	ng/ml	86
20) Nitrobenzene	7.370	77	5092	49.42	ng/ml	97
22) Isophorone	7.605	82	9735	47.75	ng/ml	98
23) 2-Nitrophenol	7.696	139	1960	63.75	ng/ml	91
24) 2,4-Dimethylphenol	7.723	122	4417	44.91	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	6717	50.52	ng/ml	99
26) Benzoic acid	7.728	105	180	847.74	ng/ml#	1
27) 2,4-Dichlorophenol	7.932	162	4099	66.25	ng/ml	94
28) 1,2,4-Trichlorobenzene	8.023	180	6705	54.11	ng/ml	95
29) Naphthalene	8.103	128	21366	57.46	ng/ml	97
30) 4-Chloroaniline	8.146	127	5581	59.31	ng/ml	92
31) Hexachlorobutadiene	8.231	225	4330	62.18	ng/ml	94
32) 4-Chloro-3-methylphenol	8.627	107	3304	61.39	ng/ml	96
33) 2-Methylnaphthalene	8.803	142	13555	52.26	ng/ml	99
34) 1-Methylnaphthalene	8.905	142	12870	52.86	ng/ml	96
36) Hexachlorocyclopentadiene	8.969	237	3097	64.68	ng/ml	97
37) 2,4,6-Trichlorophenol	9.087	196	2246	63.92	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	2298	63.46	ng/ml	92
39) 1,1'-Biphenyl	9.274	154	15507	56.38	ng/ml	96
41) 2-Chloronaphthalene	9.295	162	11987	56.80	ng/ml	96
42) 2-Nitroaniline	9.392	138	1497	24.61	ng/ml#	60
43) 2,6-Dimethylnaphthalene	9.435	156	11180	55.82	ng/ml	96
44) 1,4-Dinitrobenzene	9.515	168	660	87.83	ng/ml#	51
45) Dimethyl phthalate	9.568	163	12248	52.02	ng/ml	97
46) 1,3-Dinitrobenzene	9.595	168	893	84.32	ng/ml	94
47) 2,6-Dinitrotoluene	9.632	165	1733	59.50	ng/ml	84
48) 1,2-Dinitrobenzene	9.686	168	779	32.48	ng/ml#	58
49) Acenaphthylene	9.723	152	17439	53.26	ng/ml	99
50) 3-Nitroaniline	9.809	138	1541	49.78	ng/ml	97
51) Acenaphthene	9.900	153	12562	56.78	ng/ml	96
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) 4-Nitrophenol	9.964	139	426	89.08	ng/ml	87
54) 2,4-Dinitrotoluene	10.044	165	1933	85.20	ng/ml	92
55) Dibenzofuran	10.076	168	15584	51.84	ng/ml	90
56) 2,3,5,6-Tetrachlorophenol	10.157	232	1097	61.18	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.199	232	1453	59.71	ng/ml	97
58) Diethyl phthalate	10.285	149	12841	57.51	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.285	170	9734	52.99	ng/ml	95
60) Fluorene	10.424	166	11179	47.61	ng/ml	92
61) 4-Chlorophenyl phenyl ...	10.419	204	6122	52.70	ng/ml	99
62) 4-Nitroaniline	10.429	138	1234	29.14	ng/ml	70
63) 4,6-Dinitro-2-methylph...	10.461	198	137	148.38	ng/ml	67

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

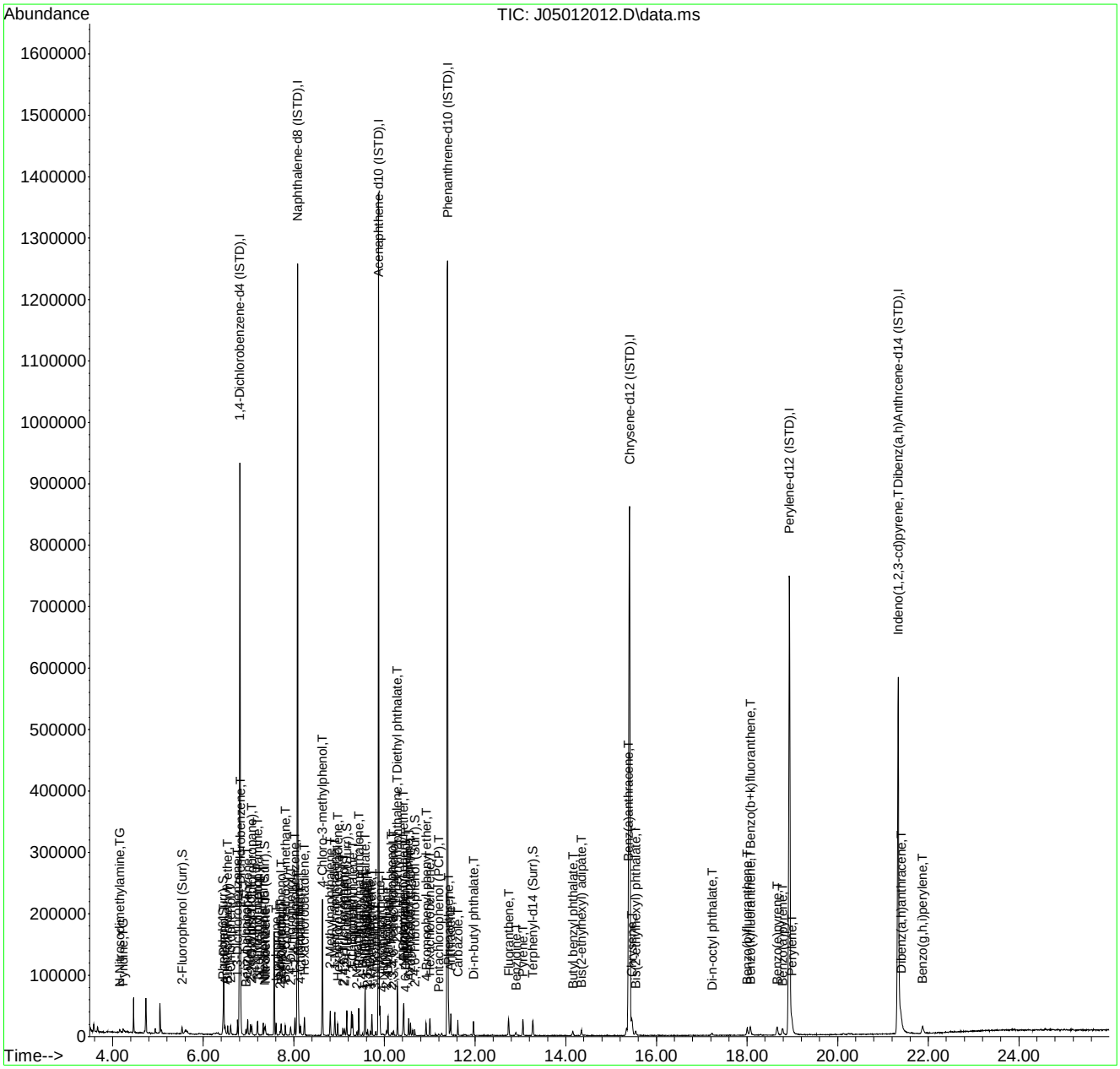
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	8596	49.83	ng/ml	91
66) Azobenzene (1,2-DPH)	10.579	77	8356	51.60	ng/ml	95
68) 4-Bromophenyl phenyl e...	10.921	248	3567	52.93	ng/ml	88
69) Hexachlorobenzene	11.002	284	5084	60.56	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	552	92.72	ng/ml#	37
71) Phenanthrene	11.414	178	17339	54.73	ng/ml	98
72) Anthracene	11.462	178	15713	50.61	ng/ml	97
73) Carbazole	11.622	167	12342	48.80	ng/ml	97
74) Di-n-butyl phthalate	11.964	149	13365	40.23	ng/ml	97
75) Fluoranthene	12.740	202	15666	47.18	ng/ml	96
76) Benzidine	12.900	184	3900	103.87	ng/ml	94
77) Pyrene	13.056	202	16274	47.54	ng/ml	95
80) Butyl benzyl phthalate	14.157	149	3054	79.33	ng/ml	87
81) Bis(2-ethylhexyl) adipate	14.345	129	3128	81.95	ng/ml	92
82) 3,3-Dichlorobenzidine	15.345	252	6397	Below Cal		95
83) Benz(a)anthracene	15.382	228	16598	47.76	ng/ml	97
84) Chrysene	15.462	228	16614	51.93	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.543	149	3824	19.17	ng/ml	95
87) Di-n-octyl phthalate	17.227	149	4377	78.55	ng/ml	95
88) Benzo(b)fluoranthene	18.008	252	11950	45.98	ng/ml	90
89) Benzo(k)fluoranthene	18.073	252	11834	43.65	ng/ml	93
90) Benzo(b+k)fluoranthene	18.073	252	25594	91.71	ng/ml	93
91) Benzo(e)pyrene	18.666	252	12046	45.13	ng/ml	93
92) Benzo(a)pyrene	18.789	252	9823	47.20	ng/ml	92
93) Perylene	18.993	252	14498	48.57	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.335	276	14434	48.10	ng/ml	94
96) Dibenz(a,h)anthracene	21.405	278	12714	47.39	ng/ml	90
97) Benzo(g,h,i)perylene	21.875	276	11357	46.01	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012012.D
Acq On : 1 May 2020 3:53 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL2
Misc : 1x, A20D244@50
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:03:04 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.803	152	191183	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	719013	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	355600	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	645096	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	665942	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.928	264	641096	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.325	292	525064	2000.00	ng/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	10683	92.61	ng/ml	0.00
5) Phenol-d6(Surr)	6.429	99	12550	92.96	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	10384	102.80	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	31404	118.41	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.676	330	3853	124.83	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	33303	107.73	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.113	74	6960	96.36	ng/ml	90
3) Pyridine	4.172	79	9290	89.12	ng/ml	97
6) Phenol	6.445	94	12267	84.86	ng/ml	95
7) Aniline	6.477	93	13261	115.38	ng/ml	95
8) Bis(2-chloroethyl) ether	6.536	93	12128	85.83	ng/ml	96
9) 2-Chlorophenol	6.600	128	12387	99.26	ng/ml	94
10) 1,3-Dichlorobenzene	6.755	146	16686	109.79	ng/ml	98
11) 1,4-Dichlorobenzene	6.819	146	16022	106.39	ng/ml	92
12) Benzyl alcohol	6.931	108	5492	89.80	ng/ml	94
13) 1,2-Dichlorobenzene	6.974	146	15557	105.66	ng/ml	97
14) 2-Methylphenol	7.038	107	9064	98.43	ng/ml	96
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	10763	111.73	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.194	70	7313	103.69	ng/ml	93
17) 3+4-Methylphenol	7.188	107	11824	105.98	ng/ml	97
18) Hexachloroethane	7.317	201	5625	114.66	ng/ml	99
20) Nitrobenzene	7.370	77	11151	111.91	ng/ml	90
22) Isophorone	7.605	82	21958	107.44	ng/ml	95
23) 2-Nitrophenol	7.691	139	5456	123.08	ng/ml	93
24) 2,4-Dimethylphenol	7.723	122	9568	97.04	ng/ml	88

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	13856	103.95	ng/ml	91
26) Benzoic acid	7.803	105	106	846.45	ng/ml	85
27) 2,4-Dichlorophenol	7.932	162	9523	118.42	ng/ml	96
28) 1,2,4-Trichlorobenzene	8.023	180	13851	111.50	ng/ml	99
29) Naphthalene	8.103	128	41691	111.84	ng/ml	98
30) 4-Chloroaniline	8.146	127	11760	116.18	ng/ml	99
31) Hexachlorobutadiene	8.231	225	8263	118.37	ng/ml	96
32) 4-Chloro-3-methylphenol	8.627	107	7712	108.46	ng/ml	94
33) 2-Methylnaphthalene	8.803	142	28255	108.66	ng/ml	95
34) 1-Methylnaphthalene	8.905	142	27373	112.15	ng/ml	96
36) Hexachlorocyclopentadiene	8.969	237	6851	126.21	ng/ml	97
37) 2,4,6-Trichlorophenol	9.082	196	6196	118.50	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	5978	112.87	ng/ml	95
39) 1,1'-Biphenyl	9.274	154	33925	118.34	ng/ml	96
41) 2-Chloronaphthalene	9.296	162	26139	118.85	ng/ml	98
42) 2-Nitroaniline	9.392	138	4785	75.47	ng/ml	96
43) 2,6-Dimethylnaphthalene	9.435	156	23962	114.78	ng/ml	99
44) 1,4-Dinitrobenzene	9.515	168	1916	127.86	ng/ml	94
45) Dimethyl phthalate	9.568	163	27818	113.35	ng/ml	93
46) 1,3-Dinitrobenzene	9.600	168	2780	132.01	ng/ml	93
47) 2,6-Dinitrotoluene	9.633	165	4956	114.73	ng/ml	98
48) 1,2-Dinitrobenzene	9.691	168	2197	87.91	ng/ml	98
49) Acenaphthylene	9.723	152	38044	111.47	ng/ml	99
50) 3-Nitroaniline	9.809	138	4153	100.08	ng/ml	93
51) Acenaphthene	9.900	153	25073	108.74	ng/ml	96
52) 2,4-Dinitrophenol	9.921	184	186	190.58	ng/ml#	48
53) 4-Nitrophenol	9.964	139	1906	124.83	ng/ml	98
54) 2,4-Dinitrotoluene	10.044	165	4977	126.20	ng/ml	94
55) Dibenzofuran	10.076	168	35418	113.05	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	10.157	232	3387	104.49	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	10.199	232	4311	108.43	ng/ml	89
58) Diethyl phthalate	10.290	149	27495	118.14	ng/ml	96
59) 2,3,5-Trimethylnaphtha...	10.285	170	21856	114.15	ng/ml	100
60) Fluorene	10.429	166	27734	113.33	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.419	204	14011	115.72	ng/ml	91
62) 4-Nitroaniline	10.429	138	3272	74.14	ng/ml	85
63) 4,6-Dinitro-2-methylph...	10.462	198	765	174.23	ng/ml	68

See MF

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

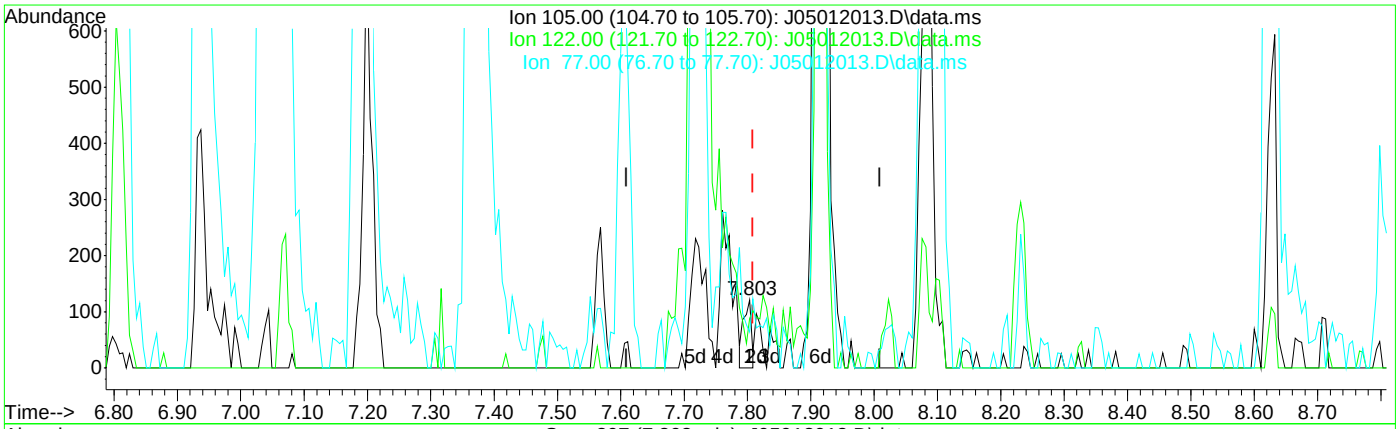
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	21618	111.75	ng/ml	98
66) Azobenzene (1,2-DPH)	10.579	77	19007	104.66	ng/ml	99
68) 4-Bromophenyl phenyl e...	10.922	248	8166	108.06	ng/ml	94
69) Hexachlorobenzene	11.002	284	11614	123.37	ng/ml	97
70) Pentachlorophenol (PCP)	11.194	266	2358	136.42	ng/ml	95
71) Phenanthrene	11.414	178	39573	111.39	ng/ml	99
72) Anthracene	11.462	178	37735	108.39	ng/ml	98
73) Carbazole	11.622	167	29809	105.10	ng/ml	98
74) Di-n-butyl phthalate	11.965	149	33644	90.31	ng/ml	99
75) Fluoranthene	12.740	202	38512	103.43	ng/ml	96
76) Benzidine	12.901	184	10676	197.83	ng/ml	96
77) Pyrene	13.056	202	40211	104.76	ng/ml	99
80) Butyl benzyl phthalate	14.152	149	8439	110.48	ng/ml	92
81) Bis(2-ethylhexyl) adipate	14.345	129	7943	113.71	ng/ml	88
82) 3,3-Dichlorobenzidine	15.334	252	16151	57.52	ng/ml	94
83) Benz(a)anthracene	15.377	228	36118	95.93	ng/ml	93
84) Chrysene	15.457	228	35070	101.18	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.543	149	10710	49.56	ng/ml	92
87) Di-n-octyl phthalate	17.222	149	11376	95.99	ng/ml	96
88) Benzo(b)fluoranthene	18.003	252	28427	92.87	ng/ml	96
89) Benzo(k)fluoranthene	18.067	252	29681	91.95	ng/ml	96
90) Benzo(b+k)fluoranthene	18.067	252	61380	187.83	ng/ml	96
91) Benzo(e)pyrene	18.661	252	29328	95.06	ng/ml	99
92) Benzo(a)pyrene	18.784	252	22302	89.22	ng/ml	97
93) Perylene	18.987	252	31802	103.66	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.325	276	29561	95.10	ng/ml	99
96) Dibenz(a,h)anthracene	21.394	278	27359	98.44	ng/ml	93
97) Benzo(g,h,i)perylene	21.870	276	27334	95.33	ng/ml	93

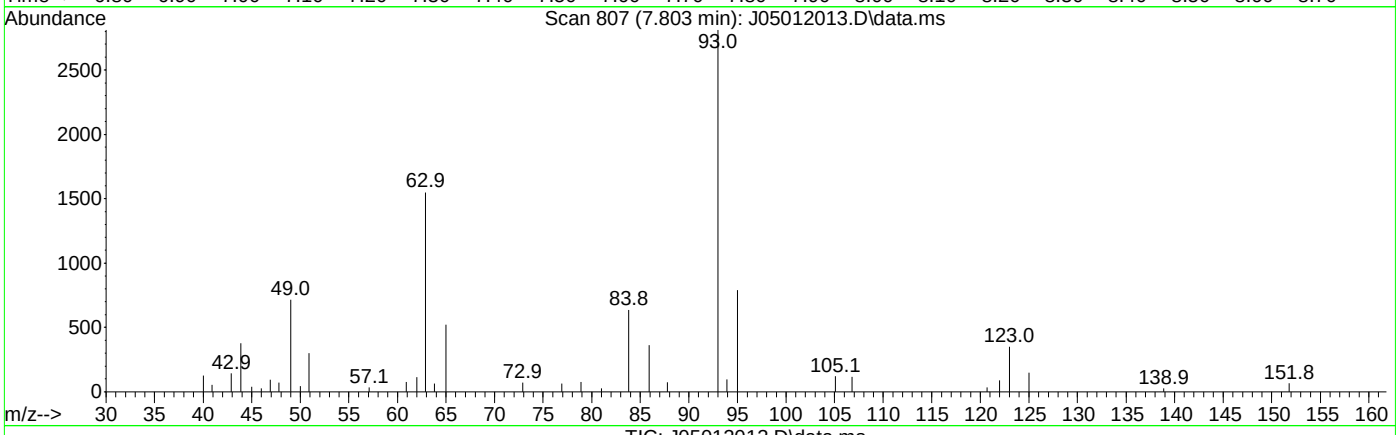
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012013.D\data.ms

(26) Benzoic acid (T)

7.803min (-0.005) 846.45 ng/ml

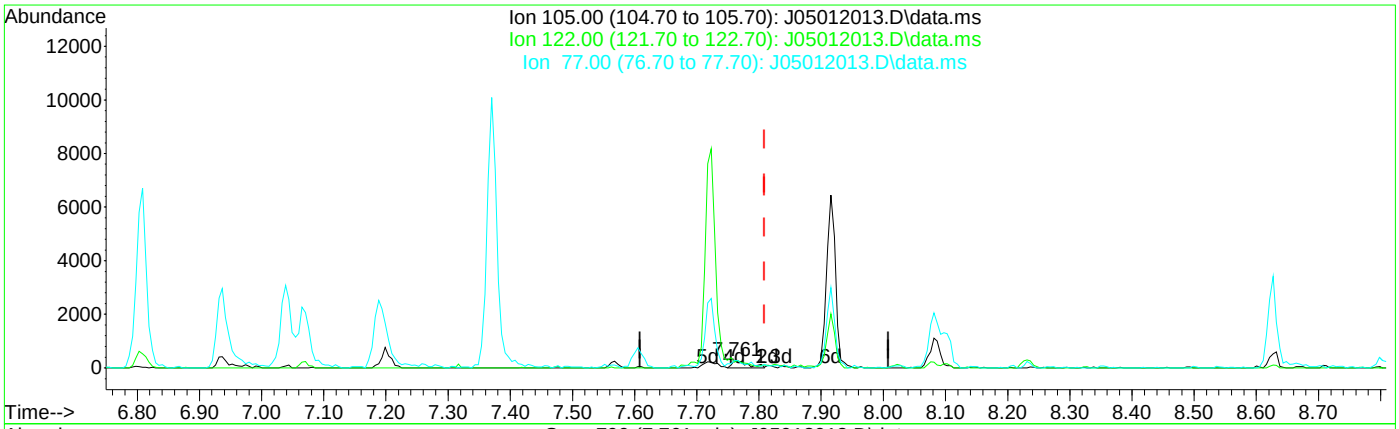
response 106

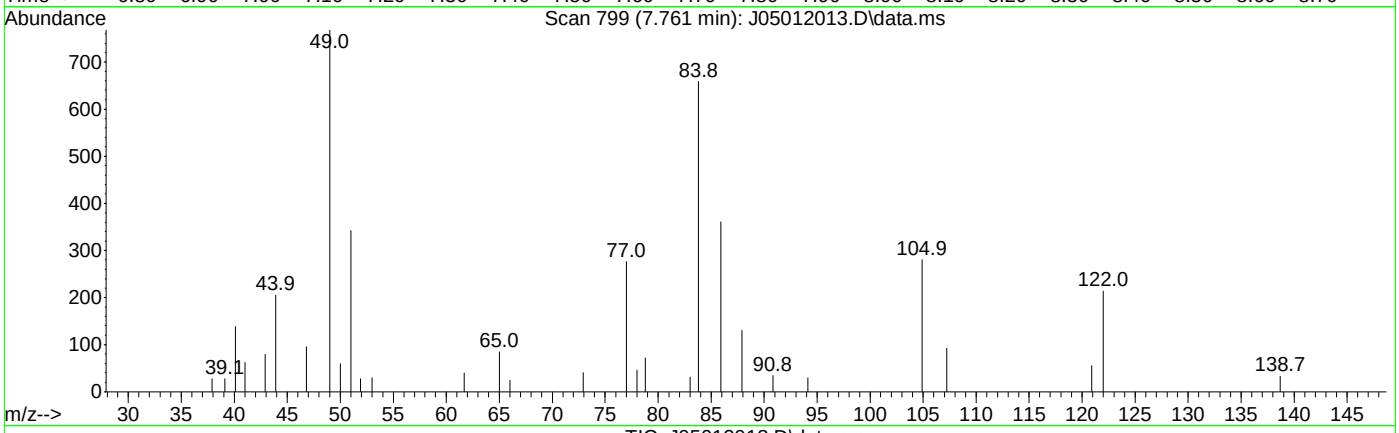
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	72.73
77.00	61.50	52.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012013.D\data.ms

(26) Benzoic acid (T)

7.761min (-0.048) 852.72 ng/ml m

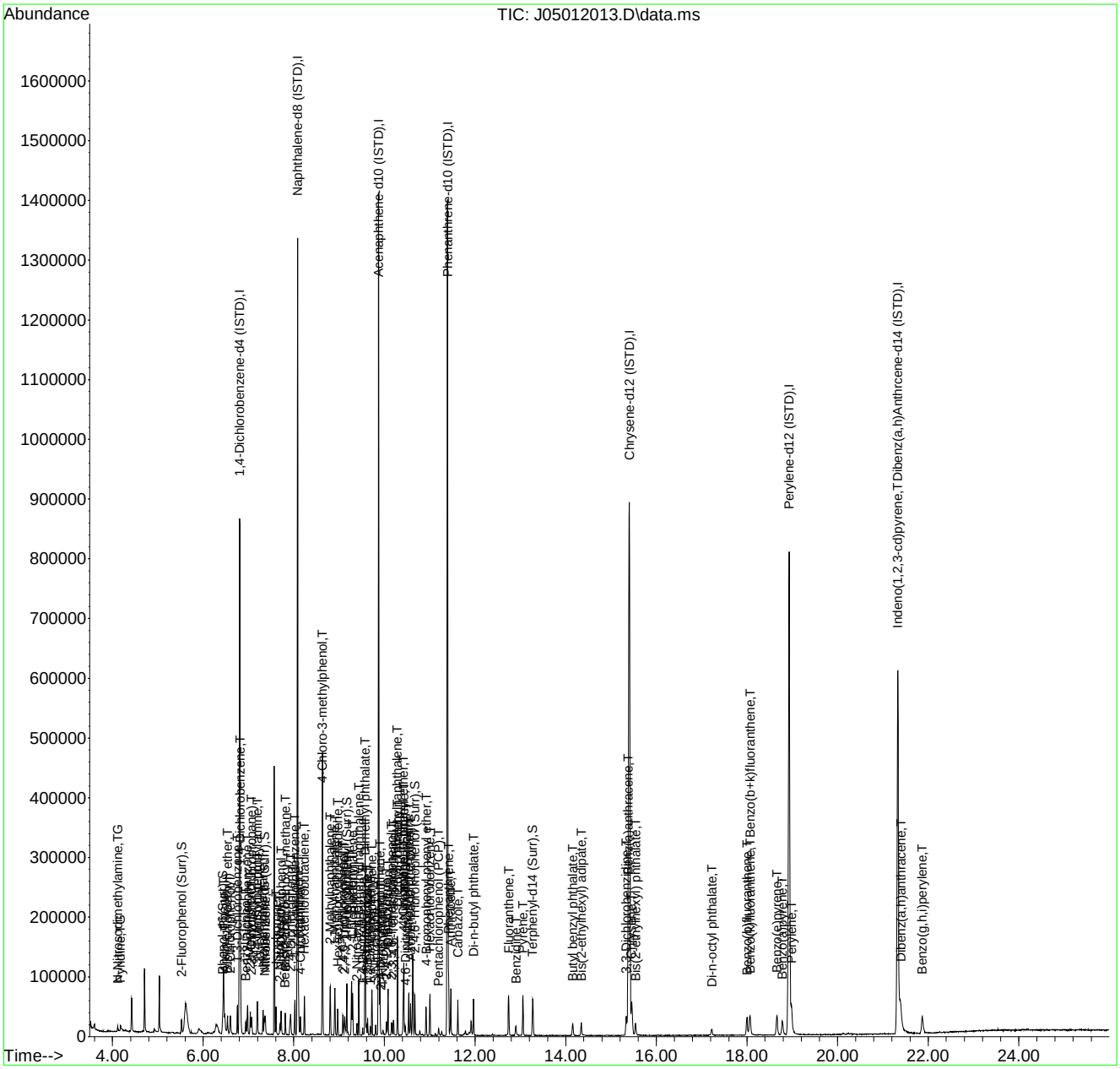
response 469

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	76.16
77.00	61.50	98.58#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012013.D
Acq On : 1 May 2020 6:15 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL3
Misc : 1x, A20D245@100
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:04:06 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	181235	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	692848	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	347809	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	635167	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.398	240	656760	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	635068	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	528573	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	21141	193.32	ng/ml	0.00
5) Phenol-d6(Surr)	6.429	99	26007	203.22	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.348	82	21119	220.55	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	60557	233.45	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	8155	233.77	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.269	244	66177	217.07	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	13019	190.15	ng/ml	93
3) Pyridine	4.166	79	20881	198.57	ng/ml	94
6) Phenol	6.445	94	29567	215.77	ng/ml	93
7) Aniline	6.482	93	27397	285.70	ng/ml	97
8) Bis(2-chloroethyl) ether	6.535	93	24922	186.05	ng/ml	91
9) 2-Chlorophenol	6.600	128	24400	206.26	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	30392	210.94	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	29528	206.84	ng/ml	99
12) Benzyl alcohol	6.937	108	11440	171.65	ng/ml	81
13) 1,2-Dichlorobenzene	6.979	146	30294	217.04	ng/ml	98
14) 2-Methylphenol	7.038	107	18182	208.27	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	20415	223.55	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.193	70	15112	226.03	ng/ml	96
17) 3+4-Methylphenol	7.188	107	23011	217.57	ng/ml	93
18) Hexachloroethane	7.316	201	10331	222.14	ng/ml	99
20) Nitrobenzene	7.370	77	20957	221.86	ng/ml	98
22) Isophorone	7.605	82	42630	216.46	ng/ml	96
23) 2-Nitrophenol	7.691	139	11238	228.09	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	20813	219.06	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	26612	207.18	ng/ml	97
26) Benzoic acid	7.825	105	208	848.35	ng/ml#See M	62
27) 2,4-Dichlorophenol	7.931	162	19883	225.49	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.022	180	27062	226.07	ng/ml	98
29) Naphthalene	8.103	128	81565	227.06	ng/ml	98
30) 4-Chloroaniline	8.145	127	24483	245.88	ng/ml	95
31) Hexachlorobutadiene	8.231	225	16461	244.71	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	16620	210.33	ng/ml	98
33) 2-Methylnaphthalene	8.798	142	55698	222.28	ng/ml	97
34) 1-Methylnaphthalene	8.900	142	51095	217.24	ng/ml	97
36) Hexachlorocyclopentadiene	8.969	237	13997	252.46	ng/ml	98
37) 2,4,6-Trichlorophenol	9.081	196	12664	214.01	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	12930	212.79	ng/ml	94
39) 1,1'-Biphenyl	9.269	154	64137	228.74	ng/ml	98
41) 2-Chloronaphthalene	9.295	162	50017	232.51	ng/ml	98
42) 2-Nitroaniline	9.392	138	10206	164.59	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.434	156	47338	231.84	ng/ml	98
44) 1,4-Dinitrobenzene	9.520	168	4549	216.60	ng/ml	96
45) Dimethyl phthalate	9.568	163	55476	231.12	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	5993	218.24	ng/ml	97
47) 2,6-Dinitrotoluene	9.632	165	10708	219.81	ng/ml	91
48) 1,2-Dinitrobenzene	9.686	168	4556	186.38	ng/ml	76
49) Acenaphthylene	9.723	152	75817	227.13	ng/ml	99
50) 3-Nitroaniline	9.803	138	9251	207.83	ng/ml	92
51) Acenaphthene	9.900	153	50397	223.46	ng/ml	98
52) 2,4-Dinitrophenol	9.910	184	590	227.44	ng/ml	70
53) 4-Nitrophenol	9.964	139	4625	193.69	ng/ml	88
54) 2,4-Dinitrotoluene	10.044	165	11730	223.29	ng/ml	90
55) Dibenzofuran	10.076	168	69462	226.68	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.151	232	8629	208.84	ng/ml	92
57) 2,3,4,6-Tetrachlorophenol	10.199	232	10787	225.14	ng/ml	94
58) Diethyl phthalate	10.285	149	53766	236.20	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	44649	238.42	ng/ml	99
60) Fluorene	10.424	166	55055	230.01	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	27516	232.35	ng/ml	98
62) 4-Nitroaniline	10.429	138	7453	172.66	ng/ml	90
63) 4,6-Dinitro-2-methylph...	10.461	198	2570	250.82	ng/ml	82

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

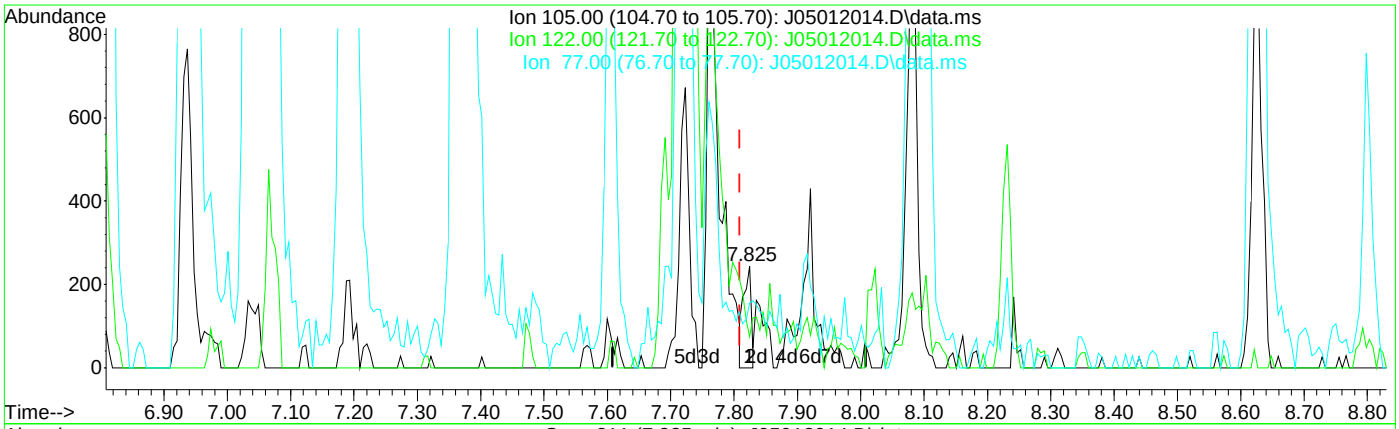
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	44173	231.91	ng/ml	98
66) Azobenzene (1,2-DPH)	10.579	77	39378	220.23	ng/ml	99
68) 4-Bromophenyl phenyl e...	10.916	248	16553	222.46	ng/ml	96
69) Hexachlorobenzene	11.002	284	22342	241.05	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	5400	214.48	ng/ml	94
71) Phenanthrene	11.413	178	78539	224.53	ng/ml	98
72) Anthracene	11.462	178	76033	221.81	ng/ml	97
73) Carbazole	11.622	167	61914	221.71	ng/ml	98
74) Di-n-butyl phthalate	11.964	149	70740	192.85	ng/ml	100
75) Fluoranthene	12.740	202	81473	222.23	ng/ml	94
76) Benzidine	12.900	184	32317	531.99	ng/ml	98
77) Pyrene	13.055	202	83478	220.88	ng/ml	99
80) Butyl benzyl phthalate	14.157	149	19934	181.86	ng/ml	98
81) Bis(2-ethylhexyl) adipate	14.339	129	18549	189.41	ng/ml	99
82) 3,3-Dichlorobenzidine	15.334	252	34852	769.61	ng/ml	94
83) Benz(a)anthracene	15.371	228	74103	199.57	ng/ml	98
84) Chrysene	15.457	228	73042	213.67	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.543	149	28975	135.96	ng/ml	97
87) Di-n-octyl phthalate	17.227	149	29855	143.58	ng/ml	99
88) Benzo(b)fluoranthene	17.998	252	62932	194.42	ng/ml	98
89) Benzo(k)fluoranthene	18.067	252	65220	191.90	ng/ml	96
90) Benzo(b+k)fluoranthene	18.067	252	134512	391.59	ng/ml	96
91) Benzo(e)pyrene	18.656	252	64740	201.08	ng/ml	97
92) Benzo(a)pyrene	18.779	252	51841	192.35	ng/ml	99
93) Perylene	18.982	252	62205	204.69	ng/ml	97
95) Indeno(1,2,3-cd)pyrene	21.324	276	58782	187.86	ng/ml	95
96) Dibenz(a,h)anthracene	21.394	278	57576	205.79	ng/ml	97
97) Benzo(g,h,i)perylene	21.870	276	58466	192.80	ng/ml	96

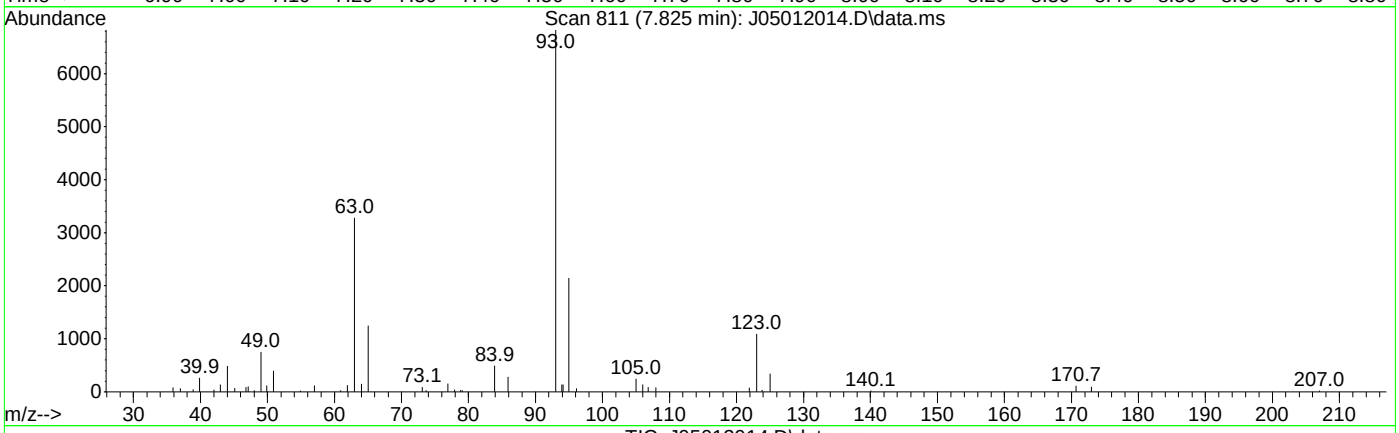
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012014.D\data.ms

(26) Benzoic acid (T)

7.825min (+ 0.016) 848.35 ng/ml

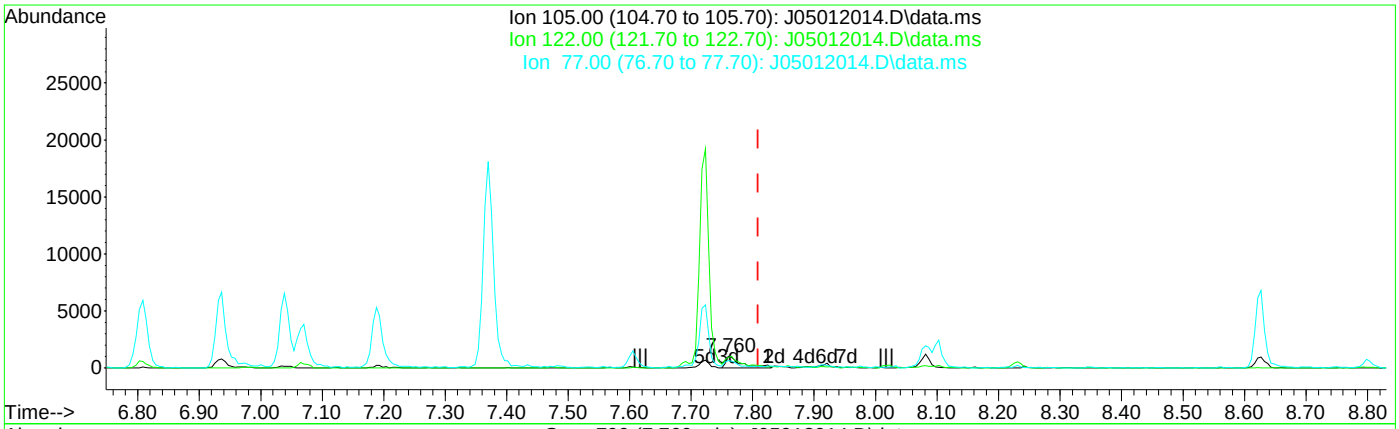
response 208

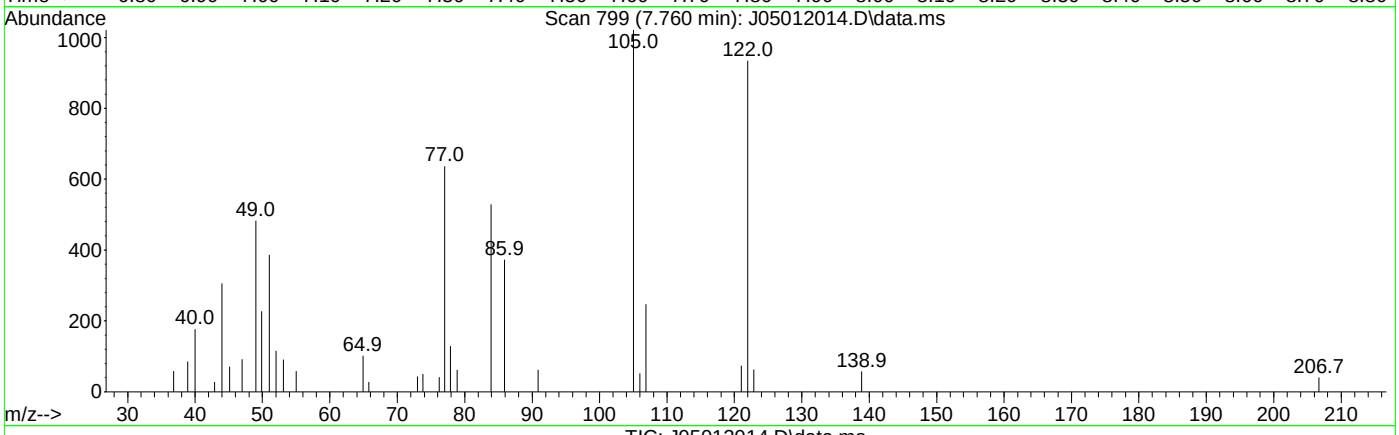
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	30.74#
77.00	61.50	63.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012014.D\data.ms

(26) Benzoic acid (T)

7.760min (-0.048) 875.35 ng/ml m

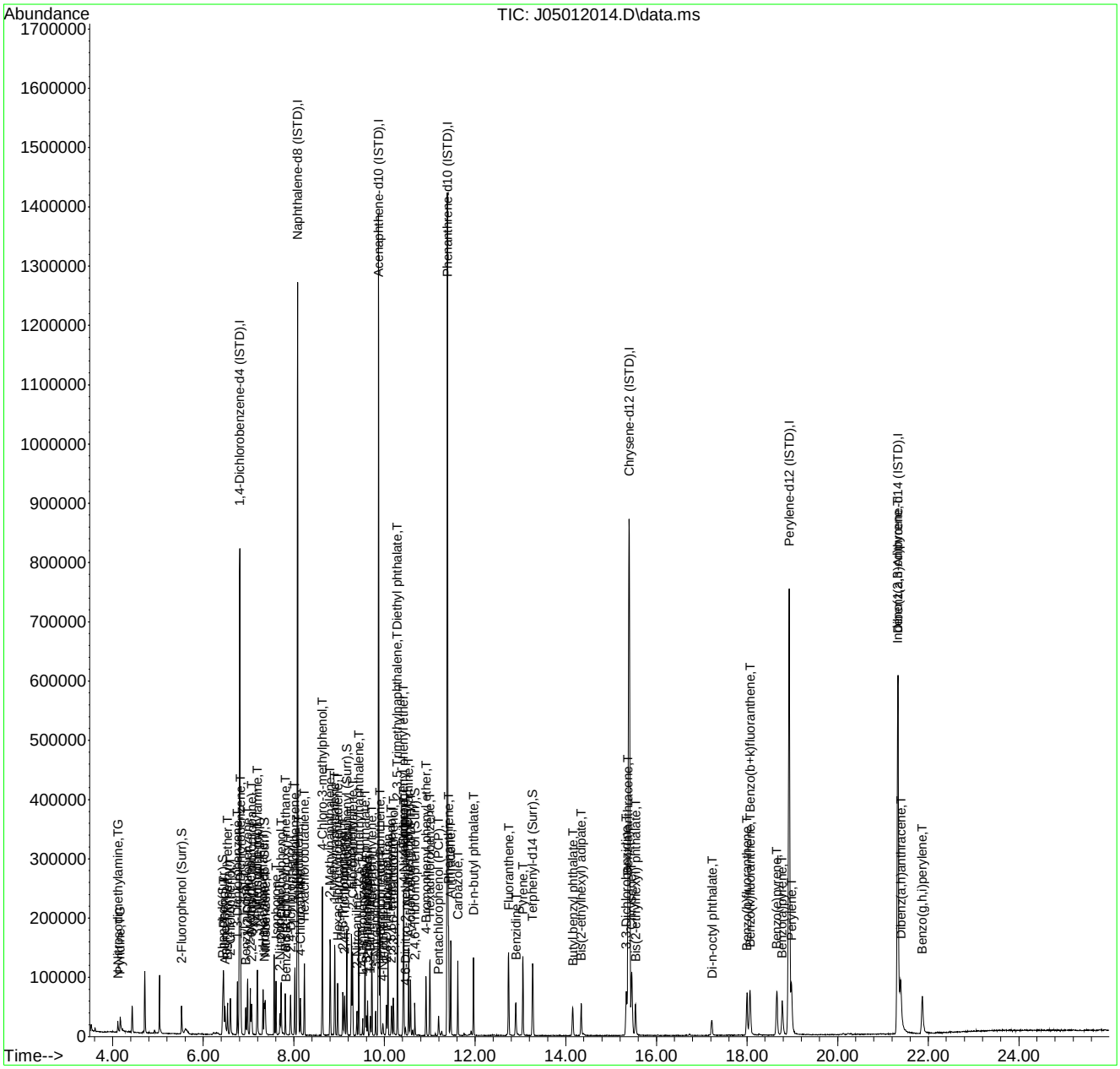
response 1715

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	91.48
77.00	61.50	62.39
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012014.D
Acq On : 1 May 2020 6:50 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL4
Misc : 1x, A20D246@200
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 11:05:09 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	183403	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	680915	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	334768	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.387	188	630899	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	644327	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.934	264	626511	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.330	292	518018	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	58252	526.38	ng/ml	0.00
5) Phenol-d6(Surr)	6.429	99	69027	533.01	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	54703	564.53	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	145387	582.31	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	22448	589.48	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	170092	568.70	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	34459	497.33	ng/ml	95
3) Pyridine	4.156	79	56059	509.43	ng/ml	91
6) Phenol	6.445	94	69878	503.92	ng/ml	94
7) Aniline	6.482	93	69692	768.83	ng/ml	98
8) Bis(2-chloroethyl) ether	6.536	93	64951	479.15	ng/ml	96
9) 2-Chlorophenol	6.600	128	66822	558.19	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	78446	538.03	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	76922	532.46	ng/ml	98
12) Benzyl alcohol	6.931	108	33612	457.14	ng/ml	91
13) 1,2-Dichlorobenzene	6.980	146	76724	543.20	ng/ml	98
14) 2-Methylphenol	7.038	107	48344	547.23	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.065	45	51146	553.45	ng/ml	95
16) N-Nitrosodi-n-propylamine	7.194	70	37629	556.16	ng/ml	97
17) 3+4-Methylphenol	7.188	107	61306	572.81	ng/ml	97
18) Hexachloroethane	7.317	201	27570	585.81	ng/ml	97
20) Nitrobenzene	7.370	77	56770	593.89	ng/ml	95
22) Isophorone	7.605	82	106164	548.51	ng/ml	97
23) 2-Nitrophenol	7.691	139	33472	623.32	ng/ml	93
24) 2,4-Dimethylphenol	7.723	122	53592	573.96	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	67001	530.76	ng/ml	98
26) Benzoic acid	7.782	105	14918	1114.70	ng/ml	94
27) 2,4-Dichlorophenol	7.932	162	53024	566.06	ng/ml	98
28) 1,2,4-Trichlorobenzene	8.023	180	67284	571.93	ng/ml	99
29) Naphthalene	8.103	128	198240	561.54	ng/ml	100
30) 4-Chloroaniline	8.146	127	64457	693.03	ng/ml	97
31) Hexachlorobutadiene	8.231	225	40832	617.66	ng/ml	97
32) 4-Chloro-3-methylphenol	8.622	107	45413	536.86	ng/ml	98
33) 2-Methylnaphthalene	8.803	142	132345	537.43	ng/ml	97
34) 1-Methylnaphthalene	8.905	142	123884	535.96	ng/ml	99
36) Hexachlorocyclopentadiene	8.969	237	36462	661.90	ng/ml	98
37) 2,4,6-Trichlorophenol	9.082	196	36271	574.82	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	36303	563.12	ng/ml	99
39) 1,1'-Biphenyl	9.269	154	153742	569.68	ng/ml	99
41) 2-Chloronaphthalene	9.296	162	117743	568.66	ng/ml	96
42) 2-Nitroaniline	9.392	138	30298	507.64	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	111733	568.53	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	13891	540.06	ng/ml	94
45) Dimethyl phthalate	9.568	163	132075	571.68	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	18060	553.58	ng/ml	98
47) 2,6-Dinitrotoluene	9.633	165	28845	565.37	ng/ml	97
48) 1,2-Dinitrobenzene	9.691	168	13224	562.04	ng/ml	93
49) Acenaphthylene	9.723	152	183911	572.42	ng/ml	99
50) 3-Nitroaniline	9.804	138	25545	602.46	ng/ml	97
51) Acenaphthene	9.900	153	118657	546.61	ng/ml	98
52) 2,4-Dinitrophenol	9.911	184	4171	542.34	ng/ml	86
53) 4-Nitrophenol	9.964	139	16246	496.81	ng/ml	89
54) 2,4-Dinitrotoluene	10.044	165	34026	557.52	ng/ml	96
55) Dibenzofuran	10.076	168	164955	559.27	ng/ml	99
56) 2,3,5,6-Tetrachlorophenol	10.157	232	27343	590.35	ng/ml	99
57) 2,3,4,6-Tetrachlorophenol	10.199	232	29826	581.25	ng/ml	99
58) Diethyl phthalate	10.285	149	129544	591.28	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	108132	599.91	ng/ml	99
60) Fluorene	10.424	166	135494	588.11	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	66625	584.51	ng/ml	98
62) 4-Nitroaniline	10.429	138	18421	443.38	ng/ml	95
63) 4,6-Dinitro-2-methylph...	10.462	198	11323	621.07	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

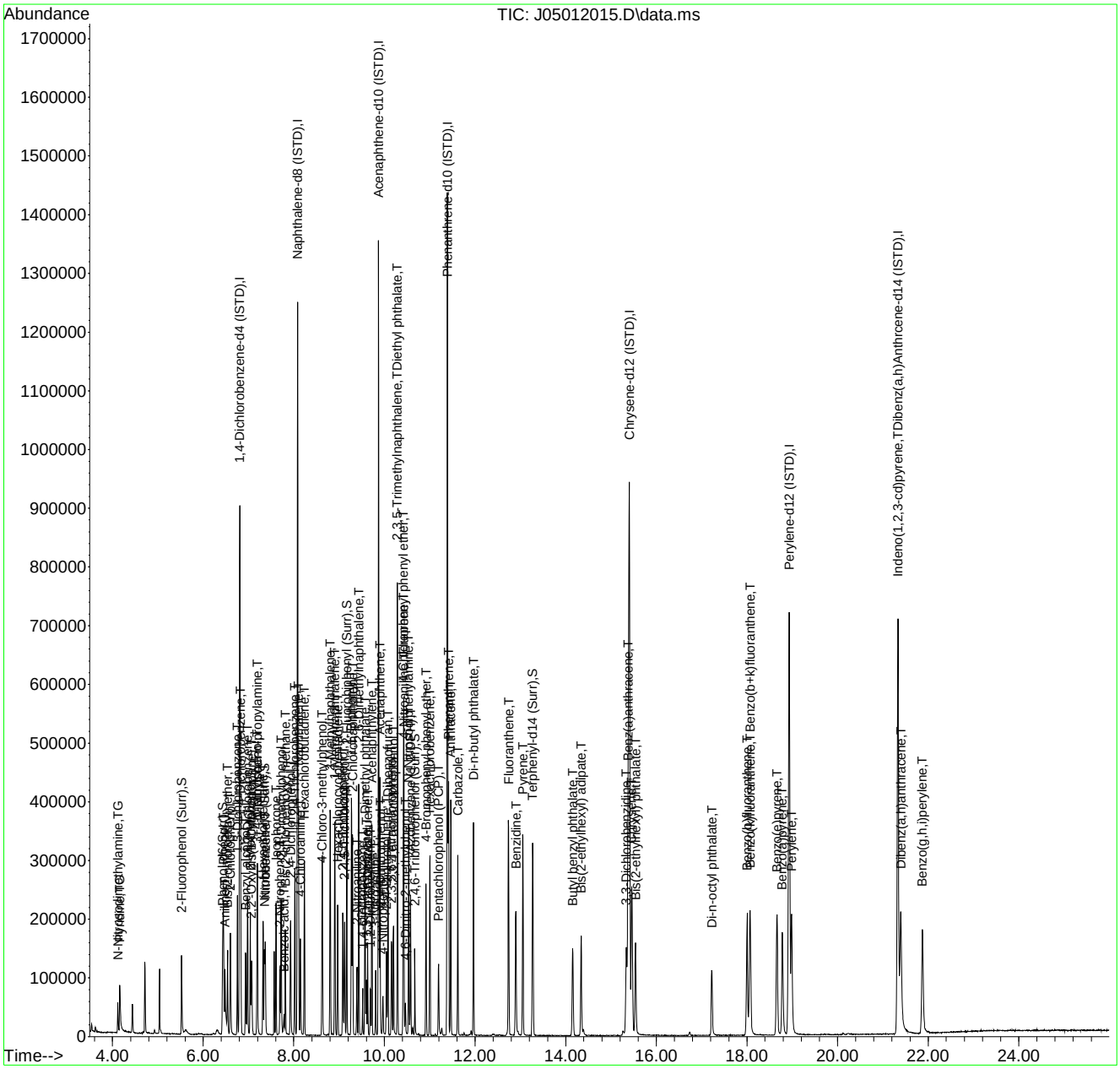
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.531	169	110562	584.38	ng/ml	99
66) Azobenzene (1,2-DPH)	10.579	77	97518	549.08	ng/ml	95
68) 4-Bromophenyl phenyl e...	10.916	248	41767	565.13	ng/ml	98
69) Hexachlorobenzene	11.002	284	53003	575.72	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	18897	552.83	ng/ml	97
71) Phenanthrene	11.414	178	192437	553.88	ng/ml	99
72) Anthracene	11.462	178	189259	555.86	ng/ml	97
73) Carbazole	11.622	167	158571	571.68	ng/ml	99
74) Di-n-butyl phthalate	11.965	149	192660	528.78	ng/ml	99
75) Fluoranthene	12.740	202	207862	570.81	ng/ml	97
76) Benzidine	12.901	184	122263	1997.96	ng/ml	97
77) Pyrene	13.056	202	219139	583.76	ng/ml	99
80) Butyl benzyl phthalate	14.152	149	64881	464.35	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.339	129	58573	478.88	ng/ml	97
82) 3,3-Dichlorobenzidine	15.334	252	70720	2108.71	ng/ml	97
83) Benz(a)anthracene	15.377	228	188950	518.68	ng/ml	100
84) Chrysene	15.457	228	182412	543.91	ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.543	149	94935	454.07	ng/ml	97
87) Di-n-octyl phthalate	17.222	149	120023	378.52	ng/ml	98
88) Benzo(b)fluoranthene	18.003	252	178050	533.80	ng/ml	98
89) Benzo(k)fluoranthene	18.067	252	184628	534.73	ng/ml	98
90) Benzo(b+k)fluoranthene	18.067	252	374428	1067.55	ng/ml	98
91) Benzo(e)pyrene	18.661	252	173884	531.44	ng/ml	97
92) Benzo(a)pyrene	18.779	252	149810	536.70	ng/ml	98
93) Perylene	18.987	252	160709	536.05	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.330	276	152136	496.11	ng/ml	93
96) Dibenz(a,h)anthracene	21.394	278	148631	542.08	ng/ml	95
97) Benzo(g,h,i)perylene	21.870	276	158826	519.73	ng/ml	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012015.D
Acq On : 1 May 2020 7:26 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL5
Misc : 1x, A20D247@500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 11:06:02 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	180245	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	673130	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.868	162	339213	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	643209	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.404	240	647204	2000.00	ng/ml	0.00
86) Perylene-d12 (ISTD)	18.928	264	635590	2000.00	ng/ml	0.00
94) Dibenz(a,h)Anthrcene-d...	21.335	292	543591	2000.00	ng/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	113423	1042.87	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	138996	1092.10	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	110753	1162.99	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.167	172	281689	1113.44	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.670	330	47944	1181.73	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.270	244	335419	1116.48	ng/ml	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.113	74	66004	969.30	ng/ml	89
3) Pyridine	4.150	79	106090	965.93	ng/ml	96
6) Phenol	6.445	94	138337	1015.08	ng/ml	92
7) Aniline	6.482	93	134013	1558.02	ng/ml	95
8) Bis(2-chloroethyl) ether	6.536	93	129066	968.82	ng/ml	95
9) 2-Chlorophenol	6.600	128	130032	1105.24	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	148363	1035.39	ng/ml	99
11) 1,4-Dichlorobenzene	6.824	146	142848	1006.12	ng/ml	99
12) Benzyl alcohol	6.931	108	71211	958.96	ng/ml	96
13) 1,2-Dichlorobenzene	6.980	146	142058	1023.37	ng/ml	98
14) 2-Methylphenol	7.038	107	95275	1097.37	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.071	45	96994	1067.97	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.199	70	73246	1101.55	ng/ml	97
17) 3+4-Methylphenol	7.188	107	121441	1154.56	ng/ml	96
18) Hexachloroethane	7.317	201	52010	1124.48	ng/ml	98
20) Nitrobenzene	7.370	77	106757	1136.38	ng/ml	97
22) Isophorone	7.605	82	207129	1082.54	ng/ml	97
23) 2-Nitrophenol	7.691	139	70564	1272.93	ng/ml	94
24) 2,4-Dimethylphenol	7.723	122	106366	1152.33	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	128175	1027.10	ng/ml	99
26) Benzoic acid	7.809	105	56683	1860.33	ng/ml	97
27) 2,4-Dichlorophenol	7.932	162	105774	1114.64	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.023	180	128491	1104.84	ng/ml	97
29) Naphthalene	8.103	128	377684	1082.21	ng/ml	99
30) 4-Chloroaniline	8.146	127	129616	1686.64	ng/ml	96
31) Hexachlorobutadiene	8.231	225	77201	1181.31	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	90591	1051.36	ng/ml	99
33) 2-Methylnaphthalene	8.803	142	257721	1058.66	ng/ml	99
34) 1-Methylnaphthalene	8.905	142	237648	1040.02	ng/ml	98
36) Hexachlorocyclopentadiene	8.969	237	73630	1295.07	ng/ml	98
37) 2,4,6-Trichlorophenol	9.082	196	75420	1143.21	ng/ml	99
38) 2,4,5-Trichlorophenol	9.119	198	73502	1097.16	ng/ml	99
39) 1,1'-Biphenyl	9.274	154	301856	1103.84	ng/ml	98
41) 2-Chloronaphthalene	9.296	162	230860	1100.36	ng/ml	97
42) 2-Nitroaniline	9.392	138	65577	1084.33	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	218308	1096.27	ng/ml	98
44) 1,4-Dinitrobenzene	9.520	168	31602	1111.54	ng/ml	92
45) Dimethyl phthalate	9.574	163	259401	1108.09	ng/ml	99
46) 1,3-Dinitrobenzene	9.600	168	37452	1066.14	ng/ml	97
47) 2,6-Dinitrotoluene	9.633	165	57671	1089.22	ng/ml	90
48) 1,2-Dinitrobenzene	9.691	168	27052	1134.68	ng/ml	92
49) Acenaphthylene	9.723	152	352233	1081.95	ng/ml	99
50) 3-Nitroaniline	9.809	138	50804	1356.66	ng/ml	95
51) Acenaphthene	9.900	153	231769	1053.69	ng/ml	99
52) 2,4-Dinitrophenol	9.911	184	13736	1228.58	ng/ml	93
53) 4-Nitrophenol	9.964	139	38821	1053.28	ng/ml	93
54) 2,4-Dinitrotoluene	10.044	165	72794	1113.43	ng/ml	93
55) Dibenzofuran	10.076	168	321608	1076.10	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.157	232	61190	1229.34	ng/ml	96
57) 2,3,4,6-Tetrachlorophenol	10.199	232	62656	1158.89	ng/ml	97
58) Diethyl phthalate	10.290	149	247936	1116.83	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.285	170	203355	1113.42	ng/ml	99
60) Fluorene	10.429	166	252058	1079.73	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.419	204	126110	1091.88	ng/ml	98
62) 4-Nitroaniline	10.429	138	38891	923.80	ng/ml	97
63) 4,6-Dinitro-2-methylph...	10.462	198	30354	1328.70	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

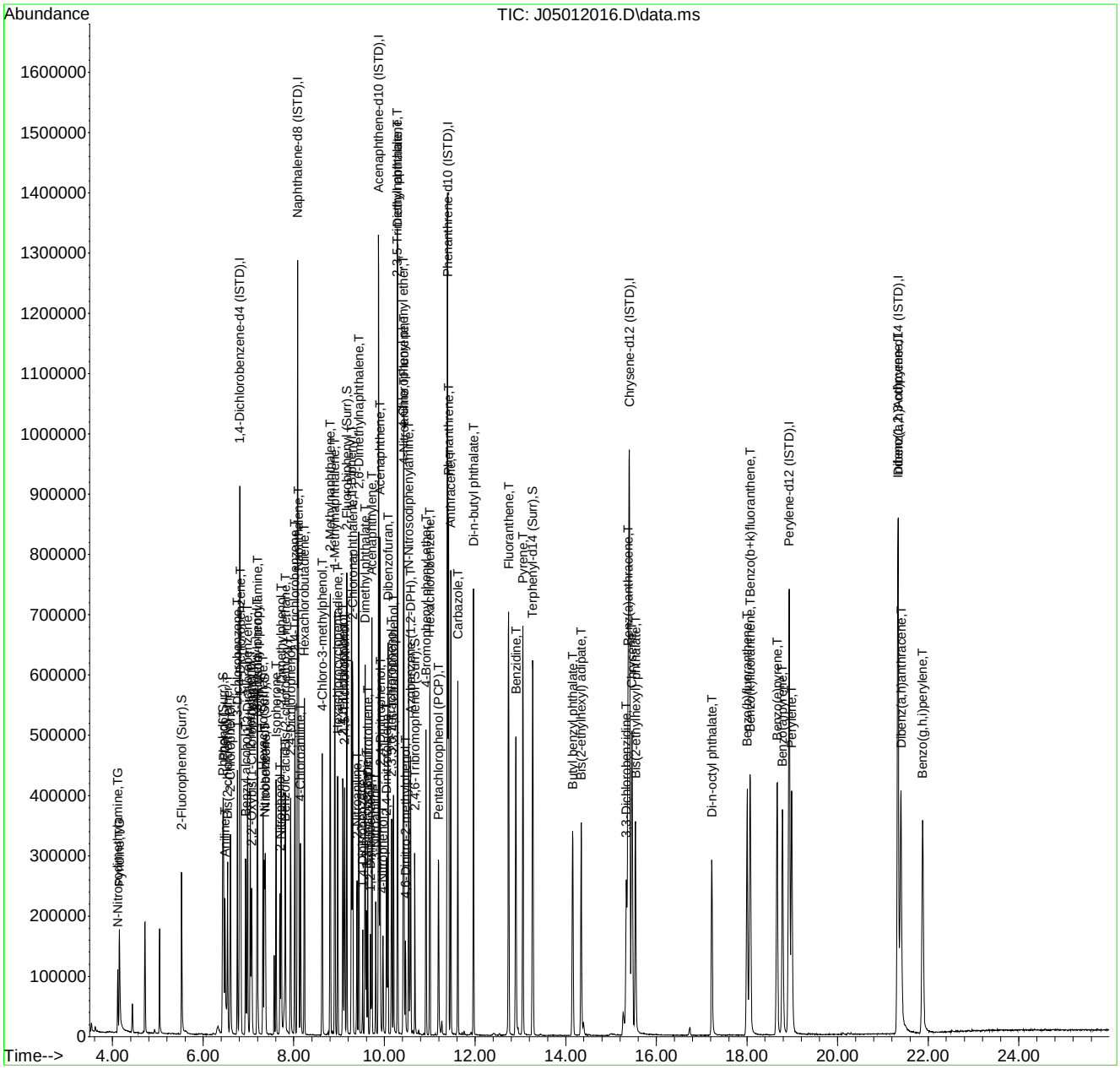
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	214512	1112.12	ng/ml	99
66) Azobenzene (1,2-DPH)	10.579	77	191839	1059.49	ng/ml	97
68) 4-Bromophenyl phenyl e...	10.916	248	81757	1085.04	ng/ml	98
69) Hexachlorobenzene	11.002	284	102514	1092.19	ng/ml	99
70) Pentachlorophenol (PCP)	11.194	266	45305	1162.50	ng/ml	99
71) Phenanthrene	11.414	178	374187	1056.38	ng/ml	99
72) Anthracene	11.462	178	374197	1078.00	ng/ml	98
73) Carbazole	11.622	167	298950	1057.15	ng/ml	99
74) Di-n-butyl phthalate	11.965	149	394866	1063.01	ng/ml	99
75) Fluoranthene	12.740	202	422934	1139.20	ng/ml	97
76) Benzidine	12.901	184	273104	4702.92	ng/ml	97
77) Pyrene	13.056	202	423172	1105.70	ng/ml	100
80) Butyl benzyl phthalate	14.152	149	145488	956.98	ng/ml	95
81) Bis(2-ethylhexyl) adipate	14.339	129	123453	936.11	ng/ml	97
82) 3,3-Dichlorobenzidine	15.334	252	118777	3746.07	ng/ml	96
83) Benz(a)anthracene	15.377	228	376853	1029.89	ng/ml	99
84) Chrysene	15.463	228	354860	1053.41	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.543	149	203493	968.96	ng/ml	97
87) Di-n-octyl phthalate	17.222	149	298544	830.02	ng/ml	100
88) Benzo(b)fluoranthene	18.003	252	358795	1036.82	ng/ml	98
89) Benzo(k)fluoranthene	18.067	252	369147	1053.24	ng/ml	97
90) Benzo(b+k)fluoranthene	18.067	252	750435	2084.96	ng/ml	97
91) Benzo(e)pyrene	18.666	252	349256	1040.24	ng/ml	99
92) Benzo(a)pyrene	18.784	252	308919	1069.40	ng/ml	99
93) Perylene	18.987	252	315421	1037.07	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.330	276	307747	956.33	ng/ml	92
96) Dibenz(a,h)anthracene	21.400	278	300075	1042.93	ng/ml	93
97) Benzo(g,h,i)perylene	21.876	276	328120	1017.15	ng/ml	97

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012016.D
Acq On : 1 May 2020 8:01 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL6
Misc : 1x, A20D248@1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 11:06:45 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	178407	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	652077	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	336578	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	643513	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.430	240	635452	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.955	264	617587	2000.00	ng/ml	0.03
94) Dibenz(a,h)Anthrcene-d...	21.362	292	539634	2000.00	ng/ml	0.03
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	234424	2177.62	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	278467	2210.48	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	215838	2289.82	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.172	172	535435	2133.01	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.675	330	99669	2342.87	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.286	244	649225	2200.99	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.107	74	134599	1997.01	ng/ml	90
3) Pyridine	4.139	79	226549	2040.44	ng/ml	92
6) Phenol	6.450	94	295844	2193.19	ng/ml	92
7) Aniline	6.482	93	268100	3304.75	ng/ml	97
8) Bis(2-chloroethyl) ether	6.541	93	257343	1951.61	ng/ml	97
9) 2-Chlorophenol	6.605	128	256829	2205.47	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	286729	2021.63	ng/ml	98
11) 1,4-Dichlorobenzene	6.824	146	284248	2022.67	ng/ml	99
12) Benzyl alcohol	6.937	108	148637	1990.86	ng/ml	93
13) 1,2-Dichlorobenzene	6.979	146	273037	1987.20	ng/ml	95
14) 2-Methylphenol	7.044	107	186846	2174.25	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	183240	2038.38	ng/ml	99
16) N-Nitrosodi-n-propylamine	7.204	70	142353	2162.90	ng/ml	97
17) 3+4-Methylphenol	7.193	107	235635	2263.30	ng/ml	96
18) Hexachloroethane	7.322	201	105262	2299.27	ng/ml	95
20) Nitrobenzene	7.375	77	211732	2277.01	ng/ml	98
22) Isophorone	7.611	82	400253	2159.42	ng/ml	98
23) 2-Nitrophenol	7.696	139	130953	2344.32	ng/ml	94
24) 2,4-Dimethylphenol	7.728	122	197821	2212.31	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.819	93	249308	2062.27	ng/ml	98
26) Benzoic acid	7.841	105	167185	3774.99	ng/ml	97
27) 2,4-Dichlorophenol	7.937	162	210329	2257.83	ng/ml	98
28) 1,2,4-Trichlorobenzene	8.022	180	239774	2128.29	ng/ml	96
29) Naphthalene	8.103	128	693722	2051.96	ng/ml	100
30) 4-Chloroaniline	8.151	127	238318	Below Cal		96
31) Hexachlorobutadiene	8.231	225	146383	2312.23	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	184384	2155.66	ng/ml	98
33) 2-Methylnaphthalene	8.803	142	493469	2092.51	ng/ml	97
34) 1-Methylnaphthalene	8.905	142	451130	2038.03	ng/ml	98
36) Hexachlorocyclopentadiene	8.975	237	147214	2544.54	ng/ml	97
37) 2,4,6-Trichlorophenol	9.087	196	145792	2183.83	ng/ml	96
38) 2,4,5-Trichlorophenol	9.119	198	150181	2237.43	ng/ml	96
39) 1,1'-Biphenyl	9.274	154	564946	2082.09	ng/ml	99
41) 2-Chloronaphthalene	9.301	162	434449	2086.95	ng/ml	95
42) 2-Nitroaniline	9.397	138	136747	2278.85	ng/ml	94
43) 2,6-Dimethylnaphthalene	9.440	156	412298	2086.62	ng/ml	96
44) 1,4-Dinitrobenzene	9.525	168	69428	2296.63	ng/ml	91
45) Dimethyl phthalate	9.579	163	499048	2148.48	ng/ml	99
46) 1,3-Dinitrobenzene	9.606	168	79439	2193.27	ng/ml	97
47) 2,6-Dinitrotoluene	9.638	165	118828	2235.35	ng/ml	93
48) 1,2-Dinitrobenzene	9.697	168	55084	2328.55	ng/ml	86
49) Acenaphthylene	9.729	152	673465	2084.87	ng/ml	99
50) 3-Nitroaniline	9.814	138	95947	Below Cal		94
51) Acenaphthene	9.905	153	440129	2016.62	ng/ml	99
52) 2,4-Dinitrophenol	9.916	184	39777	2644.51	ng/ml	93
53) 4-Nitrophenol	9.969	139	83836	2150.35	ng/ml	84
54) 2,4-Dinitrotoluene	10.050	165	152328	2284.79	ng/ml	94
55) Dibenzofuran	10.082	168	619598	2089.41	ng/ml	98
56) 2,3,5,6-Tetrachlorophenol	10.157	232	128576	2455.89	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.205	232	129498	2334.92	ng/ml	99
58) Diethyl phthalate	10.296	149	455636	2068.49	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.290	170	378517	2088.70	ng/ml	96
60) Fluorene	10.429	166	480963	2076.40	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.419	204	244428	2132.86	ng/ml	95
62) 4-Nitroaniline	10.440	138	76264	1825.73	ng/ml	91
63) 4,6-Dinitro-2-methylph...	10.472	198	72474	2687.95	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

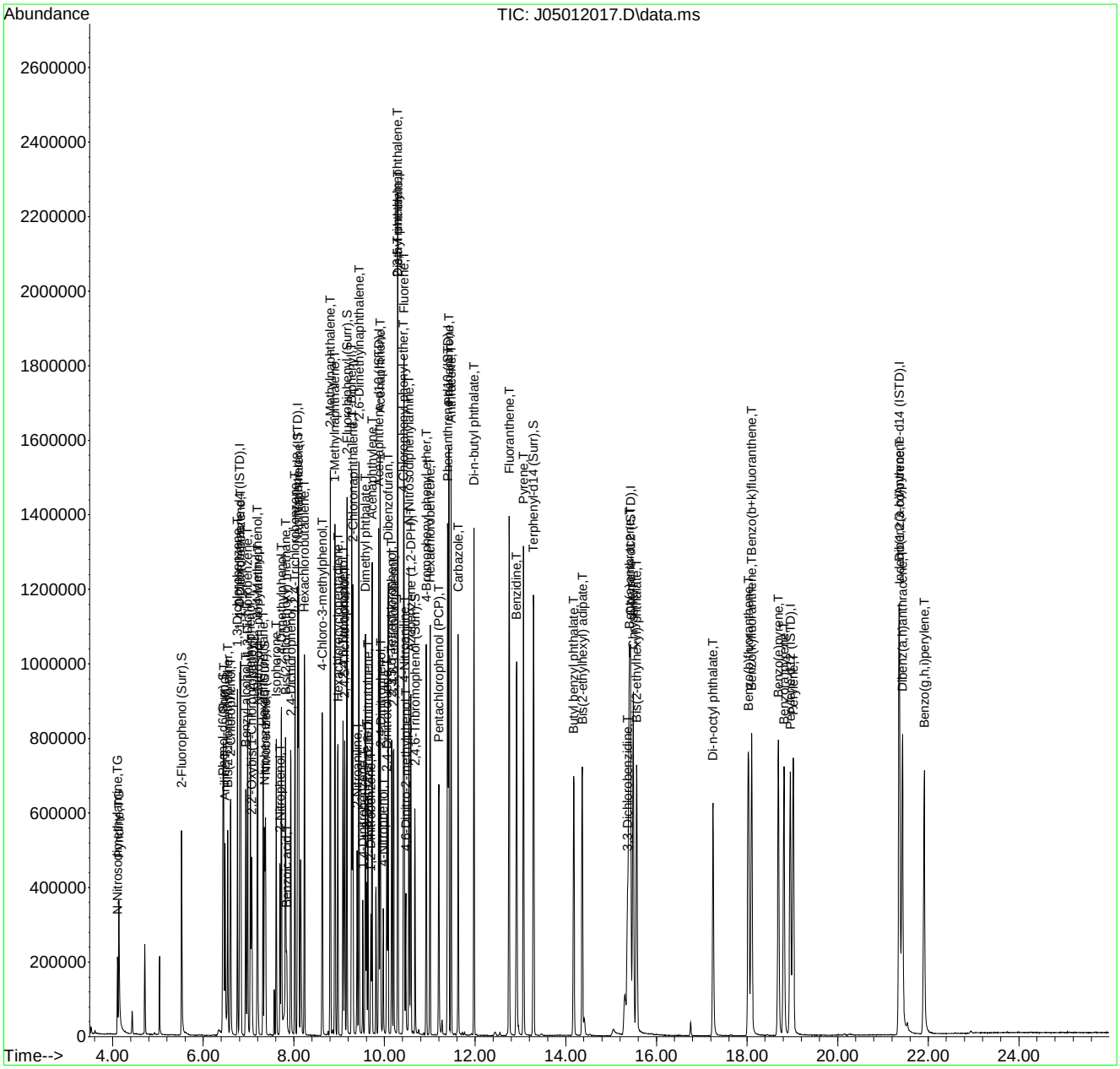
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.542	169	408855	2118.67	ng/ml	98
66) Azobenzene (1,2-DPH)	10.584	77	372273	2055.02	ng/ml	98
68) 4-Bromophenyl phenyl e...	10.921	248	163489	2168.72	ng/ml	98
69) Hexachlorobenzene	11.007	284	195498	2081.86	ng/ml	99
70) Pentachlorophenol (PCP)	11.200	266	103626	2415.54	ng/ml	100
71) Phenanthrene	11.419	178	702306	1981.77	ng/ml	100
72) Anthracene	11.472	178	712315	2051.10	ng/ml	99
73) Carbazole	11.627	167	523258	1849.48	ng/ml	100
74) Di-n-butyl phthalate	11.975	149	751793	2022.94	ng/ml	99
75) Fluoranthene	12.751	202	825251	2221.81	ng/ml	97
76) Benzidine	12.916	184	596002	15899.55	ng/ml	97
77) Pyrene	13.072	202	829284	2165.80	ng/ml	100
80) Butyl benzyl phthalate	14.173	149	304776	1946.78	ng/ml	95
81) Bis(2-ethylhexyl) adipate	14.366	129	263361	1943.41	ng/ml	98
82) 3,3-Dichlorobenzidine	15.366	252	178328	5753.38	ng/ml	97
83) Benz(a)anthracene	15.404	228	742522	2066.75	ng/ml	99
84) Chrysene	15.489	228	694601	2100.07	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.564	149	423910	2055.84	ng/ml	97
87) Di-n-octyl phthalate	17.254	149	680919	1854.68	ng/ml	98
88) Benzo(b)fluoranthene	18.035	252	746356	2147.19	ng/ml	97
89) Benzo(k)fluoranthene	18.105	252	719032	2141.02	ng/ml	96
90) Benzo(b+k)fluoranthene	18.105	252	1502107	4252.61	ng/ml	96
91) Benzo(e)pyrene	18.693	252	695034	2106.60	ng/ml	98
92) Benzo(a)pyrene	18.816	252	620228	2160.55	ng/ml	99
93) Perylene	19.019	252	616962	2087.64	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.367	276	624900	1956.13	ng/ml	91
96) Dibenz(a,h)anthracene	21.432	278	601594	2106.21	ng/ml	93
97) Benzo(g,h,i)perylene	21.913	276	669317	2091.74	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012017.D
Acq On : 1 May 2020 8:36 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL7
Misc : 1x, A20D249@2000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 04 11:07:48 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.809	152	174907	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.087	136	635505	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	321338	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	626814	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.431	240	616881	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.961	264	609005	2000.00	ng/ml	0.03
94) Dibenz(a,h)Anthrcene-d...	21.373	292	544489	2000.00	ng/ml	0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	452073	4283.45	ng/ml	0.00
5) Phenol-d6(Surr)	6.445	99	522506	4230.67	ng/ml	0.01
19) Nitrobenzene-d5 (Surr)	7.359	82	401506	4344.80	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.173	172	947130	3952.02	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.681	330	195059	4413.52	ng/ml	0.01
79) Terphenyl-d14 (Surr)	13.286	244	1222290	4268.53	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.123	74	262941	3979.25	ng/ml	92
3) Pyridine	4.145	79	442936	3948.33	ng/ml	93
6) Phenol	6.455	94	551221	4168.16	ng/ml	87
7) Aniline	6.488	93	545033	7636.29	ng/ml	97
8) Bis(2-chloroethyl) ether	6.546	93	449460	3476.78	ng/ml	95
9) 2-Chlorophenol	6.605	128	484213	4241.29	ng/ml	99
10) 1,3-Dichlorobenzene	6.755	146	535315	3849.86	ng/ml	97
11) 1,4-Dichlorobenzene	6.830	146	520387	3777.11	ng/ml	98
12) Benzyl alcohol	6.942	108	285840	3857.82	ng/ml	93
13) 1,2-Dichlorobenzene	6.980	146	496140	3683.23	ng/ml	97
14) 2-Methylphenol	7.044	107	341774	4056.66	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.071	45	333090	3779.47	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.210	70	253448	3927.93	ng/ml	97
17) 3+4-Methylphenol	7.199	107	419273	4107.75	ng/ml	95
18) Hexachloroethane	7.322	201	197978	4411.02	ng/ml	94
20) Nitrobenzene	7.381	77	390099	4279.16	ng/ml	99
22) Isophorone	7.621	82	745397	4126.39	ng/ml	98
23) 2-Nitrophenol	7.696	139	254617	4410.75	ng/ml	91
24) 2,4-Dimethylphenol	7.734	122	351489	4033.34	ng/ml	95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.825	93	453427	3848.55	ng/ml	99
26) Benzoic acid	7.889	105	443484	7994.36	ng/ml	95
27) 2,4-Dichlorophenol	7.937	162	384242	4202.27	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.028	180	435878	3969.84	ng/ml	97
29) Naphthalene	8.108	128	1228640	3728.96	ng/ml	98
30) 4-Chloroaniline	8.156	127	406932	Below Cal		96
31) Hexachlorobutadiene	8.237	225	270996	4392.22	ng/ml	100
32) 4-Chloro-3-methylphenol	8.632	107	351606	4109.93	ng/ml	98
33) 2-Methylnaphthalene	8.809	142	877955	3819.98	ng/ml	96
34) 1-Methylnaphthalene	8.911	142	809740	3753.48	ng/ml	97
36) Hexachlorocyclopentadiene	8.975	237	284487	4939.24	ng/ml	99
37) 2,4,6-Trichlorophenol	9.087	196	286551	4402.20	ng/ml	97
38) 2,4,5-Trichlorophenol	9.124	198	281418	4401.37	ng/ml	98
39) 1,1'-Biphenyl	9.280	154	996176	3845.50	ng/ml	99
41) 2-Chloronaphthalene	9.306	162	765622	3852.21	ng/ml	96
42) 2-Nitroaniline	9.403	138	258700	4515.62	ng/ml	92
43) 2,6-Dimethylnaphthalene	9.440	156	728975	3864.28	ng/ml	97
44) 1,4-Dinitrobenzene	9.531	168	136292	4375.43	ng/ml	91
45) Dimethyl phthalate	9.584	163	894138	4031.97	ng/ml	98
46) 1,3-Dinitrobenzene	9.617	168	154967	4352.80	ng/ml	94
47) 2,6-Dinitrotoluene	9.643	165	219135	4303.99	ng/ml	90
48) 1,2-Dinitrobenzene	9.707	168	104188	4613.19	ng/ml	84
49) Acenaphthylene	9.729	152	1161710	3766.91	ng/ml	100
50) 3-Nitroaniline	9.820	138	105482	Below Cal		98
51) Acenaphthene	9.911	153	767014	3681.04	ng/ml	98
52) 2,4-Dinitrophenol	9.921	184	98071	4984.91	ng/ml	92
53) 4-Nitrophenol	9.980	139	167465	4228.31	ng/ml	89
54) 2,4-Dinitrotoluene	10.060	165	290214	4502.96	ng/ml	96
55) Dibenzofuran	10.082	168	1089674	3848.88	ng/ml	94
56) 2,3,5,6-Tetrachlorophenol	10.162	232	249569	4619.78	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.205	232	247870	4497.26	ng/ml	98
58) Diethyl phthalate	10.301	149	786255	3738.71	ng/ml	98
59) 2,3,5-Trimethylnaphtha...	10.296	170	648195	3746.45	ng/ml	97
60) Fluorene	10.435	166	836388	3782.09	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.424	204	447464	4089.72	ng/ml	97
62) 4-Nitroaniline	10.446	138	141155	3539.46	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.478	198	156895	5012.71	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

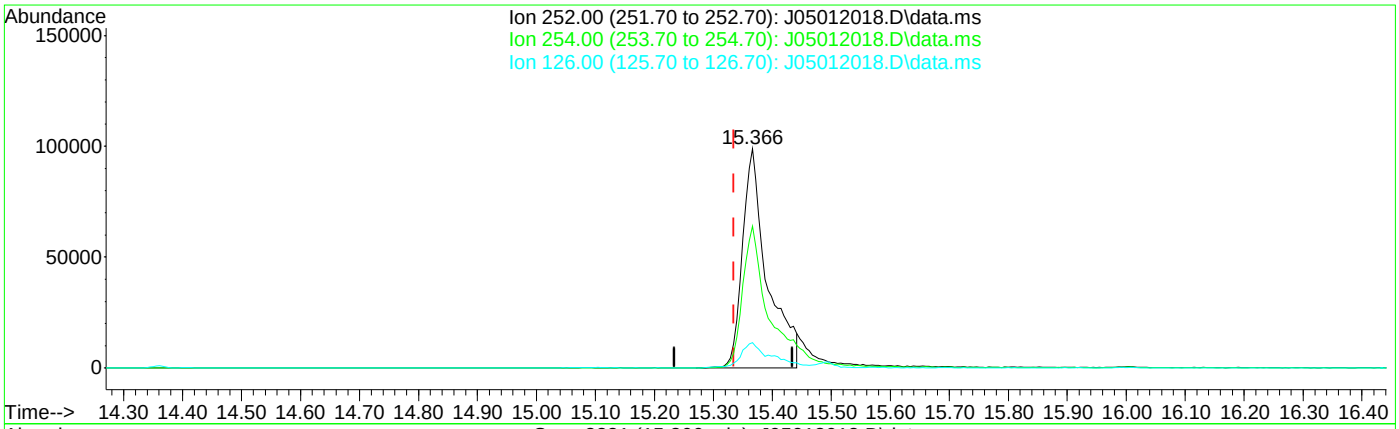
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.547	169	702299	3736.24	ng/ml	99
66) Azobenzene (1,2-DPH)	10.590	77	651181	3690.41	ng/ml	94
68) 4-Bromophenyl phenyl e...	10.927	248	311932	4248.09	ng/ml	97
69) Hexachlorobenzene	11.007	284	362746	3965.80	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	211120	4533.98	ng/ml	99
71) Phenanthrene	11.424	178	1281640	3712.89	ng/ml	98
72) Anthracene	11.473	178	1278996	3780.96	ng/ml	98
73) Carbazole	11.628	167	602292	2185.55	ng/ml	99
74) Di-n-butyl phthalate	11.975	149	1394915	3853.46	ng/ml	99
75) Fluoranthene	12.751	202	1505186	4160.35	ng/ml	97
76) Benzidine	12.917	184	1057265	Below Cal		97
77) Pyrene	13.072	202	1501003	4024.54	ng/ml	99
80) Butyl benzyl phthalate	14.174	149	625201	3934.48	ng/ml	93
81) Bis(2-ethylhexyl) adipate	14.361	129	529388	3876.56	ng/ml	98
82) 3,3-Dichlorobenzidine	15.366	252	287308	9221.59	ng/ml	See MI 97
83) Benz(a)anthracene	15.404	228	1395465	4001.10	ng/ml	99
84) Chrysene	15.495	228	1316345	4099.68	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.564	149	831541	4154.15	ng/ml	96
87) Di-n-octyl phthalate	17.254	149	1442635	3894.28	ng/ml	99
88) Benzo(b)fluoranthene	18.035	252	1458700	4053.65	ng/ml	97
89) Benzo(k)fluoranthene	18.110	252	1354141	4234.87	ng/ml	97
90) Benzo(b+k)fluoranthene	18.110	252	2877335	8167.52	ng/ml	97
91) Benzo(e)pyrene	18.709	252	1356699	4107.66	ng/ml	97
92) Benzo(a)pyrene	18.827	252	1212487	4147.34	ng/ml	99
93) Perylene	19.035	252	1175455	4033.48	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.389	276	1288601	3997.76	ng/ml	93
96) Dibenz(a,h)anthracene	21.448	278	1233028	4278.40	ng/ml	91
97) Benzo(g,h,i)perylene	21.934	276	1315312	4106.09	ng/ml	90

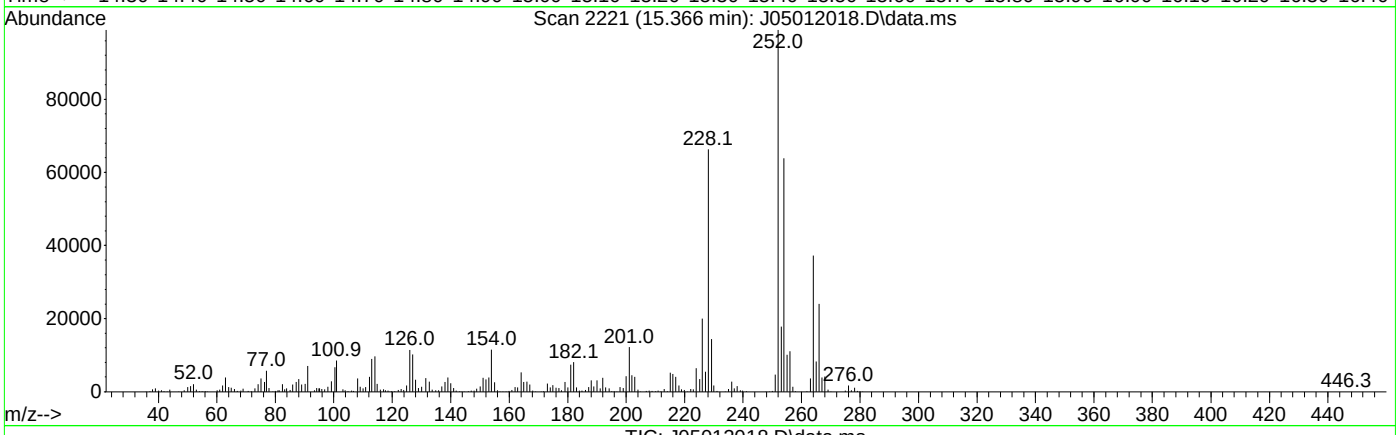
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012018.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.366min (+ 0.032) 9221.59 ng/ml

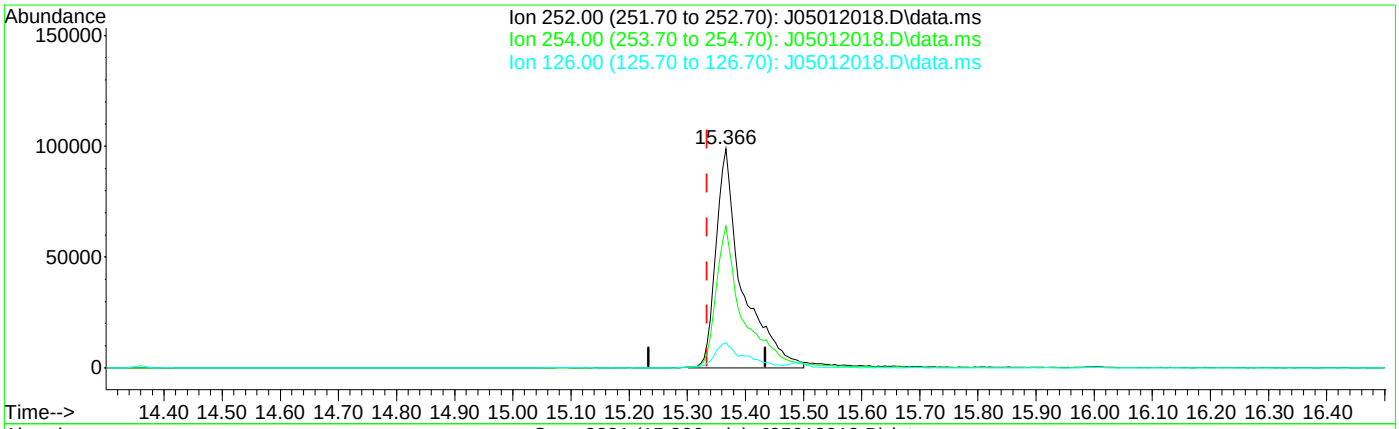
response 287308

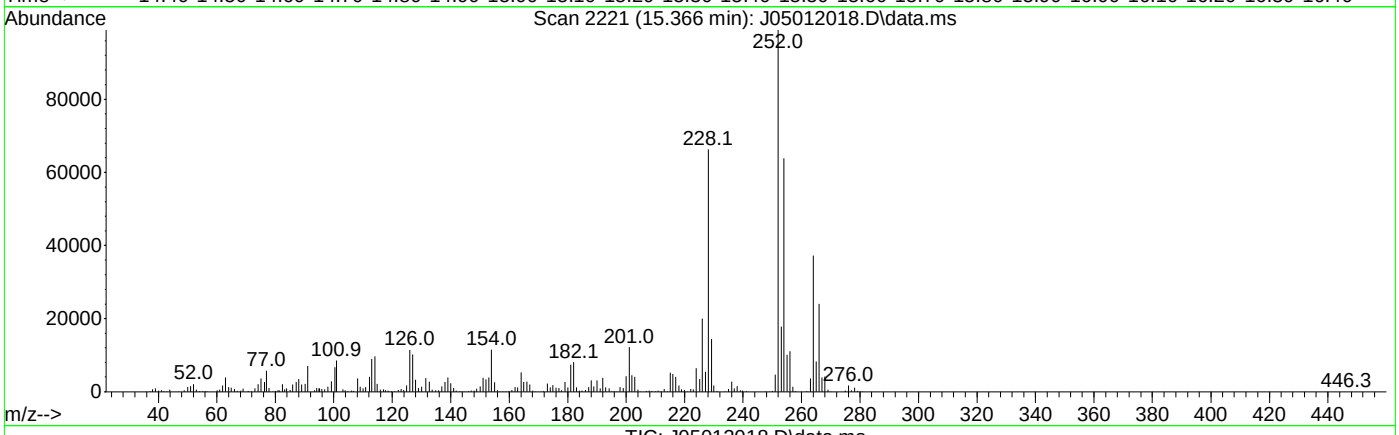
Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.54
126.00	13.30	11.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012018.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.366min (+ 0.032) 9848.94 ng/ml m

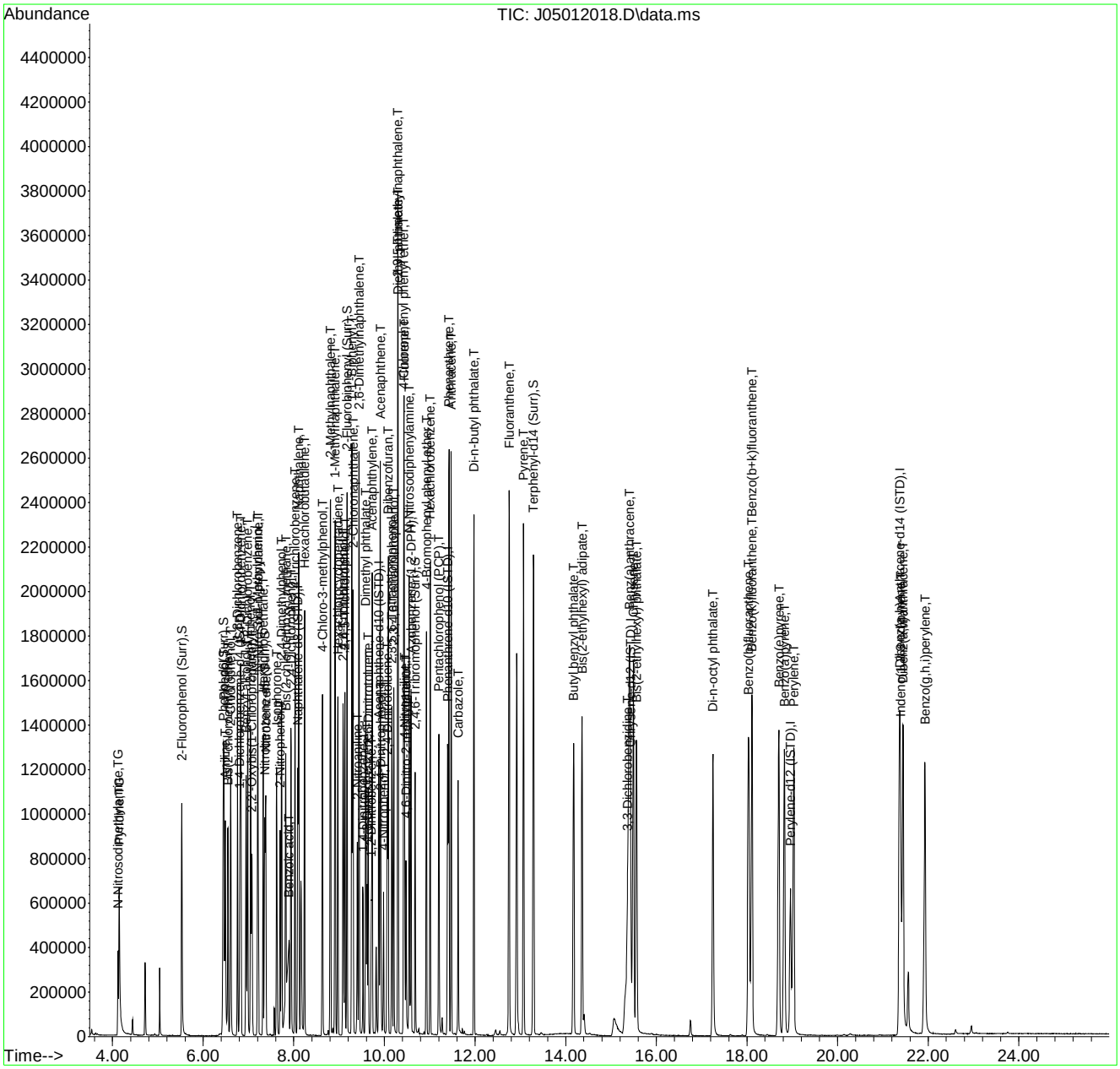
response 309410

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.54
126.00	13.30	11.55
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012018.D
Acq On : 1 May 2020 9:11 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL8
Misc : 1x, A20D250@4000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 04 11:08:33 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.814	152	165574	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.087	136	621657	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	325974	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.398	188	615884	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.430	240	555110	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.961	264	556224	2000.00	ng/ml	0.03
94) Dibenz(a,h)Anthrcene-d...	21.378	292	497217	2000.00	ng/ml	0.04
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	655827	6564.32	ng/ml	0.00
5) Phenol-d6(Surr)	6.450	99	739081	6321.57	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.365	82	567191	6483.68	ng/ml	0.01
40) 2-Fluorobiphenyl (Surr)	9.178	172	1323459	5443.76	ng/ml	0.01
67) 2,4,6-Tribromophenol (...	10.686	330	287674	6287.97	ng/ml	0.02
79) Terphenyl-d14 (Surr)	13.291	244	1636098	6349.44	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.118	74	393406	6289.26	ng/ml	87
3) Pyridine	4.139	79	679950	6195.90	ng/ml	96
6) Phenol	6.466	94	767137	6127.83	ng/ml	86
7) Aniline	6.487	93	804680	14359.71	ng/ml	95
8) Bis(2-chloroethyl) ether	6.546	93	610903	4991.99	ng/ml	92
9) 2-Chlorophenol	6.611	128	680218	6293.96	ng/ml	98
10) 1,3-Dichlorobenzene	6.760	146	741627	5634.25	ng/ml	98
11) 1,4-Dichlorobenzene	6.830	146	708159	5429.74	ng/ml	98
12) Benzyl alcohol	6.947	108	393544	5565.93	ng/ml	90
13) 1,2-Dichlorobenzene	6.985	146	679700	5330.37	ng/ml	97
14) 2-Methylphenol	7.049	107	459315	5759.11	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.076	45	433983	5201.84	ng/ml	93
16) N-Nitrosodi-n-propylamine	7.220	70	347925	5696.07	ng/ml	99
17) 3+4-Methylphenol	7.210	107	564140	5838.61	ng/ml	95
18) Hexachloroethane	7.322	201	275750	6490.12	ng/ml	93
20) Nitrobenzene	7.386	77	538665	6241.91	ng/ml	99
22) Isophorone	7.627	82	1085451	6142.73	ng/ml	98
23) 2-Nitrophenol	7.702	139	359445	6098.48	ng/ml	89
24) 2,4-Dimethylphenol	7.739	122	496307	5822.00	ng/ml	94

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.825	93	615100	5337.08	ng/ml	99
26) Benzoic acid	7.739	105	17257	1186.11	ng/ml#See MI1	
27) 2,4-Dichlorophenol	7.942	162	541260	6030.55	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.028	180	598290	5570.42	ng/ml	97
29) Naphthalene	8.113	128	1645822	5106.39	ng/ml	98
30) 4-Chloroaniline	8.162	127	557000	Below Cal		95
31) Hexachlorobutadiene	8.237	225	385170	6381.77	ng/ml	99
32) 4-Chloro-3-methylphenol	8.632	107	501798	5878.63	ng/ml	96
33) 2-Methylnaphthalene	8.809	142	1210517	5384.28	ng/ml	96
34) 1-Methylnaphthalene	8.910	142	1107064	5246.01	ng/ml	96
36) Hexachlorocyclopentadiene	8.975	237	412390	6841.09	ng/ml	98
37) 2,4,6-Trichlorophenol	9.092	196	411313	6149.81	ng/ml	97
38) 2,4,5-Trichlorophenol	9.130	198	405084	6281.80	ng/ml	97
39) 1,1'-Biphenyl	9.280	154	1359592	5173.74	ng/ml	99
41) 2-Chloronaphthalene	9.306	162	1059335	5254.22	ng/ml	94
42) 2-Nitroaniline	9.408	138	382203	6576.49	ng/ml	93
43) 2,6-Dimethylnaphthalene	9.445	156	1003034	5241.45	ng/ml	96
44) 1,4-Dinitrobenzene	9.536	168	205994	6168.33	ng/ml	90
45) Dimethyl phthalate	9.595	163	1257398	5589.39	ng/ml	99
46) 1,3-Dinitrobenzene	9.622	168	223699	6095.05	ng/ml	95
47) 2,6-Dinitrotoluene	9.649	165	313636	6075.74	ng/ml	90
48) 1,2-Dinitrobenzene	9.718	168	149729	6535.35	ng/ml	88
49) Acenaphthylene	9.734	152	1585324	5067.39	ng/ml	99
50) 3-Nitroaniline	9.825	138	134645	Below Cal		98
51) Acenaphthene	9.911	153	1076553	5093.10	ng/ml	100
52) 2,4-Dinitrophenol	9.927	184	158485	6679.51	ng/ml	94
53) 4-Nitrophenol	9.986	139	244656	5860.77	ng/ml	85
54) 2,4-Dinitrotoluene	10.066	165	409733	6245.23	ng/ml	95
55) Dibenzofuran	10.087	168	1509514	5255.98	ng/ml	93
56) 2,3,5,6-Tetrachlorophenol	10.162	232	362239	6271.03	ng/ml	98
57) 2,3,4,6-Tetrachlorophenol	10.210	232	358335	6232.65	ng/ml	97
58) Diethyl phthalate	10.306	149	1028926	4823.05	ng/ml	96
59) 2,3,5-Trimethylnaphtha...	10.296	170	895832	5104.11	ng/ml	96
60) Fluorene	10.440	166	1143948	5099.29	ng/ml	100
61) 4-Chlorophenyl phenyl ...	10.424	204	631834	5692.69	ng/ml	96
62) 4-Nitroaniline	10.456	138	203041	5018.85	ng/ml	92
63) 4,6-Dinitro-2-methylph...	10.488	198	232609	6581.49	ng/ml	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

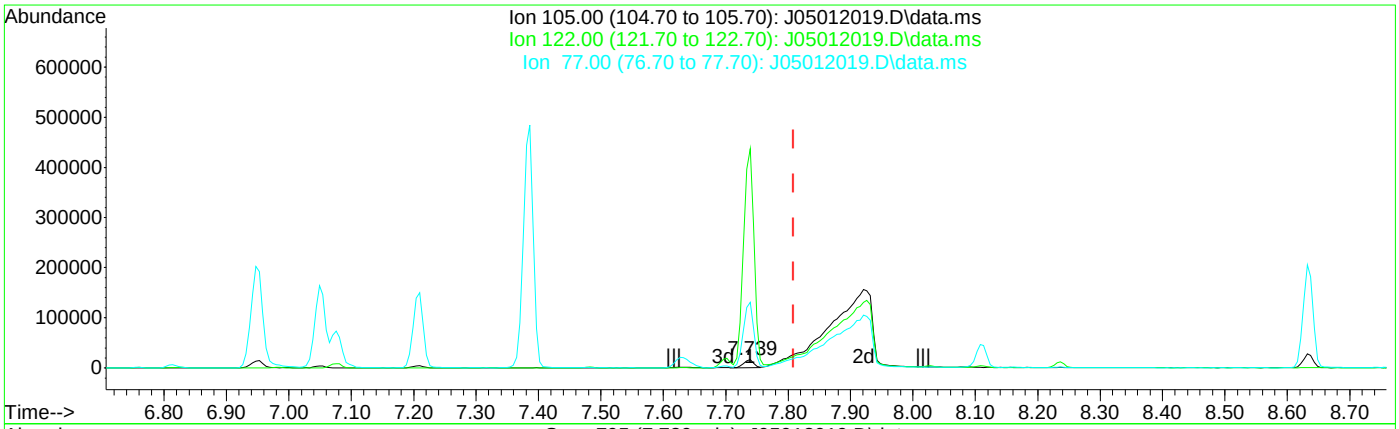
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.552	169	942017	5100.49	ng/ml	99
66) Azobenzene (1,2-DPH)	10.590	77	888474	5124.57	ng/ml	94
68) 4-Bromophenyl phenyl e...	10.927	248	451078	6252.09	ng/ml	99
69) Hexachlorobenzene	11.012	284	517399	5756.97	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	312170	6317.70	ng/ml	99
71) Phenanthrene	11.424	178	1749249	5157.48	ng/ml	98
72) Anthracene	11.478	178	1732004	5211.00	ng/ml	98
73) Carbazole	11.628	167	685341	2531.04	ng/ml	99
74) Di-n-butyl phthalate	11.975	149	1828582	5141.11	ng/ml	98
75) Fluoranthene	12.756	202	2010843	5656.62	ng/ml	95
76) Benzidine	12.922	184	1394496	Below Cal		97
77) Pyrene	13.072	202	2033824	5549.93	ng/ml	98
80) Butyl benzyl phthalate	14.174	149	839217	5697.77	ng/ml	92
81) Bis(2-ethylhexyl) adipate	14.361	129	700244	5565.92	ng/ml	98
82) 3,3-Dichlorobenzidine	15.372	252	347008	11922.66	ng/ml	See MI 98
83) Benz(a)anthracene	15.409	228	1868254	5952.76	ng/ml	100
84) Chrysene	15.495	228	1740049	6022.32	ng/ml	99
85) Bis(2-ethylhexyl) phth...	15.564	149	1106114	6140.73	ng/ml	95
87) Di-n-octyl phthalate	17.254	149	1961816	5747.45	ng/ml	99
88) Benzo(b)fluoranthene	18.046	252	1988669	5804.57	ng/ml	97
89) Benzo(k)fluoranthene	18.121	252	1807757	6444.06	ng/ml	97
90) Benzo(b+k)fluoranthene	18.121	252	3883230	11954.40	ng/ml	97
91) Benzo(e)pyrene	18.714	252	1792904	5872.49	ng/ml	98
92) Benzo(a)pyrene	18.832	252	1628683	5938.59	ng/ml	99
93) Perylene	19.035	252	1575409	5918.87	ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.394	276	1822387	6191.30	ng/ml	91
96) Dibenz(a,h)anthracene	21.453	278	1647572	6260.32	ng/ml	92
97) Benzo(g,h,i)perylene	21.940	276	1758939	6067.80	ng/ml	91

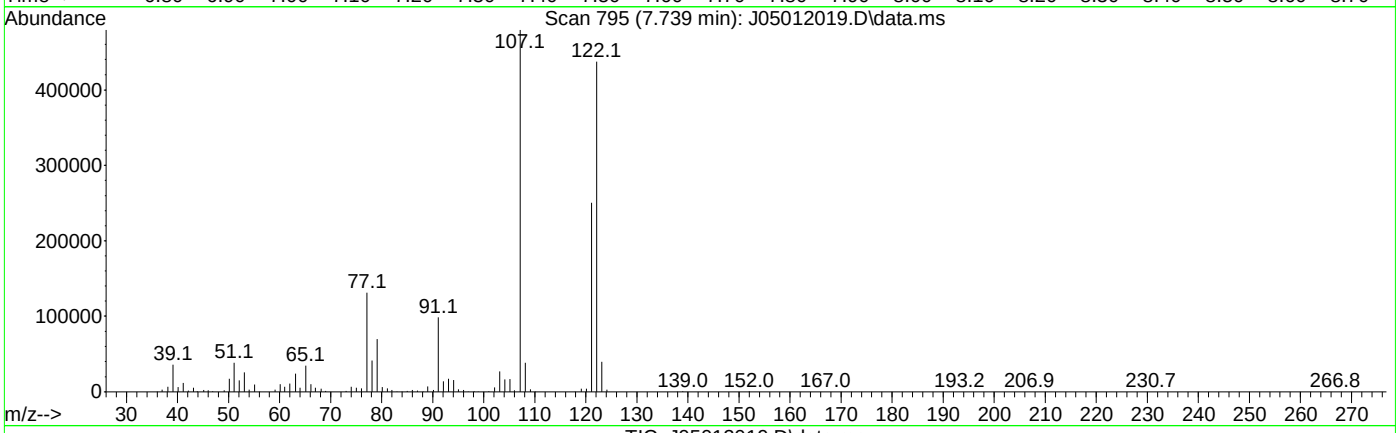
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(26) Benzoic acid (T)

7.739min (-0.070) 1186.11 ng/ml

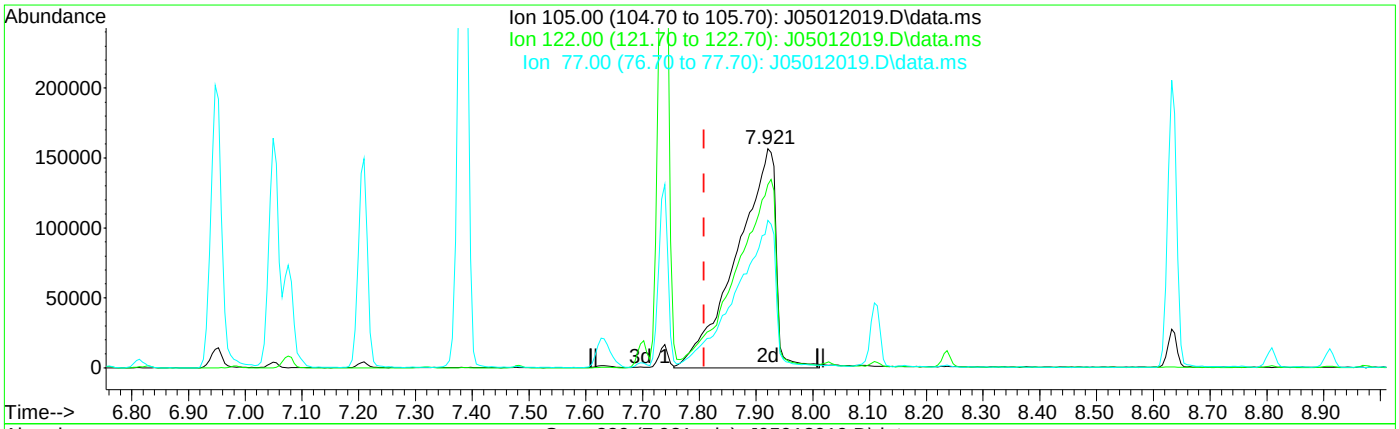
response 17257

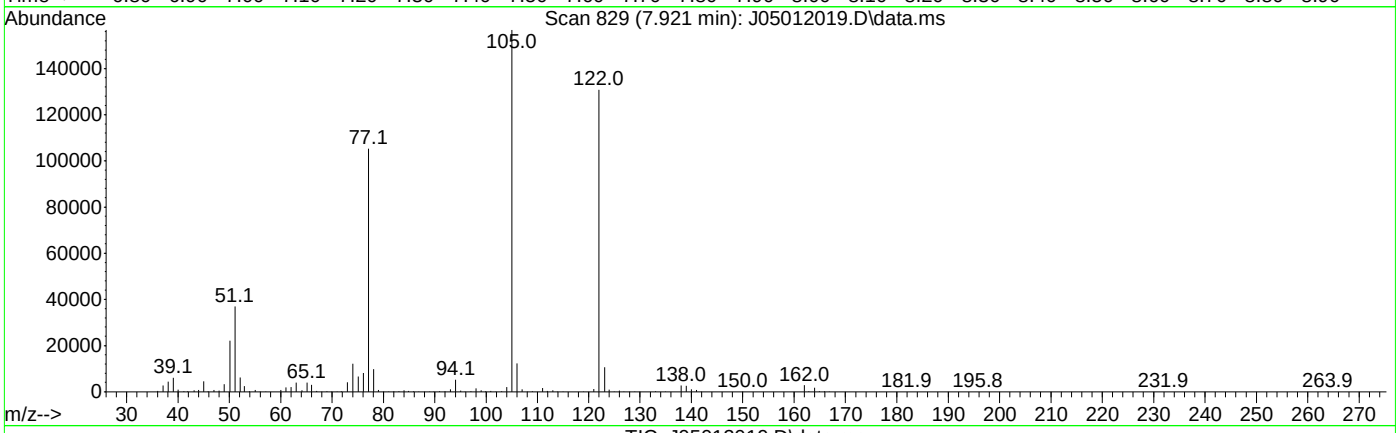
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	2637.72#
77.00	61.50	790.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(26) Benzoic acid (T)

7.921min (+ 0.112) 12136.56 ng/ml m

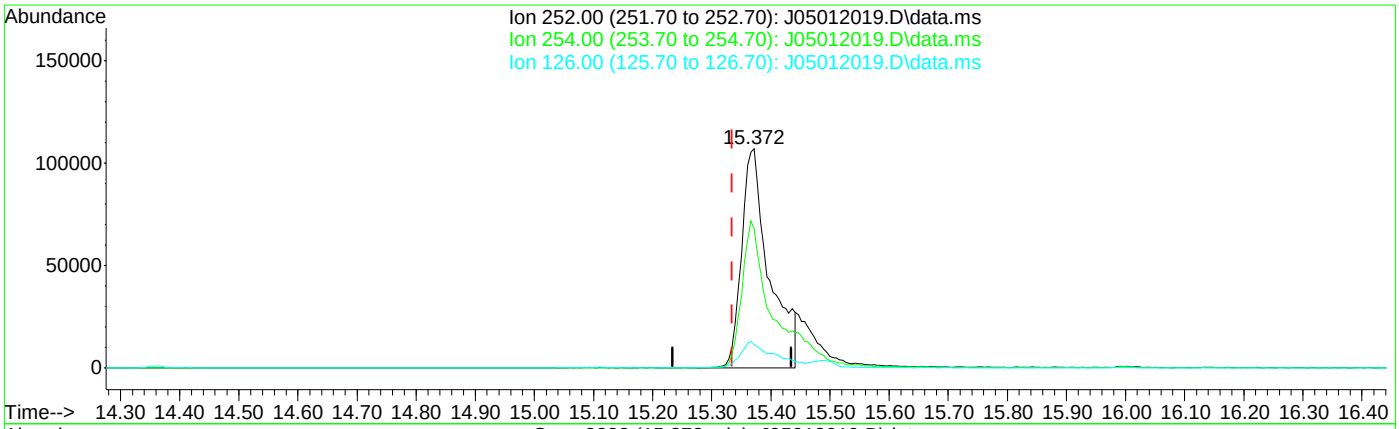
response 754829

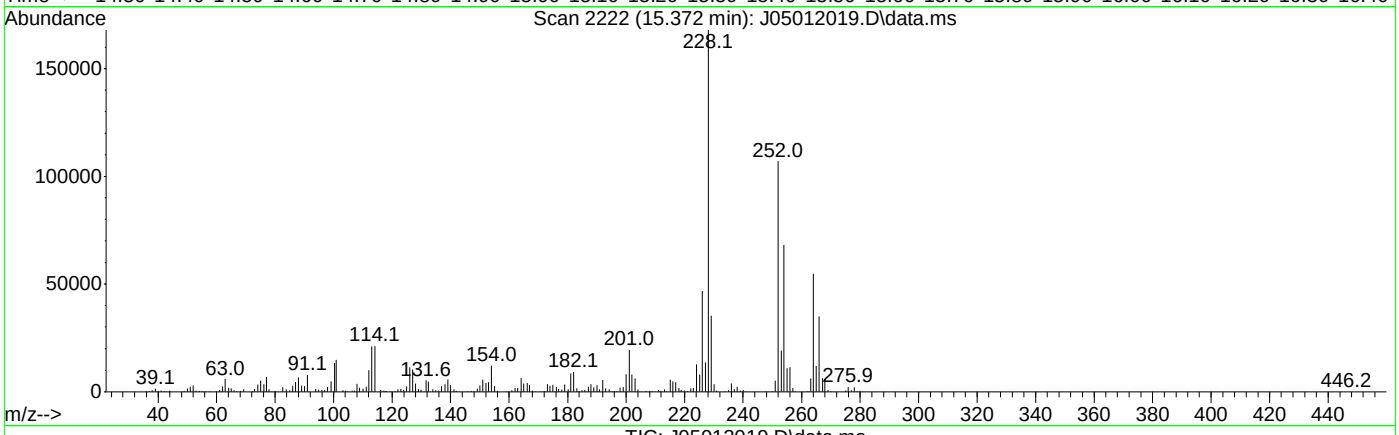
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	83.55
77.00	61.50	67.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.372min (+ 0.037) 11922.66 ng/ml

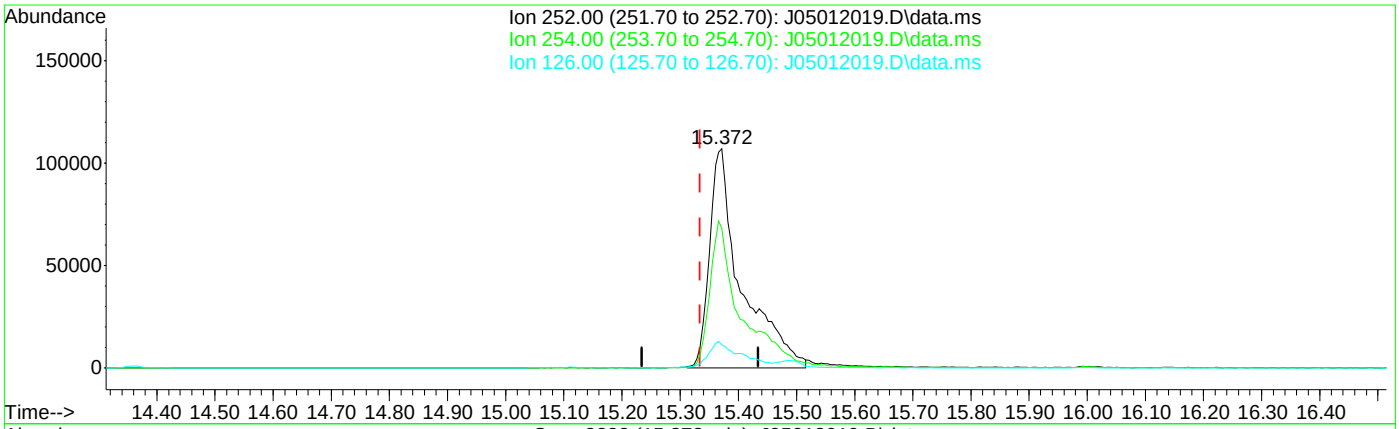
response 347008

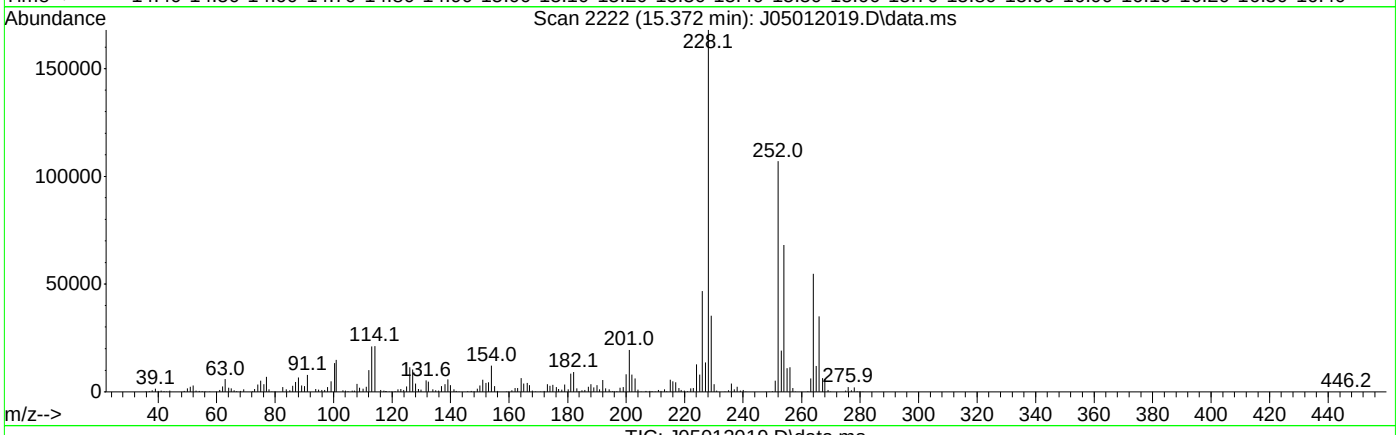
Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	63.63
126.00	13.30	10.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012019.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.372min (+ 0.037) 13598.23 ng/ml m

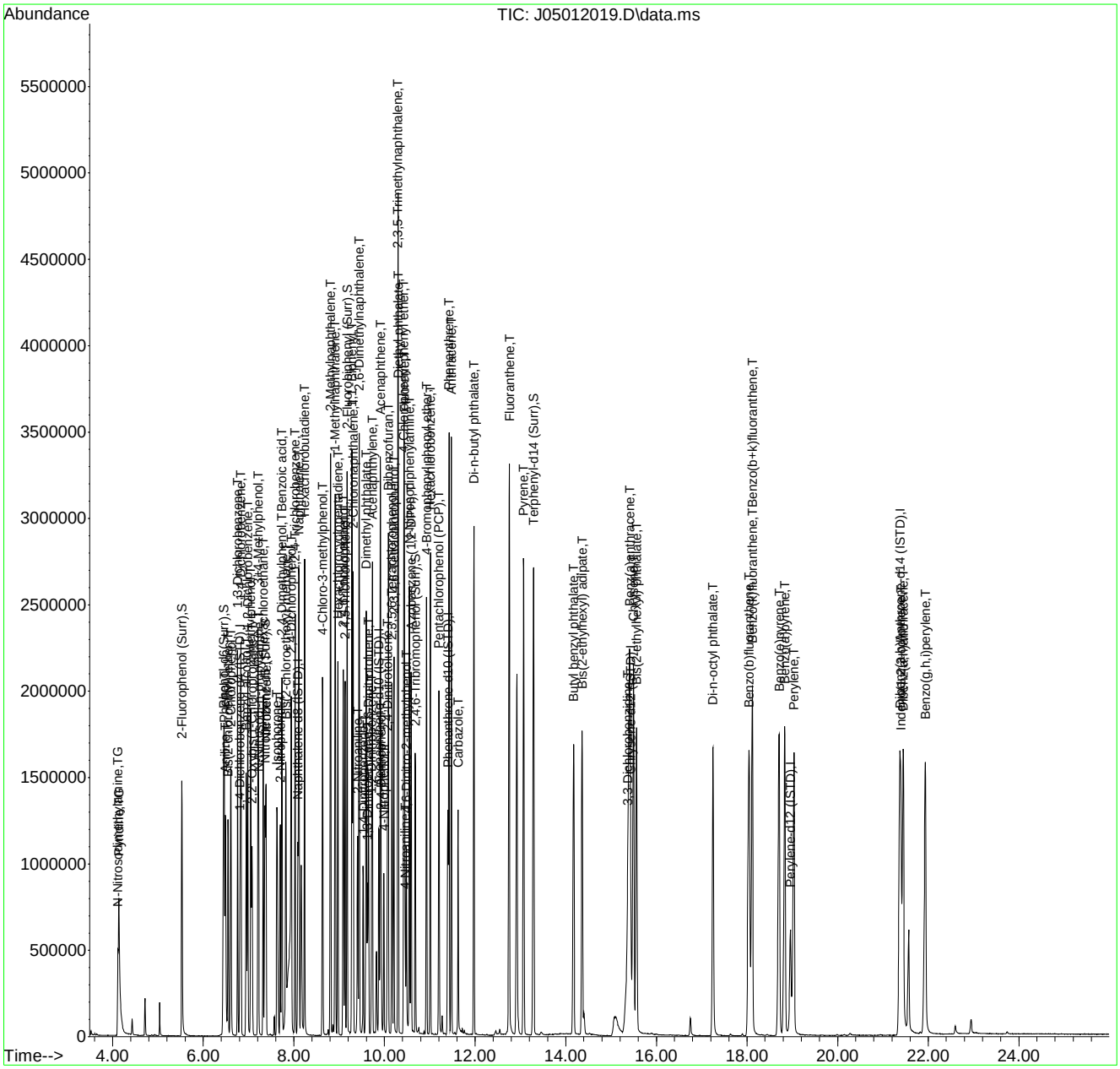
response 405603

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	63.63
126.00	13.30	10.54
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012019.D
Acq On : 1 May 2020 9:46 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CAL9
Misc : 1x, A20D251@6000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 04 11:09:20 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.814	152	163128	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.087	136	607439	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.878	162	313797	2000.00	ng/ml	0.01
64) Phenanthrene-d10 (ISTD)	11.397	188	618950	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.436	240	579608	2000.00	ng/ml	0.03
86) Perylene-d12 (ISTD)	18.966	264	589023	2000.00	ng/ml	0.04
94) Dibenz(a,h)Anthrcene-d...	21.383	292	540731	2000.00	ng/ml	0.05
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.530	112	828011	8412.02	ng/ml	0.00
5) Phenol-d6(Surr)	6.455	99	948776	8236.83	ng/ml	0.02
19) Nitrobenzene-d5 (Surr)	7.365	82	719111	8343.57	ng/ml	0.01
40) 2-Fluorobiphenyl (Surr)	9.178	172	1596212	6820.45	ng/ml	0.01
67) 2,4,6-Tribromophenol (...	10.686	330	380681	7931.48	ng/ml	0.02
79) Terphenyl-d14 (Surr)	13.291	244	2208764	8209.57	ng/ml	0.02
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.129	74	504946	8193.45	ng/ml	88
3) Pyridine	4.150	79	871278	7871.09	ng/ml	94
6) Phenol	6.471	94	974066	7897.43	ng/ml	80
7) Aniline	6.493	93	1093109	Below Cal		96
8) Bis(2-chloroethyl) ether	6.552	93	743153	6163.72	ng/ml	93
9) 2-Chlorophenol	6.610	128	858273	8060.56	ng/ml	98
10) 1,3-Dichlorobenzene	6.760	146	947173	7303.71	ng/ml	97
11) 1,4-Dichlorobenzene	6.830	146	913373	7108.20	ng/ml	98
12) Benzyl alcohol	6.958	108	519355	7398.29	ng/ml	93
13) 1,2-Dichlorobenzene	6.985	146	864319	6879.83	ng/ml	96
14) 2-Methylphenol	7.054	107	577925	7354.95	ng/ml	98
15) 2,2'-Oxybis(1-Chloropr...	7.076	45	548150	6668.80	ng/ml	92
16) N-Nitrosodi-n-propylamine	7.226	70	442984	7361.08	ng/ml	100
17) 3+4-Methylphenol	7.215	107	709231	7450.30	ng/ml	95
18) Hexachloroethane	7.322	201	359667	8592.14	ng/ml	92
20) Nitrobenzene	7.386	77	675628	7946.39	ng/ml	97
22) Isophorone	7.637	82	1387142	8033.78	ng/ml	99
23) 2-Nitrophenol	7.702	139	470113	7831.35	ng/ml	89
24) 2,4-Dimethylphenol	7.744	122	624108	7492.55	ng/ml	93

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.830	93	762034	6766.75	ng/ml	99
26) Benzoic acid	7.744	105	20847	1265.82	ng/ml#See Mi	1
27) 2,4-Dichlorophenol	7.948	162	670509	7628.29	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.028	180	760344	7244.94	ng/ml	96
29) Naphthalene	8.113	128	2025811	6432.47	ng/ml	97
30) 4-Chloroaniline	8.162	127	713100	Below Cal		96
31) Hexachlorobutadiene	8.236	225	495957	8409.71	ng/ml	99
32) 4-Chloro-3-methylphenol	8.638	107	629786	7428.31	ng/ml	98
33) 2-Methylnaphthalene	8.809	142	1471994	6700.56	ng/ml	96
34) 1-Methylnaphthalene	8.910	142	1344642	6520.96	ng/ml	96
36) Hexachlorocyclopentadiene	8.975	237	536854	8948.72	ng/ml	98
37) 2,4,6-Trichlorophenol	9.092	196	526956	8079.00	ng/ml	98
38) 2,4,5-Trichlorophenol	9.130	198	495222	8028.28	ng/ml	97
39) 1,1'-Biphenyl	9.285	154	1633908	6458.88	ng/ml	99
41) 2-Chloronaphthalene	9.312	162	1278066	6585.10	ng/ml	94
42) 2-Nitroaniline	9.413	138	490776	8772.38	ng/ml	94
43) 2,6-Dimethylnaphthalene	9.445	156	1220442	6625.02	ng/ml	95
44) 1,4-Dinitrobenzene	9.536	168	267475	7917.22	ng/ml	96
45) Dimethyl phthalate	9.600	163	1572205	7259.97	ng/ml	97
46) 1,3-Dinitrobenzene	9.627	168	290499	8090.61	ng/ml	94
47) 2,6-Dinitrotoluene	9.654	165	393388	7928.13	ng/ml	90
48) 1,2-Dinitrobenzene	9.723	168	187132	8484.87	ng/ml	84
49) Acenaphthylene	9.734	152	1874093	6222.88	ng/ml	99
50) 3-Nitroaniline	9.830	138	210733	Below Cal		95
51) Acenaphthene	9.916	153	1314111	6458.22	ng/ml	99
52) 2,4-Dinitrophenol	9.932	184	222605	8401.95	ng/ml	93
53) 4-Nitrophenol	9.996	139	328927	7847.04	ng/ml	86
54) 2,4-Dinitrotoluene	10.071	165	528085	8343.21	ng/ml	94
55) Dibenzofuran	10.087	168	1853746	6705.04	ng/ml	92
56) 2,3,5,6-Tetrachlorophenol	10.167	232	473333	8068.59	ng/ml	99
57) 2,3,4,6-Tetrachlorophenol	10.210	232	465875	8173.72	ng/ml	98
58) Diethyl phthalate	10.312	149	1270464	6186.35	ng/ml	95
59) 2,3,5-Trimethylnaphtha...	10.301	170	1081008	6398.18	ng/ml	96
60) Fluorene	10.440	166	1419760	6574.34	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.429	204	801674	7503.20	ng/ml	98
62) 4-Nitroaniline	10.461	138	273695	7027.83	ng/ml	88
63) 4,6-Dinitro-2-methylph...	10.494	198	306192	8171.33	ng/ml	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.552	169	1205586	6495.23 ng/ml	99
66) Azobenzene (1,2-DPH)	10.595	77	1110225	6371.87 ng/ml	89
68) 4-Bromophenyl phenyl e...	10.932	248	588449	8115.69 ng/ml	96
69) Hexachlorobenzene	11.012	284	672890	7449.99 ng/ml	98
70) Pentachlorophenol (PCP)	11.205	266	425010	8008.52 ng/ml	99
71) Phenanthrene	11.424	178	2205671	6470.98 ng/ml	97
72) Anthracene	11.483	178	2197141	6577.70 ng/ml	97
73) Carbazole	11.627	167	1042183	3829.83 ng/ml	98
74) Di-n-butyl phthalate	11.975	149	2399103	6711.74 ng/ml	98
75) Fluoranthene	12.761	202	2637205	7381.87 ng/ml	94
76) Benzidine	12.927	184	2171552	Below Cal	97
77) Pyrene	13.077	202	2616481	7104.52 ng/ml	97
80) Butyl benzyl phthalate	14.179	149	1186472	7506.20 ng/ml	94
81) Bis(2-ethylhexyl) adipate	14.366	129	982873	7321.01 ng/ml	97
82) 3,3-Dichlorobenzidine	15.377	252	456014	14457.08 ng/ml	See MI97
83) Benz(a)anthracene	15.414	228	2560645	7814.06 ng/ml	98
84) Chrysene	15.505	228	2318563	7685.39 ng/ml	98
85) Bis(2-ethylhexyl) phth...	15.569	149	1495426	7951.15 ng/ml	95
87) Di-n-octyl phthalate	17.260	149	2730088	7509.37 ng/ml	97
88) Benzo(b)fluoranthene	18.062	252	2786424	7406.47 ng/ml	97
89) Benzo(k)fluoranthene	18.131	252	2426885	8497.15 ng/ml	96
90) Benzo(b+k)fluoranthene	18.131	252	5326709	15358.90 ng/ml	96
91) Benzo(e)pyrene	18.725	252	2485374	7600.53 ng/ml	97
92) Benzo(a)pyrene	18.848	252	2233306	7517.34 ng/ml	99
93) Perylene	19.051	252	2173662	7711.78 ng/ml	98
95) Indeno(1,2,3-cd)pyrene	21.405	276	2652583	8286.57 ng/ml	92
96) Dibenz(a,h)anthracene	21.464	278	2315467	8090.12 ng/ml	92
97) Benzo(g,h,i)perylene	21.956	276	2433679	7784.16 ng/ml	91

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
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Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
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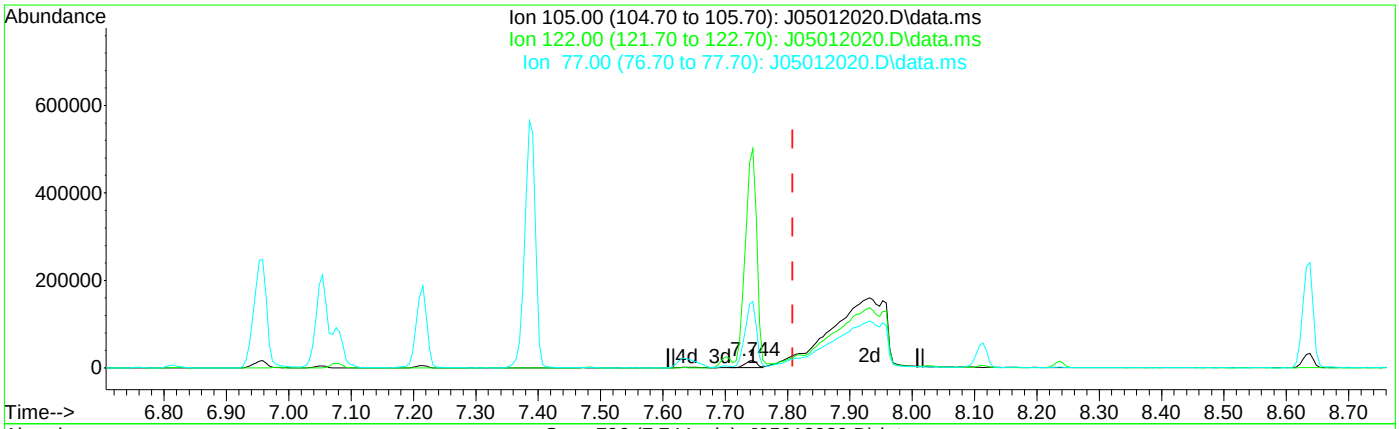
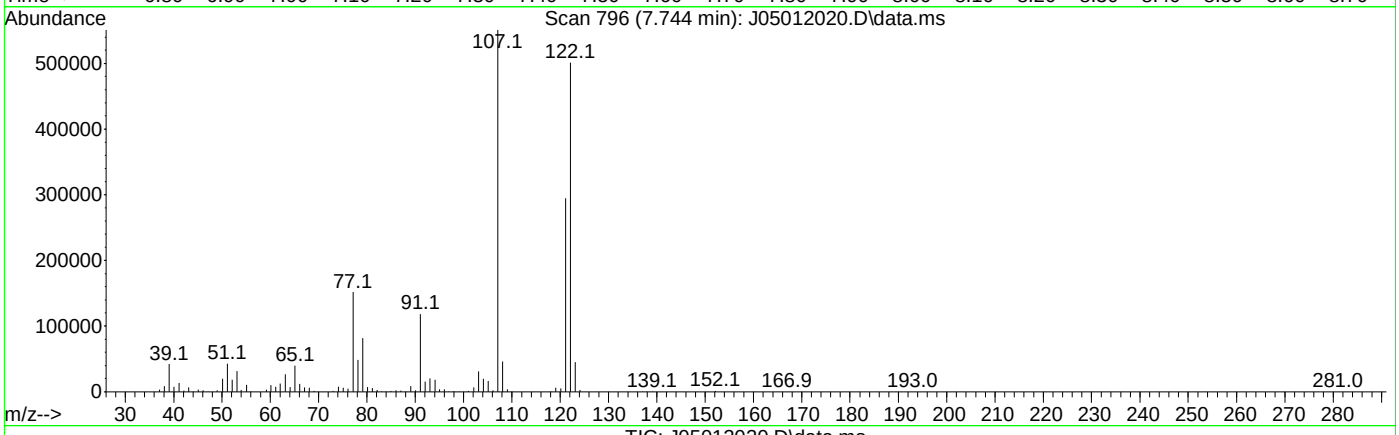
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(26) Benzoic acid (T)

7.744min (-0.064) 1265.82 ng/ml

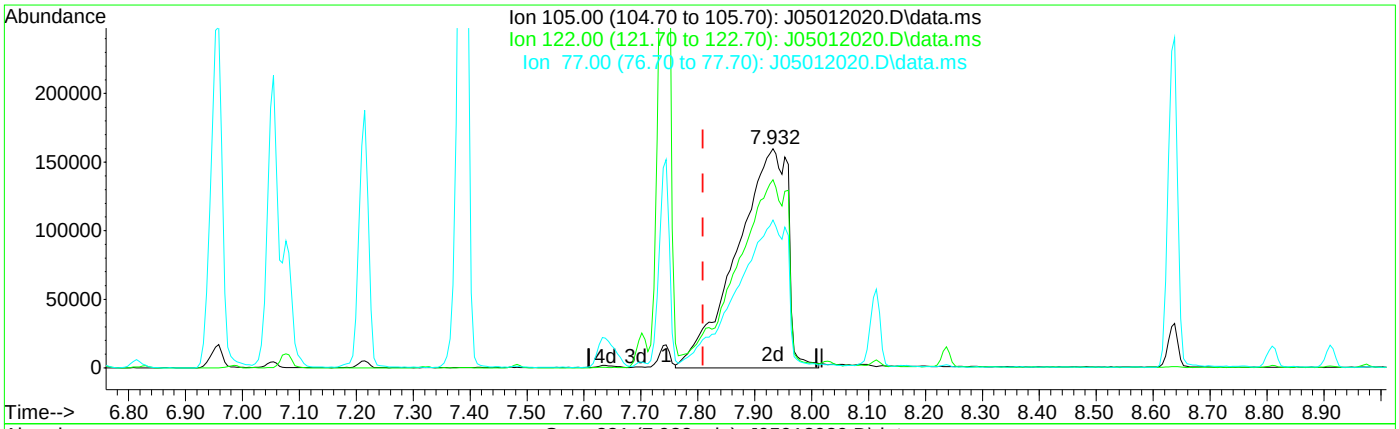
response 20847

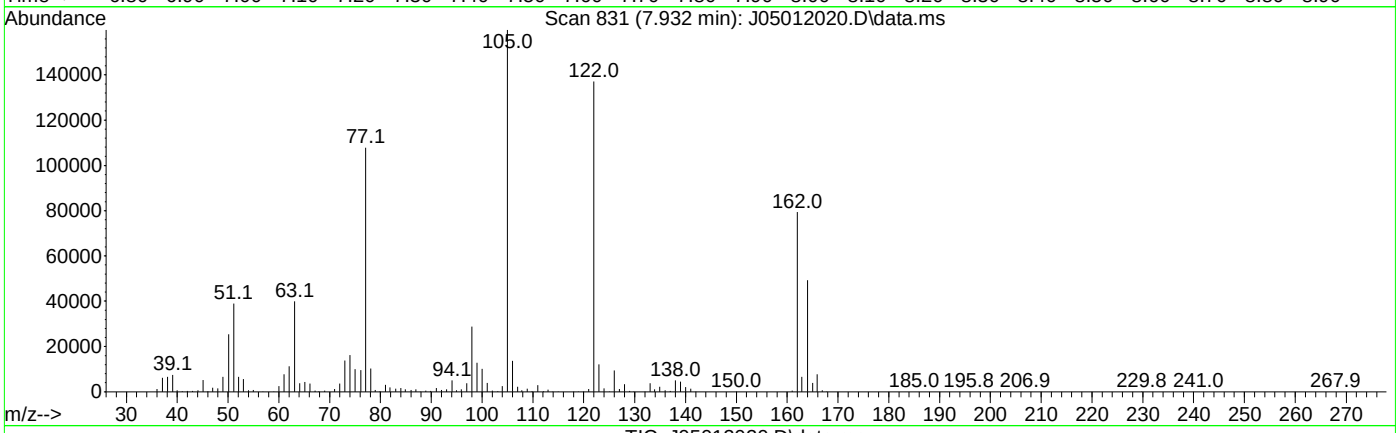
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	3008.35#
77.00	61.50	910.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(26) Benzoic acid (T)

7.932min (+ 0.123) 15095.28 ng/ml m

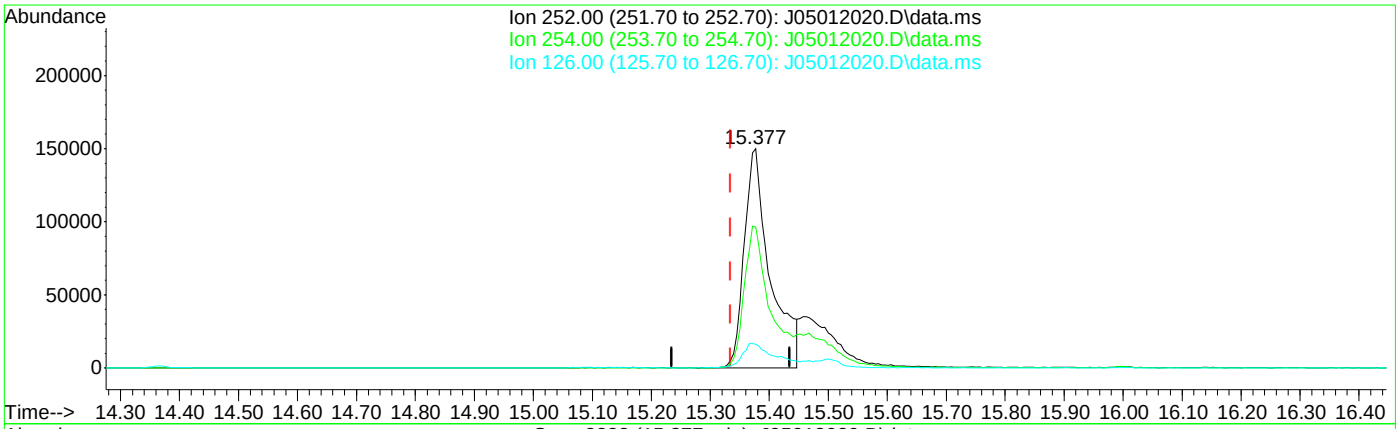
response 992195

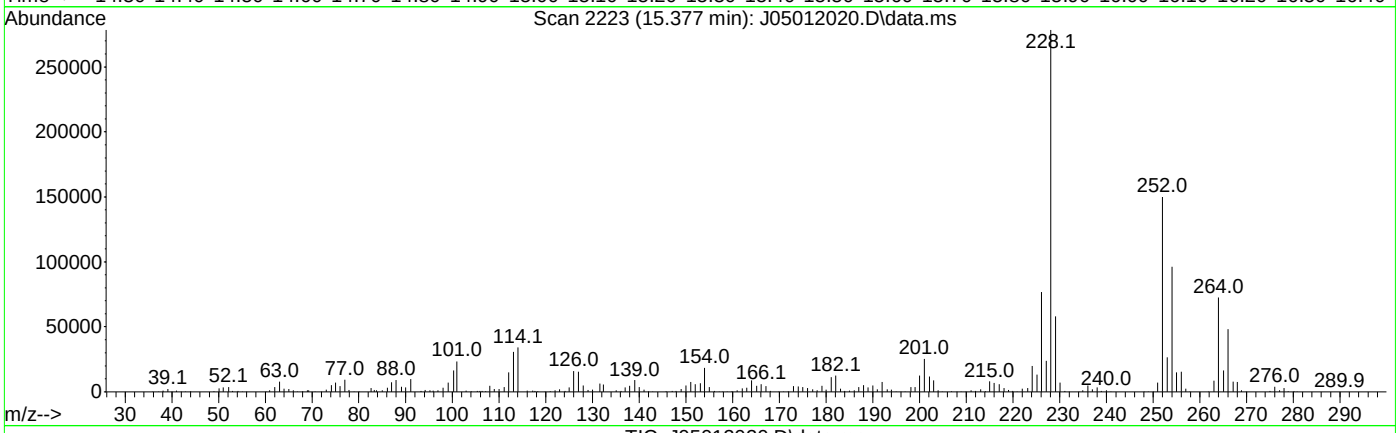
Ion	Exp%	Act%
105.00	100.00	100.00
122.00	88.90	85.78
77.00	61.50	67.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.377min (+ 0.043) 14457.08 ng/ml

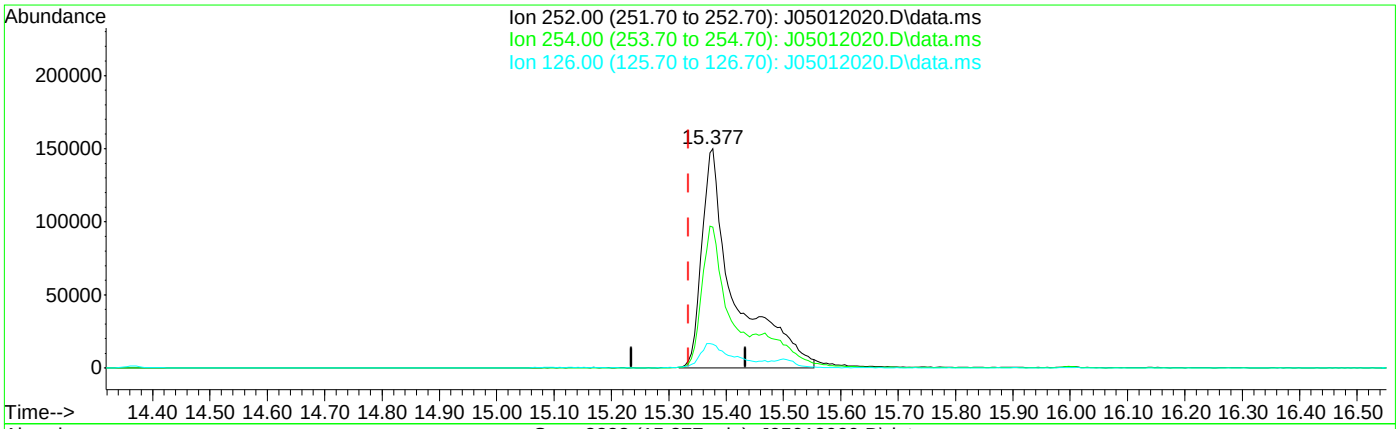
response 456014

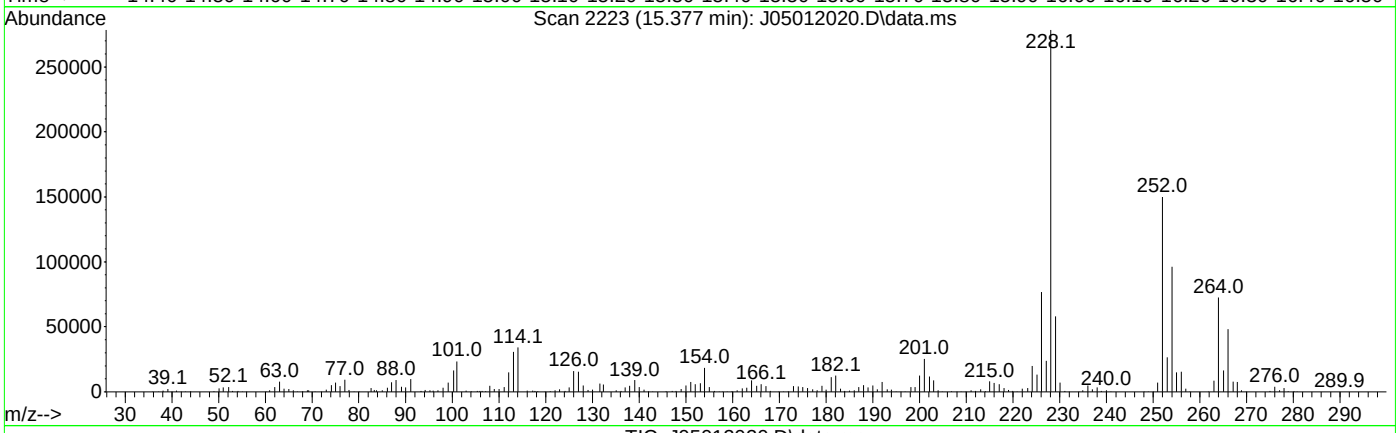
Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.19
126.00	13.30	10.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration





TIC: J05012020.D\data.ms

(82) 3,3-Dichlorobenzidine (T)

15.377min (+ 0.043) 17953.88 ng/ml m

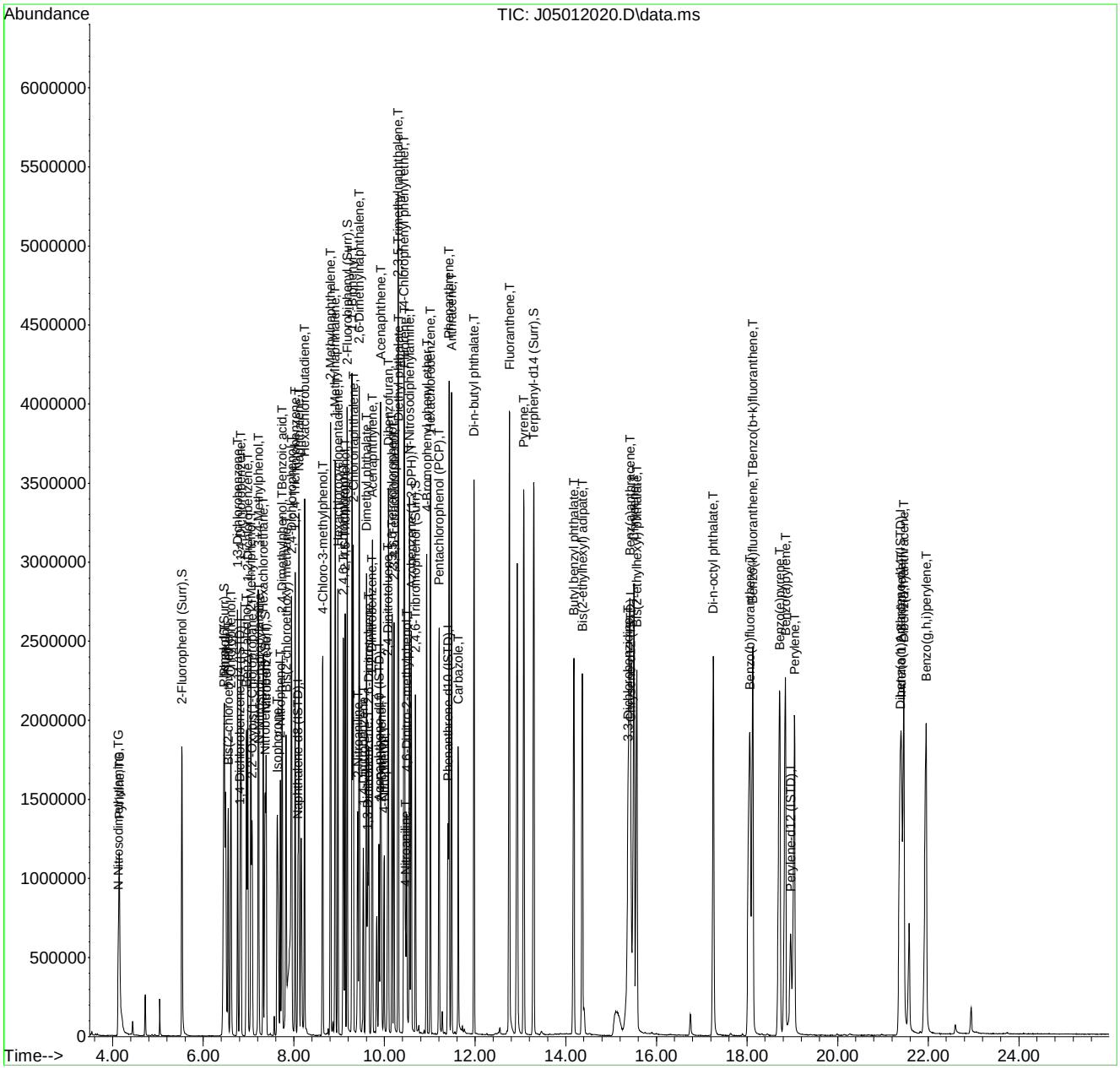
response 596438

Ion	Exp%	Act%
252.00	100.00	100.00
254.00	62.60	64.19
126.00	13.30	10.70
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012020.D
Acq On : 1 May 2020 10:21 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-CALA
Misc : 1x, A20D252@8000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 04 11:10:21 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	180023	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	696290	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	360502	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	649765	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.420	240	633809	2000.00	ng/ml	0.02
86) Perylene-d12 (ISTD)	18.950	264	601034	2000.00	ng/ml	0.02
94) Dibenz(a,h)Anthrcene-d...	21.351	292	505867	2000.00	ng/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	119165	1097.02	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	147152	1157.61	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	116417	1223.98	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.172	172	300880	1119.07	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.675	330	51397	1249.76	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.280	244	323981	1101.20	ng/ml	0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.097	74	71767m	1055.23	ng/ml	
3) Pyridine	4.129	79	109455	997.03	ng/ml	95
6) Phenol	6.445	94	164407	1207.86	ng/ml	91
7) Aniline	6.477	93	142428	1663.59	ng/ml	96
8) Bis(2-chloroethyl) ether	6.536	93	134293	1009.30	ng/ml	95
9) 2-Chlorophenol	6.600	128	136512	1161.75	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	153312	1071.25	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	151306	1067.01	ng/ml	98
12) Benzyl alcohol	6.937	108	72680	979.40	ng/ml	96
13) 1,2-Dichlorobenzene	6.979	146	148815	1073.37	ng/ml	98
14) 2-Methylphenol	7.038	107	103180	1189.88	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	104143	1148.10	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.199	70	79272	1193.64	ng/ml	97
17) 3+4-Methylphenol	7.193	107	131137	1248.28	ng/ml	97
18) Hexachloroethane	7.316	201	54980	1190.16	ng/ml	99
20) Nitrobenzene	7.370	77	116940	1246.31	ng/ml	97
22) Isophorone	7.605	82	225073	1137.20	ng/ml	98
23) 2-Nitrophenol	7.691	139	76483	1330.36	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	101786	1066.03	ng/ml	95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	139907	1083.82	ng/ml	99
26) Benzoic acid	7.814	105	74029	2117.57	ng/ml	95
27) 2,4-Dichlorophenol	7.932	162	115818	1178.27	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.023	180	133493	1109.67	ng/ml	98
29) Naphthalene	8.103	128	395766	1096.30	ng/ml	100
30) 4-Chloroaniline	8.146	127	138876	1781.44	ng/ml	97
31) Hexachlorobutadiene	8.231	225	81995	1212.93	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	100251	1122.15	ng/ml	97
33) 2-Methylnaphthalene	8.803	142	286345	1137.12	ng/ml	98
34) 1-Methylnaphthalene	8.905	142	273645	1157.72	ng/ml	97
36) Hexachlorocyclopentadiene	8.975	237	82814	1368.29	ng/ml	99
37) 2,4,6-Trichlorophenol	9.087	196	79364	1132.33	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	81578	1144.67	ng/ml	100
39) 1,1'-Biphenyl	9.274	154	328464	1130.21	ng/ml	98
41) 2-Chloronaphthalene	9.301	162	252046	1130.39	ng/ml	97
42) 2-Nitroaniline	9.392	138	75035	1167.45	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	240228	1135.10	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	35727	1175.94	ng/ml	97
45) Dimethyl phthalate	9.574	163	282536	1135.64	ng/ml	99
46) 1,3-Dinitrobenzene	9.606	168	41835	1117.11	ng/ml	95
47) 2,6-Dinitrotoluene	9.632	165	64471	1144.39	ng/ml	92
48) 1,2-Dinitrobenzene	9.697	168	29688	1171.71	ng/ml	96
49) Acenaphthylene	9.723	152	393104	1136.19	ng/ml	99
50) 3-Nitroaniline	9.809	138	53233	1330.10	ng/ml	92
51) Acenaphthene	9.905	153	250909	1073.34	ng/ml	99
52) 2,4-Dinitrophenol	9.916	184	15623	1290.60	ng/ml	99
53) 4-Nitrophenol	9.964	139	40369	1032.71	ng/ml	86
54) 2,4-Dinitrotoluene	10.050	165	79595	1143.91	ng/ml	95
55) Dibenzofuran	10.076	168	344038	1083.17	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.157	232	67059	1264.95	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	10.199	232	71513	1240.57	ng/ml	99
58) Diethyl phthalate	10.290	149	252486	1070.16	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.290	170	216538	1115.59	ng/ml	95
60) Fluorene	10.429	166	264916	1067.79	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	133216	1085.29	ng/ml	96
62) 4-Nitroaniline	10.435	138	38255	855.03	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.467	198	33547	1371.38	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration

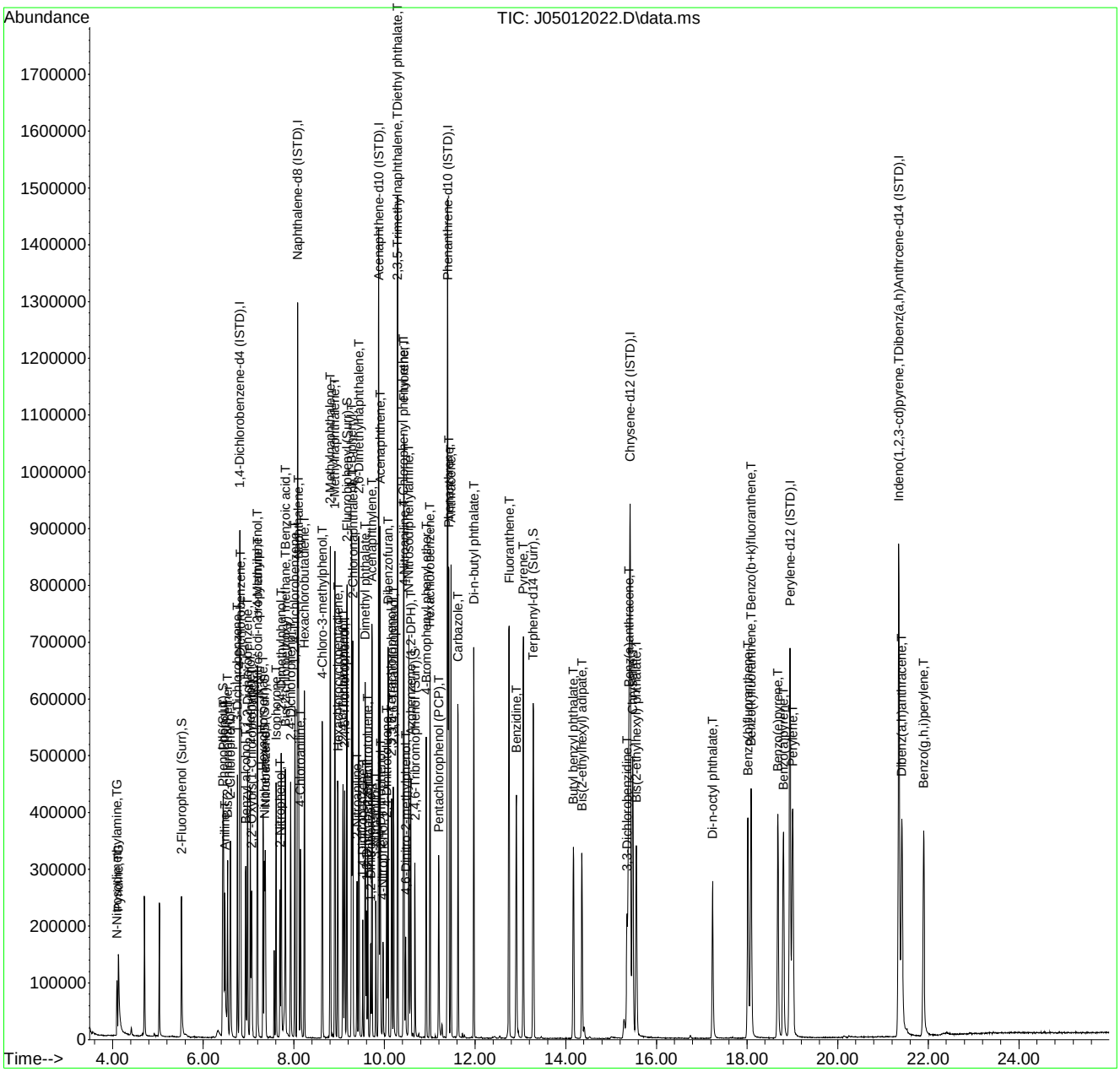
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	219644	1127.24	ng/ml	99
66) Azobenzene (1,2-DPH)	10.584	77	196742	1075.60	ng/ml	97
68) 4-Bromophenyl phenyl e...	10.921	248	84868	1114.96	ng/ml	99
69) Hexachlorobenzene	11.002	284	106186	1119.90	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	48576	1225.58	ng/ml	100
71) Phenanthrene	11.419	178	387103	1081.82	ng/ml	99
72) Anthracene	11.467	178	384415	1096.26	ng/ml	99
73) Carbazole	11.622	167	304625	1066.35	ng/ml	99
74) Di-n-butyl phthalate	11.970	149	387289	1032.10	ng/ml	99
75) Fluoranthene	12.751	202	429221	1144.47	ng/ml	97
76) Benzidine	12.911	184	245551	4113.12	ng/ml	97
77) Pyrene	13.066	202	431711	1116.63	ng/ml	99
80) Butyl benzyl phthalate	14.168	149	147273	986.79	ng/ml	97
81) Bis(2-ethylhexyl) adipate	14.355	129	116223	902.50	ng/ml	98
82) 3,3-Dichlorobenzidine	15.355	252	102426	3270.71	ng/ml	96
83) Benz(a)anthracene	15.393	228	366477	1022.70	ng/ml	98
84) Chrysene	15.479	228	356254	1079.90	ng/ml	100
85) Bis(2-ethylhexyl) phth...	15.559	149	198143	963.43	ng/ml	96
87) Di-n-octyl phthalate	17.244	149	285782	839.38	ng/ml	98
88) Benzo(b)fluoranthene	18.024	252	358551	1093.53	ng/ml	97
89) Benzo(k)fluoranthene	18.089	252	357907	1080.12	ng/ml	97
90) Benzo(b+k)fluoranthene	18.089	252	736112	2161.63	ng/ml	97
91) Benzo(e)pyrene	18.682	252	336483	1059.52	ng/ml	99
92) Benzo(a)pyrene	18.805	252	303653	1110.43	ng/ml	97
93) Perylene	19.009	252	353777	1230.06	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.351	276	299618	1000.50	ng/ml	92
96) Dibenz(a,h)anthracene	21.415	278	292798	1093.53	ng/ml	94
97) Benzo(g,h,i)perylene	21.897	276	315566	1051.07	ng/ml	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 04 11:11:25 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 10:59:59 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

JK 5/5/20

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Final Requant

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4...	6.808	152	180023	2000.00	ng/ml	0.00
21) Naphthalene-d8 (ISTD)	8.081	136	696290	2000.00	ng/ml	0.00
35) Acenaphthene-d10 (ISTD)	9.873	162	360502	2000.00	ng/ml	0.00
64) Phenanthrene-d10 (ISTD)	11.392	188	649765	2000.00	ng/ml	0.00
78) Chrysene-d12 (ISTD)	15.420	240	633809	2000.00	ng/ml	0.02
86) Perylene-d12 (ISTD)	18.950	264	601034	2000.00	ng/ml	0.02
94) Dibenz(a,h)Anthrcene-d...	21.351	292	505867	2000.00	ng/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (Surr)	5.525	112	119165	1090.39	ng/ml	0.00
5) Phenol-d6(Surr)	6.434	99	147152	1143.74	ng/ml	0.00
19) Nitrobenzene-d5 (Surr)	7.354	82	116417	1147.14	ng/ml	0.00
40) 2-Fluorobiphenyl (Surr)	9.172	172	300880	1047.64	ng/ml	0.00
67) 2,4,6-Tribromophenol (...	10.675	330	51397	1114.45	ng/ml	0.00
79) Terphenyl-d14 (Surr)	13.280	244	323981	1053.12	ng/ml	0.01
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	4.097	74	71767m	1108.56	ng/ml	
3) Pyridine	4.129	79	109455	1032.74	ng/ml	95
6) Phenol	6.445	94	164407	1230.47	ng/ml	91
7) Aniline	6.477	93	142428	1062.63	ng/ml	96
8) Bis(2-chloroethyl) ether	6.536	93	134293	1131.85	ng/ml	95
9) 2-Chlorophenol	6.600	128	136512	1126.54	ng/ml	98
10) 1,3-Dichlorobenzene	6.755	146	153312	1041.87	ng/ml	97
11) 1,4-Dichlorobenzene	6.824	146	151306	1061.40	ng/ml	98
12) Benzyl alcohol	6.937	108	72680	1114.55	ng/ml	96
13) 1,2-Dichlorobenzene	6.979	146	148815	1084.34	ng/ml	98
14) 2-Methylphenol	7.038	107	103180	1185.83	ng/ml	97
15) 2,2'-Oxybis(1-Chloropr...	7.070	45	104143	1126.03	ng/ml	98
16) N-Nitrosodi-n-propylamine	7.199	70	79272	1174.89	ng/ml	97
17) 3+4-Methylphenol	7.193	107	131137	1202.52	ng/ml	97
18) Hexachloroethane	7.316	201	54980	1079.19	ng/ml	99
20) Nitrobenzene	7.370	77	116940	1157.93	ng/ml	97
22) Isophorone	7.605	82	225073	1100.11	ng/ml	98
23) 2-Nitrophenol	7.691	139	76483	1165.74	ng/ml	90
24) 2,4-Dimethylphenol	7.723	122	101786	1021.47	ng/ml	95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Bis(2-chloroethoxy) me...	7.814	93	139907	1101.95	ng/ml	99
26) Benzoic acid	7.814	105	74029	2143.15	ng/ml	95
27) 2,4-Dichlorophenol	7.932	162	115818	1152.76	ng/ml	99
28) 1,2,4-Trichlorobenzene	8.023	180	133493	1049.72	ng/ml	98
29) Naphthalene	8.103	128	395766	1064.03	ng/ml	100
30) 4-Chloroaniline	8.146	127	138876	1182.10	ng/ml	97
31) Hexachlorobutadiene	8.231	225	81995	1050.38	ng/ml	99
32) 4-Chloro-3-methylphenol	8.627	107	100251	1145.59	ng/ml	97
33) 2-Methylnaphthalene	8.803	142	286345	1131.32	ng/ml	98
34) 1-Methylnaphthalene	8.905	142	273645	1151.88	ng/ml	97
36) Hexachlorocyclopentadiene	8.975	237	82814	1124.00	ng/ml	99
37) 2,4,6-Trichlorophenol	9.087	196	79364	1067.91	ng/ml	98
38) 2,4,5-Trichlorophenol	9.119	198	81578	1101.86	ng/ml	100
39) 1,1'-Biphenyl	9.274	154	328464	1083.66	ng/ml	98
41) 2-Chloronaphthalene	9.301	162	252046	1070.55	ng/ml	97
42) 2-Nitroaniline	9.392	138	75035	1147.62	ng/ml	91
43) 2,6-Dimethylnaphthalene	9.435	156	240228	1090.69	ng/ml	97
44) 1,4-Dinitrobenzene	9.520	168	35727	1102.15	ng/ml	97
45) Dimethyl phthalate	9.574	163	282536	1088.34	ng/ml	99
46) 1,3-Dinitrobenzene	9.606	168	41835	1090.53	ng/ml	95
47) 2,6-Dinitrotoluene	9.632	165	64471	1100.77	ng/ml	92
48) 1,2-Dinitrobenzene	9.697	168	29688	1097.99	ng/ml	96
49) Acenaphthylene	9.723	152	393104	1124.21	ng/ml	99
50) 3-Nitroaniline	9.809	138	53233	1018.91	ng/ml	92
51) Acenaphthene	9.905	153	250909	1062.84	ng/ml	99
52) 2,4-Dinitrophenol	9.916	184	15623	985.13	ng/ml	99
53) 4-Nitrophenol	9.964	139	40369	1051.72	ng/ml	86
54) 2,4-Dinitrotoluene	10.050	165	79595	1057.79	ng/ml	95
55) Dibenzofuran	10.076	168	344038	1053.85	ng/ml	97
56) 2,3,5,6-Tetrachlorophenol	10.157	232	67059	1085.62	ng/ml	100
57) 2,3,4,6-Tetrachlorophenol	10.199	232	71513	1084.07	ng/ml	99
58) Diethyl phthalate	10.290	149	252486	1027.40	ng/ml	99
59) 2,3,5-Trimethylnaphtha...	10.290	170	216538	1075.29	ng/ml	95
60) Fluorene	10.429	166	264916	1053.88	ng/ml	99
61) 4-Chlorophenyl phenyl ...	10.419	204	133216	1017.01	ng/ml	96
62) 4-Nitroaniline	10.435	138	38255	987.35	ng/ml	89
63) 4,6-Dinitro-2-methylph...	10.467	198	33547	1002.76	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration

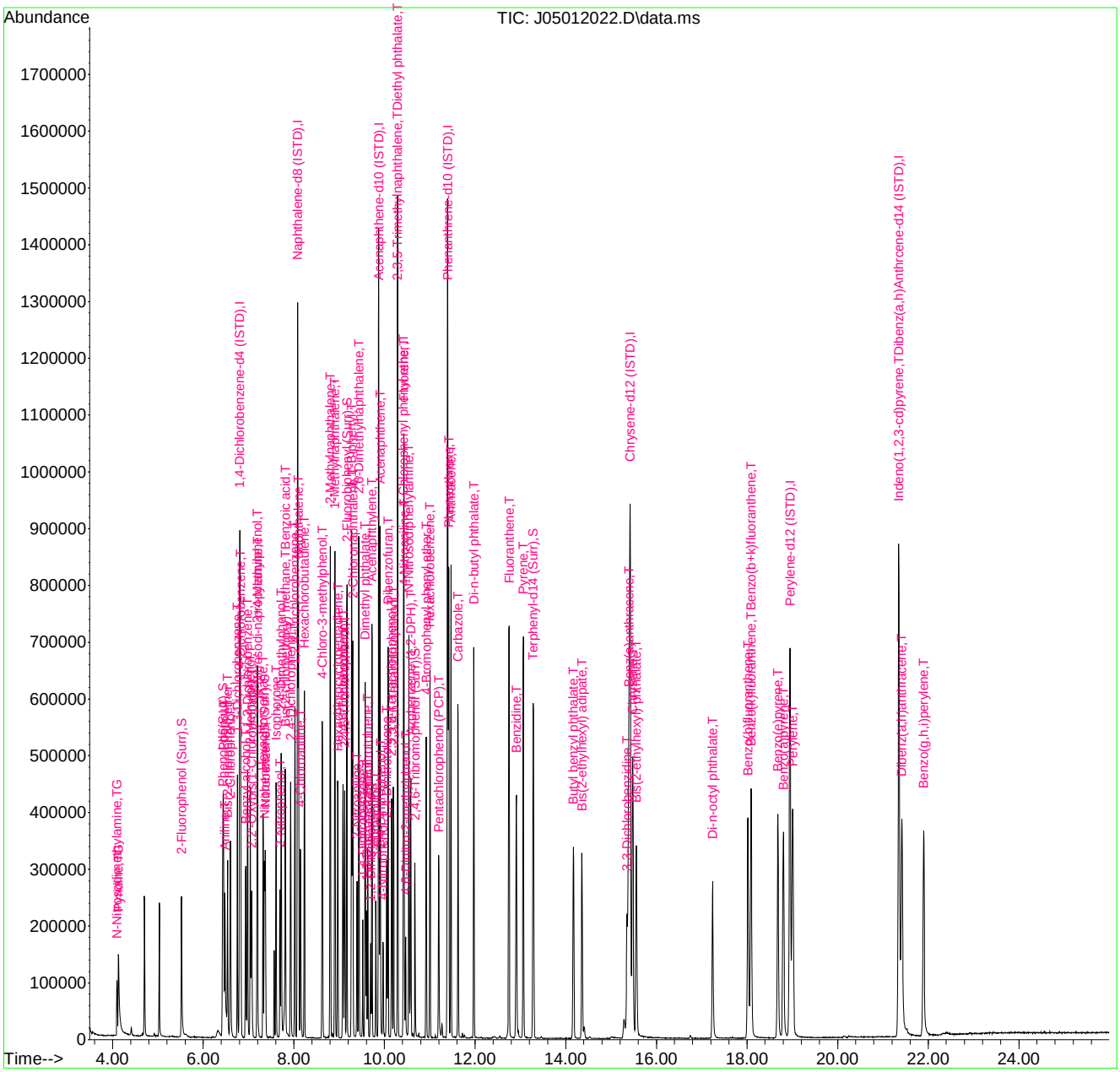
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) N-Nitrosodiphenylamine	10.536	169	219644	1112.25	ng/ml	99
66) Azobenzene (1,2-DPH)	10.584	77	196742	1093.44	ng/ml	97
68) 4-Bromophenyl phenyl e...	10.921	248	84868	1045.46	ng/ml	99
69) Hexachlorobenzene	11.002	284	106186	1020.87	ng/ml	97
70) Pentachlorophenol (PCP)	11.200	266	48576	1108.71	ng/ml	100
71) Phenanthrene	11.419	178	387103	1058.61	ng/ml	99
72) Anthracene	11.467	178	384415	1094.79	ng/ml	99
73) Carbazole	11.622	167	304625	1041.55	ng/ml	99
74) Di-n-butyl phthalate	11.970	149	387289	1059.40	ng/ml	99
75) Fluoranthene	12.751	202	429221	1093.71	ng/ml	97
76) Benzidine	12.911	184	245551	1830.36	ng/ml	97
77) Pyrene	13.066	202	431711	1099.15	ng/ml	99
80) Butyl benzyl phthalate	14.168	149	147273	1091.88	ng/ml	97
81) Bis(2-ethylhexyl) adipate	14.355	129	116223	945.39	ng/ml	98
82) 3,3-Dichlorobenzidine	15.355	252	102426	2016.55	ng/ml	96
83) Benz(a)anthracene	15.393	228	366477	1019.74	ng/ml	98
84) Chrysene	15.479	228	356254	1052.42	ng/ml	100
85) Bis(2-ethylhexyl) phth...	15.559	149	198143	1015.55	ng/ml	96
87) Di-n-octyl phthalate	17.244	149	285782	1020.61	ng/ml	98
88) Benzo(b)fluoranthene	18.024	252	358551	1096.89	ng/ml	97
89) Benzo(k)fluoranthene	18.089	252	357810	1082.65	ng/ml	97
90) Benzo(b+k)fluoranthene	18.089	252	736112	2160.40	ng/ml	97
91) Benzo(e)pyrene	18.682	252	336483	1120.08	ng/ml	99
92) Benzo(a)pyrene	18.805	252	303653	1112.92	ng/ml	97
93) Perylene	19.009	252	353777	1221.85	ng/ml	99
95) Indeno(1,2,3-cd)pyrene	21.351	276	299618	1018.76	ng/ml	92
96) Dibenz(a,h)anthracene	21.415	278	292798	1071.36	ng/ml	94
97) Benzo(g,h,i)perylene	21.897	276	315566	1133.57	ng/ml	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-05\0E01048\
Data File : J05012022.D
Acq On : 1 May 2020 11:31 pm
Operator : JK/ AMS/ DTH
Sample : 0E01048-ICV1
Misc : 1x, A20C090@1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 05 14:50:51 2020
Quant Method : C:\msdchem\1\methods\SV10_050120.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon May 04 11:17:09 2020
Response via : Initial Calibration



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

Total Metals by EPA 6020A (ICPMS)
Benchsheet Data and Analysis (Including Calibration)

Batch 0060121
Sequence 0F03039

APEX LABORATORIES

Ag (Silver) - 6020 - Total
As (Arsenic) - 6020 - Total
Ba (Barium) - 6020 - Total
Cd (Cadmium) - 6020 - Total
Cr (Chromium) - 6020 - Total
Cu (Copper) - 6020 - Total
Fe (Iron) - 6020 - Total
Hg (Mercury) - 6020 - Total

PREPARATION BENCH SHEET

JUN 0 9 2020

0060121

Apex Laboratories

BATCH #: 0060121 (Water)

Prep Method: EPA 3015A

Lab Number	Due	Prepared	Initial (mL)	Final (mL)	Client	ClientID / Sample	Extraction Comments
0060121-BLK1		06/03/20 10:37	45	50	QC Sample		
0060121-BS1		06/03/20 10:37	45	50	QC Sample		
	Spike 1: 500 uL of A20E254	Spike 2: 50 uL of A20D274					
A0E0653-01	06/04/20	06/03/20 10:37	5	50	NW Natural	Rinsate	See Marshall. Use 5 mL
☐ Ag (Silver) - 6020 - Total ☐ As (Arsenic) - 6020 - Total ☐ Ba (Barium) - 6020 - Total ☐ Cd (Cadmium) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ Pb (Lead) - 6020 - Total ☐ Se (Selenium) - 6020 - Total							
A0E0669-01	06/05/20	06/03/20 10:37	45	50	Anchor QEA, LLC	PDI-026SW-A-200521-01	Total As,Cr,Cu,Zn
☐ As (Arsenic) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Zn (Zinc) - 6020 - Total							
A0E0707-02	06/05/20	06/03/20 10:37	45	50	Maul Foster & Alongi, INC.	MW-02-W-052020	
☐ As (Arsenic) - 6020 - Total							
A0E0707-03	06/05/20	06/03/20 10:37	45	50	Maul Foster & Alongi, INC.	MW-03-W-052020	Added for BatchQC in 0060121
☐ As (Arsenic) - 6020 - Total Batch QC: ☐ Ag (Silver) - 6020 - Total ☐ Ba (Barium) - 6020 - Total ☐ Cd (Cadmium) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Fe (Iron) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ Mo (Molybdenum) - 6020 - Tot ☐ Ni (Nickel) - 6020 - Total ☐ Pb (Lead) - 6020 - Total ☐ Se (Selenium) - 6020 - Total ☐ Zn (Zinc) - 6020 - Total							
0060121-DUP1		06/03/20 10:37	45	50	QC Sample		
	Source: A0E0707-03						
0060121-MS1		06/03/20 10:37	45	50	QC Sample		
	Source: A0E0707-03	Spike 1: 500 uL of A20E254	Spike 2: 50 uL of A20D274				
A0E0707-04	06/05/20	06/03/20 10:37	45	50	Maul Foster & Alongi, INC.	MW-DUP-W-052020	
☐ As (Arsenic) - 6020 - Total							
A0E0765-01	06/10/20	06/03/20 10:37	45	50	GeoDesign, Inc.	B-1	
☐ Ag (Silver) - 6020 - Total ☐ As (Arsenic) - 6020 - Total ☐ Cd (Cadmium) - 6020 - Total ☐ Cr (Chromium) - 6020 - Total ☐ Cu (Copper) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ Mo (Molybdenum) - 6020 - Tot ☐ Ni (Nickel) - 6020 - Total ☐ Pb (Lead) - 6020 - Total ☐ Se (Selenium) - 6020 - Total ☐ Zn (Zinc) - 6020 - Total							
A0E0794-01	06/10/20	06/03/20 10:37	45	50	Bridgewater Group	BK-GW-1	
☐ Pb (Lead) - 6020 - Total							
A0E0794-02	06/10/20	06/03/20 10:37	45	50	Bridgewater Group	BK-GW2	
☐ Pb (Lead) - 6020 - Total							
A0E0794-03	06/10/20	06/03/20 10:37	45	50	Bridgewater Group	BK-GW3	
☐ Pb (Lead) - 6020 - Total							
A0E0794-04	06/10/20	06/03/20 10:37	45	50	Bridgewater Group	BK-GW4	
☐ Pb (Lead) - 6020 - Total							

CRL
~~MSG~~ 6/3/20 ~~6/3/20~~

Prepared By: MSG 6/3/20 Date

MSG 6/3/20

Reviewed By: Date

APEX LABORATORIES

Apex Laboratories
BATCH #: 0060121 (Water)
Prep Method: EPA 3015A

Lab Number	Due	Prepared	Initial (mL)	Final (mL)	Client	ClientID / Sample	Extraction Comments
A0F0006-01	06/05/20	06/03/20 10:37	45	50	Sevenson Environmental Services	SRD-060120-336	MDL; 6020 Total Cu, Fe, Hg, Pb ug/L

☐ Cu (Copper) - 6020 - Total ☐ Fe (Iron) - 6020 - Total ☐ Hg (Mercury) - 6020 - Total ☐ Pb (Lead) - 6020 - Total

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L213	11/30/23	Metals Prep Balance 2
A17F264	06/23/23	Mars-6 Microwave
A20B344	02/25/22	Conc. HCl - Omnitrace
A20E160	11/10/22	Conc. HNO3 - Omnitrace

Analyte Spike(s) CRL 6/3/20

Std ID	Exp. Date	Description
A20D274	10/14/20	Hg Spiking Standard
A20E254	11/16/20	**Combo Spike** A+B+C

A) A20E234 - 250µL CRL
B) A20E235 - 125µL 6/3/20
C) A20E236 - 125µL ↓

Digestion time and temperature achieved? yes
Initials: CRL

CRL 6/3/20
MSG 6/3/20
Prepared By: Date

MSG 6/3/20
Reviewed By: Date

MSG 6/3/20

Batch #: 60121

If observed weight loss < 0.2g Digestion is within control limits

If observed weight loss > 0.2g Enter data in to electronic VWW. Acceptance limit 1.0% sample loss.

Date: 6/3/2020 Prepared by: CRL

#	Mars Tube ID	Sample ID	Pre-digestion Vessel + Sample Wt. (g)	Post-digestion Vessel + Sample Wt. (g)	Sample Wt. Loss (%)* *Formula only used if sample loss >0.2g*
1	W33	0060121-BLK1	209.81	209.81	-0.01%
2	W35	0060121-BS1	207.13	207.13	-0.01%
3	W20	A0E0653-01	208.56	208.57	0.00%
4	W72	A0E0669-01	210.25	210.25	0.00%
5	W2	A0E0707-02	206.23	206.22	0.01%
6	W82	A0E0707-03	210.16	210.16	0.01%
7	W86	0060121-DUP1	210.65	210.64	0.01%
8	W91	0060121-MS1	210.50	210.48	0.03%
9	W99A	A0E0707-04	209.40	209.39	0.00%
10	W92	A0E0765-01	209.76	209.76	0.00%
11	W99	A0E0794-01	206.73	206.73	0.00%
12	W66	A0E0794-02	208.25	208.25	0.02%
13	W37	A0E0794-03	209.10	209.09	0.02%
14	W64	A0E0794-04	209.43	209.42	0.02%
15	W44	A0F0006-01	212.16	212.15	0.01%
16					n/a
17					n/a
18					n/a
19					n/a
20					n/a
21					n/a
22					n/a
23					n/a
24					n/a
25					n/a

*Example Calculation: (Pre(g) – Post(g))/(Post(g) – 159.32g) This represents the mean weight of the empty digestion vessels. By factoring in the mean digestion vessel weight, we observe weight loss from only the sample, rather than as a percentage of the sample+vessel weight.

Run Data

Method: US EPA 3015a
Date/Time: 06/03/2020 11:32

Time	Temperature (°C)
00:00	30
00:30	34
01:00	43
01:30	54
02:00	67
02:30	87
03:00	103
03:30	117
04:00	128
04:30	136
05:00	139
05:30	141
06:00	144
06:30	146
07:00	147
07:30	150
08:00	152
08:30	153
09:00	155
09:30	160
10:00	164
10:30	165
11:00	167
11:30	169
12:00	170
12:30	168
13:00	168
13:30	168
14:00	168
14:30	169
15:00	168
15:30	168
16:00	168
16:30	167
17:00	167
17:30	168
18:00	168

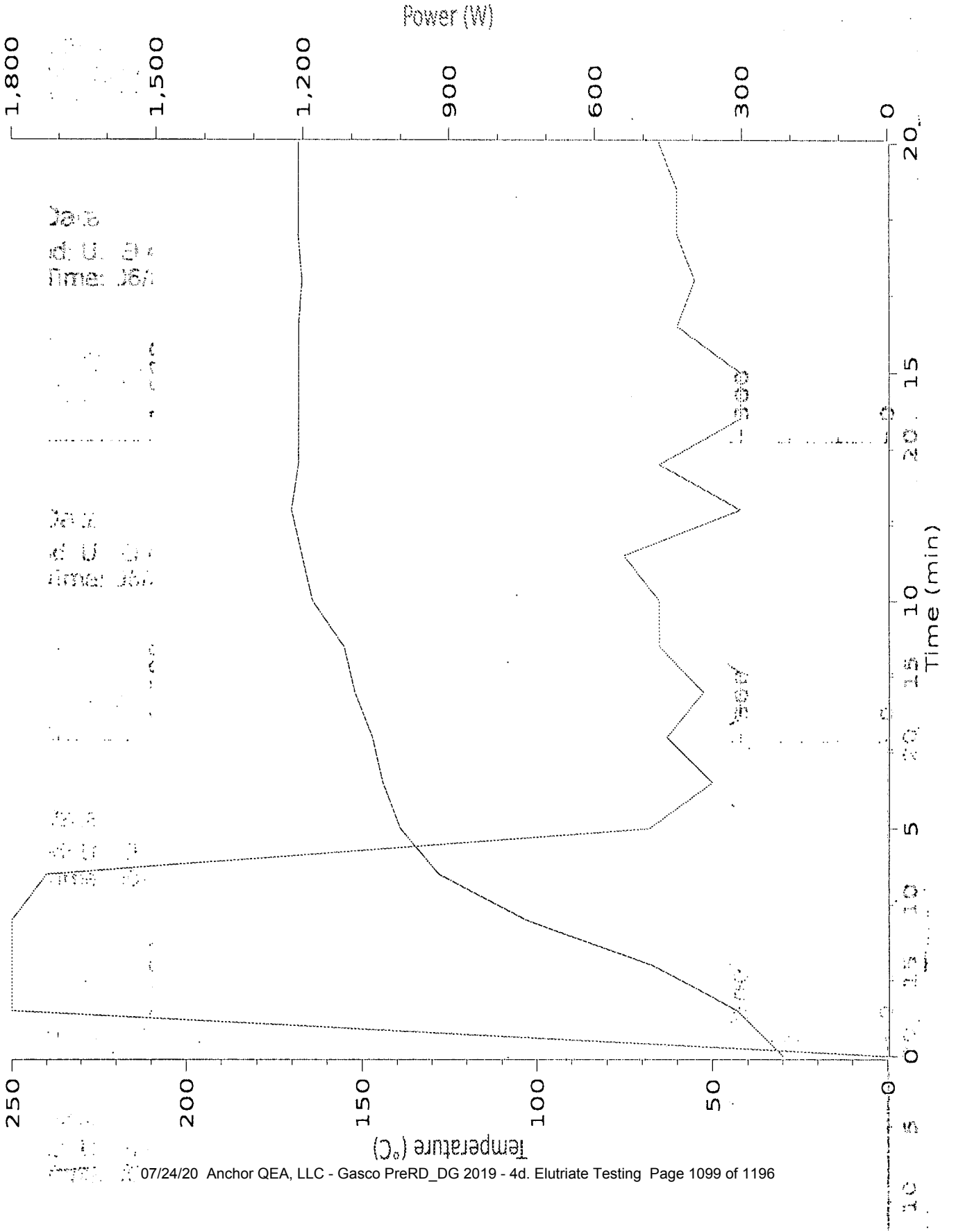
* I witnessed temp get met at correct time.
CRY
6/3/20

Time	Temperature (°C)
18:30	168
19:00	168
19:30	168
20:00	168

----- End Stage 1 -----

Run Data

Method: US EPA 3015a
Date/Time: 06/03/2020 11:32



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0F03039** Instrument: **ICPMS5**

Date: **06/03/20 09:01** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0F03039-CAL1	Water	QC	QC			A20A391	A20E188
2	0F03039-CAL2	Water	QC	QC			A20A391	A20E189
3	0F03039-CAL3	Water	QC	QC			A20A391	A20E190
4	0F03039-CAL4	Water	QC	QC			A20A391	A20E191
5	0F03039-CAL5	Water	QC	QC			A20A391	A20E192
6	0F03039-CAL6	Water	QC	QC			A20A391	A20E185
7	0F03039-CAL7	Water	QC	QC			A20A391	A20E187
8	0F03039-CAL8	Water	QC	QC			A20A391	A20D402
9	0F03039-CAL9	Water	QC	QC			A20A391	A20E080
10	0F03039-ICV1	Water	QC	QC			A20A391	A20E094
11	0F03039-ICB1	Water	QC	QC			A20A391	
12	0F03039-CRL1	Water	QC	QC			A20A391	A20E188
13	0F03039-CRL2	Water	QC	QC			A20A391	A20E189
14	0F03039-CRL3	Water	QC	QC			A20A391	A20E190
15	0F03039-CRL4	Water	QC	QC			A20A391	A20E191
16	0F03039-IFA1	Water	QC	QC			A20A391	A20E270
17	0F03039-IFB1	Water	QC	QC			A20A391	A20E271
18	0060080-BLK1	Solid	QC	QC		0060080	A20A391	
19	0060080-BS1	Solid	QC	QC		0060080	A20A391	
20	A0E0800-01	Solid	Ag (Silver) - 6020 - TCLP		06/11/20	0060080	A20A391	
21	"	Solid	As (Arsenic) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
22	"	Solid	Ba (Barium) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
23	"	Solid	Cd (Cadmium) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
24	"	Solid	Cr (Chromium) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
25	"	Solid	Hg (Mercury) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
26	"	Solid	Pb (Lead) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
27	"	Solid	Se (Selenium) - 6020 - TCLP	"	06/11/20	0060080	A20A391	
28	0060080-MS1	Solid	QC	QC		0060080	A20A391	
29	0060108-BLK1	Oil	QC	QC		0060108	A20A391	
30	0060108-BS1	Oil	QC	QC		0060108	A20A391	
31	A0E0653-02	Oil	Ag (Silver) - 6020 - Total		06/04/20	0060108	A20A391	
32	"	Oil	As (Arsenic) - 6020 - Total	"	06/04/20	0060108	A20A391	
33	"	Oil	Ba (Barium) - 6020 - Total	"	06/04/20	0060108	A20A391	
34	"	Oil	Cd (Cadmium) - 6020 - Total	"	06/04/20	0060108	A20A391	
35	"	Oil	Cr (Chromium) - 6020 - Total	"	06/04/20	0060108	A20A391	
36	"	Oil	Hg (Mercury) - 6020 - Total	"	06/04/20	0060108	A20A391	
37	"	Oil	Pb (Lead) - 6020 - Total	"	06/04/20	0060108	A20A391	
38	"	Oil	Se (Selenium) - 6020 - Total	"	06/04/20	0060108	A20A391	
39	0060108-DUP1	Oil	QC	QC		0060108	A20A391	
40	0060108-MS1	Oil	QC	QC		0060108	A20A391	
41	0060108-MSD1	Oil	QC	QC		0060108	A20A391	
42	0F03039-CCV1	Water	QC	QC			A20A391	A20E094
43	0F03039-CCB1	Water	QC	QC			A20A391	
44	0060114-BLK1	Soil	QC	QC		0060114	A20A391	
45	0060114-BS1	Soil	QC	QC		0060114	A20A391	
46	A0F0063-01	Soil	Pb (Lead) - 6020 - Total		06/04/20	0060114	A20A391	
47	A0F0063-02	Soil	Pb (Lead) - 6020 - Total		06/04/20	0060114	A20A391	
48	A0F0063-03	Soil	Pb (Lead) - 6020 - Total		06/04/20	0060114	A20A391	
49	0060114-DUP1	Soil	QC	QC		0060114	A20A391	
50	0060114-MS1	Soil	QC	QC		0060114	A20A391	
51	0060114-MSD1	Soil	QC	QC		0060114	A20A391	

Sequence: **0F03039** Instrument: **ICPMS5**

Date: **06/03/20 09:01** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	0F03039-CCV2	Water	QC	QC			A20A391	A20E094
53	0F03039-CCB2	Water	QC	QC			A20A391	
54	0F03039-CRL5	Water	QC	QC			A20A391	A20E188
55	0F03039-CRL6	Water	QC	QC			A20A391	A20E189
56	0F03039-CRL7	Water	QC	QC			A20A391	A20E190
57	0F03039-CRL8	Water	QC	QC			A20A391	A20E191
58	0060134-BLK1	Soil	QC	QC		0060134	A20A391	
59	0060134-BS1	Soil	QC	QC		0060134	A20A391	
60	A0E0631-02	Soil	Cd (Cadmium) - 6020 - TCLP		06/04/20	0060134	A20A391	
61	"	Soil	Pb (Lead) - 6020 - TCLP	"	06/04/20	0060134	A20A391	
62	0060134-MS1	Soil	QC	QC		0060134	A20A391	
63	0060121-BLK1	Water	QC	QC		0060121	A20A391	
64	0060121-BS1	Water	QC	QC		0060121	A20A391	
65	A0E0653-01	Water	Ag (Silver) - 6020 - Total		06/04/20	0060121	A20A391	
66	"	Water	As (Arsenic) - 6020 - Total	"	06/04/20	0060121	A20A391	
67	"	Water	Ba (Barium) - 6020 - Total	"	06/04/20	0060121	A20A391	
68	"	Water	Cd (Cadmium) - 6020 - Total	"	06/04/20	0060121	A20A391	
69	"	Water	Cr (Chromium) - 6020 - Total	"	06/04/20	0060121	A20A391	
70	"	Water	Hg (Mercury) - 6020 - Total	"	06/04/20	0060121	A20A391	
71	"	Water	Pb (Lead) - 6020 - Total	"	06/04/20	0060121	A20A391	
72	"	Water	Se (Selenium) - 6020 - Total	"	06/04/20	0060121	A20A391	
73	A0E0669-01	Water	As (Arsenic) - 6020 - Total	Anchor QEA, LLC	06/05/20	0060121	A20A391	
74	"	Water	Cr (Chromium) - 6020 - Total	"	06/05/20	0060121	A20A391	
75	"	Water	Cu (Copper) - 6020 - Total	"	06/05/20	0060121	A20A391	
76	"	Water	Zn (Zinc) - 6020 - Total	"	06/05/20	0060121	A20A391	
77	A0E0707-02	Water	As (Arsenic) - 6020 - Total		06/05/20	0060121	A20A391	
78	A0E0707-03	Water	Ag (Silver) - 6020 - Total	(QC Source)		0060121	A20A391	
79	"	Water	As (Arsenic) - 6020 - Total	"	06/05/20	0060121	A20A391	
80	"	Water	Ba (Barium) - 6020 - Total	(QC Source)		0060121	A20A391	
81	"	Water	Cd (Cadmium) - 6020 - Total	(QC Source)		0060121	A20A391	
82	"	Water	Cr (Chromium) - 6020 - Total	(QC Source)		0060121	A20A391	
83	"	Water	Cu (Copper) - 6020 - Total	(QC Source)		0060121	A20A391	
84	"	Water	Fe (Iron) - 6020 - Total	(QC Source)		0060121	A20A391	
85	"	Water	Hg (Mercury) - 6020 - Total	(QC Source)		0060121	A20A391	
86	"	Water	Mo (Molybdenum) - 6020 - Total	(QC Source)		0060121	A20A391	
87	"	Water	Ni (Nickel) - 6020 - Total	(QC Source)		0060121	A20A391	
88	"	Water	Pb (Lead) - 6020 - Total	(QC Source)		0060121	A20A391	
89	"	Water	Se (Selenium) - 6020 - Total	(QC Source)		0060121	A20A391	
90	"	Water	Zn (Zinc) - 6020 - Total	(QC Source)		0060121	A20A391	
91	0F03039-CCV3	Water	QC	QC			A20A391	A20E094
92	0F03039-CCB3	Water	QC	QC			A20A391	
93	0F03039-CRL9	Water	QC	QC			A20A391	A20E188
94	0F03039-CRLA	Water	QC	QC			A20A391	A20E189
95	0F03039-CRLB	Water	QC	QC			A20A391	A20E190
96	0F03039-CRLC	Water	QC	QC			A20A391	A20E191
97	0060121-DUP1	Water	QC	QC		0060121	A20A391	
98	0060121-MS1	Water	QC	QC		0060121	A20A391	
99	A0E0707-04	Water	As (Arsenic) - 6020 - Total		06/05/20	0060121	A20A391	
100	A0E0765-01	Water	Ag (Silver) - 6020 - Total		06/10/20	0060121	A20A391	
101	"	Water	As (Arsenic) - 6020 - Total	"	06/10/20	0060121	A20A391	
102	"	Water	Cd (Cadmium) - 6020 - Total	"	06/10/20	0060121	A20A391	
103	"	Water	Cr (Chromium) - 6020 - Total	"	06/10/20	0060121	A20A391	
104	"	Water	Cu (Copper) - 6020 - Total	"	06/10/20	0060121	A20A391	
105	"	Water	Hg (Mercury) - 6020 - Total	"	06/10/20	0060121	A20A391	
106	"	Water	Mo (Molybdenum) - 6020 - Total	"	06/10/20	0060121	A20A391	

Sequence: **0F03039** Instrument: **ICPMS5**

Date: **06/03/20 09:01** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
107	"	Water	Ni (Nickel) - 6020 - Total	"	06/10/20	0060121	A20A391	
108	"	Water	Pb (Lead) - 6020 - Total	"	06/10/20	0060121	A20A391	
109	"	Water	Se (Selenium) - 6020 - Total	"	06/10/20	0060121	A20A391	
110	"	Water	Zn (Zinc) - 6020 - Total	"	06/10/20	0060121	A20A391	
111	A0E0794-01	Water	Pb (Lead) - 6020 - Total		06/10/20	0060121	A20A391	
112	A0E0794-02	Water	Pb (Lead) - 6020 - Total		06/10/20	0060121	A20A391	
113	A0E0794-03	Water	Pb (Lead) - 6020 - Total		06/10/20	0060121	A20A391	
114	A0E0794-04	Water	Pb (Lead) - 6020 - Total		06/10/20	0060121	A20A391	
115	A0F0006-01	Water	Cu (Copper) - 6020 - Total		06/05/20	0060121	A20A391	
116	"	Water	Fe (Iron) - 6020 - Total		06/05/20	0060121	A20A391	
117	"	Water	Hg (Mercury) - 6020 - Total	"	06/05/20	0060121	A20A391	
118	"	Water	Pb (Lead) - 6020 - Total	"	06/05/20	0060121	A20A391	
119	0060106-BLK1	Water	QC	QC		0060106	A20A391	
120	0F03039-CCV4	Water	QC	QC			A20A391	A20E094
121	0F03039-CCB4	Water	QC	QC			A20A391	
122	0060106-BS1	Water	QC	QC		0060106	A20A391	
123	A0E0657-01	Water	Fe (Iron) - 200.8 - Total		06/05/20	0060106	A20A391	
124	"	Water	Zn (Zinc) - 200.8 - Total		06/05/20	0060106	A20A391	
125	A0E0802-01	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
126	A0E0802-02	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
127	A0E0802-03	Water	Al (Aluminum) - 200.8 - Total	(QC Source)		0060106	A20A391	
128	"	Water	As (Arsenic) - 200.8 - Total	(QC Source)		0060106	A20A391	
129	"	Water	Cu (Copper) - 200.8 - Total	(QC Source)		0060106	A20A391	
130	"	Water	Fe (Iron) - 200.8 - Total	(QC Source)		0060106	A20A391	
131	"	Water	Pb (Lead) - 200.8 - Total	"	06/04/20	0060106	A20A391	
132	"	Water	Zn (Zinc) - 200.8 - Total	(QC Source)		0060106	A20A391	
133	0060106-DUP1	Water	QC	QC		0060106	A20A391	
134	0060106-MS1	Water	QC	QC		0060106	A20A391	
135	A0E0802-04	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
136	A0E0802-05	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
137	A0E0802-06	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
138	0F03039-CCV5	Water	QC	QC			A20A391	A20E094
139	0F03039-CCB5	Water	QC	QC			A20A391	
140	A0E0807-01	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
141	A0E0807-02	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
142	A0E0807-03	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
143	A0E0807-04	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
144	A0E0807-05	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
145	A0E0807-06	Water	Pb (Lead) - 200.8 - Total		06/04/20	0060106	A20A391	
146	A0F0010-01	Water	As (Arsenic) - 200.8 - Total		06/04/20	0060106	A20A391	
147	A0F0010-02	Water	As (Arsenic) - 200.8 - Total		06/04/20	0060106	A20A391	
148	A0F0010-03	Water	As (Arsenic) - 200.8 - Total		06/04/20	0060106	A20A391	
149	A0F0010-04	Water	As (Arsenic) - 200.8 - Total		06/04/20	0060106	A20A391	
150	0F03039-CCV6	Water	QC	QC			A20A391	A20E094
151	0F03039-CCB6	Water	QC	QC			A20A391	
152	A0F0011-01	Water	Al (Aluminum) - 200.8 - Total		06/05/20	0060106	A20A391	
153	"	Water	Fe (Iron) - 200.8 - Total	"	06/05/20	0060106	A20A391	
154	A0F0012-01	Water	Al (Aluminum) - 200.8 - Total	(QC Source)		0060106	A20A391	
155	"	Water	As (Arsenic) - 200.8 - Total	(QC Source)		0060106	A20A391	
156	"	Water	Cu (Copper) - 200.8 - Total	"	06/05/20	0060106	A20A391	
157	"	Water	Fe (Iron) - 200.8 - Total	(QC Source)		0060106	A20A391	
158	"	Water	Pb (Lead) - 200.8 - Total	(QC Source)		0060106	A20A391	
159	"	Water	Zn (Zinc) - 200.8 - Total	"	06/05/20	0060106	A20A391	
160	0060106-MS2	Water	QC	QC		0060106	A20A391	
161	0F03039-CCV7	Water	QC	QC			A20A391	A20E094

Sequence: **0F03039** Instrument: **ICPMS5**

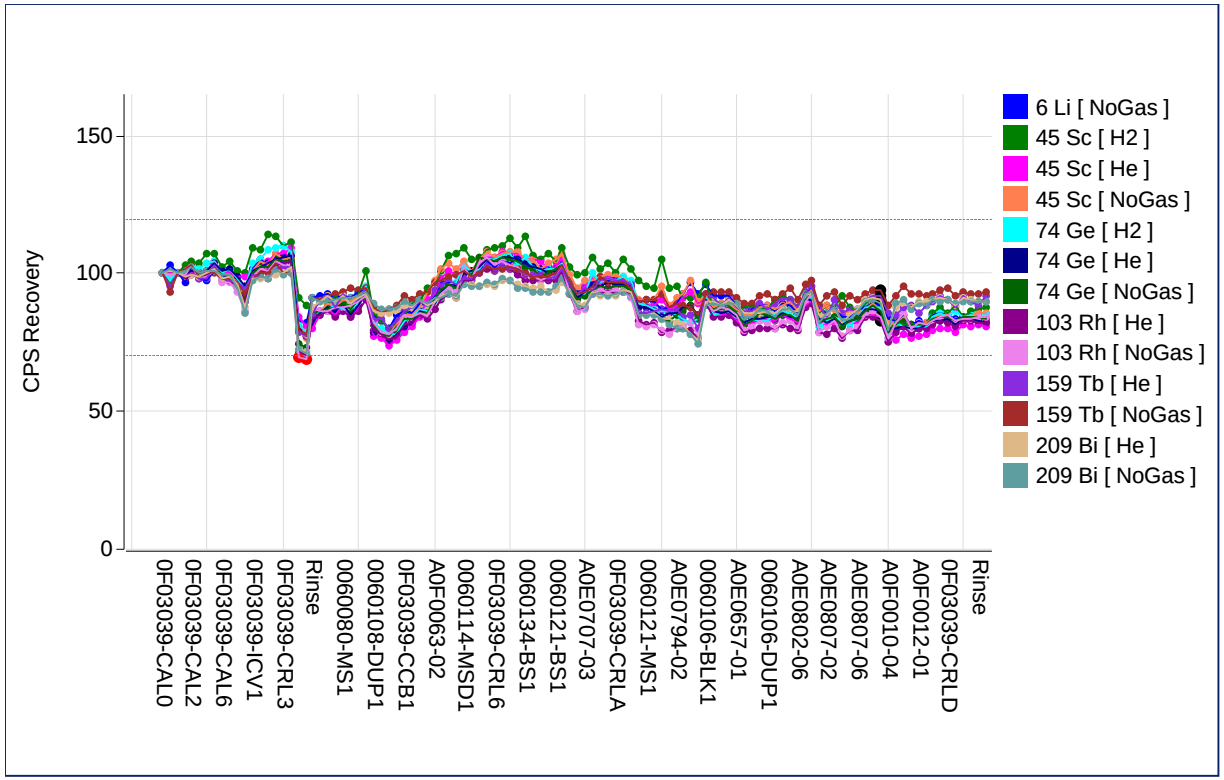
Date: **06/03/20 09:01** Calibration: **UNASSIGNED**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
162	0F03039-CCB7	Water	QC	QC			A20A391	
163	0F03039-CRLD	Water	QC	QC			A20A391	A20E188
164	0F03039-CRLE	Water	QC	QC			A20A391	A20E189
165	0F03039-CRLF	Water	QC	QC			A20A391	A20E190
166	0F03039-CRLG	Water	QC	QC			A20A391	A20E191

Comments:

Data Entered By/Date: KT 6-4-20

Data Reviewed By/Date: JSJ 06/04/20


CPS Recovery
150
100
50
0
0F03039-CAL0
0F03039-CAL2
0F03039-CAL6
0F03039-ICV1
0F03039-CRL3
Rinse
0060080-MS1
0060108-DUP1
0F03039-CCB1
A0F0063-02
0060114-MSD1
0F03039-CRL6
0060134-BS1
0060121-BS1
A0E0707-03
0F03039-CRLA
0060121-MS1
A0E0794-02
0060106-BLK1
A0E0657-01
0060106-DUP1
A0E0802-06
A0E0807-02
A0E0807-06
A0F0010-04
A0F0012-01
0F03039-CRLD
Rinse
6 Li [NoGas]
45 Sc [H2]
45 Sc [He]
45 Sc [NoGas]
74 Ge [H2]
74 Ge [He]
74 Ge [NoGas]
103 Rh [He]
103 Rh [NoGas]
159 Tb [He]
159 Tb [NoGas]
209 Bi [He]
209 Bi [NoGas]

Tune Report

Batch Folder	C:\Agilent\ICPMH\1\DATA\0F03039.b
Acq. Date-Time	6/3/2020 09:51
Report Comment	6-03-20 EPAMulti-mode Tune Report A20E026
Instrument Name	7700x JP09240003

[H2]

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
59		4454	44544.77	1000.00	
89		19989	199885.47	1000.00	
78		14			

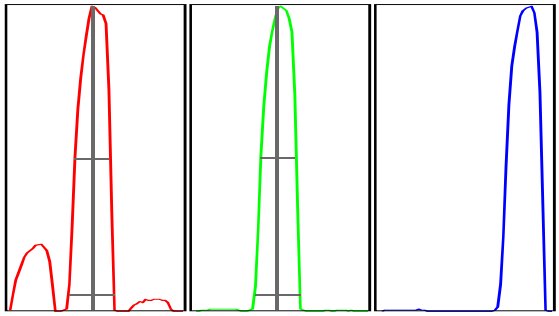
Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
59		-	
89		-	
78		-	

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
59	1.42	5.00	
89	1.17	5.00	
78	15.18		

Mass	Background (Actual)	Background (Required)	Background (Flag)
59			
89			
78			

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
59	4479	4378	4521	4397	4497
89	20360	19898	19725	19954	20004
78	13	14	12	14	17

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
59	806.85	59.00	58.9 - 59.1		0.58	0.764	0.900	

Tune Report

89	3626.21	89.00	88.9 - 89.1	0.58	0.761	0.900
78			-			

Integration Time [sec] 0.1 **Acquisition Time [sec]** 100.35 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.94 V	S/C Temp	2 ℃
Smpl Depth	9.0 mm	Gas Switch	Makeup Gas
Carrier Gas	1.07 L/min	Makeup/Dilution Gas	0.00 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-40 V
Extract 2	-170.0 V	Cell Exit	-70 V
Omega Bias	-115 V	Deflect	4.2 V
Omega Lens	12.0 V	Plate Bias	-62 V

Cell Parameters

Use Gas	true	OctP Bias	-18.0 V
He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	3.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

[He]

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
59		5053	50534.24	1000.00	
89		6157	61572.70	1000.00	
205		11460	114600.17	1000.00	
75		38			

Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
59		-	
89		-	
205		-	
75		-	

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
59	1.04	5.00	
89	0.47	5.00	
205	1.92	5.00	
75	12.00		

Mass	Background (Actual)	Background (Required)	Background (Flag)
59			
89			

Tune Report

205
75

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
59	5026	5012	5136	5075	5019
89	6123	6196	6157	6136	6174
205	11256	11193	11552	11634	11665
75	39	30	42	40	40

Integration Time [sec] 0.1

Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
59	897.60	59.05	58.9 - 59.1		0.59	0.769	0.900	
89	1134.95	89.05	88.9 - 89.1		0.57	0.738	0.900	
205	2155.66	205.00	204.9 - 205.1		0.54	0.769	0.900	
75	6.40	75.05	-		0.61	0.734		

Integration Time [sec] 0.1 **Acquisition Time [sec]** 134.8 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.94 V	S/C Temp	2 ℃
Smpl Depth	9.0 mm	Gas Switch	Makeup Gas
Carrier Gas	1.07 L/min	Makeup/Dilution Gas	0.00 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-40 V
Extract 2	-170.0 V	Cell Exit	-70 V
Omega Bias	-115 V	Deflect	5.8 V
Omega Lens	12.0 V	Plate Bias	-60 V

Cell Parameters

Use Gas	true	OctP Bias	-18.0 V
He Flow	3.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

[NoGas]

Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
7		9126	91262.12	1000.00	
89		19125	191248.64	1000.00	
205		12982	129824.22	1000.00	
102		3			

Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
7		-	

Tune Report

89		-
205		-
102		-

Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	3.49	5.00	
89	0.94	5.00	
205	2.78	5.00	
102	39.12		

Mass	Background (Actual)	Background (Required)	Background (Flag)
7			
89			
205			
102			

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
7	9514	9272	9195	8979	8671
89	18951	18946	19216	19367	19145
205	12573	12694	13088	13074	13483
102	3	3	2	5	3

Integration Time [sec] 0.1

Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
7	1521.41	7.00	6.9 - 7.1		0.62	0.783	0.900	
89	3392.74	89.05	88.9 - 89.1		0.59	0.771	0.900	
205	2421.70	205.00	204.9 - 205.1		0.55	0.773	0.900	
102			-					

Integration Time [sec] 0.1 **Acquisition Time [sec]** 135.3 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.94 V	S/C Temp	2 ℃
Smpl Depth	9.0 mm	Gas Switch	Makeup Gas
Carrier Gas	1.07 L/min	Makeup/Dilution Gas	0.00 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-40 V
Extract 2	-170.0 V	Cell Exit	-70 V
Omega Bias	-115 V	Deflect	15.0 V
Omega Lens	12.0 V	Plate Bias	-55 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V

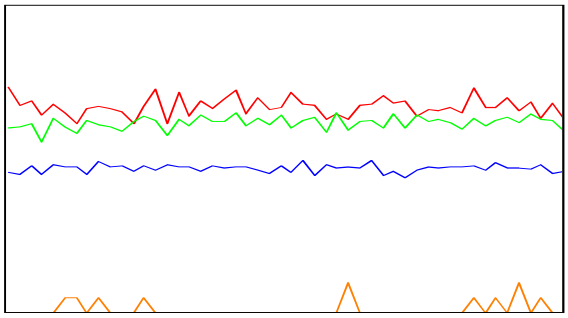
Tune Report

He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Tune Report

Batch Folder	C:\Agilent\ICPMH\1\DATA\0F03039.b
Acq. Date-Time	6/3/2020 09:55
Report Comment	6-03-20 General Multi-mode Tune Report A20E026
Instrument Name	7700x JP09240003

[NoGas]



Mass	Range	Count (Actual)	Response (Actual) [cps/ug/l]	Response (Required) [cps/ug/l]	Response (Flag)
7	2000	1348	13475.48	1000.00	
89	5000	3104	31037.08	1000.00	
205	5000	2360	23600.29	1000.00	
102	20	0			

Mass	Resp Ratio (Actual)	Resp Ratio (Required)	Resp Ratio (Flag)
7		-	
89		-	
205		-	
102		-	

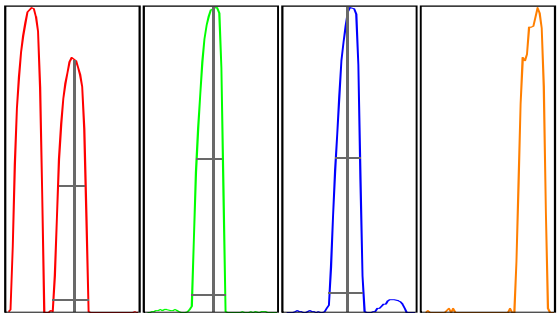
Mass	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	4.47	5.00	
89	3.29	5.00	
205	2.70	5.00	
102	230.31		

Mass	Background (Actual)	Background (Required)	Background (Flag)
7	1.20	10	
89	1.20	10	
205	3.70	30	
102	1.50		

Ratio (oxide)	156/140	1.302 %	
Ratio (2+)	69/138	1.062 %	

Integration Time [sec] 0.1 **Sampling Period [sec]** 0.413

Tune Report



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50%	W-5% (Actual)	W-5% (Required)	W-5% (Flag)
7	1358.05	7.05	6.9 - 7.1		0.60	0.776	0.900	
89	3107.17	89.05	88.9 - 89.1		0.57	0.736	0.900	
205	2459.52	205.00	204.9 - 205.1		0.53	0.760	0.900	
102			-					

Integration Time [sec] 0.1 **Acquisition Time [sec]** 30.12 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.94 V	S/C Temp	2 ℃
Smpl Depth	9.0 mm	Gas Switch	Makeup Gas
Carrier Gas	1.07 L/min	Makeup/Dilution Gas	0.00 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-40 V
Extract 2	-170.0 V	Cell Exit	-70 V
Omega Bias	-115 V	Deflect	15.0 V
Omega Lens	12.0 V	Plate Bias	-55 V

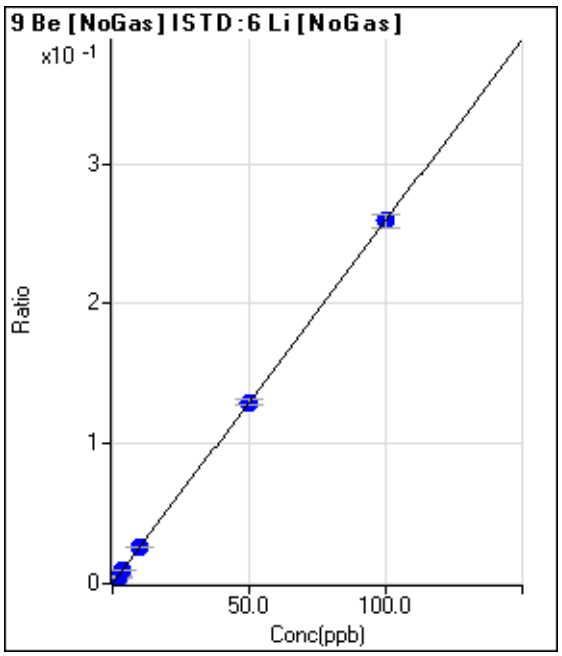
Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	200 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\0F03039.b\
Analysis File: 0F03039.batch.bin
DA Date-Time: 6/3/2020 11:26:35
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

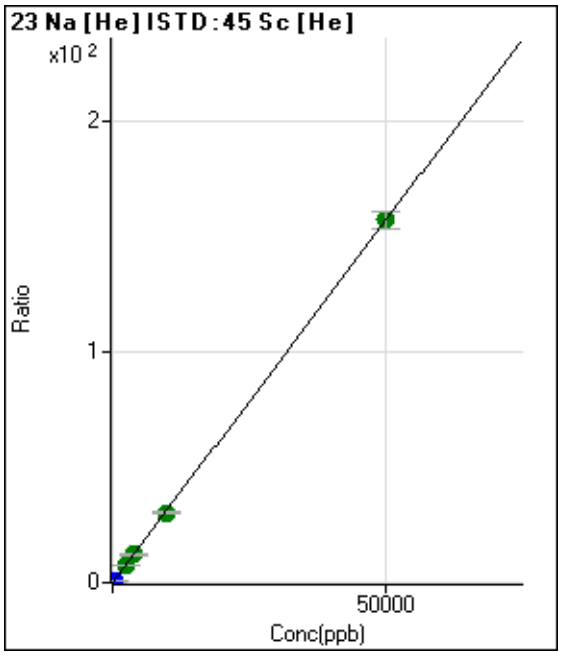
Level	Standard Data File	Sample Name	Acq. Date-Time
1	007CALB.d	0F03039-CAL0	6/3/2020 10:30:49
2	008CALS.d	0F03039-CAL1	6/3/2020 10:35:58
3	009CALS.d	0F03039-CAL2	6/3/2020 10:41:22
4	010CALS.d	0F03039-CAL3	6/3/2020 10:46:44
5	011CALS.d	0F03039-CAL4	6/3/2020 10:52:06
6	012CALS.d	0F03039-CAL5	6/3/2020 10:57:28
7	013CALS.d	0F03039-CAL6	6/3/2020 11:02:50
8	014CALS.d	0F03039-CAL7	6/3/2020 11:08:08
9	015CALS.d	0F03039-CAL8	6/3/2020 11:13:22
10	016CALS.d	0F03039-CAL9	6/3/2020 11:18:25



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64	0.000	P	19.2
2	☐	0.180	0.193	636	0.001	P	11.9
3	☐	0.900	0.881	2,835	0.002	P	6.5
4	☐	1.800	1.815	5,541	0.005	P	3.5
5	☐	3.600	3.625	10,890	0.009	P	3.4
6	☐	10.000	10.032	31,135	0.026	P	0.4
7	☐	50.000	50.013	152,781	0.130	P	2.6
8	☐	100.000	99.989	299,993	0.259	P	3.4
9	☐			190	0.000	P	4.3
10	☐			123	0.000	P	43.9

y = 0.0026 * x + 5.4120E-005
R = 1.0000
DL = 0.01205
BEC = 0.02089

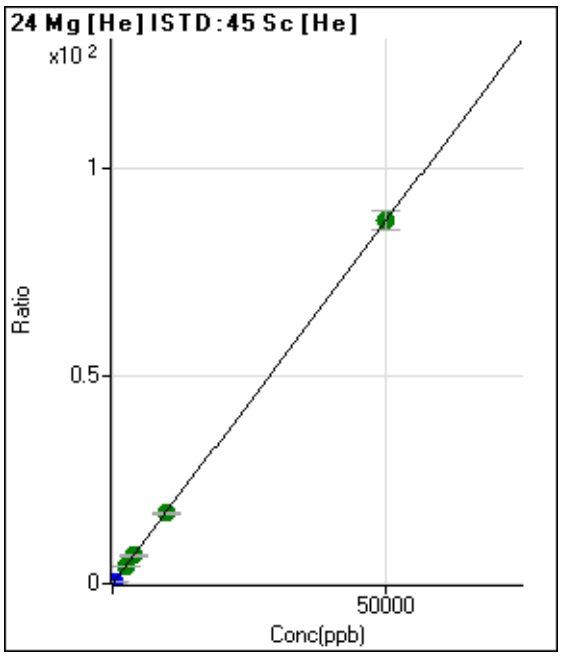
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18,634	0.035	P	2.3
2	☐			31,490	0.060	P	2.2
3	☐	45.000	41.135	86,883	0.164	P	2.0
4	☐	90.000	82.521	154,790	0.294	P	2.2
5	☐	180.000	168.493	299,399	0.564	P	4.6
6	☐	400.000	370.057	654,257	1.196	P	2.3
7	☐	2500.000	2386.256	3,986,271	7.517	A	0.5
8	☐	4000.000	3860.099	6,376,740	12.138	A	4.0
9	☐	10000.000	9614.917	15,680,954	30.180	A	3.2
10	☐	50000.000	50094.194	81,306,488	157.090	A	4.8

y = 0.0031 * x + 0.0355
R = 1.0000
DL = 0.7963
BEC = 11.32

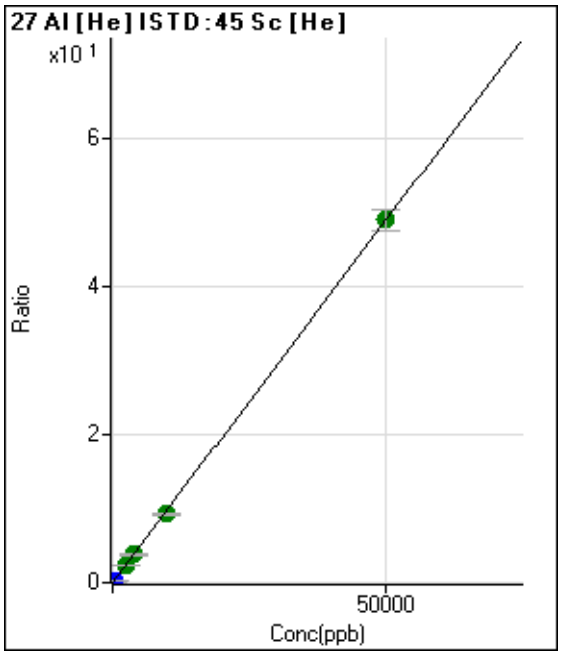
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4,622	0.009	P	5.4
2	☐			12,281	0.024	P	2.1
3	☐	45.000	43.081	44,414	0.084	P	1.2
4	☐	90.000	85.862	83,551	0.159	P	2.0
5	☐	180.000	173.579	165,744	0.312	P	3.8
6	☐	400.000	380.791	368,806	0.674	P	2.1
7	☐	2500.000	2425.576	2,251,506	4.246	A	1.7
8	☐	4000.000	3917.449	3,599,683	6.852	A	4.4
9	☐	10000.000	9687.141	8,797,225	16.931	A	3.0
10	☐	50000.000	50073.083	45,272,328	87.480	A	5.2

y = 0.0017 * x + 0.0088
R = 1.0000
DL = 0.8103
BEC = 5.04

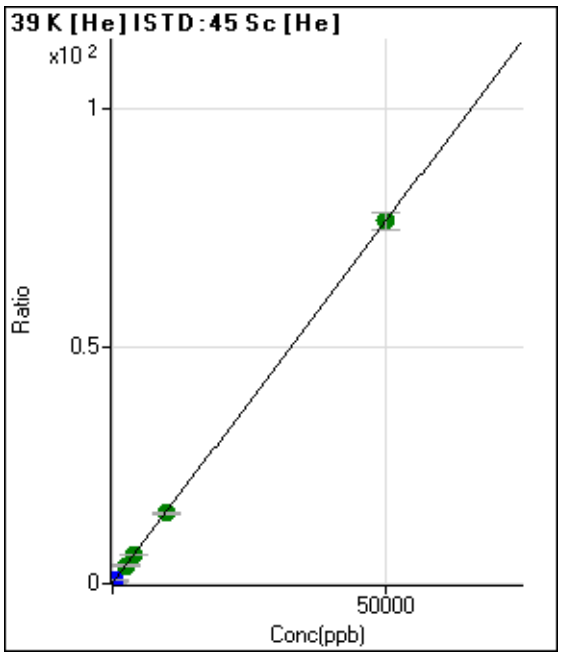
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	393	0.001	P	18.5
2	☐			4,587	0.009	P	6.0
3	☐	45.000	43.789	22,976	0.043	P	1.1
4	☐	90.000	85.482	44,279	0.084	P	3.2
5	☐	180.000	172.296	89,696	0.169	P	4.4
6	☐	400.000	376.717	201,548	0.368	P	2.8
7	☐	2500.000	2385.474	1,234,772	2.329	A	1.9
8	☐	4000.000	3851.834	1,975,059	3.759	A	4.2
9	☐	10000.000	9522.755	4,829,118	9.293	A	2.6
10	☐	50000.000	50113.252	25,306,002	48.903	A	5.5

y = 9.7583E-004 * x + 7.5147E-004
R = 0.9999
DL = 0.4285
BEC = 0.7701

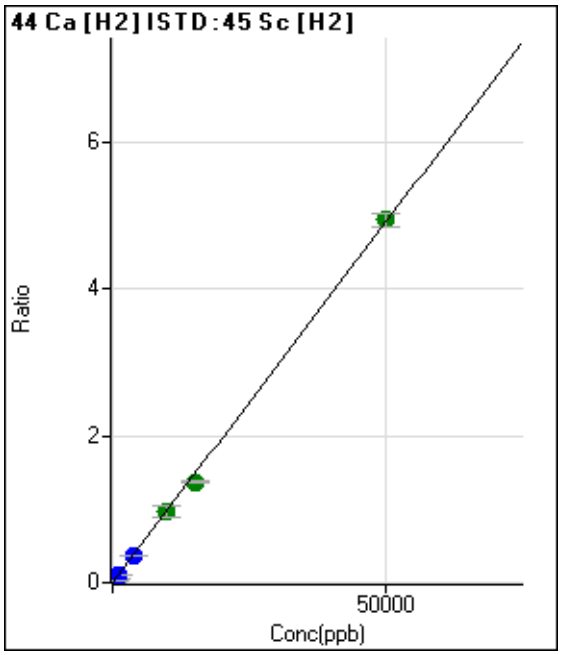
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64,317	0.122	P	1.7
2	☐			71,876	0.138	P	1.9
3	☐	45.000	44.673	100,663	0.191	P	1.3
4	☐	90.000	87.292	134,406	0.255	P	1.4
5	☐	180.000	176.493	207,818	0.391	P	4.8
6	☐	400.000	386.055	388,820	0.711	P	1.8
7	☐	2500.000	2442.860	2,038,206	3.844	A	1.3
8	☐	4000.000	3881.794	3,171,703	6.036	A	2.9
9	☐	10000.000	9659.594	7,708,562	14.837	A	3.6
10	☐	50000.000	50080.524	39,547,892	76.410	A	4.8

y = 0.0015 * x + 0.1225
R = 1.0000
DL = 4.064
BEC = 80.4

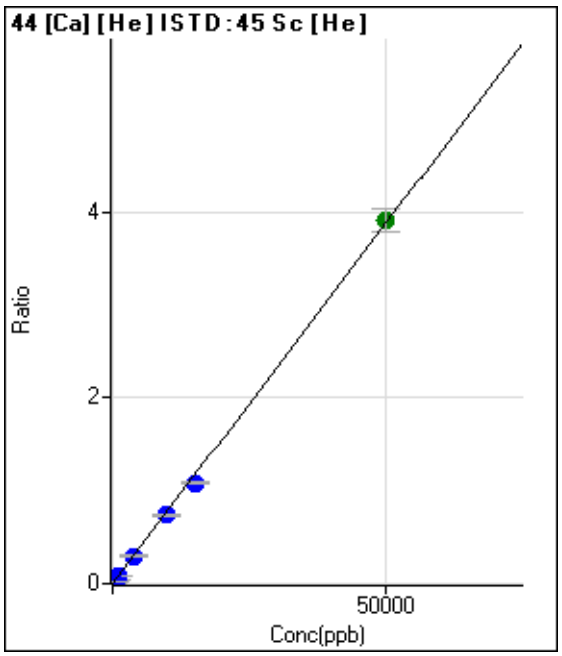
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2,027	0.001	P	4.5
2	☐			16,777	0.006	P	3.8
3	☐	270.000	249.113	76,253	0.025	P	3.2
4	☐	540.000	500.322	149,834	0.050	P	1.7
5	☐	1080.000	988.114	303,131	0.098	P	1.1
6	☐	400.000	369.578	114,900	0.037	P	1.7
7	☐	15000.000	13997.028	4,077,317	1.373	A	2.2
8	☐	4000.000	3795.561	1,126,750	0.373	P	2.8
9	☐	10000.000	9868.151	2,796,736	0.968	A	13.7
10	☐	50000.000	50346.386	14,318,990	4.936	A	3.6

y = 9.8036E-005 * x + 6.9866E-004
R = 0.9998
DL = 0.965
BEC = 7.127

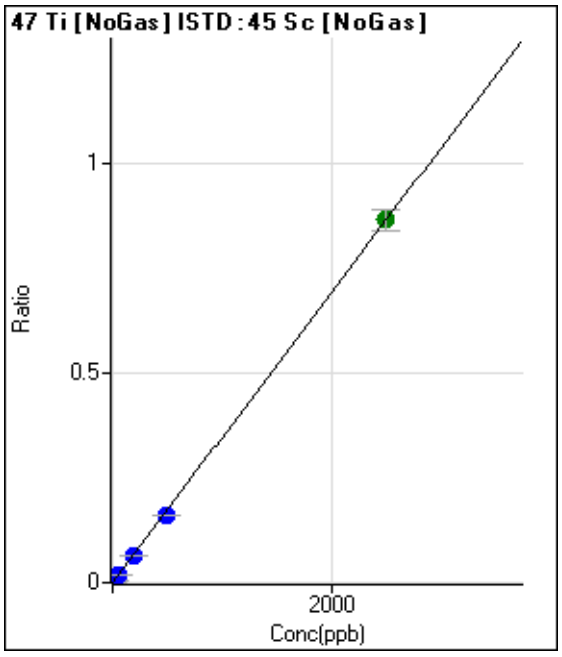
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	510	0.001	P	3.2
2	☐			2,557	0.005	P	9.8
3	☐	270.000	261.501	11,198	0.021	P	4.2
4	☐	540.000	511.543	21,334	0.041	P	0.6
5	☐	1080.000	1025.489	42,650	0.080	P	4.4
6	☐	400.000	371.641	16,265	0.030	P	1.8
7	☐	15000.000	13995.275	574,634	1.084	P	0.9
8	☐	4000.000	3808.273	155,287	0.296	P	3.9
9	☐	10000.000	9488.167	381,851	0.735	P	3.7
10	☐	50000.000	50420.880	2,018,417	3.901	A	6.3

y = 7.7358E-005 * x + 9.7141E-004
R = 0.9997
DL = 1.202
BEC = 12.56

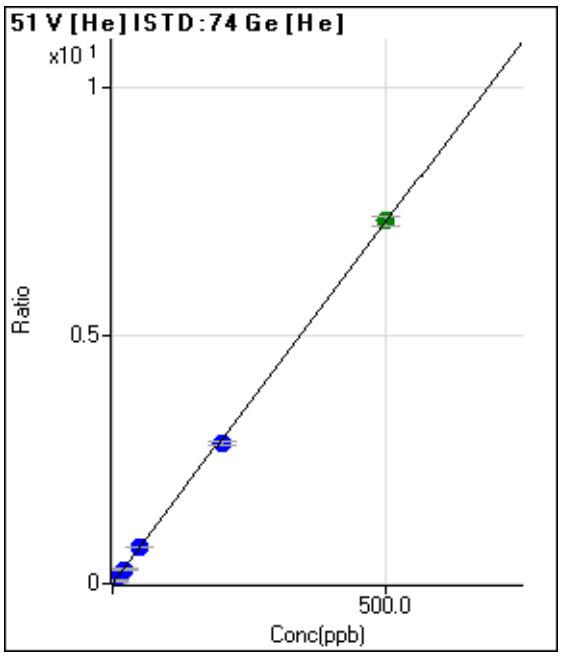
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137	0.000	P	32.1
2	☐			395	0.000	P	7.5
3	☐	0.900	0.867	1,334	0.000	P	13.0
4	☐	1.800	1.713	2,447	0.001	P	2.7
5	☐	3.600	3.424	4,767	0.001	P	4.4
6	☐	20.000	19.362	26,804	0.007	P	0.3
7	☐	50.000	47.698	64,009	0.016	P	3.0
8	☐	200.000	184.446	246,596	0.064	P	2.7
9	☐	500.000	468.761	607,150	0.161	P	1.1
10	☐	2500.000	2507.544	3,215,289	0.864	A	6.2

y = 3.4443E-004 * x + 3.5098E-005
R = 0.9999
DL = 0.09808
BEC = 0.1019

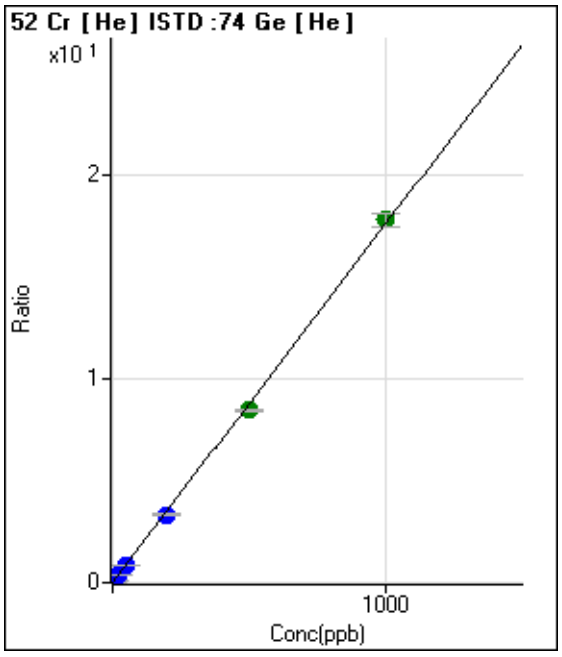
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2,087	0.006	P	2.9
2	☐			3,023	0.009	P	0.7
3	☐	0.900	0.908	6,610	0.019	P	2.5
4	☐	1.800	1.778	10,913	0.032	P	0.6
5	☐	3.600	3.586	19,970	0.058	P	3.0
6	☐	20.000	19.561	102,038	0.291	P	1.2
7	☐	50.000	49.393	248,265	0.725	P	0.6
8	☐	200.000	194.050	973,411	2.829	P	2.5
9	☐	500.000	502.458	2,453,043	7.314	A	2.9
10	☐			2,276	0.007	P	4.2

y = 0.0145 * x + 0.0062
R = 0.9999
DL = 0.03655
BEC = 0.4228

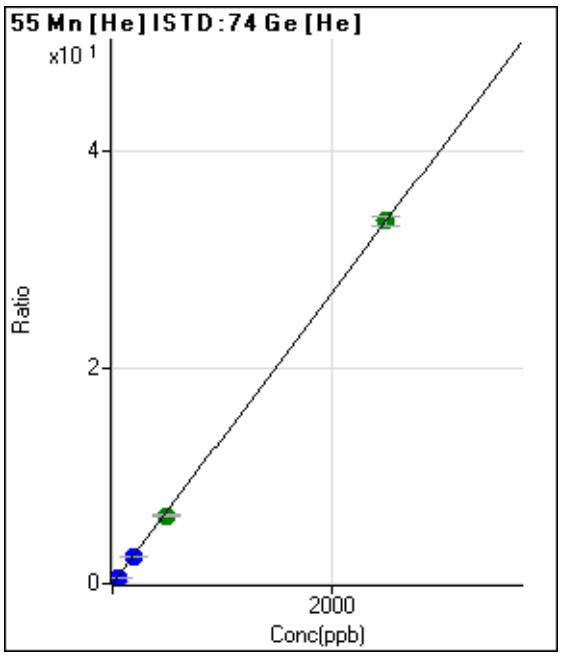
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	538	0.002	P	11.7
2	☐			1,642	0.005	P	4.3
3	☐	0.900	0.849	5,643	0.017	P	2.6
4	☐	1.800	1.725	10,880	0.032	P	1.1
5	☐	3.600	3.480	21,500	0.063	P	3.9
6	☐	20.000	18.997	117,810	0.336	P	1.7
7	☐	50.000	47.272	285,339	0.833	P	1.4
8	☐	200.000	188.099	1,138,706	3.309	P	2.7
9	☐	500.000	481.207	2,838,382	8.463	A	1.7
10	☐	1000.000	1011.934	5,739,539	17.795	A	3.6

y = 0.0176 * x + 0.0016
R = 0.9997
DL = 0.03152
BEC = 0.0901

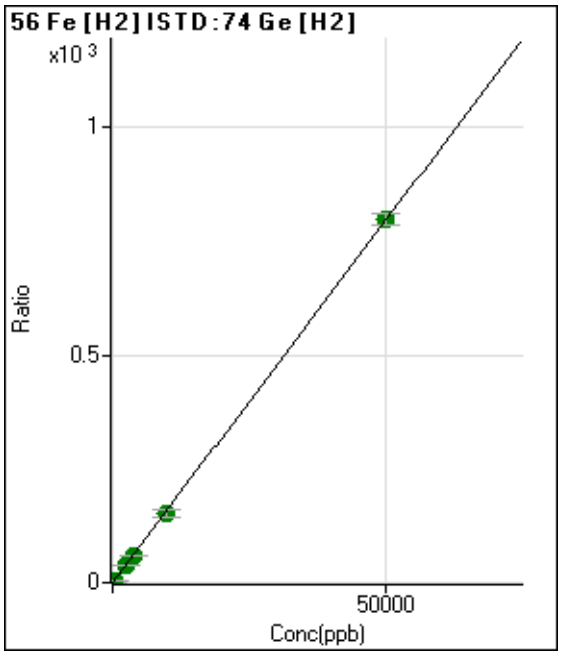
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	209	0.001	P	20.3
2	☐			911	0.003	P	9.8
3	☐	0.900	0.886	4,261	0.012	P	3.9
4	☐	1.800	1.642	7,703	0.023	P	3.3
5	☐	3.600	3.367	15,638	0.046	P	4.4
6	☐	20.000	18.407	86,667	0.247	P	2.0
7	☐	50.000	46.023	211,202	0.616	P	1.6
8	☐	200.000	183.336	844,395	2.454	P	2.7
9	☐	500.000	468.033	2,100,527	6.263	A	2.4
10	☐	2500.000	2507.819	10,824,447	33.557	A	2.8

y = 0.0134 * x + 6.1699E-004
R = 0.9999
DL = 0.02806
BEC = 0.04611

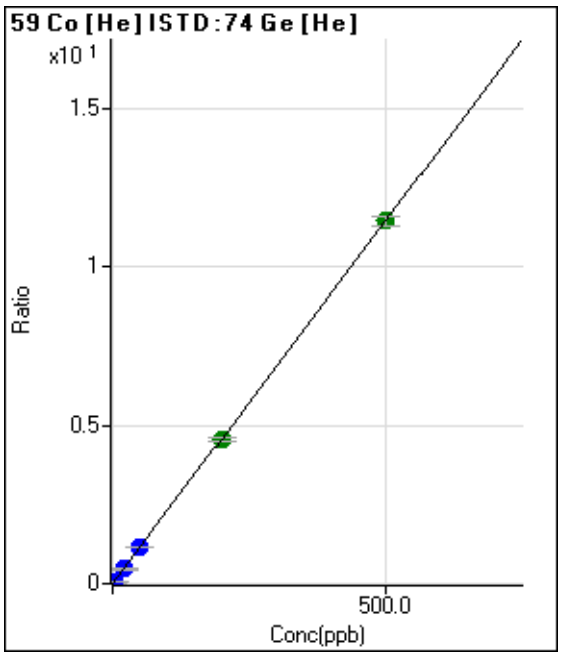
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54,333	0.055	P	3.0
2	☐			177,163	0.177	P	1.9
3	☐	45.000	39.817	698,993	0.689	P	2.5
4	☐	90.000	83.072	1,384,822	1.377	A	2.0
5	☐	180.000	164.577	2,747,401	2.674	A	0.9
6	☐	400.000	367.089	6,090,601	5.898	A	0.5
7	☐	2500.000	2335.506	36,884,040	37.227	A	0.7
8	☐	4000.000	3733.762	59,661,322	59.482	A	2.5
9	☐	10000.000	9596.014	147,033,017	152.786	A	9.5
10	☐	50000.000	50110.657	743,850,718	797.620	A	3.2

y = 0.0159 * x + 0.0550
R = 1.0000
DL = 0.3125
BEC = 3.459

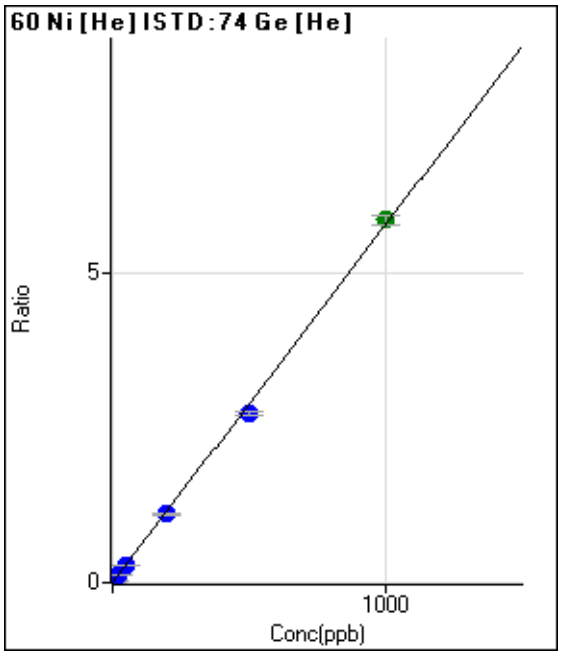
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	189	0.001	P	6.0
2	☐			1,607	0.005	P	4.0
3	☐	0.900	0.922	7,391	0.022	P	4.3
4	☐	1.800	1.841	14,537	0.043	P	3.4
5	☐	3.600	3.678	28,990	0.085	P	3.8
6	☐	20.000	19.991	160,628	0.458	P	1.9
7	☐	50.000	49.820	390,456	1.140	P	1.0
8	☐	200.000	199.600	1,570,724	4.564	A	2.1
9	☐	500.000	500.178	3,835,498	11.436	A	2.5
10	☐			2,086	0.006	P	8.1

y = 0.0229 * x + 5.5700E-004
R = 1.0000
DL = 0.004416
BEC = 0.02436

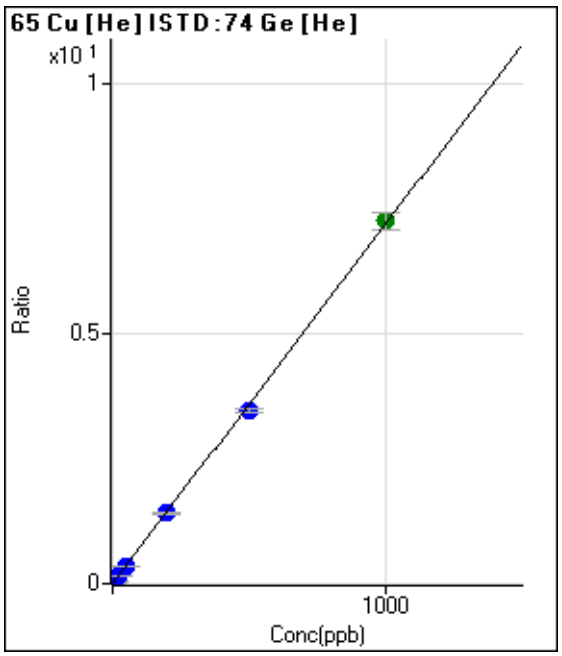
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	319	0.001	P	13.0
2	☐			661	0.002	P	1.4
3	☐	0.900	0.821	1,946	0.006	P	3.5
4	☐	1.800	1.715	3,705	0.011	P	5.3
5	☐	3.600	3.450	7,159	0.021	P	6.0
6	☐	20.000	19.692	40,353	0.115	P	1.0
7	☐	50.000	48.537	96,601	0.282	P	0.9
8	☐	200.000	192.805	384,437	1.117	P	2.8
9	☐	500.000	474.900	922,404	2.750	P	2.4
10	☐	1000.000	1014.069	1,894,194	5.872	A	2.5

y = 0.0058 * x + 9.3984E-004
R = 0.9996
DL = 0.06316
BEC = 0.1623

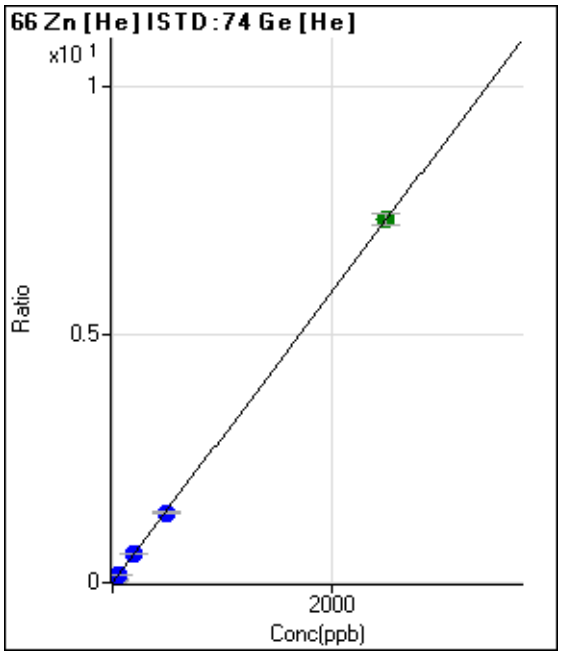
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	402	0.001	P	7.3
2	☐			611	0.002	P	4.9
3	☐	0.900	0.817	2,412	0.007	P	2.7
4	☐	1.800	1.718	4,617	0.014	P	3.7
5	☐	3.600	3.580	9,222	0.027	P	4.2
6	☐	20.000	20.429	51,981	0.148	P	1.7
7	☐	50.000	50.214	124,115	0.362	P	1.4
8	☐	200.000	197.543	489,210	1.422	P	2.8
9	☐	500.000	482.661	1,164,356	3.472	P	2.4
10	☐	1000.000	1009.142	2,340,420	7.258	A	4.7

y = 0.0072 * x + 0.0012
R = 0.9998
DL = 0.03591
BEC = 0.165

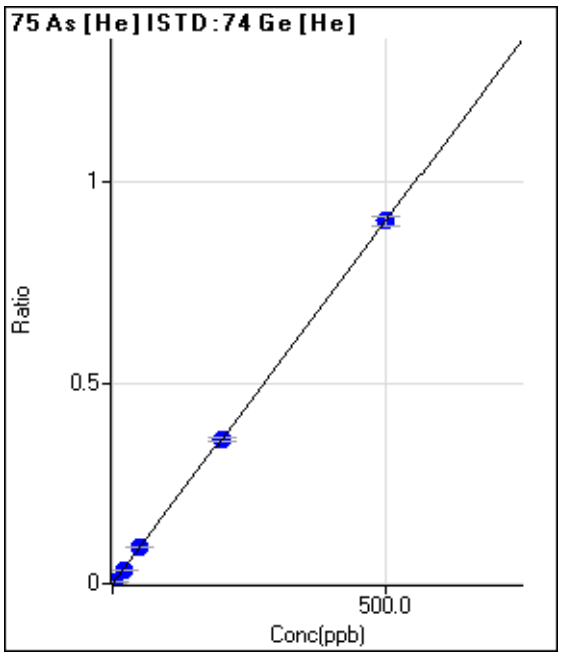
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128	0.000	P	15.1
2	☐			263	0.001	P	7.2
3	☐			942	0.003	P	8.6
4	☐	1.800	1.589	1,709	0.005	P	5.2
5	☐	3.600	3.536	3,664	0.011	P	5.2
6	☐	20.000	19.726	20,333	0.058	P	2.9
7	☐	50.000	48.654	48,766	0.142	P	0.5
8	☐	200.000	194.722	195,647	0.568	P	2.4
9	☐	500.000	478.957	468,767	1.398	P	2.7
10	☐	2500.000	2504.660	2,357,187	7.308	A	3.3

y = 0.0029 * x + 3.7675E-004
R = 1.0000
DL = 0.05863
BEC = 0.1291

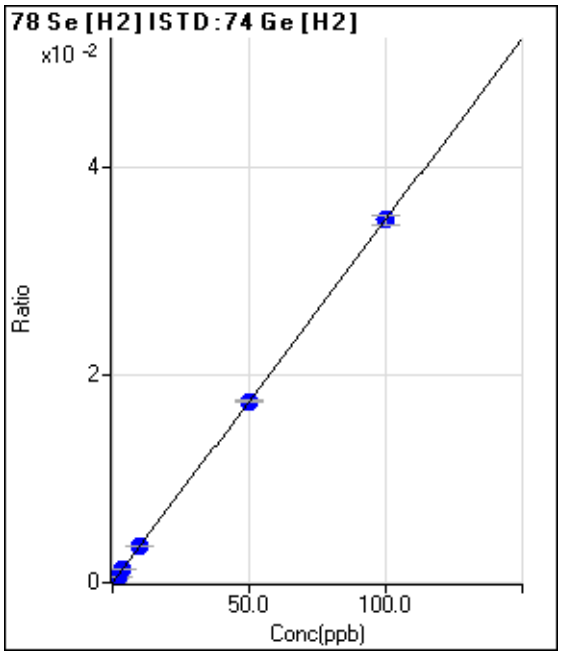
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51	0.000	P	13.4
2	☐			167	0.000	P	2.7
3	☐	0.900	0.970	649	0.002	P	1.7
4	☐	1.800	1.803	1,159	0.003	P	2.9
5	☐	3.600	3.735	2,359	0.007	P	2.8
6	☐	20.000	19.608	12,466	0.036	P	1.9
7	☐	50.000	49.771	30,808	0.090	P	0.6
8	☐	200.000	198.505	123,252	0.358	P	2.8
9	☐	500.000	500.636	302,868	0.903	P	2.6
10	☐			139	0.000	P	18.3

y = 0.0018 * x + 1.4951E-004
R = 1.0000
DL = 0.03336
BEC = 0.08289

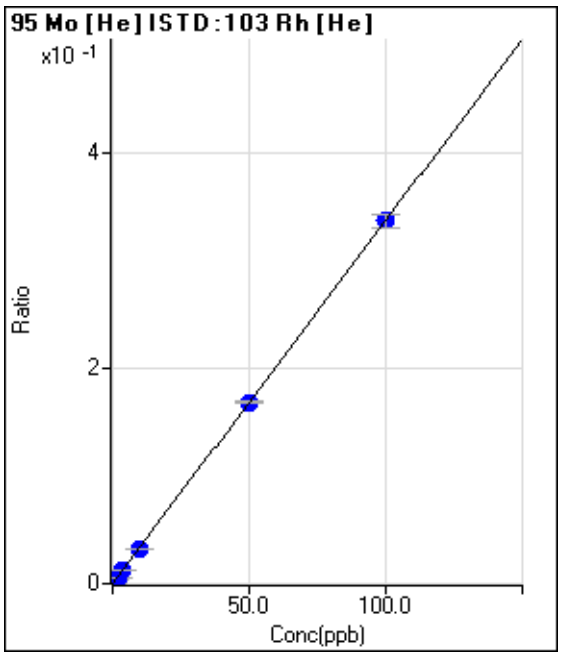
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3	0.000	P	58.1
2	☐			73	0.000	P	2.1
3	☐	0.900	0.891	319	0.000	P	6.9
4	☐	1.800	1.722	607	0.001	P	7.0
5	☐	3.600	3.554	1,277	0.001	P	1.7
6	☐	10.000	9.912	3,574	0.003	P	1.5
7	☐	50.000	50.046	17,298	0.017	P	1.5
8	☐	100.000	99.989	34,986	0.035	P	2.9
9	☐			49	0.000	P	16.2
10	☐			51	0.000	P	25.5

y = 3.4881E-004 * x + 3.0465E-006
R = 1.0000
DL = 0.01522
BEC = 0.008734

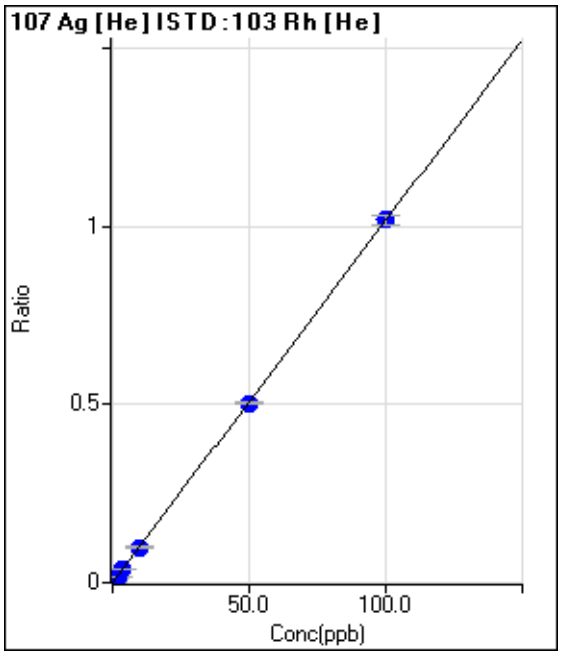
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23	0.000	P	36.1
2	☐			564	0.001	P	6.2
3	☐	0.900	0.934	2,606	0.003	P	3.7
4	☐	1.800	1.785	4,913	0.006	P	2.3
5	☐	3.600	3.559	9,862	0.012	P	4.0
6	☐	10.000	9.680	27,497	0.033	P	2.2
7	☐	50.000	50.069	136,221	0.169	P	1.8
8	☐	100.000	99.999	271,176	0.337	P	3.4
9	☐			216	0.000	P	5.1
10	☐			304	0.000	P	2.5

y = 0.0034 * x + 2.8200E-005
R = 1.0000
DL = 0.009055
BEC = 0.008372

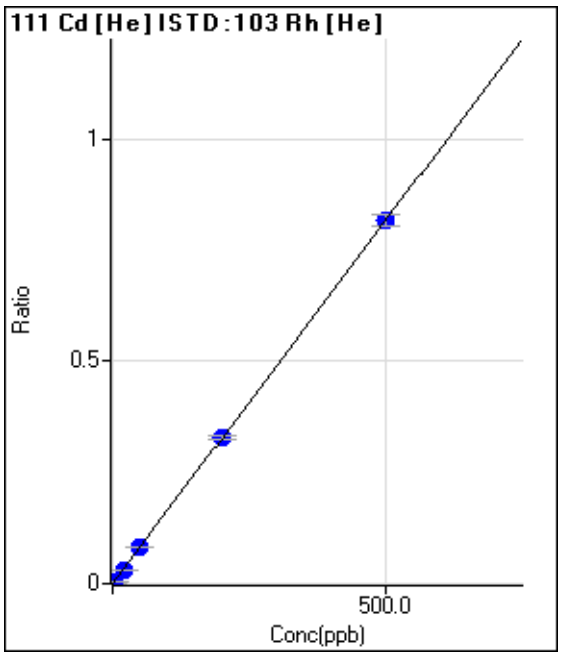
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34	0.000	P	29.5
2	☐	0.180	0.189	1,593	0.002	P	5.6
3	☐	0.900	0.920	7,690	0.009	P	4.0
4	☐	1.800	1.794	14,837	0.018	P	2.7
5	☐	3.600	3.612	30,085	0.037	P	5.0
6	☐	10.000	9.775	83,612	0.099	P	1.4
7	☐	50.000	49.520	405,799	0.502	P	1.2
8	☐	100.000	100.262	819,073	1.017	P	2.6
9	☐			289	0.000	P	14.3
10	☐			207	0.000	P	16.4

y = 0.0101 * x + 4.1625E-005
R = 1.0000
DL = 0.003632
BEC = 0.004102

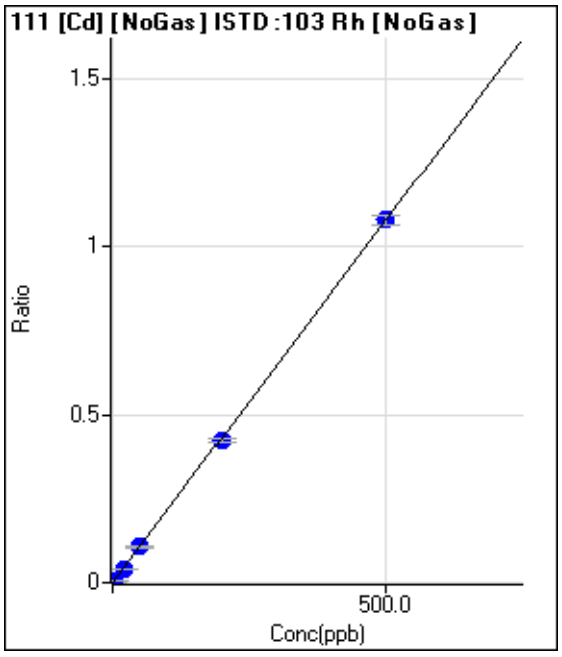
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2	0.000	P	48.4
2	☐	0.180	0.181	242	0.000	P	9.8
3	☐	0.900	0.929	1,247	0.002	P	2.9
4	☐	1.800	1.859	2,471	0.003	P	2.0
5	☐	3.600	3.605	4,828	0.006	P	5.6
6	☐	20.000	19.547	26,892	0.032	P	1.4
7	☐	50.000	50.244	66,240	0.082	P	1.4
8	☐	200.000	200.550	263,573	0.327	P	3.0
9	☐	500.000	499.774	641,012	0.816	P	3.3
10	☐			9,156	0.012	P	5.2

y = 0.0016 * x + 2.4047E-006
R = 1.0000
DL = 0.002139
BEC = 0.001473

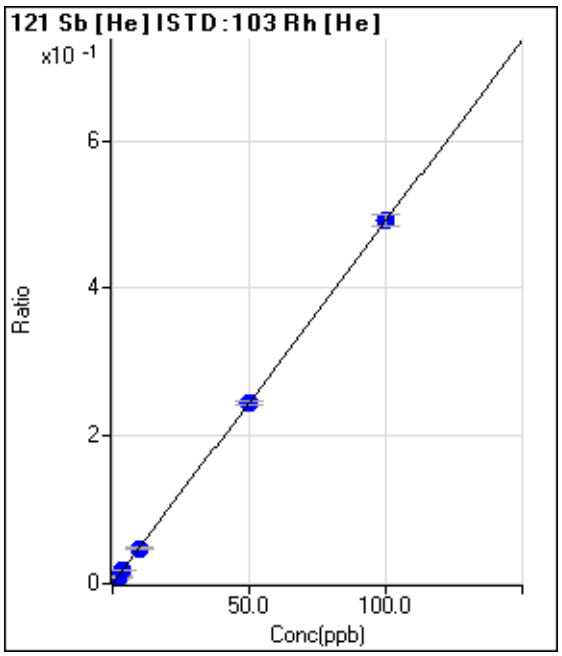
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-2	0.000	P	-113.4
2	☐	0.180	0.199	464	0.000	P	7.7
3	☐	0.900	0.835	2,000	0.002	P	10.2
4	☐	1.800	1.814	4,172	0.004	P	1.0
5	☐	3.600	3.723	8,590	0.008	P	6.9
6	☐	20.000	19.695	46,475	0.042	P	1.8
7	☐	50.000	49.975	112,741	0.108	P	3.6
8	☐	200.000	196.848	445,279	0.423	P	2.5
9	☐	500.000	501.275	1,094,246	1.078	P	2.3
10	☐			15,464	0.017	P	4.7

y = 0.0022 * x - 1.5301E-006
R = 1.0000
DL = 0.002419
BEC = -0.0007112

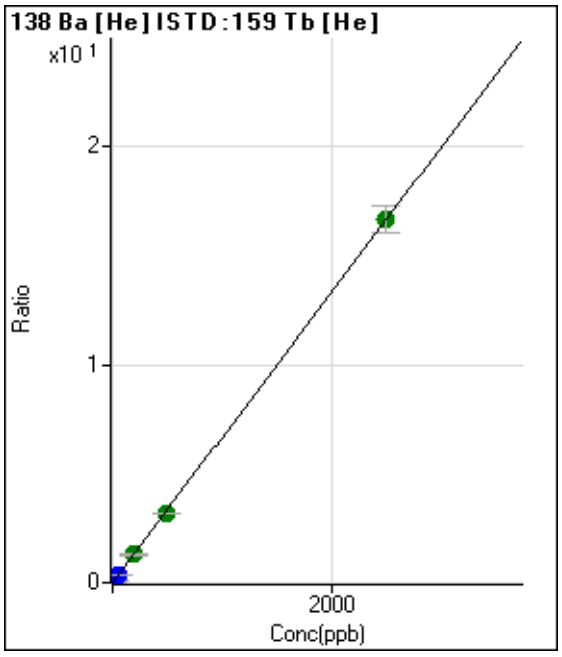
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33	0.000	P	24.0
2	☐			841	0.001	P	3.8
3	☐	0.900	0.887	3,604	0.004	P	3.2
4	☐	1.800	1.833	7,351	0.009	P	2.6
5	☐	3.600	3.591	14,489	0.018	P	3.0
6	☐	10.000	9.776	40,457	0.048	P	1.8
7	☐	50.000	49.770	197,248	0.244	P	1.6
8	☐	100.000	100.137	395,597	0.491	P	3.1
9	☐			390	0.000	P	14.8
10	☐			351	0.000	P	20.9

y = 0.0049 * x + 4.0207E-005
R = 1.0000
DL = 0.005908
BEC = 0.008194

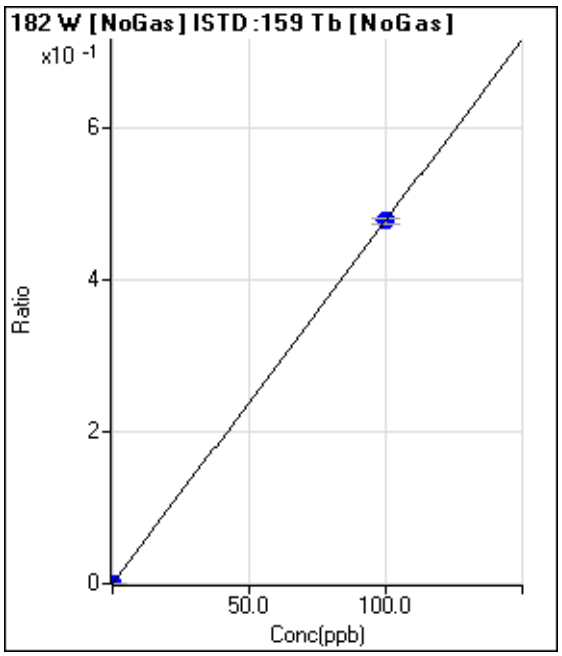
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	723	0.000	P	9.8
2	☐			2,061	0.001	P	5.5
3	☐	0.900	0.857	9,352	0.006	P	1.9
4	☐	1.800	1.730	17,858	0.012	P	3.2
5	☐	3.600	3.527	35,532	0.024	P	5.4
6	☐	20.000	18.816	195,835	0.126	P	5.1
7	☐	50.000	48.596	482,911	0.324	P	1.4
8	☐	200.000	194.623	1,916,004	1.295	A	2.7
9	☐	500.000	477.563	4,651,609	3.176	A	1.7
10	☐	2500.000	2504.955	23,769,377	16.658	A	7.4

y = 0.0066 * x + 4.7687E-004
R = 1.0000
DL = 0.02107
BEC = 0.07171

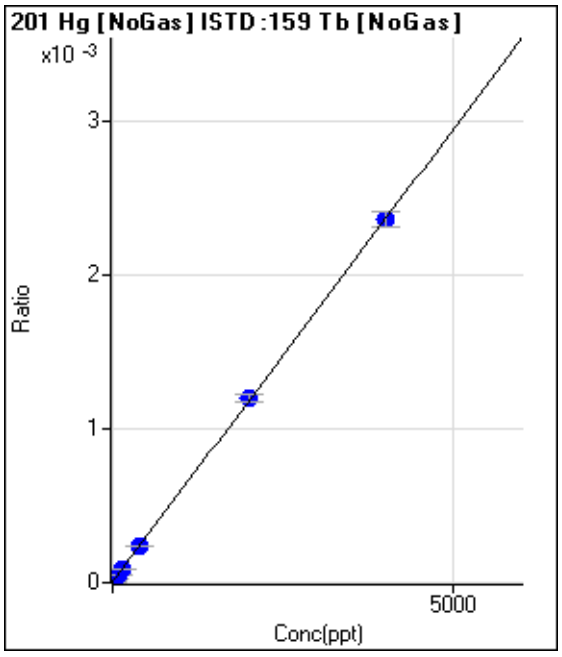
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71	0.000	P	36.2
2	☐			86	0.000	P	17.6
3	☐			102	0.000	P	7.3
4	☐			87	0.000	P	37.5
5	☐			87	0.000	P	9.2
6	☐			107	0.000	P	17.0
7	☐			202	0.000	P	25.8
8	☐			269	0.000	P	14.1
9	☐	100.000	100.000	910,966	0.478	P	1.8
10	☐			1,826	0.001	P	6.9

y = 0.0048 * x + 3.5747E-005
R = 1.0000
DL = 0.008136
BEC = 0.007485

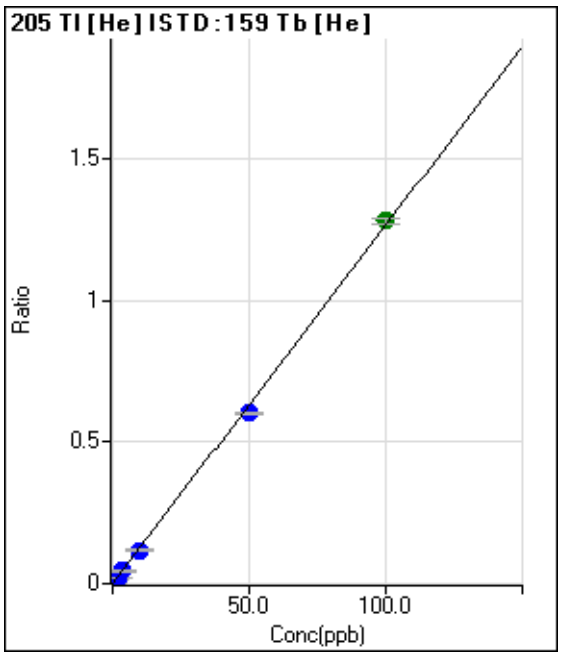
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.198	11	0.000	P	39.2
2	☐			18	0.000	P	23.2
3	☐	36.000	30.470	48	0.000	P	13.8
4	☐	72.000	74.790	97	0.000	P	2.1
5	☐	144.000	138.459	173	0.000	P	9.6
6	☐	400.000	396.347	476	0.000	P	3.6
7	☐	2000.000	2022.345	2,317	0.001	P	4.1
8	☐	4000.000	3989.392	4,580	0.002	P	4.4
9	☐			113	0.000	P	6.8
10	☐			30	0.000	P	33.5

y = 5.898404E-007 * x + 5.439947E-006
R = 1.0000
DL = 11.09
BEC = 9.223

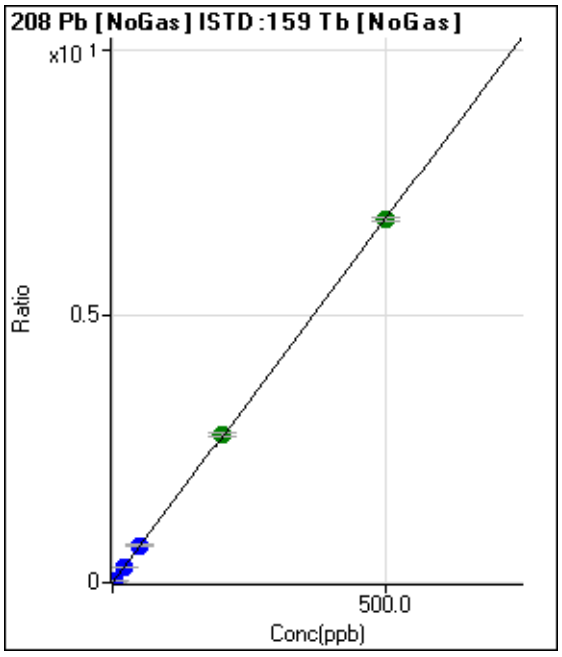
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34	0.000	P	5.4
2	☐	0.180	0.170	3,266	0.002	P	2.0
3	☐	0.900	0.862	16,553	0.011	P	1.9
4	☐	1.800	1.739	32,802	0.022	P	2.0
5	☐	3.600	3.535	66,374	0.045	P	5.3
6	☐	10.000	9.319	183,767	0.118	P	4.3
7	☐	50.000	47.532	896,700	0.601	P	1.1
8	☐	100.000	101.306	1,895,485	1.281	A	1.8
9	☐			919	0.001	P	15.2
10	☐			193	0.000	P	5.6

y = 0.0126 * x + 2.2739E-005
R = 0.9996
DL = 0.0002898
BEC = 0.001799

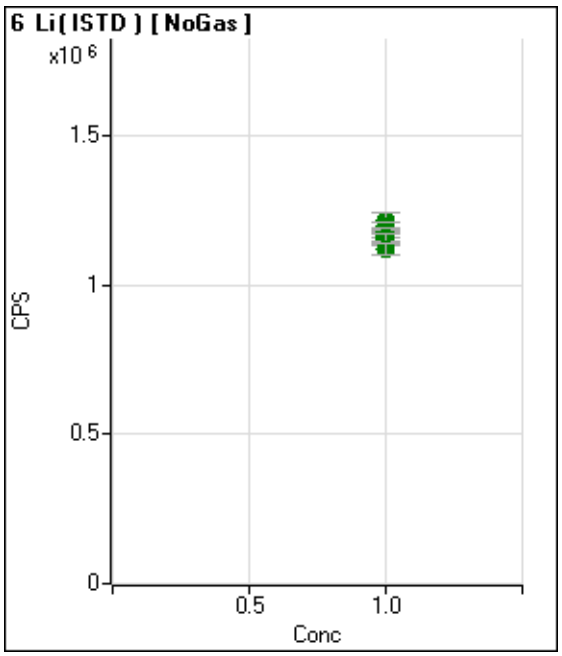
Weight: <None>
Min Conc: <None>



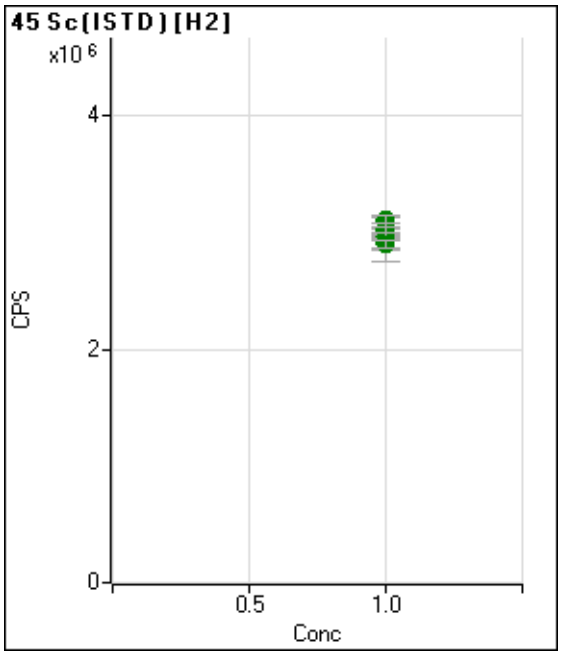
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	309	0.000	P	19.1
2	☐	0.180	0.182	5,305	0.003	P	2.8
3	☐	0.900	0.890	24,964	0.012	P	10.7
4	☐	1.800	1.847	49,714	0.025	P	1.4
5	☐	3.600	3.671	99,717	0.050	P	4.6
6	☐	20.000	20.417	554,272	0.279	P	1.6
7	☐	50.000	51.097	1,348,417	0.697	P	2.8
8	☐	200.000	203.068	5,379,572	2.770	A	2.5
9	☐	500.000	498.646	12,971,375	6.801	A	1.0
10	☐			4,844	0.003	P	6.6

y = 0.0136 * x + 1.5694E-004
R = 1.0000
DL = 0.006582
BEC = 0.01151

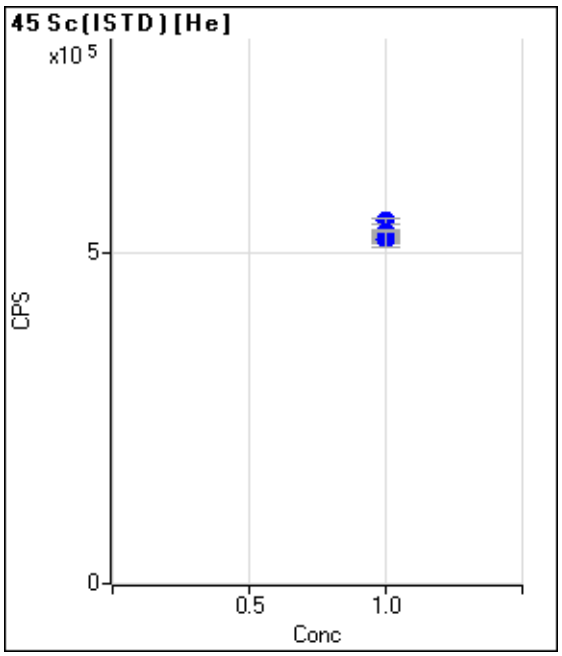
Weight: <None>
Min Conc: <None>



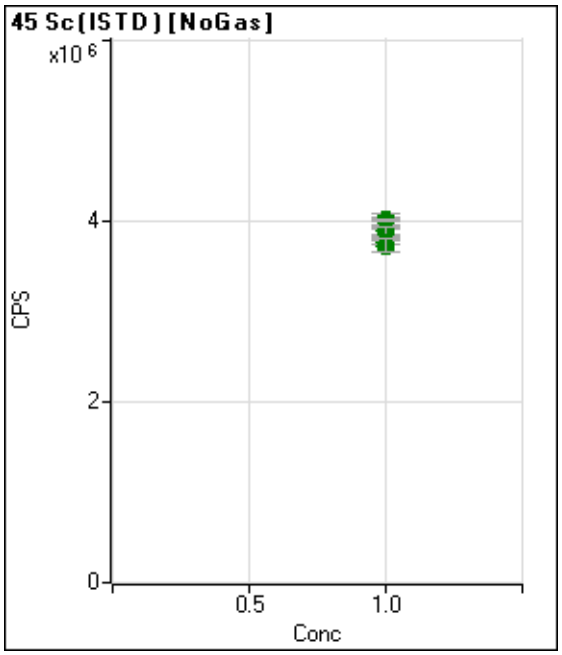
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1,184,451		A	4.2
2	☐	1.000		1,144,308		A	2.0
3	☐	1.000		1,213,493		A	4.1
4	☐	1.000		1,165,704		A	1.8
5	☐	1.000		1,154,073		A	3.9
6	☐	1.000		1,195,457		A	2.2
7	☐	1.000		1,179,010		A	1.7
8	☐	1.000		1,159,041		A	4.6
9	☐	1.000		1,156,350		A	2.1
10	☐	1.000		1,117,783		A	3.1



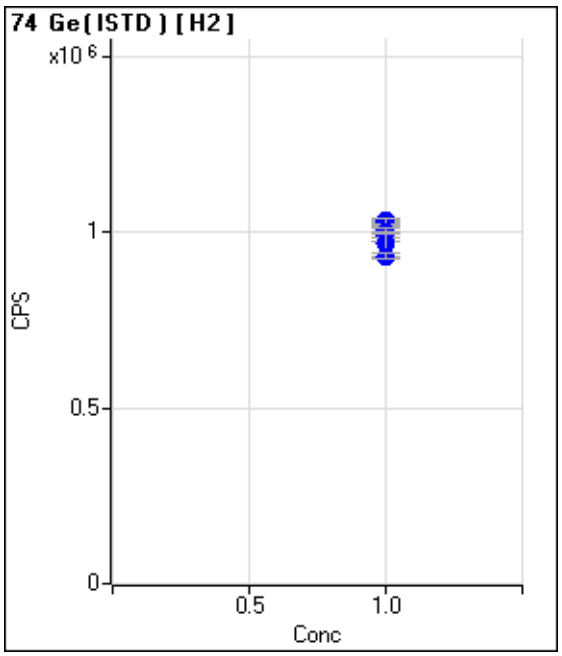
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2,901,324		A	3.8
2	☐	1.000		2,988,667		A	2.6
3	☐	1.000		3,037,695		A	3.5
4	☐	1.000		3,012,732		A	2.6
5	☐	1.000		3,107,099		A	1.6
6	☐	1.000		3,111,949		A	2.0
7	☐	1.000		2,970,779		A	2.2
8	☐	1.000		3,023,330		A	1.7
9	☐	1.000		2,919,044		A	11.4
10	☐	1.000		2,902,546		A	2.7



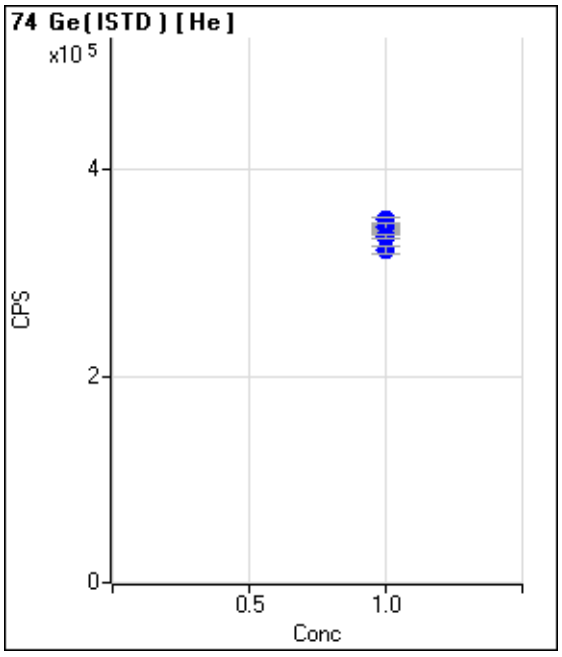
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		525,307		P	2.9
2	☐	1.000		521,516		P	1.1
3	☐	1.000		528,392		P	1.3
4	☐	1.000		526,233		P	1.5
5	☐	1.000		531,698		P	3.8
6	☐	1.000		547,334		P	1.9
7	☐	1.000		530,303		P	0.6
8	☐	1.000		525,821		P	3.2
9	☐	1.000		519,811		P	2.1
10	☐	1.000		518,307		P	4.4



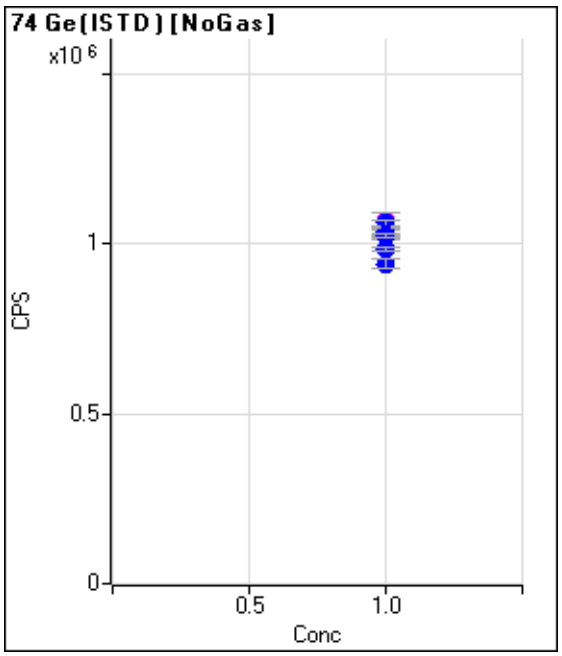
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3,897,407		A	2.5
2	☐	1.000		3,938,913		A	4.4
3	☐	1.000		4,010,432		A	3.9
4	☐	1.000		3,914,618		A	0.3
5	☐	1.000		3,927,185		A	5.8
6	☐	1.000		3,998,144		A	0.5
7	☐	1.000		3,890,761		A	3.7
8	☐	1.000		3,881,049		A	2.3
9	☐	1.000		3,759,986		A	1.5
10	☐	1.000		3,729,436		A	4.5



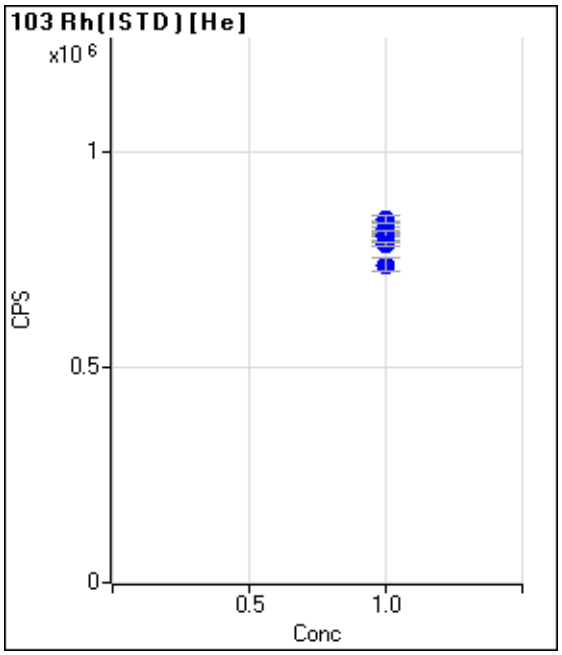
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		987,433		P	2.2
2	☐	1.000		999,605		P	2.4
3	☐	1.000		1,015,253		P	2.5
4	☐	1.000		1,005,707		P	1.8
5	☐	1.000		1,027,349		P	1.3
6	☐	1.000		1,032,760		P	1.5
7	☐	1.000		990,808		P	0.7
8	☐	1.000		1,003,310		P	1.9
9	☐	1.000		966,970		P	7.6
10	☐	1.000		932,875		P	1.5



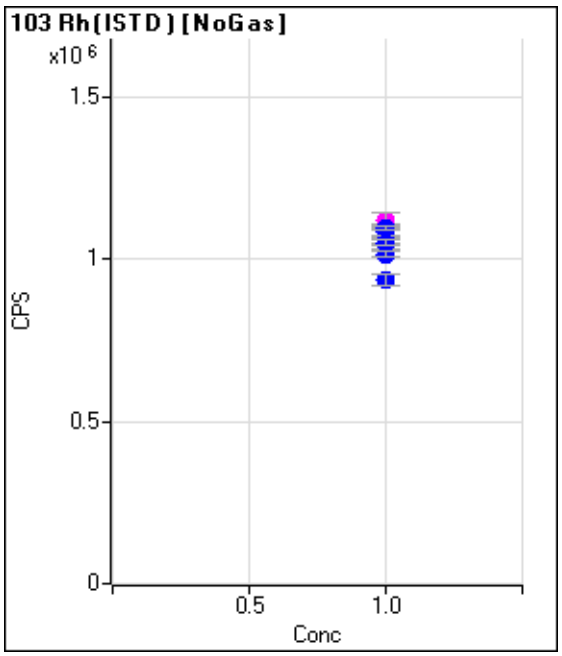
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		339,354		P	1.8
2	☐	1.000		337,740		P	0.6
3	☐	1.000		341,628		P	1.0
4	☐	1.000		340,986		P	0.7
5	☐	1.000		342,689		P	2.5
6	☐	1.000		351,089		P	1.6
7	☐	1.000		342,635		P	0.5
8	☐	1.000		344,253		P	2.2
9	☐	1.000		335,422		P	0.9
10	☐	1.000		322,712		P	2.3



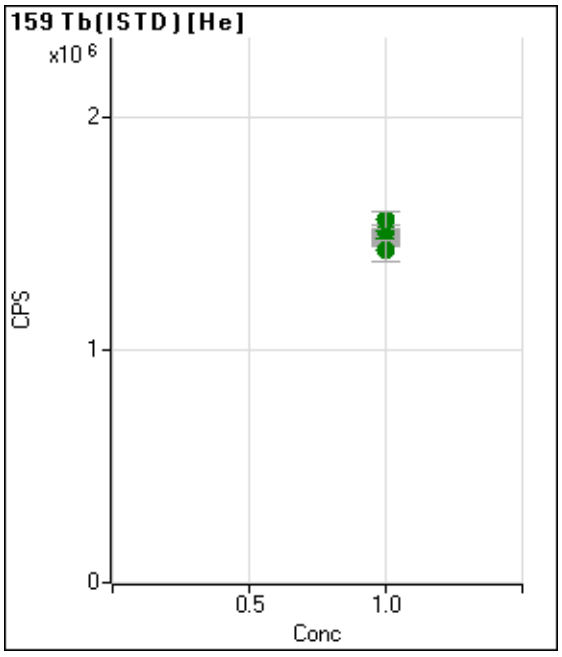
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1,038,901		P	1.1
2	☐	1.000		1,034,396		P	2.4
3	☐	1.000		1,068,836		M	4.3
4	☐	1.000		1,030,083		P	0.5
5	☐	1.000		1,035,219		P	3.2
6	☐	1.000		1,062,677		P	1.3
7	☐	1.000		1,031,402		P	2.9
8	☐	1.000		1,023,785		P	1.2
9	☐	1.000		987,649		P	1.3
10	☐	1.000		942,854		P	2.7



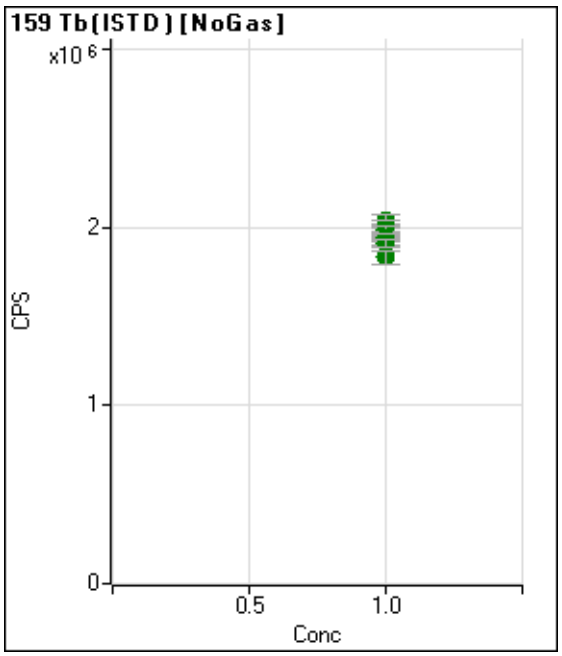
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		825,137		P	3.1
2	☐	1.000		812,398		P	1.6
3	☐	1.000		820,785		P	1.8
4	☐	1.000		813,503		P	1.4
5	☐	1.000		821,114		P	4.0
6	☐	1.000		842,863		P	2.0
7	☐	1.000		807,651		P	1.0
8	☐	1.000		805,481		P	2.7
9	☐	1.000		785,915		P	1.3
10	☐	1.000		738,793		P	4.4



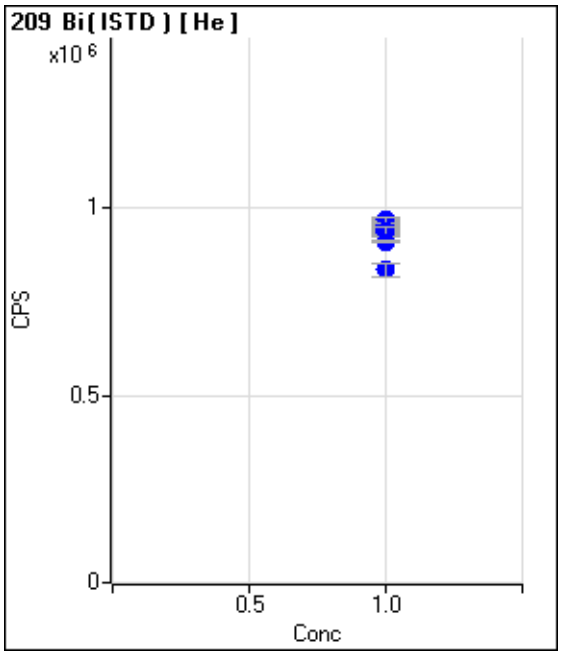
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1,088,224		P	3.2
2	☐	1.000		1,086,706		P	3.2
3	☐	1.000		1,118,069		M	4.4
4	☐	1.000		1,069,647		P	0.2
5	☐	1.000		1,075,073		P	5.0
6	☐	1.000		1,097,083		P	1.3
7	☐	1.000		1,049,638		P	4.0
8	☐	1.000		1,051,771		P	1.9
9	☐	1.000		1,014,986		P	2.0
10	☐	1.000		937,123		P	3.8



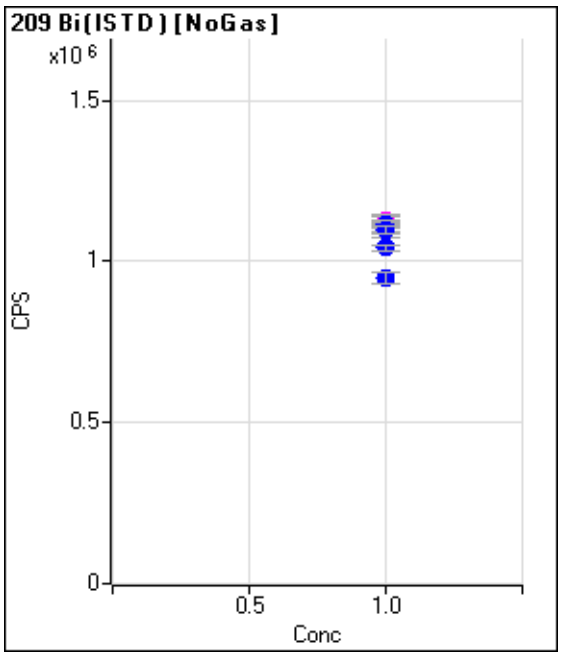
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1,515,320		A	3.6
2	☐	1.000		1,500,283		A	1.9
3	☐	1.000		1,515,123		A	0.7
4	☐	1.000		1,490,519		A	1.5
5	☐	1.000		1,487,091		A	4.6
6	☐	1.000		1,561,724		A	4.8
7	☐	1.000		1,492,331		A	1.1
8	☐	1.000		1,480,279		A	1.4
9	☐	1.000		1,464,624		A	0.6
10	☐	1.000		1,431,389		A	6.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1,977,781		A	4.1
2	☐	1.000		2,007,042		A	3.2
3	☐	1.000		2,034,814		A	3.7
4	☐	1.000		1,960,925		A	1.1
5	☐	1.000		1,988,552		A	5.3
6	☐	1.000		1,989,640		A	1.6
7	☐	1.000		1,935,830		A	3.7
8	☐	1.000		1,943,012		A	2.2
9	☐	1.000		1,907,508		A	1.9
10	☐	1.000		1,828,849		A	4.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		951,105		P	2.7
2	☐	1.000		941,755		P	1.0
3	☐	1.000		947,754		P	1.9
4	☐	1.000		943,385		P	0.9
5	☐	1.000		952,589		P	3.4
6	☐	1.000		968,606		P	1.8
7	☐	1.000		935,712		P	1.1
8	☐	1.000		937,795		P	2.7
9	☐	1.000		911,210		P	1.0
10	☐	1.000		835,898		P	4.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1,103,863		P	1.9
2	☐	1.000		1,117,527		P	4.2
3	☐	1.000		1,126,022		M	3.7
4	☐	1.000		1,109,867		P	1.0
5	☐	1.000		1,112,215		P	4.8
6	☐	1.000		1,116,708		P	1.6
7	☐	1.000		1,096,375		P	4.3
8	☐	1.000		1,100,051		P	2.2
9	☐	1.000		1,043,547		P	1.6
10	☐	1.000		948,166		P	3.7

P/A Factor Tuning Report

```
=================== Current Sample ====================
 Sample Name:    0F03039-ICV1
   Data File:    017_ICV.d
    Acquired:    6/3/2020 11:24:15

========= Detector Parameters and P/A Factors =========
  Discriminator:    4.5 mV
       AnalogHV:   1819 V
        PulseHV:   1269 V

       Acquired: 6/3/2020 09:26:48

      Mass[u]      Element   P/A Factor
          6           Li     0.084266
         23           Na     0.109047
         39            K     0.119252
         45           Sc     0.120239
         56           Fe     0.122102
         74           Ge     0.133717
        103           Rh     0.135907
        159           Tb     0.137867
        209           Bi     0.141259
         24           Mg    Signal too low
         27           Al    Signal too low
         44           Ca    Signal too low
         47           Ti    Signal too low
         51            V    Signal too low
         52           Cr    Signal too low
         55           Mn    Signal too low
         57           Fe    Signal too low
         59           Co    Signal too low
         60           Ni    Signal too low
         65           Cu    Signal too low
         66           Zn    Signal too low
         95           Mo    Signal too low
        107           Ag    Signal too low
        111           Cd    Signal too low
        121           Sb    Signal too low
        138           Ba    Signal too low
        205           Tl    Signal too low
        206         [Pb]    Signal too low
        207         [Pb]    Signal too low
        208           Pb    Signal too low

=== Independent Detector Parameters and P/A Factors ===
 Tune Mode Name: H2
  Discriminator:    4.5 mV
       AnalogHV:   1819 V
        PulseHV:   1269 V

       Acquired: 6/3/2020 11:08:10

      Mass[u]      Element   P/A Factor
         44           Ca     0.123119
         45           Sc     0.121444
         56           Fe     0.130246
         57           Fe     0.128599
         74           Ge     0.135518
         78           Se    Signal too low

-------------------------------------------------------
 Tune Mode Name: He
  Discriminator:    4.5 mV
       AnalogHV:   1819 V
        PulseHV:   1269 V

       Acquired: 6/3/2020 11:19:05
```

Mass[u]	Element	P/A Factor
23	Na	0.109420
24	Mg	0.112301
27	Al	0.116529
39	K	0.119647
44	Ca	0.120092
45	Sc	0.122053
51	V	0.123733
52	Cr	0.125121
55	Mn	0.126880
59	Co	0.129112
60	Ni	0.129961
65	Cu	0.131592
66	Zn	0.129625
103	Rh	0.135585
107	Ag	0.136466
111	Cd	0.135783
138	Ba	0.136448
159	Tb	0.138660
205	Tl	0.139651
209	Bi	0.141835
74	Ge	Signal too low
75	As	Signal too low
95	Mo	Signal too low
121	Sb	Signal too low

Tune Mode Name: NoGas
Discriminator: 4.5 mV
AnalogHV: 1819 V
PulseHV: 1269 V

Acquired: 6/3/2020 11:15:17

Mass[u]	Element	P/A Factor
6	Li	0.083730
45	Sc	0.119217
47	Ti	0.121037
65	Cu	0.131607
74	Ge	0.131496
103	Rh	0.133821
111	Cd	0.135085
159	Tb	0.135884
182	W	0.137692
206	Pb	0.138533
207	Pb	0.138262
208	Pb	0.139374
209	Bi	0.139062
7	Li	Signal too low
9	Be	Signal too low
106	[Cd]	Signal too low
108	[Cd]	Signal too low
201	Hg	Signal too low

Created: 6/4/2020 08:04:07

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL0**	Total Dilution:	**1.0000**
File Name:	005CALB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalBlk
Acq Time:	6/3/2020 10:20:11	I.S. Reference File:	005CALB.d
Comment:	**Cal Blk (3.5% HNO3 + 0.4% HCl)**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0.012	ppb	28.4	99	8.5	
Na	23	45	He	0.897	ppb	41.3	19,730	0.3	
Mg	24	45	He	0.477	ppb	65.9	4,962	3.0	
Al	27	45	He	0.143	ppb	92.6	459	13.6	
K	39	45	He	0.951	ppb	278.2	63,832	0.3	
Ca	44	45	H2	-0.146	ppb	N/A	2,066	7.8	
[Ca]	44	45	He	0.694	ppb	129.5	528	4.7	
Ti	47	45	NoGas	-0.04	ppb	N/A	83	21.1	
V	51	74	He	0.018	ppb	96.5	2,142	3.0	
Cr	52	74	He	0.01	ppb	7.6	591	0.9	
Mn	55	74	He	0.007	ppb	88.1	237	12.2	
Fe	56	74	H2	0.519	ppb	29.1	63,761	2.1	
Co	59	74	He	-0.002	ppb	N/A	169	8.0	
Ni	60	74	He	0.029	ppb	44.9	370	6.3	
Cu	65	74	He	0.001	ppb	3707.0	398	16.6	
Zn	66	74	He	-0.015	ppb	N/A	111	9.2	
As	75	74	He	0.007	ppb	437.8	54	32.3	
Se	78	74	H2	0.01	ppb	13.4	7	8.7	
Mo	95	103	He	0.016	ppb	21.7	68	12.4	
Ag	107	103	He	-0.003	ppb	N/A	11	91.7	
Cd	111	103	He	0.001	ppb	99.3	3	33.3	
[Cd]	111	103	NoGas	0.004	ppb	175.8	8	224.9	
Sb	121	103	He	0	ppb	289.6	34	14.8	
Ba	138	159	He	-0.004	ppb	N/A	709	14.7	
W	182	159	NoGas	0	ppb	2655.5	77	15.7	
Hg	201	159	NoGas	-2.208	ppt	N/A	9	23.6	
Tl	205	159	He	0	ppb	N/A	32	12.0	
Pb	208	159	NoGas	0	ppb	753.8	338	6.7	

Not used. JSJ 06/04/20

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,149,049	2.1	1149048.50333333	Analog	100.0	
Sc	45	H2	3,023,116	2.2	3023115.72	Analog	100.0	
Sc	45	He	515,415	3.0	515414.793333333	Pulse	100.0	
Sc	45	NoGas	3,875,611	2.6	3875611.3	Analog	100.0	
Ge	74	H2	1,007,571	1.6	1007570.88666667	Pulse	100.0	
Ge	74	He	334,352	1.6	334352.233333333	Pulse	100.0	
Ge	74	NoGas	1,034,392	1.6	1034392.02666667	Pulse	100.0	
Rh	103	He	810,939	2.6	810939.266666667	Pulse	100.0	
Rh	103	NoGas	1,105,059	4.4	1105058.87	Mix	100.0	
Tb	159	He	1,569,707	3.2	1569707.14666667	Analog	100.0	
Tb	159	NoGas	2,130,534	2.6	2130534.46666667	Analog	100.0	
Bi	209	He	935,724	1.5	935723.666666667	Pulse	100.0	
Bi	209	NoGas	1,102,269	1.1	1102268.85	Pulse	100.0	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL1**	Total Dilution:	**1.0000**
File Name:	006CALS.d	Vial:	1102
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 10:25:20	I.S. Reference File:	005CALB.d
Comment:	**A20E188 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0.184	ppb	5.8	627	6.5	
Na	23	45	He	8.143	ppb	5.1	31,584	0.8	
Mg	24	45	He	9.069	ppb	1.1	12,760	1.4	
Al	27	45	He	8.634	ppb	1.6	4,751	1.8	
K	39	45	He	9.987	ppb	12.8	71,274	0.2	
Ca	44	45	H2	51.735	ppb	1.8	16,716	2.7	
[Ca]	44	45	He	53.665	ppb	4.3	2,651	2.5	
Ti	47	45	NoGas	0.153	ppb	52.0	340	27.2	
V	51	74	He	0.184	ppb	7.9	2,974	2.3	
Cr	52	74	He	0.175	ppb	3.6	1,572	1.8	
Mn	55	74	He	0.175	ppb	7.2	1,000	6.0	
Fe	56	74	H2	8.253	ppb	1.6	184,238	0.8	
Co	59	74	He	0.19	ppb	6.5	1,650	5.4	
Ni	60	74	He	0.16	ppb	16.2	630	8.0	
Cu	65	74	He	0.069	ppb	20.9	567	6.1	
Zn	66	74	He	0.106	ppb	20.5	231	9.6	
As	75	74	He	0.208	ppb	9.4	177	6.1	
Se	78	74	H2	0.188	ppb	9.8	68	7.4	
Mo	95	103	He	0.192	ppb	11.5	553	10.6	
Ag	107	103	He	0.176	ppb	4.6	1,497	3.3	
Cd	111	103	He	0.183	ppb	9.8	247	8.8	
[Cd]	111	103	NoGas	0.187	ppb	6.0	442	8.0	
Sb	121	103	He	0.171	ppb	10.0	720	9.9	
Ba	138	159	He	0.113	ppb	5.9	1,830	3.2	
W	182	159	NoGas	0.002	ppb	97.3	89	20.7	
Hg	201	159	NoGas	5.733	ppt	43.8	18	15.1	
Tl	205	159	He	0.172	ppb	1.5	3,286	1.0	
Pb	208	159	NoGas	0.195	ppb	1.0	5,605	2.9	

Not used. JSJ 06/04/20

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,181,503	2.1	1149048.50333333	Analog	102.8	
Sc	45	H2	2,897,200	3.0	3023115.72	Analog	95.8	
Sc	45	He	517,708	1.4	515414.793333333	Pulse	100.4	
Sc	45	NoGas	3,900,587	3.6	3875611.3	Analog	100.6	
Ge	74	H2	988,557	1.9	1007570.88666667	Pulse	98.1	
Ge	74	He	337,225	0.8	334352.233333333	Pulse	100.9	
Ge	74	NoGas	1,046,272	1.8	1034392.02666667	Pulse	101.1	
Rh	103	He	818,427	1.2	810939.266666667	Pulse	100.9	
Rh	103	NoGas	1,099,516	2.7	1105058.87	Pulse	99.5	
Tb	159	He	1,491,923	1.2	1569707.14666667	Analog	95.0	
Tb	159	NoGas	1,987,692	2.2	2130534.46666667	Analog	93.3	
Bi	209	He	944,166	0.7	935723.666666667	Pulse	100.9	
Bi	209	NoGas	1,124,170	2.7	1102268.85	Pulse	102.0	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL0**	Total Dilution:	**1.0000**
File Name:	007CALB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalBlk
Acq Time:	6/3/2020 10:30:49	I.S. Reference File:	007CALB.d
Comment:	**Cal Blk (3.5% HNO3 + 0.4% HCl)**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0	ppb	N/A	64	23.3	
Na	23	45	He	0	ppb	N/A	18,634	0.7	
Mg	24	45	He	0	ppb	N/A	4,622	3.9	
Al	27	45	He	0	ppb	N/A	393	15.4	
K	39	45	He	0	ppb	N/A	64,317	1.3	
Ca	44	45	H2	0	ppb	N/A	2,027	5.8	
[Ca]	44	45	He	0	ppb	N/A	510	1.7	
Ti	47	45	NoGas	0	ppb	N/A	137	31.1	
V	51	74	He	0	ppb	N/A	2,087	2.3	
Cr	52	74	He	0	ppb	N/A	538	12.2	
Mn	55	74	He	0	ppb	N/A	209	18.5	
Fe	56	74	H2	0	ppb	N/A	54,333	1.0	
Co	59	74	He	0	ppb	N/A	189	4.4	
Ni	60	74	He	0	ppb	N/A	319	13.1	
Cu	65	74	He	0	ppb	N/A	402	5.5	
Zn	66	74	He	0	ppb	N/A	128	14.8	
As	75	74	He	0	ppb	N/A	51	12.1	
Se	78	74	H2	0	ppb	N/A	3	57.7	
Mo	95	103	He	0	ppb	N/A	23	37.8	
Ag	107	103	He	0	ppb	N/A	34	31.1	
Cd	111	103	He	0	ppb	N/A	2	50.0	
[Cd]	111	103	NoGas	0	ppb	N/A	-2	-115.1	
Sb	121	103	He	0	ppb	N/A	33	26.5	
Ba	138	159	He	0	ppb	N/A	723	12.0	
W	182	159	NoGas	0	ppb	N/A	71	38.2	
Hg	201	159	NoGas	0.198	ppt	1870.7	11	38.8	
Tl	205	159	He	0	ppb	N/A	34	5.6	
Pb	208	159	NoGas	0	ppb	N/A	309	15.8	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,184,451	4.2	1184450.92333333	Analog	100.0	
Sc	45	H2	2,901,324	3.8	2901323.77666667	Analog	100.0	
Sc	45	He	525,307	2.9	525306.603333333	Pulse	100.0	
Sc	45	NoGas	3,897,407	2.5	3897406.83333333	Analog	100.0	
Ge	74	H2	987,433	2.2	987432.603333333	Pulse	100.0	
Ge	74	He	339,354	1.8	339353.55	Pulse	100.0	
Ge	74	NoGas	1,038,901	1.1	1038900.56	Pulse	100.0	
Rh	103	He	825,137	3.1	825137.02	Pulse	100.0	
Rh	103	NoGas	1,088,224	3.2	1088224.48333333	Pulse	100.0	
Tb	159	He	1,515,320	3.6	1515319.94333333	Analog	100.0	
Tb	159	NoGas	1,977,781	4.1	1977780.97666667	Analog	100.0	
Bi	209	He	951,105	2.7	951105.013333333	Pulse	100.0	
Bi	209	NoGas	1,103,863	1.9	1103862.58666667	Pulse	100.0	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL1**	Total Dilution:	**1.0000**
File Name:	008CALS.d	Vial:	1102
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 10:35:58	I.S. Reference File:	007CALB.d
Comment:	**A20E188 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0.193	ppb	13.1	636	12.6	
Na	23	45	He	7.942	ppb	5.3	31,490	1.6	
Mg	24	45	He	8.439	ppb	3.4	12,281	2.8	
Al	27	45	He	8.246	ppb	6.6	4,587	5.4	
K	39	45	He	10.084	ppb	16.7	71,876	1.1	
Ca	44	45	H2	50.17	ppb	4.4	16,777	1.6	
[Ca]	44	45	He	50.815	ppb	12.2	2,557	9.9	
Ti	47	45	NoGas	0.188	ppb	11.6	395	12.1	
V	51	74	He	0.192	ppb	2.2	3,023	1.1	
Cr	52	74	He	0.186	ppb	6.4	1,642	4.5	
Mn	55	74	He	0.156	ppb	12.7	911	9.4	
Fe	56	74	H2	7.68	ppb	2.8	177,163	0.6	
Co	59	74	He	0.184	ppb	4.5	1,607	3.4	
Ni	60	74	He	0.176	ppb	2.6	661	0.8	
Cu	65	74	He	0.087	ppb	14.3	611	4.4	
Zn	66	74	He	0.138	ppb	13.8	263	6.7	
As	75	74	He	0.191	ppb	3.9	167	3.1	
Se	78	74	H2	0.202	ppb	2.2	73	4.4	
Mo	95	103	He	0.198	ppb	6.5	564	5.0	
Ag	107	103	He	0.189	ppb	5.7	1,593	4.2	
Cd	111	103	He	0.181	ppb	9.8	242	8.2	
[Cd]	111	103	NoGas	0.199	ppb	7.6	464	9.8	
Sb	121	103	He	0.203	ppb	3.9	841	2.4	
Ba	138	159	He	0.135	ppb	8.4	2,061	6.1	
W	182	159	NoGas	0.001	ppb	108.9	86	17.6	
Hg	201	159	NoGas	6.18	ppt	57.8	18	20.8	
Tl	205	159	He	0.17	ppb	2.0	3,266	3.6	
Pb	208	159	NoGas	0.182	ppb	2.9	5,305	0.5	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,144,308	2.0	1184450.92333333	Analog	96.6	
Sc	45	H2	2,988,667	2.6	2901323.77666667	Analog	103.0	
Sc	45	He	521,516	1.1	525306.603333333	Pulse	99.3	
Sc	45	NoGas	3,938,913	4.4	3897406.83333333	Analog	101.1	
Ge	74	H2	999,605	2.4	987432.603333333	Pulse	101.2	
Ge	74	He	337,740	0.6	339353.55	Pulse	99.5	
Ge	74	NoGas	1,034,396	2.4	1038900.56	Pulse	99.6	
Rh	103	He	812,398	1.6	825137.02	Pulse	98.5	
Rh	103	NoGas	1,086,706	3.2	1088224.48333333	Pulse	99.9	
Tb	159	He	1,500,283	1.9	1515319.94333333	Analog	99.0	
Tb	159	NoGas	2,007,042	3.2	1977780.97666667	Analog	101.5	
Bi	209	He	941,755	1.0	951105.013333333	Pulse	99.0	
Bi	209	NoGas	1,117,527	4.2	1103862.58666667	Pulse	101.2	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL2**	Total Dilution:	**1.0000**
File Name:	009CALS.d	Vial:	1103
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 10:41:22	I.S. Reference File:	007CALB.d
Comment:	**A20E189 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0.881	ppb	6.6	2,835	7.3	
Na	23	45	He	41.135	ppb	2.5	86,883	0.9	
Mg	24	45	He	43.081	ppb	1.3	44,414	0.2	
Al	27	45	He	43.789	ppb	1.1	22,976	1.8	
K	39	45	He	44.673	ppb	3.6	100,663	0.4	
Ca	44	45	H2	249.113	ppb	3.3	76,253	0.4	
[Ca]	44	45	He	261.501	ppb	4.4	11,198	3.0	
Ti	47	45	NoGas	0.867	ppb	14.6	1,334	9.2	
V	51	74	He	0.908	ppb	3.6	6,610	2.0	
Cr	52	74	He	0.849	ppb	2.9	5,643	1.8	
Mn	55	74	He	0.886	ppb	4.1	4,261	4.4	
Fe	56	74	H2	39.817	ppb	2.7	698,993	0.5	
Co	59	74	He	0.922	ppb	4.4	7,391	3.5	
Ni	60	74	He	0.821	ppb	4.2	1,946	4.1	
Cu	65	74	He	0.817	ppb	3.2	2,412	2.2	
Zn	66	74	He	0.816	ppb	10.0	942	8.6	
As	75	74	He	0.97	ppb	1.8	649	2.7	
Se	78	74	H2	0.891	ppb	7.0	319	8.7	
Mo	95	103	He	0.934	ppb	3.7	2,606	5.2	
Ag	107	103	He	0.92	ppb	4.1	7,690	2.2	
Cd	111	103	He	0.929	ppb	2.9	1,247	2.2	
[Cd]	111	103	NoGas	0.835	ppb	10.2	2,000	6.0	
Sb	121	103	He	0.887	ppb	3.3	3,604	1.8	
Ba	138	159	He	0.857	ppb	2.0	9,352	1.3	
W	182	159	NoGas	0.003	ppb	25.1	102	3.8	
Hg	201	159	NoGas	30.47	ppt	18.0	48	11.1	
Tl	205	159	He	0.862	ppb	1.9	16,553	1.7	
Pb	208	159	NoGas	0.89	ppb	10.8	24,964	7.3	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,213,493	4.1	1184450.92333333	Analog	102.5	
Sc	45	H2	3,037,695	3.5	2901323.77666667	Analog	104.7	
Sc	45	He	528,392	1.3	525306.603333333	Pulse	100.6	
Sc	45	NoGas	4,010,432	3.9	3897406.83333333	Analog	102.9	
Ge	74	H2	1,015,253	2.5	987432.603333333	Pulse	102.8	
Ge	74	He	341,628	1.0	339353.55	Pulse	100.7	
Ge	74	NoGas	1,068,836	4.3	1038900.56	Mix	102.9	
Rh	103	He	820,785	1.8	825137.02	Pulse	99.5	
Rh	103	NoGas	1,118,069	4.4	1088224.48333333	Mix	102.7	
Tb	159	He	1,515,123	0.7	1515319.94333333	Analog	100.0	
Tb	159	NoGas	2,034,814	3.7	1977780.97666667	Analog	102.9	
Bi	209	He	947,754	1.9	951105.013333333	Pulse	99.6	
Bi	209	NoGas	1,126,022	3.7	1103862.58666667	Mix	102.0	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL3**	Total Dilution:	**1.0000**
File Name:	010CALS.d	Vial:	1104
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 10:46:44	I.S. Reference File:	007CALB.d
Comment:	**A20E190 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	1.815	ppb	3.6	5,541	2.5	
Na	23	45	He	82.521	ppb	2.5	154,790	0.8	
Mg	24	45	He	85.862	ppb	2.1	83,551	1.4	
Al	27	45	He	85.482	ppb	3.2	44,279	2.0	
K	39	45	He	87.292	ppb	2.7	134,406	0.2	
Ca	44	45	H2	500.322	ppb	1.7	149,834	0.9	
[Ca]	44	45	He	511.543	ppb	0.6	21,334	1.1	
Ti	47	45	NoGas	1.713	ppb	2.9	2,447	3.1	
V	51	74	He	1.778	ppb	0.8	10,913	0.5	
Cr	52	74	He	1.725	ppb	1.1	10,880	1.5	
Mn	55	74	He	1.642	ppb	3.3	7,703	3.0	
Fe	56	74	H2	83.072	ppb	2.1	1,384,822	1.3	
Co	59	74	He	1.841	ppb	3.4	14,537	2.8	
Ni	60	74	He	1.715	ppb	5.8	3,705	5.0	
Cu	65	74	He	1.718	ppb	4.0	4,617	3.4	
Zn	66	74	He	1.589	ppb	5.6	1,709	4.5	
As	75	74	He	1.803	ppb	3.0	1,159	2.2	
Se	78	74	H2	1.722	ppb	7.1	607	5.2	
Mo	95	103	He	1.785	ppb	2.4	4,913	2.0	
Ag	107	103	He	1.794	ppb	2.7	14,837	1.6	
Cd	111	103	He	1.859	ppb	2.0	2,471	2.5	
[Cd]	111	103	NoGas	1.814	ppb	1.0	4,172	0.8	
Sb	121	103	He	1.833	ppb	2.6	7,351	2.7	
Ba	138	159	He	1.73	ppb	3.3	17,858	4.0	
W	182	159	NoGas	0.002	ppb	197.1	87	37.9	
Hg	201	159	NoGas	74.79	ppt	2.4	97	2.1	
Tl	205	159	He	1.739	ppb	2.0	32,802	0.8	
Pb	208	159	NoGas	1.847	ppb	1.4	49,714	2.6	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,165,704	1.8	1184450.92333333	Analog	98.4	
Sc	45	H2	3,012,732	2.6	2901323.77666667	Analog	103.8	
Sc	45	He	526,233	1.5	525306.603333333	Pulse	100.2	
Sc	45	NoGas	3,914,618	0.3	3897406.83333333	Analog	100.4	
Ge	74	H2	1,005,707	1.8	987432.603333333	Pulse	101.9	
Ge	74	He	340,986	0.7	339353.55	Pulse	100.5	
Ge	74	NoGas	1,030,083	0.5	1038900.56	Pulse	99.2	
Rh	103	He	813,503	1.4	825137.02	Pulse	98.6	
Rh	103	NoGas	1,069,647	0.2	1088224.48333333	Pulse	98.3	
Tb	159	He	1,490,519	1.5	1515319.94333333	Analog	98.4	
Tb	159	NoGas	1,960,925	1.1	1977780.97666667	Analog	99.1	
Bi	209	He	943,385	0.9	951105.013333333	Pulse	99.2	
Bi	209	NoGas	1,109,867	1.0	1103862.58666667	Pulse	100.5	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL4**	Total Dilution:	**1.0000**
File Name:	011CALS.d	Vial:	1105
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 10:52:06	I.S. Reference File:	007CALB.d
Comment:	**A20E191 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	3.625	ppb	3.4	10,890	1.1	
Na	23	45	He	168.493	ppb	4.9	299,399	0.8	
Mg	24	45	He	173.579	ppb	3.9	165,744	0.1	
Al	27	45	He	172.296	ppb	4.4	89,696	0.6	
K	39	45	He	176.493	ppb	7.1	207,818	1.2	
Ca	44	45	H2	988.114	ppb	1.1	303,131	1.1	
[Ca]	44	45	He	1025.489	ppb	4.5	42,650	1.1	
Ti	47	45	NoGas	3.424	ppb	4.6	4,767	6.1	
V	51	74	He	3.586	ppb	3.3	19,970	0.7	
Cr	52	74	He	3.48	ppb	4.0	21,500	1.7	
Mn	55	74	He	3.367	ppb	4.5	15,638	2.3	
Fe	56	74	H2	164.577	ppb	0.9	2,747,401	0.4	
Co	59	74	He	3.678	ppb	3.8	28,990	1.9	
Ni	60	74	He	3.45	ppb	6.3	7,159	3.7	
Cu	65	74	He	3.58	ppb	4.4	9,222	2.0	
Zn	66	74	He	3.536	ppb	5.4	3,664	5.2	
As	75	74	He	3.735	ppb	2.9	2,359	0.9	
Se	78	74	H2	3.554	ppb	1.7	1,277	2.1	
Mo	95	103	He	3.559	ppb	4.0	9,862	3.8	
Ag	107	103	He	3.612	ppb	5.0	30,085	1.2	
Cd	111	103	He	3.605	ppb	5.6	4,828	2.0	
[Cd]	111	103	NoGas	3.723	ppb	6.9	8,590	2.5	
Sb	121	103	He	3.591	ppb	3.0	14,489	1.1	
Ba	138	159	He	3.527	ppb	5.5	35,532	1.8	
W	182	159	NoGas	0.002	ppb	50.3	87	3.8	
Hg	201	159	NoGas	138.459	ppt	10.2	173	4.9	
Tl	205	159	He	3.535	ppb	5.3	66,374	0.6	
Pb	208	159	NoGas	3.671	ppb	4.6	99,717	1.4	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,154,073	3.9	1184450.92333333	Analog	97.4	
Sc	45	H2	3,107,099	1.6	2901323.77666667	Analog	107.1	
Sc	45	He	531,698	3.8	525306.603333333	Pulse	101.2	
Sc	45	NoGas	3,927,185	5.8	3897406.83333333	Analog	100.8	
Ge	74	H2	1,027,349	1.3	987432.603333333	Pulse	104.0	
Ge	74	He	342,689	2.5	339353.55	Pulse	101.0	
Ge	74	NoGas	1,035,219	3.2	1038900.56	Pulse	99.6	
Rh	103	He	821,114	4.0	825137.02	Pulse	99.5	
Rh	103	NoGas	1,075,073	5.0	1088224.48333333	Pulse	98.8	
Tb	159	He	1,487,091	4.6	1515319.94333333	Analog	98.1	
Tb	159	NoGas	1,988,552	5.3	1977780.97666667	Analog	100.5	
Bi	209	He	952,589	3.4	951105.013333333	Pulse	100.2	
Bi	209	NoGas	1,112,215	4.8	1103862.58666667	Pulse	100.8	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL5**	Total Dilution:	**1.0000**
File Name:	012CALS.d	Vial:	1106
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 10:57:28	I.S. Reference File:	007CALB.d
Comment:	**A20E192 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	10.032	ppb	0.4	31,135	2.1	
Na	23	45	He	370.057	ppb	2.4	654,257	0.5	
Mg	24	45	He	380.791	ppb	2.1	368,806	0.3	
Al	27	45	He	376.717	ppb	2.8	201,548	1.1	
K	39	45	He	386.055	ppb	2.2	388,820	0.1	
Ca	44	45	H2	369.578	ppb	1.8	114,900	0.4	
[Ca]	44	45	He	371.641	ppb	1.8	16,265	1.8	
Ti	47	45	NoGas	19.362	ppb	0.3	26,804	0.7	
V	51	74	He	19.561	ppb	1.2	102,038	0.5	
Cr	52	74	He	18.997	ppb	1.8	117,810	0.2	
Mn	55	74	He	18.407	ppb	2.0	86,667	0.5	
Fe	56	74	H2	367.089	ppb	0.5	6,090,601	1.1	
Co	59	74	He	19.991	ppb	1.9	160,628	0.5	
Ni	60	74	He	19.692	ppb	1.0	40,353	1.1	
Cu	65	74	He	20.429	ppb	1.7	51,981	0.5	
Zn	66	74	He	19.726	ppb	2.9	20,333	2.0	
As	75	74	He	19.608	ppb	1.9	12,466	0.8	
Se	78	74	H2	9.912	ppb	1.5	3,574	2.7	
Mo	95	103	He	9.68	ppb	2.2	27,497	0.4	
Ag	107	103	He	9.775	ppb	1.4	83,612	0.6	
Cd	111	103	He	19.547	ppb	1.4	26,892	0.6	
[Cd]	111	103	NoGas	19.695	ppb	1.8	46,475	0.7	
Sb	121	103	He	9.776	ppb	1.8	40,457	0.5	
Ba	138	159	He	18.816	ppb	5.1	195,835	0.5	
W	182	159	NoGas	0.004	ppb	50.9	107	16.5	
Hg	201	159	NoGas	396.347	ppt	3.6	476	5.2	
Tl	205	159	He	9.319	ppb	4.3	183,767	0.8	
Pb	208	159	NoGas	20.417	ppb	1.6	554,272	1.5	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,195,457	2.2	1184450.92333333	Analog	100.9	
Sc	45	H2	3,111,949	2.0	2901323.77666667	Analog	107.3	
Sc	45	He	547,334	1.9	525306.603333333	Pulse	104.2	
Sc	45	NoGas	3,998,144	0.5	3897406.83333333	Analog	102.6	
Ge	74	H2	1,032,760	1.5	987432.603333333	Pulse	104.6	
Ge	74	He	351,089	1.6	339353.55	Pulse	103.5	
Ge	74	NoGas	1,062,677	1.3	1038900.56	Pulse	102.3	
Rh	103	He	842,863	2.0	825137.02	Pulse	102.1	
Rh	103	NoGas	1,097,083	1.3	1088224.48333333	Pulse	100.8	
Tb	159	He	1,561,724	4.8	1515319.94333333	Analog	103.1	
Tb	159	NoGas	1,989,640	1.6	1977780.97666667	Analog	100.6	
Bi	209	He	968,606	1.8	951105.013333333	Pulse	101.8	
Bi	209	NoGas	1,116,708	1.6	1103862.58666667	Pulse	101.2	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL6**	Total Dilution:	**1.0000**
File Name:	013CALS.d	Vial:	1107
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 11:02:50	I.S. Reference File:	007CALB.d
Comment:	**A20D400**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	50.013	ppb	2.6	152,781	1.0	
Na	23	45	He	2386.256	ppb	0.5	3,986,271	1.0	
Mg	24	45	He	2425.576	ppb	1.7	2,251,506	1.1	
Al	27	45	He	2385.474	ppb	1.9	1,234,772	1.5	
K	39	45	He	2442.86	ppb	1.3	2,038,206	0.7	
Ca	44	45	H2	13997.028	ppb	2.2	4,077,317	0.3	
[Ca]	44	45	He	13995.275	ppb	0.9	574,634	0.7	
Ti	47	45	NoGas	47.698	ppb	3.0	64,009	0.7	
V	51	74	He	49.393	ppb	0.6	248,265	0.7	
Cr	52	74	He	47.272	ppb	1.4	285,339	1.2	
Mn	55	74	He	46.023	ppb	1.6	211,202	1.4	
Fe	56	74	H2	2335.506	ppb	0.7	36,884,040	0.5	
Co	59	74	He	49.82	ppb	1.0	390,456	0.7	
Ni	60	74	He	48.537	ppb	0.9	96,601	0.7	
Cu	65	74	He	50.214	ppb	1.4	124,115	0.9	
Zn	66	74	He	48.654	ppb	0.5	48,766	0.5	
As	75	74	He	49.771	ppb	0.6	30,808	0.6	
Se	78	74	H2	50.046	ppb	1.5	17,298	1.1	
Mo	95	103	He	50.069	ppb	1.8	136,221	1.0	
Ag	107	103	He	49.52	ppb	1.2	405,799	0.2	
Cd	111	103	He	50.244	ppb	1.4	66,240	0.5	
[Cd]	111	103	NoGas	49.975	ppb	3.6	112,741	0.6	
Sb	121	103	He	49.77	ppb	1.6	197,248	0.6	
Ba	138	159	He	48.596	ppb	1.4	482,911	0.4	
W	182	159	NoGas	0.014	ppb	39.1	202	25.6	
Hg	201	159	NoGas	2022.345	ppt	4.1	2,317	0.6	
Tl	205	159	He	47.532	ppb	1.1	896,700	0.6	
Pb	208	159	NoGas	51.097	ppb	2.8	1,348,417	1.2	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,179,010	1.7	1184450.92333333	Analog	99.5	
Sc	45	H2	2,970,779	2.2	2901323.77666667	Analog	102.4	
Sc	45	He	530,303	0.6	525306.603333333	Pulse	101.0	
Sc	45	NoGas	3,890,761	3.7	3897406.83333333	Analog	99.8	
Ge	74	H2	990,808	0.7	987432.603333333	Pulse	100.3	
Ge	74	He	342,635	0.5	339353.55	Pulse	101.0	
Ge	74	NoGas	1,031,402	2.9	1038900.56	Pulse	99.3	
Rh	103	He	807,651	1.0	825137.02	Pulse	97.9	
Rh	103	NoGas	1,049,638	4.0	1088224.48333333	Pulse	96.5	
Tb	159	He	1,492,331	1.1	1515319.94333333	Analog	98.5	
Tb	159	NoGas	1,935,830	3.7	1977780.97666667	Analog	97.9	
Bi	209	He	935,712	1.1	951105.013333333	Pulse	98.4	
Bi	209	NoGas	1,096,375	4.3	1103862.58666667	Pulse	99.3	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL7**	Total Dilution:	**1.0000**
File Name:	014CALS.d	Vial:	1108
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 11:08:08	I.S. Reference File:	007CALB.d
Comment:	**A20D401**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	99.989	ppb	3.4	299,993	1.6	
Na	23	45	He	3860.099	ppb	4.0	6,376,740	0.9	
Mg	24	45	He	3917.449	ppb	4.4	3,599,683	1.5	
Al	27	45	He	3851.834	ppb	4.2	1,975,059	1.1	
K	39	45	He	3881.794	ppb	3.0	3,171,703	0.8	
Ca	44	45	H2	3795.561	ppb	2.8	1,126,750	1.3	
[Ca]	44	45	He	3808.273	ppb	3.9	155,287	0.8	
Ti	47	45	NoGas	184.446	ppb	2.7	246,596	0.4	
V	51	74	He	194.05	ppb	2.5	973,411	0.5	
Cr	52	74	He	188.099	ppb	2.7	1,138,706	0.9	
Mn	55	74	He	183.336	ppb	2.7	844,395	0.9	
Fe	56	74	H2	3733.762	ppb	2.5	59,661,322	1.2	
Co	59	74	He	199.6	ppb	2.1	1,570,724	0.7	
Ni	60	74	He	192.805	ppb	2.8	384,437	0.6	
Cu	65	74	He	197.543	ppb	2.8	489,210	0.8	
Zn	66	74	He	194.722	ppb	2.4	195,647	1.2	
As	75	74	He	198.505	ppb	2.8	123,252	1.1	
Se	78	74	H2	99.989	ppb	2.9	34,986	2.0	
Mo	95	103	He	99.999	ppb	3.4	271,176	0.9	
Ag	107	103	He	100.262	ppb	2.6	819,073	0.7	
Cd	111	103	He	200.55	ppb	3.0	263,573	1.0	
[Cd]	111	103	NoGas	196.848	ppb	2.5	445,279	1.2	
Sb	121	103	He	100.137	ppb	3.1	395,597	1.0	
Ba	138	159	He	194.623	ppb	2.7	1,916,004	1.4	
W	182	159	NoGas	0.021	ppb	19.0	269	16.1	
Hg	201	159	NoGas	3989.392	ppt	4.4	4,580	2.5	
Tl	205	159	He	101.306	ppb	1.8	1,895,485	0.5	
Pb	208	159	NoGas	203.068	ppb	2.5	5,379,572	1.0	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,159,041	4.6	1184450.92333333	Analog	97.9	
Sc	45	H2	3,023,330	1.7	2901323.77666667	Analog	104.2	
Sc	45	He	525,821	3.2	525306.603333333	Pulse	100.1	
Sc	45	NoGas	3,881,049	2.3	3897406.83333333	Analog	99.6	
Ge	74	H2	1,003,310	1.9	987432.603333333	Pulse	101.6	
Ge	74	He	344,253	2.2	339353.55	Pulse	101.4	
Ge	74	NoGas	1,023,785	1.2	1038900.56	Pulse	98.5	
Rh	103	He	805,481	2.7	825137.02	Pulse	97.6	
Rh	103	NoGas	1,051,771	1.9	1088224.48333333	Pulse	96.7	
Tb	159	He	1,480,279	1.4	1515319.94333333	Analog	97.7	
Tb	159	NoGas	1,943,012	2.2	1977780.97666667	Analog	98.2	
Bi	209	He	937,795	2.7	951105.013333333	Pulse	98.6	
Bi	209	NoGas	1,100,051	2.2	1103862.58666667	Pulse	99.7	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL8**	Total Dilution:	**1.0000**
File Name:	015CALS.d	Vial:	1109
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 11:13:22	I.S. Reference File:	007CALB.d
Comment:	**A20D402**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0.043	ppb	6.4	190	3.5	
Na	23	45	He	9614.917	ppb	3.2	15,680,954	1.2	
Mg	24	45	He	9687.141	ppb	3.0	8,797,225	1.0	
Al	27	45	He	9522.755	ppb	2.6	4,829,118	1.0	
K	39	45	He	9659.594	ppb	3.7	7,708,562	1.7	
Ca	44	45	H2	9868.151	ppb	13.7	2,796,736	2.6	
[Ca]	44	45	He	9488.167	ppb	3.7	381,851	1.7	
Ti	47	45	NoGas	468.761	ppb	1.1	607,150	0.6	
V	51	74	He	502.458	ppb	2.9	2,453,043	2.0	
Cr	52	74	He	481.207	ppb	1.7	2,838,382	1.0	
Mn	55	74	He	468.033	ppb	2.4	2,100,527	1.7	
Fe	56	74	H2	9596.014	ppb	9.5	147,033,017	2.1	
Co	59	74	He	500.178	ppb	2.5	3,835,498	1.9	
Ni	60	74	He	474.9	ppb	2.4	922,404	1.5	
Cu	65	74	He	482.661	ppb	2.4	1,164,356	1.6	
Zn	66	74	He	478.957	ppb	2.7	468,767	1.9	
As	75	74	He	500.636	ppb	2.6	302,868	1.7	
Se	78	74	H2	0.136	ppb	17.3	49	23.2	
Mo	95	103	He	0.073	ppb	5.7	216	4.5	
Ag	107	103	He	0.032	ppb	16.1	289	14.2	
Cd	111	103	He	499.774	ppb	3.3	641,012	2.0	
[Cd]	111	103	NoGas	501.275	ppb	2.3	1,094,246	0.8	
Sb	121	103	He	0.093	ppb	16.1	390	14.1	
Ba	138	159	He	477.563	ppb	1.7	4,651,609	1.2	
W	182	159	NoGas	100	ppb	1.8	910,966	1.8	
Hg	201	159	NoGas	90.993	ppt	7.5	113	4.9	
Tl	205	159	He	0.048	ppb	15.8	919	15.4	
Pb	208	159	NoGas	498.646	ppb	1.0	12,971,375	1.4	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,156,350	2.1	1184450.92333333	Analog	97.6	
Sc	45	H2	2,919,044	11.4	2901323.77666667	Analog	100.6	
Sc	45	He	519,811	2.1	525306.603333333	Pulse	99.0	
Sc	45	NoGas	3,759,986	1.5	3897406.83333333	Analog	96.5	
Ge	74	H2	966,970	7.6	987432.603333333	Pulse	97.9	
Ge	74	He	335,422	0.9	339353.55	Pulse	98.8	
Ge	74	NoGas	987,649	1.3	1038900.56	Pulse	95.1	
Rh	103	He	785,915	1.3	825137.02	Pulse	95.2	
Rh	103	NoGas	1,014,986	2.0	1088224.48333333	Pulse	93.3	
Tb	159	He	1,464,624	0.6	1515319.94333333	Analog	96.7	
Tb	159	NoGas	1,907,508	1.9	1977780.97666667	Analog	96.4	
Bi	209	He	911,210	1.0	951105.013333333	Pulse	95.8	
Bi	209	NoGas	1,043,547	1.6	1103862.58666667	Pulse	94.5	

Calibration Standard Report - ICPMS5

Sample Name:	**0F03039-CAL9**	Total Dilution:	**1.0000**
File Name:	016CALS.d	Vial:	1110
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CalStd
Acq Time:	6/3/2020 11:18:25	I.S. Reference File:	007CALB.d
Comment:	**A20E080**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	CPS RSD	QC Flag
Be	9	6	NoGas	0.022	ppb	86.2	123	44.5	
Na	23	45	He	50094.194	ppb	4.8	81,306,488	0.3	
Mg	24	45	He	50073.083	ppb	5.2	45,272,328	0.7	
Al	27	45	He	50113.252	ppb	5.5	25,306,002	1.0	
K	39	45	He	50080.524	ppb	4.8	39,547,892	0.3	
Ca	44	45	H2	50346.386	ppb	3.6	14,318,990	0.9	
[Ca]	44	45	He	50420.88	ppb	6.3	2,018,417	1.9	
Ti	47	45	NoGas	2507.544	ppb	6.2	3,215,289	1.5	
V	51	74	He	0.062	ppb	32.9	2,276	3.6	
Cr	52	74	He	1011.934	ppb	3.6	5,739,539	1.3	
Mn	55	74	He	2507.819	ppb	2.8	10,824,447	0.6	
Fe	56	74	H2	50110.657	ppb	3.2	743,850,718	1.8	
Co	59	74	He	0.259	ppb	8.9	2,086	6.6	
Ni	60	74	He	1014.069	ppb	2.5	1,894,194	0.2	
Cu	65	74	He	1009.142	ppb	4.7	2,340,420	2.4	
Zn	66	74	He	2504.66	ppb	3.3	2,357,187	1.1	
As	75	74	He	0.157	ppb	28.0	139	18.3	
Se	78	74	H2	0.149	ppb	26.9	51	26.9	
Mo	95	103	He	0.114	ppb	2.7	304	3.8	
Ag	107	103	He	0.024	ppb	19.2	207	16.1	
Cd	111	103	He	7.602	ppb	5.2	9,156	1.2	
[Cd]	111	103	NoGas	7.68	ppb	4.7	15,464	1.4	
Sb	121	103	He	0.089	ppb	22.8	351	16.4	
Ba	138	159	He	2504.955	ppb	7.4	23,769,377	0.9	
W	182	159	NoGas	0.202	ppb	7.2	1,826	2.4	
Hg	201	159	NoGas	18.207	ppt	50.4	30	33.0	
Tl	205	159	He	0.009	ppb	6.7	193	8.6	
Pb	208	159	NoGas	0.183	ppb	7.0	4,844	3.2	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,117,783	3.1	1184450.92333333	Analog	94.4	
Sc	45	H2	2,902,546	2.7	2901323.77666667	Analog	100.0	
Sc	45	He	518,307	4.4	525306.603333333	Pulse	98.7	
Sc	45	NoGas	3,729,436	4.5	3897406.83333333	Analog	95.7	
Ge	74	H2	932,875	1.5	987432.603333333	Pulse	94.5	
Ge	74	He	322,712	2.3	339353.55	Pulse	95.1	
Ge	74	NoGas	942,854	2.7	1038900.56	Pulse	90.8	
Rh	103	He	738,793	4.4	825137.02	Pulse	89.5	
Rh	103	NoGas	937,123	3.8	1088224.48333333	Pulse	86.1	
Tb	159	He	1,431,389	6.4	1515319.94333333	Analog	94.5	
Tb	159	NoGas	1,828,849	4.6	1977780.97666667	Analog	92.5	
Bi	209	He	835,898	4.3	951105.013333333	Pulse	87.9	
Bi	209	NoGas	948,166	3.7	1103862.58666667	Pulse	85.9	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-ICV1**	Total Dilution:	**1.0000**
File Name:	017_ICV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	ICV
Acq Time:	6/3/2020 11:24:15	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	38.990	ppb	2.6	121,786	40	97.48	
Na	23	45	He	3800.205	ppb	1.3	6,337,836	4000	95.01	
Mg	24	45	He	4026.170	ppb	1.3	3,734,861	4000	100.65	
Al	27	45	He	3837.809	ppb	1.3	1,986,657	4000	95.95	
K	39	45	He	3912.723	ppb	1.7	3,225,996	4000	97.82	
Ca	44	45	H2	3624.792	ppb	6.0	1,130,399	4000	90.62	
[Ca]	44	45	He	3879.584	ppb	1.8	159,683	4000	96.99	
Ti	47	45	NoGas	95.807	ppb	4.2	129,744	100	95.81	
V	51	74	He	98.733	ppb	0.8	493,235	100	98.73	
Cr	52	74	He	96.304	ppb	0.9	579,651	100	96.3	
Mn	55	74	He	95.990	ppb	0.9	439,468	100	95.99	
Fe	56	74	H2	3713.652	ppb	4.8	60,735,810	4000	92.84	
Co	59	74	He	102.938	ppb	1.6	805,051	100	102.94	
Ni	60	74	He	100.606	ppb	1.0	199,518	100	100.61	
Cu	65	74	He	101.604	ppb	1.5	250,255	100	101.6	
Zn	66	74	He	95.768	ppb	1.7	95,682	100	95.77	
As	75	74	He	99.894	ppb	0.9	61,667	100	99.89	
Se	78	74	H2	38.282	ppb	4.8	13,711	40	95.7	
Mo	95	103	He	40.365	ppb	1.5	110,198	40	100.91	
Ag	107	103	He	40.382	ppb	1.1	332,051	40	100.96	
Cd	111	103	He	99.089	ppb	1.8	131,077	100	99.09	
[Cd]	111	103	NoGas	97.017	ppb	4.6	223,862	100	97.02	
Sb	121	103	He	40.321	ppb	1.6	160,357	40	100.8	
Ba	138	159	He	97.737	ppb	3.4	978,634	100	97.74	
Hg	201	159	NoGas	823.203	ppt	7.8	950	800	102.9	
Tl	205	159	He	38.620	ppb	2.7	734,711	40	96.55	
Pb	208	159	NoGas	103.734	ppb	4.0	2,742,208	100	103.73	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.2	1,205,503	1184450.92333333	101.8	
Sc	45	H2	Analog	5.2	3,181,291	2901323.77666667	109.6	
Sc	45	He	Pulse	1.1	530,417	525306.603333333	101.0	
Sc	45	NoGas	Analog	5.1	3,933,226	3897406.83333333	100.9	
Ge	74	H2	Pulse	3.3	1,027,651	987432.603333333	104.1	
Ge	74	He	Pulse	0.6	341,999	339353.55	100.8	
Ge	74	NoGas	Pulse	3.5	1,040,957	1038900.56	100.2	
Rh	103	He	Pulse	0.9	810,386	825137.02	98.2	
Rh	103	NoGas	Mix	4.7	1,074,133	1088224.48333333	98.7	
Tb	159	He	Analog	2.2	1,505,387	1515319.94333333	99.3	
Tb	159	NoGas	Analog	4.9	1,940,623	1977780.97666667	98.1	
Bi	209	He	Pulse	0.9	933,570	951105.013333333	98.2	
Bi	209	NoGas	Mix	3.6	1,078,484	1103862.58666667	97.7	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-ICB1**	Total Dilution:	**1.0000**
File Name:	018_ICB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	ICB
Acq Time:	6/3/2020 11:29:18	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.016	ppb	70.6	119	
Na	23	45	He	2.474	ppb	16.2	23,302	
Mg	24	45	He	0.671	ppb	47.5	5,379	
Al	27	45	He	1.235	ppb	16.5	1,055	
K	39	45	He	6.844	ppb	19.6	71,621	
Ca	44	45	H2	0.794	ppb	61.5	2,447	
[Ca]	44	45	He	0.629	ppb	83.0	550	
Ti	47	45	NoGas	0.102	ppb	27.5	285	
V	51	74	He	-0.045	ppb	N/A	1,905	
Cr	52	74	He	0.056	ppb	24.3	891	
Mn	55	74	He	0.065	ppb	12.8	517	
Fe	56	74	H2	0.772	ppb	17.2	69,951	
Co	59	74	He	0.016	ppb	24.2	317	
Ni	60	74	He	0.034	ppb	60.6	393	
Cu	65	74	He	0.095	ppb	18.0	650	
Zn	66	74	He	0.157	ppb	11.9	290	
As	75	74	He	0.044	ppb	22.9	79	
Se	78	74	H2	0.040	ppb	50.4	18	
Mo	95	103	He	0.023	ppb	42.8	87	
Ag	107	103	He	0.009	ppb	45.9	107	
Cd	111	103	He	0.042	ppb	18.9	59	
[Cd]	111	103	NoGas	0.040	ppb	22.4	94	
Sb	121	103	He	0.207	ppb	5.2	872	
Ba	138	159	He	0.064	ppb	20.1	1,353	
Hg	201	159	NoGas	6.482	ppt	19.2	18	
Tl	205	159	He	0.015	ppb	8.5	327	
Pb	208	159	NoGas	0.038	ppb	3.2	1,348	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	1.2	1,244,435	1184450.92333333	105.1	
Sc	45	H2	Analog	1.8	3,153,248	2901323.77666667	108.7	
Sc	45	He	Pulse	1.7	538,996	525306.603333333	102.6	
Sc	45	NoGas	Analog	2.2	4,069,426	3897406.83333333	104.4	
Ge	74	H2	Pulse	1.7	1,039,167	987432.603333333	105.2	
Ge	74	He	Pulse	1.1	347,110	339353.55	102.3	
Ge	74	NoGas	Pulse	1.6	1,060,125	1038900.56	102.0	
Rh	103	He	Pulse	2.2	827,396	825137.02	100.3	
Rh	103	NoGas	Mix	1.0	1,107,692	1088224.48333333	101.8	
Tb	159	He	Analog	2.2	1,494,021	1515319.94333333	98.6	
Tb	159	NoGas	Analog	2.2	1,979,476	1977780.97666667	100.1	
Bi	209	He	Pulse	2.0	936,089	951105.013333333	98.4	
Bi	209	NoGas	Pulse	2.7	1,092,333	1103862.58666667	99.0	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL1**	Total Dilution:	**1.0000**
File Name:	019CRL.d	Vial:	1102
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL1
Acq Time:	6/3/2020 11:34:27	I.S. Reference File:	007CALB.d
Comment:	**A20E188 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.197	ppb	6.3	690	109.44	
Na	23	45	He	8.428	ppb	5.6	33,919	93.64	
Mg	24	45	He	8.397	ppb	5.1	12,858	93.3	
Al	27	45	He	9.028	ppb	6.5	5,240	100.31	
K	39	45	He	15.148	ppb	16.1	79,740	168.31	R-11
Ca	44	45	H2	47.366	ppb	6.3	17,630	87.71	
[Ca]	44	45	He	49.356	ppb	7.1	2,622	91.4	
Ti	47	45	NoGas	0.229	ppb	22.3	456	127.22	
V	51	74	He	0.151	ppb	2.9	2,931	83.89	
Cr	52	74	He	0.207	ppb	4.8	1,835	115	
Mn	55	74	He	0.203	ppb	6.4	1,171	112.78	
Fe	56	74	H2	6.891	ppb	7.5	176,099	76.57	
Co	59	74	He	0.199	ppb	4.5	1,792	110.56	
Ni	60	74	He	0.127	ppb	17.8	589	70.56	
Cu	65	74	He	0.161	ppb	9.3	824	89.44	
Zn	66	74	He	0.154	ppb	18.5	290	85.56	
As	75	74	He	0.172	ppb	12.4	162	95.56	
Se	78	74	H2	0.208	ppb	9.6	81	115.56	
Mo	95	103	He	0.189	ppb	1.3	557	105	
Ag	107	103	He	0.172	ppb	5.8	1,497	95.56	
Cd	111	103	He	0.201	ppb	1.4	276	111.67	
[Cd]	111	103	NoGas	0.185	ppb	1.4	435	102.78	
Sb	121	103	He	0.244	ppb	9.6	1,035	135.56	R-11
Ba	138	159	He	0.148	ppb	13.3	2,170	82.22	
Hg	201	159	NoGas	12.450	ppt	31.3	25	172.92	R-11
Tl	205	159	He	0.190	ppb	3.0	3,616	105.56	
Pb	208	159	NoGas	0.203	ppb	3.0	5,791	112.78	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.4	1,222,447	1184450.92333333	103.2	
Sc	45	H2	Analog	5.3	3,305,658	2901323.77666667	113.9	
Sc	45	He	Pulse	2.9	548,101	525306.603333333	104.3	
Sc	45	NoGas	Analog	2.3	4,012,973	3897406.83333333	103.0	
Ge	74	H2	Pulse	3.7	1,070,318	987432.603333333	108.4	
Ge	74	He	Pulse	1.8	351,445	339353.55	103.6	
Ge	74	NoGas	Pulse	1.7	1,063,876	1038900.56	102.4	
Rh	103	He	Pulse	2.4	836,610	825137.02	101.4	
Rh	103	NoGas	Pulse	1.7	1,094,958	1088224.48333333	100.6	
Tb	159	He	Analog	3.9	1,491,348	1515319.94333333	98.4	
Tb	159	NoGas	Analog	2.0	1,977,087	1977780.97666667	100.0	
Bi	209	He	Pulse	2.4	936,804	951105.013333333	98.5	
Bi	209	NoGas	Pulse	3.2	1,085,176	1103862.58666667	98.3	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL2**	Total Dilution:	**1.0000**
File Name:	020_CRL.d	Vial:	1103
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL2
Acq Time:	6/3/2020 11:39:36	I.S. Reference File:	007CALB.d
Comment:	**A20E189 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.954	ppb	7.3	3,161	106	
Na	23	45	He	41.365	ppb	4.6	92,658	91.92	
Mg	24	45	He	42.791	ppb	3.3	46,878	95.09	
Al	27	45	He	43.035	ppb	5.7	23,973	95.63	
K	39	45	He	49.306	ppb	8.0	110,853	109.57	
Ca	44	45	H2	245.307	ppb	7.2	81,002	90.85	
[Ca]	44	45	He	254.496	ppb	1.9	11,597	94.26	
Ti	47	45	NoGas	0.827	ppb	15.1	1,336	91.89	
V	51	74	He	0.907	ppb	5.6	6,913	100.78	
Cr	52	74	He	0.908	ppb	3.9	6,271	100.89	
Mn	55	74	He	0.867	ppb	8.5	4,364	96.33	
Fe	56	74	H2	39.061	ppb	6.1	727,317	86.8	
Co	59	74	He	0.923	ppb	2.3	7,747	102.56	
Ni	60	74	He	0.796	ppb	1.8	1,985	88.44	
Cu	65	74	He	0.905	ppb	2.2	2,750	100.56	
Zn	66	74	He	0.881	ppb	5.9	1,054	97.89	
As	75	74	He	0.913	ppb	4.8	642	101.44	
Se	78	74	H2	0.881	ppb	6.2	334	97.89	
Mo	95	103	He	0.888	ppb	1.0	2,569	98.67	
Ag	107	103	He	0.904	ppb	1.1	7,841	100.44	
Cd	111	103	He	0.904	ppb	3.0	1,256	100.44	
[Cd]	111	103	NoGas	0.856	ppb	6.0	2,093	95.11	
Sb	121	103	He	0.940	ppb	4.9	3,957	104.44	
Ba	138	159	He	0.831	ppb	4.7	9,213	92.33	
Hg	201	159	NoGas	34.404	ppt	6.3	53	95.57	
Tl	205	159	He	0.865	ppb	4.7	16,816	96.11	
Pb	208	159	NoGas	0.914	ppb	5.2	25,833	101.56	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	5.9	1,255,046	1184450.92333333	106.0	
Sc	45	H2	Analog	6.4	3,282,900	2901323.77666667	113.2	
Sc	45	He	Pulse	3.2	561,394	525306.603333333	106.9	
Sc	45	NoGas	Analog	3.0	4,184,673	3897406.83333333	107.4	
Ge	74	H2	Pulse	5.1	1,076,791	987432.603333333	109.0	
Ge	74	He	Pulse	1.6	357,573	339353.55	105.4	
Ge	74	NoGas	Pulse	2.7	1,093,974	1038900.56	105.3	
Rh	103	He	Pulse	2.1	850,573	825137.02	103.1	
Rh	103	NoGas	Mix	4.2	1,139,117	1088224.48333333	104.7	
Tb	159	He	Analog	4.0	1,536,389	1515319.94333333	101.4	
Tb	159	NoGas	Analog	3.9	2,049,089	1977780.97666667	103.6	
Bi	209	He	Pulse	2.5	949,441	951105.013333333	99.8	
Bi	209	NoGas	Pulse	3.6	1,119,109	1103862.58666667	101.4	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL3**	Total Dilution:	**1.0000**
File Name:	021CRL_.d	Vial:	1104
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL3
Acq Time:	6/3/2020 11:44:44	I.S. Reference File:	007CALB.d
Comment:	**A20E190 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	1.814	ppb	0.8	5,824	100.78	
Na	23	45	He	83.460	ppb	2.1	167,201	92.73	
Mg	24	45	He	85.024	ppb	2.0	88,525	94.47	
Al	27	45	He	85.792	ppb	2.7	47,526	95.32	
K	39	45	He	90.416	ppb	3.4	146,412	100.46	
Ca	44	45	H2	502.569	ppb	6.2	159,339	93.07	
[Ca]	44	45	He	496.682	ppb	2.6	22,165	91.98	
Ti	47	45	NoGas	1.715	ppb	6.7	2,562	95.28	
V	51	74	He	1.772	ppb	3.7	11,464	98.44	
Cr	52	74	He	1.711	ppb	0.8	11,376	95.06	
Mn	55	74	He	1.685	ppb	1.9	8,319	93.61	
Fe	56	74	H2	82.102	ppb	8.4	1,474,797	91.22	
Co	59	74	He	1.823	ppb	3.5	15,169	101.28	
Ni	60	74	He	1.723	ppb	6.3	3,918	95.72	
Cu	65	74	He	1.850	ppb	2.7	5,202	102.78	
Zn	66	74	He	1.733	ppb	1.9	1,951	96.28	
As	75	74	He	1.811	ppb	2.6	1,227	100.61	
Se	78	74	H2	1.775	ppb	3.6	678	98.61	
Mo	95	103	He	1.806	ppb	3.2	5,230	100.33	
Ag	107	103	He	1.757	ppb	1.1	15,295	97.61	
Cd	111	103	He	1.781	ppb	3.0	2,490	98.94	
[Cd]	111	103	NoGas	1.731	ppb	2.1	4,166	96.17	
Sb	121	103	He	1.737	ppb	3.5	7,330	96.5	
Ba	138	159	He	1.698	ppb	3.7	18,263	94.33	
Hg	201	159	NoGas	76.453	ppt	4.8	100	106.18	
Tl	205	159	He	1.675	ppb	4.0	32,878	93.06	
Pb	208	159	NoGas	1.833	ppb	1.7	49,796	101.83	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	1.0	1,225,115	1184450.92333333	103.4	
Sc	45	H2	Analog	6.2	3,196,914	2901323.77666667	110.2	
Sc	45	He	Pulse	1.7	562,789	525306.603333333	107.1	
Sc	45	NoGas	Analog	1.7	4,095,979	3897406.83333333	105.1	
Ge	74	H2	Mix	8.0	1,087,588	987432.603333333	110.1	
Ge	74	He	Pulse	1.1	359,122	339353.55	105.8	
Ge	74	NoGas	Pulse	1.7	1,082,114	1038900.56	104.2	
Rh	103	He	Pulse	1.2	855,879	825137.02	103.7	
Rh	103	NoGas	Pulse	1.5	1,119,102	1088224.48333333	102.8	
Tb	159	He	Analog	2.3	1,552,410	1515319.94333333	102.4	
Tb	159	NoGas	Analog	2.8	1,980,327	1977780.97666667	100.1	
Bi	209	He	Pulse	1.4	954,944	951105.013333333	100.4	
Bi	209	NoGas	Pulse	2.5	1,102,582	1103862.58666667	99.9	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL4**	Total Dilution:	**1.0000**
File Name:	022CRL4.d	Vial:	1105
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL4
Acq Time:	6/3/2020 11:49:50	I.S. Reference File:	007CALB.d
Comment:	**A20E191 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	3.671	ppb	6.4	11,792	101.97	
Na	23	45	He	165.322	ppb	4.0	317,261	91.85	
Mg	24	45	He	170.020	ppb	4.3	175,171	94.46	
Al	27	45	He	171.042	ppb	4.9	96,024	95.02	
K	39	45	He	176.902	ppb	5.4	224,539	98.28	
Ca	44	45	H2	996.919	ppb	3.8	317,993	92.31	
[Ca]	44	45	He	1013.899	ppb	4.5	45,482	93.88	
Ti	47	45	NoGas	3.419	ppb	6.1	4,987	94.97	
V	51	74	He	3.586	ppb	2.7	21,104	99.61	
Cr	52	74	He	3.514	ppb	3.7	22,935	97.61	
Mn	55	74	He	3.335	ppb	1.2	16,376	92.64	
Fe	56	74	H2	168.120	ppb	2.0	2,903,338	93.4	
Co	59	74	He	3.685	ppb	1.7	30,697	102.36	
Ni	60	74	He	3.387	ppb	1.3	7,438	94.08	
Cu	65	74	He	3.703	ppb	5.8	10,063	102.86	
Zn	66	74	He	3.638	ppb	2.7	3,978	101.06	
As	75	74	He	3.510	ppb	2.3	2,346	97.5	
Se	78	74	H2	3.578	ppb	4.6	1,330	99.39	
Mo	95	103	He	3.465	ppb	2.1	10,087	96.25	
Ag	107	103	He	3.571	ppb	3.8	31,258	99.19	
Cd	111	103	He	3.539	ppb	2.9	4,982	98.31	
[Cd]	111	103	NoGas	3.631	ppb	1.1	8,685	100.86	
Sb	121	103	He	3.547	ppb	4.6	15,034	98.53	
Ba	138	159	He	3.526	ppb	2.8	36,966	97.94	
Hg	201	159	NoGas	138.003	ppt	2.7	172	95.84	
Tl	205	159	He	3.391	ppb	3.0	66,275	94.19	
Pb	208	159	NoGas	3.733	ppb	2.4	100,947	103.69	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	3.4	1,234,581	1184450.92333333	104.2	
Sc	45	H2	Analog	3.3	3,233,285	2901323.77666667	111.4	
Sc	45	He	Pulse	3.3	573,333	525306.603333333	109.1	
Sc	45	NoGas	Analog	2.5	4,114,537	3897406.83333333	105.6	
Ge	74	H2	Pulse	1.6	1,063,392	987432.603333333	107.7	
Ge	74	He	Pulse	1.7	362,026	339353.55	106.7	
Ge	74	NoGas	Pulse	1.1	1,083,055	1038900.56	104.3	
Rh	103	He	Pulse	3.2	862,473	825137.02	104.5	
Rh	103	NoGas	Pulse	2.0	1,112,182	1088224.48333333	102.2	
Tb	159	He	Analog	2.5	1,546,011	1515319.94333333	102.0	
Tb	159	NoGas	Analog	1.9	1,977,328	1977780.97666667	100.0	
Bi	209	He	Pulse	2.4	970,750	951105.013333333	102.1	
Bi	209	NoGas	Pulse	0.9	1,108,884	1103862.58666667	100.5	

Quantitation Report ICPMS5

File Name	023ICSA.d		
File Path	C:\Agilent\ICPMH\1\DATA\0F03039.b		
Acq Time	6/3/2020 11:54:59	Sample Type	
Sample Name	**0F03039-IFA1**	ICSA	
Comment	**A20F002**	Last Calib	06/03/2020 11:20:48
Prep Dilution	1.0000	Vial:	1111
Total Dilution	**1.0000**	Operator Name	ICPMS Analyst

FullQuant Table

Element	Mass	ISTD	Tune Mode	Raw Conc	Corrected Conc.	Units	RSD(%)	ExpectedValue	QC Flag
Be	9	6	NoGas	0.018	0.018	ppb	38.7		
Na	23	45	He	247341.201	247341.201	ppb	0.1		
Mg	24	45	He	99057.49	99057.490	ppb	0.3	100000	
Al	27	45	He	99465.507	99465.507	ppb	0.1	100000	
K	39	45	He	97367.577	97367.577	ppb	0.6	100000	
Ca	44	45	H2	279897.037	279897.037	ppb	3.3		
[Ca]	44	45	He	292227.415	292227.415	ppb	0.5		
Ti	47	45	NoGas	2052.406	2052.406	ppb	2.0		
V	51	74	He	0.211	0.211	ppb	14.6	2	
Cr	52	74	He	1.32	1.320	ppb	3.7	2	
Mn	55	74	He	3.446	3.446	ppb	1.9	2	> CRI
Fe	56	74	H2	238197.707	238197.707	ppb	3.0		
Co	59	74	He	0.752	0.752	ppb	1.5		
Ni	60	74	He	0.419	0.419	ppb	9.6	2	
Cu	65	74	He	0.661	0.661	ppb	10.6	2	
Zn	66	74	He	1.111	1.111	ppb	10.9	4	
As	75	74	He	0.206	0.206	ppb	21.2	0.9	
Se	78	74	H2	0.1	0.100	ppb	11.8	0.9	
Mo	95	103	He	2299.292	2299.292	ppb	0.3	2000	
Ag	107	103	He	0.038	0.038	ppb	20.9		
Cd	111	103	He	6.343	6.343	ppb	0.5		
[Cd]	111	103	NoGas	0.416	0.416	ppb	40.0		
Sb	121	103	He	0.172	0.172	ppb	7.6	0.9	
Ba	138	159	He	0.443	0.443	ppb	6.1	2	> CRI
W	182	159	NoGas	99.243	99.243	ppb	2.4		
Hg	201	159	NoGas	83.072	83.072	ppt	16.4		
Tl	205	159	He	0.006	0.006	ppb	40.7	0.9	
Pb	208	159	NoGas	0.187	0.187	ppb	3.0		

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD Recovery %	QC Flag
Li	6	NoGas	979,256	3.8	1184450.92333333	Analog	82.7	
Sc	45	H2	2,652,886	2.5	2901323.77666667	Analog	91.4	
Sc	45	He	442,281	0.5	525306.603333333	Pulse	84.2	
Sc	45	NoGas	3,102,675	1.5	3897406.83333333	Analog	79.6	
Ge	74	H2	805,510	1.9	987432.603333333	Pulse	81.6	
Ge	74	He	270,841	1.0	339353.55	Pulse	79.8	
Ge	74	NoGas	773,680	1.5	1038900.56	Pulse	74.5	
Rh	103	He	590,741	0.5	825137.02	Pulse	71.6	
Rh	103	NoGas	759,944	2.0	1088224.48333333	Pulse	69.8	IS Q-06
Tb	159	He	1,188,617	1.9	1515319.94333333	Mix	78.4	
Tb	159	NoGas	1,566,589	2.6	1977780.97666667	Analog	79.2	
Bi	209	He	687,080	0.7	951105.013333333	Pulse	72.2	
Bi	209	NoGas	799,037	2.3	1103862.58666667	Pulse	72.4	

Quantitation Report ICPMS5

File Name	024ICSB.d		
File Path	C:\Agilent\ICPMH\1\DATA\0F03039.b		
Acq Time	6/3/2020 11:59:59	Sample Type	
Sample Name	**0F03039-IFB1**	ICSB	
Comment	**A20F003**	Last Calib	06/03/2020 11:20:48
Prep Dilution	1.0000	Vial:	1112
Total Dilution	**1.0000**	Operator Name	ICPMS Analyst

FullQuant Table

Element	Mass	ISTD	Tune Mode	Raw Conc	Corrected Conc.	Units	RSD(%)	ExpectedValue	QC Flag
Be	9	6	NoGas	0.014	0.014	ppb	39.0		
Na	23	45	He	243209.45	243209.450	ppb	0.9		
Mg	24	45	He	97630.849	97630.849	ppb	1.0	100000	
Al	27	45	He	98453.456	98453.456	ppb	1.2	100000	
K	39	45	He	95269.934	95269.934	ppb	0.2	100000	
Ca	44	45	H2	267180.813	267180.813	ppb	2.8		
[Ca]	44	45	He	289931.327	289931.327	ppb	0.5		
Ti	47	45	NoGas	2022.005	2022.005	ppb	5.9		
V	51	74	He	207.523	207.523	ppb	1.9	200	
Cr	52	74	He	191.708	191.708	ppb	2.1	200	
Mn	55	74	He	196.488	196.488	ppb	1.8	200	
Fe	56	74	H2	230977.199	230977.199	ppb	1.8		
Co	59	74	He	195.952	195.952	ppb	1.6		
Ni	60	74	He	184.297	184.297	ppb	1.4	200	
Cu	65	74	He	184.354	184.354	ppb	1.0	200	
Zn	66	74	He	89.743	89.743	ppb	1.5	100	
As	75	74	He	100.748	100.748	ppb	1.8	100	
Se	78	74	H2	95.653	95.653	ppb	1.8	100	
Mo	95	103	He	2250.333	2250.333	ppb	1.4	2000	
Ag	107	103	He	48.806	48.806	ppb	1.2	50	
Cd	111	103	He	106.669	106.669	ppb	1.3		
[Cd]	111	103	NoGas	97.673	97.673	ppb	5.8		
Sb	121	103	He	0.179	0.179	ppb	10.7	0.9	
Ba	138	159	He	1.218	1.218	ppb	2.9	2	> +/- 10%
W	182	159	NoGas	97.767	97.767	ppb	5.1		
Hg	201	159	NoGas	2060.005	2060.005	ppt	5.2		
Tl	205	159	He	0.003	0.003	ppb	64.3	0.9	
Pb	208	159	NoGas	0.182	0.182	ppb	5.7		

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD Recovery %	QC Flag
Li	6	NoGas	969,732	5.1	1184450.92333333	Analog	81.9	
Sc	45	H2	2,564,645	2.3	2901323.77666667	Analog	88.4	
Sc	45	He	424,009	0.5	525306.603333333	Pulse	80.7	
Sc	45	NoGas	2,985,279	5.1	3897406.83333333	Analog	76.6	
Ge	74	H2	776,951	1.3	987432.603333333	Pulse	78.7	
Ge	74	He	261,448	1.5	339353.55	Pulse	77.0	
Ge	74	NoGas	762,165	3.8	1038900.56	Pulse	73.4	
Rh	103	He	580,589	1.4	825137.02	Pulse	70.4	
Rh	103	NoGas	747,840	5.3	1088224.48333333	Pulse	68.7	IS Q-06
Tb	159	He	1,169,193	1.3	1515319.94333333	Pulse	77.2	
Tb	159	NoGas	1,543,647	4.6	1977780.97666667	Analog	78.0	
Bi	209	He	682,457	0.7	951105.013333333	Pulse	71.8	
Bi	209	NoGas	786,122	5.1	1103862.58666667	Pulse	71.2	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV1**	Total Dilution:	**1.0000**
File Name:	036_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 13:01:18	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	38.535	ppb	2.3	100,432	40	96.34	
Na	23	45	He	3845.230	ppb	2.5	4,806,104	4000	96.13	
Mg	24	45	He	4111.179	ppb	4.2	2,857,240	4000	102.78	
Al	27	45	He	3937.153	ppb	2.5	1,527,420	4000	98.43	
K	39	45	He	3967.178	ppb	1.8	2,451,216	4000	99.18	
Ca	44	45	H2	3840.546	ppb	2.4	863,283	4000	96.01	
[Ca]	44	45	He	3933.789	ppb	2.4	121,351	4000	98.34	
Ti	47	45	NoGas	93.621	ppb	4.4	102,002	100	93.62	
V	51	74	He	95.198	ppb	1.6	368,952	100	95.2	
Cr	52	74	He	92.992	ppb	1.7	434,173	100	92.99	
Mn	55	74	He	94.919	ppb	2.1	337,084	100	94.92	
Fe	56	74	H2	3815.461	ppb	1.8	46,746,017	4000	95.39	
Co	59	74	He	100.669	ppb	2.1	610,676	100	100.67	
Ni	60	74	He	97.933	ppb	1.7	150,656	100	97.93	
Cu	65	74	He	99.793	ppb	2.0	190,661	100	99.79	
Zn	66	74	He	97.120	ppb	1.8	75,269	100	97.12	
As	75	74	He	98.242	ppb	2.7	47,037	100	98.24	
Se	78	74	H2	40.602	ppb	2.1	10,894	40	101.5	
Mo	95	103	He	40.741	ppb	2.4	87,827	40	101.85	
Ag	107	103	He	40.884	ppb	2.0	265,464	40	102.21	
Cd	111	103	He	102.269	ppb	1.6	106,835	100	102.27	
[Cd]	111	103	NoGas	100.355	ppb	3.6	188,073	100	100.35	
Sb	121	103	He	42.056	ppb	2.3	132,074	40	105.14	
Ba	138	159	He	95.942	ppb	2.6	803,461	100	95.94	
Hg	201	159	NoGas	816.910	ppt	6.7	851	800	102.11	
Tl	205	159	He	40.857	ppb	2.3	650,049	40	102.14	
Pb	208	159	NoGas	102.552	ppb	5.8	2,442,424	100	102.55	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.6	1,005,848	1184450.92333333	84.9	
Sc	45	H2	Analog	2.1	2,289,325	2901323.77666667	78.9	
Sc	45	He	Pulse	2.7	397,660	525306.603333333	75.7	
Sc	45	NoGas	Analog	3.8	3,163,257	3897406.83333333	81.2	
Ge	74	H2	Pulse	1.8	769,238	987432.603333333	77.9	
Ge	74	He	Pulse	1.8	265,324	339353.55	78.2	
Ge	74	NoGas	Pulse	1.8	840,656	1038900.56	80.9	
Rh	103	He	Pulse	2.0	640,036	825137.02	77.6	
Rh	103	NoGas	Pulse	3.3	871,819	1088224.48333333	80.1	
Tb	159	He	Mix	3.2	1,259,093	1515319.94333333	83.1	
Tb	159	NoGas	Analog	4.9	1,749,369	1977780.97666667	88.5	
Bi	209	He	Pulse	2.0	818,735	951105.013333333	86.1	
Bi	209	NoGas	Pulse	4.1	967,907	1103862.58666667	87.7	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB1**	Total Dilution:	**1.0000**
File Name:	037_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 13:06:25	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.020	ppb	15.4	108	
Na	23	45	He	3.921	ppb	4.5	19,830	
Mg	24	45	He	0.663	ppb	57.8	4,136	
Al	27	45	He	0.754	ppb	20.0	618	
K	39	45	He	2.864	ppb	37.0	52,640	
Ca	44	45	H2	0.075	ppb	937.5	1,729	
[Ca]	44	45	He	-0.023	ppb	N/A	402	
Ti	47	45	NoGas	0.013	ppb	212.5	132	
V	51	74	He	-0.134	ppb	N/A	1,151	
Cr	52	74	He	0.004	ppb	22.5	453	
Mn	55	74	He	0.035	ppb	15.7	297	
Fe	56	74	H2	2.170	ppb	10.6	73,397	
Co	59	74	He	0.001	ppb	759.1	158	
Ni	60	74	He	-0.019	ppb	N/A	228	
Cu	65	74	He	0.052	ppb	66.7	427	
Zn	66	74	He	0.058	ppb	40.6	150	
As	75	74	He	0.009	ppb	73.2	46	
Se	78	74	H2	0.028	ppb	33.6	11	
Mo	95	103	He	0.031	ppb	39.5	90	
Ag	107	103	He	0.007	ppb	22.4	79	
Cd	111	103	He	0.025	ppb	29.6	29	
[Cd]	111	103	NoGas	0.018	ppb	35.6	34	
Sb	121	103	He	0.190	ppb	7.4	653	
Ba	138	159	He	0.022	ppb	77.7	810	
Hg	201	159	NoGas	4.493	ppt	118.9	15	
Tl	205	159	He	0.014	ppb	30.4	269	
Pb	208	159	NoGas	0.025	ppb	5.8	903	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	4.6	1,018,654	1184450.92333333	86.0	
Sc	45	H2	Analog	7.3	2,460,375	2901323.77666667	84.8	
Sc	45	He	Pulse	1.4	415,060	525306.603333333	79.0	
Sc	45	NoGas	Analog	3.2	3,309,822	3897406.83333333	84.9	
Ge	74	H2	Pulse	3.9	820,110	987432.603333333	83.1	
Ge	74	He	Pulse	0.9	274,226	339353.55	80.8	
Ge	74	NoGas	Pulse	1.8	867,872	1038900.56	83.5	
Rh	103	He	Pulse	1.1	671,884	825137.02	81.4	
Rh	103	NoGas	Pulse	2.1	923,220	1088224.48333333	84.8	
Tb	159	He	Mix	1.9	1,308,868	1515319.94333333	86.4	
Tb	159	NoGas	Analog	3.2	1,821,236	1977780.97666667	92.1	
Bi	209	He	Pulse	1.3	840,624	951105.013333333	88.4	
Bi	209	NoGas	Pulse	2.8	995,180	1103862.58666667	90.2	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV2**	Total Dilution:	**1.0000**
File Name:	046_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 13:52:14	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	39.429	ppb	2.3	120,525	40	98.57	
Na	23	45	He	3701.698	ppb	2.4	6,116,259	4000	92.54	
Mg	24	45	He	3949.813	ppb	2.4	3,629,854	4000	98.75	
Al	27	45	He	3849.125	ppb	2.3	1,973,891	4000	96.23	
K	39	45	He	3969.817	ppb	2.7	3,241,518	4000	99.25	
Ca	44	45	H2	3734.443	ppb	3.2	1,114,576	4000	93.36	
[Ca]	44	45	He	3918.481	ppb	1.8	159,783	4000	97.96	
Ti	47	45	NoGas	96.862	ppb	4.9	130,916	100	96.86	
V	51	74	He	98.244	ppb	1.2	490,174	100	98.24	
Cr	52	74	He	95.517	ppb	0.6	574,205	100	95.52	
Mn	55	74	He	95.451	ppb	0.6	436,450	100	95.45	
Fe	56	74	H2	3814.863	ppb	1.3	60,333,565	4000	95.37	
Co	59	74	He	102.237	ppb	0.8	798,576	100	102.24	
Ni	60	74	He	100.606	ppb	0.8	199,263	100	100.61	
Cu	65	74	He	101.825	ppb	1.0	250,487	100	101.83	
Zn	66	74	He	94.878	ppb	0.8	94,678	100	94.88	
As	75	74	He	99.633	ppb	0.3	61,431	100	99.63	
Se	78	74	H2	39.248	ppb	0.3	13,596	40	98.12	
Mo	95	103	He	40.561	ppb	1.2	109,608	40	101.4	
Ag	107	103	He	39.944	ppb	0.6	325,107	40	99.86	
Cd	111	103	He	98.080	ppb	1.6	128,421	100	98.08	
[Cd]	111	103	NoGas	97.335	ppb	4.9	223,344	100	97.34	
Sb	121	103	He	40.704	ppb	0.6	160,234	40	101.76	
Ba	138	159	He	97.873	ppb	0.4	969,954	100	97.87	
Hg	201	159	NoGas	798.363	ppt	9.4	929	800	99.8	
Tl	205	159	He	38.021	ppb	0.4	715,831	40	95.05	
Pb	208	159	NoGas	102.191	ppb	5.3	2,721,185	100	102.19	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.2	1,179,710	1184450.92333333	99.6	
Sc	45	H2	Analog	2.7	3,040,308	2901323.77666667	104.8	
Sc	45	He	Pulse	1.3	525,517	525306.603333333	100.0	
Sc	45	NoGas	Analog	3.8	3,924,462	3897406.83333333	100.7	
Ge	74	H2	Pulse	1.3	992,867	987432.603333333	100.6	
Ge	74	He	Pulse	0.7	341,573	339353.55	100.7	
Ge	74	NoGas	Pulse	2.5	1,035,128	1038900.56	99.6	
Rh	103	He	Pulse	0.9	802,104	825137.02	97.2	
Rh	103	NoGas	Pulse	3.5	1,067,791	1088224.48333333	98.1	
Tb	159	He	Analog	0.5	1,489,230	1515319.94333333	98.3	
Tb	159	NoGas	Analog	3.9	1,954,934	1977780.97666667	98.8	
Bi	209	He	Pulse	0.7	912,896	951105.013333333	96.0	
Bi	209	NoGas	Pulse	2.9	1,052,204	1103862.58666667	95.3	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB2**	Total Dilution:	**1.0000**
File Name:	047_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 13:57:18	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.019	ppb	61.3	126	
Na	23	45	He	-0.738	ppb	N/A	17,989	
Mg	24	45	He	1.324	ppb	25.4	6,026	
Al	27	45	He	1.044	ppb	7.4	960	
K	39	45	He	2.547	ppb	103.0	68,495	
Ca	44	45	H2	-0.564	ppb	N/A	1,957	
[Ca]	44	45	He	-2.111	ppb	N/A	439	
Ti	47	45	NoGas	0.082	ppb	45.0	262	
V	51	74	He	-0.004	ppb	N/A	2,121	
Cr	52	74	He	0.027	ppb	19.3	717	
Mn	55	74	He	0.046	ppb	10.7	429	
Fe	56	74	H2	2.359	ppb	5.3	92,847	
Co	59	74	He	0.009	ppb	50.9	264	
Ni	60	74	He	0.010	ppb	48.9	348	
Cu	65	74	He	0.060	ppb	39.5	563	
Zn	66	74	He	0.184	ppb	23.9	318	
As	75	74	He	0.044	ppb	29.3	80	
Se	78	74	H2	0.035	ppb	29.1	15	
Mo	95	103	He	0.022	ppb	42.0	86	
Ag	107	103	He	0.005	ppb	55.8	74	
Cd	111	103	He	0.023	ppb	17.6	33	
[Cd]	111	103	NoGas	0.018	ppb	15.9	43	
Sb	121	103	He	0.128	ppb	5.9	553	
Ba	138	159	He	0.022	ppb	28.8	944	
Hg	201	159	NoGas	7.218	ppt	41.7	19	
Tl	205	159	He	0.012	ppb	4.4	267	
Pb	208	159	NoGas	0.026	ppb	14.6	1,016	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	3.8	1,223,553	1184450.92333333	103.3	
Sc	45	H2	Analog	3.4	3,044,801	2901323.77666667	104.9	
Sc	45	He	Pulse	2.2	542,327	525306.603333333	103.2	
Sc	45	NoGas	Analog	4.0	4,103,428	3897406.83333333	105.3	
Ge	74	H2	Pulse	2.1	1,002,878	987432.603333333	101.6	
Ge	74	He	Pulse	0.7	348,061	339353.55	102.6	
Ge	74	NoGas	Mix	3.0	1,096,732	1038900.56	105.6	
Rh	103	He	Pulse	1.1	826,369	825137.02	100.1	
Rh	103	NoGas	Mix	2.2	1,130,620	1088224.48333333	103.9	
Tb	159	He	Analog	1.9	1,517,940	1515319.94333333	100.2	
Tb	159	NoGas	Analog	2.1	1,977,769	1977780.97666667	100.0	
Bi	209	He	Pulse	1.5	909,920	951105.013333333	95.7	
Bi	209	NoGas	Pulse	3.1	1,051,632	1103862.58666667	95.3	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL5**	Total Dilution:	**1.0000**
File Name:	048CRL.d	Vial:	1102
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL1
Acq Time:	6/3/2020 14:02:27	I.S. Reference File:	007CALB.d
Comment:	**A20E188 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.206	ppb	4.8	727	114.44	
Na	23	45	He	7.887	ppb	7.1	33,538	87.63	
Mg	24	45	He	9.257	ppb	6.1	13,910	102.86	
Al	27	45	He	8.976	ppb	4.0	5,296	99.73	
K	39	45	He	17.643	ppb	11.4	83,197	196.03	R-11
Ca	44	45	H2	50.946	ppb	1.7	17,979	94.34	
[Ca]	44	45	He	52.648	ppb	5.6	2,809	97.5	
Ti	47	45	NoGas	0.246	ppb	19.5	505	136.67	R-11
V	51	74	He	0.209	ppb	4.3	3,277	116.11	
Cr	52	74	He	0.497	ppb	6.0	3,684	276.11	R-11
Mn	55	74	He	0.216	ppb	6.4	1,252	120	
Fe	56	74	H2	10.380	ppb	2.5	227,971	115.33	
Co	59	74	He	0.188	ppb	4.9	1,732	104.44	
Ni	60	74	He	0.357	ppb	10.6	1,072	198.33	R-11
Cu	65	74	He	0.176	ppb	24.3	874	97.78	
Zn	66	74	He	0.391	ppb	13.9	541	217.22	R-11
As	75	74	He	0.192	ppb	6.9	177	106.67	
Se	78	74	H2	0.207	ppb	18.2	78	115	
Mo	95	103	He	0.187	ppb	7.5	551	103.89	
Ag	107	103	He	0.181	ppb	7.5	1,571	100.56	
Cd	111	103	He	0.184	ppb	5.3	254	102.22	
[Cd]	111	103	NoGas	0.165	ppb	13.9	407	91.67	
Sb	121	103	He	0.227	ppb	4.1	968	126.11	
Ba	138	159	He	0.145	ppb	2.2	2,266	80.56	
Hg	201	159	NoGas	10.095	ppt	26.5	23	140.21	R-11
Tl	205	159	He	0.167	ppb	3.0	3,348	92.78	
Pb	208	159	NoGas	0.188	ppb	2.6	5,506	104.44	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	4.8	1,235,057	1184450.92333333	104.3	
Sc	45	H2	Analog	3.0	3,158,986	2901323.77666667	108.9	
Sc	45	He	Pulse	2.2	557,194	525306.603333333	106.1	
Sc	45	NoGas	Analog	1.7	4,214,992	3897406.83333333	108.1	
Ge	74	H2	Pulse	1.5	1,035,240	987432.603333333	104.8	
Ge	74	He	Pulse	1.1	356,542	339353.55	105.1	
Ge	74	NoGas	Pulse	0.8	1,092,076	1038900.56	105.1	
Rh	103	He	Pulse	1.9	838,438	825137.02	101.6	
Rh	103	NoGas	Mix	2.0	1,152,393	1088224.48333333	105.9	
Tb	159	He	Analog	2.4	1,571,357	1515319.94333333	103.7	
Tb	159	NoGas	Analog	1.5	2,019,951	1977780.97666667	102.1	
Bi	209	He	Pulse	1.4	913,500	951105.013333333	96.0	
Bi	209	NoGas	Pulse	1.7	1,065,521	1103862.58666667	96.5	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL6**	Total Dilution:	**1.0000**
File Name:	049_CRL.d	Vial:	1103
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL2
Acq Time:	6/3/2020 14:07:34	I.S. Reference File:	007CALB.d
Comment:	**A20E189 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.928	ppb	9.3	2,983	103.11	
Na	23	45	He	40.494	ppb	3.1	90,222	89.99	
Mg	24	45	He	44.236	ppb	3.7	47,807	98.3	
Al	27	45	He	43.637	ppb	3.0	24,065	96.97	
K	39	45	He	50.131	ppb	4.5	110,446	111.4	
Ca	44	45	H2	253.705	ppb	1.6	80,884	93.96	
[Ca]	44	45	He	259.216	ppb	1.5	11,678	96.01	
Ti	47	45	NoGas	0.945	ppb	13.1	1,486	105	
V	51	74	He	0.964	ppb	3.7	7,158	107.11	
Cr	52	74	He	0.917	ppb	5.0	6,282	101.89	
Mn	55	74	He	0.911	ppb	5.6	4,543	101.22	
Fe	56	74	H2	42.355	ppb	0.2	754,444	94.12	
Co	59	74	He	0.934	ppb	1.5	7,777	103.78	
Ni	60	74	He	0.987	ppb	6.4	2,360	109.67	
Cu	65	74	He	0.912	ppb	3.0	2,748	101.33	
Zn	66	74	He	1.113	ppb	7.5	1,286	123.67	
As	75	74	He	0.974	ppb	11.4	676	108.22	
Se	78	74	H2	0.918	ppb	7.0	335	102	
Mo	95	103	He	0.916	ppb	4.6	2,585	101.78	
Ag	107	103	He	0.921	ppb	3.0	7,801	102.33	
Cd	111	103	He	0.930	ppb	3.4	1,263	103.33	
[Cd]	111	103	NoGas	0.940	ppb	5.3	2,263	104.44	
Sb	121	103	He	0.911	ppb	3.9	3,746	101.22	
Ba	138	159	He	0.855	ppb	4.9	9,401	95	
Hg	201	159	NoGas	33.834	ppt	16.3	51	93.98	
Tl	205	159	He	0.851	ppb	2.3	16,440	94.56	
Pb	208	159	NoGas	0.899	ppb	5.7	24,870	99.89	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	3.1	1,215,283	1184450.92333333	102.6	
Sc	45	H2	Analog	0.9	3,163,406	2901323.77666667	109.0	
Sc	45	He	Pulse	2.0	555,578	525306.603333333	105.8	
Sc	45	NoGas	Analog	3.3	4,130,850	3897406.83333333	106.0	
Ge	74	H2	Pulse	0.7	1,034,663	987432.603333333	104.8	
Ge	74	He	Pulse	0.9	354,798	339353.55	104.6	
Ge	74	NoGas	Pulse	2.1	1,083,983	1038900.56	104.3	
Rh	103	He	Pulse	2.4	830,644	825137.02	100.7	
Rh	103	NoGas	Mix	2.6	1,120,535	1088224.48333333	103.0	
Tb	159	He	Analog	1.7	1,525,716	1515319.94333333	100.7	
Tb	159	NoGas	Analog	4.4	2,005,741	1977780.97666667	101.4	
Bi	209	He	Pulse	1.7	909,297	951105.013333333	95.6	
Bi	209	NoGas	Pulse	2.0	1,059,617	1103862.58666667	96.0	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL7**	Total Dilution:	**1.0000**
File Name:	050CRL_.d	Vial:	1104
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL3
Acq Time:	6/3/2020 14:15:04	I.S. Reference File:	007CALB.d
Comment:	**A20E190 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	1.815	ppb	5.1	5,892	100.83	
Na	23	45	He	82.359	ppb	3.2	166,396	91.51	
Mg	24	45	He	85.231	ppb	1.6	89,355	94.7	
Al	27	45	He	85.460	ppb	1.8	47,680	94.96	
K	39	45	He	92.332	ppb	2.8	149,100	102.59	
Ca	44	45	H2	503.640	ppb	1.3	160,274	93.27	
[Ca]	44	45	He	503.968	ppb	1.7	22,641	93.33	
Ti	47	45	NoGas	1.670	ppb	5.3	2,556	92.78	
V	51	74	He	1.868	ppb	1.3	11,996	103.78	
Cr	52	74	He	1.794	ppb	3.2	11,923	99.67	
Mn	55	74	He	1.763	ppb	1.0	8,715	97.94	
Fe	56	74	H2	87.356	ppb	2.3	1,520,341	97.06	
Co	59	74	He	1.851	ppb	2.8	15,434	102.83	
Ni	60	74	He	1.860	ppb	2.4	4,216	103.33	
Cu	65	74	He	1.857	ppb	1.4	5,235	103.17	
Zn	66	74	He	1.943	ppb	3.3	2,177	107.94	
As	75	74	He	1.839	ppb	2.0	1,248	102.17	
Se	78	74	H2	1.764	ppb	5.8	651	98	
Mo	95	103	He	1.863	ppb	1.4	5,303	103.5	
Ag	107	103	He	1.807	ppb	1.9	15,467	100.39	
Cd	111	103	He	1.798	ppb	2.6	2,472	99.89	
[Cd]	111	103	NoGas	1.724	ppb	10.1	4,185	95.78	
Sb	121	103	He	1.767	ppb	4.6	7,325	98.17	
Ba	138	159	He	1.751	ppb	3.4	18,748	97.28	
Hg	201	159	NoGas	70.537	ppt	5.5	95	97.97	
Tl	205	159	He	1.628	ppb	4.8	31,873	90.44	
Pb	208	159	NoGas	1.765	ppb	3.7	48,680	98.06	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	4.9	1,240,844	1184450.92333333	104.8	
Sc	45	H2	Analog	1.4	3,201,130	2901323.77666667	110.3	
Sc	45	He	Pulse	2.0	566,759	525306.603333333	107.9	
Sc	45	NoGas	Analog	1.5	4,187,948	3897406.83333333	107.5	
Ge	74	H2	Pulse	2.0	1,052,098	987432.603333333	106.5	
Ge	74	He	Pulse	1.4	360,029	339353.55	106.1	
Ge	74	NoGas	Mix	4.6	1,096,843	1038900.56	105.6	
Rh	103	He	Pulse	2.6	841,642	825137.02	102.0	
Rh	103	NoGas	Mix	6.7	1,133,901	1088224.48333333	104.2	
Tb	159	He	Analog	2.5	1,547,718	1515319.94333333	102.1	
Tb	159	NoGas	Analog	1.6	2,009,489	1977780.97666667	101.6	
Bi	209	He	Pulse	1.8	924,769	951105.013333333	97.2	
Bi	209	NoGas	Mix	5.2	1,081,727	1103862.58666667	98.0	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL8**	Total Dilution:	**1.0000**
File Name:	051CRL4.d	Vial:	1105
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL4
Acq Time:	6/3/2020 14:21:02	I.S. Reference File:	007CALB.d
Comment:	**A20E191 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	3.585	ppb	2.9	11,489	99.58	
Na	23	45	He	165.535	ppb	4.2	311,283	91.96	
Mg	24	45	He	172.996	ppb	4.2	174,593	96.11	
Al	27	45	He	173.693	ppb	3.6	95,586	96.5	
K	39	45	He	183.394	ppb	6.6	225,565	101.89	
Ca	44	45	H2	988.660	ppb	2.2	319,284	91.54	
[Ca]	44	45	He	1044.430	ppb	3.5	45,908	96.71	
Ti	47	45	NoGas	3.375	ppb	3.8	5,040	93.75	
V	51	74	He	3.781	ppb	3.3	21,952	105.03	
Cr	52	74	He	3.529	ppb	2.6	22,855	98.03	
Mn	55	74	He	3.386	ppb	3.7	16,489	94.06	
Fe	56	74	H2	170.882	ppb	1.5	2,934,820	94.93	
Co	59	74	He	3.758	ppb	1.9	31,049	104.39	
Ni	60	74	He	3.575	ppb	6.7	7,765	99.31	
Cu	65	74	He	3.919	ppb	4.0	10,543	108.86	
Zn	66	74	He	3.629	ppb	5.8	3,935	100.81	
As	75	74	He	3.744	ppb	3.7	2,478	104	
Se	78	74	H2	3.629	ppb	2.0	1,342	100.81	
Mo	95	103	He	3.751	ppb	3.7	10,596	104.19	
Ag	107	103	He	3.679	ppb	4.4	31,264	102.19	
Cd	111	103	He	3.636	ppb	5.2	4,967	101	
[Cd]	111	103	NoGas	3.535	ppb	4.3	8,496	98.19	
Sb	121	103	He	3.610	ppb	2.3	14,857	100.28	
Ba	138	159	He	3.545	ppb	2.6	37,116	98.47	
Hg	201	159	NoGas	133.974	ppt	6.4	171	93.04	
Tl	205	159	He	3.331	ppb	3.3	65,020	92.53	
Pb	208	159	NoGas	3.520	ppb	6.7	97,450	97.78	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	1.9	1,230,376	1184450.92333333	103.9	
Sc	45	H2	Analog	2.0	3,271,416	2901323.77666667	112.8	
Sc	45	He	Pulse	3.5	561,917	525306.603333333	107.0	
Sc	45	NoGas	Analog	4.7	4,213,619	3897406.83333333	108.1	
Ge	74	H2	Pulse	0.8	1,057,621	987432.603333333	107.1	
Ge	74	He	Pulse	2.0	359,170	339353.55	105.8	
Ge	74	NoGas	Pulse	2.5	1,088,561	1038900.56	104.8	
Rh	103	He	Pulse	3.2	837,333	825137.02	101.5	
Rh	103	NoGas	Pulse	3.9	1,118,437	1088224.48333333	102.8	
Tb	159	He	Analog	3.1	1,544,108	1515319.94333333	101.9	
Tb	159	NoGas	Analog	5.3	2,028,266	1977780.97666667	102.6	
Bi	209	He	Pulse	2.9	927,516	951105.013333333	97.5	
Bi	209	NoGas	Pulse	4.0	1,074,953	1103862.58666667	97.4	

Quantitation Report - ICPMS5

Sample Name:	**0060121-BLK1**	Total Dilution:	**1.0000**
File Name:	056SMPL.d	Vial:	3204
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	Sample
Acq Time:	6/3/2020 14:46:35	I.S. Reference File:	007CALB.d
Comment:	**0060121 TOTALS Ag As Ba Cd Cr Cu Fe Hg Mo Ni Pb Se Zn**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	LDR	QC Flag
Be	9	6	NoGas	0.017	ppb	28.1	120	100	
Na	23	45	He	17.296	ppb	1.4	48,003	50000	
Mg	24	45	He	8.595	ppb	1.3	12,745	50000	
Al	27	45	He	2.094	ppb	14.4	1,496	50000	
K	39	45	He	3.781	ppb	17.0	68,612	50000	
Ca	44	45	H2	52.091	ppb	2.4	18,068	50000	
[Ca]	44	45	He	53.375	ppb	6.6	2,728	50000	
Ti	47	45	NoGas	0.003	ppb	1110.2	147	2500	
V	51	74	He	0.075	ppb	26.3	2,466	500	
Cr	52	74	He	0.051	ppb	6.6	848	1000	
Mn	55	74	He	0.015	ppb	9.8	280	2500	
Fe	56	74	H2	-0.285	ppb	N/A	50,614	50000	
Co	59	74	He	-0.001	ppb	N/A	182	500	
Ni	60	74	He	0.062	ppb	25.7	442	1000	
Cu	65	74	He	-0.018	ppb	N/A	361	1000	
Zn	66	74	He	0.085	ppb	42.5	212	2500	
As	75	74	He	0.058	ppb	35.3	86	500	
Se	78	74	H2	0.016	ppb	103.1	9	100	
Mo	95	103	He	0.016	ppb	14.1	66	100	
Ag	107	103	He	0.001	ppb	541.1	38	100	
Cd	111	103	He	0.004	ppb	78.3	8	1000	
[Cd]	111	103	NoGas	0.015	ppb	57.7	32	1000	
Sb	121	103	He	0.024	ppb	13.9	127	100	
Ba	138	159	He	0.034	ppb	1.6	1,046	2500	
W	182	159	NoGas	0.009	ppb	28.0	157	40	
Hg	201	159	NoGas	14.078	ppt	19.3	27	4000	
Tl	205	159	He	0.017	ppb	14.6	357	100	
Pb	208	159	NoGas	0.026	ppb	3.3	1,000	500	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,213,504	3.8	1184450.92333333	Analog	102.5	
Sc	45	H2	3,114,216	4.4	2901323.77666667	Analog	107.3	
Sc	45	He	535,085	1.4	525306.603333333	Pulse	101.9	
Sc	45	NoGas	4,047,091	1.6	3897406.83333333	Analog	103.8	
Ge	74	H2	1,002,105	2.4	987432.603333333	Pulse	101.5	
Ge	74	He	340,799	1.3	339353.55	Pulse	100.4	
Ge	74	NoGas	1,039,827	0.3	1038900.56	Pulse	100.1	
Rh	103	He	805,426	2.0	825137.02	Pulse	97.6	
Rh	103	NoGas	1,072,507	1.7	1088224.48333333	Pulse	98.6	
Tb	159	He	1,486,286	3.4	1515319.94333333	Analog	98.1	
Tb	159	NoGas	1,950,767	1.1	1977780.97666667	Analog	98.6	
Bi	209	He	888,389	1.3	951105.013333333	Pulse	93.4	
Bi	209	NoGas	1,029,336	0.9	1103862.58666667	Pulse	93.2	

Quantitation Report - ICPMS5

Sample Name:	**0060121-BS1**	Total Dilution:	**1.0000**
File Name:	057SMPL.d	Vial:	3205
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	Sample
Acq Time:	6/3/2020 14:51:42	I.S. Reference File:	007CALB.d
Comment:	**0060121 TOTALS Ag As Ba Cd Cr Cu Fe Hg Mo Ni Pb Se Zn**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	LDR	QC Flag
Be	9	6	NoGas	23.792	ppb	1.9	73,279	100	
Na	23	45	He	2350.226	ppb	3.3	3,973,128	50000	
Mg	24	45	He	2425.498	ppb	3.2	2,278,449	50000	
Al	27	45	He	2399.553	ppb	4.4	1,256,717	50000	
K	39	45	He	2490.434	ppb	3.8	2,101,345	50000	
Ca	44	45	H2	2440.978	ppb	3.2	728,410	50000	
[Ca]	44	45	He	2469.596	ppb	2.4	103,057	50000	
Ti	47	45	NoGas	44.667	ppb	3.0	63,047	2500	
V	51	74	He	47.821	ppb	2.3	242,016	500	
Cr	52	74	He	46.294	ppb	2.4	281,290	1000	
Mn	55	74	He	44.996	ppb	2.1	207,876	2500	
Fe	56	74	H2	2375.224	ppb	1.2	37,866,374	50000	
Co	59	74	He	49.471	ppb	3.3	390,234	500	
Ni	60	74	He	47.89	ppb	2.4	95,947	1000	
Cu	65	74	He	48.775	ppb	2.4	121,370	1000	
Zn	66	74	He	46.311	ppb	2.4	46,730	2500	
As	75	74	He	48.489	ppb	3.0	30,211	500	
Se	78	74	H2	23.219	ppb	1.9	8,103	100	
Mo	95	103	He	24.433	ppb	3.9	66,006	100	
Ag	107	103	He	24.699	ppb	2.8	201,000	100	
Cd	111	103	He	47.748	ppb	2.9	62,507	1000	
[Cd]	111	103	NoGas	46.399	ppb	3.4	107,463	1000	
Sb	121	103	He	24.221	ppb	3.0	95,332	100	
Ba	138	159	He	45.698	ppb	4.5	454,652	2500	
W	182	159	NoGas	0.018	ppb	19.0	242	40	
Hg	201	159	NoGas	926.699	ppt	1.7	1,098	4000	
Tl	205	159	He	21.986	ppb	3.9	415,304	100	
Pb	208	159	NoGas	46.434	ppb	2.0	1,259,440	500	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,188,197	2.5	1184450.92333333	Analog	100.3	
Sc	45	H2	3,036,910	3.0	2901323.77666667	Analog	104.7	
Sc	45	He	536,949	2.8	525306.603333333	Pulse	102.2	
Sc	45	NoGas	4,089,849	1.5	3897406.83333333	Analog	104.9	
Ge	74	H2	1,000,299	1.6	987432.603333333	Pulse	101.3	
Ge	74	He	344,999	2.0	339353.55	Pulse	101.7	
Ge	74	NoGas	1,055,013	0.8	1038900.56	Pulse	101.6	
Rh	103	He	802,358	3.0	825137.02	Pulse	97.2	
Rh	103	NoGas	1,077,009	1.7	1088224.48333333	Pulse	99.0	
Tb	159	He	1,495,541	3.9	1515319.94333333	Analog	98.7	
Tb	159	NoGas	1,988,463	0.8	1977780.97666667	Analog	100.5	
Bi	209	He	896,293	2.3	951105.013333333	Pulse	94.2	
Bi	209	NoGas	1,052,186	0.8	1103862.58666667	Pulse	95.3	

Quantitation Report - ICPMS5

Sample Name:	**A0E0669-01**	Total Dilution:	**1.0000**
File Name:	059SMPL.d	Vial:	3207
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	Sample
Acq Time:	6/3/2020 15:01:51	I.S. Reference File:	007CALB.d
Comment:	**0060121 TOTALS As Cr Cu Zn**	Last Calibration:	06/03/2020 11:20:48

FullQuant Table:

Element	Mass	ISTD	Tune Mode	Raw Conc	Units	RSD(%)	CPS	LDR	QC Flag
Be	9	6	NoGas	0.014	ppb	42.3	103	100	
Na	23	45	He	3990.551	ppb	0.4	6,388,553	50000	
Mg	24	45	He	1764.946	ppb	0.7	1,574,407	50000	
Al	27	45	He	183.154	ppb	3.8	91,390	50000	
K	39	45	He	655.419	ppb	0.4	570,732	50000	
Ca	44	45	H2	5271.304	ppb	1.5	1,541,931	50000	
[Ca]	44	45	He	5378.417	ppb	0.9	212,347	50000	
Ti	47	45	NoGas	9.683	ppb	9.7	13,069	2500	
V	51	74	He	2.494	ppb	2.4	13,789	500	
Cr	52	74	He	0.317	ppb	3.7	2,326	1000	
Mn	55	74	He	22.456	ppb	0.2	97,874	2500	
Fe	56	74	H2	291.004	ppb	2.2	4,498,683	50000	
Co	59	74	He	0.181	ppb	2.7	1,526	500	
Ni	60	74	He	0.242	ppb	8.6	760	1000	
Cu	65	74	He	0.699	ppb	6.2	2,020	1000	
Zn	66	74	He	1.32	ppb	4.8	1,375	2500	
As	75	74	He	0.399	ppb	3.7	282	500	
Se	78	74	H2	0.044	ppb	64.1	18	100	
Mo	95	103	He	0.177	ppb	9.5	478	100	
Ag	107	103	He	0.002	ppb	118.7	47	100	
Cd	111	103	He	0.006	ppb	53.8	9	1000	
[Cd]	111	103	NoGas	0.014	ppb	78.1	29	1000	
Sb	121	103	He	0.026	ppb	20.3	130	100	
Ba	138	159	He	5.927	ppb	1.7	58,152	2500	
W	182	159	NoGas	0.105	ppb	2.0	1,035	40	
Hg	201	159	NoGas	15.849	ppt	43.5	28	4000	
Tl	205	159	He	0.007	ppb	20.0	169	100	
Pb	208	159	NoGas	0.129	ppb	6.0	3,685	500	

ISTD Table:

Element	Mass	Tune Mode	CPS	RSD(%)	ISTD Ref CPS	Det.	ISTD %	QC Flag
Li	6	NoGas	1,134,782	1.8	1184450.92333333	Analog	95.8	
Sc	45	H2	2,979,218	1.8	2901323.77666667	Analog	102.7	
Sc	45	He	509,190	0.4	525306.603333333	Pulse	96.9	
Sc	45	NoGas	3,883,595	2.6	3897406.83333333	Analog	99.6	
Ge	74	H2	960,069	1.3	987432.603333333	Pulse	97.2	
Ge	74	He	325,060	0.4	339353.55	Pulse	95.8	
Ge	74	NoGas	995,431	1.7	1038900.56	Pulse	95.8	
Rh	103	He	765,195	0.4	825137.02	Pulse	92.7	
Rh	103	NoGas	1,018,251	1.6	1088224.48333333	Pulse	93.6	
Tb	159	He	1,458,093	1.5	1515319.94333333	Analog	96.2	
Tb	159	NoGas	1,921,518	2.1	1977780.97666667	Analog	97.2	
Bi	209	He	886,328	0.1	951105.013333333	Pulse	93.2	
Bi	209	NoGas	1,019,934	1.7	1103862.58666667	Pulse	92.4	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV3**	Total Dilution:	**1.0000**
File Name:	062_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 15:17:01	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	39.173	ppb	4.9	116,338	40	97.93	
Na	23	45	He	3840.781	ppb	1.2	6,210,052	4000	96.02	
Mg	24	45	He	4072.756	ppb	1.0	3,662,963	4000	101.82	
Al	27	45	He	3859.918	ppb	0.4	1,937,443	4000	96.5	
K	39	45	He	3933.082	ppb	2.0	3,143,453	4000	98.33	
Ca	44	45	H2	3696.949	ppb	1.4	1,115,295	4000	92.42	
[Ca]	44	45	He	3885.894	ppb	1.6	155,065	4000	97.15	
Ti	47	45	NoGas	93.397	ppb	4.5	121,874	100	93.4	
V	51	74	He	98.048	ppb	1.5	468,615	100	98.05	
Cr	52	74	He	95.062	ppb	1.7	547,406	100	95.06	
Mn	55	74	He	95.475	ppb	2.0	418,173	100	95.48	
Fe	56	74	H2	3776.109	ppb	0.2	59,447,479	4000	94.4	
Co	59	74	He	101.186	ppb	1.5	757,091	100	101.19	
Ni	60	74	He	99.096	ppb	1.6	188,017	100	99.1	
Cu	65	74	He	100.874	ppb	0.9	237,717	100	100.87	
Zn	66	74	He	94.660	ppb	1.7	90,483	100	94.66	
As	75	74	He	97.972	ppb	1.0	57,864	100	97.97	
Se	78	74	H2	38.554	ppb	1.9	13,293	40	96.38	
Mo	95	103	He	40.563	ppb	2.1	104,344	40	101.41	
Ag	107	103	He	40.153	ppb	1.8	311,103	40	100.38	
Cd	111	103	He	98.881	ppb	2.2	123,247	100	98.88	
[Cd]	111	103	NoGas	98.535	ppb	5.3	212,591	100	98.54	
Sb	121	103	He	41.197	ppb	2.3	154,369	40	102.99	
Ba	138	159	He	98.319	ppb	6.5	926,316	100	98.32	
Hg	201	159	NoGas	822.291	ppt	4.7	923	800	102.79	
Tl	205	159	He	38.599	ppb	6.1	690,977	40	96.5	
Pb	208	159	NoGas	102.454	ppb	4.4	2,630,962	100	102.45	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	4.6	1,147,467	1184450.92333333	96.9	
Sc	45	H2	Analog	1.5	3,071,716	2901323.77666667	105.9	
Sc	45	He	Pulse	1.4	514,260	525306.603333333	97.9	
Sc	45	NoGas	Analog	3.2	3,787,958	3897406.83333333	97.2	
Ge	74	H2	Pulse	0.5	988,229	987432.603333333	100.1	
Ge	74	He	Pulse	1.1	327,216	339353.55	96.4	
Ge	74	NoGas	Pulse	1.7	979,709	1038900.56	94.3	
Rh	103	He	Pulse	1.6	763,678	825137.02	92.6	
Rh	103	NoGas	Mix	4.7	1,004,549	1088224.48333333	92.3	
Tb	159	He	Analog	5.7	1,419,283	1515319.94333333	93.7	
Tb	159	NoGas	Analog	3.3	1,884,459	1977780.97666667	95.3	
Bi	209	He	Pulse	0.7	885,563	951105.013333333	93.1	
Bi	209	NoGas	Mix	4.7	1,023,888	1103862.58666667	92.8	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB3**	Total Dilution:	**1.0000**
File Name:	063_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 15:22:05	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.008	ppb	23.1	86	
Na	23	45	He	3.419	ppb	4.2	23,368	
Mg	24	45	He	0.750	ppb	22.9	5,115	
Al	27	45	He	0.349	ppb	21.4	552	
K	39	45	He	6.475	ppb	22.2	66,924	
Ca	44	45	H2	2.429	ppb	44.7	2,746	
[Ca]	44	45	He	1.700	ppb	54.6	558	
Ti	47	45	NoGas	0.004	ppb	794.1	140	
V	51	74	He	0.009	ppb	104.1	2,035	
Cr	52	74	He	0.029	ppb	4.5	678	
Mn	55	74	He	0.043	ppb	8.6	387	
Fe	56	74	H2	0.121	ppb	295.7	54,536	
Co	59	74	He	0.012	ppb	71.0	267	
Ni	60	74	He	-0.048	ppb	N/A	214	
Cu	65	74	He	0.043	ppb	67.5	486	
Zn	66	74	He	0.080	ppb	30.2	198	
As	75	74	He	0.028	ppb	81.3	65	
Se	78	74	H2	0.032	ppb	15.2	14	
Mo	95	103	He	0.014	ppb	29.0	57	
Ag	107	103	He	0.007	ppb	37.9	90	
Cd	111	103	He	0.022	ppb	11.3	30	
[Cd]	111	103	NoGas	0.023	ppb	28.3	48	
Sb	121	103	He	0.178	ppb	9.5	698	
Ba	138	159	He	0.014	ppb	36.8	841	
Hg	201	159	NoGas	11.708	ppt	64.5	24	
Tl	205	159	He	0.011	ppb	33.7	242	
Pb	208	159	NoGas	0.023	ppb	10.2	924	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	0.9	1,158,571	1184450.92333333	97.8	
Sc	45	H2	Analog	5.5	2,943,357	2901323.77666667	101.4	
Sc	45	He	Pulse	0.2	505,709	525306.603333333	96.3	
Sc	45	NoGas	Analog	4.5	3,843,109	3897406.83333333	98.6	
Ge	74	H2	Pulse	3.6	957,239	987432.603333333	96.9	
Ge	74	He	Pulse	0.4	323,979	339353.55	95.5	
Ge	74	NoGas	Pulse	3.4	989,204	1038900.56	95.2	
Rh	103	He	Pulse	0.9	765,403	825137.02	92.8	
Rh	103	NoGas	Pulse	4.7	1,019,310	1088224.48333333	93.7	
Tb	159	He	Analog	3.6	1,474,355	1515319.94333333	97.3	
Tb	159	NoGas	Analog	4.1	1,953,995	1977780.97666667	98.8	
Bi	209	He	Pulse	0.3	873,615	951105.013333333	91.9	
Bi	209	NoGas	Pulse	5.3	1,024,728	1103862.58666667	92.8	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRL9**	Total Dilution:	**1.0000**
File Name:	064CRL.d	Vial:	1102
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL1
Acq Time:	6/3/2020 15:29:14	I.S. Reference File:	007CALB.d
Comment:	**A20E188 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.208	ppb	16.3	686	115.56	
Na	23	45	He	10.924	ppb	4.3	36,291	121.38	
Mg	24	45	He	8.683	ppb	1.4	12,477	96.48	
Al	27	45	He	8.812	ppb	6.1	4,865	97.91	
K	39	45	He	20.806	ppb	6.9	80,234	231.18	R-11
Ca	44	45	H2	52.034	ppb	3.1	17,473	96.36	
[Ca]	44	45	He	54.710	ppb	5.0	2,708	101.31	
Ti	47	45	NoGas	0.127	ppb	25.9	305	70.56	
V	51	74	He	0.216	ppb	2.5	3,060	120	
Cr	52	74	He	0.512	ppb	3.8	3,488	284.44	R-11
Mn	55	74	He	0.203	ppb	7.4	1,098	112.78	
Fe	56	74	H2	8.433	ppb	4.9	183,497	93.7	
Co	59	74	He	0.176	ppb	16.3	1,511	97.78	
Ni	60	74	He	0.306	ppb	6.9	893	170	R-11
Cu	65	74	He	0.203	ppb	8.3	871	112.78	
Zn	66	74	He	0.307	ppb	22.0	419	170.56	R-11
As	75	74	He	0.188	ppb	19.5	161	104.44	
Se	78	74	H2	0.196	ppb	19.3	69	108.89	
Mo	95	103	He	0.167	ppb	7.5	459	92.78	
Ag	107	103	He	0.184	ppb	5.2	1,482	102.22	
Cd	111	103	He	0.186	ppb	7.2	238	103.33	
[Cd]	111	103	NoGas	0.170	ppb	8.1	368	94.44	
Sb	121	103	He	0.216	ppb	3.8	856	120	
Ba	138	159	He	0.147	ppb	0.7	2,160	81.67	
Hg	201	159	NoGas	8.838	ppt	30.5	21	122.75	
Tl	205	159	He	0.169	ppb	5.0	3,199	93.89	
Pb	208	159	NoGas	0.182	ppb	6.9	5,073	101.11	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.0	1,156,100	1184450.92333333	97.6	
Sc	45	H2	Analog	4.6	3,014,864	2901323.77666667	103.9	
Sc	45	He	Pulse	0.8	520,461	525306.603333333	99.1	
Sc	45	NoGas	Analog	3.3	3,872,037	3897406.83333333	99.3	
Ge	74	H2	Pulse	2.8	970,130	987432.603333333	98.2	
Ge	74	He	Pulse	0.7	329,546	339353.55	97.1	
Ge	74	NoGas	Pulse	2.4	986,758	1038900.56	95.0	
Rh	103	He	Pulse	0.9	776,813	825137.02	94.1	
Rh	103	NoGas	Pulse	2.8	1,011,603	1088224.48333333	93.0	
Tb	159	He	Analog	1.9	1,485,682	1515319.94333333	98.0	
Tb	159	NoGas	Analog	2.6	1,919,542	1977780.97666667	97.1	
Bi	209	He	Pulse	0.3	883,636	951105.013333333	92.9	
Bi	209	NoGas	Pulse	2.6	1,016,326	1103862.58666667	92.1	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLA**	Total Dilution:	**1.0000**
File Name:	065_CRL.d	Vial:	1103
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL2
Acq Time:	6/3/2020 15:34:22	I.S. Reference File:	007CALB.d
Comment:	**A20E189 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.878	ppb	2.5	2,727	97.56	
Na	23	45	He	44.907	ppb	5.2	90,097	99.79	
Mg	24	45	He	44.884	ppb	3.8	44,581	99.74	
Al	27	45	He	43.434	ppb	5.9	22,039	96.52	
K	39	45	He	55.058	ppb	8.4	105,482	122.35	
Ca	44	45	H2	256.302	ppb	9.1	74,978	94.93	
[Ca]	44	45	He	263.311	ppb	4.6	10,907	97.52	
Ti	47	45	NoGas	0.906	ppb	16.5	1,341	100.67	
V	51	74	He	0.956	ppb	5.2	6,515	106.22	
Cr	52	74	He	0.929	ppb	5.8	5,821	103.22	
Mn	55	74	He	0.862	ppb	3.1	3,953	95.78	
Fe	56	74	H2	39.446	ppb	6.3	657,170	87.66	
Co	59	74	He	0.916	ppb	2.5	6,988	101.78	
Ni	60	74	He	0.903	ppb	6.4	2,005	100.33	
Cu	65	74	He	0.996	ppb	3.9	2,711	110.67	
Zn	66	74	He	1.071	ppb	0.6	1,138	119	
As	75	74	He	0.941	ppb	4.2	600	104.56	
Se	78	74	H2	0.933	ppb	4.2	317	103.67	
Mo	95	103	He	0.906	ppb	1.1	2,354	100.67	
Ag	107	103	He	0.919	ppb	3.7	7,155	102.11	
Cd	111	103	He	0.947	ppb	7.0	1,181	105.22	
[Cd]	111	103	NoGas	0.949	ppb	6.1	2,078	105.44	
Sb	121	103	He	0.929	ppb	3.7	3,510	103.22	
Ba	138	159	He	0.813	ppb	6.8	8,675	90.33	
Hg	201	159	NoGas	42.777	ppt	13.6	59	118.82	
Tl	205	159	He	0.850	ppb	4.4	15,881	94.44	
Pb	208	159	NoGas	0.902	ppb	4.0	23,813	100.22	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	1.6	1,170,562	1184450.92333333	98.8	
Sc	45	H2	Analog	8.4	2,917,835	2901323.77666667	100.6	
Sc	45	He	Pulse	3.1	511,533	525306.603333333	97.4	
Sc	45	NoGas	Analog	4.4	3,850,457	3897406.83333333	98.8	
Ge	74	H2	Pulse	5.3	964,350	987432.603333333	97.7	
Ge	74	He	Pulse	2.4	325,032	339353.55	95.8	
Ge	74	NoGas	Pulse	3.4	993,333	1038900.56	95.6	
Rh	103	He	Pulse	3.1	764,005	825137.02	92.6	
Rh	103	NoGas	Pulse	3.7	1,019,345	1088224.48333333	93.7	
Tb	159	He	Analog	4.8	1,477,401	1515319.94333333	97.5	
Tb	159	NoGas	Analog	5.6	1,914,288	1977780.97666667	96.8	
Bi	209	He	Pulse	2.9	876,765	951105.013333333	92.2	
Bi	209	NoGas	Pulse	4.1	1,020,039	1103862.58666667	92.4	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLB**	Total Dilution:	**1.0000**
File Name:	066CRL_.d	Vial:	1104
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL3
Acq Time:	6/3/2020 15:39:30	I.S. Reference File:	007CALB.d
Comment:	**A20E190 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	1.779	ppb	2.1	5,356	98.83	
Na	23	45	He	87.508	ppb	4.4	158,979	97.23	
Mg	24	45	He	87.308	ppb	3.7	82,778	97.01	
Al	27	45	He	86.065	ppb	3.2	43,484	95.63	
K	39	45	He	97.007	ppb	5.8	138,681	107.79	
Ca	44	45	H2	489.477	ppb	4.3	148,149	90.64	
[Ca]	44	45	He	514.625	ppb	2.8	20,929	95.3	
Ti	47	45	NoGas	1.595	ppb	10.2	2,257	88.61	
V	51	74	He	1.852	ppb	1.9	10,819	102.89	
Cr	52	74	He	1.800	ppb	2.3	10,869	100	
Mn	55	74	He	1.753	ppb	2.9	7,872	97.39	
Fe	56	74	H2	83.468	ppb	3.8	1,354,410	92.74	
Co	59	74	He	1.835	ppb	2.6	13,899	101.94	
Ni	60	74	He	1.814	ppb	4.6	3,742	100.78	
Cu	65	74	He	1.930	ppb	4.0	4,925	107.22	
Zn	66	74	He	1.855	ppb	6.8	1,895	103.06	
As	75	74	He	1.870	ppb	4.8	1,151	103.89	
Se	78	74	H2	1.840	ppb	5.9	631	102.22	
Mo	95	103	He	1.910	ppb	7.5	4,976	106.11	
Ag	107	103	He	1.806	ppb	3.6	14,158	100.33	
Cd	111	103	He	1.855	ppb	1.8	2,336	103.06	
[Cd]	111	103	NoGas	1.742	ppb	3.0	3,802	96.78	
Sb	121	103	He	1.803	ppb	3.3	6,848	100.17	
Ba	138	159	He	1.683	ppb	4.1	17,216	93.5	
Hg	201	159	NoGas	72.664	ppt	16.4	93	100.92	
Tl	205	159	He	1.639	ppb	4.0	30,610	91.06	
Pb	208	159	NoGas	1.803	ppb	3.7	47,351	100.17	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	3.5	1,149,006	1184450.92333333	97.0	
Sc	45	H2	Analog	4.5	3,046,833	2901323.77666667	105.0	
Sc	45	He	Pulse	2.7	513,453	525306.603333333	97.7	
Sc	45	NoGas	Analog	1.5	3,863,027	3897406.83333333	99.1	
Ge	74	H2	Pulse	2.5	979,524	987432.603333333	99.2	
Ge	74	He	Pulse	1.7	327,096	339353.55	96.4	
Ge	74	NoGas	Pulse	1.0	992,308	1038900.56	95.5	
Rh	103	He	Pulse	2.4	771,166	825137.02	93.5	
Rh	103	NoGas	Pulse	2.2	1,014,917	1088224.48333333	93.3	
Tb	159	He	Analog	4.4	1,477,312	1515319.94333333	97.5	
Tb	159	NoGas	Analog	2.3	1,914,350	1977780.97666667	96.8	
Bi	209	He	Pulse	2.0	890,737	951105.013333333	93.7	
Bi	209	NoGas	Pulse	1.4	1,030,317	1103862.58666667	93.3	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLC**	Total Dilution:	**1.0000**
File Name:	067CRL4.d	Vial:	1105
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL4
Acq Time:	6/3/2020 15:44:37	I.S. Reference File:	007CALB.d
Comment:	**A20E191 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	3.610	ppb	2.3	10,817	100.28	
Na	23	45	He	172.930	ppb	2.5	292,233	96.07	
Mg	24	45	He	178.115	ppb	1.9	161,865	98.95	
Al	27	45	He	174.574	ppb	1.0	86,571	96.99	
K	39	45	He	186.538	ppb	1.2	205,735	103.63	
Ca	44	45	H2	1008.401	ppb	3.7	292,957	93.37	
[Ca]	44	45	He	1040.851	ppb	2.0	41,226	96.38	
Ti	47	45	NoGas	3.400	ppb	7.8	4,498	94.44	
V	51	74	He	3.687	ppb	0.3	19,341	102.42	
Cr	52	74	He	3.540	ppb	1.9	20,651	98.33	
Mn	55	74	He	3.421	ppb	3.4	15,012	95.03	
Fe	56	74	H2	172.009	ppb	2.2	2,677,881	95.56	
Co	59	74	He	3.629	ppb	0.8	27,028	100.81	
Ni	60	74	He	3.548	ppb	8.4	6,949	98.56	
Cu	65	74	He	3.716	ppb	1.0	9,030	103.22	
Zn	66	74	He	3.780	ppb	3.6	3,690	105	
As	75	74	He	3.642	ppb	2.6	2,174	101.17	
Se	78	74	H2	3.615	ppb	6.1	1,211	100.42	
Mo	95	103	He	3.657	ppb	4.1	9,462	101.58	
Ag	107	103	He	3.592	ppb	1.6	27,965	99.78	
Cd	111	103	He	3.710	ppb	2.7	4,645	103.06	
[Cd]	111	103	NoGas	3.695	ppb	1.6	7,889	102.64	
Sb	121	103	He	3.657	ppb	1.1	13,788	101.58	
Ba	138	159	He	3.480	ppb	1.6	34,432	96.67	
Hg	201	159	NoGas	153.577	ppt	3.9	180	106.65	
Tl	205	159	He	3.345	ppb	0.9	61,687	92.92	
Pb	208	159	NoGas	3.675	ppb	3.5	94,028	102.08	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	1.3	1,149,842	1184450.92333333	97.1	
Sc	45	H2	Analog	4.1	2,945,573	2901323.77666667	101.5	
Sc	45	He	Pulse	1.3	505,991	525306.603333333	96.3	
Sc	45	NoGas	Analog	4.0	3,736,801	3897406.83333333	95.9	
Ge	74	H2	Pulse	2.8	959,229	987432.603333333	97.1	
Ge	74	He	Pulse	0.7	323,571	339353.55	95.3	
Ge	74	NoGas	Pulse	2.5	975,107	1038900.56	93.9	
Rh	103	He	Pulse	0.6	766,550	825137.02	92.9	
Rh	103	NoGas	Pulse	2.9	992,927	1088224.48333333	91.2	
Tb	159	He	Analog	1.4	1,458,181	1515319.94333333	96.2	
Tb	159	NoGas	Analog	3.7	1,871,924	1977780.97666667	94.6	
Bi	209	He	Pulse	0.5	888,435	951105.013333333	93.4	
Bi	209	NoGas	Pulse	3.8	1,012,782	1103862.58666667	91.7	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV4**	Total Dilution:	**1.0000**
File Name:	078_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 16:40:23	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	38.384	ppb	3.1	107,917	40	95.96	
Na	23	45	He	3864.975	ppb	0.8	5,422,748	4000	96.62	
Mg	24	45	He	4072.509	ppb	0.5	3,178,408	4000	101.81	
Al	27	45	He	3937.863	ppb	0.4	1,715,037	4000	98.45	
K	39	45	He	3968.154	ppb	1.4	2,751,782	4000	99.2	
Ca	44	45	H2	3892.661	ppb	0.4	963,798	4000	97.32	
[Ca]	44	45	He	3941.711	ppb	1.9	136,484	4000	98.54	
Ti	47	45	NoGas	94.830	ppb	4.7	111,296	100	94.83	
V	51	74	He	96.315	ppb	0.6	413,820	100	96.32	
Cr	52	74	He	93.385	ppb	0.3	483,398	100	93.38	
Mn	55	74	He	94.684	ppb	0.5	372,788	100	94.68	
Fe	56	74	H2	3908.436	ppb	1.1	52,332,054	4000	97.71	
Co	59	74	He	99.345	ppb	0.5	668,172	100	99.34	
Ni	60	74	He	96.571	ppb	0.4	164,712	100	96.57	
Cu	65	74	He	98.734	ppb	0.6	209,149	100	98.73	
Zn	66	74	He	95.041	ppb	1.0	81,662	100	95.04	
As	75	74	He	97.745	ppb	0.3	51,892	100	97.74	
Se	78	74	H2	40.714	ppb	2.3	11,938	40	101.78	
Mo	95	103	He	40.593	ppb	1.9	95,310	40	101.48	
Ag	107	103	He	40.225	ppb	1.2	284,467	40	100.56	
Cd	111	103	He	100.615	ppb	1.3	114,472	100	100.61	
[Cd]	111	103	NoGas	99.601	ppb	4.3	201,053	100	99.6	
Sb	121	103	He	41.862	ppb	1.6	143,180	40	104.66	
Ba	138	159	He	94.116	ppb	4.1	867,317	100	94.12	
Hg	201	159	NoGas	820.770	ppt	3.3	903	800	102.6	
Tl	205	159	He	38.229	ppb	3.9	669,280	40	95.57	
Pb	208	159	NoGas	101.821	ppb	4.6	2,559,696	100	101.82	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	3.2	1,085,268	1184450.92333333	91.6	
Sc	45	H2	Analog	0.4	2,520,963	2901323.77666667	86.9	
Sc	45	He	Pulse	1.0	446,234	525306.603333333	84.9	
Sc	45	NoGas	Analog	3.4	3,407,239	3897406.83333333	87.4	
Ge	74	H2	Pulse	1.3	840,589	987432.603333333	85.1	
Ge	74	He	Pulse	0.4	294,107	339353.55	86.7	
Ge	74	NoGas	Pulse	1.7	902,357	1038900.56	86.9	
Rh	103	He	Pulse	0.6	696,954	825137.02	84.5	
Rh	103	NoGas	Pulse	3.2	939,152	1088224.48333333	86.3	
Tb	159	He	Analog	3.4	1,386,015	1515319.94333333	91.5	
Tb	159	NoGas	Analog	3.5	1,845,028	1977780.97666667	93.3	
Bi	209	He	Pulse	0.5	854,182	951105.013333333	89.8	
Bi	209	NoGas	Pulse	2.5	980,249	1103862.58666667	88.8	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB4**	Total Dilution:	**1.0000**
File Name:	079_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 16:45:27	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.003	ppb	284.4	68	
Na	23	45	He	38.838	ppb	4.4	69,921	
Mg	24	45	He	0.696	ppb	20.8	4,456	
Al	27	45	He	0.342	ppb	23.6	483	
K	39	45	He	2.523	ppb	85.2	56,176	
Ca	44	45	H2	0.741	ppb	82.1	1,992	
[Ca]	44	45	He	-0.818	ppb	N/A	403	
Ti	47	45	NoGas	0.006	ppb	416.0	130	
V	51	74	He	0.088	ppb	23.3	2,161	
Cr	52	74	He	0.026	ppb	13.5	592	
Mn	55	74	He	0.070	ppb	16.9	450	
Fe	56	74	H2	-0.635	ppb	N/A	37,998	
Co	59	74	He	0.009	ppb	46.3	219	
Ni	60	74	He	-0.043	ppb	N/A	201	
Cu	65	74	He	0.062	ppb	73.3	474	
Zn	66	74	He	0.037	ppb	76.1	141	
As	75	74	He	0.057	ppb	30.1	73	
Se	78	74	H2	0.044	ppb	35.8	16	
Mo	95	103	He	0.020	ppb	9.1	66	
Ag	107	103	He	0.007	ppb	55.5	78	
Cd	111	103	He	0.024	ppb	30.4	29	
[Cd]	111	103	NoGas	0.032	ppb	10.1	65	
Sb	121	103	He	0.205	ppb	9.4	728	
Ba	138	159	He	0.010	ppb	29.1	724	
Hg	201	159	NoGas	2.962	ppt	175.7	13	
Tl	205	159	He	0.012	ppb	32.6	226	
Pb	208	159	NoGas	0.026	ppb	6.1	942	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	1.7	1,087,185	1184450.92333333	91.8	
Sc	45	H2	Analog	2.7	2,580,659	2901323.77666667	88.9	
Sc	45	He	Pulse	3.0	444,941	525306.603333333	84.7	
Sc	45	NoGas	Analog	3.6	3,473,278	3897406.83333333	89.1	
Ge	74	H2	Pulse	1.0	845,600	987432.603333333	85.6	
Ge	74	He	Pulse	1.8	290,825	339353.55	85.7	
Ge	74	NoGas	Pulse	1.1	903,724	1038900.56	87.0	
Rh	103	He	Pulse	2.4	697,145	825137.02	84.5	
Rh	103	NoGas	Pulse	2.5	952,532	1088224.48333333	87.5	
Tb	159	He	Mix	4.6	1,336,048	1515319.94333333	88.2	
Tb	159	NoGas	Analog	3.0	1,846,284	1977780.97666667	93.4	
Bi	209	He	Pulse	2.0	841,694	951105.013333333	88.5	
Bi	209	NoGas	Pulse	1.7	978,751	1103862.58666667	88.7	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV5**	Total Dilution:	**1.0000**
File Name:	090_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 17:41:21	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	39.014	ppb	4.4	109,688	40	97.54	
Na	23	45	He	3801.645	ppb	2.8	5,558,874	4000	95.04	
Mg	24	45	He	4020.032	ppb	3.3	3,269,238	4000	100.5	
Al	27	45	He	3894.176	ppb	3.1	1,767,316	4000	97.35	
K	39	45	He	4020.183	ppb	3.9	2,903,960	4000	100.5	
Ca	44	45	H2	3814.918	ppb	7.2	1,014,628	4000	95.37	
[Ca]	44	45	He	3953.319	ppb	4.1	142,621	4000	98.83	
Ti	47	45	NoGas	94.454	ppb	5.3	116,475	100	94.45	
V	51	74	He	95.855	ppb	2.0	429,204	100	95.86	
Cr	52	74	He	92.512	ppb	2.7	499,016	100	92.51	
Mn	55	74	He	94.770	ppb	2.1	388,836	100	94.77	
Fe	56	74	H2	3795.814	ppb	4.6	54,207,448	4000	94.9	
Co	59	74	He	99.312	ppb	2.4	696,055	100	99.31	
Ni	60	74	He	96.537	ppb	1.3	171,598	100	96.54	
Cu	65	74	He	98.882	ppb	2.7	218,271	100	98.88	
Zn	66	74	He	94.623	ppb	2.9	84,721	100	94.62	
As	75	74	He	98.484	ppb	2.7	54,482	100	98.48	
Se	78	74	H2	39.967	ppb	5.8	12,496	40	99.92	
Mo	95	103	He	40.644	ppb	3.0	98,868	40	101.61	
Ag	107	103	He	40.365	ppb	3.4	295,711	40	100.91	
Cd	111	103	He	100.737	ppb	3.8	118,716	100	100.74	
[Cd]	111	103	NoGas	99.338	ppb	4.6	208,824	100	99.34	
Sb	121	103	He	42.205	ppb	4.0	149,529	40	105.51	
Ba	138	159	He	96.082	ppb	5.0	905,294	100	96.08	
Hg	201	159	NoGas	794.789	ppt	9.5	901	800	99.35	
Tl	205	159	He	38.643	ppb	3.7	691,915	40	96.61	
Pb	208	159	NoGas	101.880	ppb	6.1	2,643,437	100	101.88	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	4.3	1,086,031	1184450.92333333	91.7	
Sc	45	H2	Analog	6.0	2,715,600	2901323.77666667	93.6	
Sc	45	He	Pulse	3.0	465,263	525306.603333333	88.6	
Sc	45	NoGas	Analog	4.0	3,581,395	3897406.83333333	91.9	
Ge	74	H2	Pulse	3.7	897,448	987432.603333333	90.9	
Ge	74	He	Pulse	1.5	306,552	339353.55	90.3	
Ge	74	NoGas	Pulse	2.5	942,884	1038900.56	90.8	
Rh	103	He	Pulse	2.9	722,424	825137.02	87.6	
Rh	103	NoGas	Pulse	3.9	978,321	1088224.48333333	89.9	
Tb	159	He	Analog	3.8	1,417,637	1515319.94333333	93.6	
Tb	159	NoGas	Analog	5.1	1,906,172	1977780.97666667	96.4	
Bi	209	He	Pulse	2.6	882,669	951105.013333333	92.8	
Bi	209	NoGas	Pulse	2.6	1,022,379	1103862.58666667	92.6	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB5**	Total Dilution:	**1.0000**
File Name:	091_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 17:46:26	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.013	ppb	25.4	98	
Na	23	45	He	17.403	ppb	5.8	42,356	
Mg	24	45	He	0.969	ppb	10.9	4,939	
Al	27	45	He	0.233	ppb	49.4	460	
K	39	45	He	3.235	ppb	31.2	59,938	
Ca	44	45	H2	3.677	ppb	17.4	2,855	
[Ca]	44	45	He	2.190	ppb	12.1	537	
Ti	47	45	NoGas	-0.006	ppb	N/A	120	
V	51	74	He	0.051	ppb	26.6	2,115	
Cr	52	74	He	0.020	ppb	58.5	596	
Mn	55	74	He	0.085	ppb	14.9	538	
Fe	56	74	H2	-0.799	ppb	N/A	38,149	
Co	59	74	He	0.004	ppb	170.6	202	
Ni	60	74	He	-0.010	ppb	N/A	270	
Cu	65	74	He	0.086	ppb	18.7	553	
Zn	66	74	He	0.030	ppb	126.4	142	
As	75	74	He	0.055	ppb	37.2	76	
Se	78	74	H2	0.025	ppb	50.1	11	
Mo	95	103	He	0.020	ppb	78.0	70	
Ag	107	103	He	0.006	ppb	13.5	77	
Cd	111	103	He	0.024	ppb	2.8	31	
[Cd]	111	103	NoGas	0.016	ppb	14.6	33	
Sb	121	103	He	0.182	ppb	5.0	686	
Ba	138	159	He	0.013	ppb	40.7	812	
Hg	201	159	NoGas	2.953	ppt	173.0	14	
Tl	205	159	He	0.011	ppb	24.4	242	
Pb	208	159	NoGas	0.022	ppb	22.8	879	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	4.6	1,126,955	1184450.92333333	95.1	
Sc	45	H2	Analog	4.1	2,697,416	2901323.77666667	93.0	
Sc	45	He	Pulse	1.8	470,522	525306.603333333	89.6	
Sc	45	NoGas	Analog	5.5	3,671,959	3897406.83333333	94.2	
Ge	74	H2	Pulse	1.2	901,292	987432.603333333	91.3	
Ge	74	He	Pulse	1.1	306,614	339353.55	90.4	
Ge	74	NoGas	Pulse	3.7	958,461	1038900.56	92.3	
Rh	103	He	Pulse	1.5	735,083	825137.02	89.1	
Rh	103	NoGas	Pulse	5.2	1,005,877	1088224.48333333	92.4	
Tb	159	He	Analog	0.6	1,442,010	1515319.94333333	95.2	
Tb	159	NoGas	Analog	6.7	1,925,469	1977780.97666667	97.4	
Bi	209	He	Pulse	2.2	881,181	951105.013333333	92.6	
Bi	209	NoGas	Pulse	4.8	1,032,892	1103862.58666667	93.6	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV6**	Total Dilution:	**1.0000**
File Name:	102_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 18:42:31	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	38.536	ppb	3.3	97,627	40	96.34	
Na	23	45	He	3858.382	ppb	1.0	4,840,583	4000	96.46	
Mg	24	45	He	4097.561	ppb	2.1	2,859,281	4000	102.44	
Al	27	45	He	3976.402	ppb	1.2	1,548,486	4000	99.41	
K	39	45	He	4081.132	ppb	1.1	2,529,277	4000	102.03	
Ca	44	45	H2	3784.057	ppb	5.0	895,433	4000	94.6	
[Ca]	44	45	He	4000.751	ppb	0.9	123,871	4000	100.02	
Ti	47	45	NoGas	94.192	ppb	2.9	102,795	100	94.19	
V	51	74	He	94.239	ppb	1.0	373,324	100	94.24	
Cr	52	74	He	92.037	ppb	1.6	439,216	100	92.04	
Mn	55	74	He	94.658	ppb	1.3	343,585	100	94.66	
Fe	56	74	H2	3736.040	ppb	4.0	48,287,185	4000	93.4	
Co	59	74	He	98.837	ppb	0.9	612,853	100	98.84	
Ni	60	74	He	96.134	ppb	1.4	151,161	100	96.13	
Cu	65	74	He	99.084	ppb	1.0	193,503	100	99.08	
Zn	66	74	He	95.942	ppb	0.6	76,000	100	95.94	
As	75	74	He	99.549	ppb	0.8	48,723	100	99.55	
Se	78	74	H2	39.852	ppb	3.1	11,283	40	99.63	
Mo	95	103	He	41.470	ppb	1.6	90,763	40	103.68	
Ag	107	103	He	41.234	ppb	1.4	271,804	40	103.08	
Cd	111	103	He	103.981	ppb	1.0	110,268	100	103.98	
[Cd]	111	103	NoGas	101.153	ppb	4.3	194,418	100	101.15	
Sb	121	103	He	43.625	ppb	1.7	139,078	40	109.06	
Ba	138	159	He	99.214	ppb	3.8	847,763	100	99.21	
Hg	201	159	NoGas	807.443	ppt	5.0	872	800	100.93	
Tl	205	159	He	41.198	ppb	4.0	668,747	40	102.99	
Pb	208	159	NoGas	103.840	ppb	3.1	2,565,194	100	103.84	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.8	977,985	1184450.92333333	82.6	
Sc	45	H2	Analog	5.2	2,413,376	2901323.77666667	83.2	
Sc	45	He	Pulse	0.6	399,000	525306.603333333	76.0	
Sc	45	NoGas	Analog	2.2	3,166,345	3897406.83333333	81.2	
Ge	74	H2	Pulse	3.7	812,090	987432.603333333	82.2	
Ge	74	He	Pulse	0.5	271,150	339353.55	79.9	
Ge	74	NoGas	Pulse	1.1	847,416	1038900.56	81.6	
Rh	103	He	Pulse	0.7	649,635	825137.02	78.7	
Rh	103	NoGas	Pulse	3.0	894,186	1088224.48333333	82.2	
Tb	159	He	Mix	2.9	1,284,987	1515319.94333333	84.8	
Tb	159	NoGas	Analog	3.3	1,812,301	1977780.97666667	91.6	
Bi	209	He	Pulse	0.7	835,534	951105.013333333	87.8	
Bi	209	NoGas	Pulse	2.5	981,602	1103862.58666667	88.9	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB6**	Total Dilution:	**1.0000**
File Name:	103_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 18:47:36	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.002	ppb	395.2	59	
Na	23	45	He	32.247	ppb	2.7	55,765	
Mg	24	45	He	-0.881	ppb	N/A	2,967	
Al	27	45	He	0.172	ppb	34.8	376	
K	39	45	He	0.378	ppb	631.6	50,222	
Ca	44	45	H2	0.435	ppb	197.5	1,742	
[Ca]	44	45	He	-0.493	ppb	N/A	380	
Ti	47	45	NoGas	-0.022	ppb	N/A	90	
V	51	74	He	-0.026	ppb	N/A	1,585	
Cr	52	74	He	0.004	ppb	284.1	456	
Mn	55	74	He	0.054	ppb	6.8	367	
Fe	56	74	H2	-1.175	ppb	N/A	29,016	
Co	59	74	He	0.006	ppb	42.9	192	
Ni	60	74	He	-0.051	ppb	N/A	177	
Cu	65	74	He	0.102	ppb	50.6	526	
Zn	66	74	He	0.017	ppb	136.3	117	
As	75	74	He	0.052	ppb	49.3	67	
Se	78	74	H2	0.037	ppb	47.3	13	
Mo	95	103	He	0.021	ppb	6.6	66	
Ag	107	103	He	0.008	ppb	22.2	81	
Cd	111	103	He	0.023	ppb	27.9	26	
[Cd]	111	103	NoGas	0.027	ppb	52.9	53	
Sb	121	103	He	0.206	ppb	6.6	701	
Ba	138	159	He	0.011	ppb	66.8	732	
Hg	201	159	NoGas	-0.981	ppt	N/A	9	
Tl	205	159	He	0.010	ppb	36.0	200	
Pb	208	159	NoGas	0.023	ppb	13.9	872	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	2.7	1,008,014	1184450.92333333	85.1	
Sc	45	H2	Analog	2.4	2,354,446	2901323.77666667	81.2	
Sc	45	He	Pulse	2.6	408,345	525306.603333333	77.7	
Sc	45	NoGas	Analog	4.3	3,282,938	3897406.83333333	84.2	
Ge	74	H2	Pulse	1.3	798,515	987432.603333333	80.9	
Ge	74	He	Pulse	1.2	274,284	339353.55	80.8	
Ge	74	NoGas	Pulse	2.6	871,522	1038900.56	83.9	
Rh	103	He	Pulse	2.2	666,869	825137.02	80.8	
Rh	103	NoGas	Pulse	3.6	929,120	1088224.48333333	85.4	
Tb	159	He	Analog	3.2	1,333,329	1515319.94333333	88.0	
Tb	159	NoGas	Analog	4.4	1,881,741	1977780.97666667	95.1	
Bi	209	He	Pulse	1.7	849,790	951105.013333333	89.3	
Bi	209	NoGas	Pulse	4.0	996,421	1103862.58666667	90.3	

Continuing Calibration Verification (CCV) Report - ICPMS5

Sample Name:	**0F03039-CCV7**	Total Dilution:	**1.0000**
File Name:	107_CCV.d	Vial:	2
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCV
Acq Time:	6/3/2020 19:08:06	I.S. Reference File:	007CALB.d
Comment:	**A20E094 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	Conc. RSD	CPS	ExpValue	% Rec	Flag
Be	9	6	NoGas	38.238	ppb	3.2	99,586	40	95.6	
Na	23	45	He	3812.323	ppb	2.7	4,975,875	4000	95.31	
Mg	24	45	He	4067.247	ppb	3.4	2,952,458	4000	101.68	
Al	27	45	He	3890.088	ppb	2.3	1,576,050	4000	97.25	
K	39	45	He	4042.274	ppb	2.7	2,606,715	4000	101.06	
Ca	44	45	H2	3778.768	ppb	2.9	923,777	4000	94.47	
[Ca]	44	45	He	3945.209	ppb	3.9	127,057	4000	98.63	
Ti	47	45	NoGas	94.097	ppb	3.2	105,296	100	94.1	
V	51	74	He	93.306	ppb	2.3	383,240	100	93.31	
Cr	52	74	He	90.566	ppb	2.6	448,095	100	90.57	
Mn	55	74	He	93.249	ppb	2.7	350,906	100	93.25	
Fe	56	74	H2	3741.312	ppb	1.9	49,643,535	4000	93.53	
Co	59	74	He	97.414	ppb	2.3	626,246	100	97.41	
Ni	60	74	He	95.022	ppb	2.7	154,905	100	95.02	
Cu	65	74	He	97.340	ppb	1.5	197,112	100	97.34	
Zn	66	74	He	94.929	ppb	2.0	77,969	100	94.93	
As	75	74	He	96.568	ppb	2.5	49,002	100	96.57	
Se	78	74	H2	40.016	ppb	1.1	11,629	40	100.04	
Mo	95	103	He	40.753	ppb	2.8	92,091	40	101.88	
Ag	107	103	He	40.909	ppb	3.1	278,416	40	102.27	
Cd	111	103	He	102.544	ppb	3.2	112,272	100	102.54	
[Cd]	111	103	NoGas	101.336	ppb	4.0	196,969	100	101.34	
Sb	121	103	He	43.577	ppb	3.1	143,441	40	108.94	
Ba	138	159	He	95.761	ppb	5.8	862,743	100	95.76	
Hg	201	159	NoGas	834.812	ppt	6.7	909	800	104.35	
Tl	205	159	He	39.812	ppb	5.4	681,465	40	99.53	
Pb	208	159	NoGas	103.244	ppb	4.1	2,573,813	100	103.24	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.5	1,005,226	1184450.92333333	84.9	
Sc	45	H2	Analog	2.0	2,489,889	2901323.77666667	85.8	
Sc	45	He	Pulse	2.4	415,253	525306.603333333	79.0	
Sc	45	NoGas	Analog	3.1	3,247,425	3897406.83333333	83.3	
Ge	74	H2	Pulse	0.6	832,985	987432.603333333	84.4	
Ge	74	He	Pulse	1.5	281,177	339353.55	82.9	
Ge	74	NoGas	Pulse	2.2	868,300	1038900.56	83.6	
Rh	103	He	Pulse	2.2	670,996	825137.02	81.3	
Rh	103	NoGas	Pulse	2.6	904,122	1088224.48333333	83.1	
Tb	159	He	Mix	4.7	1,356,254	1515319.94333333	89.5	
Tb	159	NoGas	Analog	2.8	1,829,138	1977780.97666667	92.5	
Bi	209	He	Pulse	1.6	860,105	951105.013333333	90.4	
Bi	209	NoGas	Pulse	2.7	998,444	1103862.58666667	90.5	

Continuing Calibration Blank (CCB) Report ICPMS5

Sample Name:	**0F03039-CCB7**	Total Dilution:	**1.0000**
File Name:	108_CCB.d	Vial:	1
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CCB
Acq Time:	6/3/2020 19:13:11	I.S. Reference File:	007CALB.d
Comment:	**CCB**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	CPS	QC Flag
Be	9	6	NoGas	0.010	ppb	60.5	80	
Na	23	45	He	14.970	ppb	6.8	34,776	
Mg	24	45	He	-0.728	ppb	N/A	3,177	
Al	27	45	He	0.372	ppb	36.9	470	
K	39	45	He	1.408	ppb	201.3	52,585	
Ca	44	45	H2	-0.430	ppb	N/A	1,670	
[Ca]	44	45	He	-2.707	ppb	N/A	321	
Ti	47	45	NoGas	-0.011	ppb	N/A	103	
V	51	74	He	-0.052	ppb	N/A	1,521	
Cr	52	74	He	0.002	ppb	123.3	458	
Mn	55	74	He	0.030	ppb	38.1	287	
Fe	56	74	H2	-1.157	ppb	N/A	31,055	
Co	59	74	He	0.004	ppb	79.9	183	
Ni	60	74	He	-0.042	ppb	N/A	197	
Cu	65	74	He	0.103	ppb	39.1	543	
Zn	66	74	He	0.001	ppb	3176.8	107	
As	75	74	He	0.004	ppb	454.4	44	
Se	78	74	H2	0.058	ppb	41.6	20	
Mo	95	103	He	0.025	ppb	36.0	77	
Ag	107	103	He	0.007	ppb	47.0	80	
Cd	111	103	He	0.032	ppb	40.5	37	
[Cd]	111	103	NoGas	0.030	ppb	24.5	57	
Sb	121	103	He	0.204	ppb	11.9	712	
Ba	138	159	He	0.011	ppb	54.9	760	
Hg	201	159	NoGas	1.168	ppt	233.7	11	
Tl	205	159	He	0.011	ppb	9.2	230	
Pb	208	159	NoGas	0.027	ppb	14.7	971	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC flag
Li	6	NoGas	Analog	3.2	1,015,128	1184450.92333333	85.7	
Sc	45	H2	Analog	4.4	2,551,847	2901323.77666667	88.0	
Sc	45	He	Pulse	2.8	422,234	525306.603333333	80.4	
Sc	45	NoGas	Analog	1.6	3,313,263	3897406.83333333	85.0	
Ge	74	H2	Pulse	3.4	848,419	987432.603333333	85.9	
Ge	74	He	Pulse	1.9	281,997	339353.55	83.1	
Ge	74	NoGas	Pulse	1.0	872,875	1038900.56	84.0	
Rh	103	He	Pulse	3.0	684,261	825137.02	82.9	
Rh	103	NoGas	Pulse	1.5	919,782	1088224.48333333	84.5	
Tb	159	He	Analog	3.1	1,387,578	1515319.94333333	91.6	
Tb	159	NoGas	Analog	2.0	1,853,437	1977780.97666667	93.7	
Bi	209	He	Pulse	2.9	865,072	951105.013333333	91.0	
Bi	209	NoGas	Pulse	1.5	992,657	1103862.58666667	89.9	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLD**	Total Dilution:	**1.0000**
File Name:	109CRL.d	Vial:	1102
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL1
Acq Time:	6/3/2020 19:18:21	I.S. Reference File:	007CALB.d
Comment:	**A20E188 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.162	ppb	4.0	477	90	
Na	23	45	He	22.463	ppb	3.5	44,564	249.59	R-11
Mg	24	45	He	7.352	ppb	6.6	9,107	81.69	
Al	27	45	He	8.580	ppb	3.9	3,839	95.33	
K	39	45	He	17.788	ppb	13.6	62,935	197.64	R-11
Ca	44	45	H2	51.905	ppb	18.3	14,237	96.12	
[Ca]	44	45	He	52.896	ppb	3.5	2,131	97.96	
Ti	47	45	NoGas	0.122	ppb	19.7	255	67.78	R-11
V	51	74	He	0.119	ppb	6.3	2,226	66.11	R-11
Cr	52	74	He	0.485	ppb	3.6	2,856	269.44	R-11
Mn	55	74	He	0.191	ppb	7.2	896	106.11	
Fe	56	74	H2	7.591	ppb	13.6	146,113	84.34	
Co	59	74	He	0.167	ppb	5.3	1,236	92.78	
Ni	60	74	He	0.326	ppb	14.8	799	181.11	R-11
Cu	65	74	He	0.274	ppb	13.4	891	152.22	R-11
Zn	66	74	He	0.240	ppb	24.8	304	133.33	R-11
As	75	74	He	0.197	ppb	16.8	143	109.44	
Se	78	74	H2	0.209	ppb	2.1	63	116.11	
Mo	95	103	He	0.180	ppb	11.6	430	100	
Ag	107	103	He	0.185	ppb	4.3	1,303	102.78	
Cd	111	103	He	0.209	ppb	12.4	234	116.11	
[Cd]	111	103	NoGas	0.203	ppb	9.1	403	112.78	
Sb	121	103	He	0.254	ppb	6.7	874	141.11	R-11
Ba	138	159	He	0.153	ppb	7.4	2,045	85	
Hg	201	159	NoGas	5.778	ppt	93.1	17	80.25	
Tl	205	159	He	0.181	ppb	5.8	3,161	100.56	
Pb	208	159	NoGas	0.186	ppb	8.1	5,054	103.33	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	2.8	1,003,714	1184450.92333333	84.7	
Sc	45	H2	Analog	12.2	2,492,763	2901323.77666667	85.9	
Sc	45	He	Pulse	2.0	420,887	525306.603333333	80.1	
Sc	45	NoGas	Analog	3.1	3,315,873	3897406.83333333	85.1	
Ge	74	H2	Pulse	7.4	834,632	987432.603333333	84.5	
Ge	74	He	Pulse	1.3	282,661	339353.55	83.3	
Ge	74	NoGas	Pulse	1.9	875,308	1038900.56	84.3	
Rh	103	He	Pulse	1.9	679,762	825137.02	82.4	
Rh	103	NoGas	Pulse	2.4	924,051	1088224.48333333	84.9	
Tb	159	He	Mix	6.0	1,369,258	1515319.94333333	90.4	
Tb	159	NoGas	Analog	2.2	1,874,161	1977780.97666667	94.8	
Bi	209	He	Pulse	1.3	860,157	951105.013333333	90.4	
Bi	209	NoGas	Pulse	1.7	997,407	1103862.58666667	90.4	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLE**	Total Dilution:	**1.0000**
File Name:	110_CRL.d	Vial:	1103
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL2
Acq Time:	6/3/2020 19:23:30	I.S. Reference File:	007CALB.d
Comment:	**A20E189 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	0.911	ppb	2.3	2,381	101.22	
Na	23	45	He	56.942	ppb	2.5	88,056	126.54	
Mg	24	45	He	43.307	ppb	0.9	34,754	96.24	
Al	27	45	He	43.547	ppb	0.6	17,798	96.77	
K	39	45	He	51.757	ppb	6.1	82,828	115.02	
Ca	44	45	H2	244.906	ppb	7.1	63,107	90.71	
[Ca]	44	45	He	270.497	ppb	1.4	9,010	100.18	
Ti	47	45	NoGas	0.771	ppb	15.5	970	85.67	
V	51	74	He	0.835	ppb	3.0	5,062	92.78	
Cr	52	74	He	0.901	ppb	1.1	4,822	100.11	
Mn	55	74	He	0.889	ppb	2.5	3,459	98.78	
Fe	56	74	H2	36.566	ppb	5.5	543,777	81.26	
Co	59	74	He	0.888	ppb	4.5	5,771	98.67	
Ni	60	74	He	0.790	ppb	4.4	1,525	87.78	
Cu	65	74	He	1.036	ppb	9.9	2,388	115.11	
Zn	66	74	He	1.110	ppb	9.9	1,000	123.33	
As	75	74	He	0.914	ppb	6.8	497	101.56	
Se	78	74	H2	0.968	ppb	17.8	290	107.56	
Mo	95	103	He	0.966	ppb	7.4	2,178	107.33	
Ag	107	103	He	0.953	ppb	1.1	6,452	105.89	
Cd	111	103	He	0.994	ppb	1.7	1,079	110.44	
[Cd]	111	103	NoGas	0.967	ppb	4.6	1,867	107.44	
Sb	121	103	He	1.000	ppb	2.5	3,285	111.11	
Ba	138	159	He	0.838	ppb	4.7	8,028	93.11	
Hg	201	159	NoGas	37.125	ppt	21.4	50	103.12	
Tl	205	159	He	0.902	ppb	5.5	15,159	100.22	
Pb	208	159	NoGas	0.925	ppb	1.6	23,148	102.78	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	3.1	986,721	1184450.92333333	83.3	
Sc	45	H2	Analog	6.1	2,561,263	2901323.77666667	88.3	
Sc	45	He	Pulse	1.7	411,538	525306.603333333	78.3	
Sc	45	NoGas	Analog	1.6	3,220,339	3897406.83333333	82.6	
Ge	74	H2	Pulse	4.6	854,909	987432.603333333	86.6	
Ge	74	He	Pulse	0.9	276,597	339353.55	81.5	
Ge	74	NoGas	Pulse	1.4	861,560	1038900.56	82.9	
Rh	103	He	Pulse	1.2	664,311	825137.02	80.5	
Rh	103	NoGas	Pulse	1.4	898,247	1088224.48333333	82.5	
Tb	159	He	Mix	5.0	1,328,979	1515319.94333333	87.7	
Tb	159	NoGas	Analog	1.9	1,813,377	1977780.97666667	91.7	
Bi	209	He	Pulse	0.4	838,712	951105.013333333	88.2	
Bi	209	NoGas	Pulse	2.1	980,961	1103862.58666667	88.9	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLF**	Total Dilution:	**1.0000**
File Name:	111CRL_.d	Vial:	1104
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL3
Acq Time:	6/3/2020 19:28:39	I.S. Reference File:	007CALB.d
Comment:	**A20E190 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	1.804	ppb	6.5	4,710	100.22	
Na	23	45	He	96.214	ppb	1.0	143,715	106.9	
Mg	24	45	He	84.886	ppb	3.0	66,957	94.32	
Al	27	45	He	84.624	ppb	1.1	35,522	94.03	
K	39	45	He	91.695	ppb	3.7	111,743	101.88	
Ca	44	45	H2	515.310	ppb	1.7	124,869	95.43	
[Ca]	44	45	He	519.540	ppb	2.7	17,545	96.21	
Ti	47	45	NoGas	1.628	ppb	6.7	1,944	90.44	
V	51	74	He	1.710	ppb	0.8	8,769	95	
Cr	52	74	He	1.687	ppb	4.1	8,831	93.72	
Mn	55	74	He	1.732	ppb	2.0	6,723	96.22	
Fe	56	74	H2	77.803	ppb	3.0	1,074,272	86.45	
Co	59	74	He	1.755	ppb	2.7	11,500	97.5	
Ni	60	74	He	1.647	ppb	7.4	2,960	91.5	
Cu	65	74	He	1.879	ppb	4.7	4,153	104.39	
Zn	66	74	He	1.812	ppb	4.7	1,600	100.67	
As	75	74	He	1.827	ppb	5.5	973	101.5	
Se	78	74	H2	1.781	ppb	2.6	519	98.94	
Mo	95	103	He	1.803	ppb	6.5	4,169	100.17	
Ag	107	103	He	1.868	ppb	1.8	12,984	103.78	
Cd	111	103	He	1.856	ppb	2.2	2,073	103.11	
[Cd]	111	103	NoGas	1.895	ppb	4.2	3,712	105.28	
Sb	121	103	He	1.882	ppb	4.7	6,337	104.56	
Ba	138	159	He	1.657	ppb	2.8	15,994	92.06	
Hg	201	159	NoGas	66.434	ppt	8.1	82	92.27	
Tl	205	159	He	1.708	ppb	3.6	30,064	94.89	
Pb	208	159	NoGas	1.816	ppb	3.5	45,945	100.89	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	3.7	997,168	1184450.92333333	84.2	
Sc	45	H2	Analog	2.8	2,438,753	2901323.77666667	84.1	
Sc	45	He	Pulse	1.0	426,304	525306.603333333	81.2	
Sc	45	NoGas	Analog	4.4	3,268,799	3897406.83333333	83.9	
Ge	74	H2	Pulse	3.5	831,139	987432.603333333	84.2	
Ge	74	He	Pulse	0.7	282,622	339353.55	83.3	
Ge	74	NoGas	Pulse	2.9	871,584	1038900.56	83.9	
Rh	103	He	Pulse	1.3	683,552	825137.02	82.8	
Rh	103	NoGas	Pulse	3.5	911,566	1088224.48333333	83.8	
Tb	159	He	Analog	2.4	1,391,630	1515319.94333333	91.8	
Tb	159	NoGas	Analog	3.2	1,844,575	1977780.97666667	93.3	
Bi	209	He	Pulse	0.9	864,786	951105.013333333	90.9	
Bi	209	NoGas	Pulse	4.1	992,092	1103862.58666667	89.9	

CRL Verification Report - ICPMS5

Sample Name:	**0F03039-CRLG**	Total Dilution:	**1.0000**
File Name:	112CRL4.d	Vial:	1105
File Path:	C:\Agilent\ICPMH\1\DATA\0F03039.b	Sample Type:	CRL4
Acq Time:	6/3/2020 19:33:47	I.S. Reference File:	007CALB.d
Comment:	**A20E191 KT 6/3**	Last Calibration:	06/03/2020 11:20:48

Analyte Table:

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	% Rec	Flag
Be	9	6	NoGas	3.554	ppb	4.1	9,323	98.72	
Na	23	45	He	182.130	ppb	1.4	257,285	101.18	
Mg	24	45	He	174.137	ppb	1.1	132,780	96.74	
Al	27	45	He	171.222	ppb	1.5	71,197	95.12	
K	39	45	He	185.206	ppb	1.4	171,641	102.89	
Ca	44	45	H2	1008.333	ppb	0.6	249,285	93.36	
[Ca]	44	45	He	1053.661	ppb	1.5	34,990	97.56	
Ti	47	45	NoGas	3.572	ppb	5.8	4,185	99.22	
V	51	74	He	3.418	ppb	2.1	15,781	94.94	
Cr	52	74	He	3.376	ppb	1.5	17,219	93.78	
Mn	55	74	He	3.415	ppb	1.5	13,083	94.86	
Fe	56	74	H2	167.061	ppb	1.8	2,276,048	92.81	
Co	59	74	He	3.571	ppb	1.0	23,222	99.19	
Ni	60	74	He	3.246	ppb	5.4	5,575	90.17	
Cu	65	74	He	3.845	ppb	2.7	8,148	106.81	
Zn	66	74	He	3.546	ppb	2.5	3,029	98.5	
As	75	74	He	3.682	ppb	1.0	1,918	102.28	
Se	78	74	H2	3.626	ppb	2.4	1,063	100.72	
Mo	95	103	He	3.672	ppb	0.8	8,454	102	
Ag	107	103	He	3.712	ppb	1.9	25,714	103.11	
Cd	111	103	He	3.802	ppb	1.9	4,235	105.61	
[Cd]	111	103	NoGas	3.774	ppb	2.6	7,386	104.83	
Sb	121	103	He	3.879	ppb	2.5	13,010	107.75	
Ba	138	159	He	3.539	ppb	4.9	32,548	98.31	
Hg	201	159	NoGas	143.678	ppt	6.5	165	99.78	
Tl	205	159	He	3.513	ppb	5.1	60,224	97.58	
Pb	208	159	NoGas	3.666	ppb	1.4	91,715	101.83	

ISTD Table:

Name	Mass	Tune Mode	Det.	CPS RSD	CPS	ISTD Ref CPS	ISTD Recovery %	QC Flag
Li	6	NoGas	Analog	4.1	1,007,844	1184450.92333333	85.1	
Sc	45	H2	Analog	1.9	2,504,246	2901323.77666667	86.3	
Sc	45	He	Pulse	1.2	424,254	525306.603333333	80.8	
Sc	45	NoGas	Analog	1.0	3,307,305	3897406.83333333	84.9	
Ge	74	H2	Pulse	1.4	838,759	987432.603333333	84.9	
Ge	74	He	Pulse	0.7	282,518	339353.55	83.3	
Ge	74	NoGas	Pulse	0.8	871,970	1038900.56	83.9	
Rh	103	He	Pulse	0.4	682,054	825137.02	82.7	
Rh	103	NoGas	Pulse	0.5	909,821	1088224.48333333	83.6	
Tb	159	He	Mix	4.3	1,357,475	1515319.94333333	89.6	
Tb	159	NoGas	Analog	1.7	1,828,942	1977780.97666667	92.5	
Bi	209	He	Pulse	0.9	857,931	951105.013333333	90.2	
Bi	209	NoGas	Pulse	1.4	992,499	1103862.58666667	89.9	

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

Metals IFA/IFB Metals Internal Standards Recovery Summary

A20E270 IFA
A20E271 IFB
A0E0669 (I.S Tables)

Analytical Standard Record

Apex Laboratories

A20E270

Description:	ICSA working std	Expires:	08/05/20
Standard Type:	Calibration Standa	Prepared:	05/26/20
Solvent:	3.5% HNO3 + 0.4% HCl	Prepared By:	Kevin Taucher
Final Volume (mls):	50	Department:	Metals
Vials:	1	Last Edit:	06/01/20 13:25 by jsj

Analyte	CAS Number	Concentration	Units
Aluminum	7429-90-5	100	ug/mL
Calcium	7440-70-2	300	ug/mL
Carbon	7440-44-0	200	ug/mL
Chlorine	7782-50-5	2000	ug/mL
Iron	7439-89-6	250	ug/mL
Magnesium	7439-95-4	100	ug/mL
Molybdenum	7439-98-7	2	ug/mL
Phosphorus	7723-14-0	100	ug/mL
Potassium	7440-09-7	100	ug/mL
Sodium	7440-23-5	250	ug/mL
Sulfur	7704-34-9	100	ug/mL
Titanium	7440-32-6	2	ug/mL
Tungsten	7440-33-7	0.1	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
A19K163	6020A ICS Interferents A	11/11/19	Marshall Pattee	10/30/20	03/26/20 16:04 by arf	5
A20A078	Conc. HCl - Omnitrace	01/06/20	Chris R. Lee	01/14/22	03/25/20 15:34 by jsj	0.2
A20B207	Conc. HNO3 - Omnitrace	02/17/20	Chris R. Lee	02/15/22	02/27/20 15:22 by jsj	1.75
A20E268	1 W 10 ppm	05/26/20	Kevin Taucher	08/05/20	06/01/20 13:25 by jsj	0.5

Reviewed By Date

Analytical Standard Record

Apex Laboratories

A20E271

Description:	ICSA+B working std	Expires:	08/05/20
Standard Type:	Calibration Standa	Prepared:	05/26/20
Solvent:	3.5% HNO3 + 0.4% HCl	Prepared By:	Kevin Taucher
Final Volume (mls):	50	Department:	Metals
Vials:	1	Last Edit:	06/01/20 13:25 by jsj

Analyte	CAS Number	Concentration	Units
Aluminum	7429-90-5	100	ug/mL
Arsenic	7440-38-2	0.1	ug/mL
Cadmium	7440-43-9	0.1	ug/mL
Calcium	7440-70-2	300	ug/mL
Carbon	7440-44-0	200	ug/mL
Chlorine	7782-50-5	2000	ug/mL
Chromium	7440-47-3	0.2	ug/mL
Cobalt	7440-48-4	0.2	ug/mL
Copper	7440-50-8	0.2	ug/mL
Iron	7439-89-6	250	ug/mL
Magnesium	7439-95-4	100	ug/mL
Manganese	7439-96-5	0.2	ug/mL
Mercury	7439-97-6	0.002	ug/mL
Molybdenum	7439-98-7	2	ug/mL
Nickel	7440-02-0	0.2	ug/mL
Phosphorus	7723-14-0	100	ug/mL
Potassium	7440-09-7	100	ug/mL
Selenium	7782-49-2	0.1	ug/mL
Silver	7440-22-4	0.05	ug/mL
Sodium	7440-23-5	250	ug/mL
Sulfur	7704-34-9	100	ug/mL
Titanium	7440-32-6	2	ug/mL
Tungsten	7440-33-7	0.1	ug/mL
Vanadium	7440-62-2	0.2	ug/mL
Zinc	7440-66-6	0.1	ug/mL

Reviewed By Date

Analytical Standard Record

Apex Laboratories

A20E271

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
A19K163	6020A ICS Interferents A	11/11/19	Marshall Pattee	10/30/20	03/26/20 16:04 by arf	5
A19K267	6020A & CLP-M ICS Analytes B	11/19/19	Emily S. Stefansson	11/11/20	12/02/19 15:04 by jsj	0.5
A20A078	Conc. HCl - Omnitrace	01/06/20	Chris R. Lee	01/14/22	03/25/20 15:34 by jsj	0.2
A20B207	Conc. HNO3 - Omnitrace	02/17/20	Chris R. Lee	02/15/22	02/27/20 15:22 by jsj	1.75
A20B268	1 Hg Stock 1.00ppm Primary Std	02/20/20	Marshall Pattee	08/19/20	03/25/20 15:34 by jsj	0.1
A20E268	1 W 10 ppm	05/26/20	Kevin Taucher	08/05/20	06/01/20 13:25 by jsj	0.5

Reviewed By Date

		6 Li (ISTD) [NoGas]	45 Sc (ISTD) [H2]	45 Sc (ISTD) [He]	45 Sc (ISTD) [NoGas]	74 Ge (ISTD) [H2]	74 Ge (ISTD) [He]	74 Ge (ISTD) [NoGas]	103 Rh (ISTD) [He]	103 Rh (ISTD) [NoGas]	159 Tb (STD) [He]	159 Tb (ISTD) [NoGas]	209 Bi (ISTD) [He]	209 Bi (ISTD) [NoGas]
Acq. Date-Time	Sample Name	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value	QC Measured Value
6/3/2020 9:58 AM	Rinse													
6/3/2020 10:03 AM	Rinse													
6/3/2020 10:09 AM	Rinse													
6/3/2020 10:15 AM	Rinse													
6/3/2020 10:20 AM	0F03039-CAL0	100	100	100	100	100	100	100	100	100	100	100	100	100
6/3/2020 10:25 AM	0F03039-CAL1	102.824497	95.83490561	100.444929	100.6444363	98.1128537	100.8592316	101.1484588	100.92337	99.49843366	95.04469458	93.29545275	100.9021937	101.9868973
6/3/2020 10:30 AM	0F03039-CAL0	100	100	100	100	100	100	100	100	100	100	100	100	100
6/3/2020 10:35 AM	0F03039-CAL1	96.61083946	103.0104504	99.27844742	101.0649657	101.2327015	99.52452342	99.56643011	98.45608107	99.86049324	99.00764323	101.4794973	99.01694311	101.2379131
6/3/2020 10:41 AM	0F03039-CAL2	102.4519125	104.700316	100.5873909	102.9000113	102.8174551	100.6702744	102.8814137	99.47261567	102.7424525	99.98702716	102.8836646	99.64767928	102.0074205
6/3/2020 10:46 AM	0F03039-CAL3	98.41722582	103.8398958	100.1762672	100.4415955	101.8506856	100.4810047	99.15127584	98.59006043	98.29282619	98.36329262	99.14774722	99.18834374	100.5439391
6/3/2020 10:52 AM	0F03039-CAL4	97.43529264	107.0924748	101.2166317	100.7640526	104.0424133	100.9828963	99.64563339	99.5124438	98.79145156	98.13707989	100.5446216	100.1560136	100.7566337
6/3/2020 10:57 AM	0F03039-CAL5	100.9292306	107.2596255	104.1932622	102.5847308	104.5904149	103.4581859	102.2886178	102.1482679	100.8140496	103.0622943	100.5996102	101.8400418	101.1637067
6/3/2020 11:02 AM	0F03039-CAL6	99.54059585	102.3939229	100.9511518	99.8294891	100.3417928	100.9669738	99.27820747	97.88086751	96.45420096	98.48292038	97.87886152	98.38152782	99.32169697
6/3/2020 11:08 AM	0F03039-CAL7	97.85471764	104.2051793	100.0978286	99.58028862	101.6079784	101.443692	98.54502854	97.61787644	96.65022944	97.68753346	98.24200958	98.60061895	99.65471065
6/3/2020 11:13 AM	0F03039-CAL8	97.6274914	100.6107622	98.95378179	96.47405461	97.92770397	98.84154839	95.06671136	95.24668005	93.26992076	96.65445592	96.44689575	95.80541727	94.53595231
6/3/2020 11:18 AM	0F03039-CAL9	94.37141587	100.0421406	98.66755403	95.69019845	94.47480333	95.09620866	90.75493905	89.53582481	86.11483608	94.46114177	92.46974797	87.88703718	85.89526705
6/3/2020 11:24 AM	0F03039-ICV1	101.7773805	109.6496408	100.9727589	100.9190442	104.0729997	100.7794987	100.1979862	98.21229166	98.70509438	99.34451621	98.12121107	98.15631925	97.70096626
6/3/2020 11:29 AM	0F03039-ICB1	105.0642923	108.683086	102.6060419	104.413675	105.2393034	102.2856762	102.0429944	100.2738297	101.7888797	98.59439409	100.0857161	98.42116383	98.95555508
6/3/2020 11:34 AM	0F03039-CRL1	103.2079016	113.9362077	104.339196	102.9652043	108.3940642	103.5629783	102.404062	101.3904822	100.6187173	98.41801242	99.96489921	98.49642856	98.30716671
6/3/2020 11:39 AM	0F03039-CRL2	105.9601591	113.1517837	106.8696877	107.3706935	109.0495554	105.3689208	105.3011278	103.0826573	104.6766184	101.3904173	103.6054375	99.82507154	101.3811867
6/3/2020 11:44 AM	0F03039-CRL3	103.4331227	110.1881258	107.1354176	105.0949923	110.1430474	105.8254241	104.1595165	103.7257028	102.8374283	102.4477035	100.1287279	100.4036585	99.88396593
6/3/2020 11:49 AM	0F03039-CRL4	104.2323085	111.4417298	109.142516	105.571154	107.692629	106.681157	104.2501373	104.5248509	102.2015638	102.0254053	99.97707599	102.0654785	100.4549114
6/3/2020 11:54 AM	0F03039-IFA1	82.67592441	91.43709611	84.19484047	79.60870871	81.57617616	79.81096608	74.47100231	71.59311109	69.83335592	78.43998217	79.20941071	72.24019819	72.38554988
6/3/2020 11:59 AM	0F03039-IFB1	81.87186295	88.39567628	80.71642046	76.5965381	78.68399599	77.0429681	73.36265818	70.3627974	68.72112983	77.15817784	78.04945567	71.7541956	71.2155365
6/3/2020 12:05 PM	Rinse	90.9683752	86.19058434	80.01374892	86.01291226	86.00693561	81.93634338	85.57583638	83.31251699	87.66458434	85.25187034	91.38191883	87.8557251	90.95825532
6/3/2020 12:10 PM	0060080-BLK1	92.00802402	85.74223406	84.67349617	84.64386401	85.72330646	85.67014352	86.46854228	84.61275357	86.35358829	90.39597541	90.52488038	89.72396858	90.07044101
6/3/2020 12:15 PM	0060080-BS1	92.513969	89.0784314	87.35918359	88.86426441	87.05770302	88.05445236	87.33620762	86.616117	86.5432241	91.81566195	91.66379348	91.58139965	89.9805506
6/3/2020 12:20 PM	A0E0800-01	91.29932236	91.81931152	85.02803325	87.85704264	88.37016559	86.44979648	87.3856461	84.5310854	87.53022358	88.0186746	92.43884577	89.85245106	90.26243079
6/3/2020 12:25 PM	0060080-MS1	92.09501425	89.37171775	88.47232715	90.6471326	86.97063379	88.90376816	88.85380009	86.23348156	87.71970011	92.41648864	93.06991312	91.62655449	91.07823433
6/3/2020 12:30 PM	0060108-BLK1	91.01664229	88.40321111	83.93752154	89.83549532	87.15045197	85.03348302	87.23590639	84.49013717	88.17786875	88.88628499	94.63449705	89.26455874	91.33313532
6/3/2020 12:35 PM	0060108-BS1	93.23159884	92.41853511	87.47316654	91.55804836	89.2260586	88.60330571	90.26527877	86.33915371	89.78104533	90.84258428	94.15999557	91.33208228	92.07572322
6/3/2020 12:40 PM	A0E0653-02	94.37469853	100.9019995	94.00491387	94.03468708	95.19853914	93.00496193	91.44690133	90.80391077	91.62950034	94.47869846	94.51126247	92.49549885	93.44565249
6/3/2020 12:46 PM	0060108-DUP1	85.09776613	85.89785325	77.26003394	82.10019628	82.10206455	78.79603342	81.21940243	79.44524939	82.36918734	83.49463572	88.00695075	86.03874425	88.82735724
6/3/2020 12:51 PM	0060108-MS1	82.50125303	82.71085677	76.80431595	78.74354439	80.23623189	78.66275747	78.26275629	78.21728323	78.39190379	83.82271671	85.8166735	85.76707884	86.80046516
6/3/2020 12:56 PM	0060108-MSD1	80.40956513	80.13805912	74.01867167	77.93726649	78.19302375	75.35261382	77.11561121	75.87131771	78.02967491	80.01646596	86.99878181	85.76422602	86.94455979
6/3/2020 1:01 PM	0F03039-CCV1	84.92102376	78.9062174	75.70051232	81.16312021	77.90287567	78.18499418	80.91789298	77.56728493	80.11392778	83.090897	88.45110289	86.08254559	87.68363125
6/3/2020 1:06 PM	0F03039-CCB1	86.00223473	84.80181747	79.01288581	84.9236905	83.05480501	80.80847737	83.53758034	81.42691057	84.837274	86.37566734	92.08481364	88.38397179	90.15437296
6/3/2020 1:11 PM	0060114-BLK1	85.77602021	89.23312079	80.79557868	85.06567311	84.56499686	82.00579897	83.6351046	82.25960459	84.45847808	88.01358568	90.76944639	87.57117651	88.36137684
6/3/2020 1:16 PM	0060114-BS1	89.10215126	89.57459319	84.3997297	87.75952113	86.75018499	86.03959565	85.7404641	84.9047336	85.47608184	89.47205281	92.48278609	90.37808878	90.21429632
6/3/2020 1:22 PM	A0F0063-01	88.75989197	94.640465	90.27422785	93.62473552	85.99993665	85.680914	85.53594998	83.61451451	84.66266236	88.61211539	93.03330846	88.52205048	88.93666681
6/3/2020 1:27 PM	A0F0063-02	91.61493695	96.76882047	92.69729657	97.65036222	89.04432941	88.85509326	91.35590866	86.79587018	89.70013984	93.94981895	96.62483422	90.14510504	91.17161763
6/3/2020 1:32 PM	A0F0063-03	96.69559265	100.737823	98.38187198	101.8528031	92.58867258	93.38463283	94.1686684	90.26593789	92.52514183	96.20483976	97.36009124	91.8139085	91.41679972
6/3/2020 1:37 PM	0060114-DUP1	96.83365888	106.4094364	100.8864537	104.0515064	96.20855811	96.37750069	96.17182803	92.64210163	94.45412802	97.41720639	98.90297155	92.56485432	92.6397427
6/3/2020 1:42 PM	0060114-MS1	96.29314457	107.3573898	99.50013446	101.448132	96.94815863	95.0606538	94.48864063	91.52505322	93.44411185	95.88607319	99.46076806	91.4210325	91.8118045
6/3/2020 1:47 PM	0060114-MSD1	100.261101	109.6043383	101.0989665	104.5782321	103.3753916	100.5614292	101.6499956	97.12375326	102.5415498	97.87910466	100.9176082	96.01243507	96.13360934
6/3/2020 1:52 PM	0F03039-CCV2	99.5997096	104.7903611	100.039874	100.6941832	100.5503903	100.6539581	99.63687734	97.2086127	98.12229061	98.27825491	98.8448008	95.98264516	95.32015573
6/3/2020 1:57 PM	0F03039-CCB2	103.3012652	104.9452377	103.2401725	105.2801063	101.5641638	102.5658275	105.5666529	100.1493061	103.8958852	100.1728858	99.99941264	95.66974407	95.26839748
6/3/2020 2:02 PM	0F03039-CRL5	104.2725006	108.8808418	106.0703063	108.148638	104.8415362	105.065099	105.1184411	101.6119723	105.896666	103.6980446	102.1321778	96.04613516	96.52659001
6/3/2020 2:07 PM	0F03039-CRL6	102.6030821	109.0332076	105.7626987	105.9897061	104.7831899	104.5510962	104.3394111	100.6674491	102.9690865	100.6860395	101.4136941	95.60429577	95.99176922
6/3/2020 2:15 PM	0F03039-CRL7	104.7610879	110.33342	107.8910183	107.4547185	106.5487929	106.0926704	105.577237	102.0003239	104.1972979	102.1380077	101.6031962	97.23104323	97.99469183
6/3/2020 2:21 PM	0F03039-CRL8	103.877355	112.755992	106.9693495	108.1133998	107.1082094	105.8395077	104.780129	101.4779994	102.7763368	101.8997786	102.552587	97.51988305	97.38103755
6/3/2020 2:26 PM	0060134-BLK1	105.7285013	109.3754185	107.3806427	108.1258004	103.3443822	105.0562282	104.5430575	99.64246696	102.5790772	101.940764	101.3642753	95.97131693	94.77295145
6/3/2020 2:31 PM	0060134-BS1	102.4841367	113.6017124	105.1329998	105.0266028	106.0402431	103.5832099	102.2458829	97.66126156	99.87672236	99.46641038	100.0857513	95.29111864	94.93532703
6/3/2020 2:36 PM	A0E0631-02	102.3977937	106.4174332	105.084226	104.875874	102.5740005	102.6041582	101.3259729	97.5191161	99.59860917	99.44551952	99.04899395	94.3859907	93.29655573
6/3/2020 2:41 PM	0060134-MS1	100.6835125	105.3310734	104.1493818	101.8400637	100.7712088	101.6890231	99.08998766	97.7322736	97.37819046	99.84667924	98.75510904	95.11558983	93.3900565
6/3/2020 2:46 PM	0060121-BLK1	102.4528395	107.3377638	101.8615237	103.8406049	101.4859093	100.4258342	100.0891301	97.61122139	98.55571864	98.0839735	98.63410524	93.40600714	93.24853073
6/3/2020 2:51 PM	0060121-BS1	100.3162326	104.6732499	102.2162892	104.9376906	101.3029976	101.6636524	101.5509004	97.23933689	98.96942342	98.69475441	100.5401117	94.23702579	95.31852781
6/3/2020 2:56 PM	A0E0653-01	104.4662053	109.066041	105.5837695	107.3537429	103.4012856	103.1978586	103.2504385	100.8985259	102.8387047	101.8501615	103.0457316	96.97087182	98.14137585
6/3/2020 3:01 PM	A0E0669-01	95.80662237	102.6847909	96.93193336	99.64562189	97.22877188	95.78802304	95.81584562	92.73547643	93.5695523	96.22344507	97.15525747	93.18923858	92.39683958
6/3/2020 3:06 PM	A0E0707-02	93.03079722	99.55453415	91.11134856	94.6999933	92.73252712	90.97138171	90.25592786	86.25979881	86.30672847	92.77410355	92.36117741	89.25201544	88.07485537
6/3/2020 3:11 PM	A0E0707-03	93.89826612	100.2458516	95.25606763	97.42488349	92.62415111	93.20439111	91.65133604	87.49306752	87.18335244	94.44475008	92.99377375	88.3607276	87.96739
6/3/2020 3:17 PM	0F03039-CCV3	96.87758556	105.8729082	97.89708653	97.19176541	100.0802663	96.42331722	94.30252401	92.55163262	92.31983587	93.6622359	95.28148156	93.10882895	92.75503935
6/3/2020 3:22 PM	0F03039-CCB3	97.81504525	101.4487616	96.26931271	98.60681699	96.94221629	95.46944183	95.21640968	92.76066659	93.66722635	97.2966329	98.79734829	91.85261295	92.8311077
6/3/2020 3:29 PM	0F03039-CRL9	97.60640765	103.9133788	99.07750826	99.34905513	98.24769543	97.10989124	94.98100473	94.14346238	92.95906058	98.04408984	97.05533488	92.90626947	92.0699719
6/3/2020 3:34 PM	0F03039-CRLA	98.82740154	100.5690865	97.37798397	98.79536115	97.6623164	95.77974161	95.6138189	92.5912927	93.67042912	97.49761889	96.78967334	92.18381928	92.40634468
6/3/2020 3:39 PM	0F03039-CRLB	97.00748119	105.0152753	97.74341944	99.1178797	99.19909741	96.38785273	95.5152275	93.45913038	93.2635823	97.49176314	96.79283631	93.65280919	93.33743793
6/3/2020 3:44 PM	0F03039-CRLC	97.07805144	101.5251336	96.32305149	95.87915324	97.14369772	95.34910322	93.8595339	92.8997431	91.24285095	96.22925947	94.64771152	93.41085694	91.74892529
6/3/2020 3:49 PM	0060121-DUP1	89.72484035	97.51641392	88.98827219	90.46502322	89.19563256	87.47675495	85.59251972	82.68675426	81.13045487	85.78164229	89.73734475	84.9323326	85.07118078
6/3/2020 3:54 PM	0060121-MS1	90.66755199	95.31540598	88.66052582	90.8339049	88.34750784	87.71687424	85.81663838	81.72008773	81.08038034	85.87087911	90.66773206	85.21495019	85.0044886
6/3/2020 3:59 PM	A0E0707-04	89.48377253	94.47164114	88.23931086	90.20403712	87.16496401	86.52474483	85.92137153	81.84188895	81.30324091	85.98278177	90.65277607	85.44575915	85.09139568
6/3/2020 4:04 PM	A0E0765-01	87.35792309	105.3578607	90.21013322	95.55201717	86.64193895	84.26108012	83.50521985	78.83314741	79.63877787	86.93532648	92.55027907	83.43912069	83.68748953
6/3/2020 4:09 PM	A0E0794-01	87.66279797	94.60595489	87.00636234	88.25513725	86.47217107	85.76229422	82.79038884	79.18998431	77.71504436	86.0445597	87.65659058	83.64681735	81.30820426
6/3/2020 4:14 PM	A0E0794-02	89.14388874	95.19578737	88.63146342	91.37255631	84.69470225	85.92539452	84.93042427	79.78191711	80.26137285	86.71573127	89.22779506	81.82351921	80.09746539
6/3/2020 4:19 PM	A0E0794-03	92.25046716	91.43375177	91.3302746	92.76355881	83.64124234	87.79165171	86.03169008	79.94849389	80.93448305	84.48869708	88.44507863	81.13516901	79.78133395
6/3/2020 4:25 PM	A0E0794-04	96.47726167	91.14994994	93.0201155	97.18673788	82.12805484	88.39976381	88.6302596	79.13086605	81.88125462	84.71317706	87.81763841	78.0660498	77.99218644
6/3/2020 4:30 PM	A0F0006-01	92.68298937	91.8012678	89.93955334	93.93878229	83.54893291	85.1225789	83.56865358	76.38187453	77.34470441	79.91198088	84.74959309	75.75383859	74.75421065
6/3/2020 4:35 PM	0060106-BLK1	96.41481867	97.06694473	91.32223866	91.70070484	91.292284609	90.165581	89.2907447	88.78160139	89.52958225	92.30771997	92.59795877	89.95809765	88.55685437
6/3/2020 4:40 PM	0F03039-CCV4	91.62628258	86.8900794	84.9473096	87.4232436	85.12875213	86.66677373	86.85690412	84.46521524	86.30134662	91.46684387	93.28777007	89.80940114	88.80171697
6/3/2020 4:45 PM	0F03039-CCB4	91.78813648	88.94764707	84.70128946	89.11765964	85.6362352	85.05963292	86.98850222	84.48839281	87.53083069	88.1693761	93.35128452	88.49646094	88.66605667
6/3/2020 4:50 PM	0060106-BS1	91.61324813	88.67910345	85.18030305	89.03992984	86.16853685	86.2528768	87.49829724	84.60207777	87.26336351	91.04758543	92.97591653	90.22452775	89.27026261
6/3/2020 4:55 PM	A0E0657-01	88.65582406	85.99505624	82.78203572	87.06310525	84.33344654	84.06968681	85.45418245	82.18294541	85.04503567	87.47411743	91.2098563	88.71806143	88.95166378
6/3/2020 5:00 PM	A0E0802-01	84.39843224	87.40484316	81.17137001	84.71908796	82.29120387	81.94195012	81.22338035	78.4751283	79.15300533	86.49275548	89.1999696	85.49160803	84.13606288
6/3/2020 5:05 PM	A0E0802-02	86.76394182	88.53566743	82.42411205	85.2706128	83.7372553	83.27060475	82.66550169	79.36548971	80.44934969	86.65691685	88.87171502	85.86769549	84.30162696
6/3/2020 5:10 PM	A0E0802-03	88.41452125	87.49860726	82.78031863	87.39796236	82.61262834	83.6910764	85.65359422	79.91872111	82.70573647	89.21066313	92.13843451	85.84143341	86.90980093
6/3/2020 5:16 PM	0060106-DUP1	88.63047814	87.18299409	83.59681575	88.2804124	83.16253186	83.89487797	84.86834905	80.0733358	82.25899163	87.0222243	92.61273948	86.11393083	86.2969354
6/3/2020 5:21 PM	0060106-MS1	86.0889002	90.63062998	83.1416346	86.93623337	85.42441349	84.35107083	83.78810737	79.92610892	80.37027777	88.97945827	90.56859688	85.76725863	84.36441678
6/3/2020 5:26 PM	A0E0802-04	88.91223288	92.12478576	84.62557241	88.65437801	86.63092385	85.51879989	85.15685948	81.61153526	82.0645875	91.4283906	92.91547775	87.73648037	86.70849387
6/3/2020 5:31 PM	A0E0802-05	88.10793784	90.8201082	83.57403223	89.82242227	85.40329812	84.45446349	85.14137035	79.75751631	82.52612677	90.4906533	94.53588232	86.03095156	86.82670243
6/3/2020 5:36 PM	A0E0802-06	85.42223574	87.88212047	82.42013786	86.19319264	83.6304524	83.54196088	82.80756534	79.28399698	79.99991822	87.58850493	90.19697956	86.3203609	84.90840327
6/3/2020 5:41 PM	0F03039-CCV5	91.69064827	93.59866205	88.56986575	91.89174469	90.88698141	90.33396979	90.75782896	87.55198339	89.90067996	93.55366829	96.37931243	92.80452922	92.61830947
6/3/2020 5:46 PM	0F03039-CCB5	95.14579466	92.9719055	89.57092303	94.21543145	91.27633795	90.35245788	92.25726217	89.0861782	92.43285328	95.16208022	97.35499815	92.64816303	93.57069039
6/3/2020 5:51 PM	A0E0807-01	86.83018573	85.88678669	83.17752285	86.41906796	80.74591933	83.32509168	82.07756862	78.8809667	78.47097969	88.24329744	88.6128356	84.74181631	82.44698368
6/3/2020 5:56 PM	A0E0807-02	85.75116143	88.56310812	81.54169025	88.2265355	82.53718082	81.9412203	83.2366157	77.89751452	80.89271317	84.49634937	92.22149191	84.86691782	85.76124825
6/3/2020 6:01 PM	A0E0807-03	87.8942968	87.41982138	82.45964876	87.26336807	83.92068993	83.35223348	84.33770793	80.38522418	82.59394244	90.69870532	92.99481751	88.05235015	87.89516513
6/3/2020 6:06 PM	A0E0807-04	84.47280961	92.0028382	82.39644376	85.53390633	82.93300598	81.62750913	80.8033963	76.24158834	77.32480258	85.37146863	88.63262923	82.1969382	82.73082064
6/3/2020 6:11 PM	A0E0807-05	84.57057699	87.90435239	82.19069472	86.20355218	81.21126316	82.57692309	82.64765269	79.29418599	79.69909793	87.1192245	91.7048951	84.79190577	83.83495595
6/3/2020 6:16 PM	A0E0807-06	86.96368191	86.46424287	81.99209134	85.55267599	83.33320612	83.80781636	83.61074262	79.53971774	80.85275083	86.42097262	90.80966301	86.69704135	86.02304352
6/3/2020 6:22 PM	A0F0010-01	87.85238286	89.12187065	84.58401383	87.10959804	87.96370578	86.91657123	86.66594905	84.27342124	85.00536922	90.38083713	92.59413445	90.54068842	89.80064264
6/3/2020 6:27 PM	A0F0010-02	89.26055996	91.40026487	84.73840493	88.76680841	87.80862819	87.31866024	88.37046605	83.9449974	86.51155845	92.1292316	94.26622	90.93654306	90.76980977
6/3/2020 6:32 PM	A0F0010-03	88.35821134	90.67286117	83.92300748	87.25441955	87.58858854	86.04789312	86.16111568	83.05539121	84.26560825	92.07994211	93.78956493	90.33842544	88.94819384
6/3/2020 6:37 PM	A0F0010-04	83.26032121	79.00174781	80.84002383	82.24929414	76.56288177	79.89299557	78.66607272	75.42969934	76.36249868	85.97304411	88.14531608	80.87456266	79.22569686
6/3/2020 6:42 PM	0F03039-CCV6	82.56860295	83.18190439	75.95570995	81.24234614	82.24253827	79.90185555	81.56853273	78.73056768	82.16925249	84.79969169	91.63304387	87.84875189	88.92432583
6/3/2020 6:47 PM	0F03039-CCB6	85.10393523	81.15075179	77.73454031	84.233911	80.86775752	80.82554708	83.88887511	80.81923331	85.37940234	87.98994645	95.14407049	89.34767995	90.2667695
6/3/2020 6:52 PM	A0F0011-01	81.37421802	81.28125624	76.61665158	81.79211186	80.07360779	80.1745397	81.16573223	77.92847423	80.15272094	88.33100028	92.6446874	87.95953951	86.9259832
6/3/2020 6:57 PM	A0F0012-01	82.98495733	81.24590835	77.22065503	81.3854093	80.55376613	80.30071784	81.56174928	80.18613078	81.85661448	85.77992956	92.45899158	89.80708909	89.17499713
6/3/2020 7:02 PM	0060106-MS2	81.66847054	81.91768803	78.2972409	82.38442997	81.05146153	81.31481754	81.679861	80.17127426	81.78275931	88.7519292	91.7187662	89.57551354	88.39164601
6/3/2020 7:08 PM	0F03039-CCV7	84.86851391	85.81906611	79.04967893	83.32272275	84.35869552	82.85673648	83.5787325	81.13931591	83.0822752	89.50283883	92.4843444	90.43220793	90.45002842
6/3/2020 7:13 PM	0F03039-CCB7	85.70449396	87.95458498	80.37862155	85.01199571	85.92167477	83.09831246	84.01911889	82.92692164	84.52136951	91.56997236	93.71296197	90.95442927	89.9257503
6/3/2020 7:18 PM	0F03039-CRLD	84.74089163	85.91813273	80.12207867	85.07895451	84.52545154	83.29389904	84.25332802	82.38170795	84.91365193	90.3609052	94.76081538	90.43763741	90.35605265
6/3/2020 7:23 PM	0F03039-CRLE	83.30623672	88.27912212	78.34235677	82.62772807	86.5789257	81.50700747	82.92996942	80.50919147	82.54240589	87.70285152	91.68743631	88.18291092	88.86623829
6/3/2020 7:28 PM	0F03039-CRLF	84.18816745	84.05655479	81.15328914	83.87113474	84.17167449	83.28254412	83.89485644	82.84103409	83.76636291	91.83739158	93.26487674	90.92432044	89.87460263
6/3/2020 7:33 PM	0F03039-CRLG	85.08955107	86.31392424	80.76317094	84.85910456	84.94340446	83.25191038	83.93198543	82.65953696	83.60603233	89.58340598	92.47443549	90.20360331	89.91143723
6/3/2020 7:38 PM	Rinse	84.05492484	86.80868932	81.32421281	85.81291937	84.58721914	83.15613417	84.39032285	82.33431178	84.47199122	88.52451057	92.39570668	89.79184261	89.84623044
6/3/2020 7:44 PM	Rinse	84.12304923	87.65487983	80.79452913	85.65399626	85.15259916	82.46140444	83.65429411	81.97520455	84.00851485	92.13664521	93.30342027	89.81379708	89.52155869

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

Total Solids by SM2540G
Benchsheet Data

Batch 0050901 (A0E0669-01)

APEX LABORATORIES

PREPARATION BENCH SHEET 0050901

MAY 2 9 2020

Apex Laboratories

BATCH #: 0050901 (Matrix: Water)

Total Suspended Solids (TSS) Worksheet

#	Lab Number	Reference	QC Source ID	Prepared (Time In)	Due Date	Initial Amount (mL)	Tare Wt. (g)	Dry Weight (+Tare) (g)	TSS mg/L (Calc)	Client / Sample
	0050901-BLK1			05/26/20 10:53		100	0.1121 -	0.1121 -	0.0 -	
	0050901-SRM1	A20E005 ✓		05/26/20 10:53		100	0.1113 -	0.1204 -	91.0 -	
	A0E0524-01			05/26/20 10:53	06/02/20	100	0.1115 -	0.1127 -	12.0 ✓	Lagoon Effluent
	A0E0527-01			05/26/20 10:53	06/02/20	10 ✓	0.1125 -	0.1153 -	280.0 ✓	DP-1
	A0E0527-02			05/26/20 10:53	06/02/20	100	0.1124 -	0.1139 -	15.0 -	DP-2
	A0E0528-01			05/26/20 10:53	06/02/20	100	0.1128 -	0.1195 ✓	67.0 ✓	Influent
	A0E0528-02			05/26/20 10:53	06/02/20	100	0.1114 -	0.1121 ✓	7.0 -	Effluent
	A0E0570-01			05/26/20 10:53	06/03/20	100	0.1117 -	0.1144 -	27.0 -	HPW 052020 (ODOT)
	0050901-DUP1		A0E0570-01	05/26/20 10:53		100	0.1124 -	0.115 -	26.0 -	
	A0E0572-01			05/26/20 10:53	05/27/20	50 ✓	0.1127 -	0.1223 -	192.0 ✓	Influent 5-19-20
	A0E0573-01			05/26/20 10:53	06/03/20	50 ✓	0.1117 -	0.1179 -	124.0 -	Wastewater Comp
	A0E0574-01			05/26/20 10:53	06/03/20	100	0.1123 -	0.1139 -	16.0 -	ON-PWW-Comp
	A0E0575-01			05/26/20 10:53	06/03/20	100	0.1123 -	0.1142 -	19.0 -	CE(333-02)-Comp
	A0E0578-01			05/26/20 10:53	06/03/20	100	0.1134 -	0.1137 -	3.0 ✓	EFF
	A0E0578-02			05/26/20 10:53	06/03/20	100	0.1121 -	0.114 -	19.0 -	INF
	A0E0583-01			05/26/20 10:53	05/27/20	100	0.1125 -	0.1139 -	14.0 -	T6-20040RMCS
	A0E0584-01			05/26/20 10:53	06/03/20	50 ✓	0.1119 -	0.1194 -	150.0 -	Waste Water
	A0E0619-01			05/26/20 10:53	05/28/20	50 ✓	0.113 -	0.1238 -	216.0 -	Influent 5/20/20
	A0E0628-01			05/26/20 10:53	06/04/20	100	0.1121 -	0.1205 -	84.0 -	LPR-051920-A1
	A0E0628-06			05/26/20 10:53	06/04/20	100	0.1121 -	0.1138 -	17.0 ✓	LPR-051920-B1
	A0E0635-01			05/26/20 10:53	06/04/20	100	0.1119 -	0.1122 -	3.0 -	EFF052020
	A0E0650-01			05/26/20 10:53	06/02/20	100	0.1129 -	0.1138 -	9.0 -	Lagoon Effluent
	A0E0669-01			05/26/20 10:53	06/05/20	100	0.1122 -	0.113 -	8.0 -	PDI-026SW-A-200521-01

MAS 5/27/20

Prepared By: Date

CMR 5/27/2020

Reviewed By: Date

APEX LABORATORIES

Apex Laboratories
BATCH #: 0050901 (Matrix: Water)
Total Suspended Solids (TSS) Worksheet

#	Lab Number	Reference	QC Source ID	Prepared (Time In)	Due Date	Initial Amount (mL)	Tare Wt. (g)	Dry Weight (+Tare) (g)	TSS mg/L (Calc)	Client / Sample
	0050901-DUP2		A0E0669-01	05/26/20 10:53		100	0.1121	0.1132	11.0	

Reagents

Standard ID	Exp. Date	Description
A13L220	11/30/23	Wet Chem Balance 1
A18H345	08/30/29	PRE003V
A20D417	04/29/25	Whatman 934-AH RTU Glass MicroFiber Filter,

Reference

Standard ID	Exp. Date	Description
A20E005	04/30/22	Solids Standard

Prepared By: Date

Reviewed By: Date

Batch #: 0050901

Solids Worksheet

Method: TSS

Date: 05/26/20

Analyst: mas

Sample ID	Sample Vol. (mL)	Vessel ID	Initial Weight (g)	Final Weight (g) 1st weighing	2nd Weighing	3rd Weighing	4th Weighing	Comments
0050901-BLK1	100	48	0.1121	0.1121				
0050901-SRM1	100	49	0.1113	0.1204	0.1209			
A0E0524-01	100	50	0.1115	0.1127	0.1127			
A0E0527-01	10	72	0.1125	0.1155	0.1153			
A0E0527-02	100	11	0.1124	0.1139	0.1139			
A0E0528-01	100	53	0.1128	0.1195	0.1195			
A0E0528-02	100	54	0.1114	0.1122	0.1121			
A0E0570-01	100	55	0.1117	0.1144	0.1145			
0050901-DUP1	100	57	0.1124	0.1151	0.1150			A0E0570-01
A0E0572-01	50	56	0.1127	0.1228	0.1223			
A0E0573-01	50	58	0.1117	0.1183	0.1179			
A0E0574-01	100	59	0.1123	0.1144	0.1139			
A0E0575-01	100	60	0.1123	0.1147	0.1142			
A0E0578-01	100	61	0.1134	0.1141	0.1137			
A0E0578-02	100	62	0.1121	0.1142	0.1140			
A0E0583-01	100	63	0.1125	0.1139	0.1141			
A0E0584-01	50	64	0.1119	0.1198	0.1194			
A0E0619-01	50	65	0.1130	0.1243	0.1238			
A0E0628-01	100	66	0.1121	0.1210	0.1205			
A0E0628-06	100	67	0.1121	0.1141	0.1138			
A0E0635-01	100	68	0.1119	0.1125	0.1122			
A0E0650-01	100	69	0.1129	0.1140	0.1138			
A0E0669-01	100	70	0.1122	0.1134	0.1130			
0050901-DUP2	100	71	0.1121	0.1134	0.1132			A0E0669-01
Date/time first in oven: 5-26-20/15:40		**Oven temp. (°C; in/out):**		**104.0/103.6**	**103.0/103.6**	/	/	
		Time of weighing:		10:27 5/27	12:49 5/27			

Batch #: 0050901

Solids Worksheet

Method: **TSS**

Date: 05/26/20

Analyst: mas

Page : 1 of ____

Sample ID	Sample Vol. (mL)	Vessel ID	Initial Weight (g)	Final Weight (g) 1st weighing	2nd Weighing	3rd Weighing	4th Weighing	Comments
0050901-BLK1	100	48	0.1121					
0050901-SRM1	100	49	0.1113					
A0E0524-01	100	MAS 5-26-20 50	0.1115					
A0E0527-01	10 ~~100~~	72 ~~51~~	0.1125 ~~0.1110~~	MAS				
A0E0527-02	100	11 ~~52~~ ~~52~~	0.1124 ~~0.1118~~	5-26-20				
A0E0528-01	100	53	0.1128					
A0E0528-02	100	54	0.1114					
A0E0570-01	100	55	0.1117					
0050901-DUP1	100	57 56	0.1124 0.1127	MAS				A0E0570-01
A0E0572-01	50 ~~100~~	56 57	0.1127 0.1124	5-26-20				
A0E0573-01	50 ~~100~~	58	0.1117					
A0E0574-01	100	59	0.1123					
A0E0575-01	100	60	0.1123					
A0E0578-01	100	61	0.1134					
A0E0578-02	100	62	0.1121					
A0E0583-01	100	63	0.1125					
A0E0584-01	50 ~~100~~	64	0.1119					
A0E0619-01	50 ~~100~~	65	0.1130					
A0E0628-01	100	66	0.1121					
A0E0628-06	100	67	0.1121					
A0E0635-01	100	68	0.1119					
A0E0650-01	100	69	0.1129					
A0E0669-01	100	70	0.1122					
0050901-DUP2	100	71	0.1121					A0E0669-01
Date/time first in oven: 5-26-20/ 1540		**Oven temp. (°C; in/out):**		104.0 /	/	/	/	
		Time of weighing:						

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

pH by SM4500-H+ B (Aq)
Benchsheet Data

Batch 0050837 (A0E0669-01)

APEX LABORATORIES

MAY 29 2020

0050837

pH PREPARATION BENCH SHEET

Apex Laboratories
BATCH #: 0050837 (Water)
Prep Method: Method Prep: Aq

Orde	Lab Number	Std ID / TV (SU)	Analyzed	Source ID	pH (SU)	Temp (deg C)	ClientID / Sample	Comments
	CAL STD 1	(4)	5/22/20@851		4.00	21.0°C		Slope = 98.4% ✓
	CAL STD 2	(7)	5/22/20@850		7.01	20.9°C		
	CAL STD 3	(10)	5/22/20@849		10.01	21.0°C		
	0050837-SRM1	A19D020 (6)	5/22/2020@853		6.01	21.0°C		
	0050837-SRM2	A19D021 (8)	5/22/2020@854		7.96	21.0°C		

SRM 3 (6) 5/22/20@1617 - 6.03 - 21.8°C -

A0E0541-01 5/22/20@1622 - 8.35 - 18.4°C -

A0E0541-01 dup 5/22/20@1624 - 8.36 - 18.3°C -

A0E0541-02 5/22/20@1625 - 8.14 - 19.7°C -

A0E0541-02 dup 5/22/20@1626 8.13 - 19.2°C

A0E0669-01 5/22/20@1630 - 7.59 - 19.6°C -

A0E0669-01 dup 5/22/20@1636 7.52 - 19.6°C

SRM 4 (8) 5/22/20@1638 - 7.99 - 21.8°C -

Reagent(s)

Std ID	Exp. Date	Description
A19B222	06/24/20	pH 4 Buffer
A19B231	11/13/20	pH 7 Buffer ✓
A19B234	07/22/20	pH 10 Buffer
A19E295	05/23/29	pH Meter 3 (Orion Star A215)

Prepared By: [signature] Date: 5/22/20

Reviewed By: [signature] Date: 5/26/2020