Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151614

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

May 03, 2018

Jim Ryan
Anchor QEA
290 Elwood Davis Road
Suite 340
Liverpool, NY 13088

RE: Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: David Blye, Environmental Standards Inc.
Mark Meyers, Anchor QEA, LLC
Meg Michell, Environmental Standards Inc.

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151614001	**SW1-170613-01-YP-01**	Tissue	06/13/17 16:15	06/14/17 09:50
40151614002	**SW1-170613-01-SMB-03**	Tissue	06/13/17 16:11	06/14/17 09:50
40151614003	**SW1-170613-01-SMB-02**	Tissue	06/13/17 16:08	06/14/17 09:50
40151614004	**SW1-170613-01-SMB-01**	Tissue	06/13/17 16:05	06/14/17 09:50
40151614005	**SW1-170613-01-LMB-02**	Tissue	06/13/17 16:13	06/14/17 09:50
40151614006	**SW1-170613-01-LMB-01**	Tissue	06/13/17 16:09	06/14/17 09:50
40151614007	**SW1-170613-01-BB-04**	Tissue	06/13/17 16:37	06/14/17 09:50
40151614008	**SW1-170613-01-BB-03**	Tissue	06/13/17 16:28	06/14/17 09:50
40151614009	**SW1-170613-01-BB-02**	Tissue	06/13/17 16:26	06/14/17 09:50
40151614010	**SW1-170613-01-BB-01**	Tissue	06/13/17 16:24	06/14/17 09:50

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151614001	**SW1-170613-01-YP-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151614002	**SW1-170613-01-SMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40151614003	**SW1-170613-01-SMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40151614004	**SW1-170613-01-SMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40151614005	**SW1-170613-01-LMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151614006	**SW1-170613-01-LMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151614007	**SW1-170613-01-BB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151614008	**SW1-170613-01-BB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151614009	**SW1-170613-01-BB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151614010	**SW1-170613-01-BB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 03, 2018

General Information:
10 samples were analyzed for EPA 8082A Mod. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 284104

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DUP (Lab ID: 1662969)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1662968)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 284104

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40151616010

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1662968)
  - PCB-1242 (Aroclor 1242)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 03, 2018

QC Batch: 284719

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157487017

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1666456)
  - PCB-1242 (Aroclor 1242)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 283977

1q: Sample was re-analyzed due to incorrect dilution.

- MS (Lab ID: 1662165)
  - PCB-1016 (Aroclor 1016)

QC Batch: 284104

1q: Sample was re-analyzed due to incorrect dilution.

- DUP (Lab ID: 1662969)
  - PCB-1016 (Aroclor 1016)
- MS (Lab ID: 1662968)
  - PCB-1016 (Aroclor 1016)
- SW1-170613-01-BB-01 (Lab ID: 40151614010)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 03, 2018

General Information:
10 samples were analyzed for Pace Gender Typing. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 03, 2018

General Information:
10 samples were analyzed for Pace Lipid. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-YP-01 **Lab ID: 40151614001** Collected: 06/13/17 16:15 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**214**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**112**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.3J**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	11096-82-5	
PCB, Total	**352**	ug/kg	49.9	11.4	1	03/22/18 07:22	03/23/18 15:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		1	03/22/18 07:22	03/23/18 15:48	877-09-8	
Decachlorobiphenyl (S)	82	%	60-140		1	03/22/18 07:22	03/23/18 15:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:57		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.61**	%	0.030	0.030	1		03/23/18 06:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-SMB-03 **Lab ID: 40151614002** Collected: 06/13/17 16:11 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**506**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**397**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**197**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	11096-82-5	
PCB, Total	**1100**	ug/kg	100	22.8	2	03/28/18 08:09	03/30/18 20:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		2	03/28/18 08:09	03/30/18 20:01	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		2	03/28/18 08:09	03/30/18 20:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:57		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.56**	%	0.030	0.030	1		03/29/18 07:09		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-SMB-02 **Lab ID: 40151614003** Collected: 06/13/17 16:08 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**410**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**424**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**163**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	11096-82-5	
PCB, Total	**996**	ug/kg	150	34.2	3	03/28/18 08:09	03/30/18 20:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		3	03/28/18 08:09	03/30/18 20:17	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		3	03/28/18 08:09	03/30/18 20:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:57		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.29**	%	0.030	0.030	1		03/29/18 07:09		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-SMB-01 **Lab ID: 40151614004** Collected: 06/13/17 16:05 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**12.8J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**36.1J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	11096-82-5	
PCB, Total	**48.9J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 20:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		1	03/28/18 08:09	03/30/18 20:32	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	03/28/18 08:09	03/30/18 20:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.23**	%	0.030	0.030	1		03/29/18 07:10		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-LMB-02 **Lab ID: 40151614005** Collected: 06/13/17 16:13 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**274**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**182**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**92.8**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	11096-82-5	
PCB, Total	**548**	ug/kg	49.9	11.4	1	03/30/18 07:22	04/02/18 16:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		1	03/30/18 07:22	04/02/18 16:48	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/30/18 07:22	04/02/18 16:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-LMB-01 **Lab ID: 40151614006** Collected: 06/13/17 16:09 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.3**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**570**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**545**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**206**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	11096-82-5	
PCB, Total	**1320**	ug/kg	150	34.3	3	03/23/18 07:10	03/27/18 17:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		3	03/23/18 07:10	03/27/18 17:37	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		3	03/23/18 07:10	03/27/18 17:37	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.20**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-BB-04 **Lab ID: 40151614007** Collected: 06/13/17 16:37 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**178**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**105**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.8J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	11096-82-5	
PCB, Total	**305**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 19:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	03/16/18 07:30	03/20/18 19:23	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/16/18 07:30	03/20/18 19:23	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.61**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-BB-03 **Lab ID: 40151614008** Collected: 06/13/17 16:28 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**383**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**231**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**65.7**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	11096-82-5	
PCB, Total	**680**	ug/kg	50.2	11.4	1	03/16/18 07:30	03/20/18 20:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	03/16/18 07:30	03/20/18 20:11	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	03/16/18 07:30	03/20/18 20:11	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.60**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-BB-02 **Lab ID: 40151614009** Collected: 06/13/17 16:26 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**328**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**183**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**96.2J**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	11096-82-5	
PCB, Total	**607**	ug/kg	99.9	22.8	2	03/23/18 07:10	03/27/18 17:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		2	03/23/18 07:10	03/27/18 17:52	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		2	03/23/18 07:10	03/27/18 17:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.71**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Sample: SW1-170613-01-BB-01 **Lab ID: 40151614010** Collected: 06/13/17 16:24 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**387**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**256**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**81.9J**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	11096-82-5	
PCB, Total	**726**	ug/kg	100	22.8	2	03/23/18 07:10	03/28/18 14:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		2	03/23/18 07:10	03/28/18 14:56	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	03/23/18 07:10	03/28/18 14:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:58		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.91**	%	0.030	0.030	1		03/23/18 14:11		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 283459 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151614007, 40151614008

METHOD BLANK: 1659955 | Matrix: Tissue
Associated Lab Samples: 40151614007, 40151614008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/20/18 18:36	
Decachlorobiphenyl (S)	%	86	60-140		03/20/18 18:36	
Tetrachloro-m-xylene (S)	%	76	60-140		03/20/18 18:36	

LABORATORY CONTROL SAMPLE: 1659956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	246	99	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			93	60-140	
Tetrachloro-m-xylene (S)	%			83	60-140	

MATRIX SPIKE SAMPLE: 1659957

Parameter	Units	40151705017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	250	254	101	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg	<11.4		39.7J			
PCB-1260 (Aroclor 1260)	ug/kg	15.2J		17.0J			
Decachlorobiphenyl (S)	%				86	60-140	
Tetrachloro-m-xylene (S)	%				89	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

SAMPLE DUPLICATE: 1659958

Parameter	Units	40151705017 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	<11.4		40	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	<11.4		40	
PCB-1260 (Aroclor 1260)	ug/kg	15.2J	15.0J		40	
Decachlorobiphenyl (S)	%	89	85	5		
Tetrachloro-m-xylene (S)	%	90	83	8		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 283977 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151614001

METHOD BLANK: 1662163 | Matrix: Tissue
Associated Lab Samples: 40151614001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/23/18 13:57	
Decachlorobiphenyl (S)	%	91	60-140		03/23/18 13:57	
Tetrachloro-m-xylene (S)	%	77	60-140		03/23/18 13:57	

LABORATORY CONTROL SAMPLE: 1662164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	240	96	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			91	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1662165

Parameter	Units	40151619002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<22.9			1q
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<22.9			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<22.9			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	308	123	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	284		439			
PCB-1254 (Aroclor 1254)	ug/kg	183		209			
PCB-1260 (Aroclor 1260)	ug/kg	41.4J		46.7J			
Decachlorobiphenyl (S)	%				90	60-140	
Tetrachloro-m-xylene (S)	%				84	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

SAMPLE DUPLICATE: 1662166

Parameter	Units	40151619002 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	284	305	7	40	
PCB-1254 (Aroclor 1254)	ug/kg	183	201	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	41.4J	48.5J		40	
Decachlorobiphenyl (S)	%	92	87	6		
Tetrachloro-m-xylene (S)	%	89	84	5		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284104 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151614006, 40151614009, 40151614010

METHOD BLANK: 1662965 | Matrix: Tissue
Associated Lab Samples: 40151614006, 40151614009, 40151614010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
Decachlorobiphenyl (S)	%	83	60-140		03/27/18 15:30	
Tetrachloro-m-xylene (S)	%	71	60-140		03/27/18 15:30	

LABORATORY CONTROL SAMPLE: 1662966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	259	103	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			94	60-140	
Tetrachloro-m-xylene (S)	%			84	60-140	

MATRIX SPIKE SAMPLE: 1662968

Parameter	Units	40151616010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<456		<458			1q
PCB-1221 (Aroclor 1221)	ug/kg	4140		4040			
PCB-1232 (Aroclor 1232)	ug/kg	<456		<458			
PCB-1242 (Aroclor 1242)	ug/kg	<456	251	<458	0	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	489J		736J			
PCB-1254 (Aroclor 1254)	ug/kg	<456		471J			
PCB-1260 (Aroclor 1260)	ug/kg	<456		<458			
Decachlorobiphenyl (S)	%				0	60-140	S4
Tetrachloro-m-xylene (S)	%				0	60-140	S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

SAMPLE DUPLICATE: 1662967

Parameter	Units	40151613012 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	<11.4		40	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	<11.4		40	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	<11.4		40	
Decachlorobiphenyl (S)	%	93	94	1		
Tetrachloro-m-xylene (S)	%	89	90	1		

SAMPLE DUPLICATE: 1662969

Parameter	Units	40151616010 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<456	<342		40	1q
PCB-1221 (Aroclor 1221)	ug/kg	4140	3480	17	40	
PCB-1232 (Aroclor 1232)	ug/kg	<456	<342		40	
PCB-1242 (Aroclor 1242)	ug/kg	<456	<342		40	
PCB-1248 (Aroclor 1248)	ug/kg	489J	420J		40	
PCB-1254 (Aroclor 1254)	ug/kg	<456	<342		40	
PCB-1260 (Aroclor 1260)	ug/kg	<456	<342		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151614002, 40151614003, 40151614004

METHOD BLANK: 1664793 | Matrix: Tissue
Associated Lab Samples: 40151614002, 40151614003, 40151614004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
Decachlorobiphenyl (S)	%	89	60-140		03/30/18 17:22	
Tetrachloro-m-xylene (S)	%	76	60-140		03/30/18 17:22	

LABORATORY CONTROL SAMPLE: 1664794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	236	95	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			92	60-140	
Tetrachloro-m-xylene (S)	%			81	60-140	

MATRIX SPIKE SAMPLE: 1664795

Parameter	Units	40151613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	238	95	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	11.8J		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg	16.9J		43.4J			
PCB-1260 (Aroclor 1260)	ug/kg	39.1J		35.7J			
Decachlorobiphenyl (S)	%				82	60-140	
Tetrachloro-m-xylene (S)	%				79	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

SAMPLE DUPLICATE: 1664796

Parameter	Units	40151613001 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	11.8J	11.4J		40	
PCB-1254 (Aroclor 1254)	ug/kg	16.9J	16.6J		40	
PCB-1260 (Aroclor 1260)	ug/kg	39.1J	36.6J		40	
Decachlorobiphenyl (S)	%	85	90	5		
Tetrachloro-m-xylene (S)	%	82	81	1		

SAMPLE DUPLICATE: 1664809

Parameter	Units	40157825001 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	272	344	23	40	
PCB-1254 (Aroclor 1254)	ug/kg	114	147	25	40	
PCB-1260 (Aroclor 1260)	ug/kg	20.1J	26.4J		40	
Decachlorobiphenyl (S)	%	90	93	2		
Tetrachloro-m-xylene (S)	%	86	85	1		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284719 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151614005

METHOD BLANK: 1666454 | Matrix: Tissue
Associated Lab Samples: 40151614005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
Decachlorobiphenyl (S)	%	95	60-140		04/02/18 16:16	
Tetrachloro-m-xylene (S)	%	76	60-140		04/02/18 16:16	

LABORATORY CONTROL SAMPLE: 1666455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	239	96	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			97	60-140	
Tetrachloro-m-xylene (S)	%			86	60-140	

MATRIX SPIKE SAMPLE: 1666456

Parameter	Units	40157487017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114		<114			
PCB-1221 (Aroclor 1221)	ug/kg	<114		<114			
PCB-1232 (Aroclor 1232)	ug/kg	<114		<114			
PCB-1242 (Aroclor 1242)	ug/kg	<114	250	313J	125	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	878		907			
PCB-1254 (Aroclor 1254)	ug/kg	1100		971			
PCB-1260 (Aroclor 1260)	ug/kg	384J		322J			
Decachlorobiphenyl (S)	%				106	60-140	
Tetrachloro-m-xylene (S)	%				78	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

SAMPLE DUPLICATE: 1666457

Parameter	Units	40157487017 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114	<114		40	
PCB-1221 (Aroclor 1221)	ug/kg	<114	<114		40	
PCB-1232 (Aroclor 1232)	ug/kg	<114	<114		40	
PCB-1242 (Aroclor 1242)	ug/kg	<114	<114		40	
PCB-1248 (Aroclor 1248)	ug/kg	878	789	11	40	
PCB-1254 (Aroclor 1254)	ug/kg	1100	990	11	40	
PCB-1260 (Aroclor 1260)	ug/kg	384J	360J		40	
Decachlorobiphenyl (S)	%	107	99	8		
Tetrachloro-m-xylene (S)	%	81	69	15		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 283726 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151614007, 40151614008

METHOD BLANK: 1661134 | Matrix: Tissue
Associated Lab Samples: 40151614007, 40151614008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/20/18 08:27	

MATRIX SPIKE SAMPLE: 1682476

Parameter	Units	40151705017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.75		0.75			

SAMPLE DUPLICATE: 1661137

Parameter	Units	40151705017 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.75	0.72	5	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284080 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151614001

METHOD BLANK: 1662744 | Matrix: Tissue
Associated Lab Samples: 40151614001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/23/18 06:20	

MATRIX SPIKE SAMPLE: 1682565

Parameter	Units	40151619002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.70		0.76			

SAMPLE DUPLICATE: 1662747

Parameter	Units	40151619002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.70	0.81	14	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284178 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40151614006, 40151614009, 40151614010

METHOD BLANK: 1663325 Matrix: Tissue
Associated Lab Samples: 40151614006, 40151614009, 40151614010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/23/18 14:11	

MATRIX SPIKE SAMPLE: 1682513

Parameter	Units	40151616010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.43		0.47			

SAMPLE DUPLICATE: 1663327

Parameter	Units	40151613012 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.32	0.27	15	40	

SAMPLE DUPLICATE: 1663329

Parameter	Units	40151616010 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.43	0.37	16	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284607 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40151614002, 40151614003, 40151614004

METHOD BLANK: 1665662 Matrix: Tissue
Associated Lab Samples: 40151614002, 40151614003, 40151614004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/29/18 07:08	

MATRIX SPIKE SAMPLE: 1682554

Parameter	Units	40151613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.30		0.27			

SAMPLE DUPLICATE: 1665665

Parameter	Units	40151613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.30	0.28	7	40	

SAMPLE DUPLICATE: 1665666

Parameter	Units	40157825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.39	0.44	13	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

QC Batch: 284832 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151614005

METHOD BLANK: 1667515 | Matrix: Tissue
Associated Lab Samples: 40151614005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/02/18 06:18	

MATRIX SPIKE SAMPLE: 1682573

Parameter	Units	40157487017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.28		0.26			

SAMPLE DUPLICATE: 1667518

Parameter	Units	40157487017 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.28	0.23	22	40	

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Sample was re-analyzed due to incorrect dilution.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151614001	**SW1-170613-01-YP-01**	EPA 3541	283977	EPA 8082A Mod	284142
40151614002	**SW1-170613-01-SMB-03**	EPA 3541	284454	EPA 8082A Mod	284630
40151614003	**SW1-170613-01-SMB-02**	EPA 3541	284454	EPA 8082A Mod	284630
40151614004	**SW1-170613-01-SMB-01**	EPA 3541	284454	EPA 8082A Mod	284630
40151614005	**SW1-170613-01-LMB-02**	EPA 3541	284719	EPA 8082A Mod	284860
40151614006	**SW1-170613-01-LMB-01**	EPA 3541	284104	EPA 8082A Mod	284353
40151614007	**SW1-170613-01-BB-04**	EPA 3541	283459	EPA 8082A Mod	283746
40151614008	**SW1-170613-01-BB-03**	EPA 3541	283459	EPA 8082A Mod	283746
40151614009	**SW1-170613-01-BB-02**	EPA 3541	284104	EPA 8082A Mod	284353
40151614010	**SW1-170613-01-BB-01**	EPA 3541	284104	EPA 8082A Mod	284353
40151614001	**SW1-170613-01-YP-01**	Pace Gender Typing	283153		
40151614002	**SW1-170613-01-SMB-03**	Pace Gender Typing	283153		
40151614003	**SW1-170613-01-SMB-02**	Pace Gender Typing	283153		
40151614004	**SW1-170613-01-SMB-01**	Pace Gender Typing	283153		
40151614005	**SW1-170613-01-LMB-02**	Pace Gender Typing	283153		
40151614006	**SW1-170613-01-LMB-01**	Pace Gender Typing	283153		
40151614007	**SW1-170613-01-BB-04**	Pace Gender Typing	283153		
40151614008	**SW1-170613-01-BB-03**	Pace Gender Typing	283153		
40151614009	**SW1-170613-01-BB-02**	Pace Gender Typing	283153		
40151614010	**SW1-170613-01-BB-01**	Pace Gender Typing	283153		
40151614001	**SW1-170613-01-YP-01**	Pace Lipid	284080		
40151614002	**SW1-170613-01-SMB-03**	Pace Lipid	284607		
40151614003	**SW1-170613-01-SMB-02**	Pace Lipid	284607		
40151614004	**SW1-170613-01-SMB-01**	Pace Lipid	284607		
40151614005	**SW1-170613-01-LMB-02**	Pace Lipid	284832		
40151614006	**SW1-170613-01-LMB-01**	Pace Lipid	284178		
40151614007	**SW1-170613-01-BB-04**	Pace Lipid	283726		
40151614008	**SW1-170613-01-BB-03**	Pace Lipid	283726		
40151614009	**SW1-170613-01-BB-02**	Pace Lipid	284178		
40151614010	**SW1-170613-01-BB-01**	Pace Lipid	284178		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

40151614

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-05
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company
Project: Hudson River Remedial Action Monitoring Program

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	001	SW1-170613-01	SW1-170613-01-YP-01	6/13/2017	16:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	002	SW1-170613-01	SW1-170613-01-SMB-03	6/13/2017	16:11	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	003	SW1-170613-01	SW1-170613-01-SMB-02	6/13/2017	16:08	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	004	SW1-170613-01	SW1-170613-01-SMB-01	6/13/2017	16:05	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	005	SW1-170613-01	SW1-170613-01-LMB-02	6/13/2017	16:13	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	006	SW1-170613-01	SW1-170613-01-LMB-01	6/13/2017	16:09	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	007	SW1-170613-01	SW1-170613-01-BB-04	6/13/2017	16:37	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	008	SW1-170613-01	SW1-170613-01-BB-03	6/13/2017	16:28	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	009	SW1-170613-01	SW1-170613-01-BB-02	6/13/2017	16:26	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	010	SW1-170613-01	SW1-170613-01-BB-01	6/13/2017	16:24	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc A
1-ziploc A

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company Feder	Company Pace	Company	Company	Company	Company
Date/Time 6/14/17 0950	Date/Time 6/14/17 0950	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 1 of 2***

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-05
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company
Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	ND2-170613-01	ND2-170613-01-YP-03	6/13/2017	13:29	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	ND2-170613-01	ND2-170613-01-YP-02	6/13/2017	13:28	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	ND2-170613-01	ND2-170613-01-YP-01	6/13/2017	13:26	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	ND2-170613-01	ND2-170613-01-SMB-05	6/13/2017	13:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	ND2-170613-01	ND2-170613-01-SMB-04	6/13/2017	13:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	ND2-170613-01	ND2-170613-01-SMB-03	6/13/2017	13:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	ND2-170613-01	ND2-170613-01-SMB-02	6/13/2017	13:17	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	ND2-170613-01	ND2-170613-01-SMB-01	6/13/2017	13:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	ND1-170613-01	ND1-170613-01-YP-05	6/13/2017	13:54	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	ND1-170613-01	ND1-170613-01-YP-04	6/13/2017	13:50	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature [illegible]	Signature	Signature	Signature	Signature
Print Name	Print Name Heather	Print Name	Print Name	Print Name	Print Name
Company Fedex	Company Pace	Company	Company	Company	Company
Date/Time 6/14/17 0950	Date/Time 6/14/17 0950	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

Pace Analytical

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: WO#: 40151614

40151614

Client Name: Anchor

Courier: ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 7868678842 6, 7868678840 90, 7868678841 04

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used SR-70 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.3, 3 /Corr: 2.3, 3 **Biological Tissue is Frozen:** ☐ yes ☑ no

Temp Blank Present: ☑ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 6/14/17
Initials: [illegible]

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: B		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: all samples have melt water in ziploc [illegible] 6/14/17

Project Manager Review: AL for TN **Date:** 6/14/17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40151614
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at or below 3°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

A. Sample Preparation: All method and QAPP specified holding times were met.
B. Sample Analysis: All method and QAPP specified holding times were met.

3. METHOD

Preparation: SW-846 3541
Analysis: SW-846 8082A Modified

4. PREPARATION

Sample preparation proceeded normally. All samples went through florisil and acid clean-up procedures prior to analysis.

5. ANALYSIS

A. Calibration:
1. **Initial verification:** All method acceptance criteria were met.
2. **Continuing verification:** All method acceptance criteria were met.

B. Blanks:
1. **Method:** All acceptance criteria were met for the associated method blanks.

C. Surrogates: All QAPP specified acceptance criteria were met.

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Batch MSs were analyzed with this SDG in order to cover the QAPP QC requirement. The QAPP specified accuracy criteria were met with the following exception. MS 1662968 required a 1:40 dilution to bring a non-fortified Aroclor within instrument calibration range, and MS 1666456 required a 1:10 dilution to bring a non-fortified Aroclor within instrument calibration range. Spike levels are below the lowest calibration level when dilution factors are greater than five; therefore, the accuracy criteria for the MSD are not applicable. The “M6” data qualifier was applied to the parent result on the final report.

E. Samples: Sample analyses proceeded normally. ZB-1ms is the quantitation column.

F. Sample Duplicate: Batch duplicates were analyzed with this SDG in order to cover the QAPP QC requirement. The QAPP specified precision criteria were met. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
SW1-170613-01-LMB-01	To bring Aroclors within instrument calibration range
SW1-170613-01-BB-02	To bring Aroclors within instrument calibration range
SW1-170613-01-BB-01	To bring Aroclors within instrument calibration range
SW1-170613-01-SMB-03	To bring Aroclors within instrument calibration range
SW1-170613-01-SMB-02	To bring Aroclors within instrument calibration range

H. Reanalysis: Sample SW1-170613-01-BB-01 was initially analyzed straight or diluted based on screener data. Upon analysis, the sample was found to require reanalysis at a different dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the “1q” data qualifier on the final report to note the occurrence.

I. Comments: Due to rounding differences in the software programs used, the values found on the quantitation reports may not match the values found on the sample Form 1s.

I certify that this data package is in compliance with the terms and conditions agreed to by **Pace Analytical Services, LLC**, and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this completed data package:

Signed: Leigh A Begalske Date: 05/11/18

Name: Leigh A. Begalske Position: Quality Assurance Auditor

PCB - FORM II SVOA-1
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1659955	1659955BLANK	86	76
1659956	1659956LCS	93	83
40151614007	SW1-170613-01-BB-04	96	99
40151614008	SW1-170613-01-BB-03	97	96

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM II SVOA-2
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662163	1662163BLANK	91	77
1662164	1662164LCS	91	78
40151614001	SW1-170613-01-YP-01	82	77

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM II SVOA-3
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662965	1662965BLANK	83	71
1662966	1662966LCS	94	84
40151614006	SW1-170613-01-LMB-01	103	90
40151614009	SW1-170613-01-BB-02	94	87
40151614010	SW1-170613-01-BB-01	95	90

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM II SVOA-4
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1664793	1664793BLANK	89	76
1664794	1664794LCS	92	81
40151614002	SW1-170613-01-SMB-03	91	84
40151614003	SW1-170613-01-SMB-02	97	85
40151614004	SW1-170613-01-SMB-01	84	73

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM II SVOA-5
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1666454	1666454BLANK	95	76
1666455	1666455LCS	97	86
40151614005	SW1-170613-01-LMB-02	96	82

	QC LIMITS
(DCBP) = Decachlorobiphenyl (S)	(60-140)
(TCMX) = Tetrachloro-m-xylene (S)	(60-140)

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/16/2018

Instrument: 40GCSJ

Lab File ID: 032018.B\032018025.D

Lab Sample ID: 1659956LCS

Date Analyzed (1): 03/20/2018

LCS Lot No: 182336

SDG No.: 40151614

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	246	99	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Lab Sample ID: 1662164LCS

Date Extracted: 03/22/2018

Date Analyzed (1): 03/23/2018

Instrument: 40GCSJ

LCS Lot No: 182336

Lab File ID: 032318.B\032318007.D

SDG No.: 40151614

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	240	96	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument: 40GCSJ

Lab File ID: 032718.B\032718011.D

Lab Sample ID: 1662966LCS

Date Analyzed (1): 03/27/2018

LCS Lot No: 182336

SDG No.: 40151614

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	259	103	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument: 40GCSJ

Lab File ID: 033018.B\033018011.D

Lab Sample ID: 1664794LCS

Date Analyzed (1): 03/30/2018

LCS Lot No: 182336

SDG No.: 40151614

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	236	95	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument: 40GCSJ

Lab File ID: 040218.B\040218009.D

Lab Sample ID: 1666455LCS

Date Analyzed (1): 04/02/2018

LCS Lot No: 192096

SDG No.: 40151614

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	239	96	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/16/2018

Instrument: 40GCSJ

Parent Sample ID: 40151705017

Matrix Spike - Sample No: 1659957MS

Date Analyzed (1): 03/20/2018

Lab File ID: 032018.B\032018026.D

SDG No.: 40151614

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<11.4	254	101	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/22/2018

Instrument: 40GCSJ

Parent Sample ID: 40151619002

Matrix Spike - Sample No: 1662165MS

Date Analyzed (1): 03/27/2018

Lab File ID: 032718.B\032718007.D

SDG No.: 40151614

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<11.4	308	123	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument: 40GCSJ

Parent Sample ID: 40151616010

Matrix Spike - Sample No: 1662968MS

Date Analyzed (1): 03/30/2018

Lab File ID: 033018.B\033018006.D

SDG No.: 40151614

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<456	<458	0	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument: 40GCSJ

Parent Sample ID: 40151613001

Matrix Spike - Sample No: 1664795MS

Date Analyzed (1): 03/30/2018

Lab File ID: 033018.B\033018012.D

SDG No.: 40151614

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<11.4	238	95	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument: 40GCSJ

Parent Sample ID: 40157487017

Matrix Spike - Sample No: 1666456MS

Date Analyzed (1): 04/02/2018

Lab File ID: 040218.B\040218020.D

SDG No.: 40151614

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<114	313J	125	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/16/2018

Instrument 40GCSJ

Lab Sample ID: 40151705017

Duplicate Sample No: 40151705017DUP

Date Analyzed: 03/21/2018

Lab File ID: 032018.B\032018050.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	<11.4	<11.4		0-40
PCB-1254 (Aroclor 1254)	<11.4	<11.4		0-40
PCB-1260 (Aroclor 1260)	15.2J	15.0J		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/22/2018

Instrument 40GCSJ

Lab Sample ID: 40151619002

Duplicate Sample No: 40151619002DUP

Date Analyzed: 03/23/2018

Lab File ID: 032318.B\032318019.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	284	305	7	0-40
PCB-1254 (Aroclor 1254)	183	201	10	0-40
PCB-1260 (Aroclor 1260)	41.4J	48.5J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument 40GCSJ

Lab Sample ID: 40151613012

Duplicate Sample No: 40151613012DUP

Date Analyzed: 03/27/2018

Lab File ID: 032718.B\032718014.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	<11.4	<11.4		0-40
PCB-1254 (Aroclor 1254)	<11.4	<11.4		0-40
PCB-1260 (Aroclor 1260)	<11.4	<11.4		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument 40GCSJ

Lab Sample ID: 40151616010

Duplicate Sample No: 40151616010DUP

Date Analyzed: 03/28/2018

Lab File ID: 032818.B\032818011.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<456	<342		0-40
PCB-1221 (Aroclor 1221)	4140	3480	17	0-40
PCB-1232 (Aroclor 1232)	<456	<342		0-40
PCB-1242 (Aroclor 1242)	<456	<342		0-40
PCB-1248 (Aroclor 1248)	489J	420J		0-40
PCB-1254 (Aroclor 1254)	<456	<342		0-40
PCB-1260 (Aroclor 1260)	<456	<342		0-40

RPD: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument 40GCSJ

Lab Sample ID: 40151613001

Duplicate Sample No: 40151613001DUP

Date Analyzed: 03/30/2018

Lab File ID: 033018.B\033018018.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	11.8J	11.4J		0-40
PCB-1254 (Aroclor 1254)	16.9J	16.6J		0-40
PCB-1260 (Aroclor 1260)	39.1J	36.6J		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument 40GCSJ

Lab Sample ID: 40157825001

Duplicate Sample No: 40157825001DUP

Date Analyzed: 03/30/2018

Lab File ID: 033018.B\033018034.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	272	344	23	0-40
PCB-1254 (Aroclor 1254)	114	147	25	0-40
PCB-1260 (Aroclor 1260)	20.1J	26.4J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument 40GCSJ

Lab Sample ID: 40157487017

Duplicate Sample No: 40157487017DUP

Date Analyzed: 04/02/2018

Lab File ID: 040218.B\040218021.D

SDG No.: 40151614

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<114	<114		0-40
PCB-1221 (Aroclor 1221)	<114	<114		0-40
PCB-1232 (Aroclor 1232)	<114	<114		0-40
PCB-1242 (Aroclor 1242)	<114	<114		0-40
PCB-1248 (Aroclor 1248)	878	789	11	0-40
PCB-1254 (Aroclor 1254)	1100	990	11	0-40
PCB-1260 (Aroclor 1260)	384J	360J		0-40

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1659955BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1659955

Lab File ID: 032018.B\032018024.D Date Analyzed: 03/20/2018 Time:18:36

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1659956LCS	1659956	032018.B\032018025.D	03/20/2018 18:52
SW1-170613-01-BB-04	40151614007	032018.B\032018027.D	03/20/2018 19:23
SW1-170613-01-BB-03	40151614008	032018.B\032018030.D	03/20/2018 20:11
1659958DUP	1659958	032018.B\032018050.D	03/21/2018 01:27

SAMPLE NO.

1662163BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1662163

Lab File ID: 032318.B\032318006.D Date Analyzed: 03/23/2018 Time:13:57

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1662164LCS	1662164	032318.B\032318007.D	03/23/2018 14:13
SW1-170613-01-YP-01	40151614001	032318.B\032318013.D	03/23/2018 15:48
1662166DUP	1662166	032318.B\032318019.D	03/23/2018 17:23

SAMPLE NO.

1662965BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1662965

Lab File ID: 032718.B\032718010.D Date Analyzed: 03/27/2018 Time:15:30

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1662966LCS	1662966	032718.B\032718011.D	03/27/2018 15:46
1662967DUP	1662967	032718.B\032718014.D	03/27/2018 16:33
SW1-170613-01-LMB-01	40151614006	032718.B\032718018.D	03/27/2018 17:37
SW1-170613-01-BB-02	40151614009	032718.B\032718019.D	03/27/2018 17:52
SW1-170613-01-BB-01	40151614010	032818.B\032818007.D	03/28/2018 14:56
1662969DUP	1662969	032818.B\032818011.D	03/28/2018 15:59

SAMPLE NO.

1664793BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1664793

Lab File ID: 033018.B\033018010.D Date Analyzed: 03/30/2018 Time:17:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1664794LCS	1664794	033018.B\033018011.D	03/30/2018 17:38
1664796DUP	1664796	033018.B\033018018.D	03/30/2018 19:29
SW1-170613-01-SMB-03	40151614002	033018.B\033018020.D	03/30/2018 20:01
SW1-170613-01-SMB-02	40151614003	033018.B\033018021.D	03/30/2018 20:17
SW1-170613-01-SMB-01	40151614004	033018.B\033018022.D	03/30/2018 20:32
1664809DUP	1664809	033018.B\033018034.D	03/30/2018 23:43

SAMPLE NO.

1666454BLANK

PCB - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Green Bay SDG No.: 40151614 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1666454

Lab File ID: 040218.B\040218008.D Date Analyzed: 04/02/2018 Time:16:16

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1666455LCS	1666455	040218.B\040218009.D	04/02/2018 16:32
SW1-170613-01-LMB-02	40151614005	040218.B\040218010.D	04/02/2018 16:48
1666457DUP	1666457	040218.B\040218021.D	04/02/2018 19:42

SAMPLE NO.

SW1-170613-01-YP-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151614001
Date Analyzed: 03/23/2018 15:48
Lab File ID: 032318.B\032318013.D
Initial wt/vol: 10.0203 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	214	
11097-69-1	PCB-1254 (Aroclor 1254)	112	
11096-82-5	PCB-1260 (Aroclor 1260)	26.3	J
1336-36-3	PCB, Total	352	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318013.D
Lab Smp Id: 40151614001 Client Smp ID: SW1-170613-01-YP-01
Inj Date : 23-MAR-2018 15:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614001,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.020	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	10427	8491	0.814	0.02		
1.184	12036	9507	0.790	0.02		
1.952	11677	7603	0.651	0.02		
2.197	67996	41842	0.615	0.13		
2.408	44397	39136	0.882	0.08		
2.485	9447738	9053480	0.958	18.62	$ 2 Tetrachloro-m-xylene	
2.788	17821	16603	0.932	0.03		
2.861	25240	15770	0.625	0.04		
2.973	38140	19240	0.504	0.07		
3.021	28174	26042	0.924	0.05		
3.055	20672	16801	0.813	0.03		
3.320	14946	14950	1.000	0.02		
3.346	17146	19796	1.155	0.03		
3.432	43681	36536	0.836	0.08		
3.519	51252	46587	0.909	0.09		
3.648	11693	8282	0.708	0.02		
3.732	113263	85782	0.757	0.21		
3.827	702627	483229	0.688	1.34		
3.939	52869	36154	0.684	0.10		
3.993	93903	88853	0.946	0.18		
4.058	47662	39836	0.836	0.09		
4.133	12022	9646	0.802	0.02		
4.215	1349115	1256489	0.931	2.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1414135	1340988	0.948	2.71	6 Aroclor 1248
4.292	936290	788222	0.842	1.79	
4.417	834503	799143	0.958	1.60	
4.452	508613	477678	0.939	0.97	
4.545	1005105	934389	0.930	1.93	6 Aroclor 1248
4.590	46776	45222	0.967	0.08	
4.616	123928	110019	0.888	0.23	
4.679	57769	48136	0.833	0.11	
4.729	87131	61183	0.702	0.16	
4.767	192105	180681	0.941	0.36	
4.812	838975	822746	0.981	1.61	6 Aroclor 1248
4.848	1271920	1232770	0.969	2.44	
4.878	2870336	1933284	0.674	5.51	6 Aroclor 1248
4.956	315822	270809	0.857	0.60	
5.036	1122312	1047441	0.933	2.15	6 Aroclor 1248
5.100	653204	551864	0.845	1.25	
5.161	1342932	1187803	0.884	2.57	7 Aroclor 1254
5.211	1015190	933106	0.919	1.95	
5.283	93754	85569	0.913	0.18	
5.308	202184	161661	0.800	0.38	
5.362	577763	506680	0.877	1.10	
5.406	946494	867241	0.916	1.81	7 Aroclor 1254
5.446	876893	743637	0.848	1.68	
5.479	59152	66168	1.119	0.11	
5.509	1954185	1702714	0.871	3.75	7 Aroclor 1254
5.569	62629	43197	0.690	0.12	
5.603	345304	277954	0.805	0.66	
5.674	272940	248176	0.909	0.52	
5.715	282175	206813	0.733	0.54	
5.741	241955	194425	0.804	0.46	
5.788	1946283	1504333	0.773	3.73	
5.886	215545	119193	0.553	0.41	
5.927	82943	49990	0.603	0.15	
5.993	203430	185135	0.910	0.39	
6.023	973469	853807	0.877	1.87	7 Aroclor 1254
6.054	718614	593105	0.825	1.38	
6.130	51548	30374	0.589	0.09	
6.166	270735	159053	0.587	0.52	
6.242	197158	94880	0.481	0.37	
6.299	1285193	1078560	0.839	2.46	7 Aroclor 1254
6.332	131736	108100	0.821	0.25	
6.372	102291	67472	0.660	0.19	
6.431	126192	64337	0.510	0.24	
6.509	700178	627751	0.897	1.34	
6.533	221306	207457	0.937	0.42	
6.559	87149	64638	0.742	0.16	
6.627	91189	48489	0.532	0.17	
6.717	141935	111308	0.784	0.27	
6.757	149616	100183	0.670	0.28	
6.800	138316	121127	0.876	0.26	
6.837	191854	148783	0.776	0.36	
6.910	35243	26560	0.754	0.06	
6.940	86024	67170	0.781	0.16	
7.003	203003	188103	0.927	0.38	8 Aroclor 1260
7.034	42526	34013	0.800	0.08	
7.095	14095	11865	0.842	0.02	
7.121	28227	22473	0.796	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	119049	96072	0.807	0.22	8 Aroclor 1260
7.280	69569	45537	0.655	0.13	
7.337	22220	18797	0.846	0.04	
7.388	397772	339647	0.854	0.76	
7.440	331733	282974	0.853	0.63	8 Aroclor 1260
7.582	12394	13740	1.109	0.02	
7.688	23865	24947	1.045	0.04	
7.726	190448	164814	0.865	0.36	
7.776	12292	11752	0.956	0.02	
7.801	62640	38555	0.615	0.12	
7.860	25926	21201	0.818	0.04	
7.898	136877	112686	0.823	0.26	8 Aroclor 1260
8.048	24377	17263	0.708	0.04	
8.272	375852	337181	0.897	0.72	
8.380	12765	10270	0.805	0.02	
8.569	8997565	7829542	0.870	17.28	$ 12 Decachlorobiphenyl
9.165	16598	14449	0.871	0.03	
	52054709	45318060		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318013.D
Lab Smp Id: 40151614001 Client Smp ID: SW1-170613-01-YP-01
Inj Date : 23-MAR-2018 15:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614001,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.020	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.484	2.484	0.000	9447737	0.07663		38		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1414134	0.60356	300	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1005104	0.24218	120	0.00- 20.00	71.08	BA
4.812	4.812	0.000	838975	0.41327	210	0.00- 20.00	59.33	BA
4.878	4.879	-0.001	2870336	0.56980	280	0.00- 20.00	202.97	BA
5.036	5.038	-0.002	1122312	0.31275	160	0.00- 20.00	79.36	BA
Average of Peak Concentrations =					210			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1342932	0.25652	130	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	946493	0.22006	110	0.00- 20.00	70.48	BA
5.509	5.510	-0.001	1954185	0.25163	120	0.00- 20.00	145.52	BA
6.022	6.027	-0.005	973469	0.19990	100	0.00- 20.00	72.49	BA
6.299	6.299	0.000	1285192	0.19751	98	0.00- 20.00	95.70	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	203002	0.02027	10	0.00- 20.00	15.80	BA
7.248	7.251	-0.003	119048	0.02491	12	0.00- 20.00	9.26	BA
7.440	7.443	-0.003	331733	0.11380	57	0.00- 20.00	25.81	BA
7.898	7.901	-0.003	136876	0.05187	26	0.00- 20.00	10.65	BA
Average of Peak Concentrations =					26			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	8997564	0.08212	41			

QC Flag Legend

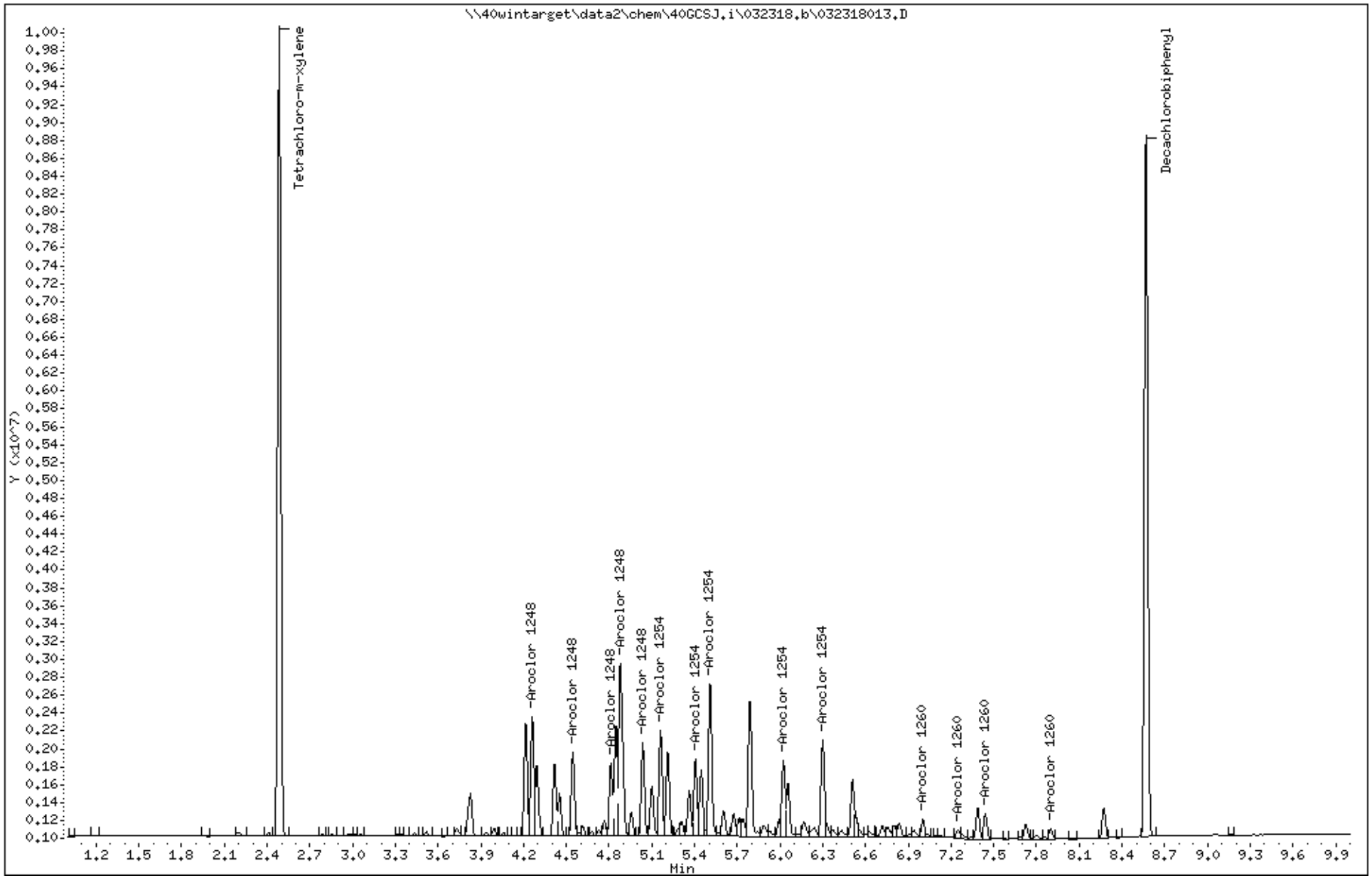
M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318013.D
Date : 23-MAR-2018 15:48
Client ID: SW1-170613-01-YP-01
Sample Info: 40151614001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



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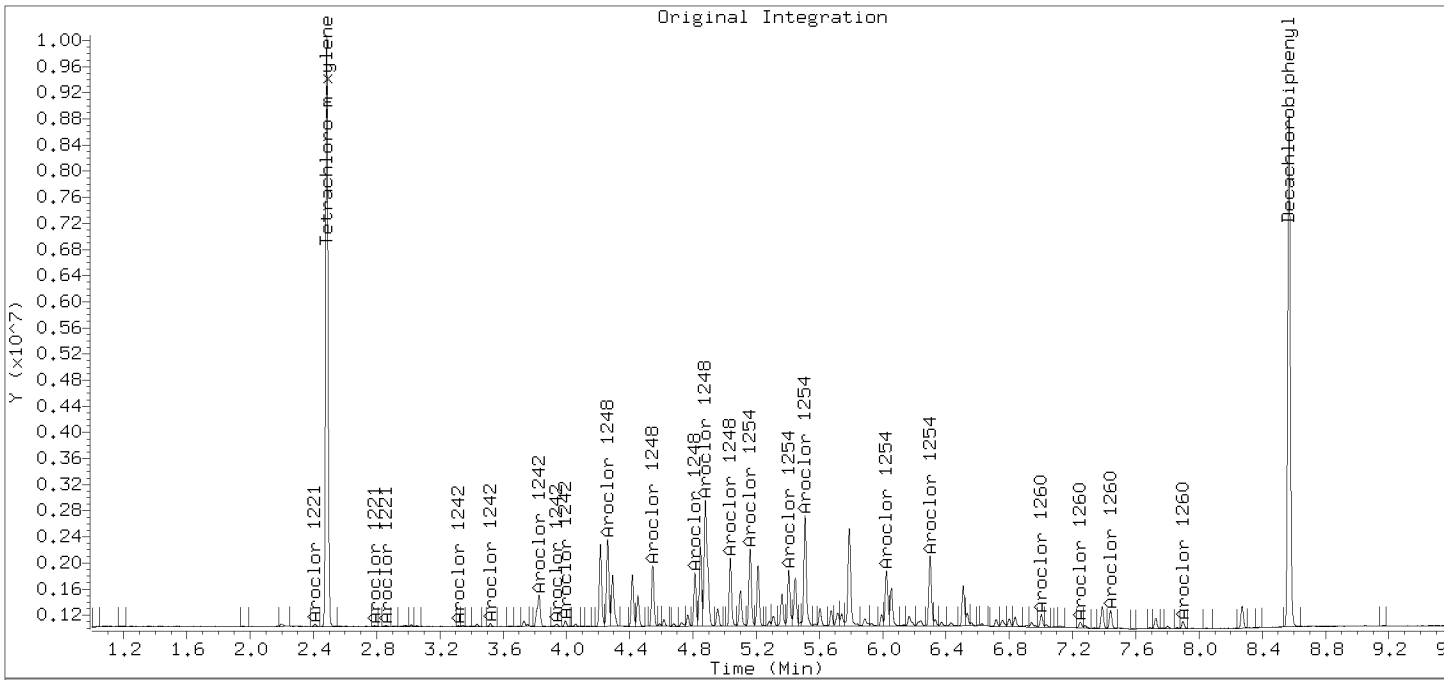
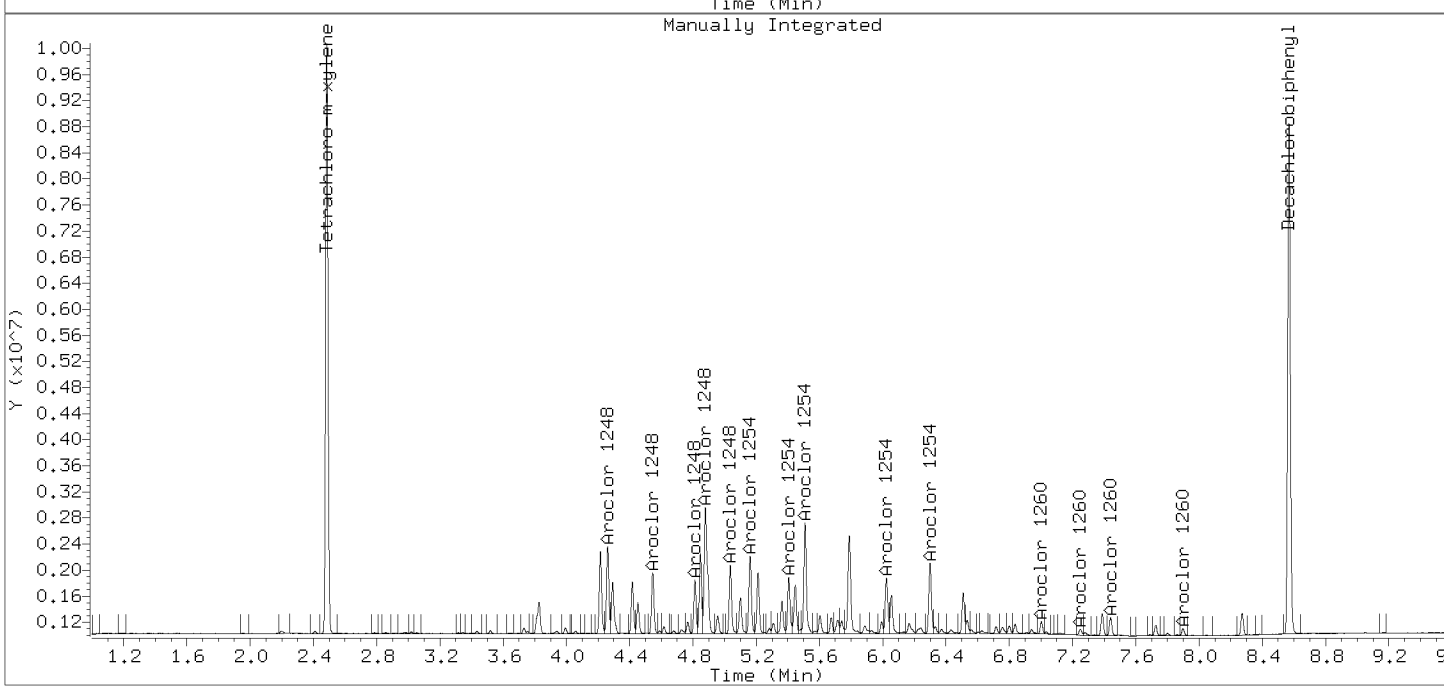
Injection Date: 23-MAR-2018 15:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	14946	0	
Aroclor 1016	14946	0	
Aroclor 1016	14946	0	
Aroclor 1016	14946	0	
Aroclor 1016	14946	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	25240	0	
Aroclor 1232	25240	0	
Aroclor 1232	25240	0	
Aroclor 1232	25240	0	

Aroclor 1232	25240	0	
Aroclor 1242	14946	0	
Aroclor 1242	14946	0	
Aroclor 1242	14946	0	
Aroclor 1242	14946	0	
Aroclor 1242	14946	0	
Aroclor 1248	1403081	1414134	BA
Aroclor 1248	1403081	1414134	BA
Aroclor 1248	1403081	1414134	BA
Aroclor 1248	1403081	1414134	BA
Aroclor 1248	1403081	1414134	BA
Aroclor 1254	1305019	1342932	BA
Aroclor 1254	1305019	1342932	BA
Aroclor 1254	1305019	1342932	BA
Aroclor 1254	1305019	1342932	BA
Aroclor 1254	1305019	1342932	BA
Aroclor 1260	1241993	0	BA
Aroclor 1260	1241993	0	BA
Aroclor 1260	1241993	0	BA
Aroclor 1260	1241993	0	BA
Aroclor 1260	1241993	0	BA
Tetrachloro-m-xylene	9447737	9447737	
Decachlorobiphenyl	8997564	8997564	

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SAMPLE NO.

SW1-170613-01-SMB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40151614002
Date Analyzed: 03/30/2018 20:01
Lab File ID: 033018.B\033018020.D
Initial wt/vol: 10.0031 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	506	
11097-69-1	PCB-1254 (Aroclor 1254)	397	
11096-82-5	PCB-1260 (Aroclor 1260)	197	
1336-36-3	PCB, Total	1100	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018020.D
Lab Smp Id: 40151614002 Client Smp ID: SW1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614002 x2,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.170	15364	9594	0.624	0.02		
2.410	103613	80304	0.775	0.14		
2.484	5169761	4959774	0.959	7.91	$ 2 Tetrachloro-m-xylene	
2.685	13798	7777	0.564	0.01		
2.787	22523	19402	0.861	0.03		
2.852	45202	36039	0.797	0.06		
2.974	27760	16175	0.583	0.03		
3.016	14052	14874	1.059	0.02		
3.054	155597	146172	0.939	0.22		
3.319	84115	83061	0.987	0.12		
3.343	109575	104630	0.955	0.15		
3.433	217053	202423	0.933	0.31		
3.519	238851	214744	0.899	0.34		
3.644	29654	24105	0.813	0.04		
3.731	207826	203064	0.977	0.29		
3.756	80620	79794	0.990	0.11		
3.814	381541	478745	1.255	0.54		
3.826	608133	573351	0.943	0.87		
3.938	251378	207643	0.826	0.35		
3.993	212876	190055	0.893	0.30		
4.057	120056	110021	0.916	0.17		
4.135	25747	23181	0.900	0.03		
4.214	1806724	1655815	0.916	2.58		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	1865610	1745162	0.935	2.67	6 Aroclor 1248
4.292	1968104	1659208	0.843	2.81	
4.417	764652	718501	0.940	1.09	
4.452	628153	567932	0.904	0.89	
4.545	1332321	1239194	0.930	1.90	6 Aroclor 1248
4.588	169003	160386	0.949	0.24	
4.616	155691	142055	0.912	0.22	
4.680	159010	146915	0.924	0.22	
4.734	220524	165137	0.749	0.31	
4.767	357188	335981	0.941	0.51	
4.812	1114950	1048496	0.940	1.59	6 Aroclor 1248
4.847	914199	872262	0.954	1.30	
4.879	2853597	1609509	0.564	4.08	6 Aroclor 1248
4.956	638207	560613	0.878	0.91	
5.037	1075523	975612	0.907	1.53	6 Aroclor 1248
5.100	1193383	1046264	0.877	1.70	
5.161	2211635	1895707	0.857	3.16	7 Aroclor 1254
5.212	1716878	1482161	0.863	2.45	
5.283	187324	178876	0.955	0.26	
5.307	345937	295562	0.854	0.49	
5.362	701313	630455	0.899	1.00	
5.406	1466063	1277789	0.872	2.09	7 Aroclor 1254
5.447	1173748	964680	0.822	1.67	
5.480	180505	165187	0.915	0.25	
5.509	2486914	2174663	0.874	3.55	7 Aroclor 1254
5.576	171860	154587	0.899	0.24	
5.604	320774	271361	0.846	0.45	
5.674	778446	717903	0.922	1.11	
5.710	451091	341956	0.758	0.64	
5.742	634962	491202	0.774	0.90	
5.789	3647680	2812384	0.771	5.22	
5.885	327750	249049	0.760	0.46	
5.930	387059	305404	0.789	0.55	
5.993	895654	842168	0.940	1.28	
6.024	1565466	1338520	0.855	2.24	7 Aroclor 1254
6.055	2609896	2236215	0.857	3.73	
6.168	616869	424141	0.688	0.88	
6.226	224599	243699	1.085	0.32	
6.241	359339	284725	0.792	0.51	
6.300	3772105	2973115	0.788	5.39	7 Aroclor 1254
6.332	363284	329784	0.908	0.51	
6.372	175184	145411	0.830	0.25	
6.432	543003	471496	0.868	0.77	
6.509	1626942	1445032	0.888	2.32	
6.534	619893	579380	0.935	0.88	
6.559	367973	317280	0.862	0.52	
6.604	146354	127713	0.873	0.20	
6.660	80422	73231	0.911	0.11	
6.717	408187	355768	0.872	0.58	
6.758	449539	405411	0.902	0.64	
6.800	546573	499851	0.915	0.78	
6.839	339073	256794	0.757	0.48	
6.911	75190	73380	0.976	0.10	
6.941	298922	265286	0.887	0.42	
7.004	1482706	1292354	0.872	2.12	8 Aroclor 1260
7.033	153645	143365	0.933	0.21	
7.075	23435	23404	0.999	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.119	51950	42620	0.820	0.07	
7.250	633707	569171	0.898	0.90	8 Aroclor 1260
7.280	229512	187484	0.817	0.32	
7.388	826186	719433	0.871	1.18	
7.441	804258	706531	0.878	1.15	8 Aroclor 1260
7.549	52221	42920	0.822	0.07	
7.689	190464	169104	0.888	0.27	
7.725	210302	178276	0.848	0.30	
7.800	104511	69052	0.661	0.14	
7.898	612894	541457	0.883	0.87	8 Aroclor 1260
7.963	63452	44426	0.700	0.09	
8.049	65922	57281	0.869	0.09	
8.273	595636	514056	0.863	0.85	
8.456	19504	12886	0.661	0.02	
8.502	9420	8112	0.861	0.01	
8.568	4990852	4276102	0.857	7.14	$ 12 Decachlorobiphenyl
8.721	16390	14340	0.875	0.02	
9.051	27732	19639	0.708	0.03	
9.166	64233	53915	0.839	0.09	
9.734	15244	12054	0.791	0.02	
	69870515	60229278		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018020.D
Lab Smp Id: 40151614002 Client Smp ID: SW1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614002 x2,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.484	2.484	0.000	5169760	0.04193		42		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1865610	0.79626	800	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1332320	0.32102	320	0.00- 20.00	71.41	BA
4.811	4.812	-0.001	1114949	0.54921	550	0.00- 20.00	59.76	BA
4.878	4.879	-0.001	2853596	0.56648	570	0.00- 20.00	152.96	BA
5.037	5.038	-0.001	1075523	0.29971	300	0.00- 20.00	57.65	BA
Average of Peak Concentrations =					510			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2211635	0.42245	420	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1466062	0.34086	340	0.00- 20.00	66.29	BA
5.509	5.510	-0.001	2486914	0.32023	320	0.00- 20.00	112.45	BA
6.024	6.027	-0.003	1565465	0.32147	320	0.00- 20.00	70.78	BA
6.299	6.299	0.000	3772104	0.57969	580	0.00- 20.00	170.56	BA
Average of Peak Concentrations =					400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	1482705	0.14806	150	0.00- 20.00	39.31	BA
7.250	7.251	-0.001	633706	0.13258	130	0.00- 20.00	16.80	BA
7.441	7.443	-0.002	804258	0.27589	280	0.00- 20.00	21.32	BA
7.898	7.901	-0.003	612894	0.23227	230	0.00- 20.00	16.25	BA
Average of Peak Concentrations =					200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	4990852	0.04555	46			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018020.D

Date : 30-MAR-2018 20:01

Client ID: SW1-170613-01-SMB-0

Instrument: 40GCSJ.i

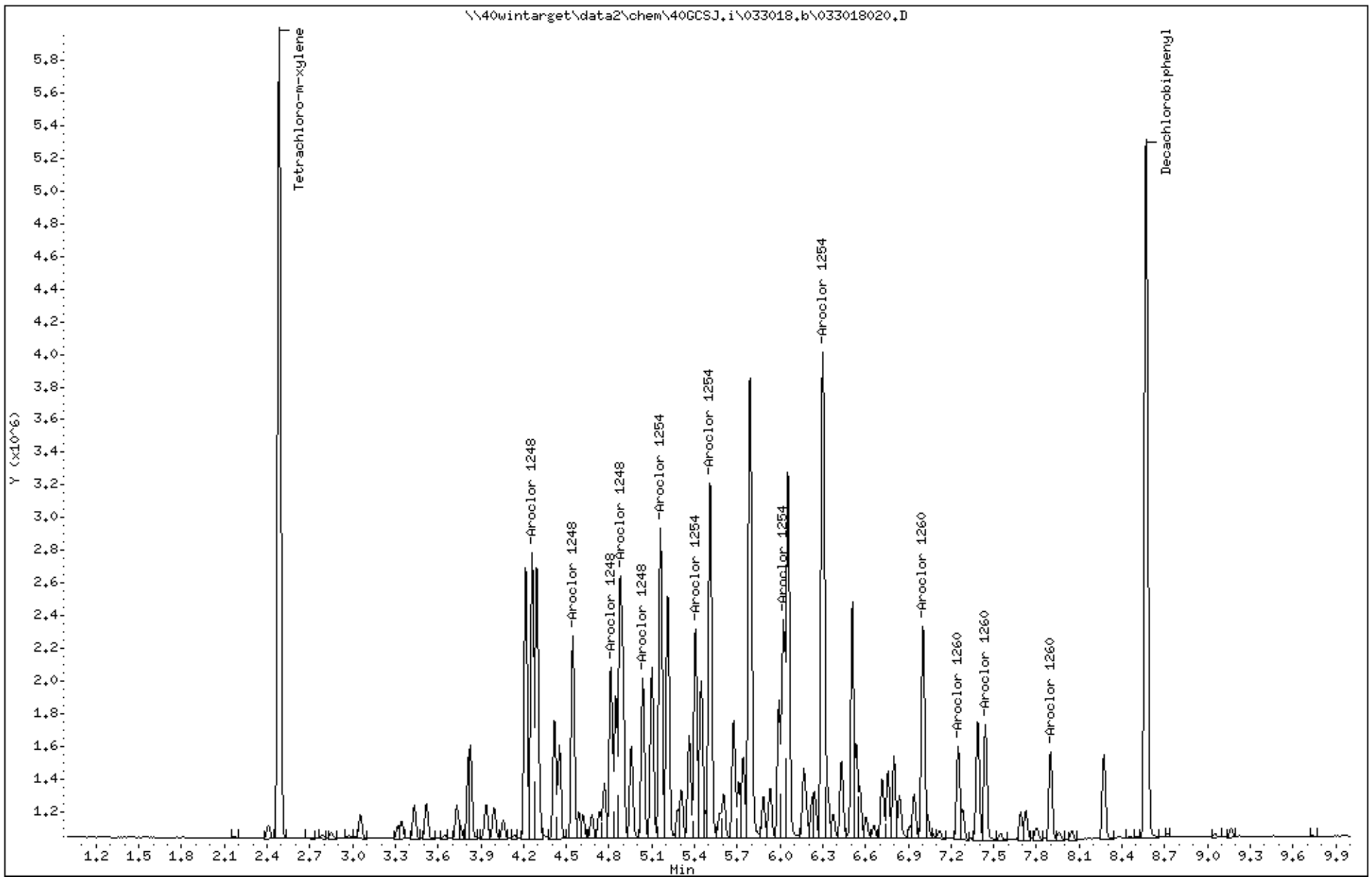
Sample Info: 40151614002 x2,

Volume Injected (uL): 1.0

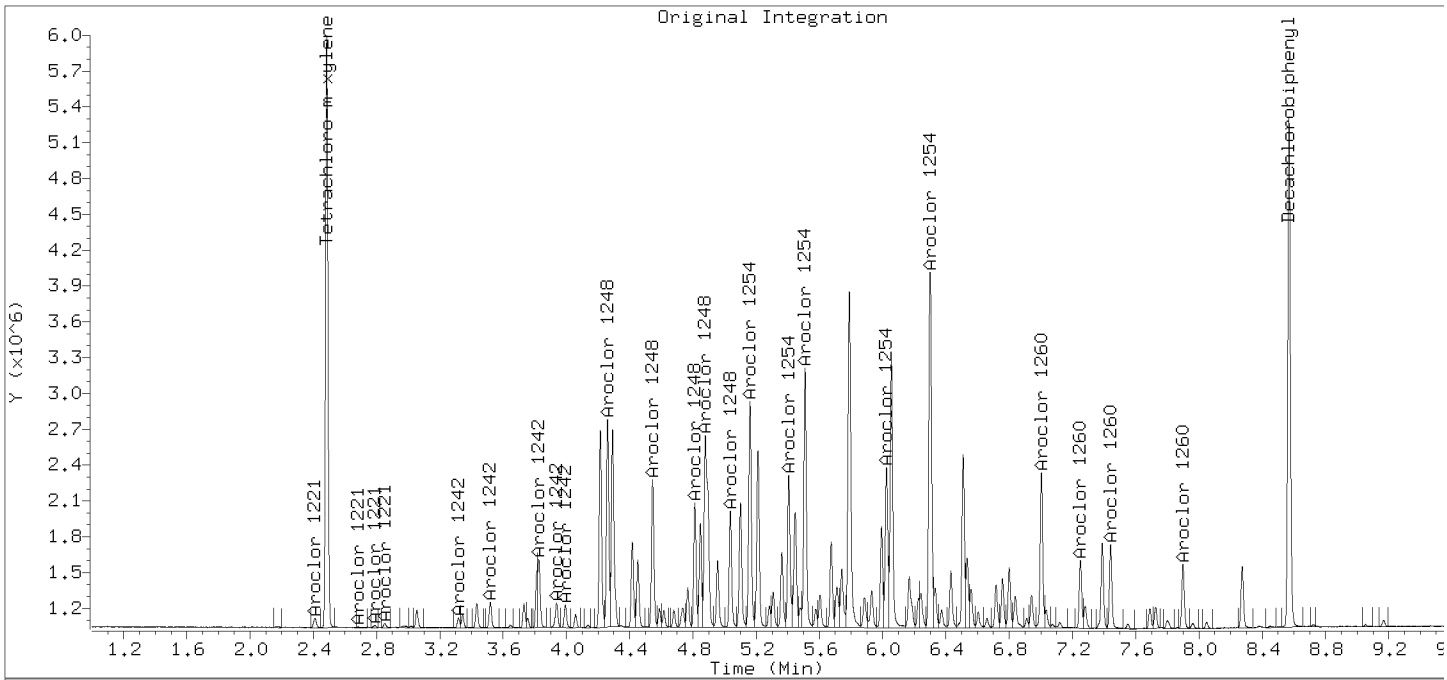
Operator: BLM

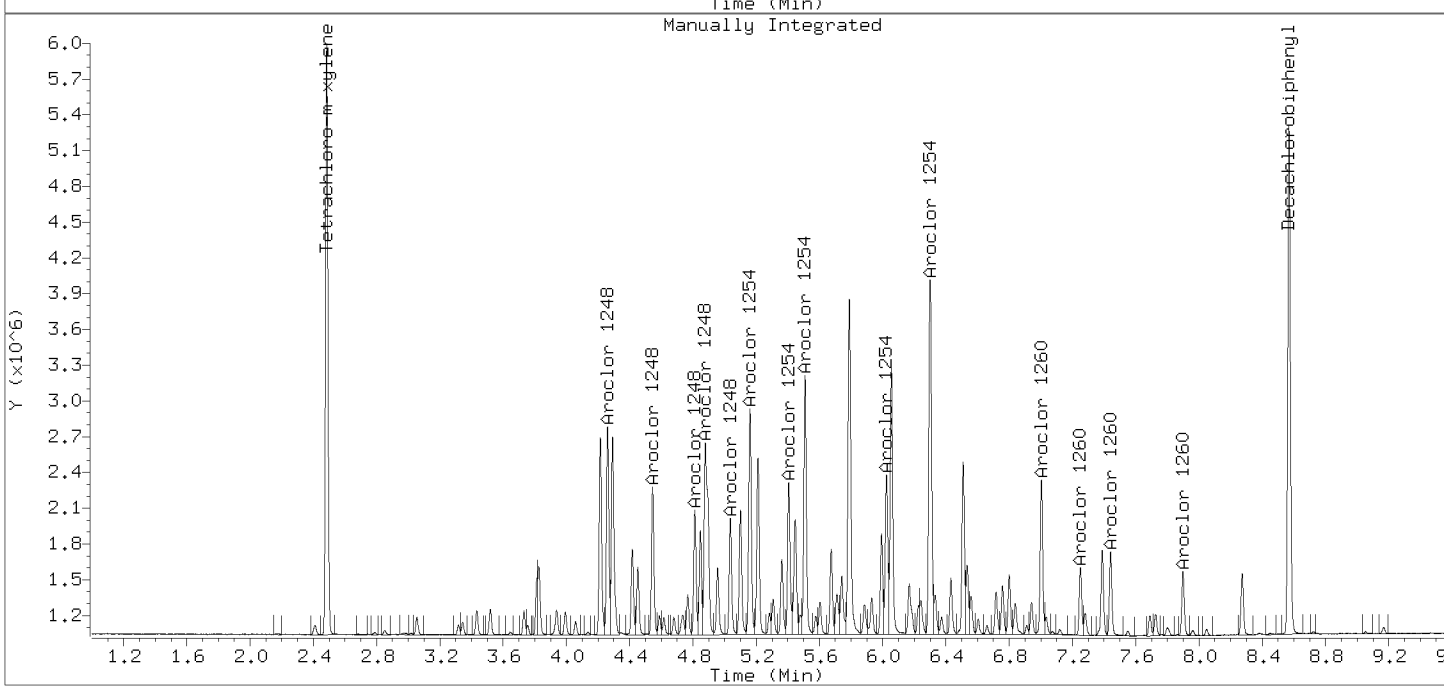
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 20:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	84115	0	
Aroclor 1016	84115	0	
Aroclor 1016	84115	0	
Aroclor 1016	84115	0	
Aroclor 1016	84115	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	45202	0	
Aroclor 1232	45202	0	
Aroclor 1232	45202	0	
Aroclor 1232	45202	0	

Aroclor 1232	45202	0	
Aroclor 1242	84115	0	
Aroclor 1242	84115	0	
Aroclor 1242	84115	0	
Aroclor 1242	84115	0	
Aroclor 1242	84115	0	
Aroclor 1248	1848906	1865610	BA
Aroclor 1248	1848906	1865610	BA
Aroclor 1248	1848906	1865610	BA
Aroclor 1248	1848906	1865610	BA
Aroclor 1248	1848906	1865610	BA
Aroclor 1254	2208389	2211635	BA
Aroclor 1254	2208389	2211635	BA
Aroclor 1254	2208389	2211635	BA
Aroclor 1254	2208389	2211635	BA
Aroclor 1254	2208389	2211635	BA
Aroclor 1260	3780656	0	BA
Aroclor 1260	3780656	0	BA
Aroclor 1260	3780656	0	BA
Aroclor 1260	3780656	0	BA
Aroclor 1260	3780656	0	BA
Tetrachloro-m-xylene	5169760	5169760	
Decachlorobiphenyl	4990852	4990852	

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SAMPLE NO.

SW1-170613-01-SMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40151614003
Date Analyzed: 03/30/2018 20:17
Lab File ID: 033018.B\033018021.D
Initial wt/vol: 9.9906 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	410	
11097-69-1	PCB-1254 (Aroclor 1254)	424	
11096-82-5	PCB-1260 (Aroclor 1260)	163	
1336-36-3	PCB, Total	996	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018021.D
Lab Smp Id: 40151614003 Client Smp ID: SW1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614003 x3,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.991	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	51941	37456	0.721	0.11		
2.485	3479276	3343854	0.961	7.69	$ 2 Tetrachloro-m-xylene	
2.789	13208	11127	0.842	0.02		
2.851	26764	20318	0.759	0.05		
3.015	10650	7325	0.688	0.02		
3.054	76342	68567	0.898	0.16		
3.138	10852	4530	0.417	0.02		
3.318	40359	38750	0.960	0.08		
3.344	56027	53183	0.949	0.12		
3.432	91560	88326	0.965	0.20		
3.519	120325	106720	0.887	0.26		
3.643	15575	12673	0.814	0.03		
3.732	97101	93657	0.965	0.21		
3.756	42995	39876	0.927	0.09		
3.827	443297	259910	0.586	0.98		
3.940	137887	110328	0.800	0.30		
3.994	135078	121289	0.898	0.29		
4.058	67233	54213	0.806	0.14		
4.136	25304	17381	0.687	0.05		
4.215	850004	782309	0.920	1.87		
4.261	899549	866951	0.964	1.98	6 Aroclor 1248	BA
4.292	1200625	998726	0.832	2.65		
4.350	15192	13551	0.892	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	337179	313574	0.930	0.74	
4.452	314433	276287	0.879	0.69	
4.546	728448	679807	0.933	1.61	6 Aroclor 1248
4.589	108289	100805	0.931	0.23	
4.617	80568	70221	0.872	0.17	
4.680	107129	94699	0.884	0.23	
4.737	151576	119096	0.786	0.33	
4.767	232550	219289	0.943	0.51	
4.813	652217	613852	0.941	1.44	6 Aroclor 1248
4.847	365262	346838	0.950	0.80	
4.879	1643195	967733	0.589	3.63	6 Aroclor 1248
4.956	395829	333495	0.843	0.87	
5.037	563909	517329	0.917	1.24	6 Aroclor 1248
5.100	807618	720111	0.892	1.78	
5.161	1530290	1309235	0.856	3.38	7 Aroclor 1254
5.212	1255367	1098025	0.875	2.77	
5.283	149007	142234	0.955	0.32	
5.307	255260	214632	0.841	0.56	
5.362	459870	419735	0.913	1.01	
5.406	1027865	926270	0.901	2.27	7 Aroclor 1254
5.446	821027	671595	0.818	1.81	
5.478	130200	122474	0.941	0.28	
5.510	1609302	1400936	0.871	3.55	7 Aroclor 1254
5.577	124973	114591	0.917	0.27	
5.604	217099	193127	0.890	0.48	
5.675	593009	554006	0.934	1.31	
5.709	320871	260881	0.813	0.70	
5.742	456523	344909	0.756	1.00	
5.791	2585899	1888137	0.730	5.71	
5.887	242676	190532	0.785	0.53	
5.931	298932	233706	0.782	0.66	
5.993	640773	603274	0.941	1.41	
6.025	1174272	1021352	0.870	2.59	7 Aroclor 1254
6.055	1871242	1575210	0.842	4.13	
6.168	458177	311237	0.679	1.01	
6.228	180046	190346	1.057	0.39	
6.241	270617	222415	0.822	0.59	
6.300	2804928	2241172	0.799	6.20	7 Aroclor 1254
6.334	269979	254864	0.944	0.59	
6.375	139486	111420	0.799	0.30	
6.431	400068	330985	0.827	0.88	
6.509	1035755	971978	0.938	2.29	
6.535	480423	447317	0.931	1.06	
6.560	244804	218721	0.893	0.54	
6.605	101939	86533	0.849	0.22	
6.659	63159	52598	0.833	0.13	
6.718	305523	267518	0.876	0.67	
6.759	320739	281034	0.876	0.70	
6.801	387509	337587	0.871	0.85	
6.838	223513	172935	0.774	0.49	
6.912	50800	47439	0.934	0.11	
6.942	198259	175954	0.887	0.43	
7.005	899843	842098	0.936	1.99	8 Aroclor 1260
7.035	102488	91061	0.889	0.22	
7.076	22092	18017	0.816	0.04	
7.121	36386	27332	0.751	0.08	
7.251	420925	376807	0.895	0.93	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	142536	121498	0.852	0.31	
7.389	469262	407862	0.869	1.03	
7.441	421064	378822	0.900	0.93	8 Aroclor 1260
7.550	24208	22540	0.931	0.05	
7.688	105901	91888	0.868	0.23	
7.726	116436	102721	0.882	0.25	
7.802	67639	40321	0.596	0.14	
7.900	296114	248720	0.840	0.65	8 Aroclor 1260
7.960	37273	26127	0.701	0.08	
8.049	71601	52843	0.738	0.15	
8.274	282225	243261	0.862	0.62	
8.381	14769	9764	0.661	0.03	
8.570	3545195	2954408	0.833	8.38	$ 12 Decachlorobiphenyl
9.052	11383	9776	0.859	0.02	
9.165	30906	25309	0.819	0.06	
	45213773	38622245		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018021.D
Lab Smp Id: 40151614003 Client Smp ID: SW1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614003 x3,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.991	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3479275	0.02822	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	899549	0.38393	580	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	728447	0.17552	260	0.00- 20.00	80.98	BA
4.812	4.812	0.000	652217	0.32128	480	0.00- 20.00	72.50	BA
4.878	4.879	-0.001	1643195	0.32620	490	0.00- 20.00	182.67	BA
5.036	5.038	-0.002	563909	0.15714	240	0.00- 20.00	62.69	BA
Average of Peak Concentrations =					410			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1530290	0.29231	440	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1027864	0.23898	360	0.00- 20.00	67.17	BA
5.509	5.510	-0.001	1609302	0.20722	310	0.00- 20.00	105.16	BA
6.025	6.027	-0.002	1174271	0.24114	360	0.00- 20.00	76.74	BA
6.300	6.299	0.001	2804928	0.43106	650	0.00- 20.00	183.29	BA
Average of Peak Concentrations =					420			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	899842	0.08986	130	0.00- 20.00	32.08	BA
7.250	7.251	-0.001	420925	0.08806	130	0.00- 20.00	15.01	BA
7.441	7.443	-0.002	421064	0.14444	220	0.00- 20.00	15.01	BA
7.899	7.901	-0.002	296114	0.11222	170	0.00- 20.00	10.56	BA
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3545195	0.03236	48			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018021.D

Date : 30-MAR-2018 20:17

Client ID: SW1-170613-01-SMB-0

Instrument: 40GCSJ.i

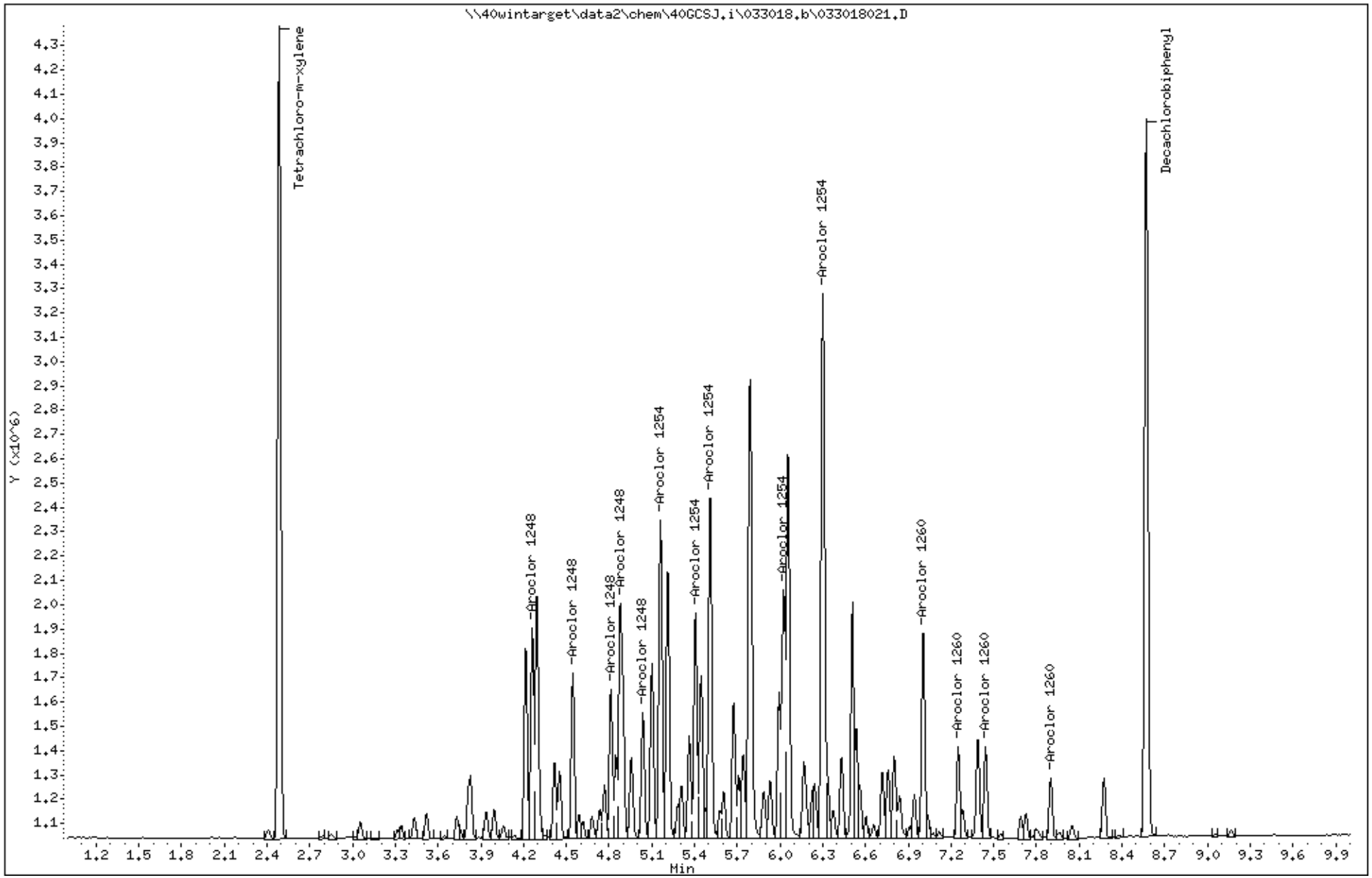
Sample Info: 40151614003 x3,

Volume Injected (uL): 1.0

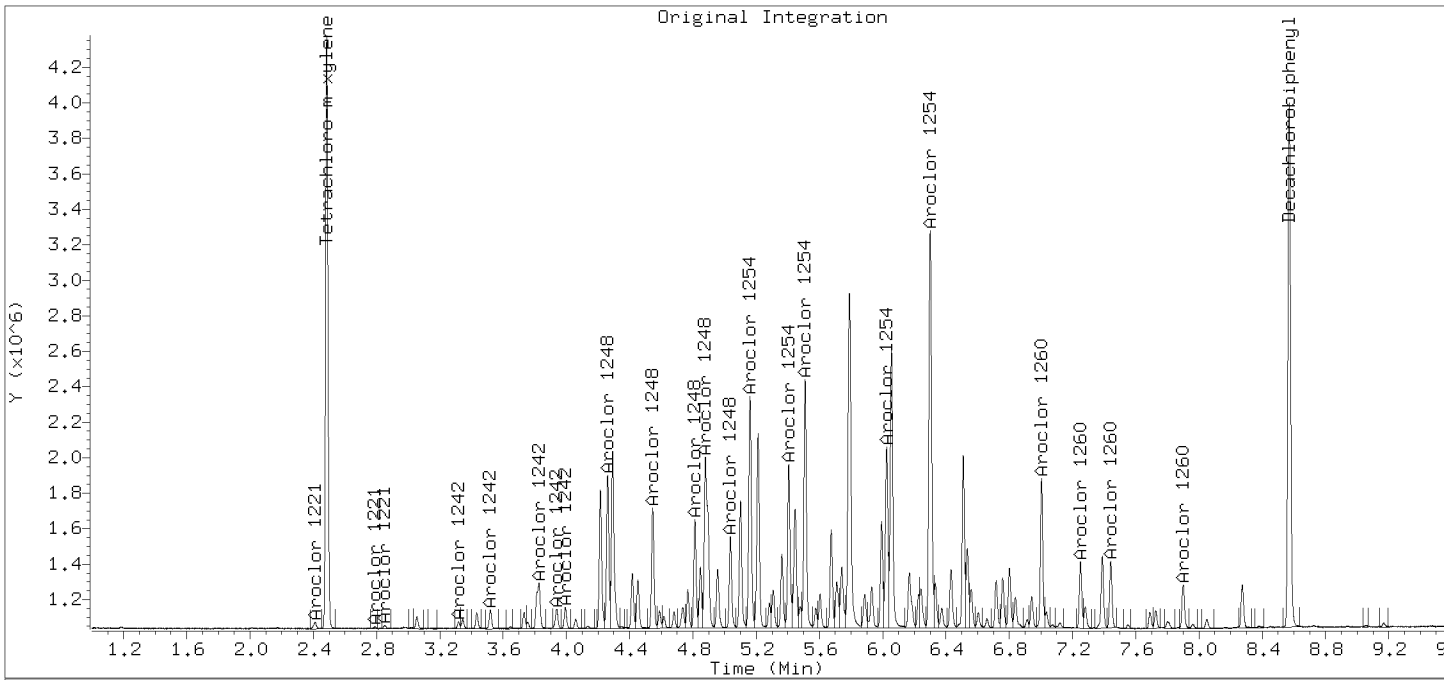
Operator: BLM

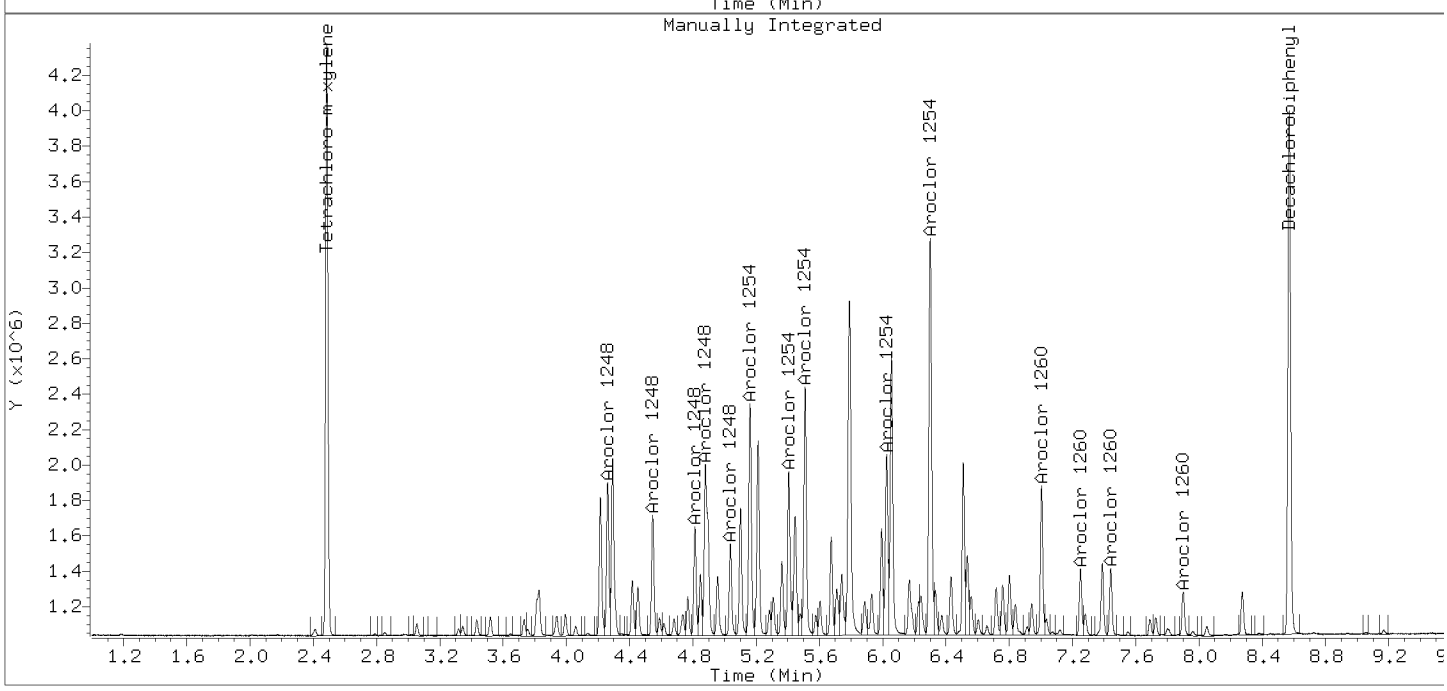
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 20:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	40359	0	
Aroclor 1016	40359	0	
Aroclor 1016	40359	0	
Aroclor 1016	40359	0	
Aroclor 1016	40359	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	26763	0	
Aroclor 1232	26763	0	
Aroclor 1232	26763	0	
Aroclor 1232	26763	0	

Aroclor 1232	26763	0	
Aroclor 1242	40359	0	
Aroclor 1242	40359	0	
Aroclor 1242	40359	0	
Aroclor 1242	40359	0	
Aroclor 1242	40359	0	
Aroclor 1248	892700	899549	BA
Aroclor 1248	892700	899549	BA
Aroclor 1248	892700	899549	BA
Aroclor 1248	892700	899549	BA
Aroclor 1248	892700	899549	BA
Aroclor 1254	1523471	1530290	BA
Aroclor 1254	1523471	1530290	BA
Aroclor 1254	1523471	1530290	BA
Aroclor 1254	1523471	1530290	BA
Aroclor 1254	1523471	1530290	BA
Aroclor 1260	2798992	0	BA
Aroclor 1260	2798992	0	BA
Aroclor 1260	2798992	0	BA
Aroclor 1260	2798992	0	BA
Aroclor 1260	2798992	0	BA
Tetrachloro-m-xylene	3479275	3479275	
Decachlorobiphenyl	3545195	3545195	

==========

SAMPLE NO.

SW1-170613-01-SMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40151614004
Date Analyzed: 03/30/2018 20:32
Lab File ID: 033018.B\033018022.D
Initial wt/vol: 9.986 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	12.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	36.1	J
1336-36-3	PCB, Total	48.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018022.D
Lab Smp Id: 40151614004 Client Smp ID: SW1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614004,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.187	20685	12713	0.615	0.07			
2.196	49758	32245	0.648	0.19			
2.408	24074	19341	0.803	0.09		1 Aroclor 1221	
2.484	9044480	8746043	0.967	34.73	$	2 Tetrachloro-m-xylene	
2.786	17020	14953	0.879	0.06		1 Aroclor 1221	
2.861	18544	13662	0.737	0.07		1 Aroclor 1221	
2.975	12740	12236	0.960	0.04			
3.020	14912	14636	0.982	0.05			
3.433	14563	12067	0.829	0.05			
3.520	16456	15567	0.946	0.06		4 Aroclor 1232	BA
3.733	24771	13254	0.535	0.09			
3.815	50722	34630	0.683	0.19		4 Aroclor 1232	BA
3.935	18146	11558	0.637	0.06		4 Aroclor 1232	BA
3.994	22854	16966	0.742	0.08		4 Aroclor 1232	BA
4.215	83748	78487	0.937	0.32			
4.239	87853	87541	0.996	0.33			
4.261	81056	79826	0.985	0.31		6 Aroclor 1248	CO
4.293	110341	85422	0.774	0.42			
4.418	37683	33247	0.882	0.14			
4.453	39988	28667	0.717	0.15			
4.545	83260	69169	0.831	0.31		6 Aroclor 1248	CO
4.735	15339	13177	0.859	0.05			
4.767	59131	51638	0.873	0.22			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	64266	54832	0.853	0.24	6 Aroclor 1248
4.846	58447	52813	0.904	0.22	
4.880	130960	73865	0.564	0.50	6 Aroclor 1248
4.956	36233	26240	0.724	0.13	
5.036	55919	49399	0.883	0.21	6 Aroclor 1248
5.057	14417	13301	0.923	0.05	
5.100	67387	49551	0.735	0.25	
5.162	111708	90119	0.807	0.42	7 Aroclor 1254
5.211	93928	78114	0.832	0.36	
5.279	21644	16313	0.754	0.08	
5.313	76054	66870	0.879	0.29	
5.346	88811	51730	0.582	0.34	
5.405	75450	61195	0.811	0.28	7 Aroclor 1254
5.451	346988	316102	0.911	1.33	
5.508	132826	107263	0.808	0.51	7 Aroclor 1254
5.603	36590	19924	0.545	0.14	
5.673	46835	32683	0.698	0.17	
5.709	32529	23367	0.718	0.12	
5.744	39896	26851	0.673	0.15	
5.790	181208	142557	0.787	0.69	
5.836	30738	27832	0.905	0.11	
5.894	41922	23185	0.553	0.16	
5.929	24383	16589	0.680	0.09	
5.993	52502	46662	0.889	0.20	
6.024	85395	74466	0.872	0.32	7 Aroclor 1254
6.056	185582	147166	0.793	0.71	
6.171	61918	29904	0.483	0.23	
6.226	39430	24744	0.628	0.15	
6.300	221951	183489	0.827	0.85	8 Aroclor 1260
6.333	28983	24061	0.830	0.11	
6.370	20500	13145	0.641	0.07	
6.432	50948	31250	0.613	0.19	
6.508	294492	257065	0.873	1.13	
6.533	42762	46951	1.098	0.16	
6.560	49631	34531	0.696	0.19	
6.643	48978	29945	0.611	0.18	
6.718	51258	37872	0.739	0.19	
6.757	77770	44395	0.571	0.29	
6.799	38607	34502	0.894	0.14	
6.838	258262	221442	0.857	0.99	
6.913	40784	39033	0.957	0.15	
6.942	106939	90261	0.844	0.41	
7.004	195279	172654	0.884	0.74	8 Aroclor 1260
7.031	12173	14187	1.165	0.04	
7.053	13828	14701	1.063	0.05	
7.122	48774	32740	0.671	0.18	
7.250	59334	45945	0.774	0.22	8 Aroclor 1260
7.277	37524	22926	0.611	0.14	
7.328	13674	11505	0.841	0.05	
7.388	670522	581931	0.868	2.57	
7.441	568388	482774	0.849	2.18	8 Aroclor 1260
7.579	12276	11108	0.905	0.04	
7.694	16787	17326	1.032	0.06	
7.726	309408	270616	0.875	1.18	
7.799	97140	70853	0.729	0.37	
7.862	34046	29518	0.867	0.13	
7.898	286517	225444	0.787	1.10	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.048	62019	50582	0.816	0.23	
8.272	701838	632525	0.901	2.69	
8.378	17855	14739	0.825	0.06	
8.570	9235164	7727318	0.837	35.89	$ 12 Decachlorobiphenyl
8.726	29637	23835	0.804	0.11	
8.943	13089	10446	0.798	0.05	
9.055	60273	47895	0.795	0.23	
9.466	13857	10579	0.763	0.05	
9.955	17547	13935	0.794	0.06	
	26040903	22864706		100.000	

Total unknown % area = 20

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018022.D
Lab Smp Id: 40151614004 Client Smp ID: SW1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614004,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	9044479	0.07336	37			

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3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

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4 Aroclor 1232 CAS #: 1114-16-5

Qualifier signal(s) failed ratio test. BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	81055	0.03459	17	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	83259	0.02006	10	0.00- 20.00	102.72	CO
4.812	4.812	0.000	64265	0.03166	16	0.00- 20.00	79.29	CO
4.880	4.879	0.001	130959	0.02600	13	0.00- 20.00	161.57	CO
5.035	5.038	-0.003	55919	0.01558	7.8	0.00- 20.00	68.99	CO
Average of Peak Concentrations =					13			
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	221950	0.02504	12	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	195279	0.01950	9.8	0.00- 20.00	87.98	CO
7.250	7.251	-0.001	59334	0.01241	6.2	0.00- 20.00	26.73	CO
7.441	7.443	-0.002	568388	0.19498	98	0.00- 20.00	256.09	CO
7.898	7.901	-0.003	286517	0.10858	54	0.00- 20.00	129.09	CO
Average of Peak Concentrations =					36			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9235164	0.08429	42			

QC Flag Legend

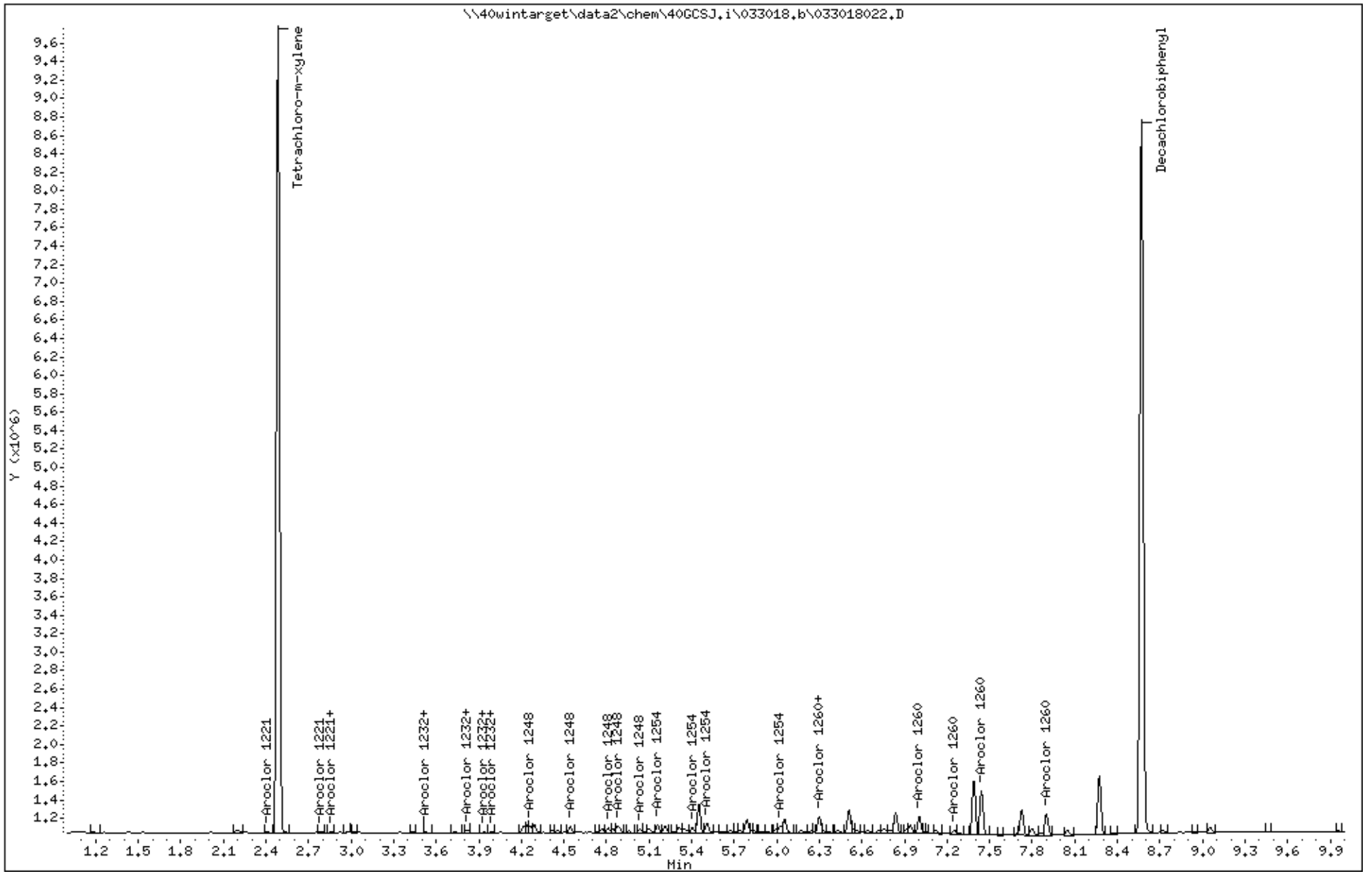
M - Compound response manually integrated.

Review Codes Legend

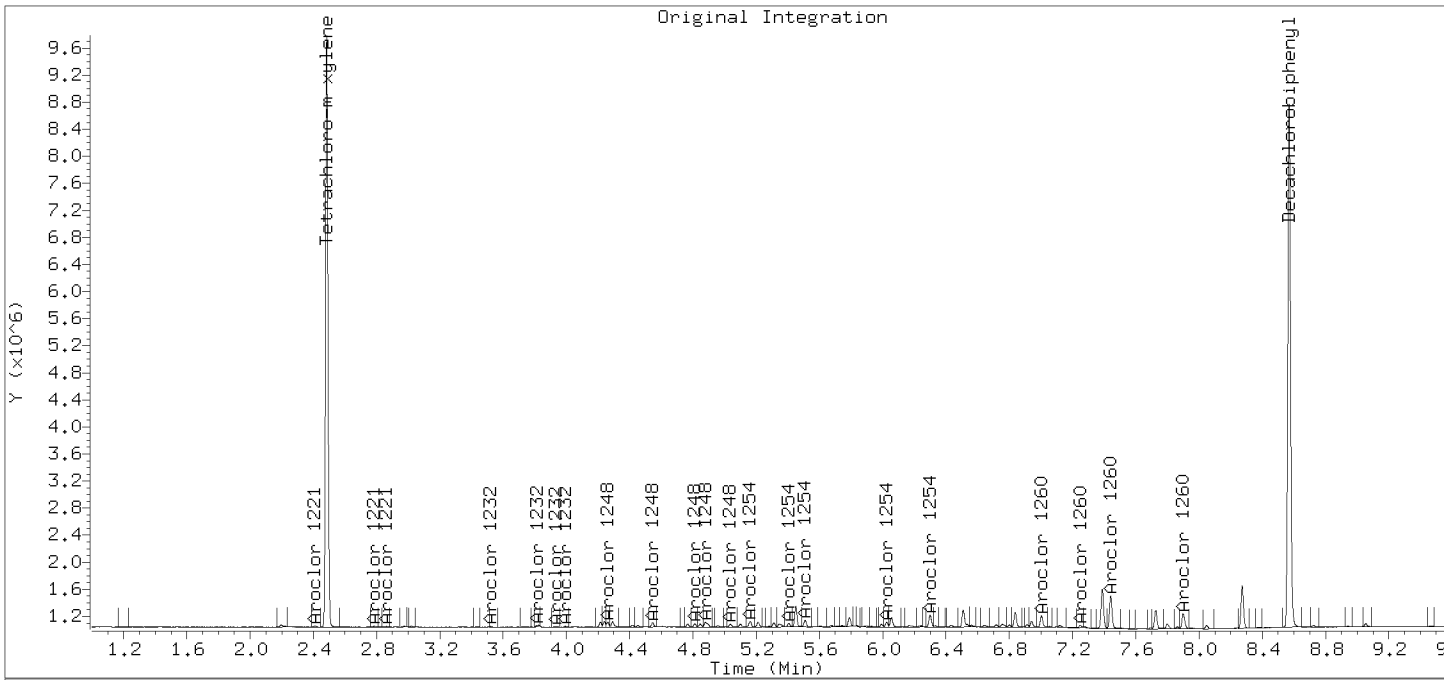
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

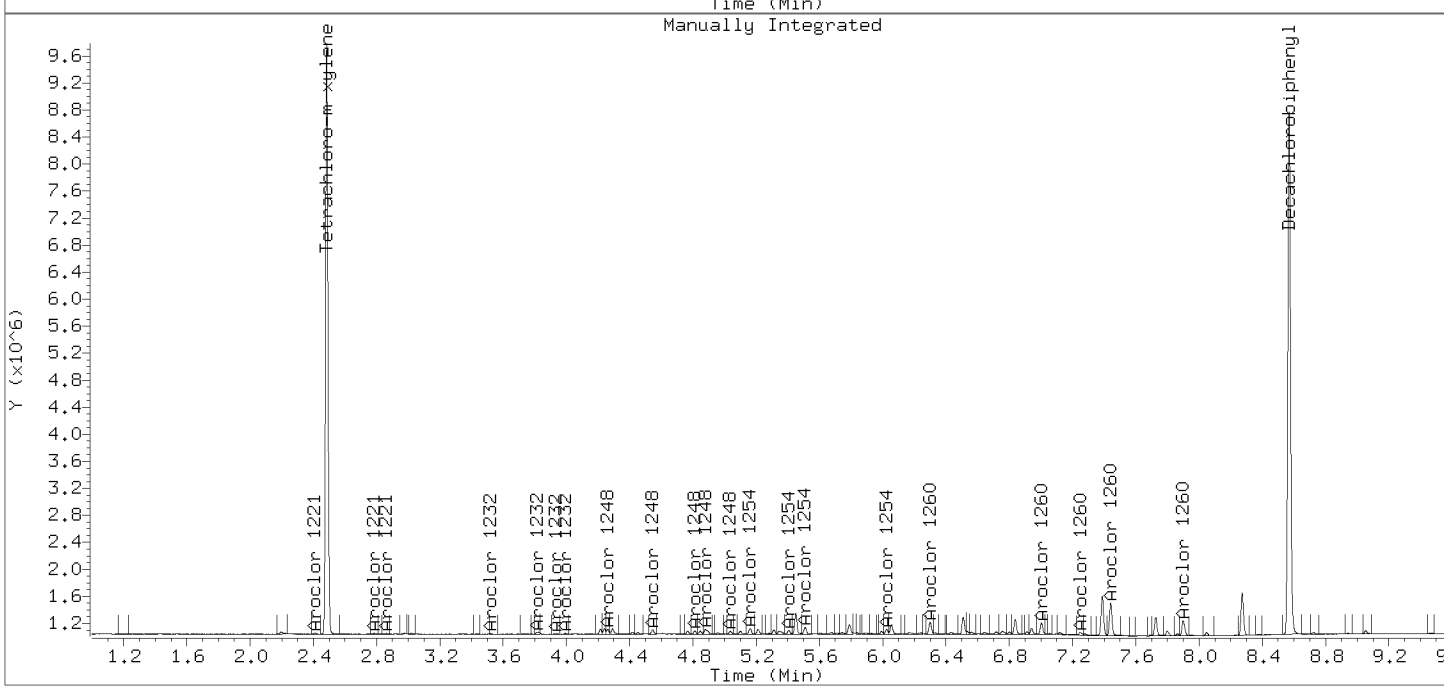
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018022.D
Date : 30-MAR-2018 20:32
Client ID: SW1-170613-01-SMB-0
Sample Info: 40151614004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 20:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	76440	81055	CO
Aroclor 1248	76440	81055	CO
Aroclor 1248	76440	81055	CO
Aroclor 1248	76440	81055	CO
Aroclor 1248	76440	81055	CO
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	213411	221950	CO
Aroclor 1260	213411	221950	CO
Aroclor 1260	213411	221950	CO
Aroclor 1260	213411	221950	CO
Aroclor 1260	213411	221950	CO
Tetrachloro-m-xylene	9044479	9044479	
Decachlorobiphenyl	9235164	9235164	

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SAMPLE NO.

SW1-170613-01-LMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40151614005
Date Analyzed: 04/02/2018 16:48
Lab File ID: 040218.B\040218010.D
Initial wt/vol: 10.0269 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	274	
11097-69-1	PCB-1254 (Aroclor 1254)	182	
11096-82-5	PCB-1260 (Aroclor 1260)	92.8	
1336-36-3	PCB, Total	548	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218010.D
Lab Smp Id: 40151614005 Client Smp ID: SW1-170613-01-LMB-0
Inj Date : 02-APR-2018 16:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614005,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.427	10429	8434	0.809	0.01		
2.199	65588	34748	0.530	0.08		
2.413	77130	58350	0.757	0.10		
2.485	10058188	9512974	0.946	13.14	$ 2 Tetrachloro-m-xylene	
2.787	32858	31027	0.944	0.04		
2.851	68705	53664	0.781	0.08		
2.973	15712	13072	0.832	0.02		
3.055	78913	77536	0.983	0.10		
3.317	86091	79662	0.925	0.11		
3.344	98545	93743	0.951	0.12		
3.433	161729	155580	0.962	0.21		
3.519	162757	150446	0.924	0.21		
3.644	28157	23096	0.820	0.03		
3.731	193701	189401	0.978	0.25		
3.755	69834	67351	0.964	0.09		
3.826	907285	561395	0.619	1.18		
3.939	191851	147484	0.769	0.25		
3.993	156145	149383	0.957	0.20		
4.058	96726	80213	0.829	0.12		
4.139	21915	17268	0.788	0.02		
4.215	1815964	1637923	0.902	2.37		
4.261	1805226	1674147	0.927	2.35	6 Aroclor 1248	BA
4.293	1947404	1611437	0.827	2.54		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	765915	745557	0.973	1.00	
4.452	564031	503125	0.892	0.73	
4.545	1226979	1131732	0.922	1.60	6 Aroclor 1248
4.591	129226	113915	0.882	0.16	
4.617	134233	112142	0.835	0.17	
4.681	122209	110110	0.901	0.15	
4.735	169733	116234	0.685	0.22	
4.768	334355	308429	0.922	0.43	
4.813	1324277	1233682	0.932	1.73	6 Aroclor 1248
4.848	954269	914898	0.959	1.24	
4.879	3437092	2253404	0.656	4.49	6 Aroclor 1248
4.957	482109	421542	0.874	0.63	
5.037	1245668	1138535	0.914	1.62	6 Aroclor 1248
5.101	966660	856599	0.886	1.26	
5.161	2098092	1782546	0.850	2.74	7 Aroclor 1254
5.211	1809405	1605160	0.887	2.36	
5.283	171432	161699	0.943	0.22	
5.309	324818	269500	0.830	0.42	
5.363	707959	637093	0.900	0.92	
5.407	1456496	1255341	0.862	1.90	7 Aroclor 1254
5.450	2515749	2196630	0.873	3.28	
5.509	2244985	1942803	0.865	2.93	7 Aroclor 1254
5.576	103583	83547	0.807	0.13	
5.604	298782	251437	0.842	0.39	
5.675	483958	442729	0.915	0.63	
5.713	325110	237952	0.732	0.42	
5.742	486721	350288	0.720	0.63	
5.791	3422489	2654505	0.776	4.47	
5.887	335588	218273	0.650	0.43	
5.930	185485	148585	0.801	0.24	
5.993	517995	498780	0.963	0.67	
6.024	1641170	1431175	0.872	2.14	7 Aroclor 1254
6.056	1927724	1626671	0.844	2.51	
6.168	471583	360506	0.764	0.61	
6.226	219710	210074	0.956	0.28	
6.241	235352	219824	0.934	0.30	
6.299	2960918	2444592	0.826	3.86	7 Aroclor 1254
6.333	307228	274515	0.894	0.40	
6.373	163265	134020	0.821	0.21	
6.432	237483	186946	0.787	0.31	
6.510	1275950	1167563	0.915	1.66	
6.536	622794	590276	0.948	0.81	
6.560	215929	201889	0.935	0.28	
6.604	110596	94409	0.854	0.14	
6.640	12143	21124	1.740	0.01	
6.659	67174	54864	0.817	0.08	
6.717	261223	234575	0.898	0.34	
6.758	255845	210624	0.823	0.33	
6.801	387376	338664	0.874	0.50	
6.839	364838	291393	0.799	0.47	
6.911	73820	69720	0.944	0.09	
6.941	200667	176997	0.882	0.26	
7.004	893187	816056	0.914	1.16	8 Aroclor 1260
7.034	90028	77158	0.857	0.11	
7.075	13506	13588	1.006	0.01	
7.100	7597	9678	1.274	0.00	
7.121	36441	28516	0.783	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	364127	312955	0.859	0.47	8 Aroclor 1260
7.281	126738	106582	0.841	0.16	
7.389	1264126	1090853	0.863	1.65	
7.442	1169805	1021739	0.873	1.52	8 Aroclor 1260
7.553	12607	14419	1.144	0.01	
7.691	76933	79263	1.030	0.10	
7.727	322083	279114	0.867	0.42	
7.800	152807	114383	0.749	0.19	
7.864	21984	20649	0.939	0.02	
7.900	469294	381637	0.813	0.61	8 Aroclor 1260
7.963	34144	20507	0.601	0.04	
8.051	67430	54071	0.802	0.08	
8.275	1121334	987526	0.881	1.46	
8.380	21969	15391	0.701	0.02	
8.571	10560842	9160011	0.867	14.30	$ 12 Decachlorobiphenyl
8.728	30898	22680	0.734	0.04	
8.943	13760	10481	0.762	0.01	
8.992	9830	6433	0.654	0.01	
9.057	40165	28270	0.704	0.05	
9.167	36572	22519	0.616	0.04	
9.467	21797	14636	0.671	0.02	
9.731	10944	9157	0.837	0.01	
9.958	23746	15552	0.655	0.03	
	76523737	66199351		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218010.D
Lab Smp Id: 40151614005 Client Smp ID: SW1-170613-01-LMB-0
Inj Date : 02-APR-2018 16:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614005,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	10058188	0.08158	41			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1805226	0.77048	380	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1226978	0.29564	150	0.00- 20.00	67.97	BA
4.812	4.812	0.000	1324277	0.65233	320	0.00- 20.00	73.36	BA
4.878	4.879	-0.001	3437091	0.68231	340	0.00- 20.00	190.40	BA
5.037	5.038	-0.001	1245667	0.34712	170	0.00- 20.00	69.00	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2098091	0.40076	200	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1456496	0.33864	170	0.00- 20.00	69.42	BA
5.508	5.510	-0.002	2244984	0.28908	140	0.00- 20.00	107.00	BA
6.023	6.027	-0.004	1641170	0.33702	170	0.00- 20.00	78.22	BA
6.299	6.299	0.000	2960917	0.45503	230	0.00- 20.00	141.12	BA
Average of Peak Concentrations =					180			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	893186	0.08919	44	0.00- 20.00	30.17	BA
7.251	7.251	0.000	364126	0.07618	38	0.00- 20.00	12.30	BA
7.441	7.443	-0.002	1169805	0.40129	200	0.00- 20.00	39.51	BA
7.899	7.901	-0.002	469294	0.17785	89	0.00- 20.00	15.85	BA
Average of Peak Concentrations =					93			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10560842	0.09639	48			

QC Flag Legend

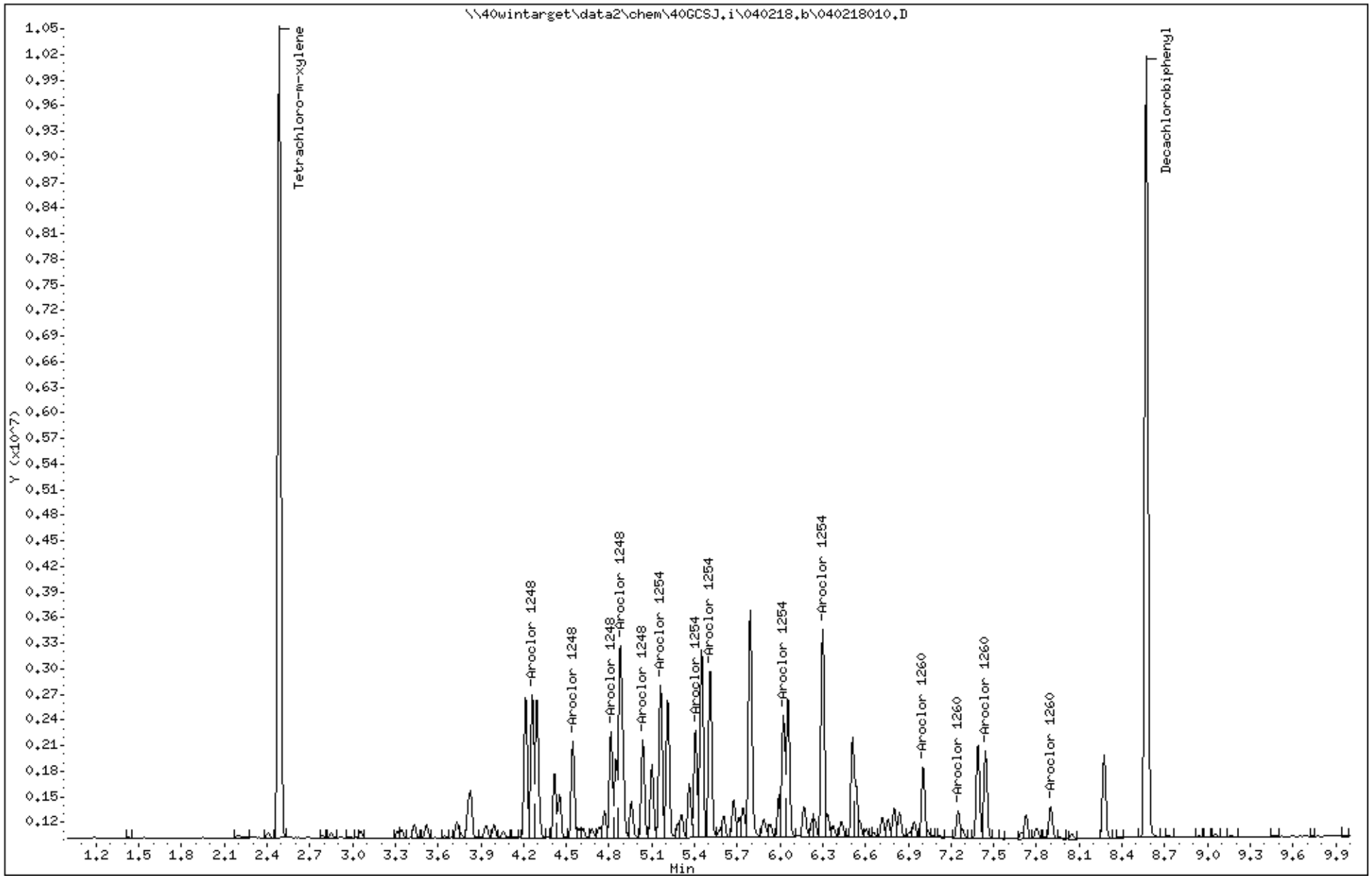
M - Compound response manually integrated.

Review Codes Legend

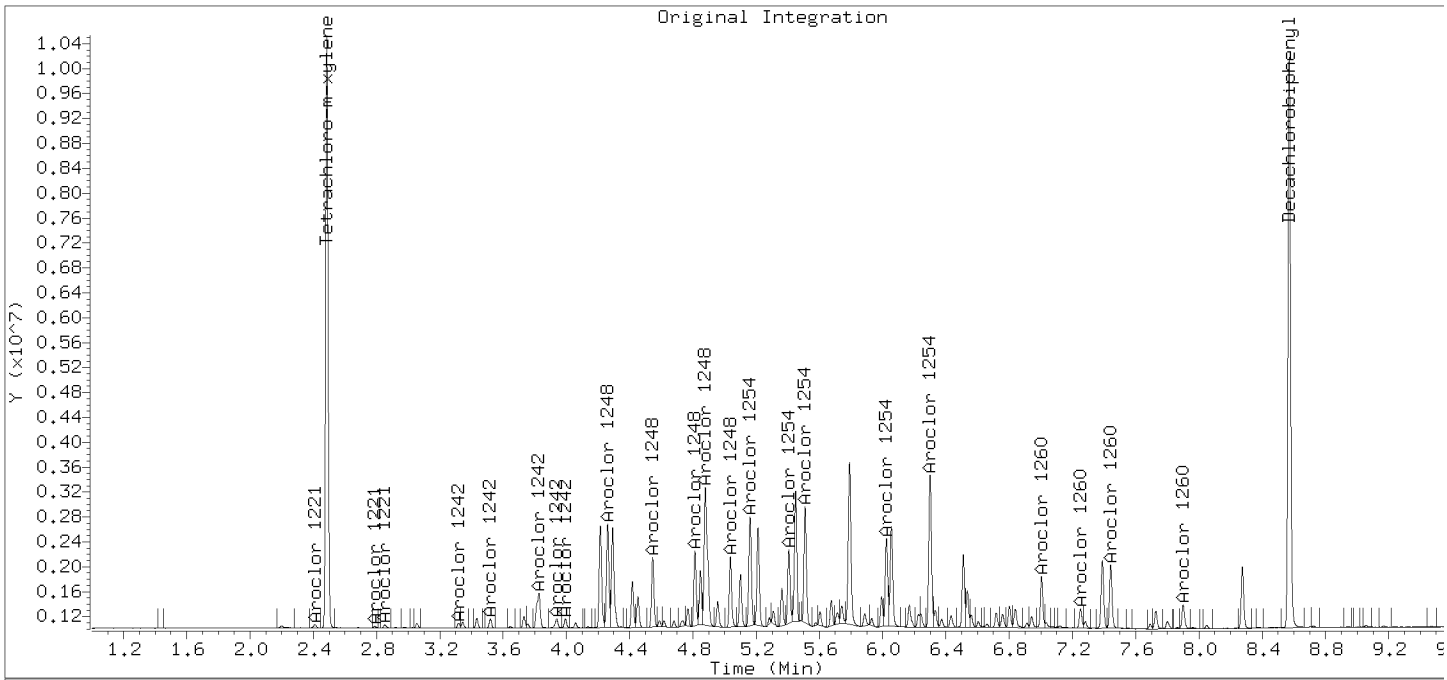
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

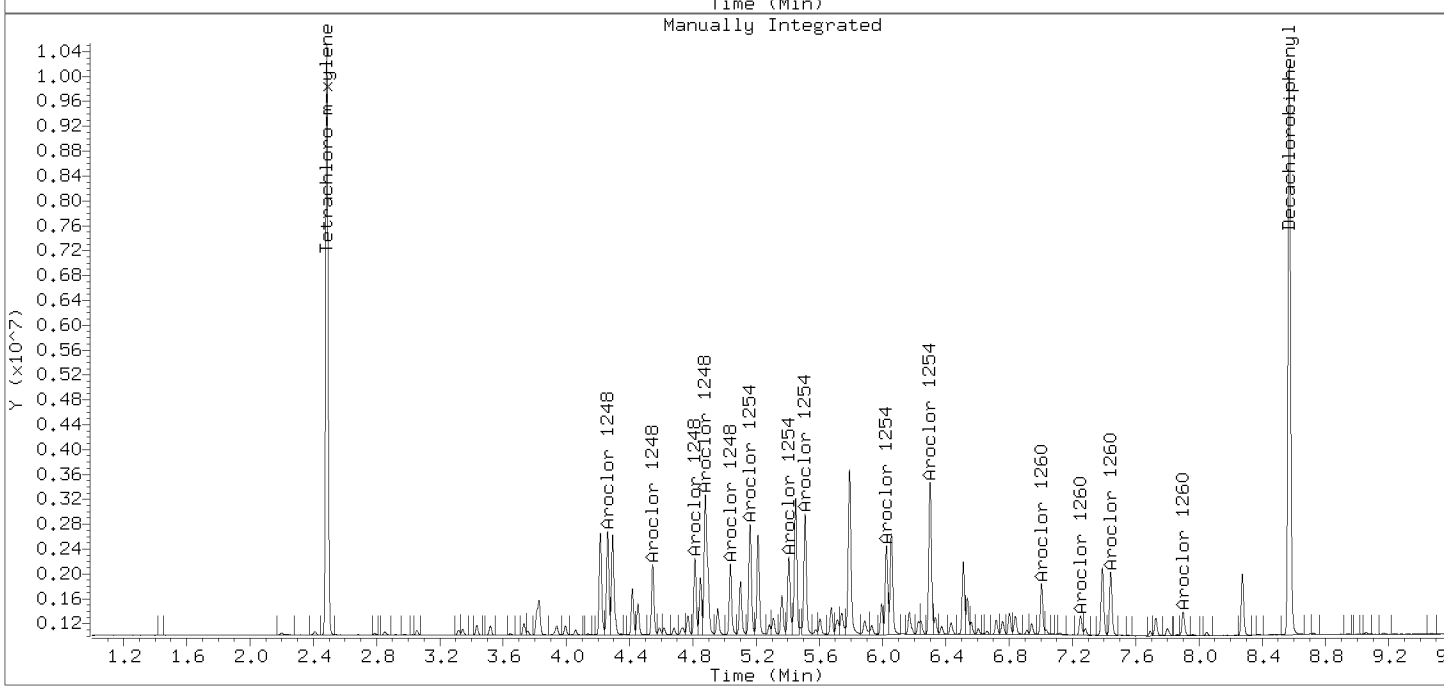
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218010.D
Date : 02-APR-2018 16:48
Client ID: SW1-170613-01-LMB-0
Sample Info: 40151614005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	86090	0	
Aroclor 1016	86090	0	
Aroclor 1016	86090	0	
Aroclor 1016	86090	0	
Aroclor 1016	86090	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	68704	0	
Aroclor 1232	68704	0	
Aroclor 1232	68704	0	
Aroclor 1232	68704	0	

Aroclor 1232	68704	0	
Aroclor 1242	86090	0	
Aroclor 1242	86090	0	
Aroclor 1242	86090	0	
Aroclor 1242	86090	0	
Aroclor 1242	86090	0	
Aroclor 1248	1788852	1805226	BA
Aroclor 1248	1788852	1805226	BA
Aroclor 1248	1788852	1805226	BA
Aroclor 1248	1788852	1805226	BA
Aroclor 1248	1788852	1805226	BA
Aroclor 1254	1976537	2098091	BA
Aroclor 1254	1976537	2098091	BA
Aroclor 1254	1976537	2098091	BA
Aroclor 1254	1976537	2098091	BA
Aroclor 1254	1976537	2098091	BA
Aroclor 1260	2942069	0	BA
Aroclor 1260	2942069	0	BA
Aroclor 1260	2942069	0	BA
Aroclor 1260	2942069	0	BA
Aroclor 1260	2942069	0	BA
Tetrachloro-m-xylene	10058188	10058188	
Decachlorobiphenyl	10560842	10560842	

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SAMPLE NO.

SW1-170613-01-LMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151614006
Date Analyzed: 03/27/2018 17:37
Lab File ID: 032718.B\032718018.D
Initial wt/vol: 9.9847 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.3	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	570	
11097-69-1	PCB-1254 (Aroclor 1254)	545	
11096-82-5	PCB-1260 (Aroclor 1260)	206	
1336-36-3	PCB, Total	1320	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718018.D
Lab Smp Id: 40151614006 Client Smp ID: SW1-170613-01-LMB-0
Inj Date : 27-MAR-2018 17:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614006 x3,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.985	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	11271	10274	0.912	0.01		
2.410	27254	19677	0.722	0.04	1 Aroclor 1221	
2.485	3712277	3544767	0.955	6.38	$ 2 Tetrachloro-m-xylene	
2.784	9511	10114	1.063	0.01	1 Aroclor 1221	
2.854	13763	12490	0.908	0.02	1 Aroclor 1221	
3.054	38572	33058	0.857	0.06		
3.318	42444	39200	0.924	0.07		
3.344	64105	60928	0.950	0.11		
3.433	121051	115307	0.953	0.20		
3.520	136582	130333	0.954	0.23		
3.643	35050	25335	0.723	0.06		
3.732	175455	170883	0.974	0.30		
3.756	56363	54225	0.962	0.09		
3.814	527966	308260	0.584	0.90		
3.938	180467	148420	0.822	0.31		
3.994	129117	115257	0.893	0.22		
4.058	68817	62375	0.906	0.11		
4.134	16949	12620	0.745	0.02		
4.215	1467227	1304781	0.889	2.52		
4.261	1501153	1409568	0.939	2.58	6 Aroclor 1248	BA
4.292	2209669	1881564	0.852	3.80		
4.348	31616	21960	0.695	0.05		
4.418	335235	307657	0.918	0.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.453	364289	332247	0.912	0.62	
4.546	1091115	1003755	0.920	1.87	6 Aroclor 1248
4.588	238774	218371	0.915	0.41	
4.617	84860	69350	0.817	0.14	
4.680	224195	205306	0.916	0.38	
4.736	301339	253319	0.841	0.51	
4.767	384819	364962	0.948	0.66	
4.813	847072	795472	0.939	1.45	6 Aroclor 1248
4.848	488513	468659	0.959	0.84	
4.879	2103330	1067206	0.507	3.61	6 Aroclor 1248
4.957	701952	625719	0.891	1.20	
5.037	566567	510942	0.902	0.97	6 Aroclor 1248
5.101	1319254	1172494	0.889	2.27	
5.160	2095741	1757872	0.839	3.60	7 Aroclor 1254
5.212	1772003	1566123	0.884	3.04	
5.284	260252	252802	0.971	0.44	
5.307	395987	329913	0.833	0.68	
5.363	521043	486435	0.934	0.89	
5.406	1285364	1121880	0.873	2.21	7 Aroclor 1254
5.447	1002122	836404	0.835	1.72	
5.480	76184	100620	1.321	0.13	
5.509	2162822	1830220	0.846	3.72	7 Aroclor 1254
5.578	245884	224048	0.911	0.42	
5.604	226001	192956	0.854	0.38	
5.675	911159	861656	0.946	1.56	
5.712	304936	225056	0.738	0.52	
5.743	706999	574461	0.813	1.21	
5.790	3305038	2417861	0.732	5.68	
5.885	292607	232466	0.794	0.50	
5.931	425585	348030	0.818	0.73	
5.994	998061	933044	0.935	1.71	
6.024	1188791	1034483	0.870	2.04	7 Aroclor 1254
6.055	2399911	2050609	0.854	4.12	
6.168	421020	326115	0.775	0.72	
6.228	206734	229570	1.110	0.35	
6.242	314927	258195	0.820	0.54	
6.301	3851024	3188533	0.828	7.10	7 Aroclor 1254
6.332	334340	313074	0.936	0.57	
6.373	150625	121007	0.803	0.25	
6.432	431116	363344	0.843	0.74	
6.509	1530140	1353559	0.885	2.63	
6.535	637564	598915	0.939	1.09	
6.560	332670	301621	0.907	0.57	
6.605	117649	96581	0.821	0.20	
6.660	62982	54066	0.858	0.10	
6.717	265005	224818	0.848	0.45	
6.760	307738	272526	0.886	0.52	
6.801	475286	421497	0.887	0.81	
6.838	188392	142961	0.759	0.32	
6.913	47214	48572	1.029	0.08	
6.943	221871	201596	0.909	0.38	
7.004	1113671	995400	0.894	1.91	8 Aroclor 1260
7.035	138519	121082	0.874	0.23	
7.074	22827	19708	0.863	0.03	
7.252	558160	495695	0.888	0.96	8 Aroclor 1260
7.281	191425	160449	0.838	0.32	
7.389	523637	451111	0.861	0.90	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.442	520600	455000	0.874	0.89	8 Aroclor 1260
7.552	35576	29992	0.843	0.06	
7.690	156209	139221	0.891	0.26	
7.726	88900	73888	0.831	0.15	
7.802	76362	47506	0.622	0.13	
7.901	377063	318831	0.846	0.64	8 Aroclor 1260
7.960	51717	32774	0.634	0.08	
8.047	48338	34333	0.710	0.08	
8.274	280605	242494	0.864	0.48	
8.381	14100	10375	0.736	0.02	
8.571	3767376	3124375	0.829	6.48	$ 12 Decachlorobiphenyl
8.939	9309	7354	0.790	0.01	
9.168	36549	29385	0.804	0.06	
	58111723	49569317		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718018.D
Lab Smp Id: 40151614006 Client Smp ID: SW1-170613-01-LMB-0
Inj Date : 27-MAR-2018 17:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614006 x3,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.985	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.484	2.484	0.000	3712277	0.03011	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1501153	0.64070	960	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1091114	0.26290	390	0.00- 20.00	72.69	BA
4.812	4.812	0.000	847071	0.41726	630	0.00- 20.00	56.43	BA
4.879	4.879	0.000	2103329	0.41754	630	0.00- 20.00	140.11	BA
5.036	5.038	-0.002	566567	0.15788	240	0.00- 20.00	37.74	BA
Average of Peak Concentrations =					570			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2095740	0.40031	600	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1285364	0.29885	450	0.00- 20.00	61.33	CO
5.509	5.510	-0.001	2162822	0.27850	420	0.00- 20.00	103.20	CO
6.023	6.027	-0.004	1188790	0.24412	370	0.00- 20.00	56.72	CO
6.301	6.299	0.002	3851023	0.59182	890	0.00- 20.00	183.75	CO
Average of Peak Concentrations =					540			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1113670	0.11121	170	0.00- 20.00	28.92	BA
7.251	7.251	0.000	558159	0.11677	180	0.00- 20.00	14.49	BA
7.441	7.443	-0.002	520599	0.17859	270	0.00- 20.00	13.52	BA
7.900	7.901	-0.001	377062	0.14289	210	0.00- 20.00	9.79	BA
Average of Peak Concentrations =					210			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3767375	0.03439	52			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718018.D

Date : 27-MAR-2018 17:37

Client ID: SW1-170613-01-LMB-0

Instrument: 40GCSJ.i

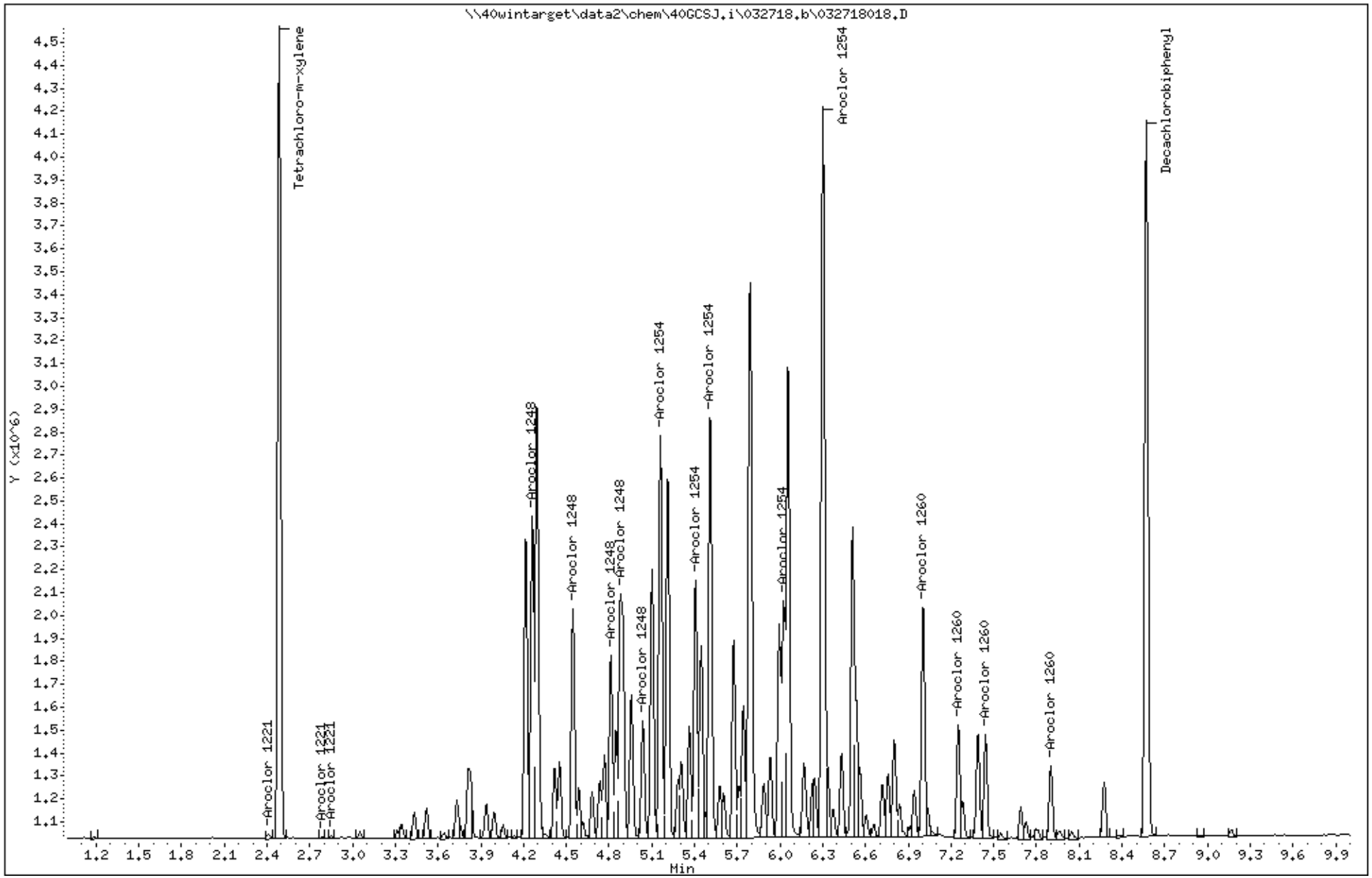
Sample Info: 40151614006 x3,

Volume Injected (uL): 1.0

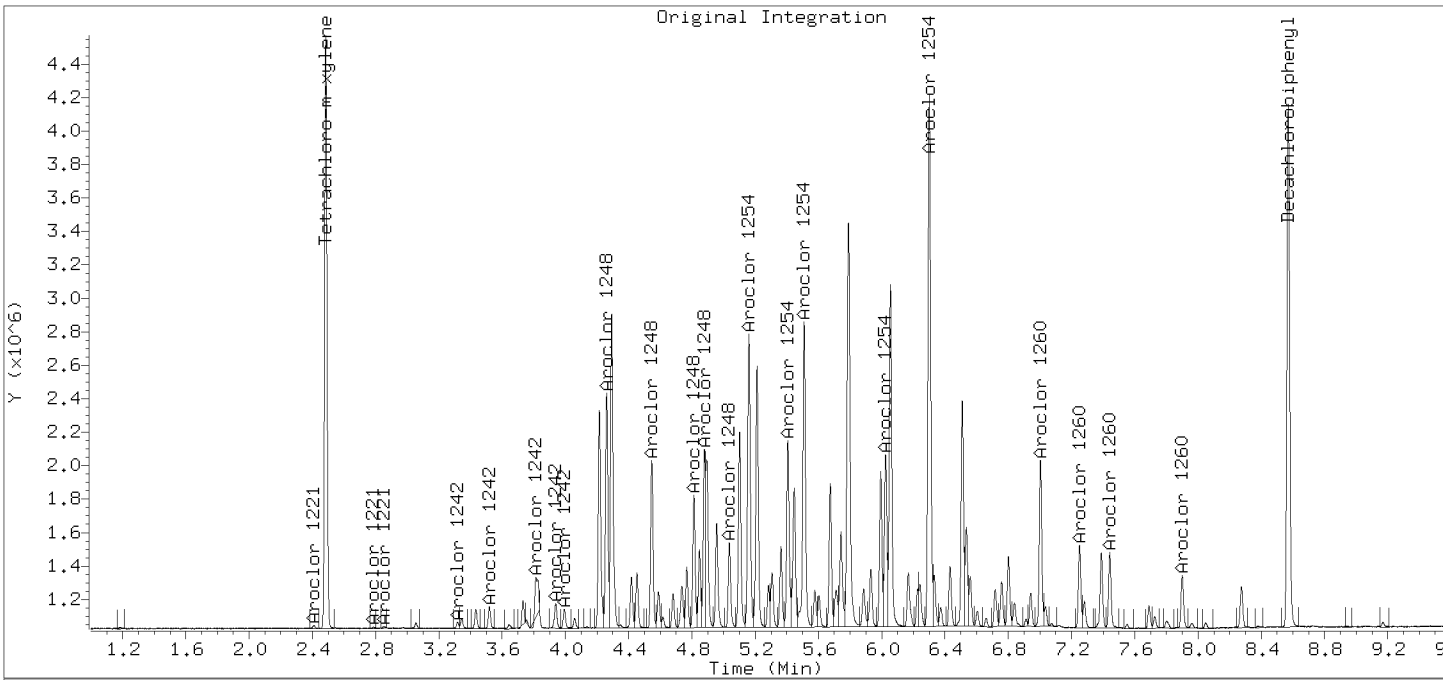
Operator: BLM

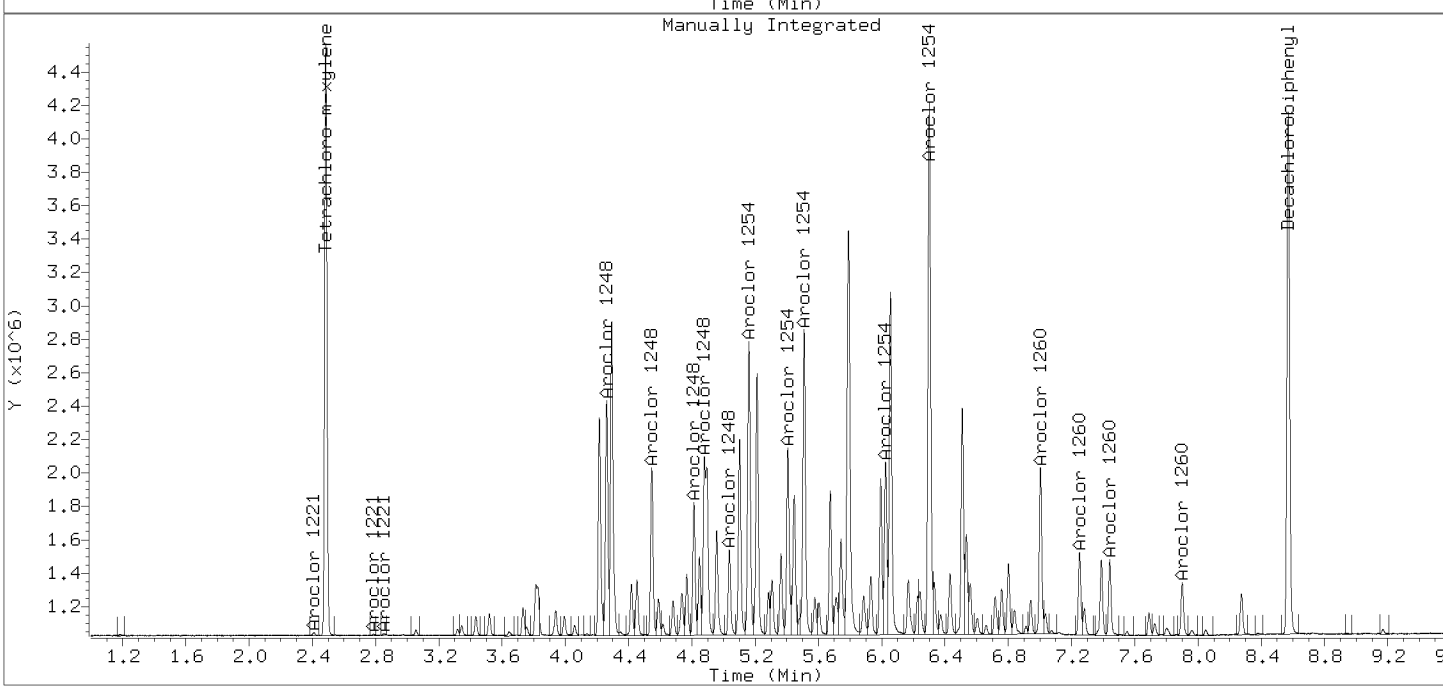
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 17:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	42444	0	
Aroclor 1016	42444	0	
Aroclor 1016	42444	0	
Aroclor 1016	42444	0	
Aroclor 1016	42444	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	13762	0	
Aroclor 1232	13762	0	
Aroclor 1232	13762	0	
Aroclor 1232	13762	0	

Aroclor 1232	13762	0	
Aroclor 1242	42444	0	
Aroclor 1242	42444	0	
Aroclor 1242	42444	0	
Aroclor 1242	42444	0	
Aroclor 1242	42444	0	
Aroclor 1248	1491875	1501153	BA
Aroclor 1248	1491875	1501153	BA
Aroclor 1248	1491875	1501153	BA
Aroclor 1248	1491875	1501153	BA
Aroclor 1248	1491875	1501153	BA
Aroclor 1254	2081383	2095740	CO
Aroclor 1254	2081383	2095740	CO
Aroclor 1254	2081383	2095740	CO
Aroclor 1254	2081383	2095740	CO
Aroclor 1254	2081383	2095740	CO
Aroclor 1260	3827380	0	BA
Aroclor 1260	3827380	0	BA
Aroclor 1260	3827380	0	BA
Aroclor 1260	3827380	0	BA
Aroclor 1260	3827380	0	BA
Tetrachloro-m-xylene	3712277	3712277	
Decachlorobiphenyl	3767375	3767375	

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SAMPLE NO.

SW1-170613-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151614007
Date Analyzed: 03/20/2018 19:23
Lab File ID: 032018.B\032018027.D
Initial wt/vol: 9.9789 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	178	
11097-69-1	PCB-1254 (Aroclor 1254)	105	
11096-82-5	PCB-1260 (Aroclor 1260)	22.8	J
1336-36-3	PCB, Total	305	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018027.D
Lab Smp Id: 40151614007 Client Smp ID: SW1-170613-01-BB-04
Inj Date : 20-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614007,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	19395	15634	0.806	0.03		
1.427	17627	12394	0.703	0.03		
1.484	9935	5442	0.548	0.01		
1.536	17554	11721	0.668	0.03		
2.410	38421	31475	0.819	0.07		
2.484	12242556	11757266	0.960	23.09	$ 2 Tetrachloro-m-xylene	
2.787	27633	22589	0.817	0.05		
2.858	39789	26954	0.677	0.07		
2.916	11452	9503	0.830	0.02		
2.975	33584	24738	0.737	0.06		
3.018	29613	27648	0.934	0.05		
3.055	15168	13792	0.909	0.02		
3.317	33120	33482	1.011	0.06		
3.344	26700	24081	0.902	0.04		
3.434	74581	69845	0.936	0.13		
3.519	85019	78071	0.918	0.15		
3.646	22196	20962	0.944	0.04		
3.731	156038	127822	0.819	0.28		
3.826	1051230	754342	0.718	1.94		
3.939	24669	18774	0.761	0.04		
3.993	103678	96864	0.934	0.19		
4.057	71333	53636	0.752	0.13		
4.137	20417	18019	0.883	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	638628	527523	0.826	1.18	
4.261	1017196	977455	0.961	1.88	6 Aroclor 1248
4.292	1308120	1115554	0.853	2.41	
4.416	507465	489933	0.965	0.93	
4.452	284128	251774	0.886	0.52	
4.546	918786	845590	0.920	1.69	6 Aroclor 1248
4.588	93222	83589	0.897	0.17	
4.615	81180	68633	0.845	0.15	
4.652	22258	18410	0.827	0.04	
4.680	86363	69342	0.803	0.15	
4.738	90790	60773	0.669	0.16	
4.767	261354	242489	0.928	0.48	
4.812	909962	874822	0.961	1.68	6 Aroclor 1248
4.847	572368	546103	0.954	1.05	
4.878	2450226	1692522	0.691	4.53	6 Aroclor 1248
4.956	280599	210378	0.750	0.51	
5.036	672241	612552	0.911	1.24	6 Aroclor 1248
5.100	753210	648492	0.861	1.39	
5.160	932314	789555	0.847	1.72	7 Aroclor 1254
5.211	871916	752894	0.863	1.61	
5.284	132599	116191	0.876	0.24	
5.307	232167	194165	0.836	0.42	
5.362	434072	343934	0.792	0.80	
5.406	821927	736363	0.896	1.51	7 Aroclor 1254
5.447	742540	608154	0.819	1.37	
5.480	84297	81101	0.962	0.15	
5.509	1660466	1440385	0.867	3.07	7 Aroclor 1254
5.575	66855	50980	0.763	0.12	
5.604	221847	167864	0.757	0.41	
5.674	314225	275579	0.877	0.58	
5.711	277832	199755	0.719	0.51	
5.741	356969	266270	0.746	0.66	
5.789	2025129	1498538	0.740	3.74	
5.886	200944	136641	0.680	0.37	
5.931	169146	101774	0.602	0.31	
5.992	344542	303445	0.881	0.63	
6.024	1027778	878535	0.855	1.90	7 Aroclor 1254
6.054	705145	556634	0.789	1.30	
6.168	290139	185450	0.639	0.53	
6.227	105968	110610	1.044	0.19	
6.242	168664	130315	0.773	0.31	
6.300	1619872	1318098	0.814	2.99	7 Aroclor 1254
6.332	159731	140421	0.879	0.29	
6.373	108334	73716	0.680	0.20	
6.432	189017	136475	0.722	0.34	
6.509	752927	683195	0.907	1.39	
6.534	341289	240400	0.704	0.63	
6.605	22887	27218	1.189	0.04	
6.628	28221	25417	0.901	0.05	
6.662	39821	33177	0.833	0.07	
6.716	180289	145155	0.805	0.33	
6.758	182667	153681	0.841	0.33	
6.800	200317	177824	0.888	0.37	
6.838	124176	87888	0.708	0.22	
6.914	23730	21935	0.924	0.04	
6.941	193505	173956	0.899	0.35	
7.003	319949	291082	0.910	0.59	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.034	52052	49305	0.947	0.09	
7.123	40652	31124	0.766	0.07	
7.250	168456	147900	0.878	0.31	8 Aroclor 1260
7.281	96672	67446	0.698	0.17	
7.339	23003	18432	0.801	0.04	
7.389	227912	204021	0.895	0.42	
7.442	217210	191747	0.883	0.40	8 Aroclor 1260
7.580	12271	12598	1.027	0.02	
7.615	21817	15538	0.712	0.04	
7.692	36380	36456	1.002	0.06	
7.726	102578	90978	0.887	0.18	
7.809	84821	50545	0.596	0.15	
7.901	106978	87788	0.821	0.19	8 Aroclor 1260
8.048	166790	142902	0.857	0.30	
8.274	221901	192740	0.869	0.41	
8.378	18516	13474	0.728	0.03	
8.452	9940	8836	0.889	0.01	
8.570	10567538	9172950	0.868	19.54	$ 12 Decachlorobiphenyl
8.723	23147	17501	0.756	0.04	
8.941	10910	8848	0.811	0.02	
9.052	15666	13132	0.838	0.02	
9.167	22759	17126	0.752	0.04	
9.470	18745	10626	0.567	0.03	
9.962	13522	9279	0.686	0.02	
	54074246	46857050		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018027.D
Lab Smp Id: 40151614007 Client Smp ID: SW1-170613-01-BB-04
Inj Date : 20-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614007,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12242556	0.09929	50			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1017195	0.43415	220	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	918786	0.22138	110	0.00- 20.00	90.33	BA
4.812	4.812	0.000	909961	0.44824	220	0.00- 20.00	89.46	BA
4.878	4.879	-0.001	2450226	0.48640	240	0.00- 20.00	240.88	BA
5.036	5.038	-0.002	672241	0.18733	94	0.00- 20.00	66.09	BA
Average of Peak Concentrations =					180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	932313	0.17808	89	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	821926	0.19110	96	0.00- 20.00	88.16	BA
5.508	5.510	-0.002	1660465	0.21381	110	0.00- 20.00	178.10	BA
6.023	6.027	-0.004	1027777	0.21106	100	0.00- 20.00	110.24	BA
6.299	6.299	0.000	1619872	0.24894	120	0.00- 20.00	173.75	BA
Average of Peak Concentrations =					100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	319948	0.03195	16	0.00- 20.00	19.75	BA
7.250	7.251	-0.001	168456	0.03524	18	0.00- 20.00	10.40	BA
7.441	7.443	-0.002	217209	0.07451	37	0.00- 20.00	13.41	BA
7.900	7.901	-0.001	106977	0.04054	20	0.00- 20.00	6.60	BA
Average of Peak Concentrations =					23			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10567537	0.09645	48			

QC Flag Legend

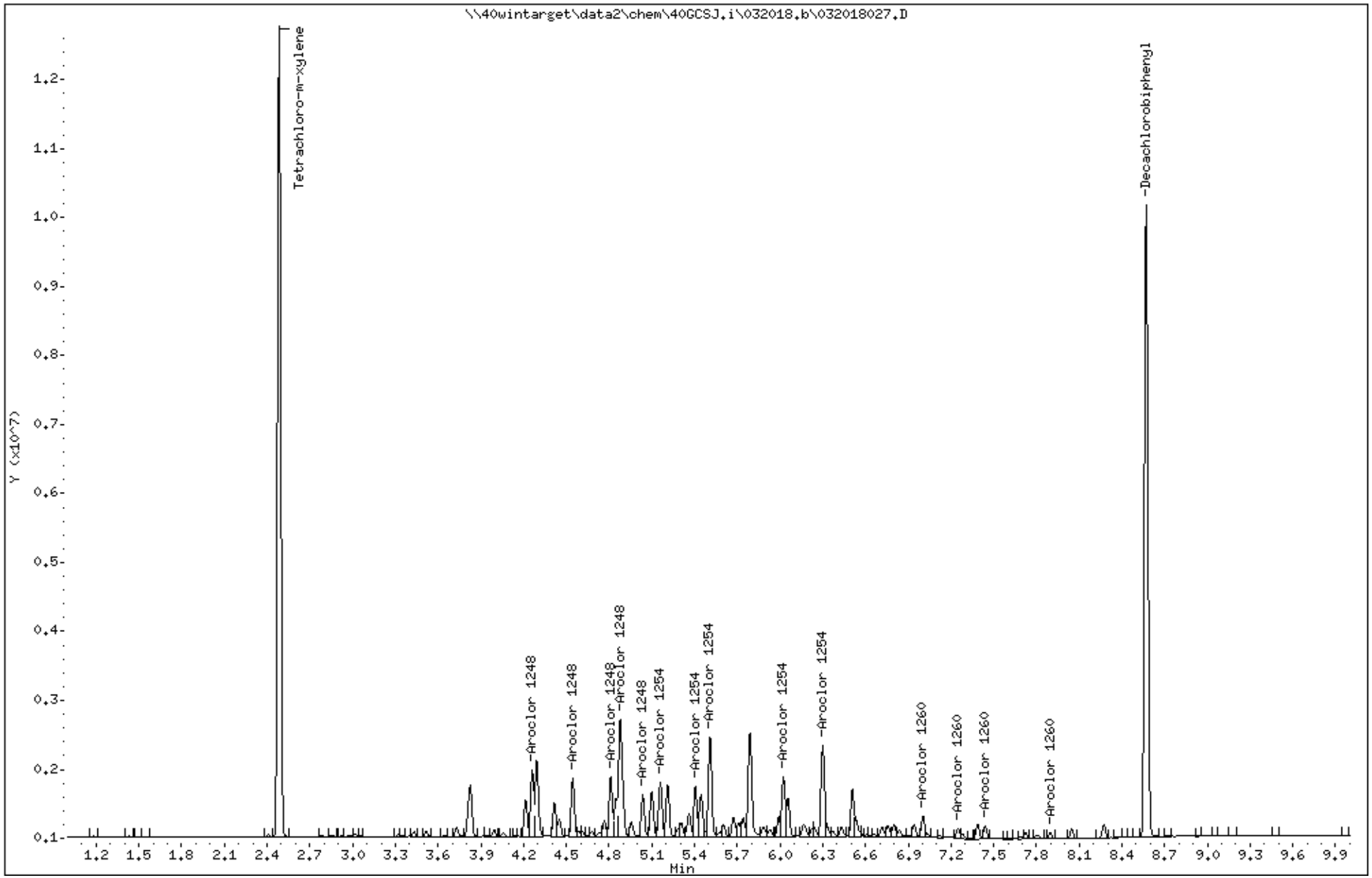
M - Compound response manually integrated.

Review Codes Legend

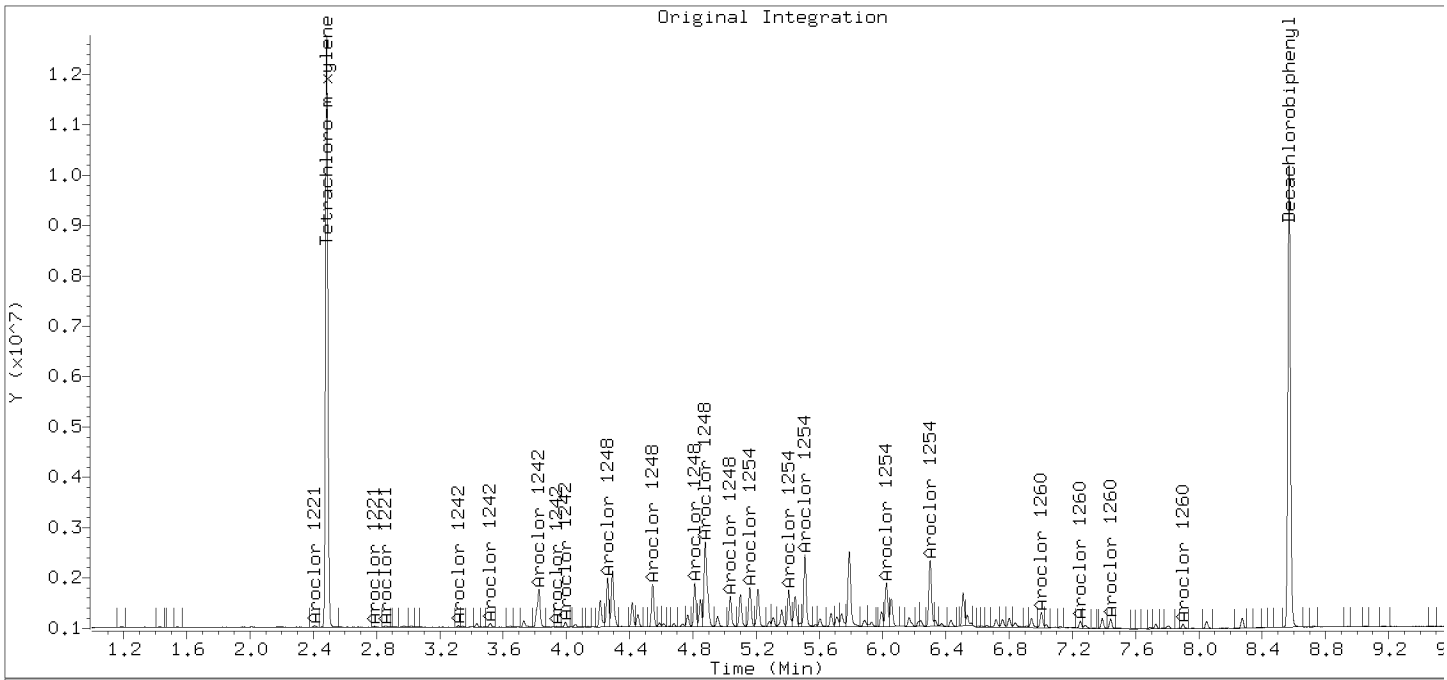
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

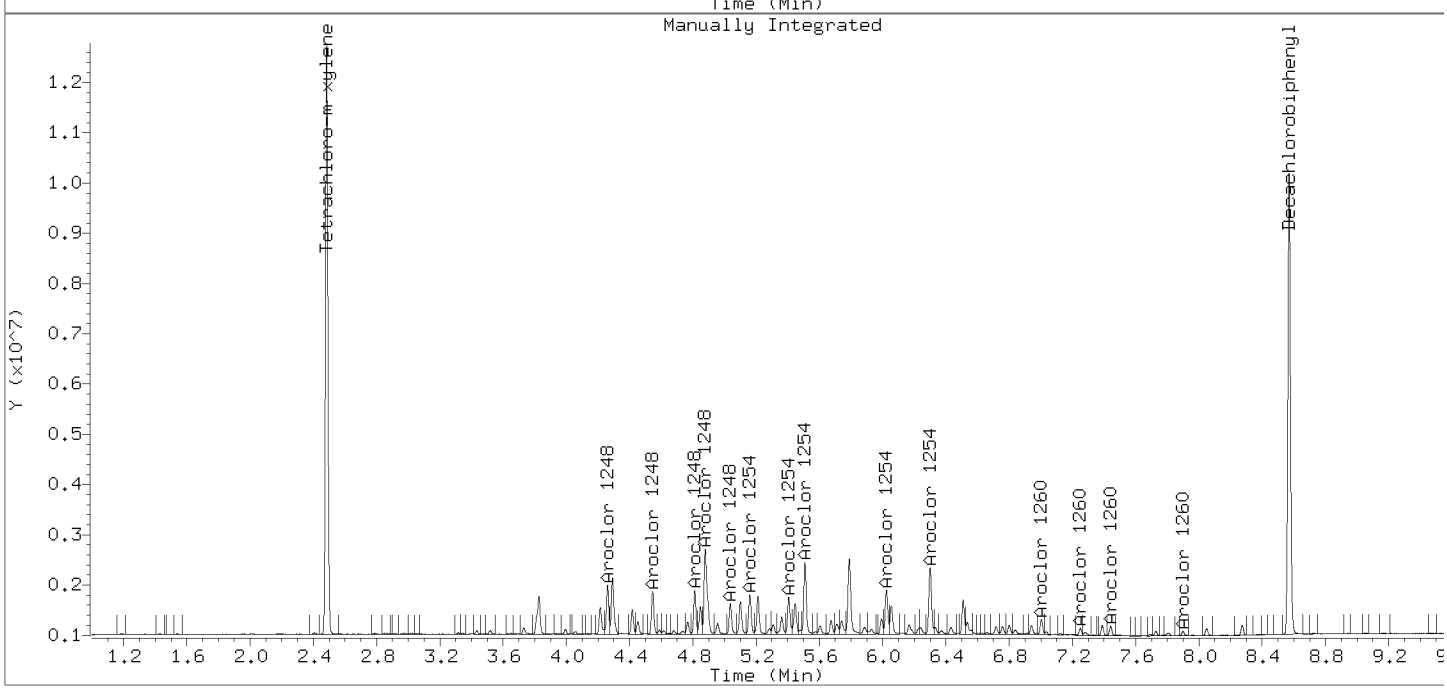
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018027.D
Date : 20-MAR-2018 19:23
Client ID: SW1-170613-01-BB-04
Sample Info: 40151614007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	33120	0	
Aroclor 1016	33120	0	
Aroclor 1016	33120	0	
Aroclor 1016	33120	0	
Aroclor 1016	33120	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	39789	0	
Aroclor 1232	39789	0	
Aroclor 1232	39789	0	
Aroclor 1232	39789	0	

Aroclor 1232	39789	0	
Aroclor 1242	33120	0	
Aroclor 1242	33120	0	
Aroclor 1242	33120	0	
Aroclor 1242	33120	0	
Aroclor 1242	33120	0	
Aroclor 1248	998954	1017195	BA
Aroclor 1248	998954	1017195	BA
Aroclor 1248	998954	1017195	BA
Aroclor 1248	998954	1017195	BA
Aroclor 1248	998954	1017195	BA
Aroclor 1254	905085	932313	BA
Aroclor 1254	905085	932313	BA
Aroclor 1254	905085	932313	BA
Aroclor 1254	905085	932313	BA
Aroclor 1254	905085	932313	BA
Aroclor 1260	1561322	0	BA
Aroclor 1260	1561322	0	BA
Aroclor 1260	1561322	0	BA
Aroclor 1260	1561322	0	BA
Aroclor 1260	1561322	0	BA
Tetrachloro-m-xylene	12242556	12242556	
Decachlorobiphenyl	10567537	10567537	

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SAMPLE NO.

SW1-170613-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151614008
Date Analyzed: 03/20/2018 20:11
Lab File ID: 032018.B\032018030.D
Initial wt/vol: 9.9668 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	383	
11097-69-1	PCB-1254 (Aroclor 1254)	231	
11096-82-5	PCB-1260 (Aroclor 1260)	65.7	
1336-36-3	PCB, Total	680	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018030.D
Lab Smp Id: 40151614008 Client Smp ID: SW1-170613-01-BB-03
Inj Date : 20-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614008,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.967	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	17969	14120	0.786	0.01		
1.424	11407	9964	0.874	0.01		
1.536	10051	9766	0.972	0.01		
2.011	12526	10713	0.855	0.01		
2.314	10487	10807	1.031	0.01		
2.409	48334	40371	0.835	0.05		
2.484	11873485	11498955	0.968	13.20	$ 2 Tetrachloro-m-xylene	
2.788	29435	26974	0.916	0.03		
2.851	73288	56594	0.772	0.07		
2.976	34177	25377	0.743	0.03		
3.017	29133	25875	0.888	0.03		
3.054	26515	23970	0.904	0.02		
3.317	82698	79003	0.955	0.08		
3.345	34034	33836	0.994	0.03		
3.433	156138	146916	0.941	0.16		
3.519	296537	279168	0.941	0.31		
3.644	60220	56913	0.945	0.06		
3.731	469338	407337	0.868	0.50		
3.825	1845016	1110788	0.602	1.97		
3.934	111733	70877	0.634	0.11		
3.994	229138	216683	0.946	0.24		
4.058	94399	81552	0.864	0.10		
4.136	22361	18481	0.827	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	1594864	1365075	0.856	1.70	
4.261	2271887	2164800	0.953	2.42	6 Aroclor 1248
4.291	4346270	3655767	0.841	4.64	
4.417	1009833	953447	0.944	1.07	
4.453	587730	517136	0.880	0.62	
4.545	2149442	1968878	0.916	2.29	6 Aroclor 1248
4.589	362276	339330	0.937	0.38	
4.615	197441	158723	0.804	0.21	
4.681	194652	169540	0.871	0.20	
4.737	262766	214140	0.815	0.28	
4.768	630469	598480	0.949	0.67	
4.812	1846183	1715397	0.929	1.97	6 Aroclor 1248
4.848	859175	829487	0.965	0.91	
4.879	4641648	2833252	0.610	4.96	6 Aroclor 1248
4.956	744822	630823	0.847	0.79	
5.037	1803702	1671202	0.927	1.92	6 Aroclor 1248
5.101	2054750	1768743	0.861	2.19	
5.159	1819100	1516249	0.834	1.94	7 Aroclor 1254
5.212	1665067	1392057	0.836	1.78	
5.283	327403	308492	0.942	0.35	
5.307	573481	496401	0.866	0.61	
5.363	817581	714762	0.874	0.87	
5.406	1869157	1646433	0.881	1.99	7 Aroclor 1254
5.447	1427222	1200895	0.841	1.52	
5.478	285836	263283	0.921	0.30	
5.509	3440417	2955621	0.859	3.67	7 Aroclor 1254
5.577	173601	163137	0.940	0.18	
5.603	473477	406146	0.858	0.50	
5.675	1217082	1142259	0.939	1.30	
5.710	709282	583422	0.823	0.75	
5.741	882274	704402	0.798	0.94	
5.790	4220672	3219578	0.763	4.51	
5.884	523658	396214	0.757	0.55	
5.930	501986	372358	0.742	0.53	
5.993	987167	893261	0.905	1.05	
6.025	2144497	1800448	0.840	2.29	7 Aroclor 1254
6.055	1331825	1121591	0.842	1.42	
6.168	780956	462276	0.592	0.83	
6.226	222840	268726	1.206	0.23	
6.241	428071	329490	0.770	0.45	
6.301	4114844	3392257	0.824	4.39	7 Aroclor 1254
6.333	374397	335347	0.896	0.40	
6.372	210287	166611	0.792	0.22	
6.432	613285	511747	0.834	0.65	
6.509	1690310	1492678	0.883	1.80	
6.535	681928	621992	0.912	0.72	
6.560	250530	228107	0.910	0.26	
6.605	143336	101469	0.708	0.15	
6.660	88370	75831	0.858	0.09	
6.717	452052	386029	0.854	0.48	
6.759	517607	474409	0.917	0.55	
6.800	522028	466499	0.894	0.55	
6.839	318838	233541	0.732	0.34	
6.913	69655	62961	0.904	0.07	
6.942	277714	245769	0.885	0.29	
7.004	1032089	933875	0.905	1.10	8 Aroclor 1260
7.035	126210	119273	0.945	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.077	15983	15201	0.951	0.01	
7.121	57168	52865	0.925	0.06	
7.251	492624	441288	0.896	0.52	8 Aroclor 1260
7.281	189422	152826	0.807	0.20	
7.332	14823	13481	0.909	0.01	
7.389	580757	509673	0.878	0.62	
7.442	553492	492833	0.890	0.59	8 Aroclor 1260
7.551	23479	25138	1.071	0.02	
7.690	115657	111779	0.966	0.12	
7.728	194934	163325	0.838	0.20	
7.804	115103	63365	0.551	0.12	
7.861	11342	10283	0.907	0.01	
7.900	337293	294417	0.873	0.36	8 Aroclor 1260
7.961	46881	29923	0.638	0.05	
8.048	161580	142035	0.879	0.17	
8.275	401525	353109	0.879	0.42	
8.373	17784	15604	0.877	0.01	
8.449	10956	9272	0.846	0.01	
8.571	10652627	9257950	0.869	11.38	$ 12 Decachlorobiphenyl
8.726	27151	17180	0.633	0.02	
9.054	23251	16262	0.699	0.02	
9.169	51014	42013	0.824	0.05	
	93537304	80244978		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018030.D
Lab Smp Id: 40151614008 Client Smp ID: SW1-170613-01-BB-03
Inj Date : 20-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614008,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.967	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.483	2.484	-0.001	11873485	0.09630	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2271887	0.96966	490	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2149441	0.51790	260	0.00- 20.00	94.61	BA
4.811	4.812	-0.001	1846182	0.90941	460	0.00- 20.00	81.26	BA
4.878	4.879	-0.001	4641647	0.92143	460	0.00- 20.00	204.31	BA
5.036	5.038	-0.002	1803701	0.50263	250	0.00- 20.00	79.39	BA
		Average of Peak Concentrations =			380			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1819100	0.34747	170	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1869156	0.43458	220	0.00- 20.00	102.75	BA
5.509	5.510	-0.001	3440417	0.44301	220	0.00- 20.00	189.13	BA
6.024	6.027	-0.003	2144496	0.44038	220	0.00- 20.00	117.89	BA
6.300	6.299	0.001	4114843	0.63236	320	0.00- 20.00	226.20	BA
		Average of Peak Concentrations =			230			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1032089	0.10306	52	0.00- 20.00	25.08	BA
7.251	7.251	0.000	492624	0.10306	52	0.00- 20.00	11.97	BA
7.441	7.443	-0.002	553492	0.18987	95	0.00- 20.00	13.45	BA
7.899	7.901	-0.002	337292	0.12782	64	0.00- 20.00	8.20	BA
		Average of Peak Concentrations =			66			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10652627	0.09723	49			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018030.D

Date : 20-MAR-2018 20:11

Client ID: SW1-170613-01-BB-03

Instrument: 40GCSJ.i

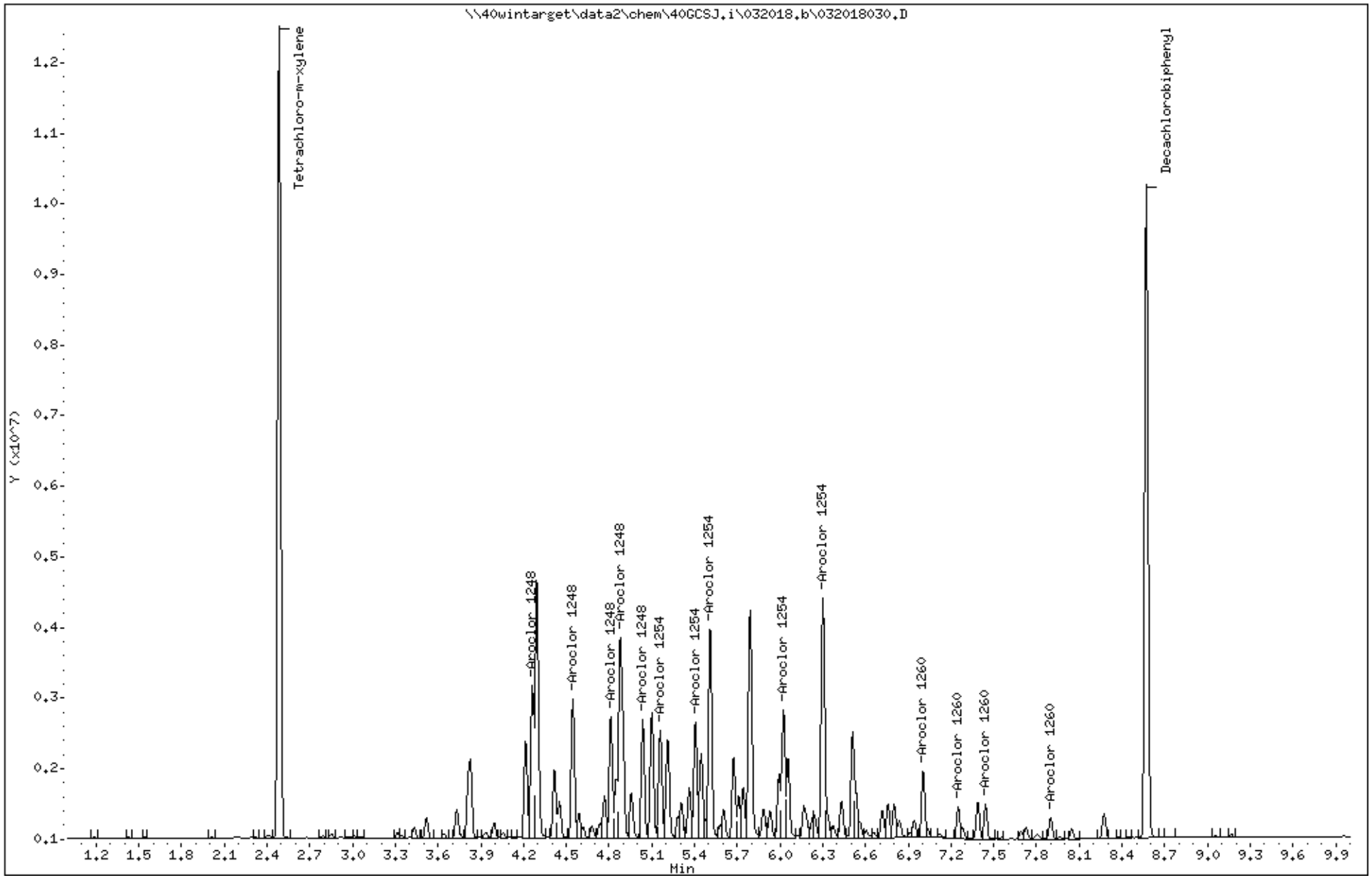
Sample Info: 40151614008,

Volume Injected (uL): 1.0

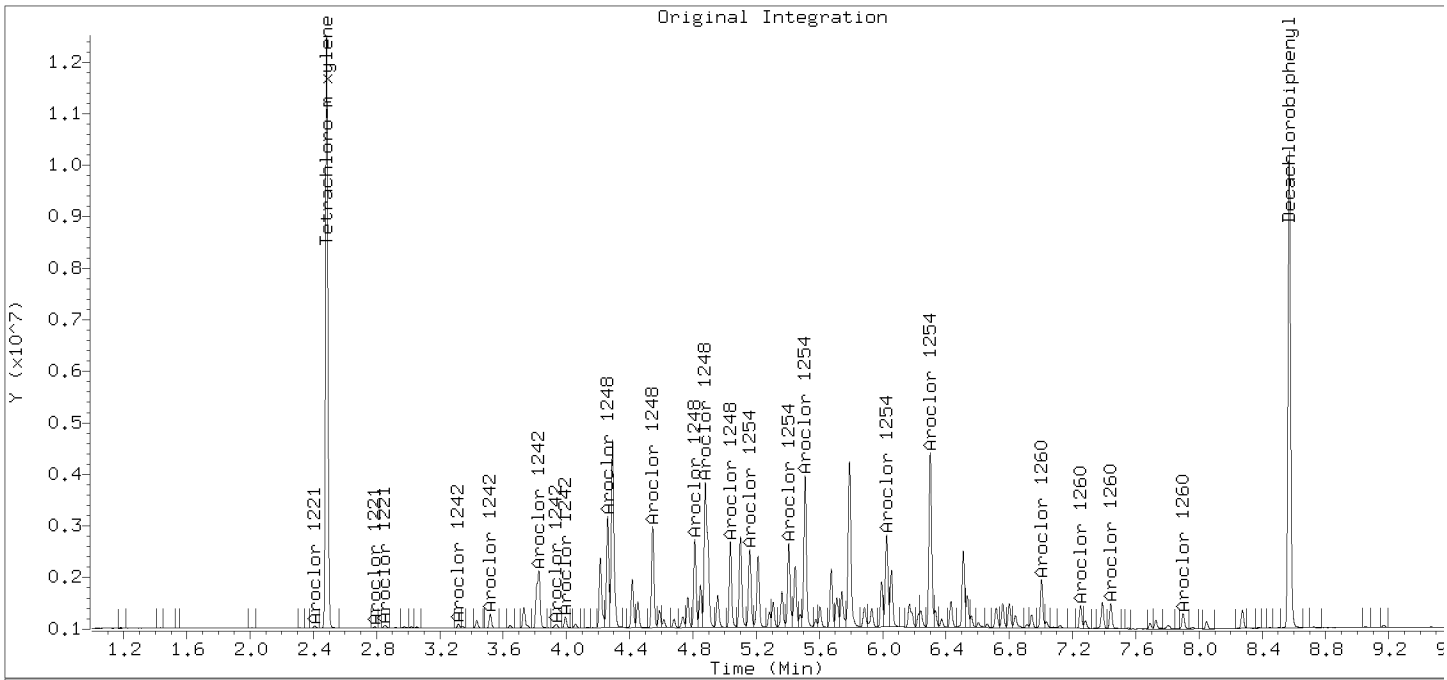
Operator: BLM

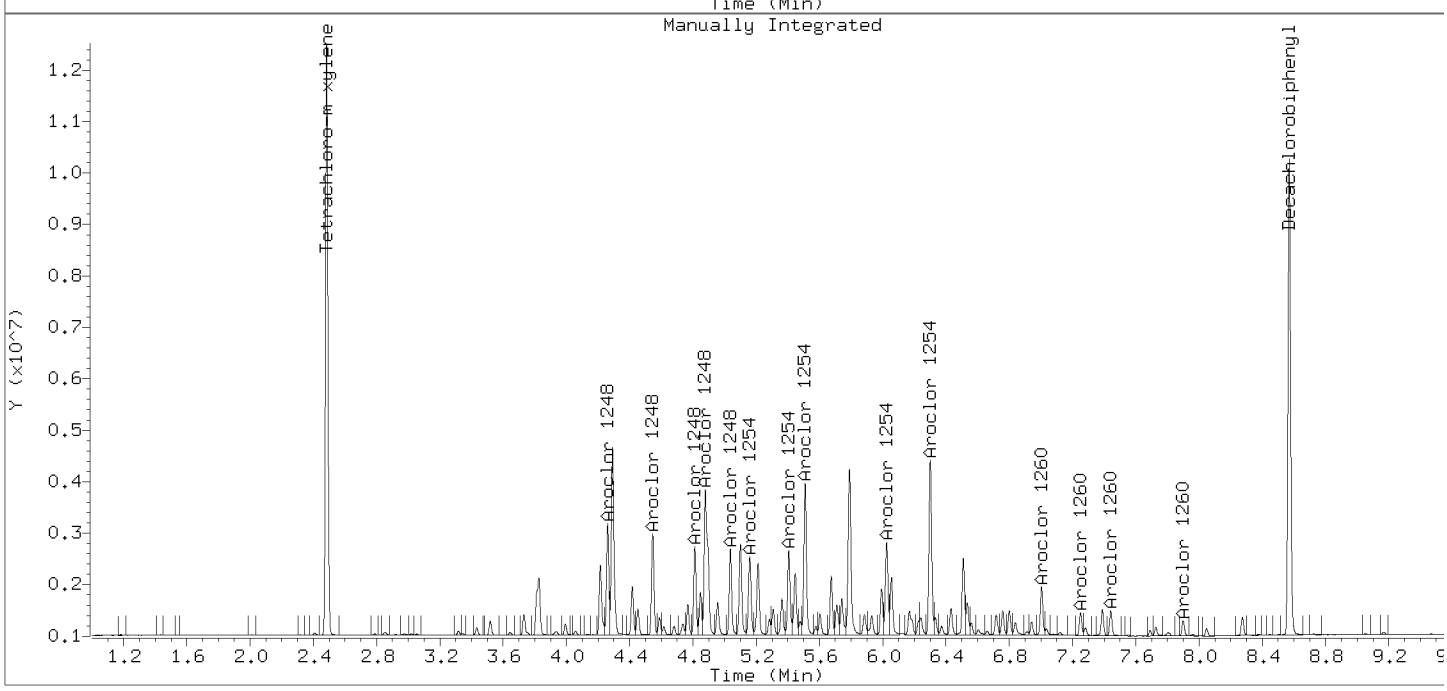
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	82697	0	
Aroclor 1016	82697	0	
Aroclor 1016	82697	0	
Aroclor 1016	82697	0	
Aroclor 1016	82697	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	73287	0	
Aroclor 1232	73287	0	
Aroclor 1232	73287	0	
Aroclor 1232	73287	0	

Aroclor 1232	73287	0	
Aroclor 1242	82697	0	
Aroclor 1242	82697	0	
Aroclor 1242	82697	0	
Aroclor 1242	82697	0	
Aroclor 1242	82697	0	
Aroclor 1248	2244833	2271887	BA
Aroclor 1248	2244833	2271887	BA
Aroclor 1248	2244833	2271887	BA
Aroclor 1248	2244833	2271887	BA
Aroclor 1248	2244833	2271887	BA
Aroclor 1254	1781609	1819100	BA
Aroclor 1254	1781609	1819100	BA
Aroclor 1254	1781609	1819100	BA
Aroclor 1254	1781609	1819100	BA
Aroclor 1254	1781609	1819100	BA
Aroclor 1260	4084051	0	BA
Aroclor 1260	4084051	0	BA
Aroclor 1260	4084051	0	BA
Aroclor 1260	4084051	0	BA
Aroclor 1260	4084051	0	BA
Tetrachloro-m-xylene	11873485	11873485	
Decachlorobiphenyl	10652627	10652627	

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SAMPLE NO.

SW1-170613-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151614009
Date Analyzed: 03/27/2018 17:52
Lab File ID: 032718.B\032718019.D
Initial wt/vol: 10.0068 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	328	
11097-69-1	PCB-1254 (Aroclor 1254)	183	
11096-82-5	PCB-1260 (Aroclor 1260)	96.2	J
1336-36-3	PCB, Total	607	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718019.D
Lab Smp Id: 40151614009 Client Smp ID: SW1-170613-01-BB-02
Inj Date : 27-MAR-2018 17:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614009 x2,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.007	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	61414	47896	0.780	0.15		
1.690	18350	14663	0.799	0.04		
2.010	38248	29465	0.770	0.09		
2.411	36316	31330	0.863	0.08		
2.485	5371167	5129754	0.955	13.68	$ 2 Tetrachloro-m-xylene	
2.789	16404	14426	0.879	0.04		
2.851	30704	25125	0.818	0.07		
2.975	11085	10084	0.910	0.02		
3.023	36250	27887	0.769	0.08		
3.054	16373	16398	1.002	0.04		
3.318	40439	39019	0.965	0.09		
3.344	35676	31910	0.894	0.08		
3.434	87928	84342	0.959	0.21		
3.519	127402	118148	0.927	0.31		
3.646	29558	24069	0.814	0.07		
3.732	159832	132440	0.829	0.39		
3.827	837888	576346	0.688	2.06		
3.930	43728	27133	0.620	0.10		
3.994	146913	131838	0.897	0.36		
4.057	61695	52672	0.854	0.15		
4.135	18732	15810	0.844	0.04		
4.215	626043	566820	0.905	1.54		
4.260	937680	895525	0.955	2.30	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.293	1307663	1096902	0.839	3.21	
4.417	561201	529992	0.944	1.38	
4.453	295900	263817	0.892	0.72	
4.546	891941	836972	0.938	2.19	6 Aroclor 1248
4.588	78668	72109	0.917	0.19	
4.617	101789	82413	0.810	0.25	
4.681	70807	61455	0.868	0.17	
4.738	75523	51824	0.686	0.18	
4.767	198793	182513	0.918	0.48	
4.813	783066	752146	0.961	1.92	6 Aroclor 1248
4.847	382442	363155	0.950	0.94	
4.878	2021083	1345907	0.666	4.97	6 Aroclor 1248
4.956	239379	200341	0.837	0.58	
5.037	857781	790711	0.922	2.11	6 Aroclor 1248
5.100	709155	618873	0.873	1.74	
5.161	751607	659066	0.877	1.84	7 Aroclor 1254
5.212	695452	587803	0.845	1.71	
5.284	95564	92317	0.966	0.23	
5.308	201293	163326	0.811	0.49	
5.362	389667	335167	0.860	0.95	
5.406	771087	671104	0.870	1.89	7 Aroclor 1254
5.447	604256	515009	0.852	1.48	
5.479	93520	89698	0.959	0.23	
5.510	1518915	1304866	0.859	3.73	7 Aroclor 1254
5.576	47399	41860	0.883	0.11	
5.605	229015	185637	0.811	0.56	
5.674	356307	329254	0.924	0.87	
5.710	241899	186247	0.770	0.59	
5.741	284425	213800	0.752	0.69	
5.790	1695779	1290921	0.761	4.17	
5.886	165665	127243	0.768	0.40	
5.931	144300	86092	0.597	0.35	
5.993	295352	268654	0.910	0.72	
6.024	862707	746895	0.866	2.12	7 Aroclor 1254
6.055	559679	455983	0.815	1.37	
6.167	273971	181010	0.661	0.67	
6.230	87306	95379	1.092	0.21	
6.242	145128	114068	0.786	0.35	
6.300	1422880	1150997	0.809	3.50	7 Aroclor 1254
6.333	134303	123702	0.921	0.33	
6.375	94523	66647	0.705	0.23	
6.432	168057	119480	0.711	0.41	
6.510	813648	725370	0.892	2.00	
6.535	241012	236219	0.980	0.59	
6.559	88489	78908	0.892	0.21	
6.605	63527	38844	0.611	0.15	
6.660	42754	33278	0.778	0.10	
6.718	167497	138943	0.830	0.41	
6.759	155184	131488	0.847	0.38	
6.800	187414	162081	0.865	0.46	
6.838	190686	150338	0.788	0.46	
6.913	41973	35748	0.852	0.10	
6.942	129475	110948	0.857	0.31	
7.004	377541	327174	0.867	0.92	8 Aroclor 1260
7.033	48194	43271	0.898	0.11	
7.125	50287	31947	0.635	0.12	
7.251	170639	150385	0.881	0.41	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.279	76546	55562	0.726	0.18	
7.337	16519	13414	0.812	0.04	
7.389	699345	598225	0.855	1.72	
7.443	648709	579151	0.893	1.59	8 Aroclor 1260
7.690	41156	39441	0.958	0.10	
7.726	272993	242653	0.889	0.67	
7.773	22406	18490	0.825	0.05	
7.800	98842	66731	0.675	0.24	
7.899	235677	204753	0.869	0.57	8 Aroclor 1260
8.048	84718	77116	0.910	0.20	
8.273	709530	636068	0.896	1.74	
8.377	25543	18733	0.733	0.06	
8.570	5139451	4501327	0.876	12.64	$ 12 Decachlorobiphenyl
8.725	13450	13668	1.016	0.03	
8.933	14081	11138	0.791	0.03	
9.052	25467	17963	0.705	0.06	
9.169	23155	19315	0.834	0.05	
9.461	10078	8500	0.843	0.02	
9.959	24721	15326	0.620	0.06	
	40645774	35026971		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718019.D
Lab Smp Id: 40151614009 Client Smp ID: SW1-170613-01-BB-02
Inj Date : 27-MAR-2018 17:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614009 x2,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.007	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5371166	0.04356	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	937679	0.40021	400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	891940	0.21491	210	0.00- 20.00	95.12	BA
4.812	4.812	0.000	783065	0.38573	380	0.00- 20.00	83.51	BA
4.878	4.879	-0.001	2021082	0.40121	400	0.00- 20.00	215.54	BA
5.036	5.038	-0.002	857781	0.23903	240	0.00- 20.00	91.48	BA
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	751606	0.14357	140	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	771086	0.17928	180	0.00- 20.00	102.59	BA
5.509	5.510	-0.001	1518914	0.19558	200	0.00- 20.00	202.09	BA
6.024	6.027	-0.003	862707	0.17716	180	0.00- 20.00	114.78	BA
6.300	6.299	0.001	1422880	0.21867	220	0.00- 20.00	189.31	BA
Average of Peak Concentrations =					180			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	377540	0.03770	38	0.00- 20.00	26.53	BA
7.251	7.251	0.000	170639	0.03570	36	0.00- 20.00	11.99	BA
7.442	7.443	-0.001	648709	0.22253	220	0.00- 20.00	45.59	BA
7.898	7.901	-0.003	235676	0.08931	89	0.00- 20.00	16.56	BA
Average of Peak Concentrations =					96			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5139450	0.04691	47			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718019.D

Date : 27-MAR-2018 17:52

Client ID: SW1-170613-01-BB-02

Instrument: 40GCSJ.i

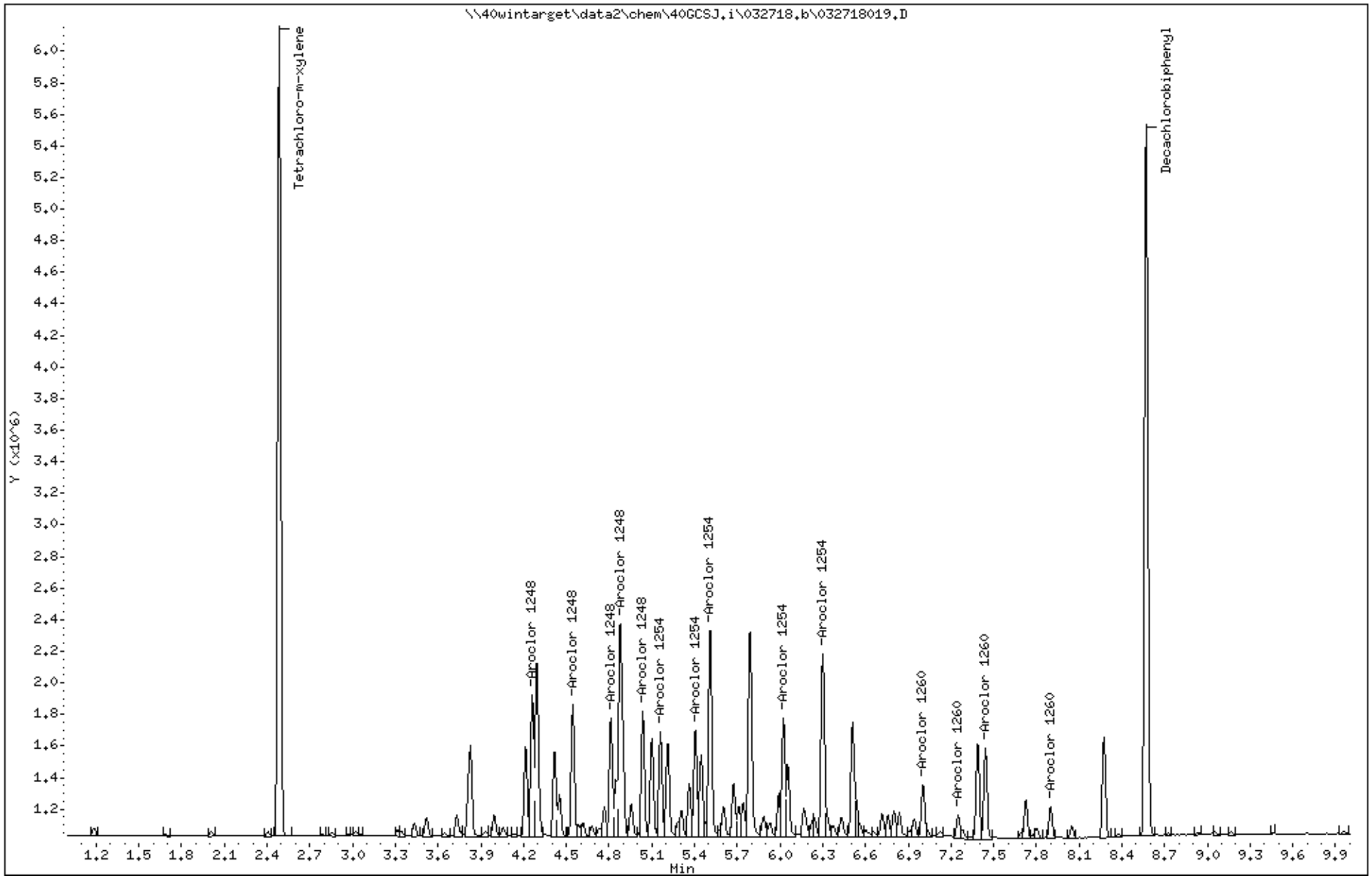
Sample Info: 40151614009 x2,

Volume Injected (uL): 1.0

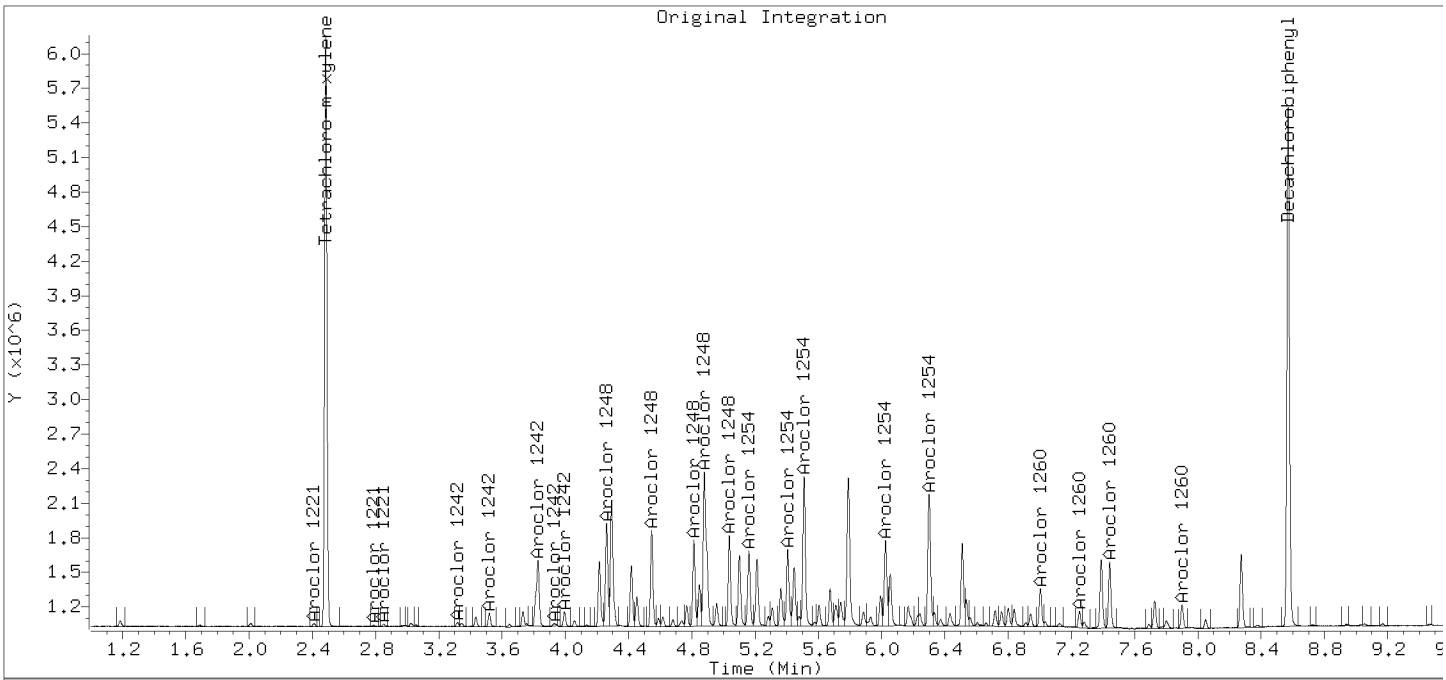
Operator: BLM

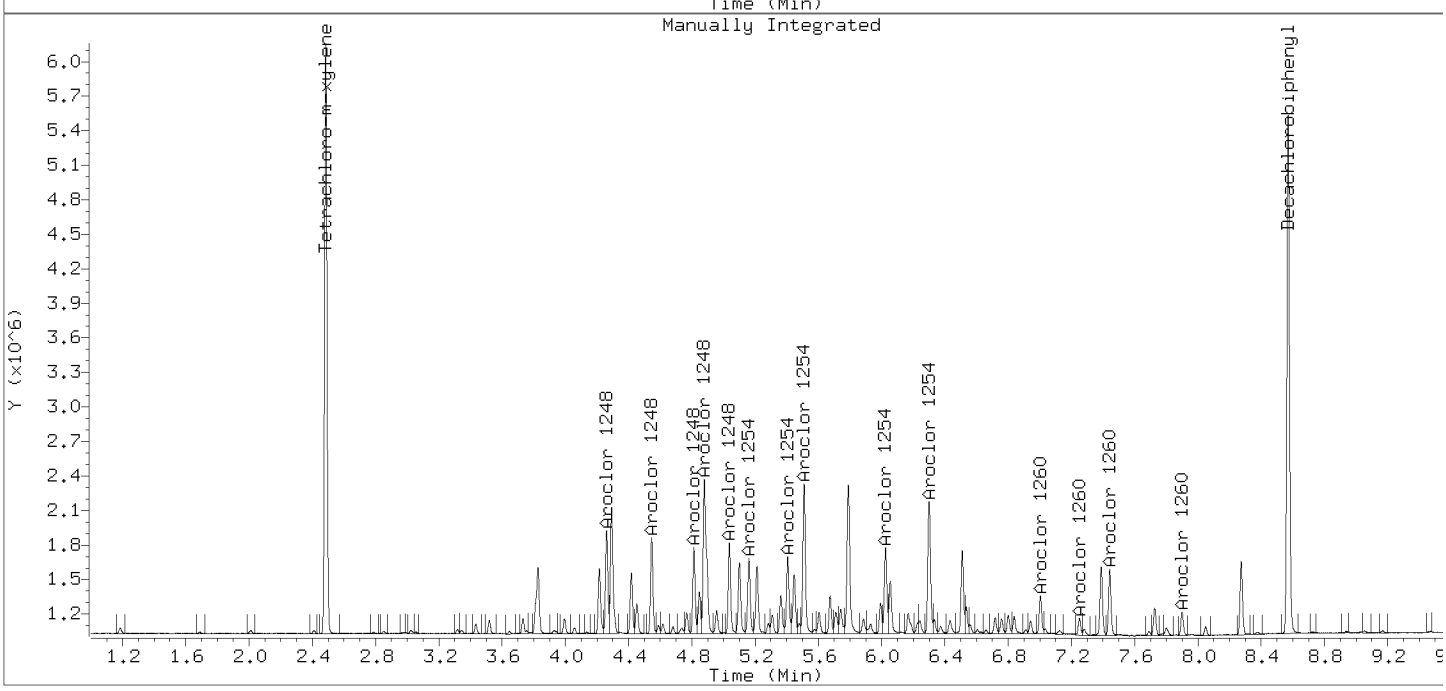
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 17:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	40439	0	
Aroclor 1016	40439	0	
Aroclor 1016	40439	0	
Aroclor 1016	40439	0	
Aroclor 1016	40439	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30704	0	
Aroclor 1232	30704	0	
Aroclor 1232	30704	0	
Aroclor 1232	30704	0	

Aroclor 1232	30704	0	
Aroclor 1242	40439	0	
Aroclor 1242	40439	0	
Aroclor 1242	40439	0	
Aroclor 1242	40439	0	
Aroclor 1242	40439	0	
Aroclor 1248	925330	937679	BA
Aroclor 1248	925330	937679	BA
Aroclor 1248	925330	937679	BA
Aroclor 1248	925330	937679	BA
Aroclor 1248	925330	937679	BA
Aroclor 1254	731828	751606	BA
Aroclor 1254	731828	751606	BA
Aroclor 1254	731828	751606	BA
Aroclor 1254	731828	751606	BA
Aroclor 1254	731828	751606	BA
Aroclor 1260	1399860	0	BA
Aroclor 1260	1399860	0	BA
Aroclor 1260	1399860	0	BA
Aroclor 1260	1399860	0	BA
Aroclor 1260	1399860	0	BA
Tetrachloro-m-xylene	5371166	5371166	
Decachlorobiphenyl	5139450	5139450	

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SAMPLE NO.

SW1-170613-01-BB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151614
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151614010
Date Analyzed: 03/28/2018 14:56
Lab File ID: 032818.B\032818007.D
Initial wt/vol: 9.9903 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	387	
11097-69-1	PCB-1254 (Aroclor 1254)	256	
11096-82-5	PCB-1260 (Aroclor 1260)	81.9	J
1336-36-3	PCB, Total	726	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818007.D
Lab Smp Id: 40151614010 Client Smp ID: SW1-170613-01-BB-01
Inj Date : 28-MAR-2018 14:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614010 x2,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	12755	8515	0.668	0.02		
1.071	10158	7958	0.783	0.02		
1.101	10381	7667	0.739	0.02		
2.411	29226	26132	0.894	0.05		
2.486	5534704	5159621	0.932	11.67	$ 2 Tetrachloro-m-xylene	
2.787	17541	12852	0.733	0.03		
2.854	20792	16294	0.784	0.04		
2.975	20975	16025	0.764	0.04		
3.020	19772	17754	0.898	0.03		
3.056	16060	13773	0.858	0.03		
3.318	33585	28309	0.843	0.06		
3.434	60657	54676	0.901	0.12		
3.521	81458	76221	0.936	0.16		
3.644	34222	26735	0.781	0.06		
3.734	232744	192232	0.826	0.46		
3.828	949485	612239	0.645	1.91		
3.938	45638	26174	0.574	0.09		
3.995	118213	107296	0.908	0.23		
4.059	46501	39417	0.848	0.09		
4.133	15875	9281	0.585	0.03		
4.216	681395	593626	0.871	1.37		
4.262	991171	965135	0.974	2.00	6 Aroclor 1248	BA
4.293	2238119	1859293	0.831	4.51		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.418	509505	470098	0.923	1.02	
4.453	257222	232762	0.905	0.51	
4.547	1105097	1024674	0.927	2.23	6 Aroclor 1248
4.590	171203	158236	0.924	0.34	
4.619	87834	72461	0.825	0.17	
4.681	123888	105929	0.855	0.25	
4.738	128311	104491	0.814	0.25	
4.768	375866	351739	0.936	0.75	
4.814	1061639	984720	0.928	2.14	6 Aroclor 1248
4.849	392103	366680	0.935	0.79	
4.879	2483661	1496167	0.602	5.01	6 Aroclor 1248
4.957	356244	296840	0.833	0.71	
5.038	826143	746917	0.904	1.66	6 Aroclor 1248
5.101	1152584	1016478	0.882	2.32	
5.160	927919	783935	0.845	1.87	7 Aroclor 1254
5.213	896309	762986	0.851	1.80	
5.284	182260	177813	0.976	0.36	
5.308	358635	295502	0.824	0.72	
5.363	400782	349174	0.871	0.80	
5.407	1014954	901838	0.889	2.04	7 Aroclor 1254
5.449	974192	837802	0.860	1.96	
5.479	151848	152313	1.003	0.30	
5.510	1890210	1590343	0.841	3.81	7 Aroclor 1254
5.576	90062	79547	0.883	0.18	
5.604	261237	222254	0.851	0.52	
5.675	697496	663003	0.951	1.40	
5.711	381370	311777	0.818	0.76	
5.744	489296	385612	0.788	0.98	
5.791	2458760	1883200	0.766	4.96	
5.886	330191	227142	0.688	0.66	
5.932	244915	196283	0.801	0.49	
5.994	548992	506966	0.923	1.10	
6.026	1287851	1108163	0.860	2.59	7 Aroclor 1254
6.056	742165	616882	0.831	1.49	
6.170	450662	267161	0.593	0.90	
6.228	143755	162171	1.128	0.29	
6.242	245598	200260	0.815	0.49	
6.302	2334863	1882083	0.806	4.71	7 Aroclor 1254
6.333	229332	211696	0.923	0.46	
6.373	126958	102512	0.807	0.25	
6.433	313524	260718	0.832	0.63	
6.510	929945	840881	0.904	1.87	
6.537	421021	366821	0.871	0.84	
6.559	134390	129761	0.966	0.27	
6.607	86525	61717	0.713	0.17	
6.660	56139	45917	0.818	0.11	
6.719	259967	224671	0.864	0.52	
6.760	289097	258845	0.895	0.58	
6.804	317423	277717	0.875	0.64	
6.840	209849	155257	0.740	0.42	
6.915	39734	37569	0.946	0.08	
6.942	163824	150356	0.918	0.33	
7.005	574212	505134	0.880	1.15	8 Aroclor 1260
7.034	51986	63584	1.223	0.10	
7.076	9495	11734	1.236	0.01	
7.123	50382	37082	0.736	0.10	
7.251	282842	256996	0.909	0.57	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	120981	89206	0.737	0.24	
7.344	16501	14178	0.859	0.03	
7.390	437402	370284	0.847	0.88	
7.443	406257	338983	0.834	0.81	8 Aroclor 1260
7.553	15667	16747	1.069	0.03	
7.692	72625	63921	0.880	0.14	
7.729	153442	136324	0.888	0.30	
7.807	79660	48665	0.611	0.16	
7.901	188879	167412	0.886	0.38	8 Aroclor 1260
7.962	28629	16100	0.562	0.05	
8.051	108983	84320	0.774	0.21	
8.275	318459	281354	0.883	0.64	
8.380	15416	10324	0.670	0.03	
8.571	5206892	4650438	0.893	10.50	$ 12 Decachlorobiphenyl
8.726	15903	13488	0.848	0.03	
9.057	15166	15335	1.011	0.03	
9.169	28383	21957	0.774	0.05	
9.468	10773	7616	0.707	0.02	
	49543715	42215247		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818007.D
Lab Smp Id: 40151614010 Client Smp ID: SW1-170613-01-BB-01
Inj Date : 28-MAR-2018 14:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151614010 x2,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	5534704	0.04489	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	991170	0.42304	420	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1105096	0.26627	270	0.00- 20.00	111.49	BA
4.813	4.812	0.001	1061638	0.52295	520	0.00- 20.00	107.11	BA
4.878	4.879	-0.001	2483661	0.49304	490	0.00- 20.00	250.58	BA
5.037	5.038	-0.001	826142	0.23022	230	0.00- 20.00	83.35	BA
Average of Peak Concentrations =					390			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	927918	0.17724	180	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1014953	0.23598	240	0.00- 20.00	109.38	BA
5.510	5.510	0.000	1890209	0.24339	240	0.00- 20.00	203.70	BA
6.025	6.027	-0.002	1287850	0.26446	260	0.00- 20.00	138.79	BA
6.301	6.299	0.002	2334862	0.35882	360	0.00- 20.00	251.62	BA
Average of Peak Concentrations =					260			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.005	7.006	-0.001	574212	0.05734	57	0.00- 20.00	26.78	CO
7.251	7.251	0.000	282842	0.05917	59	0.00- 20.00	12.11	CO
7.442	7.443	-0.001	406257	0.13936	140	0.00- 20.00	17.40	CO
7.900	7.901	-0.001	188878	0.07158	72	0.00- 20.00	8.09	CO
Average of Peak Concentrations =					82			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5206892	0.04753	48			

QC Flag Legend

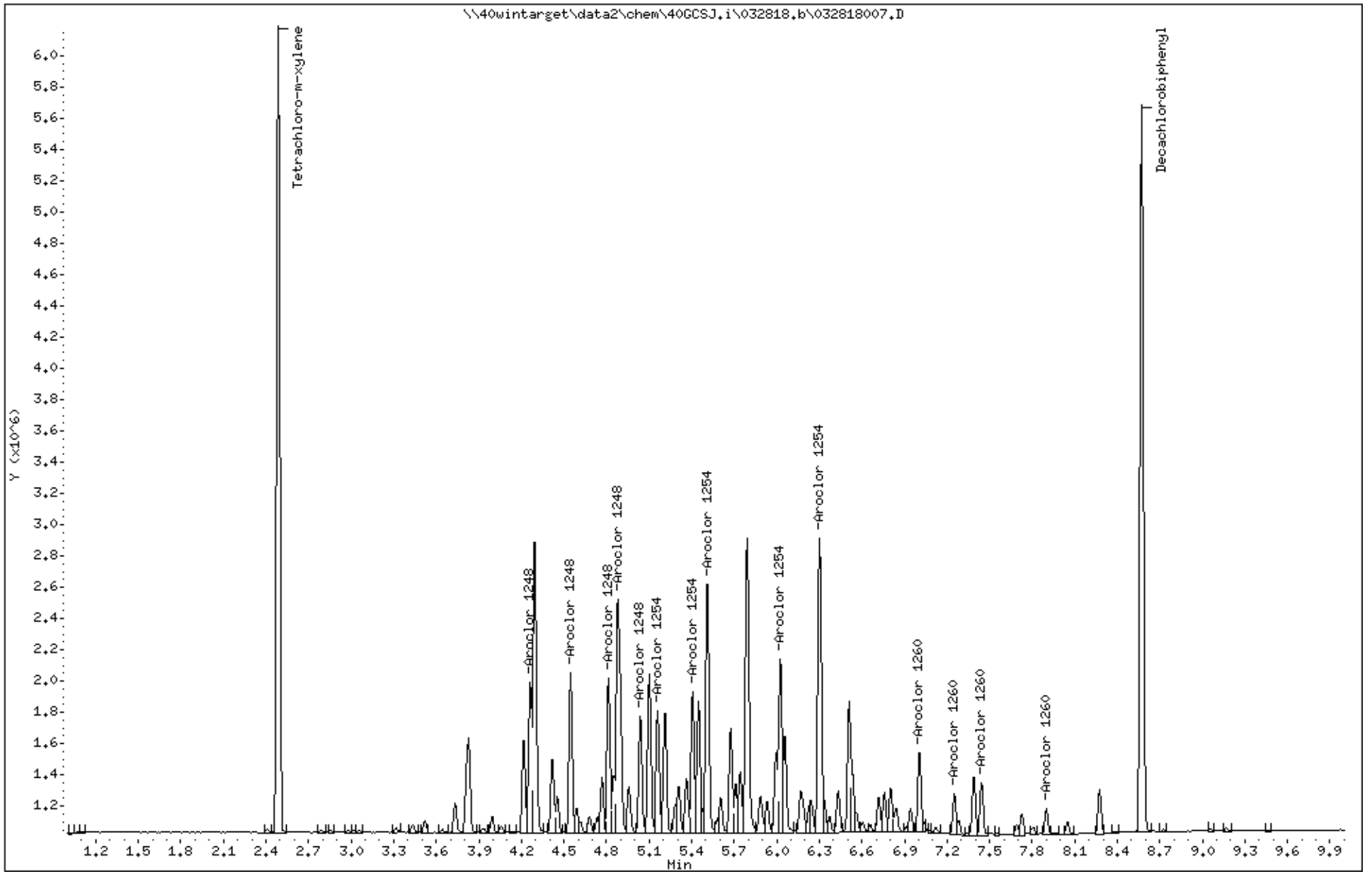
M - Compound response manually integrated.

Review Codes Legend

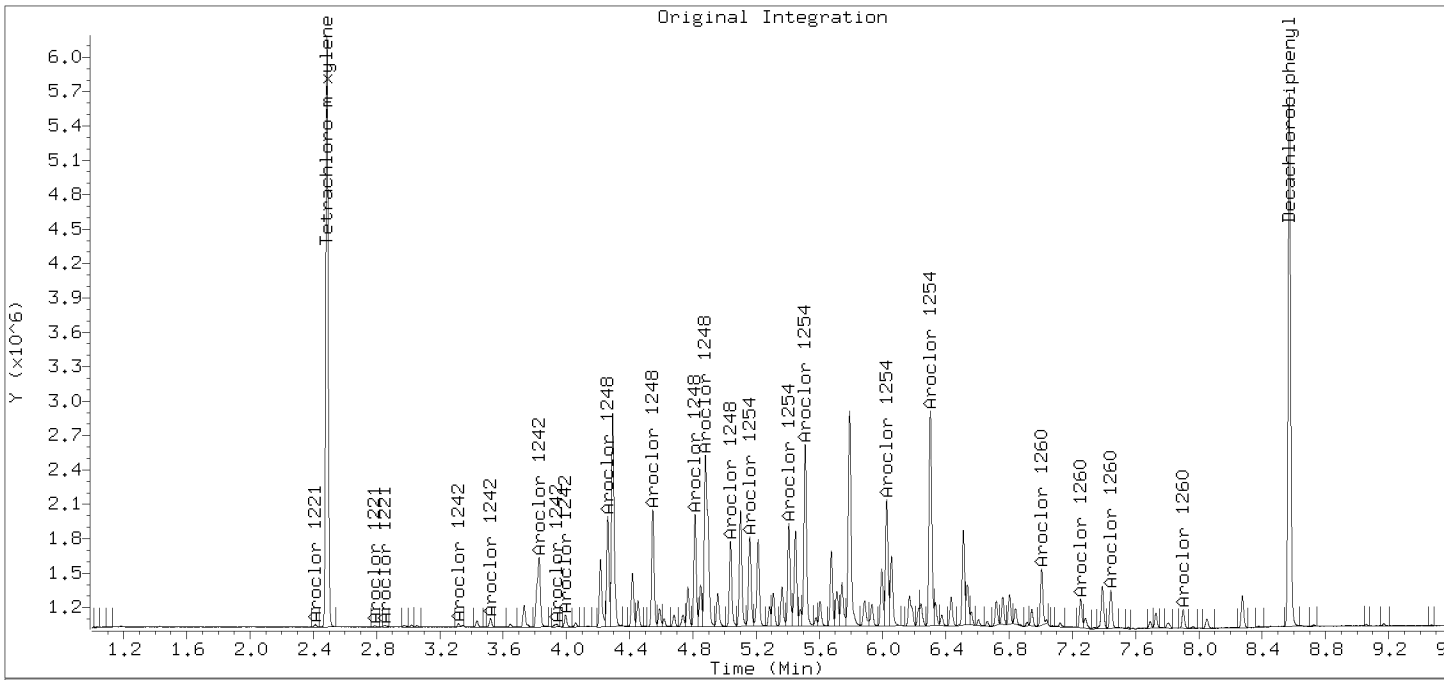
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

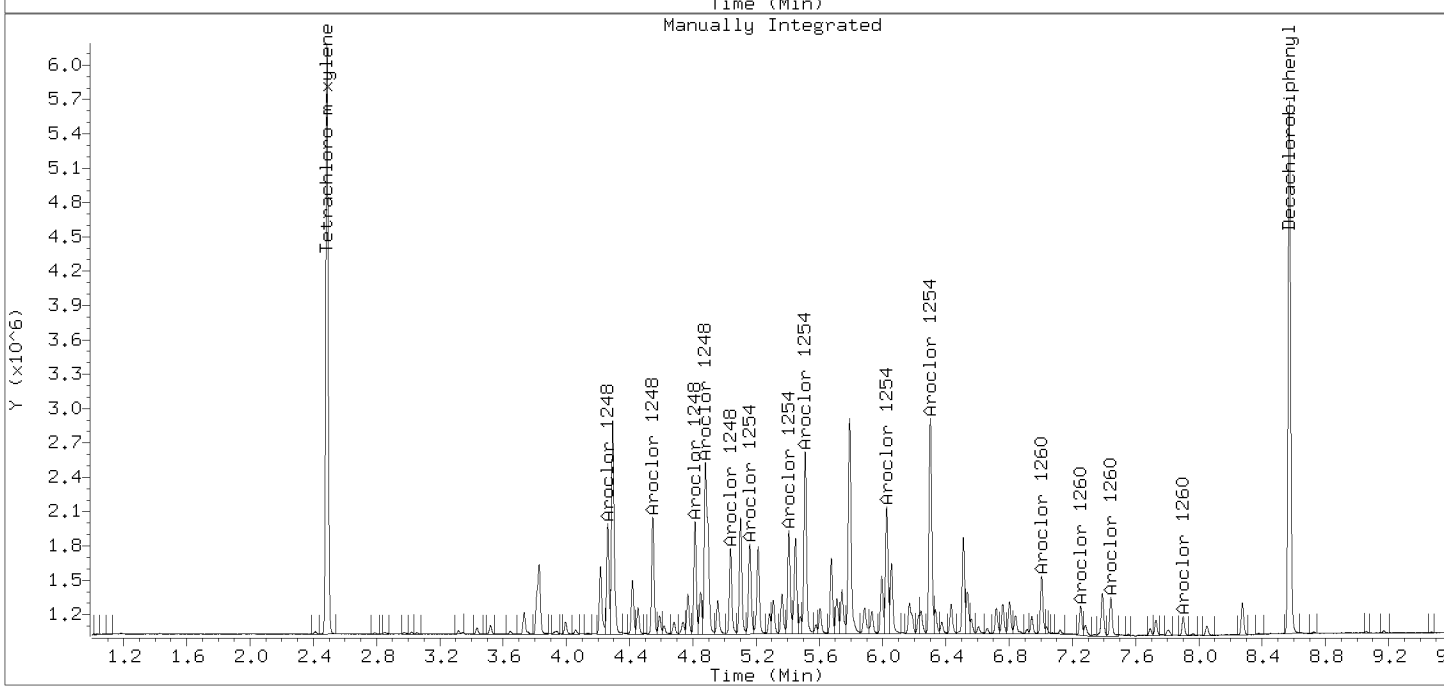
Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818007.D
Date : 28-MAR-2018 14:56
Client ID: SW1-170613-01-BB-01
Sample Info: 40151614010 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 28-MAR-2018 14:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151614010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	33585	0	
Aroclor 1016	33585	0	
Aroclor 1016	33585	0	
Aroclor 1016	33585	0	
Aroclor 1016	33585	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	20792	0	
Aroclor 1232	20792	0	
Aroclor 1232	20792	0	
Aroclor 1232	20792	0	

Aroclor 1232	20792	0	
Aroclor 1242	33585	0	
Aroclor 1242	33585	0	
Aroclor 1242	33585	0	
Aroclor 1242	33585	0	
Aroclor 1242	33585	0	
Aroclor 1248	978200	991170	BA
Aroclor 1248	978200	991170	BA
Aroclor 1248	978200	991170	BA
Aroclor 1248	978200	991170	BA
Aroclor 1248	978200	991170	BA
Aroclor 1254	909633	927918	BA
Aroclor 1254	909633	927918	BA
Aroclor 1254	909633	927918	BA
Aroclor 1254	909633	927918	BA
Aroclor 1254	909633	927918	BA
Aroclor 1260	2302571	0	CO
Aroclor 1260	2302571	0	CO
Aroclor 1260	2302571	0	CO
Aroclor 1260	2302571	0	CO
Aroclor 1260	2302571	0	CO
Tetrachloro-m-xylene	5534704	5534704	
Decachlorobiphenyl	5206892	5206892	

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PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1016	1	Averaged	3346700.00	3270300.00	3026998.00	2916970.00	2843185.00
Aroclor 1016	2	Averaged	3361310.00	3225075.00	3064774.00	2953430.00	2890423.00
Aroclor 1016	3	Averaged	9619090.00	9294970.00	8629258.00	8432580.00	8333033.00
Aroclor 1016	4	Averaged	4072990.00	3972810.00	3750126.00	3581221.25	3523970.00
Aroclor 1016	5	Averaged	2912980.00	2694260.00	2551278.00	2433447.50	2424781.00
Aroclor 1221	1	Averaged	1168840.00	1110755.00	980478.000	981937.500	964273.000
Aroclor 1221	2	Averaged	612180.000	587450.000	526622.000	511427.500	501535.000
Aroclor 1221	3	Averaged	1505110.00	1446635.00	1316246.00	1333917.50	1314775.00
Aroclor 1221	4	Averaged	1181440.00	1150255.00	1038526.00	1067413.75	1091213.00
Aroclor 1221	5	Averaged	3492190.00	3470535.00	3167038.00	3088411.25	3058814.00
Aroclor 1242	1	Averaged	2772560.00	2688000.00	2505132.00	2371062.50	2329239.00
Aroclor 1242	2	Averaged	2739500.00	2600755.00	2506348.00	2392166.25	2361398.00
Aroclor 1242	3	Averaged	7695890.00	7473100.00	6971326.00	6735328.75	6706645.00
Aroclor 1242	4	Averaged	3287540.00	3169245.00	3017986.00	2875101.25	2857801.00
Aroclor 1242	5	Averaged	2247420.00	2077595.00	2062930.00	1928282.50	1922507.00
Aroclor 1248	1	Averaged	2522640.00	2478140.00	2346396.00	2184111.25	2183582.00
Aroclor 1248	2	Averaged	4441400.00	4466680.00	4104774.00	3847133.75	3891542.00
Aroclor 1248	3	Averaged	2175950.00	2100970.00	2034380.00	1911980.00	1927121.00
Aroclor 1248	4	Averaged	5384910.00	5302865.00	5054976.00	4695606.25	4748871.00
Aroclor 1248	5	Averaged	3757360.00	3770200.00	3588002.00	3386248.75	3440920.00
Aroclor 1254	1	Averaged	5783370.00	5652575.00	5120584.00	4858101.25	4761607.00
Aroclor 1254	2	Averaged	4616750.00	4581855.00	4225042.00	4064631.25	4016994.00
Aroclor 1254	3	Averaged	8435240.00	8286960.00	7623568.00	7277021.25	7207530.00
Aroclor 1254	4	Averaged	5140880.00	5151350.00	4826428.00	4638268.75	4591491.00
Aroclor 1254	5	Averaged	7015020.00	6981970.00	6368818.00	6122333.75	6047377.00
Aroclor 1260	1	Averaged	9569990.00	9323545.00	8657528.00	8388552.50	8372147.00
Aroclor 1260	2	Averaged	10746610.0	10429350.0	9816406.00	9526972.50	9552528.00
Aroclor 1260	3	Averaged	5052370.00	4986225.00	4721308.00	4577403.75	4561709.00
Aroclor 1260	4	Averaged	3131020.00	3037915.00	2887698.00	2771190.00	2747730.00

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1260	5	Averaged	2853590.00	2718235.00	2625044.00	2511683.75	2485127.00
Decachlorobiphenyl (S)		Averaged	125223400.	114228350.	106255020.	101602250.	100490933.
Tetrachloro-m-xylene		Averaged	126550100.	124974300.	121144740.	121809550.	121996840.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-3

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1016	1	Averaged	7.12			3080830.60	
Aroclor 1016	2	Averaged	6.26			3099002.40	
Aroclor 1016	3	Averaged	6.38			8861786.20	
Aroclor 1016	4	Averaged	6.32			3780223.45	
Aroclor 1016	5	Averaged	7.86			2603349.30	
Aroclor 1221	1	Averaged	8.88			1041256.70	
Aroclor 1221	2	Averaged	8.95			547842.90	
Aroclor 1221	3	Averaged	6.31			1383336.70	
Aroclor 1221	4	Averaged	5.33			1105769.55	
Aroclor 1221	5	Averaged	6.45			3255397.65	
Aroclor 1242	1	Averaged	7.64			2533198.70	
Aroclor 1242	2	Averaged	6.15			2520033.45	
Aroclor 1242	3	Averaged	6.27			7116457.95	
Aroclor 1242	4	Averaged	6.12			3041534.65	
Aroclor 1242	5	Averaged	6.50			2047746.90	
Aroclor 1248	1	Averaged	6.78			2342973.85	
Aroclor 1248	2	Averaged	7.08			4150305.95	
Aroclor 1248	3	Averaged	5.55			2030080.20	
Aroclor 1248	4	Averaged	6.21			5037445.65	
Aroclor 1248	5	Averaged	4.91			3588546.15	
Aroclor 1254	1	Averaged	8.82			5235247.45	
Aroclor 1254	2	Averaged	6.58			4301054.45	
Aroclor 1254	3	Averaged	7.31			7766063.85	
Aroclor 1254	4	Averaged	5.48			4869683.55	
Aroclor 1254	5	Averaged	7.13			6507103.75	
Aroclor 1260	1	Averaged	6.23			8862352.50	
Aroclor 1260	2	Averaged	5.46			10014373.30	
Aroclor 1260	3	Averaged	4.78			4779803.15	
Aroclor 1260	4	Averaged	5.71			2915110.60	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1260	5	Averaged	5.76			2638735.95	
Decachlorobiphenyl (S)		Averaged	9.39			109559990.6	
Tetrachloro-m-xylene		Averaged	1.89			123295106.0	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1016	1	3.318	3.317	3.317	3.317	3.318	3.318	3.284	3.352
Aroclor 1016	2	3.513	3.513	3.512	3.512	3.512	3.512	3.478	3.546
Aroclor 1016	3	3.826	3.826	3.826	3.826	3.826	3.826	3.792	3.86
Aroclor 1016	4	3.928	3.929	3.928	3.929	3.928	3.929	3.895	3.963
Aroclor 1016	5	3.995	3.994	3.994	3.995	3.994	3.994	3.96	4.028
Aroclor 1221	1	1.803	1.804	1.804	1.804	1.806	1.804	1.77	1.838
Aroclor 1221	2	2.406	2.407	2.407	2.407	2.407	2.407	2.373	2.441
Aroclor 1221	3	2.687	2.688	2.688	2.688	2.688	2.688	2.654	2.722
Aroclor 1221	4	2.789	2.789	2.79	2.789	2.789	2.789	2.755	2.823
Aroclor 1221	5	2.851	2.851	2.851	2.851	2.851	2.851	2.817	2.885
Aroclor 1242	1	3.318	3.318	3.317	3.318	3.318	3.318	3.284	3.352
Aroclor 1242	2	3.513	3.513	3.513	3.513	3.513	3.513	3.479	3.547
Aroclor 1242	3	3.826	3.826	3.827	3.827	3.827	3.827	3.793	3.861
Aroclor 1242	4	3.928	3.929	3.929	3.93	3.929	3.929	3.895	3.963
Aroclor 1242	5	3.995	3.994	3.995	3.995	3.994	3.995	3.961	4.029
Aroclor 1248	1	4.261	4.261	4.261	4.261	4.261	4.261	4.227	4.295
Aroclor 1248	2	4.546	4.545	4.545	4.545	4.545	4.546	4.512	4.58
Aroclor 1248	3	4.814	4.813	4.813	4.813	4.813	4.812	4.778	4.846
Aroclor 1248	4	4.879	4.878	4.879	4.878	4.879	4.879	4.845	4.913
Aroclor 1248	5	5.037	5.036	5.037	5.038	5.037	5.038	5.004	5.072
Aroclor 1254	1	5.163	5.162	5.163	5.162	5.163	5.162	5.128	5.196
Aroclor 1254	2	5.408	5.407	5.407	5.407	5.407	5.408	5.374	5.442
Aroclor 1254	3	5.51	5.51	5.51	5.509	5.51	5.51	5.476	5.544
Aroclor 1254	4	6.026	6.026	6.026	6.027	6.027	6.027	5.993	6.061
Aroclor 1254	5	6.299	6.299	6.299	6.299	6.299	6.299	6.265	6.333
Aroclor 1260	1	6.3	6.3	6.299	6.3	6.299	6.3	6.266	6.334
Aroclor 1260	2	7.006	7.006	7.005	7.005	7.005	7.006	6.972	7.04
Aroclor 1260	3	7.252	7.252	7.251	7.252	7.251	7.251	7.217	7.285

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 12:07 19:39

LAB FILE ID

CAL1A =	030618.B\030618058.D	CAL1B =	030618.B\030618022.D	CAL1C =	030618.B\030618046.D
CAL1D =	030618.B\030618034.D	CAL1F =	030618.B\030618010.D	CAL2A =	030618.B\030618060.D
CAL2B =	030618.B\030618024.D	CAL2C =	030618.B\030618048.D	CAL2D =	030618.B\030618036.D
CAL2F =	030618.B\030618012.D	CAL3A =	030618.B\030618062.D	CAL3B =	030618.B\030618026.D
CAL3C =	030618.B\030618050.D	CAL3D =	030618.B\030618038.D	CAL3F =	030618.B\030618014.D
CAL4A =	030618.B\030618064.D	CAL4B =	030618.B\030618028.D	CAL4C =	030618.B\030618052.D
CAL4D =	030618.B\030618040.D	CAL4F =	030618.B\030618016.D	CAL5A =	030618.B\030618066.D
CAL5B =	030618.B\030618030.D	CAL5C =	030618.B\030618054.D	CAL5D =	030618.B\030618042.D
CAL5F =	030618.B\030618018.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1260	4	7.444	7.443	7.443	7.443	7.443	7.443	7.409	7.477
Aroclor 1260	5	7.902	7.9	7.901	7.901	7.9	7.901	7.867	7.935
Decachlorobiphenyl (S)		8.572	8.572	8.571	8.571	8.571	8.571	8.537	8.605
Tetrachloro-m-xylene		2.485	2.484	2.484	2.484	2.485	2.484	2.45	2.518

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION DATA (SINGLE POINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151614

Calibration Date(s): 03/06/2018 Calibration Time(s): 11:50

LAB FILE ID

CAL3S = 030618.B\030618008.D

COMPOUND	AMOUNT	PEAK	RT	RT WINDOW		RESPONSE FACTOR
				FROM	TO	
Aroclor 1232	.5	1	2.851	2.817	2.885	2500024.00
Aroclor 1232	.5	2	3.513	3.479	3.547	1339782.00
Aroclor 1232	.5	3	3.827	3.793	3.861	3749726.00
Aroclor 1232	.5	4	3.929	3.895	3.963	1606492.00
Aroclor 1232	.5	5	3.995	3.961	4.029	1091876.00

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	64094	46184	0.721	0.24		
1.429	37762	31672	0.839	0.14		
1.535	16372	12525	0.765	0.06		
1.688	12215	10878	0.891	0.04		
1.804	291016	252430	0.867	1.10		
2.011	33236	24341	0.732	0.12		
2.198	82778	71506	0.864	0.31		
2.407	191146	142081	0.743	0.72		
2.485	5780151	5532286	0.957	22.35		
2.688	419741	347465	0.828	1.59		
2.789	391882	367897	0.939	1.48		
2.851	1250012	1144522	0.916	4.74	4 Aroclor 1232	BA
3.028	21736	20469	0.942	0.08		
3.055	85135	77802	0.914	0.32		
3.280	70307	52213	0.743	0.26		
3.319	723460	656407	0.907	2.74		
3.344	391395	363151	0.928	1.48		
3.434	120283	103424	0.860	0.45		
3.514	669892	480513	0.717	2.54	4 Aroclor 1232	BA
3.611	20898	19814	0.948	0.07		
3.698	27644	23229	0.840	0.10		
3.733	173570	179973	1.037	0.65		
3.757	122922	116095	0.944	0.46		
3.827	1874863	1087503	0.580	7.12	4 Aroclor 1232	BA
3.929	803247	685069	0.853	3.05	4 Aroclor 1232	BA
3.995	545938	536580	0.983	2.07	4 Aroclor 1232	BA
4.059	141928	130174	0.917	0.53		
4.137	62125	51170	0.824	0.23		
4.216	393609	374181	0.951	1.49		
4.261	373167	361789	0.970	1.41		
4.294	162815	169097	1.039	0.61		
4.310	204739	187151	0.914	0.77		
4.371	21919	15566	0.710	0.08		
4.418	536617	502916	0.937	2.03		
4.452	418871	298669	0.713	1.59		
4.546	683890	623608	0.912	2.59		
4.618	163410	151749	0.929	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	14650	12034	0.821	0.05	
4.730	43779	30964	0.707	0.16	
4.769	38954	36822	0.945	0.14	
4.814	304752	292334	0.959	1.15	
4.848	526734	522616	0.992	2.00	
4.880	691689	534310	0.772	2.62	
4.958	81081	59242	0.731	0.30	
5.038	573825	543275	0.947	2.17	
5.099	111947	85321	0.762	0.42	
5.163	131671	111235	0.845	0.50	
5.213	95848	80980	0.845	0.36	
5.307	24699	21694	0.878	0.09	
5.363	86500	72230	0.835	0.32	
5.408	138303	112479	0.813	0.52	
5.447	83276	72672	0.873	0.31	
5.492	30778	35064	1.139	0.11	
5.511	193150	166298	0.861	0.73	
5.605	68006	59493	0.875	0.25	
5.676	16334	15605	0.955	0.06	
5.708	52967	20705	0.391	0.20	
5.793	143283	113467	0.792	0.54	
5.888	27037	15011	0.555	0.10	
6.026	118842	104296	0.878	0.45	
6.056	34574	29464	0.852	0.13	
6.171	24413	14466	0.593	0.09	
6.302	43529	35888	0.824	0.16	
6.447	25328	16811	0.664	0.09	
6.511	16971	13602	0.801	0.06	
7.005	21863	21930	1.003	0.08	
7.129	17051	15791	0.926	0.06	
7.254	11045	10898	0.987	0.04	
7.728	22228	20096	0.904	0.08	
7.779	25468	15517	0.609	0.09	
8.277	43793	37397	0.854	0.16	
8.379	30735	21976	0.715	0.11	
8.573	4915144	4232662	0.861	18.67	
8.944	38971	23332	0.599	0.14	
9.470	37385	22307	0.597	0.14	
9.964	32743	21879	0.668	0.12	
	26324135	22924262		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1250012	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669891	0.50000	0.50	0.00- 20.00	53.59	BA
3.827	3.827	0.000	1874863	0.50000	0.50	0.00- 20.00	149.99	BA
3.929	3.929	0.000	803246	0.50000	0.50	0.00- 20.00	64.26	BA
3.995	3.995	0.000	545938	0.50000	0.50	0.00- 20.00	43.67	BA
Average of Peak Amounts =					0.50000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D

Date : 06-MAR-2018 11:50

Client ID: 1232-CAL3S

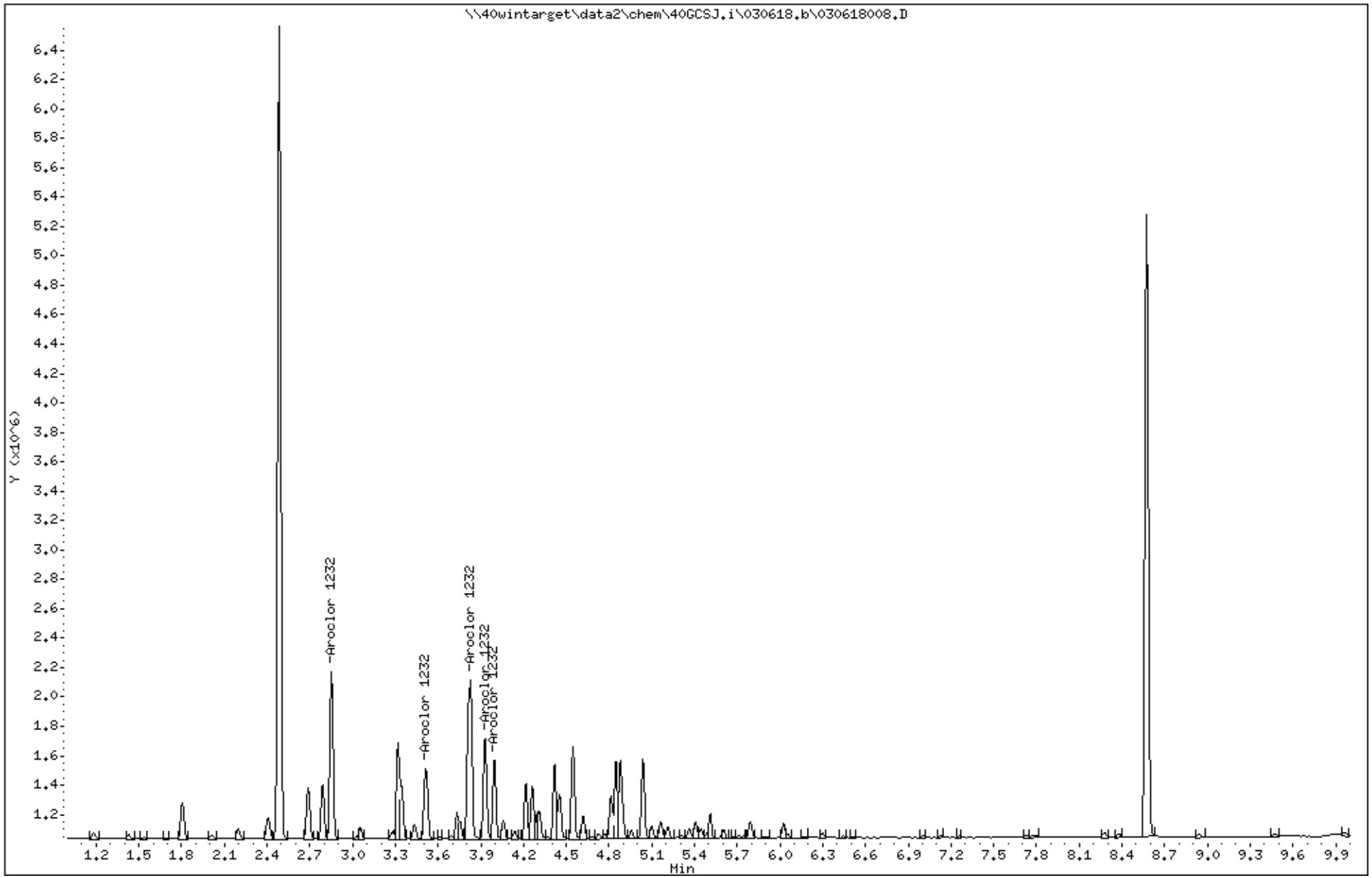
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

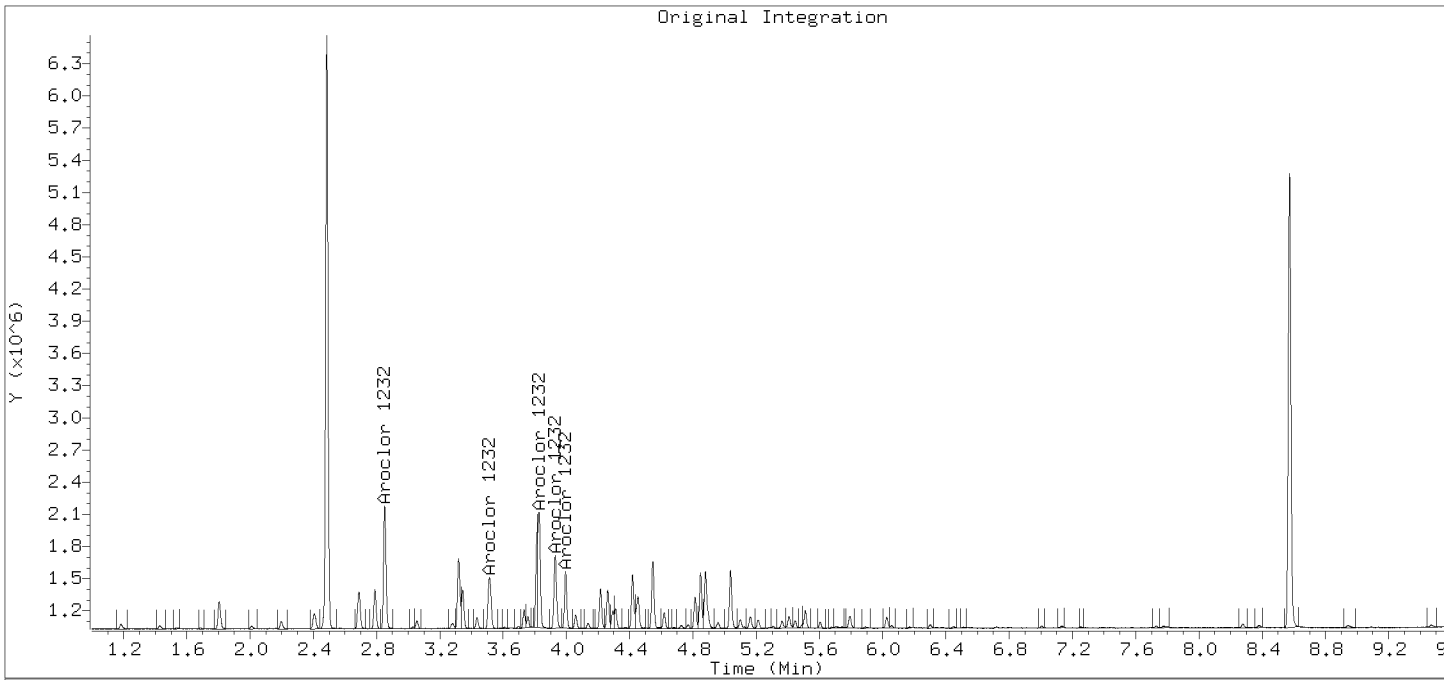
Operator: BLM

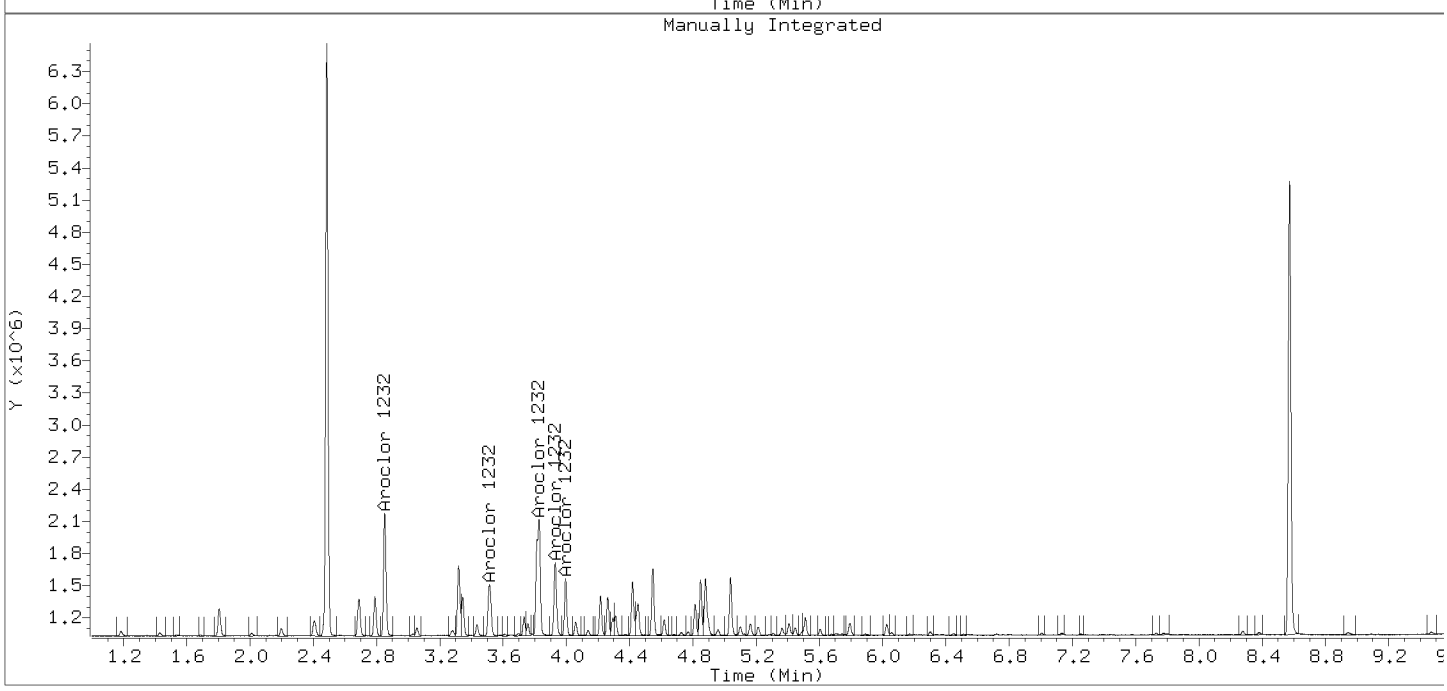
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618008.D (ManInt: NSAR1232.sub Orig: NSAR1232.sub)
Injection Date: 06-MAR-2018 11:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CAL3S





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA
Aroclor 1232	1234986	1250012	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	13612	11288	0.829	0.38		
1.804	116885	98810	0.845	3.31	1 Aroclor 1221	BA
2.197	36039	30499	0.846	1.02		
2.407	61218	44733	0.731	1.73	1 Aroclor 1221	BA
2.485	1172586	1134895	0.968	33.37		
2.688	150512	119908	0.797	4.27	1 Aroclor 1221	BA
2.790	118144	107550	0.910	3.35	1 Aroclor 1221	BA
2.852	349220	309600	0.887	9.90	1 Aroclor 1221	BA
3.279	28274	21896	0.774	0.80		
3.325	85123	48119	0.565	2.41		
3.380	10358	5756	0.556	0.29		
3.436	15926	10893	0.684	0.45		
3.513	38645	25267	0.654	1.09		
3.733	9954	10584	1.063	0.28		
3.817	38159	24082	0.631	1.08		
3.928	37088	28113	0.758	1.05		
3.996	22534	20384	0.905	0.63		
4.260	9635	9376	0.973	0.27		
4.546	10833	12359	1.141	0.30		
4.881	15313	10912	0.713	0.43		
5.040	11422	9410	0.824	0.32		
8.278	12362	11919	0.964	0.35		
8.380	10282	8381	0.815	0.29		
8.572	1127356	960701	0.852	31.98		
8.936	10000	8119	0.812	0.28		
9.466	13059	9537	0.730	0.37		
	3524537	3093091		100.000		

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.803	1.804	-0.001	116884	0.10000	0.11	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	61218	0.10000	0.11	0.00- 20.00	52.38	BA
2.687	2.688	-0.001	150511	0.10000	0.11	0.00- 20.00	128.77	BA
2.789	2.789	0.000	118144	0.10000	0.11	0.00- 20.00	101.08	BA
2.851	2.851	0.000	349219	0.10000	0.11	0.00- 20.00	298.77	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

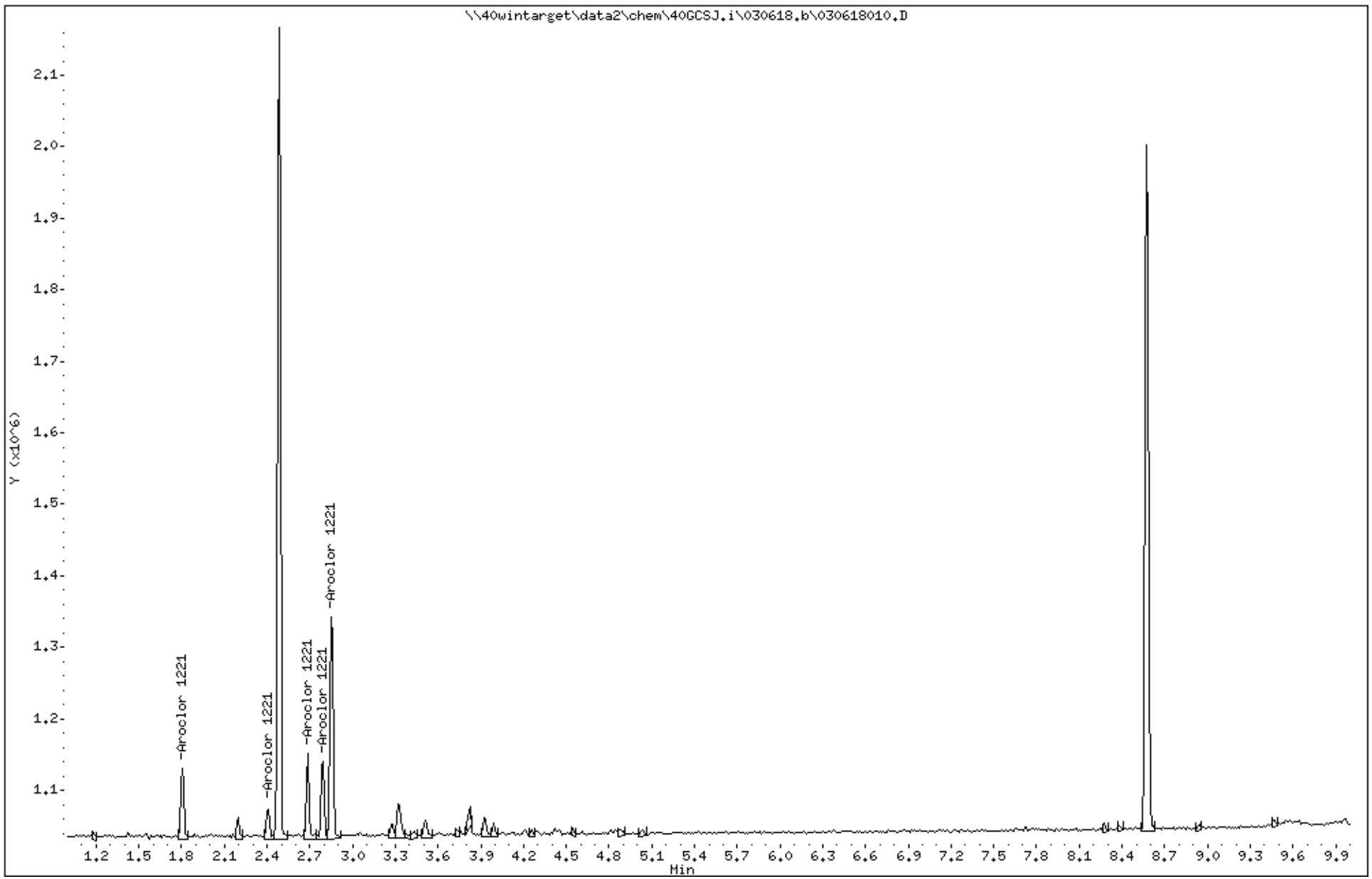
M - Compound response manually integrated.

Review Codes Legend

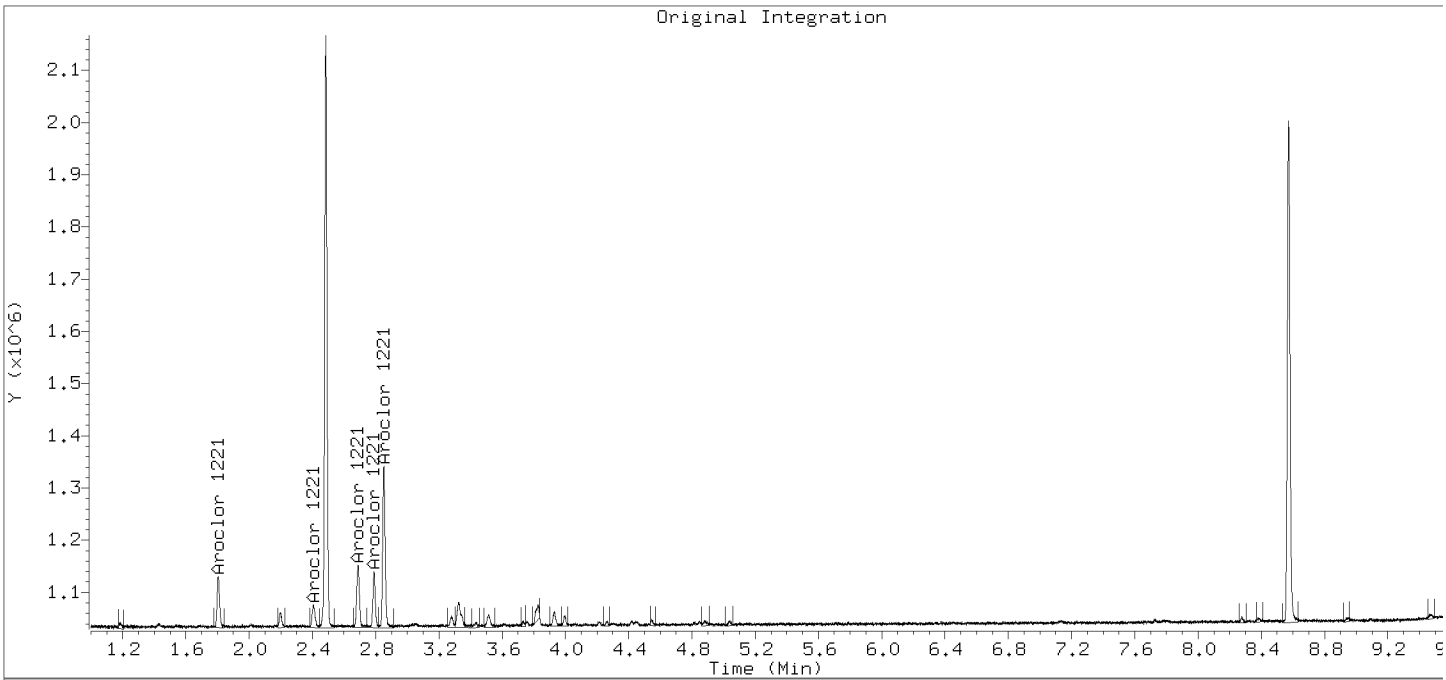
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

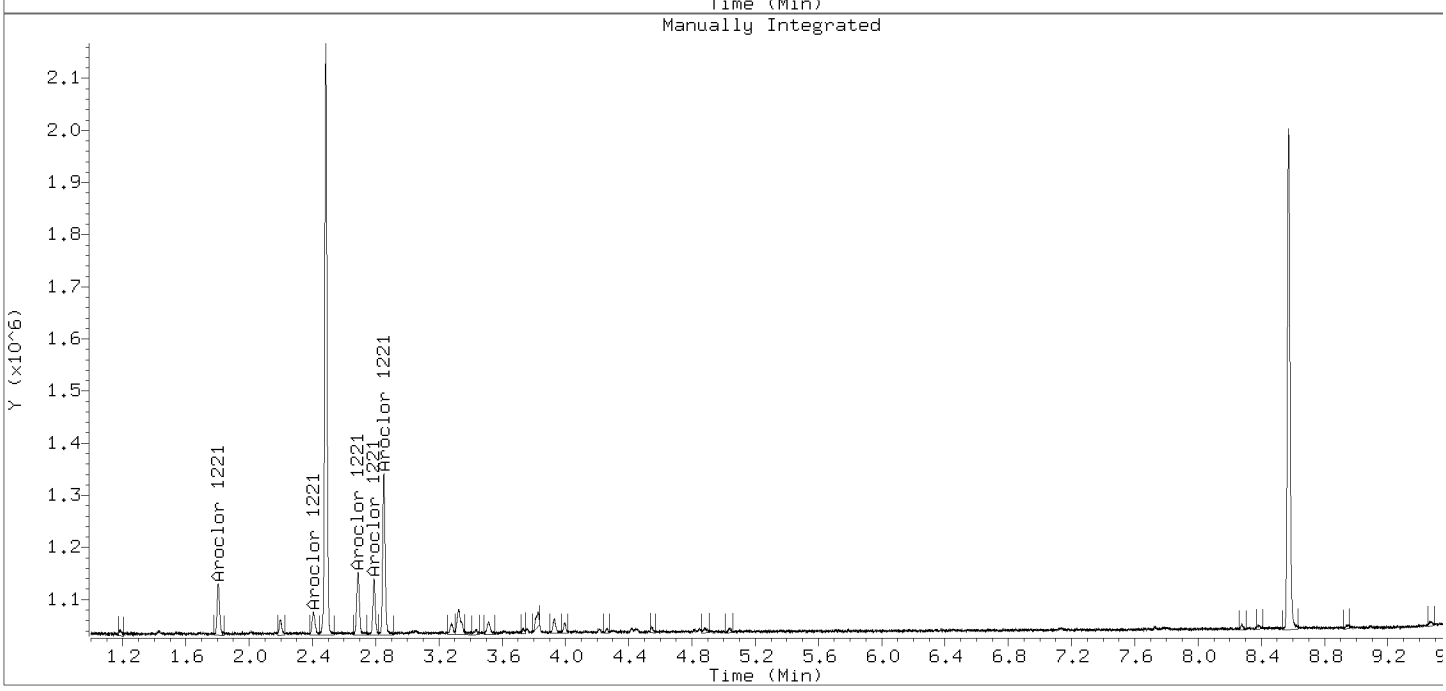
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618010.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL1F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA
Aroclor 1221	111828	116884	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	21110	15992	0.758	0.29		
1.432	19890	14202	0.714	0.27		
1.804	222151	196763	0.886	3.10	1 Aroclor 1221	BA
2.006	14074	10640	0.756	0.19		
2.198	66696	59685	0.895	0.93		
2.408	117491	84755	0.721	1.64	1 Aroclor 1221	BA
2.485	2389575	2280739	0.954	33.51		
2.688	289327	237824	0.822	4.03	1 Aroclor 1221	BA
2.790	230052	213818	0.929	3.21	1 Aroclor 1221	BA
2.852	694108	629495	0.907	9.69	1 Aroclor 1221	BA
3.055	24441	15851	0.649	0.34		
3.283	52341	38105	0.728	0.73		
3.322	162359	92875	0.572	2.26		
3.433	17768	16060	0.904	0.24		
3.514	68265	44434	0.651	0.95		
3.610	18983	11562	0.609	0.26		
3.733	17041	17575	1.031	0.23		
3.755	20072	17438	0.869	0.28		
3.827	142441	84122	0.591	1.98		
3.930	69577	57831	0.831	0.97		
3.996	47705	40519	0.849	0.66		
4.216	23635	18011	0.762	0.33		
4.261	14899	13886	0.932	0.20		
4.418	12729	14384	1.130	0.17		
4.547	21625	20493	0.948	0.30		
4.618	11602	9168	0.790	0.16		
4.848	13653	14682	1.075	0.19		
4.880	20209	15214	0.753	0.28		
5.040	16835	15081	0.896	0.23		
7.133	16511	8656	0.524	0.23		
7.728	11846	11710	0.989	0.16		
8.278	23007	17531	0.762	0.32		
8.378	9408	9279	0.986	0.13		
8.573	2192346	1884280	0.859	30.61		
8.940	11831	13025	1.101	0.16		
9.473	27497	16611	0.604	0.38		
9.964	28645	19011	0.664	0.39		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	7161743	6281307		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	222151	0.20000	0.21	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	117490	0.20000	0.21	0.00- 20.00	52.89	BA
2.688	2.688	0.000	289327	0.20000	0.21	0.00- 20.00	130.24	BA
2.789	2.789	0.000	230051	0.20000	0.21	0.00- 20.00	103.56	BA
2.851	2.851	0.000	694107	0.20000	0.21	0.00- 20.00	312.45	BA
Average of Peak Amounts =					0.21000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

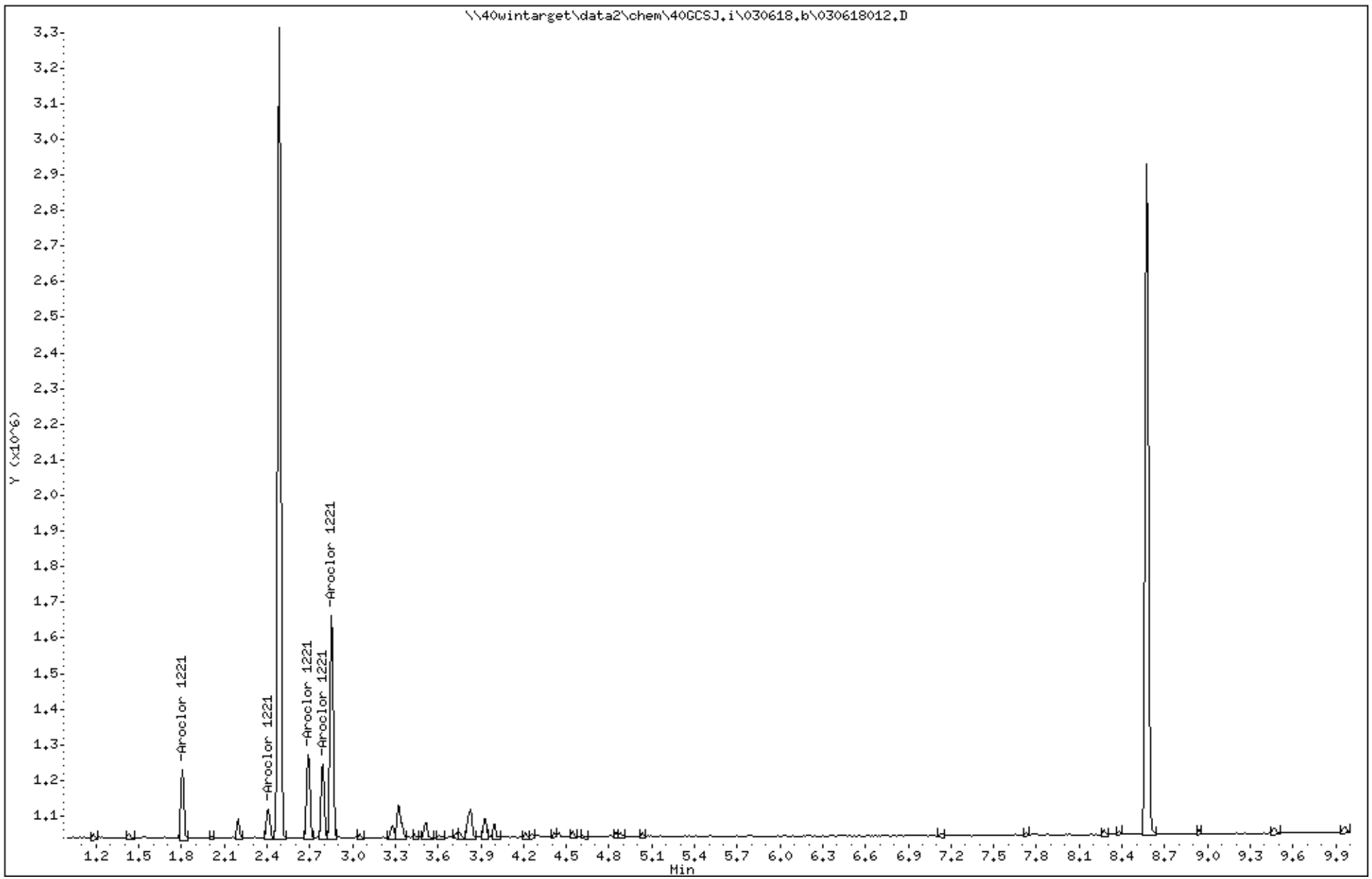
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

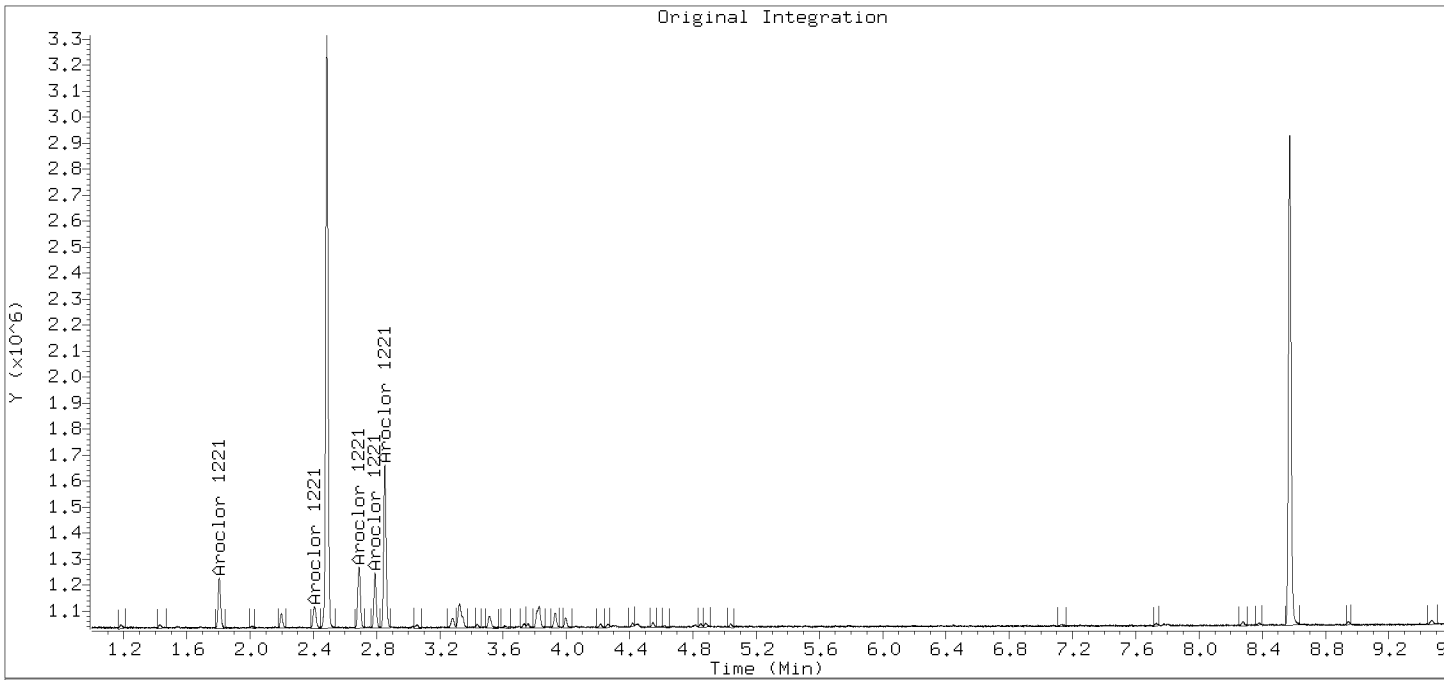
Operator: BLM

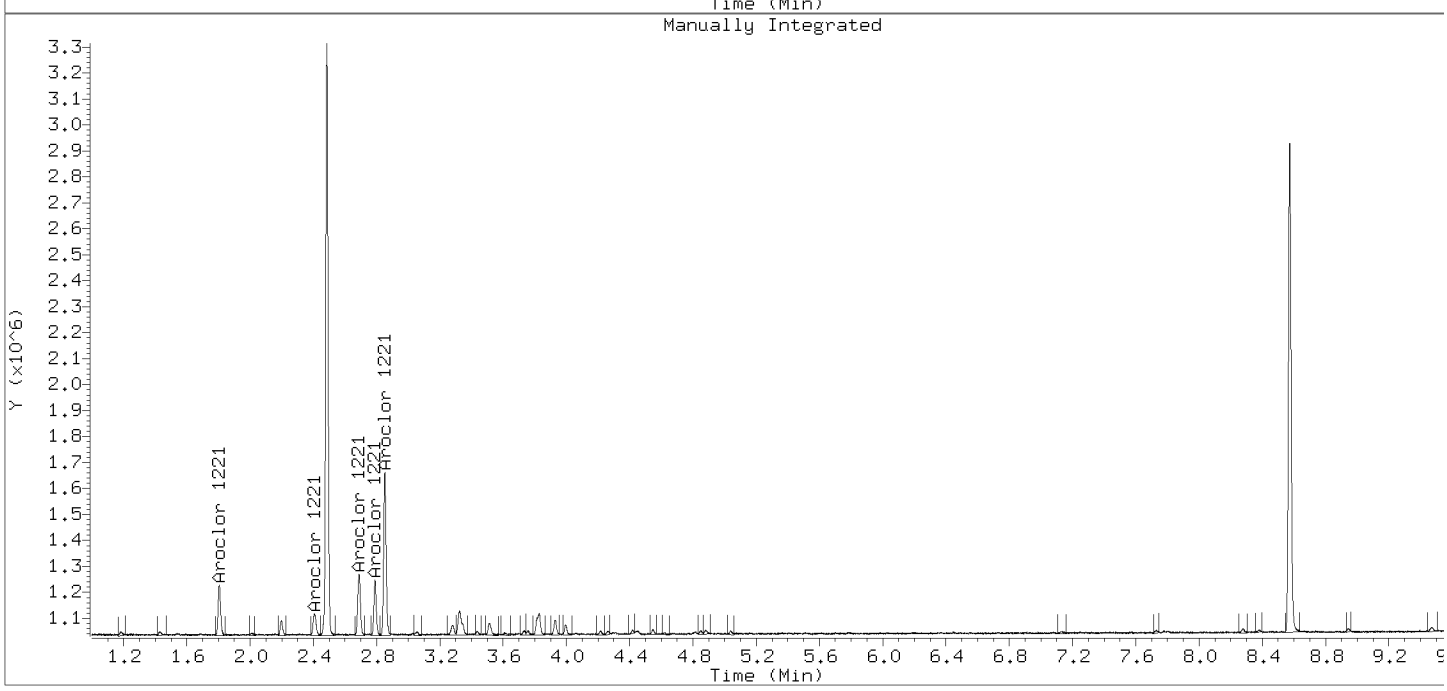
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618012.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL2F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA
Aroclor 1221	219680	222151	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	46886	34819	0.743	0.27		
1.429	37682	34000	0.902	0.22		
1.540	18475	13916	0.753	0.11		
1.686	12215	9839	0.805	0.07		
1.805	490239	441873	0.901	2.92	1 Aroclor 1221	BA
2.010	34778	21164	0.609	0.20		
2.197	148893	131934	0.886	0.88		
2.408	263311	192077	0.729	1.56	1 Aroclor 1221	BA
2.485	5899001	5597678	0.949	35.41		
2.688	658124	555463	0.844	3.92	1 Aroclor 1221	BA
2.790	519264	501204	0.965	3.09	1 Aroclor 1221	BA
2.851	1583519	1422292	0.898	9.43	1 Aroclor 1221	BA
3.030	16777	16577	0.988	0.09		
3.055	39004	30894	0.792	0.23		
3.213	9910	8832	0.891	0.05		
3.281	111839	84209	0.753	0.66		
3.325	365423	215871	0.591	2.17		
3.437	35737	30648	0.858	0.21		
3.514	140459	101998	0.726	0.83		
3.608	20183	17591	0.872	0.12		
3.732	32639	35941	1.101	0.19		
3.757	24903	28786	1.156	0.14		
3.827	309924	194764	0.628	1.84		
3.930	154650	131637	0.851	0.92		
3.996	105091	94784	0.902	0.62		
4.058	20977	14811	0.706	0.12		
4.215	34584	31722	0.917	0.20		
4.262	26916	30192	1.122	0.16		
4.292	16244	12494	0.769	0.09		
4.374	10462	9206	0.880	0.06		
4.418	41223	41705	1.012	0.24		
4.452	49711	28399	0.571	0.29		
4.545	54290	46656	0.859	0.32		
4.616	14003	11847	0.846	0.08		
4.812	21709	20229	0.932	0.12		
4.848	35650	33592	0.942	0.21		
4.882	55103	37630	0.683	0.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.039	36880	30922	0.838	0.21	
5.164	10614	9077	0.855	0.06	
5.703	10136	9806	0.967	0.06	
5.794	11063	9888	0.894	0.06	
6.450	15885	11521	0.725	0.09	
7.126	18110	12799	0.707	0.10	
7.730	23581	20558	0.872	0.14	
7.777	18011	13331	0.740	0.10	
7.801	14860	14996	1.009	0.08	
8.276	48701	37600	0.772	0.29	
8.381	26483	18054	0.682	0.15	
8.573	5020450	4347562	0.866	29.92	
8.945	30595	17805	0.582	0.18	
9.086	11785	9130	0.775	0.07	
9.963	22483	17745	0.789	0.13	
	16779431	14848068		100.000	

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	490239	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	263311	0.50000	0.48	0.00- 20.00	53.71	BA
2.688	2.688	0.000	658123	0.50000	0.48	0.00- 20.00	134.25	BA
2.790	2.789	0.001	519263	0.50000	0.47	0.00- 20.00	105.92	BA
2.851	2.851	0.000	1583519	0.50000	0.49	0.00- 20.00	323.01	BA
Average of Peak Amounts =					0.47800			

QC Flag Legend

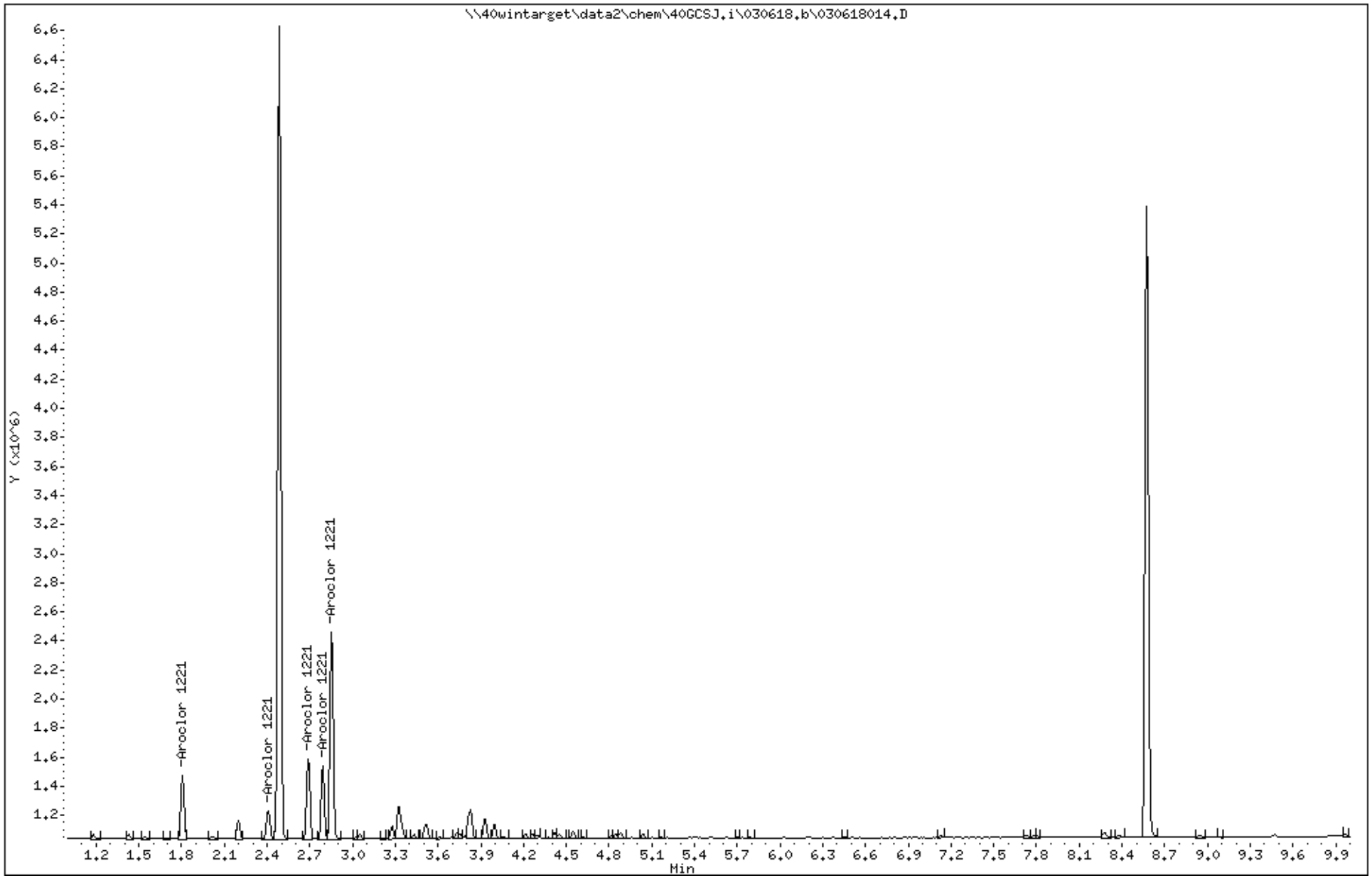
M - Compound response manually integrated.

Review Codes Legend

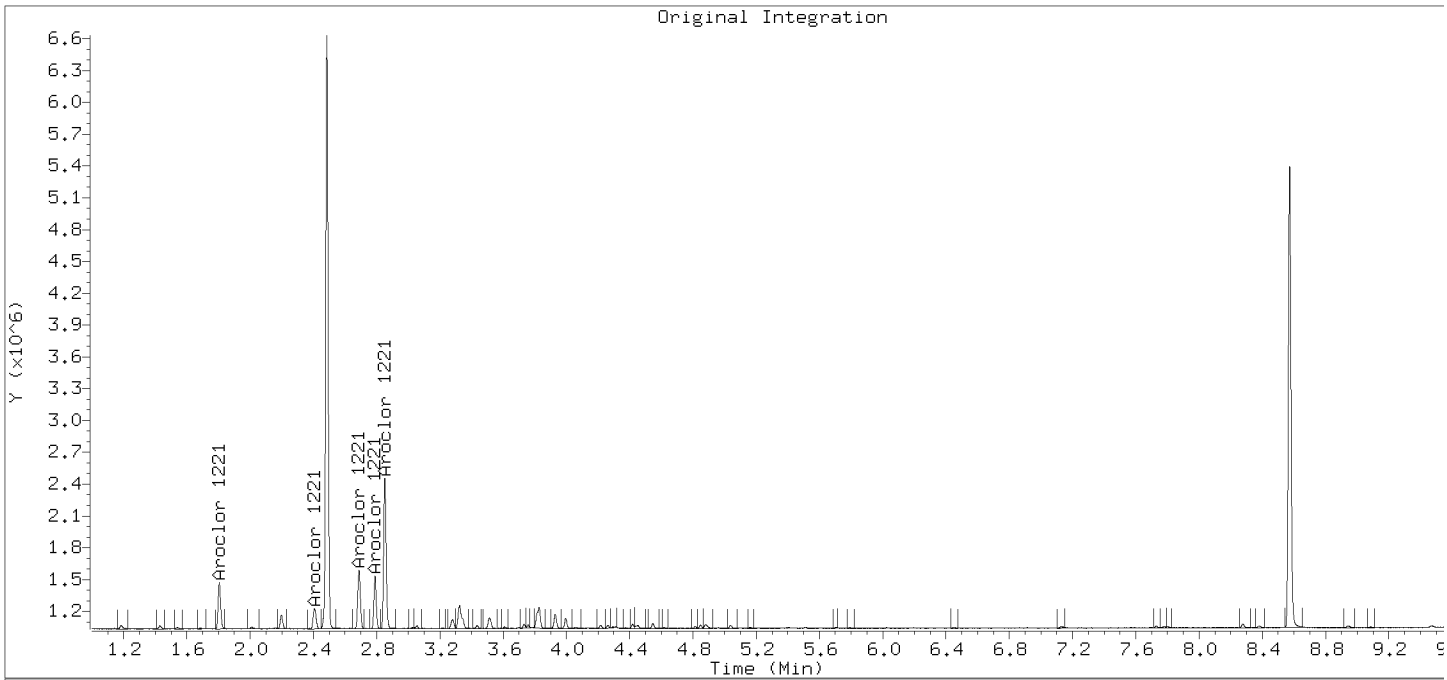
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

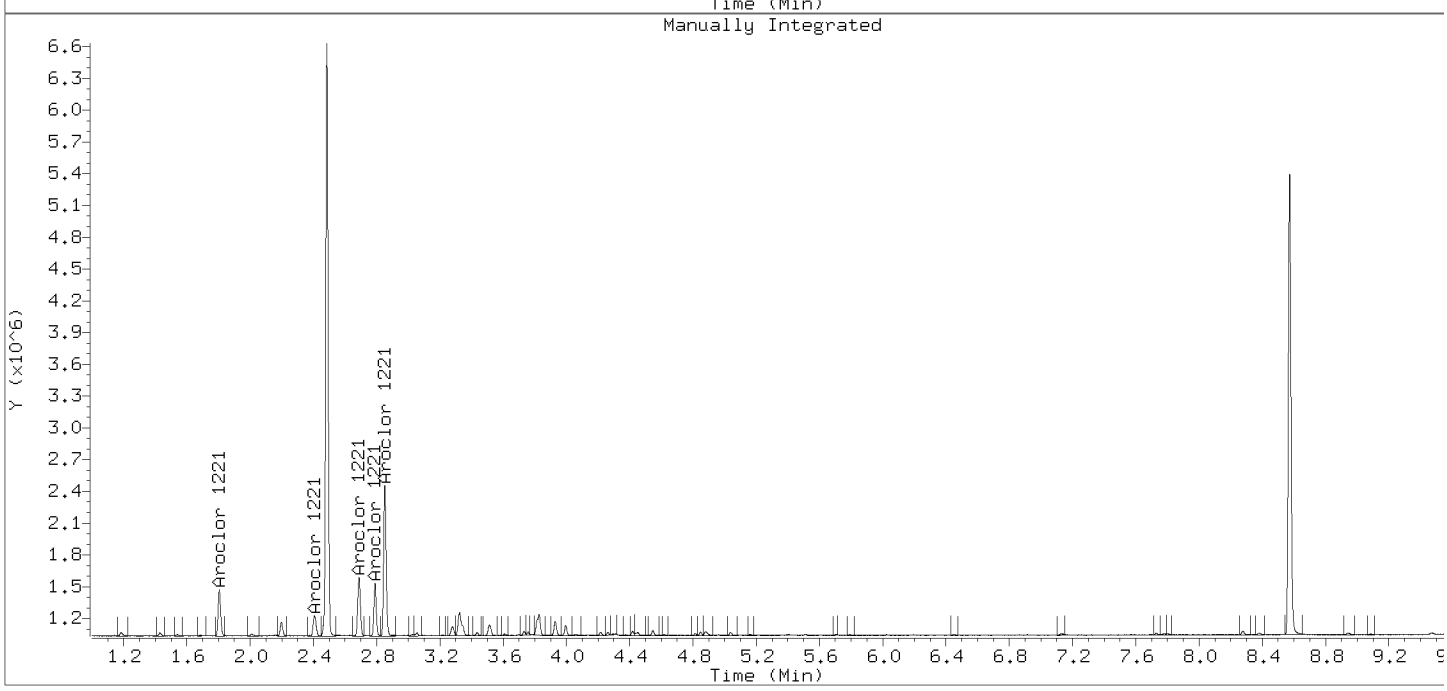
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618014.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL3F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA
Aroclor 1221	483261	490239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15077	12970	0.860	0.04		
1.430	62013	58411	0.942	0.20		
1.540	29523	27434	0.929	0.09		
1.682	10134	8214	0.811	0.03		
1.804	785551	700381	0.892	2.59	1 Aroclor 1221	BA
2.162	17608	16089	0.914	0.05		
2.197	232212	214361	0.923	0.76		
2.408	409142	300406	0.734	1.35	1 Aroclor 1221	BA
2.485	11502194	11125302	0.967	38.28		
2.689	1067134	893347	0.837	3.52	1 Aroclor 1221	BA
2.789	853931	817692	0.958	2.82	1 Aroclor 1221	BA
2.851	2470730	2197877	0.890	8.16	1 Aroclor 1221	BA
3.053	58135	49830	0.857	0.19		
3.280	178171	134368	0.754	0.58		
3.325	581244	339314	0.584	1.92		
3.436	58621	50800	0.867	0.19		
3.513	227025	162531	0.716	0.75		
3.611	30500	29323	0.961	0.10		
3.696	15508	16983	1.095	0.05		
3.732	59581	61761	1.037	0.19		
3.757	63343	56081	0.885	0.20		
3.827	512825	311364	0.607	1.69		
3.929	244641	209892	0.858	0.80		
3.995	150703	143674	0.953	0.49		
4.059	21801	19537	0.896	0.07		
4.134	11088	10051	0.906	0.03		
4.215	55304	52296	0.946	0.18		
4.260	51932	50173	0.966	0.17		
4.291	25327	22345	0.882	0.08		
4.311	24902	25307	1.016	0.08		
4.418	49634	53105	1.070	0.16		
4.443	38631	29989	0.776	0.12		
4.547	83853	73357	0.875	0.27		
4.617	26087	19117	0.733	0.08		
4.814	30317	32424	1.069	0.10		
4.849	51073	52237	1.023	0.16		
4.880	70316	49193	0.700	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.038	59957	50669	0.845	0.19	
5.103	12689	10469	0.825	0.04	
5.163	17456	13811	0.791	0.05	
5.216	17786	12808	0.720	0.05	
5.360	16391	9844	0.601	0.05	
5.406	16004	13419	0.838	0.05	
5.445	10313	9432	0.915	0.03	
5.512	20459	14813	0.724	0.06	
5.793	13847	11803	0.852	0.04	
7.123	27333	14055	0.514	0.09	
7.694	9264	9447	1.020	0.03	
7.729	46203	36902	0.799	0.15	
7.800	22162	20669	0.933	0.07	
8.276	84580	73604	0.870	0.27	
8.381	14600	14602	1.000	0.04	
8.573	9619023	8259708	0.859	31.79	
8.941	10654	8547	0.802	0.03	
9.090	21504	11989	0.558	0.07	
9.466	18951	12488	0.659	0.06	
9.960	21699	14589	0.672	0.07	
	30256687	27051204		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	785550	0.80000	0.75	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	409142	0.80000	0.75	0.00- 20.00	52.08	BA
2.688	2.688	0.000	1067134	0.80000	0.77	0.00- 20.00	135.85	BA
2.789	2.789	0.000	853931	0.80000	0.77	0.00- 20.00	108.70	BA
2.851	2.851	0.000	2470729	0.80000	0.76	0.00- 20.00	314.52	BA
Average of Peak Amounts =					0.76000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

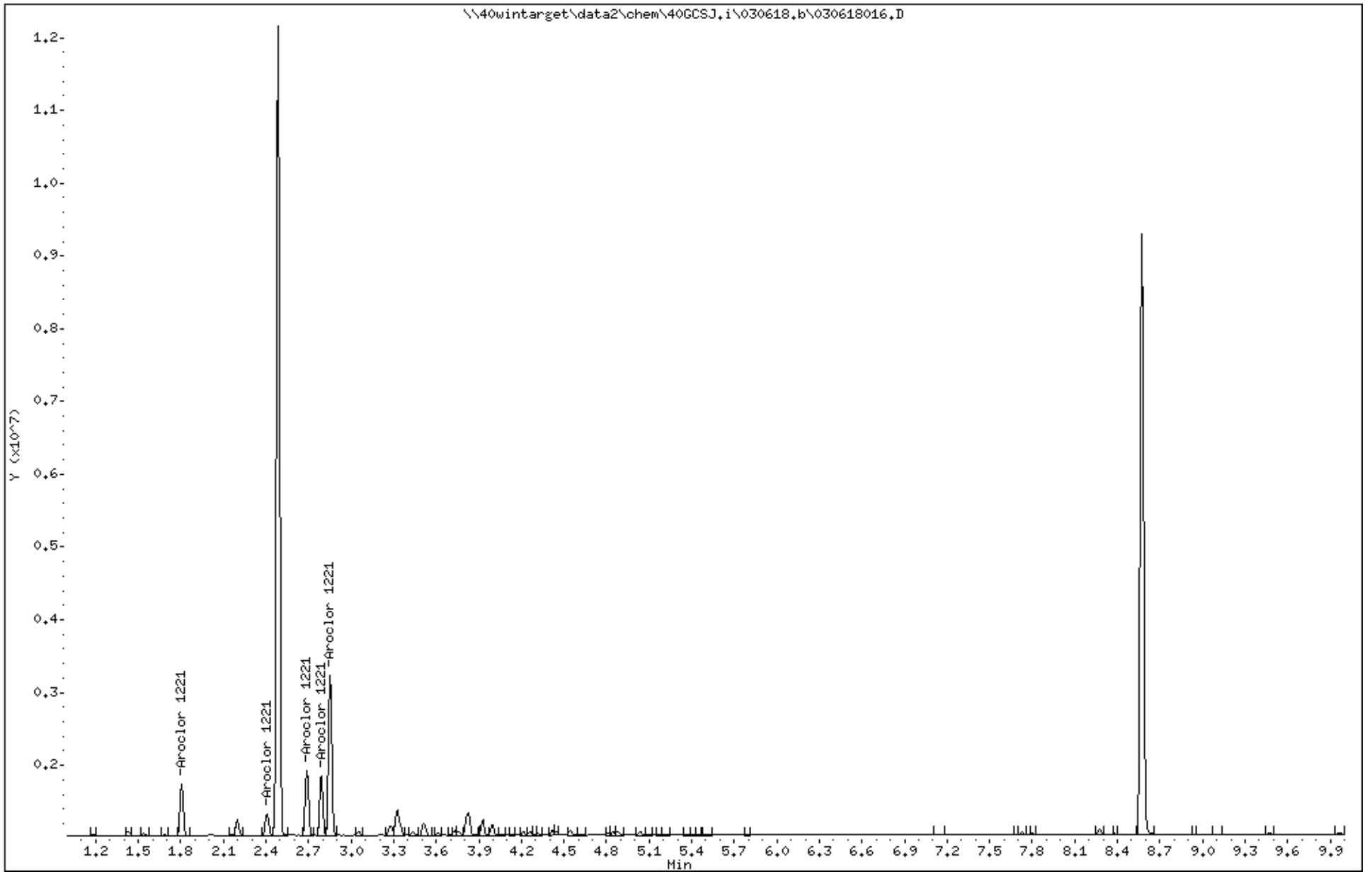
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

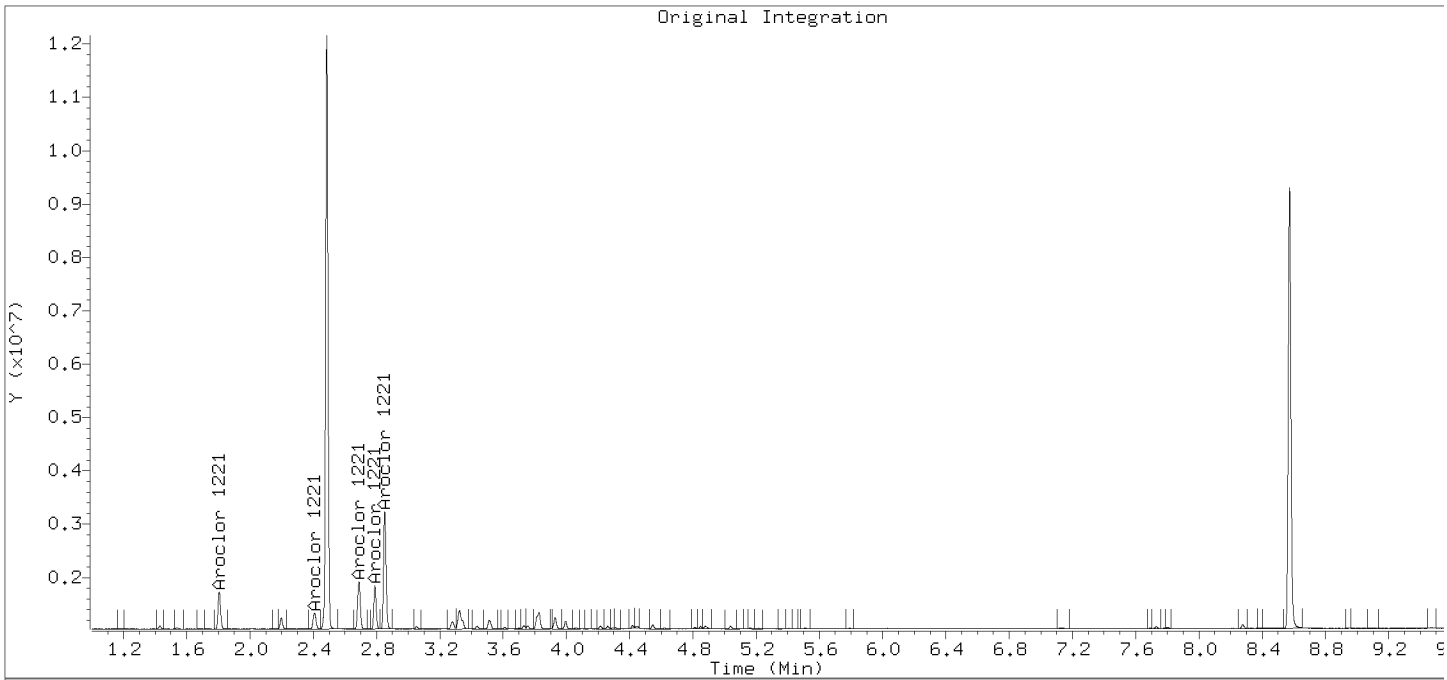
Operator: BLM

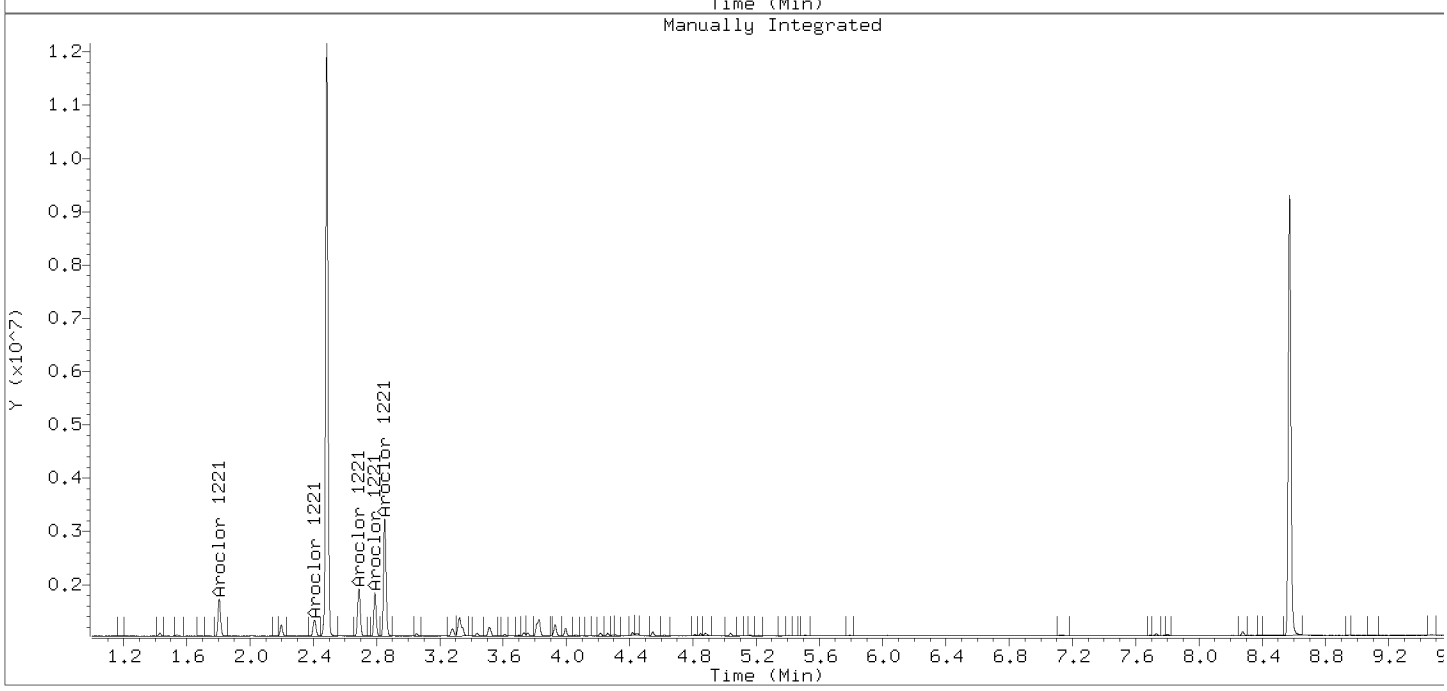
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618016.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL4F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA
Aroclor 1221	780911	785550	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	91782	83949	0.915	0.21		
1.539	45153	34415	0.762	0.10		
1.806	964273	851004	0.883	2.23	1 Aroclor 1221	BA
2.014	11838	7838	0.662	0.02		
2.160	16492	15827	0.960	0.03		
2.198	286599	255763	0.892	0.66		
2.408	501535	366636	0.731	1.16	1 Aroclor 1221	BA
2.486	17378255	16694368	0.961	40.52		
2.688	1314776	1093955	0.832	3.04	1 Aroclor 1221	BA
2.790	1091213	1024965	0.939	2.52	1 Aroclor 1221	BA
2.851	3058815	2705599	0.885	7.08	1 Aroclor 1221	BA
3.053	74407	64323	0.864	0.17		
3.217	18486	13382	0.724	0.04		
3.281	228692	172494	0.754	0.52		
3.325	747509	424295	0.568	1.73		
3.436	77500	63495	0.819	0.17		
3.513	280490	203651	0.726	0.64		
3.612	49578	44845	0.905	0.11		
3.701	23500	20479	0.871	0.05		
3.734	76655	76322	0.996	0.17		
3.757	81462	74126	0.910	0.18		
3.827	635271	385105	0.606	1.47		
3.929	312825	252728	0.808	0.72		
3.995	186590	175263	0.939	0.43		
4.062	31750	23556	0.742	0.07		
4.138	17974	12098	0.673	0.04		
4.217	72031	63997	0.888	0.16		
4.261	66789	61014	0.914	0.15		
4.293	54107	32297	0.597	0.12		
4.418	84432	78861	0.934	0.19		
4.451	94426	56177	0.595	0.21		
4.546	109930	92350	0.840	0.25		
4.618	33492	25022	0.747	0.07		
4.815	42406	39475	0.931	0.09		
4.849	68687	65653	0.956	0.15		
4.881	95718	65369	0.683	0.22		
4.957	18933	12531	0.662	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.037	71300	62002	0.870	0.16	
5.101	11578	12947	1.118	0.02	
5.162	15068	13787	0.915	0.03	
5.208	16758	12735	0.760	0.03	
5.363	13212	11132	0.843	0.03	
5.408	17007	15696	0.923	0.03	
5.445	14075	10385	0.738	0.03	
5.512	25865	18240	0.705	0.05	
5.792	16968	13288	0.783	0.03	
6.028	13891	11907	0.857	0.03	
7.125	30918	19205	0.621	0.07	
7.692	13631	9457	0.694	0.03	
7.729	65348	56318	0.862	0.15	
7.802	42671	34037	0.798	0.09	
8.277	126824	104866	0.827	0.29	
8.379	18877	14713	0.779	0.04	
8.573	14268732	12292631	0.862	33.03	
8.940	12885	8913	0.692	0.02	
9.089	24129	17399	0.721	0.05	
9.468	12972	8897	0.686	0.03	
9.969	15122	10700	0.708	0.03	
	43192203	38492482		100.000	

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	964273	1.00000	0.93	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	501535	1.00000	0.92	0.00- 20.00	52.01	BA
2.688	2.688	0.000	1314775	1.00000	0.95	0.00- 20.00	136.35	BA
2.789	2.789	0.000	1091213	1.00000	0.99	0.00- 20.00	113.16	BA
2.851	2.851	0.000	3058814	1.00000	0.94	0.00- 20.00	317.21	BA
Average of Peak Amounts =					0.94600			

QC Flag Legend

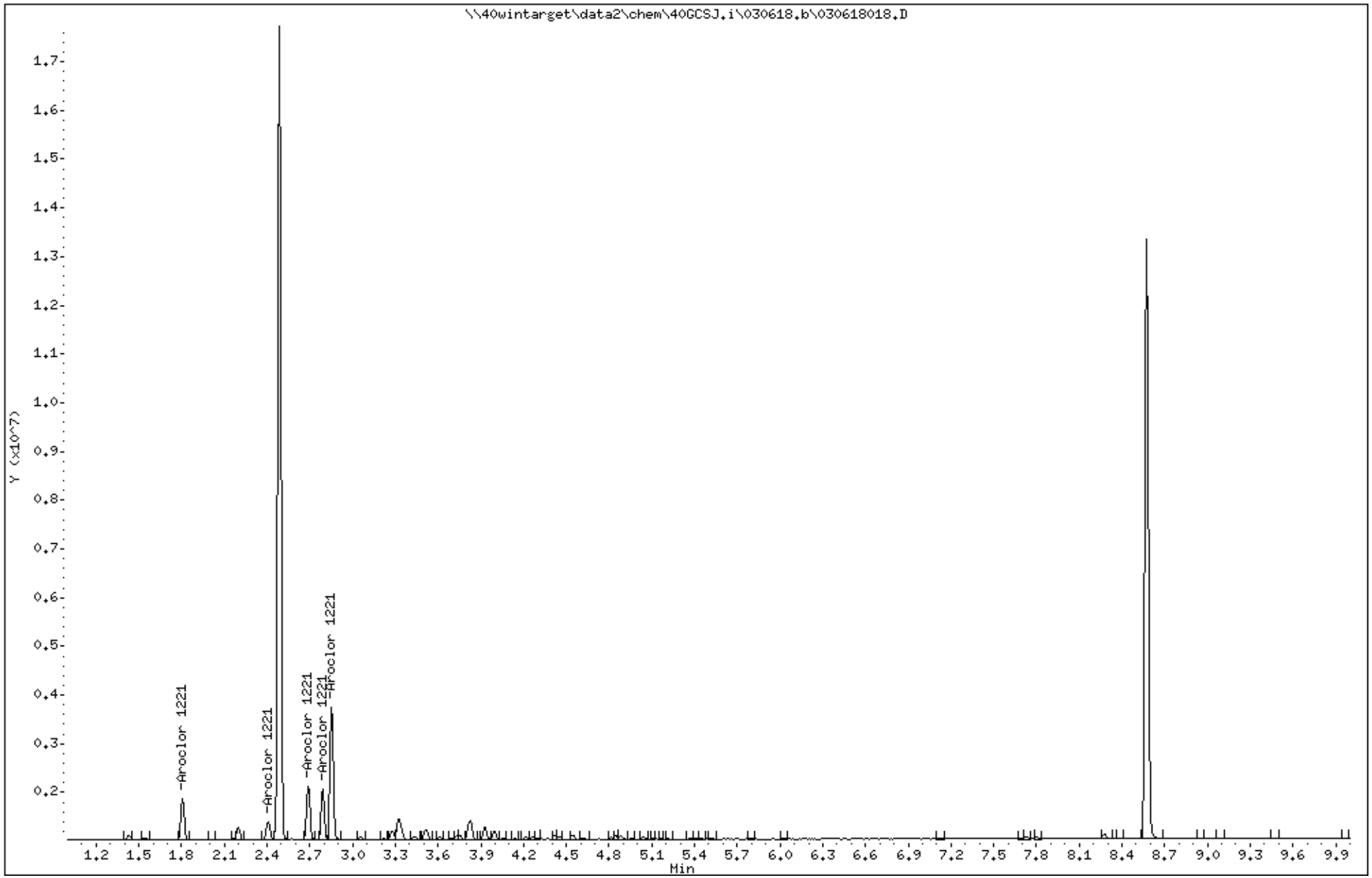
M - Compound response manually integrated.

Review Codes Legend

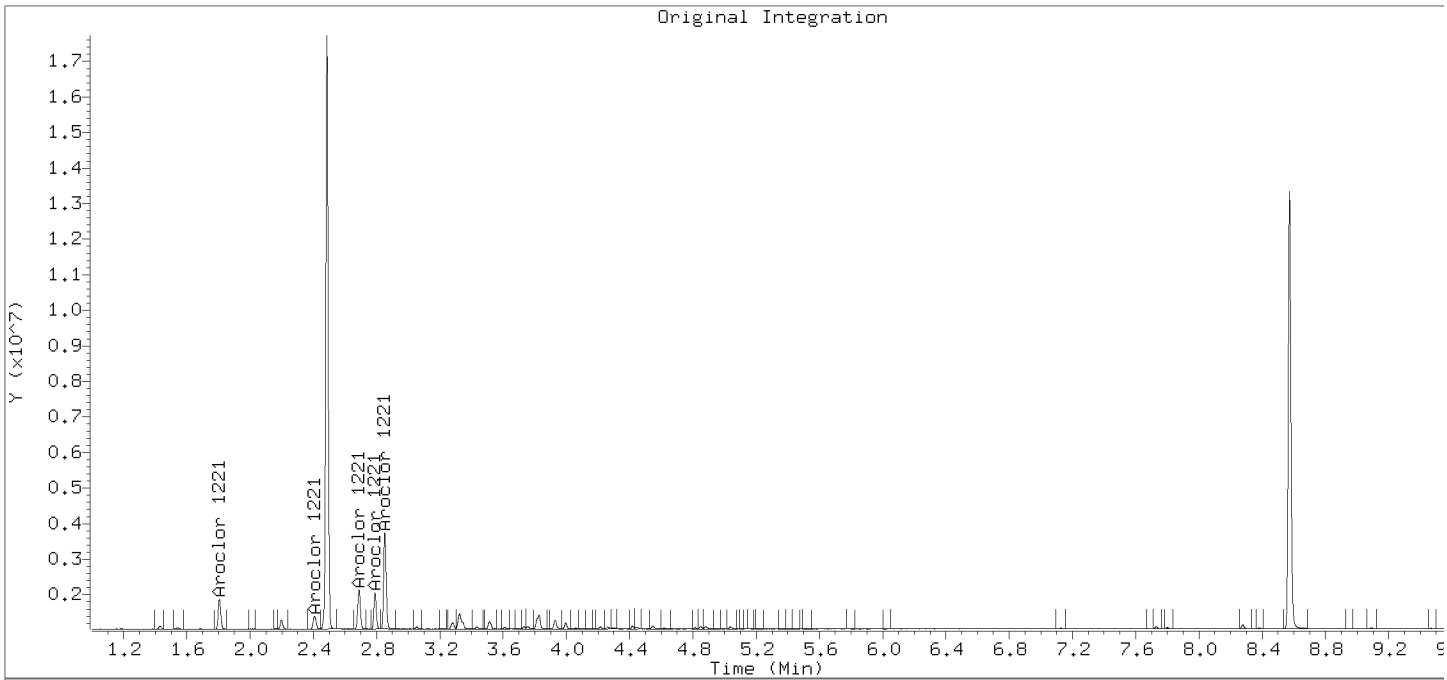
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

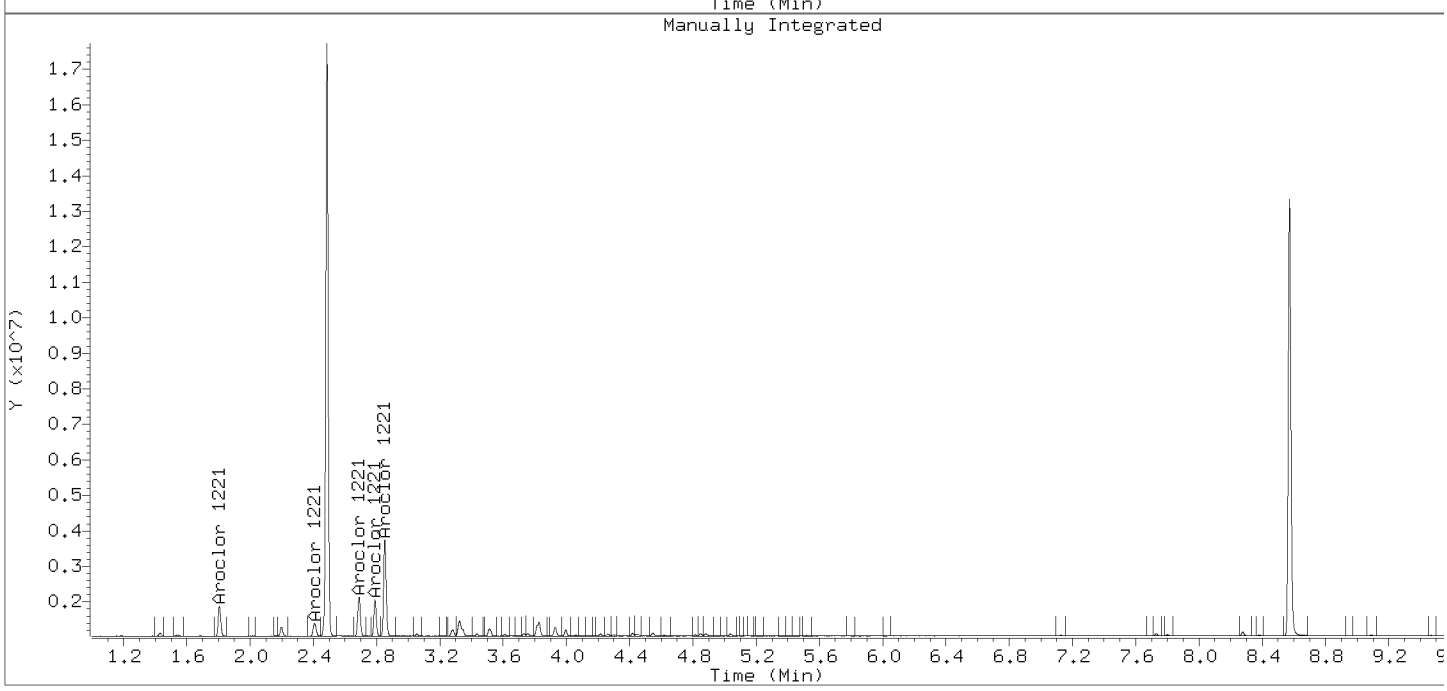
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618018.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 13:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL5F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA
Aroclor 1221	958762	964273	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	48353	40712	0.842	0.55		
1.685	15584	12605	0.809	0.18		
2.012	33033	24593	0.745	0.38		
2.403	26701	21656	0.811	0.30		
2.485	1268339	1220330	0.962	14.93		
2.688	45903	34473	0.751	0.53		
2.791	63166	56222	0.890	0.73		
2.851	204981	187245	0.913	2.37		
3.026	22317	19810	0.888	0.25		
3.055	37376	31867	0.853	0.43		
3.318	277256	257375	0.928	3.21	3 Aroclor 1242	BA
3.345	154841	150344	0.971	1.79		
3.435	49043	39609	0.808	0.56		
3.514	273951	193620	0.707	3.17	3 Aroclor 1242	BA
3.733	69544	68947	0.991	0.80		
3.757	45882	42206	0.920	0.53		
3.827	769590	449825	0.584	8.91	3 Aroclor 1242	BA
3.929	328754	270344	0.822	3.80	3 Aroclor 1242	BA
3.996	224743	217453	0.968	2.60	3 Aroclor 1242	BA
4.059	72772	62645	0.861	0.84		
4.135	32124	25139	0.783	0.37		
4.215	184258	174093	0.945	2.13		
4.262	175232	166947	0.953	2.02		
4.295	76283	77062	1.010	0.88		
4.310	94862	88633	0.934	1.09		
4.417	242650	230875	0.951	2.80		
4.453	185260	138108	0.745	2.14		
4.547	310173	288905	0.931	3.59		
4.617	78937	69004	0.874	0.91		
4.726	21360	16230	0.760	0.24		
4.770	22579	18643	0.826	0.26		
4.813	144508	140479	0.972	1.67		
4.848	244505	231221	0.946	2.83		
4.880	333816	245294	0.735	3.86		
4.958	38640	32017	0.829	0.44		
5.039	262014	232176	0.886	3.03		
5.099	55213	47400	0.858	0.63		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.164	71096	60506	0.851	0.82	
5.213	54601	49311	0.903	0.63	
5.310	15720	13003	0.827	0.18	
5.363	43486	39659	0.912	0.50	
5.407	75906	62166	0.819	0.87	
5.447	47603	40647	0.854	0.55	
5.511	110554	91386	0.827	1.28	
5.605	38987	31752	0.814	0.45	
5.702	21923	17168	0.783	0.25	
5.793	90266	69831	0.774	1.04	
5.888	18665	11476	0.615	0.21	
6.027	83046	57198	0.689	0.96	
6.301	23663	20357	0.860	0.27	
6.450	25108	16371	0.652	0.29	
7.135	16747	14415	0.861	0.19	
7.722	10233	8765	0.857	0.11	
7.774	20981	14974	0.714	0.24	
8.276	10004	11485	1.148	0.11	
8.381	26018	18613	0.715	0.30	
8.572	1221508	1021745	0.836	14.14	
8.943	31681	20256	0.639	0.36	
9.468	21143	16317	0.772	0.24	
9.964	23088	17512	0.758	0.26	
	8636569	7349020		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	277256	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	273950	0.10000	0.11	0.00- 20.00	98.81	BA
3.826	3.827	-0.001	769589	0.10000	0.11	0.00- 20.00	277.57	BA
3.928	3.929	-0.001	328754	0.10000	0.11	0.00- 20.00	118.57	BA
3.995	3.995	0.000	224742	0.10000	0.11	0.00- 20.00	81.06	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D

Date : 06-MAR-2018 13:44

Client ID: 1242-CAL1B

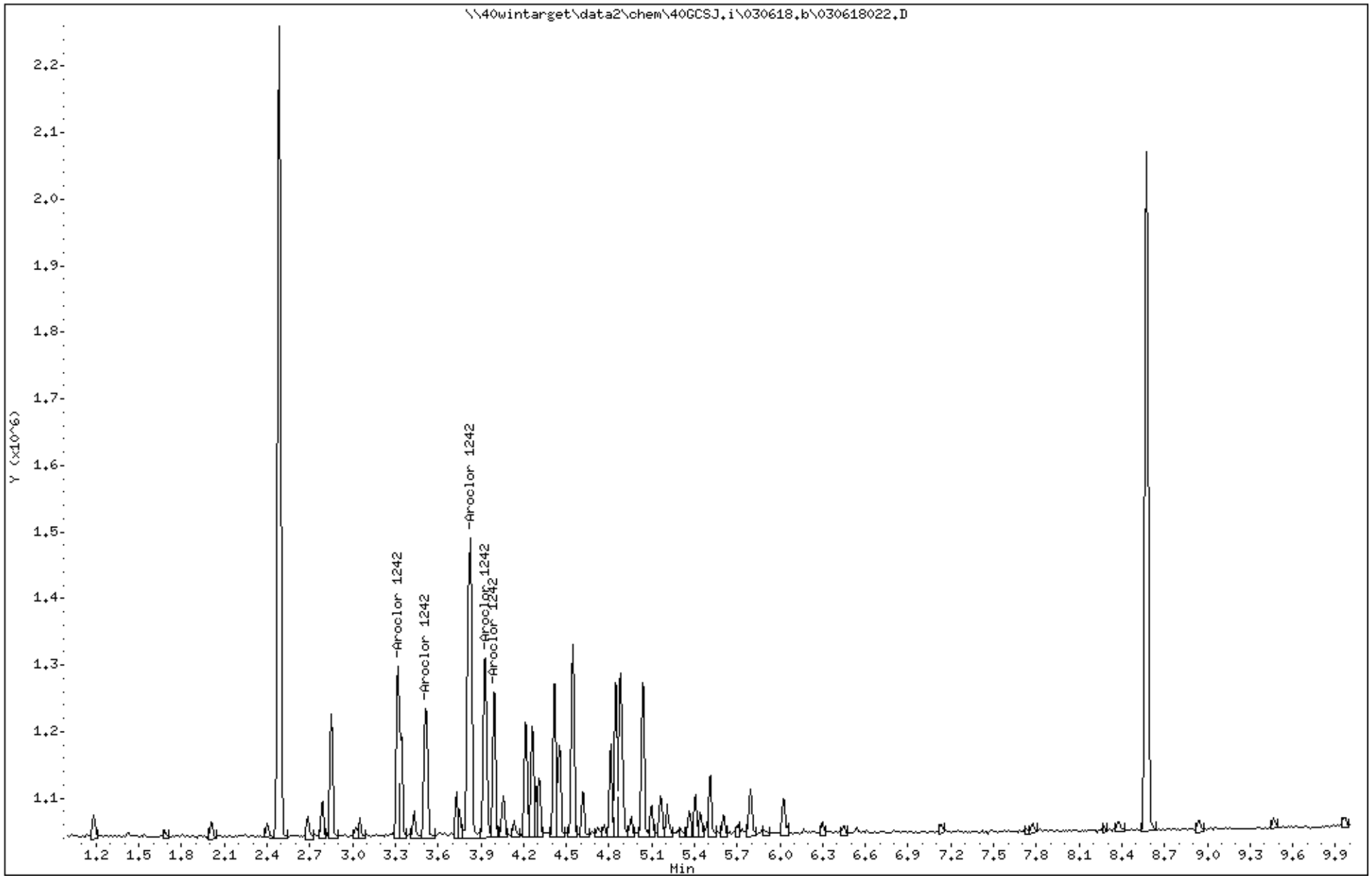
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

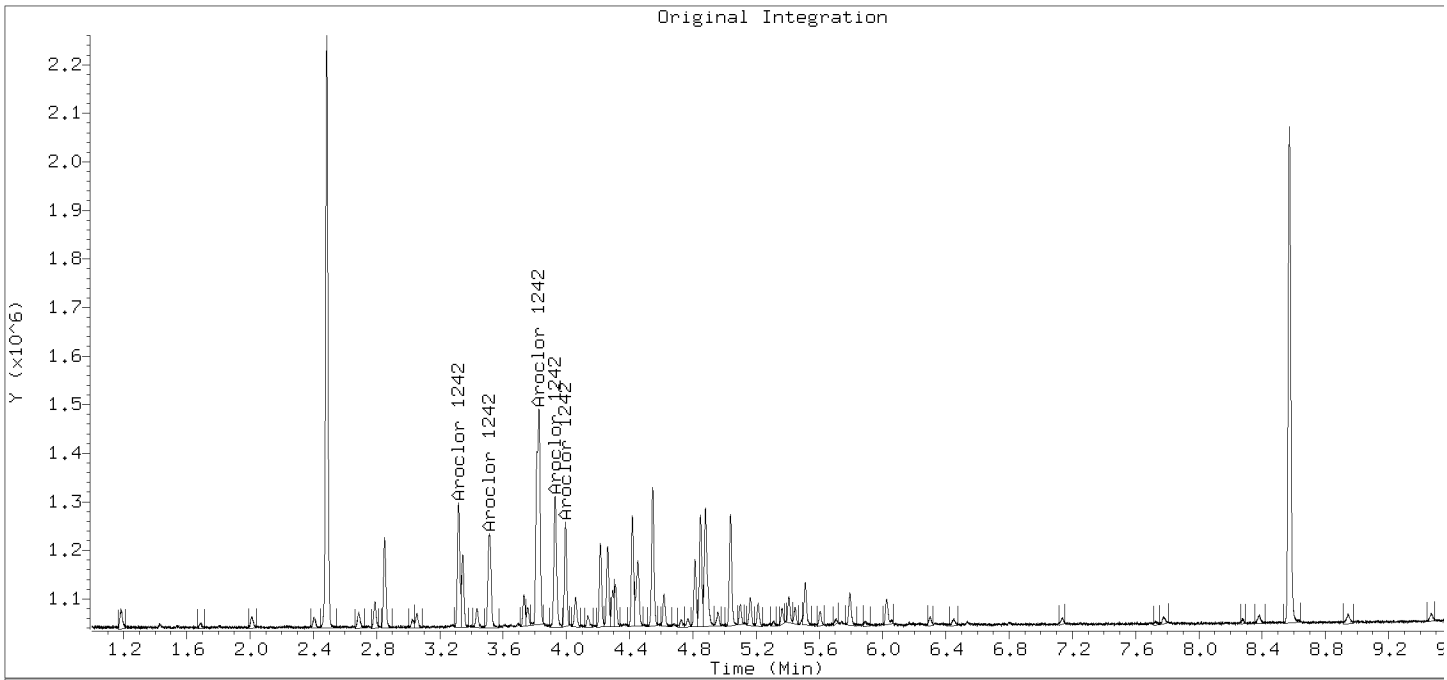
Operator: BLM

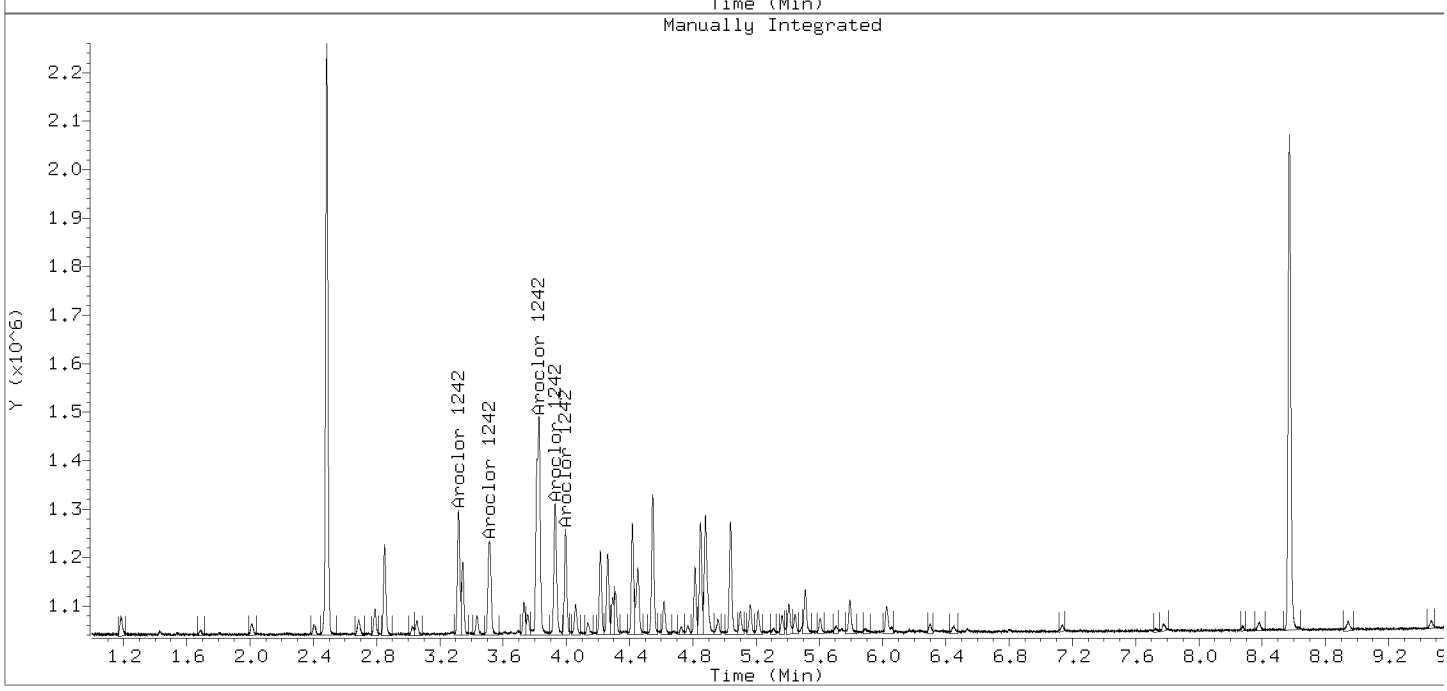
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618022.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 13:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL1B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA
Aroclor 1242	273881	277256	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	14220	11208	0.788	0.08		
1.430	13376	14873	1.112	0.08		
1.537	12556	8533	0.680	0.07		
1.684	10310	8364	0.811	0.06		
1.803	9301	8955	0.963	0.05		
2.404	53409	39369	0.737	0.33		
2.484	2424898	2340795	0.965	15.45		
2.685	71092	59059	0.831	0.44		
2.789	112696	106870	0.948	0.70		
2.851	383763	360025	0.938	2.38		
3.054	60192	54572	0.907	0.37		
3.319	537600	506479	0.942	3.34	3 Aroclor 1242	BA
3.344	300840	286923	0.954	1.87		
3.434	87992	78217	0.889	0.54		
3.514	520152	378008	0.727	3.23	3 Aroclor 1242	BA
3.607	13378	11603	0.867	0.08		
3.696	19908	16213	0.814	0.12		
3.732	129346	131457	1.016	0.80		
3.756	89938	85088	0.946	0.56		
3.826	1494620	886299	0.593	9.30	3 Aroclor 1242	BA
3.929	633849	547272	0.863	3.94	3 Aroclor 1242	BA
3.994	415519	392907	0.946	2.58	3 Aroclor 1242	BA
4.059	126568	116783	0.923	0.78		
4.137	53777	45505	0.846	0.33		
4.216	349073	338096	0.969	2.17		
4.261	336841	321968	0.956	2.09		
4.293	139012	148834	1.071	0.86		
4.310	185086	169258	0.914	1.15		
4.372	13133	10098	0.769	0.08		
4.418	470013	436944	0.930	2.92		
4.452	357597	265664	0.743	2.22		
4.546	610105	562073	0.921	3.79		
4.618	143247	130258	0.909	0.89		
4.727	34627	28696	0.829	0.21		
4.768	38705	34109	0.881	0.24		
4.814	277192	264316	0.954	1.72		
4.849	476923	458153	0.961	2.97		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.879	613481	454847	0.741	3.82	
4.960	74104	57100	0.771	0.46	
5.038	507891	458844	0.903	3.16	
5.100	100349	88837	0.885	0.62	
5.164	134684	119177	0.885	0.83	
5.213	98854	90627	0.917	0.61	
5.283	12070	11231	0.930	0.07	
5.310	24719	19674	0.796	0.15	
5.363	85050	75533	0.888	0.52	
5.408	146635	119693	0.816	0.91	
5.447	90264	80310	0.890	0.56	
5.510	230506	174139	0.755	1.43	
5.605	75587	61685	0.816	0.47	
5.716	16948	14359	0.847	0.10	
5.741	23073	20242	0.877	0.14	
5.793	169665	128009	0.754	1.05	
5.887	31657	16739	0.529	0.19	
6.025	153536	114654	0.747	0.95	
6.171	21729	13262	0.610	0.13	
6.302	46462	36756	0.791	0.28	
6.534	18985	15865	0.836	0.11	
6.803	15791	11632	0.737	0.09	
7.725	15675	13882	0.886	0.09	
8.279	20164	17879	0.887	0.12	
8.380	27215	14895	0.547	0.16	
8.573	2205636	1873304	0.849	13.73	
8.944	29668	17498	0.590	0.18	
9.464	14497	11336	0.782	0.09	
9.964	31291	22255	0.711	0.19	
	16057042	13818108		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	537600	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	520151	0.20000	0.21	0.00- 20.00	96.75	BA
3.826	3.827	-0.001	1494620	0.20000	0.21	0.00- 20.00	278.02	BA
3.929	3.929	0.000	633849	0.20000	0.21	0.00- 20.00	117.90	BA
3.994	3.995	-0.001	415519	0.20000	0.20	0.00- 20.00	77.29	BA
Average of Peak Amounts =					0.20800			

QC Flag Legend

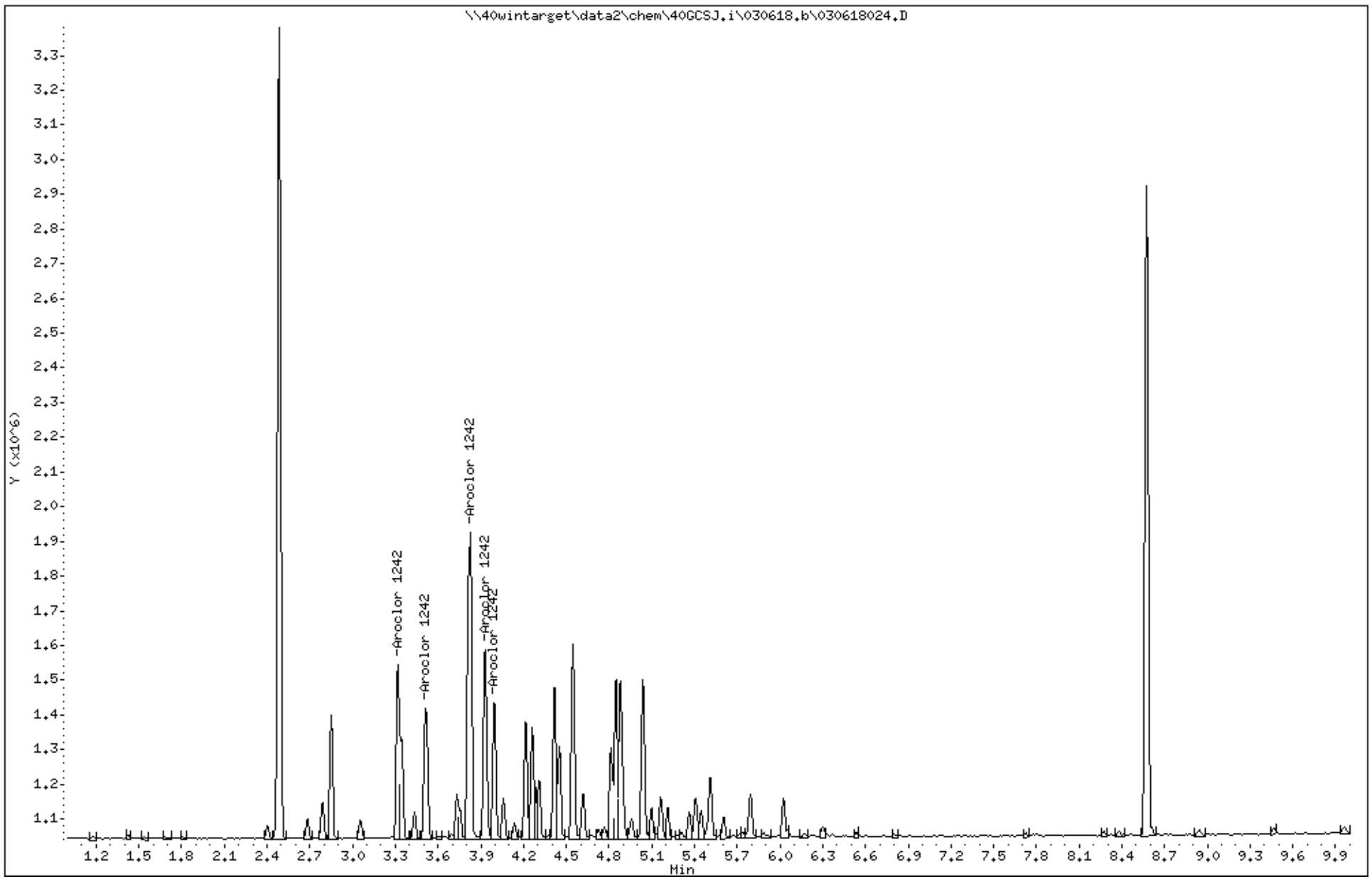
M - Compound response manually integrated.

Review Codes Legend

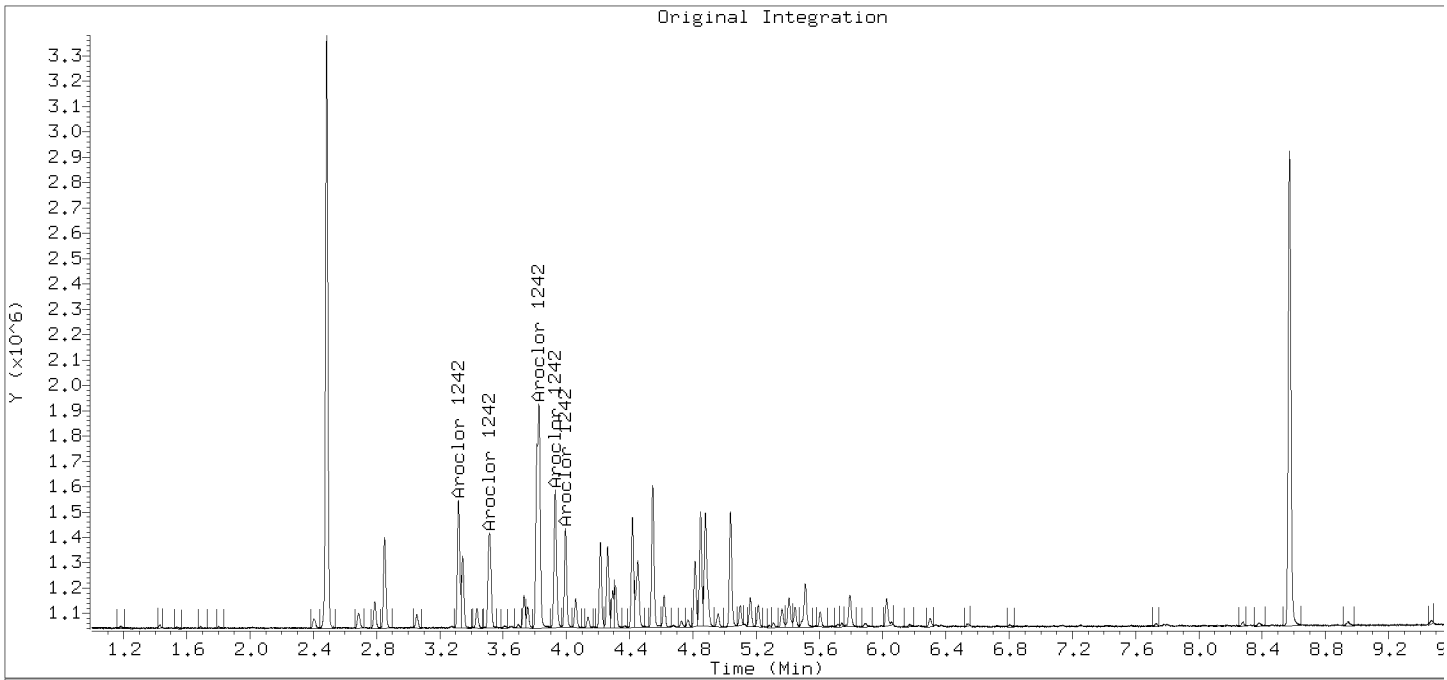
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

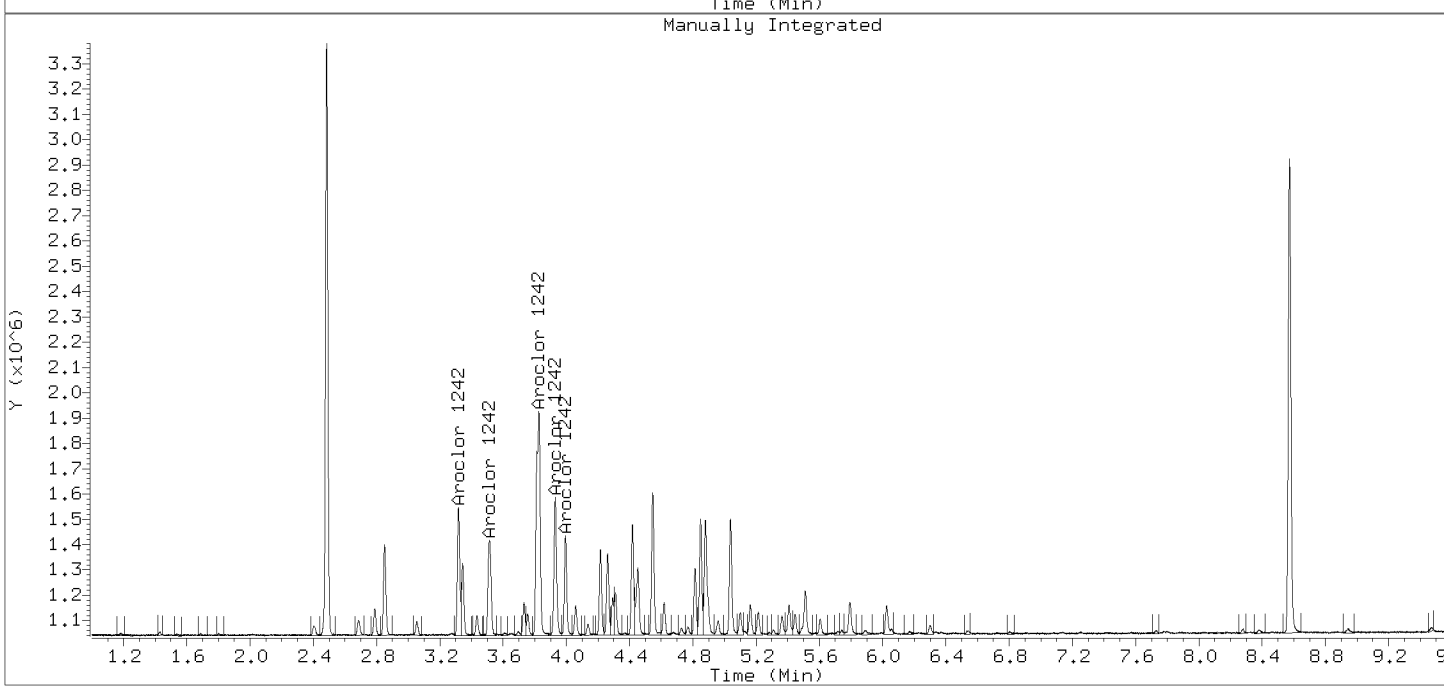
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618024.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL2B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA
Aroclor 1242	529987	537600	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	62004	50847	0.820	0.16		
1.431	37460	32055	0.856	0.09		
1.541	14316	12367	0.864	0.03		
1.687	15486	12743	0.823	0.04		
1.807	18746	14208	0.758	0.04		
2.011	43433	33553	0.773	0.11		
2.406	117538	91845	0.781	0.30		
2.485	5892252	5641423	0.957	15.80		
2.688	168721	139553	0.827	0.44		
2.789	263881	249457	0.945	0.68		
2.851	912957	864348	0.947	2.38		
3.032	23465	23649	1.008	0.06		
3.054	147736	128585	0.870	0.38		
3.278	22664	16866	0.744	0.05		
3.318	1252566	1174122	0.937	3.27	3 Aroclor 1242	BA
3.344	702584	667750	0.950	1.83		
3.435	195742	182887	0.934	0.51		
3.514	1253174	902840	0.720	3.27	3 Aroclor 1242	BA
3.610	20808	19442	0.934	0.05		
3.698	36264	35190	0.970	0.09		
3.733	310548	311302	1.002	0.81		
3.756	210733	195877	0.930	0.55		
3.827	3485663	2059745	0.591	9.11	3 Aroclor 1242	BA
3.929	1508994	1248466	0.827	3.94	3 Aroclor 1242	BA
3.995	1031466	974966	0.945	2.69	3 Aroclor 1242	BA
4.059	297827	269246	0.904	0.77		
4.137	124808	105679	0.847	0.32		
4.215	835282	795778	0.953	2.18		
4.262	800812	762657	0.952	2.09		
4.294	335573	342292	1.020	0.87		
4.310	418203	390877	0.935	1.09		
4.366	27246	20902	0.767	0.07		
4.418	1095729	1053734	0.962	2.86		
4.452	872734	643030	0.737	2.28		
4.546	1429253	1334739	0.934	3.73		
4.617	329513	299311	0.908	0.86		
4.679	25919	20313	0.784	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	75071	61492	0.819	0.19	
4.770	78410	75801	0.967	0.20	
4.814	666858	654940	0.982	1.74	
4.848	1139990	1092076	0.958	2.97	
4.879	1497562	1126464	0.752	3.91	
4.959	169941	133168	0.784	0.44	
5.038	1220947	1147297	0.940	3.19	
5.099	262922	203724	0.775	0.68	
5.163	307382	272531	0.887	0.80	
5.212	234571	204654	0.872	0.61	
5.286	17325	18279	1.055	0.04	
5.312	55833	44258	0.793	0.14	
5.365	200636	172920	0.862	0.52	
5.408	328555	284252	0.865	0.85	
5.447	222890	182949	0.821	0.58	
5.510	538895	423244	0.785	1.40	
5.605	171765	141640	0.825	0.44	
5.717	55818	31435	0.563	0.14	
5.742	42015	41544	0.989	0.10	
5.793	399108	317536	0.796	1.04	
5.891	59724	37531	0.628	0.15	
5.988	12622	14402	1.141	0.03	
6.025	317230	272827	0.860	0.82	
6.056	62897	52017	0.827	0.16	
6.173	35886	23021	0.641	0.09	
6.228	35394	17536	0.495	0.09	
6.300	107967	90981	0.843	0.28	
6.338	25191	21116	0.838	0.06	
6.373	22038	15834	0.718	0.05	
6.444	13051	11257	0.863	0.03	
6.540	47204	32635	0.691	0.12	
6.803	23591	20139	0.854	0.06	
7.005	15270	10968	0.718	0.03	
7.133	35322	22100	0.626	0.09	
7.250	13054	10560	0.809	0.03	
7.727	20164	18616	0.923	0.05	
7.782	26691	22023	0.825	0.06	
7.800	17830	16488	0.925	0.04	
8.277	43520	38062	0.875	0.11	
8.377	40259	27272	0.677	0.10	
8.573	5121279	4417666	0.863	13.38	
8.941	41704	28161	0.675	0.10	
9.469	46040	28501	0.619	0.12	
9.966	42365	27909	0.659	0.11	
	38254887	33030470		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1252566	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1253174	0.50000	0.50	0.00- 20.00	100.05	BA
3.827	3.827	0.000	3485663	0.50000	0.49	0.00- 20.00	278.28	BA
3.929	3.929	0.000	1508993	0.50000	0.50	0.00- 20.00	120.47	BA
3.995	3.995	0.000	1031465	0.50000	0.50	0.00- 20.00	82.35	BA
Average of Peak Amounts =					0.49600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D

Date : 06-MAR-2018 14:16

Client ID: 1242-CAL3B

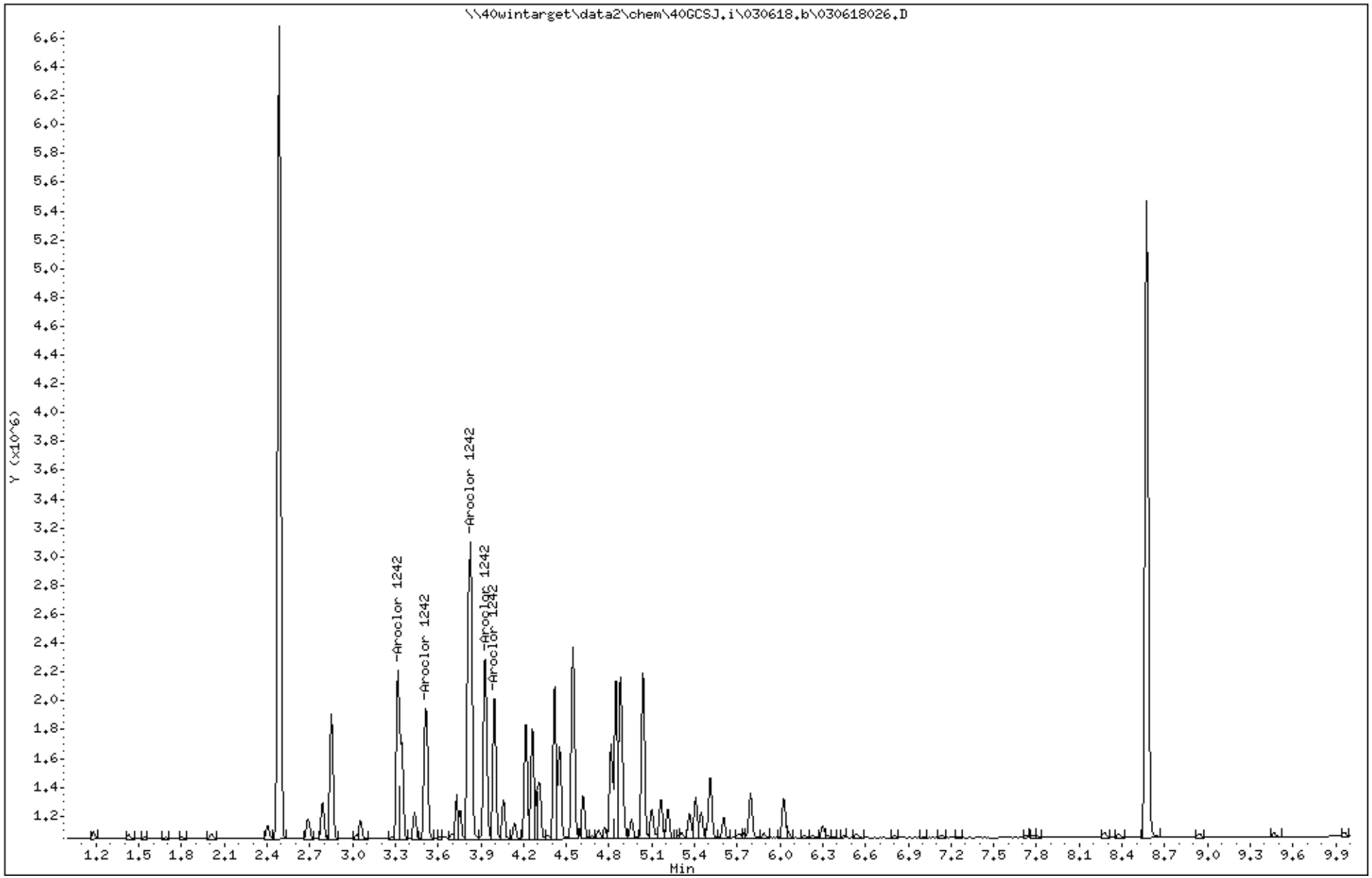
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

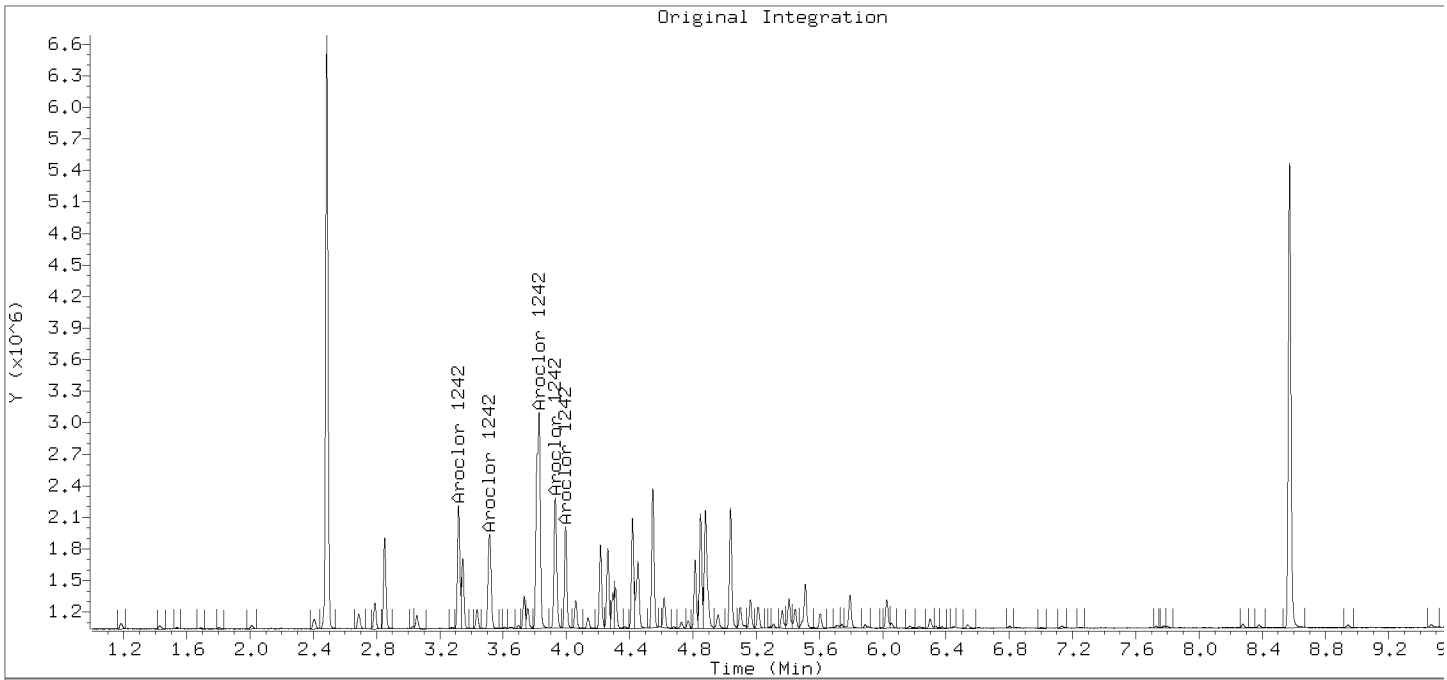
Operator: BLM

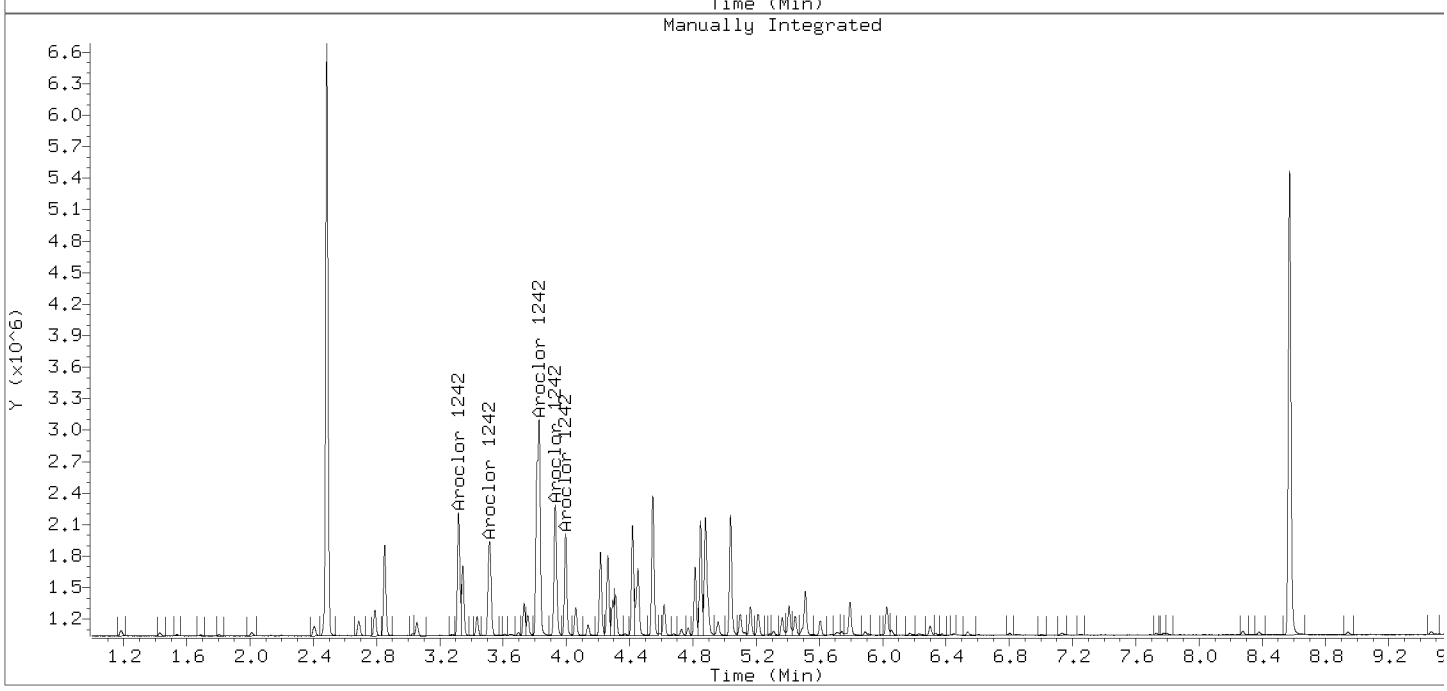
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618026.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL3B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA
Aroclor 1242	1246512	1252566	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	10080	10187	1.011	0.01		
1.429	71364	59862	0.839	0.11		
1.538	29625	26596	0.898	0.04		
1.688	11915	10660	0.895	0.01		
1.804	23856	18863	0.791	0.03		
2.007	10897	7828	0.718	0.01		
2.404	181872	142910	0.786	0.29		
2.485	11627123	11366999	0.978	18.98		
2.688	264051	219269	0.830	0.42		
2.789	434211	416960	0.960	0.69		
2.851	1404465	1315051	0.936	2.24		
3.055	207612	200354	0.965	0.33		
3.277	30044	24512	0.816	0.04		
3.318	1896850	1767208	0.932	3.03	3 Aroclor 1242	BA
3.345	1097148	1042916	0.951	1.75		
3.435	308786	278730	0.903	0.49		
3.514	1913733	1396800	0.730	3.05	3 Aroclor 1242	BA
3.611	36879	32861	0.891	0.05		
3.650	32275	21129	0.655	0.05		
3.698	52994	51432	0.971	0.08		
3.732	483352	488922	1.012	0.77		
3.757	311671	302713	0.971	0.49		
3.827	5388263	3191450	0.592	8.61	3 Aroclor 1242	BA
3.930	2300081	1902191	0.827	3.67	3 Aroclor 1242	BA
3.995	1542626	1468087	0.952	2.46	3 Aroclor 1242	BA
4.058	448445	418306	0.933	0.71		
4.137	178413	160377	0.899	0.28		
4.216	1273682	1194446	0.938	2.03		
4.262	1227232	1169872	0.953	1.96		
4.294	525419	547237	1.042	0.83		
4.311	636195	609901	0.959	1.01		
4.372	36108	28635	0.793	0.05		
4.417	1692750	1588767	0.939	2.70		
4.453	1331839	978159	0.734	2.12		
4.546	2184137	1978129	0.906	3.49		
4.617	508881	469073	0.922	0.81		
4.680	35054	29148	0.832	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	105197	91550	0.870	0.16	
4.769	122661	117412	0.957	0.19	
4.814	1044933	1018344	0.975	1.66	
4.849	1747424	1640600	0.939	2.79	
4.879	2259358	1670288	0.739	3.61	
4.958	257618	206246	0.801	0.41	
5.037	1890389	1718139	0.909	3.02	
5.100	401551	318982	0.794	0.64	
5.163	472012	441234	0.935	0.75	
5.213	355660	314958	0.886	0.56	
5.286	29890	27564	0.922	0.04	
5.311	83705	68170	0.814	0.13	
5.364	301164	261411	0.868	0.48	
5.407	509309	451496	0.886	0.81	
5.445	334594	277269	0.829	0.53	
5.509	841921	651295	0.774	1.34	
5.605	255376	218910	0.857	0.40	
5.678	22556	17148	0.760	0.03	
5.717	46249	39239	0.848	0.07	
5.741	70982	58982	0.831	0.11	
5.793	601893	487520	0.810	0.96	
5.888	90739	56064	0.618	0.14	
5.996	18848	17967	0.953	0.03	
6.025	494570	434696	0.879	0.79	
6.055	94751	75807	0.800	0.15	
6.167	43225	29320	0.678	0.06	
6.227	36179	22391	0.619	0.05	
6.298	159553	135640	0.850	0.25	
6.334	38685	28936	0.748	0.06	
6.377	33304	20685	0.621	0.05	
6.537	60223	50647	0.841	0.09	
6.804	34153	30829	0.903	0.05	
7.006	17283	12447	0.720	0.02	
7.126	26579	14899	0.561	0.04	
7.251	12264	12902	1.052	0.01	
7.726	42507	35890	0.844	0.06	
7.802	24391	23419	0.960	0.03	
8.277	86483	69397	0.802	0.13	
8.377	21031	14261	0.678	0.03	
8.573	9665476	8353148	0.864	15.44	
8.947	18281	11560	0.632	0.02	
9.088	11569	10817	0.935	0.01	
9.469	15262	13186	0.864	0.02	
9.963	30595	19946	0.652	0.04	
	62580323	54528151		100.000	

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1896850	0.80000	0.75	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1913733	0.80000	0.76	0.00- 20.00	100.89	BA
3.827	3.827	0.000	5388263	0.80000	0.76	0.00- 20.00	284.06	BA
3.930	3.929	0.001	2300081	0.80000	0.76	0.00- 20.00	121.26	BA
3.995	3.995	0.000	1542626	0.80000	0.75	0.00- 20.00	81.33	BA
Average of Peak Amounts =					0.75600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

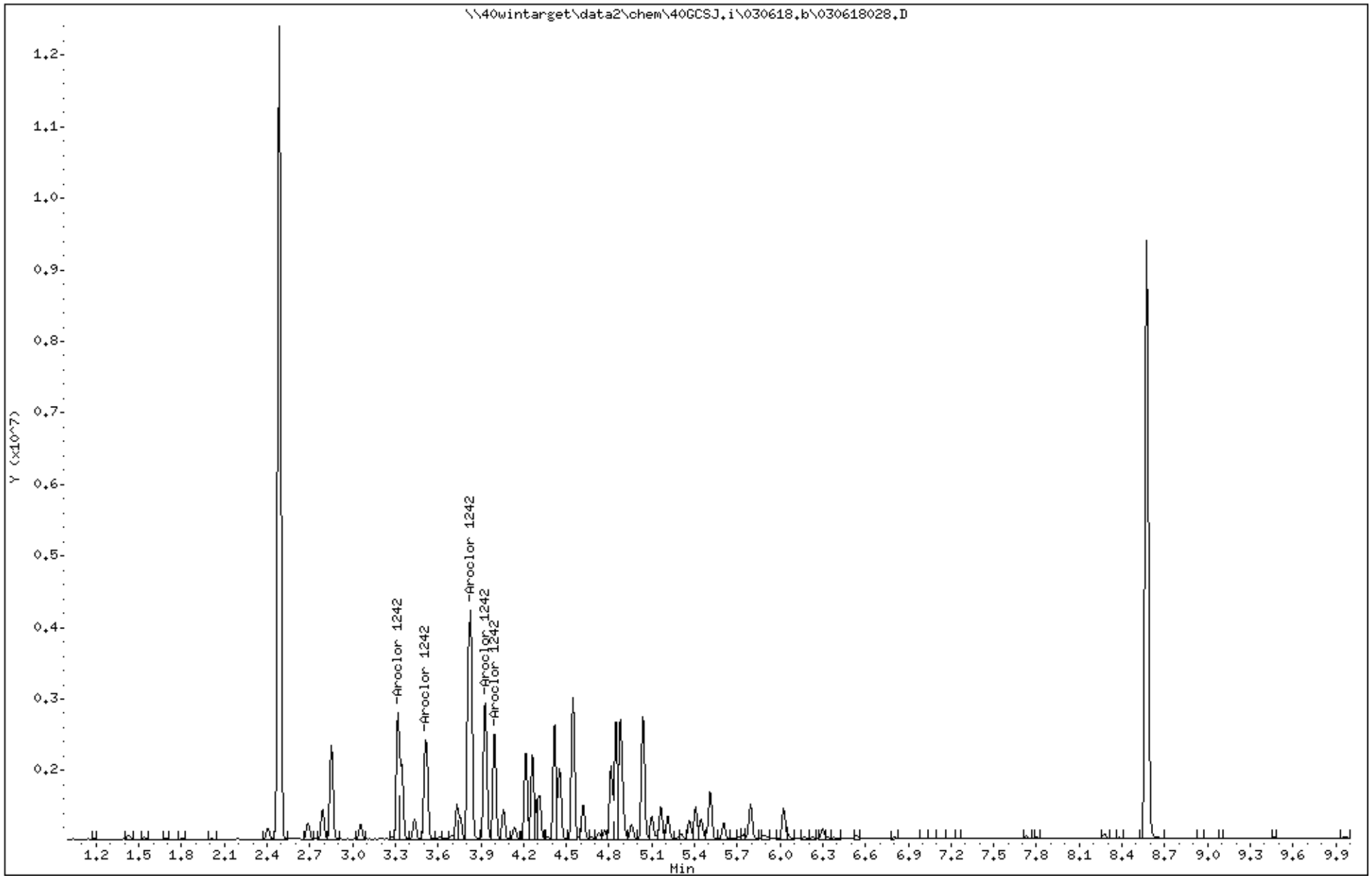
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

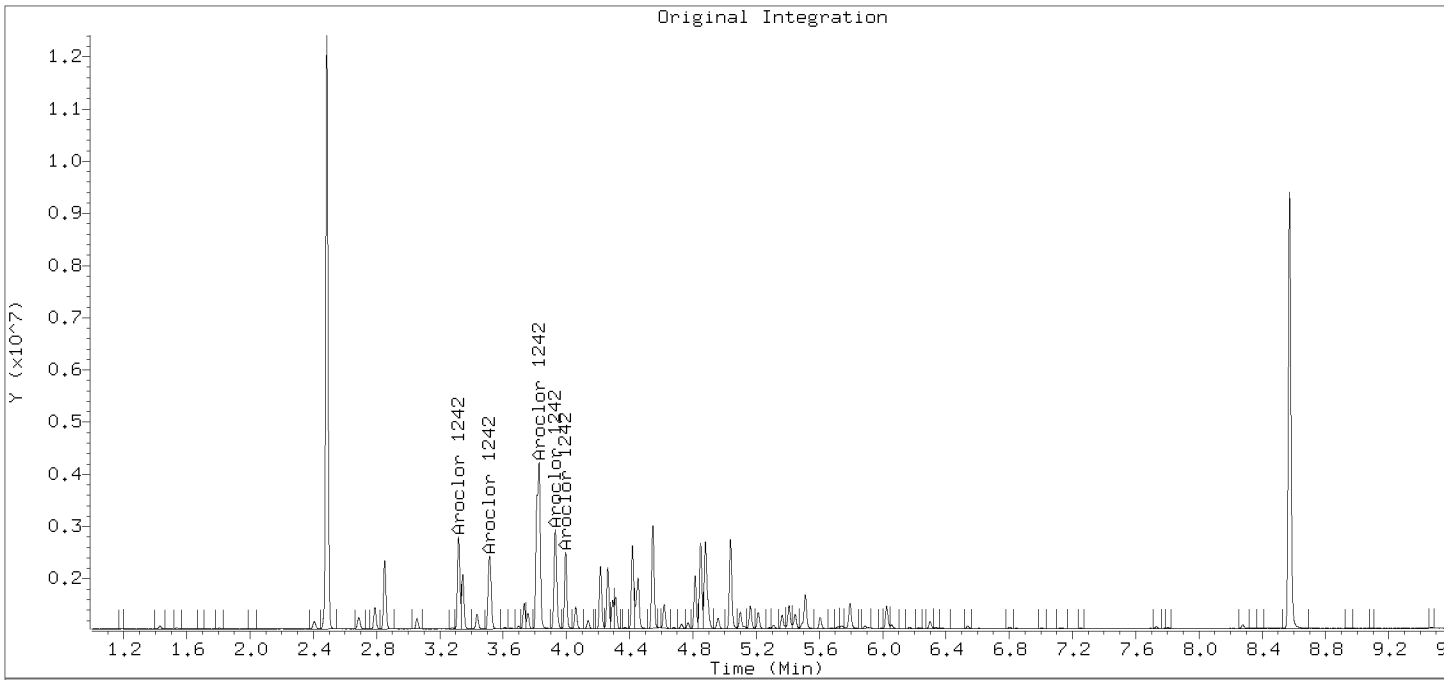
Operator: BLM

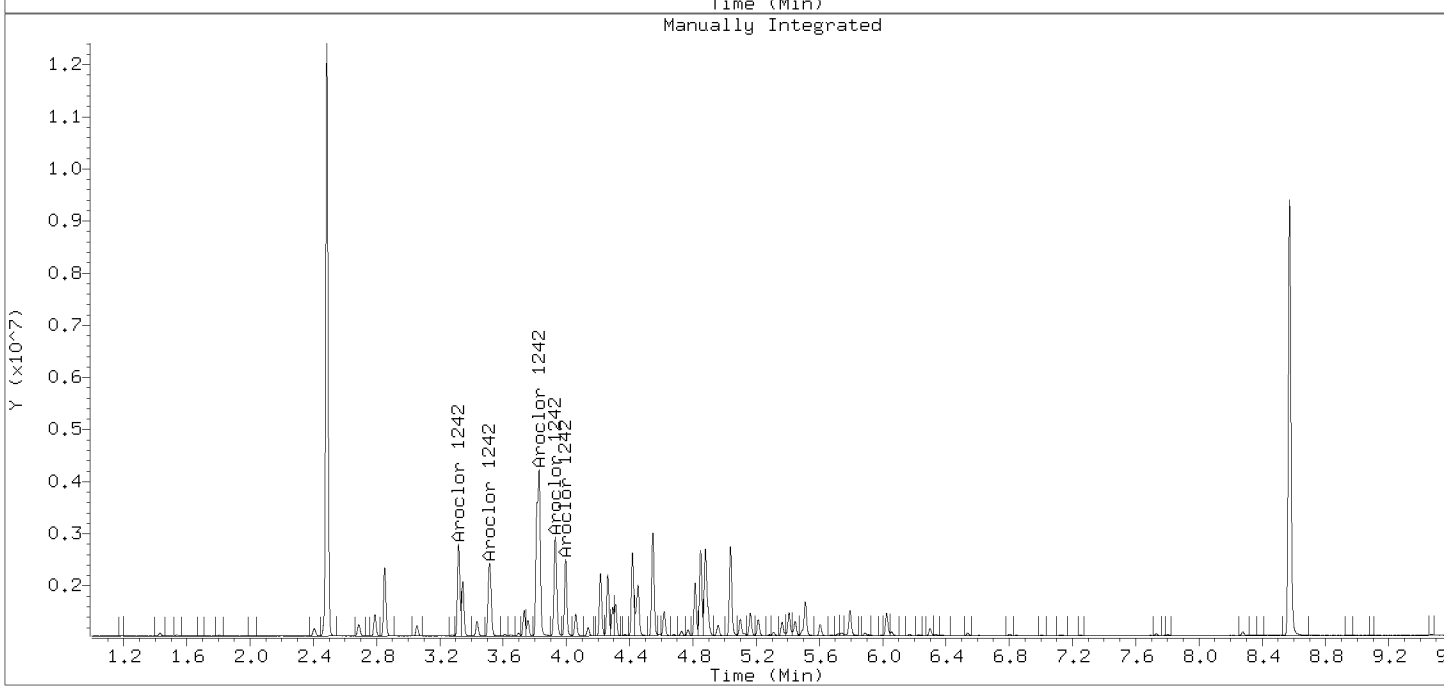
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618028.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL4B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA
Aroclor 1242	1890576	1896850	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	13142	9158	0.697	0.01		
1.429	100388	88167	0.878	0.12		
1.538	43436	37040	0.853	0.05		
1.802	27170	23817	0.877	0.03		
2.200	13193	7765	0.589	0.01		
2.404	223179	177740	0.796	0.26		
2.485	17637176	17309158	0.981	21.53		
2.687	332628	271512	0.816	0.39		
2.788	576258	556266	0.965	0.69		
2.850	1731132	1639872	0.947	2.07		
3.055	271375	257132	0.948	0.32		
3.199	9596	8183	0.853	0.01		
3.278	40145	29795	0.742	0.04		
3.318	2329240	2178022	0.935	2.79	3 Aroclor 1242	BA
3.344	1365925	1274431	0.933	1.63		
3.434	376796	349333	0.927	0.45		
3.514	2361399	1699901	0.720	2.82	3 Aroclor 1242	BA
3.611	53162	49737	0.936	0.06		
3.648	38548	26960	0.699	0.04		
3.697	65654	64327	0.980	0.07		
3.732	603958	618832	1.025	0.72		
3.756	391796	382124	0.975	0.46		
3.828	6706645	3996192	0.596	8.03	3 Aroclor 1242	BA
3.929	2857802	2355014	0.824	3.42	3 Aroclor 1242	BA
3.994	1922508	1833827	0.954	2.30	3 Aroclor 1242	BA
4.059	555199	530529	0.956	0.66		
4.136	222505	199818	0.898	0.26		
4.215	1575639	1501683	0.953	1.88		
4.261	1524934	1467406	0.962	1.82		
4.293	649073	667869	1.029	0.77		
4.311	810435	768258	0.948	0.97		
4.371	43433	37094	0.854	0.05		
4.417	2107983	1937856	0.919	2.52		
4.452	1647097	1208682	0.734	1.97		
4.546	2757523	2530813	0.918	3.30		
4.617	639793	601712	0.940	0.76		
4.681	44151	33585	0.761	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	132122	115497	0.874	0.15	
4.768	152881	144940	0.948	0.18	
4.814	1304656	1285158	0.985	1.56	
4.848	2176719	2065105	0.949	2.60	
4.878	2810648	2043331	0.727	3.36	
4.958	313624	254506	0.811	0.37	
5.038	2364110	2159153	0.913	2.83	
5.099	500540	389011	0.777	0.59	
5.163	588453	534323	0.908	0.70	
5.213	446583	410279	0.919	0.53	
5.283	33027	31901	0.966	0.03	
5.308	101588	84023	0.827	0.12	
5.363	379663	323299	0.852	0.45	
5.407	645531	557984	0.864	0.77	
5.447	411135	369925	0.900	0.49	
5.510	1059127	856260	0.808	1.26	
5.604	309697	267220	0.863	0.37	
5.676	26819	20072	0.748	0.03	
5.717	59263	49321	0.832	0.07	
5.742	85889	77700	0.905	0.10	
5.763	25900	36740	1.419	0.03	
5.792	730478	608087	0.832	0.87	
5.888	108449	69349	0.639	0.12	
5.993	23548	21446	0.911	0.02	
6.024	621770	555127	0.893	0.74	
6.056	116744	93958	0.805	0.13	
6.169	44881	36731	0.818	0.05	
6.227	46866	28002	0.597	0.05	
6.299	198407	171669	0.865	0.23	
6.334	48913	37408	0.765	0.05	
6.372	34798	26791	0.770	0.04	
6.535	86352	62639	0.725	0.10	
6.608	17596	12479	0.709	0.02	
6.719	9324	8755	0.939	0.01	
6.803	41284	37893	0.918	0.04	
7.004	14125	13843	0.980	0.01	
7.122	30632	19166	0.626	0.03	
7.251	21667	14526	0.670	0.02	
7.694	10065	10273	1.021	0.01	
7.729	57227	51664	0.903	0.06	
7.800	40976	33029	0.806	0.04	
8.276	125210	109793	0.877	0.14	
8.377	17875	15033	0.841	0.02	
8.572	14386052	12725920	0.885	17.23	
9.089	27631	16553	0.599	0.03	
9.466	10052	7309	0.727	0.01	
9.961	14595	11352	0.778	0.01	
	83483509	73604153		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	2329239	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	2361398	1.00000	0.94	0.00- 20.00	101.38	BA
3.827	3.827	0.000	6706645	1.00000	0.94	0.00- 20.00	287.93	BA
3.929	3.929	0.000	2857801	1.00000	0.94	0.00- 20.00	122.69	BA
3.994	3.995	-0.001	1922507	1.00000	0.94	0.00- 20.00	82.54	BA
Average of Peak Amounts =					0.93600			

QC Flag Legend

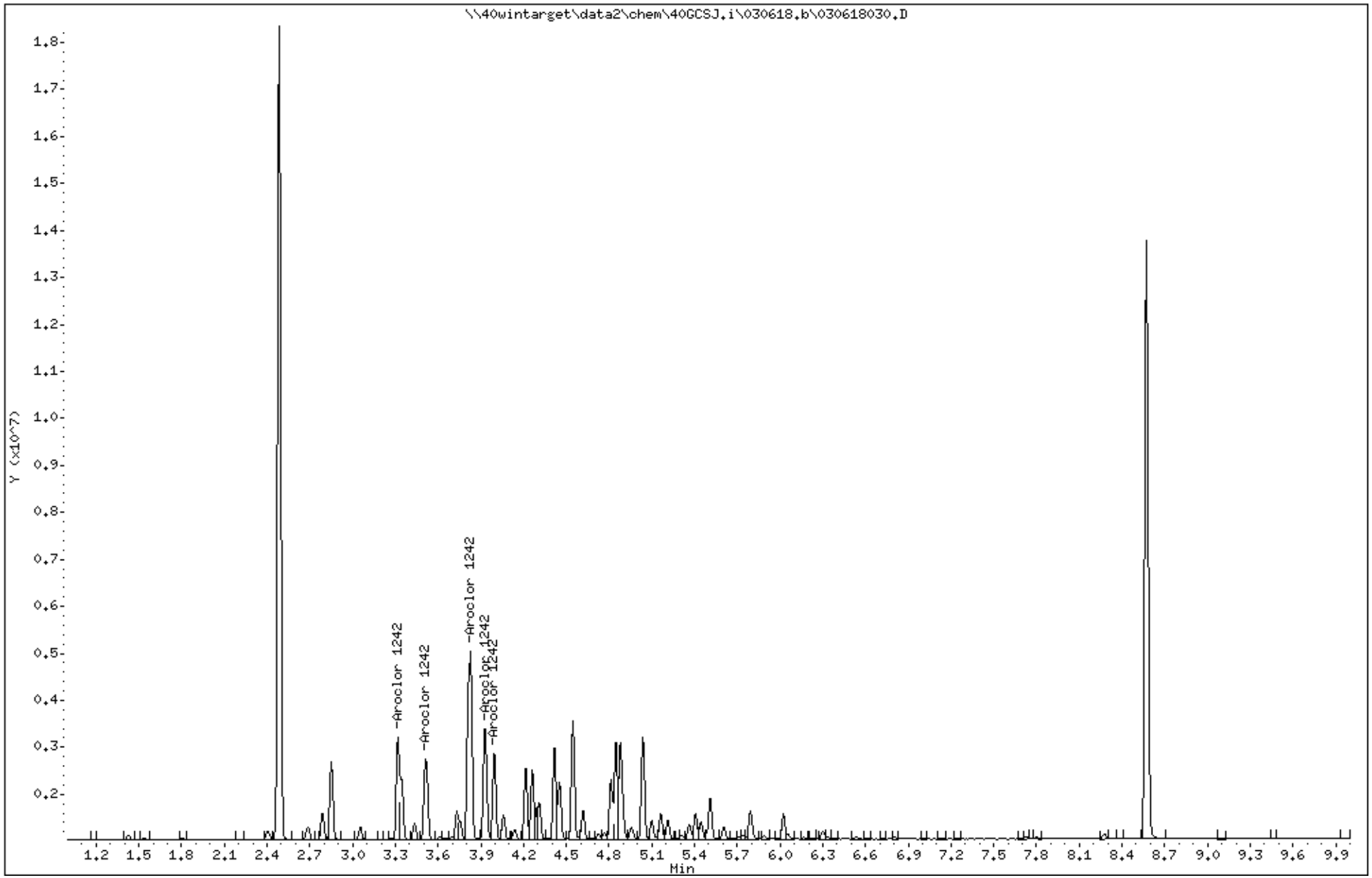
M - Compound response manually integrated.

Review Codes Legend

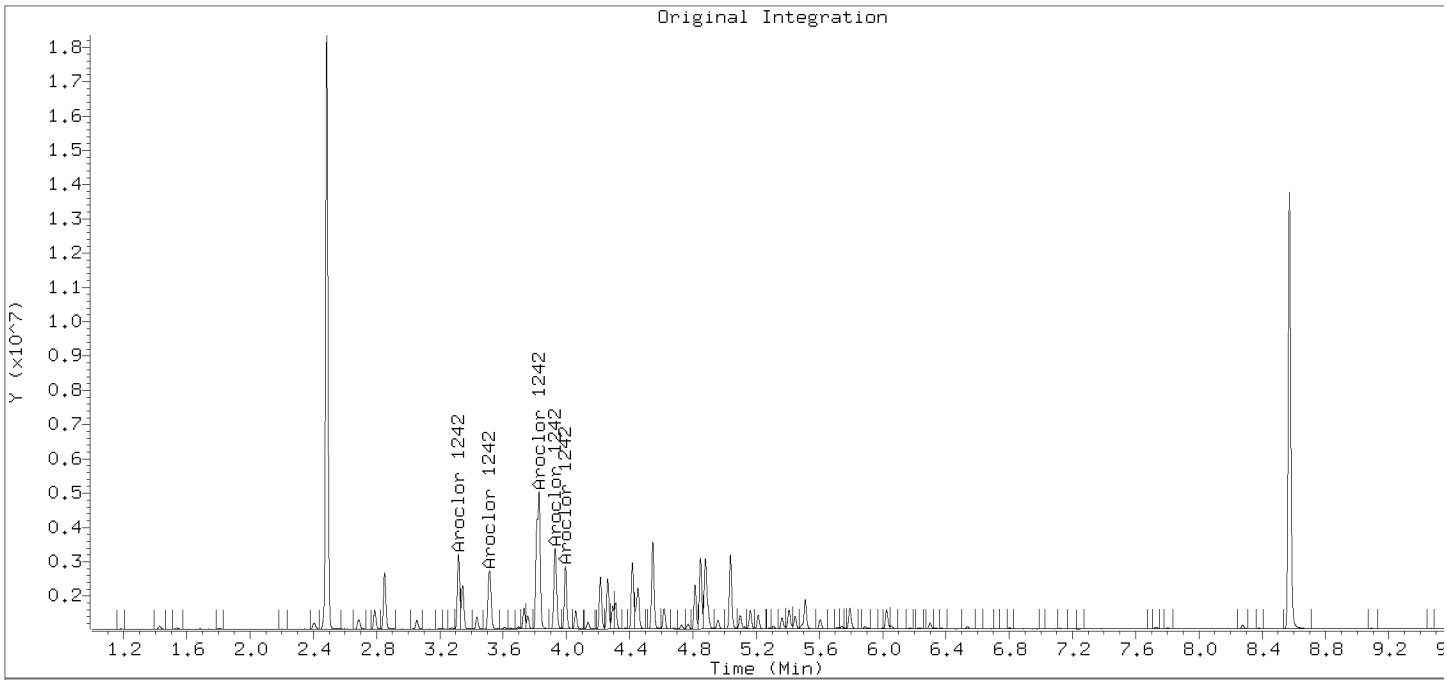
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

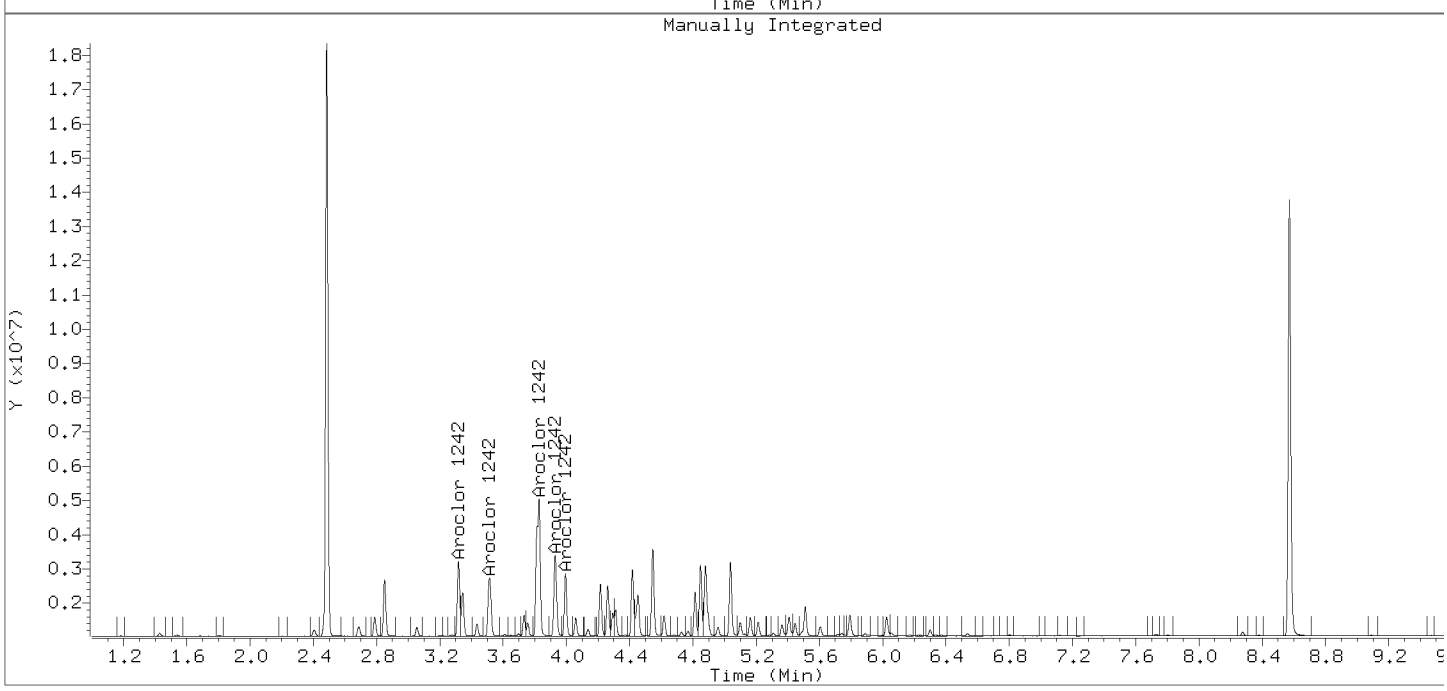
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618030.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CAL5B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA
Aroclor 1242	2319478	2329239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	14305	12931	0.904	0.15		
2.484	1247615	1209145	0.969	13.39		
2.788	24449	24176	0.989	0.25		
2.851	42332	37681	0.890	0.44		
3.054	17847	15627	0.876	0.18		
3.319	154829	149314	0.964	1.63		
3.345	69818	62303	0.892	0.73		
3.434	21759	16384	0.753	0.22		
3.514	129337	91632	0.708	1.36		
3.732	41192	29456	0.715	0.43		
3.815	249582	260696	1.045	2.62		
3.827	243092	265599	1.093	2.56		
3.930	196862	149009	0.757	2.07		
3.994	130100	120464	0.926	1.37		
4.060	81123	71377	0.880	0.85		
4.135	37994	31819	0.837	0.40		
4.215	323817	309946	0.957	3.41		
4.261	252265	240506	0.953	2.65	6 Aroclor 1248	BA
4.293	108819	107853	0.991	1.14		
4.310	114993	111028	0.966	1.21		
4.418	386700	369661	0.956	4.07		
4.452	202370	173038	0.855	2.13		
4.546	444141	405258	0.912	4.67	6 Aroclor 1248	BA
4.618	103930	97669	0.940	1.09		
4.723	15775	14602	0.926	0.16		
4.768	26846	24690	0.920	0.28		
4.814	217596	209298	0.962	2.29	6 Aroclor 1248	BA
4.848	417341	413186	0.990	4.39		
4.879	538491	358710	0.666	5.67	6 Aroclor 1248	BA
4.956	69249	57131	0.825	0.72		
5.038	375736	339065	0.902	3.95	6 Aroclor 1248	BA
5.100	148135	110594	0.747	1.56		
5.163	166243	148041	0.891	1.75		
5.212	121348	109604	0.903	1.27		
5.313	32609	23414	0.718	0.34		
5.363	107678	94673	0.879	1.13		
5.408	174507	147282	0.844	1.83		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.447	107960	95389	0.884	1.13	
5.510	292671	230307	0.787	3.08	
5.606	86504	77757	0.899	0.91	
5.677	14791	13016	0.880	0.15	
5.715	25257	18019	0.713	0.26	
5.741	25694	22207	0.864	0.27	
5.793	207991	150871	0.725	2.19	
5.891	26284	18285	0.696	0.27	
6.024	187756	132978	0.708	1.97	
6.173	26666	15778	0.592	0.28	
6.301	55473	43247	0.780	0.58	
6.372	11356	9835	0.866	0.11	
6.509	11520	12779	1.109	0.12	
6.535	21081	15879	0.753	0.22	
6.720	14478	10691	0.738	0.15	
6.801	13412	10673	0.796	0.14	
7.001	12573	13352	1.062	0.13	
7.250	10465	7692	0.735	0.11	
7.384	10819	8597	0.795	0.11	
7.445	14986	9827	0.656	0.15	
8.276	19065	13591	0.713	0.20	
8.376	10132	9028	0.891	0.10	
8.572	1203814	1072809	0.891	12.67	
8.944	15824	11638	0.735	0.16	
9.963	17710	12713	0.718	0.18	
	9495108	8449820		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	252264	0.10000	0.11	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	444140	0.10000	0.11	0.00- 20.00	176.06	BA
4.814	4.812	0.002	217595	0.10000	0.11	0.00- 20.00	86.26	BA
4.879	4.879	0.000	538491	0.10000	0.11	0.00- 20.00	213.46	BA
5.037	5.038	-0.001	375736	0.10000	0.10	0.00- 20.00	148.95	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

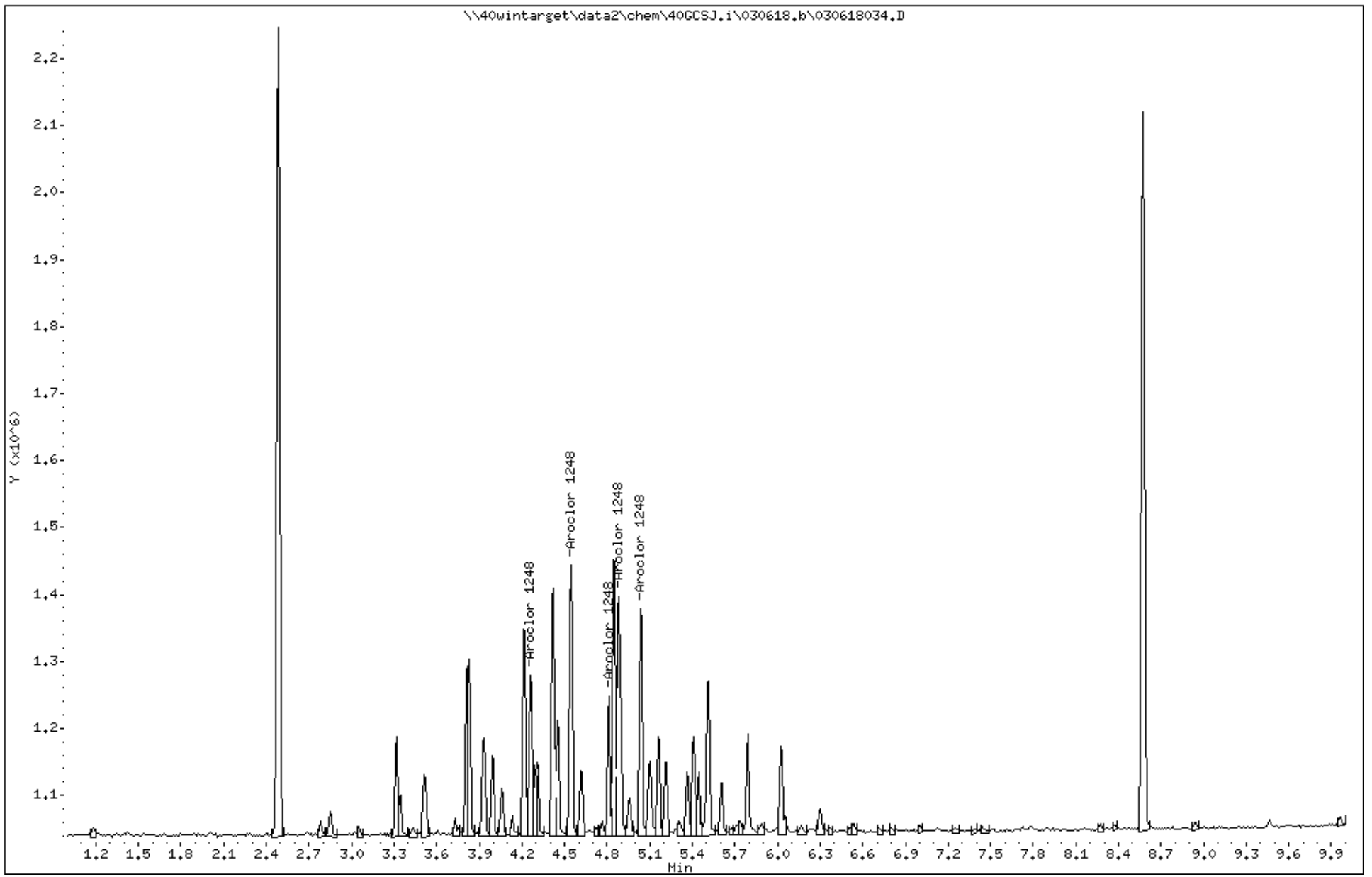
M - Compound response manually integrated.

Review Codes Legend

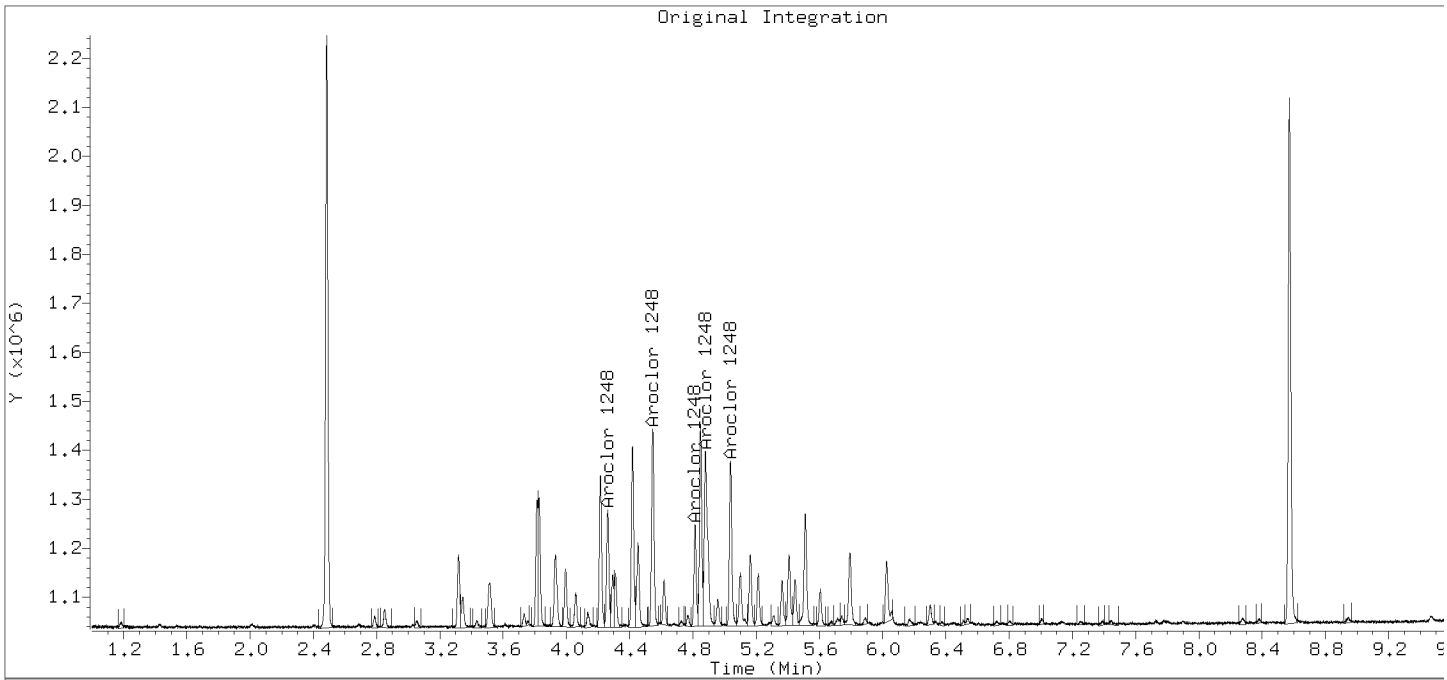
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

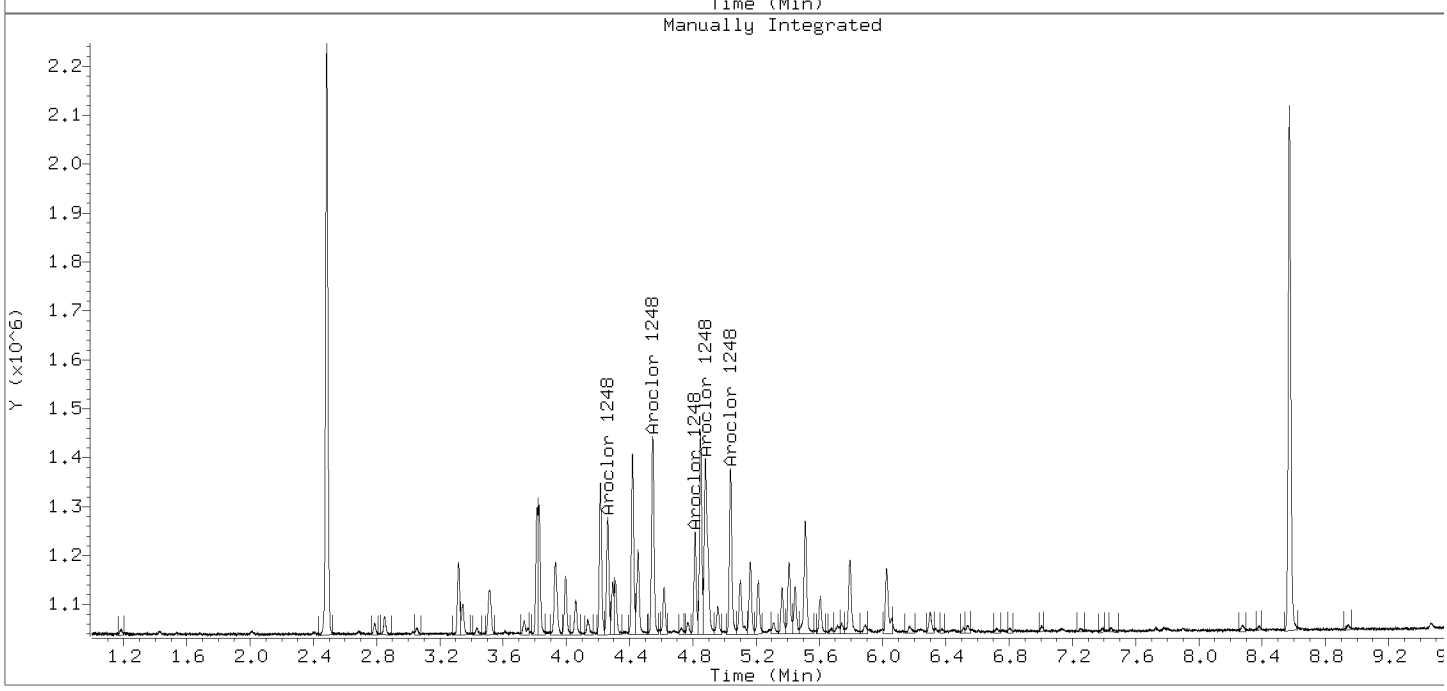
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618034.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL1D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA
Aroclor 1248	249611	252264	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	14828	12598	0.850	0.08		
1.430	17405	15532	0.892	0.09		
1.539	10978	9178	0.836	0.05		
2.484	2410492	2310272	0.958	13.49		
2.687	17007	12868	0.757	0.09		
2.788	48103	47022	0.978	0.26		
2.850	76500	74948	0.980	0.41		
3.054	25960	22998	0.886	0.14		
3.317	298832	283610	0.949	1.62		
3.344	124976	117615	0.941	0.68		
3.435	29128	26666	0.915	0.15		
3.515	253342	181031	0.715	1.37		
3.731	81061	56758	0.700	0.44		
3.815	462892	504630	1.090	2.51		
3.826	513591	533097	1.038	2.79		
3.930	374207	289234	0.773	2.03		
3.994	244564	239466	0.979	1.33		
4.058	144578	133216	0.921	0.78		
4.138	61375	54340	0.885	0.33		
4.215	629384	607757	0.966	3.42		
4.262	495628	473751	0.956	2.69	6 Aroclor 1248	BA
4.292	207266	214773	1.036	1.12		
4.310	218472	204865	0.938	1.18		
4.418	768532	734950	0.956	4.18		
4.453	378840	319389	0.843	2.06		
4.546	893337	815571	0.913	4.86	6 Aroclor 1248	BA
4.619	201356	185248	0.920	1.09		
4.680	15861	10971	0.692	0.08		
4.727	29910	23588	0.789	0.16		
4.768	49430	45109	0.913	0.26		
4.813	420194	408578	0.972	2.28	6 Aroclor 1248	BA
4.849	831772	785146	0.944	4.52		
4.879	1060573	728567	0.687	5.77	6 Aroclor 1248	BA
4.957	136900	106494	0.778	0.74		
5.037	754040	696546	0.924	4.10	6 Aroclor 1248	BA
5.100	272713	215866	0.792	1.48		
5.163	325949	288755	0.886	1.77		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.213	228553	210074	0.919	1.24	
5.284	17412	16457	0.945	0.09	
5.311	55636	44138	0.793	0.30	
5.365	206530	172716	0.836	1.12	
5.407	337971	295228	0.874	1.83	
5.446	206711	185231	0.896	1.12	
5.511	560479	467877	0.835	3.05	
5.606	165540	145657	0.880	0.90	
5.677	22681	19784	0.872	0.12	
5.717	37903	28891	0.762	0.20	
5.740	60086	37215	0.619	0.32	
5.793	371069	303747	0.819	2.02	
5.889	58211	32981	0.567	0.31	
5.992	13175	13785	1.046	0.07	
6.025	314967	267323	0.849	1.71	
6.057	68435	55542	0.812	0.37	
6.170	38384	24308	0.633	0.20	
6.299	99670	82914	0.832	0.54	
6.332	23115	17884	0.774	0.12	
6.374	20547	14764	0.719	0.11	
6.512	20781	18606	0.895	0.11	
6.536	45734	28211	0.617	0.24	
6.605	13055	7483	0.573	0.07	
6.719	20846	19042	0.913	0.11	
6.807	17328	17245	0.995	0.09	
7.005	39579	28763	0.727	0.21	
7.128	13661	9160	0.671	0.07	
7.254	16230	12319	0.759	0.08	
7.391	15959	13660	0.856	0.08	
7.448	19126	12843	0.671	0.10	
7.727	14015	12218	0.872	0.07	
7.904	9772	9677	0.990	0.05	
8.273	24829	20353	0.820	0.13	
8.382	9612	9180	0.955	0.05	
8.572	2222844	1814975	0.817	12.10	
8.942	19336	12310	0.637	0.10	
9.470	19278	15347	0.796	0.10	
9.966	19855	14911	0.751	0.10	
	18368893	16303822		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	495628	0.20000	0.21	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	893336	0.20000	0.22	0.00- 20.00	180.24	BA
4.813	4.812	0.001	420194	0.20000	0.21	0.00- 20.00	84.78	BA
4.878	4.879	-0.001	1060573	0.20000	0.21	0.00- 20.00	213.99	BA
5.036	5.038	-0.002	754040	0.20000	0.21	0.00- 20.00	152.14	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

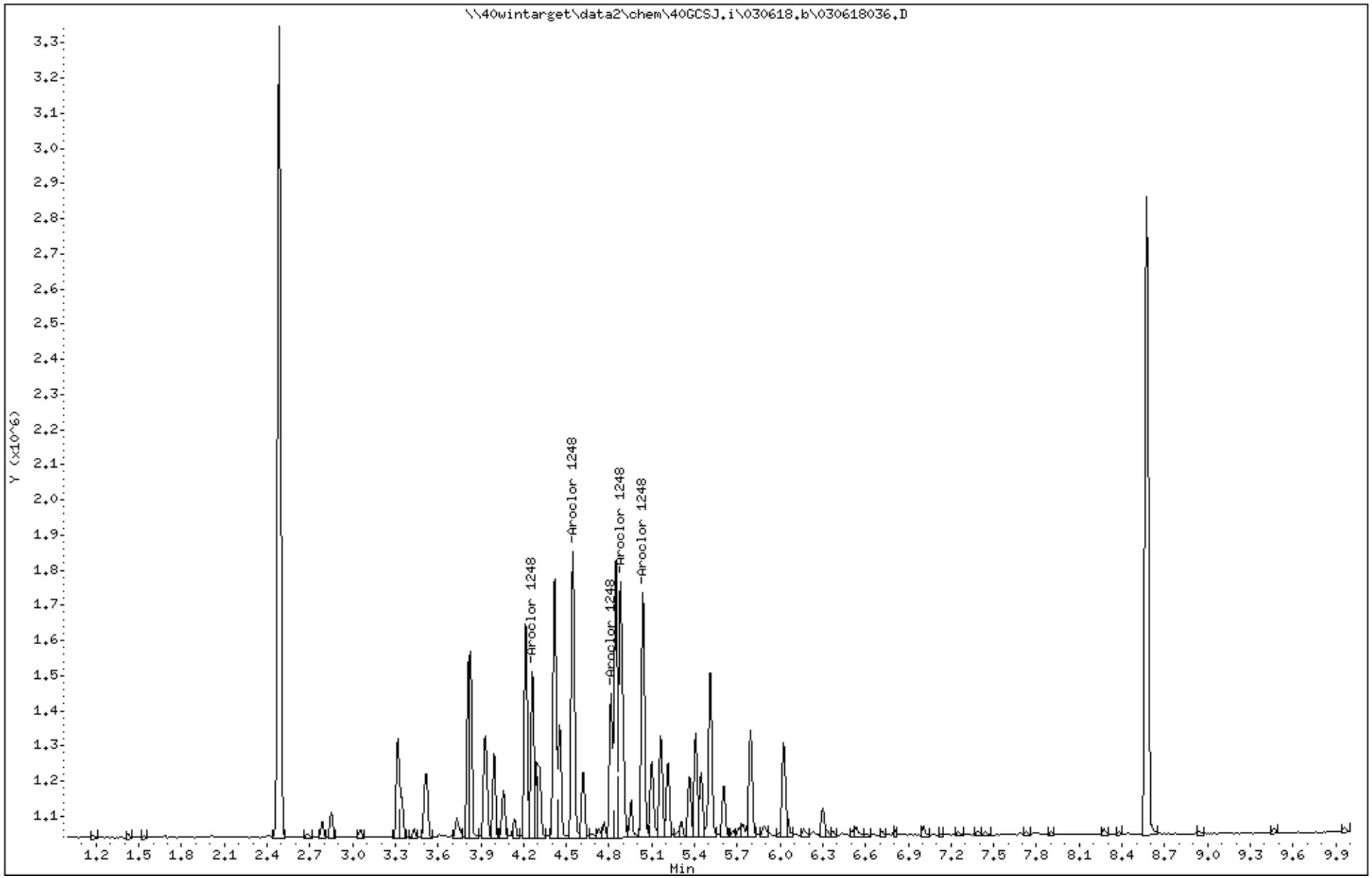
M - Compound response manually integrated.

Review Codes Legend

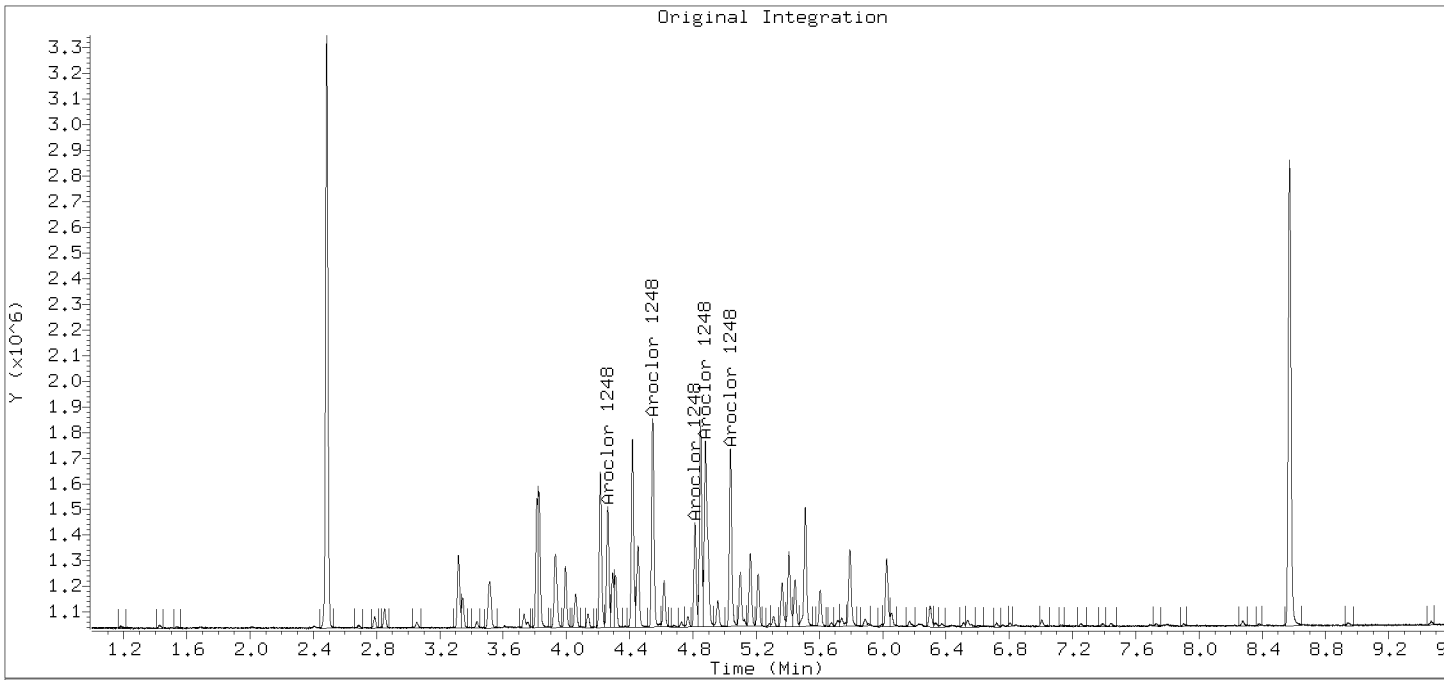
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

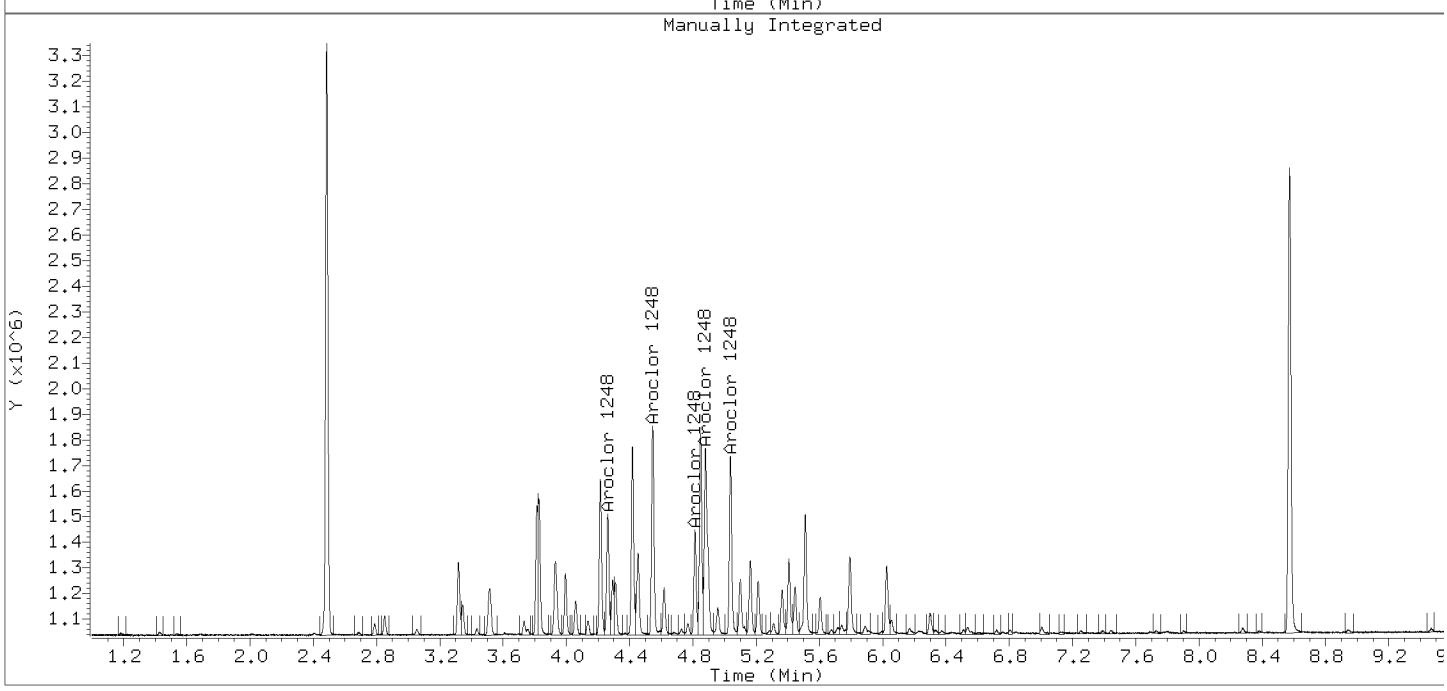
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618036.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL2D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA
Aroclor 1248	491137	495628	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	52291	42958	0.822	0.11		
1.429	43894	31713	0.722	0.09		
1.534	22011	15352	0.697	0.05		
1.684	14849	11921	0.803	0.03		
2.012	36627	27328	0.746	0.08		
2.407	26546	19456	0.733	0.06		
2.484	6017126	5772700	0.959	14.16		
2.690	32471	25048	0.771	0.07		
2.787	113251	108295	0.956	0.25		
2.852	188762	171319	0.908	0.42		
3.029	16871	18416	1.092	0.03		
3.055	67710	56713	0.838	0.15		
3.317	703226	686995	0.977	1.60		
3.344	286830	276759	0.965	0.65		
3.435	67890	58817	0.866	0.15		
3.516	596412	432178	0.725	1.35		
3.611	19167	18609	0.971	0.04		
3.647	15129	9511	0.629	0.03		
3.732	135042	128551	0.952	0.30		
3.756	64325	57019	0.886	0.14		
3.813	1062140	1201939	1.132	2.41		
3.826	1285788	1271741	0.989	2.92		
3.930	900477	692801	0.769	2.04		
3.994	605988	570061	0.941	1.37		
4.058	351201	319673	0.910	0.79		
4.137	149029	131722	0.884	0.33		
4.215	1475927	1383740	0.938	3.35		
4.261	1173198	1126600	0.960	2.66	6 Aroclor 1248	BA
4.293	494927	502286	1.015	1.12		
4.310	515717	488015	0.946	1.17		
4.417	1799324	1700045	0.945	4.09		
4.452	888654	777134	0.875	2.02		
4.546	2052388	1889189	0.920	4.66	6 Aroclor 1248	BA
4.588	34383	33944	0.987	0.07		
4.618	476094	438433	0.921	1.08		
4.681	29129	21872	0.751	0.06		
4.727	64061	51195	0.799	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	110931	104719	0.944	0.25	
4.813	1017191	989120	0.972	2.31	6 Aroclor 1248
4.848	1949790	1821792	0.934	4.43	
4.879	2527488	1652488	0.654	5.75	6 Aroclor 1248
4.957	303686	249082	0.820	0.69	
5.038	1794002	1655561	0.923	4.08	6 Aroclor 1248
5.100	643410	513336	0.798	1.46	
5.162	765077	698728	0.913	1.74	
5.213	547175	504652	0.922	1.24	
5.284	41401	37162	0.898	0.09	
5.308	120103	105343	0.877	0.27	
5.363	470348	418426	0.890	1.07	
5.407	811478	707819	0.872	1.84	
5.445	498126	442022	0.887	1.13	
5.510	1346051	1105489	0.821	3.06	
5.605	392604	337924	0.861	0.89	
5.674	48073	38822	0.808	0.10	
5.717	86755	62682	0.723	0.19	
5.740	101326	88143	0.870	0.23	
5.765	28818	38498	1.336	0.06	
5.792	911257	762608	0.837	2.07	
5.889	94463	79681	0.844	0.21	
5.913	50133	31292	0.624	0.11	
5.994	30626	28514	0.931	0.06	
6.025	762038	662252	0.869	1.73	
6.055	160892	129589	0.805	0.36	
6.171	81256	53475	0.658	0.18	
6.228	54811	30043	0.548	0.12	
6.300	235601	196601	0.834	0.53	
6.333	46391	39165	0.844	0.10	
6.376	41268	29678	0.719	0.09	
6.447	37982	15949	0.420	0.08	
6.509	37155	37405	1.007	0.08	
6.537	96382	65323	0.678	0.21	
6.604	13761	11378	0.827	0.03	
6.719	40218	33312	0.828	0.09	
6.759	20105	17496	0.870	0.04	
6.803	43393	37801	0.871	0.09	
6.843	24388	14465	0.593	0.05	
6.941	11214	8137	0.726	0.02	
7.004	73324	59305	0.809	0.16	
7.126	31431	17422	0.554	0.07	
7.250	27971	25551	0.913	0.06	
7.391	30533	26580	0.871	0.06	
7.444	27775	25655	0.924	0.06	
7.693	17906	15318	0.855	0.04	
7.728	28913	24590	0.850	0.06	
7.779	18403	15964	0.867	0.04	
7.802	17401	15137	0.870	0.03	
7.901	30922	23185	0.750	0.07	
8.276	52635	47411	0.901	0.11	
8.380	33122	21479	0.648	0.07	
8.571	5194473	4505821	0.867	11.81	
8.943	27069	16672	0.616	0.06	
9.470	33315	19626	0.589	0.07	
9.960	28297	18719	0.662	0.06	
	43949512	39304455		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1173198	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2052387	0.50000	0.49	0.00- 20.00	174.94	BA
4.813	4.812	0.001	1017190	0.50000	0.50	0.00- 20.00	86.70	BA
4.879	4.879	0.000	2527488	0.50000	0.50	0.00- 20.00	215.44	BA
5.037	5.038	-0.001	1794001	0.50000	0.50	0.00- 20.00	152.92	BA
Average of Peak Amounts =					0.49800			

QC Flag Legend

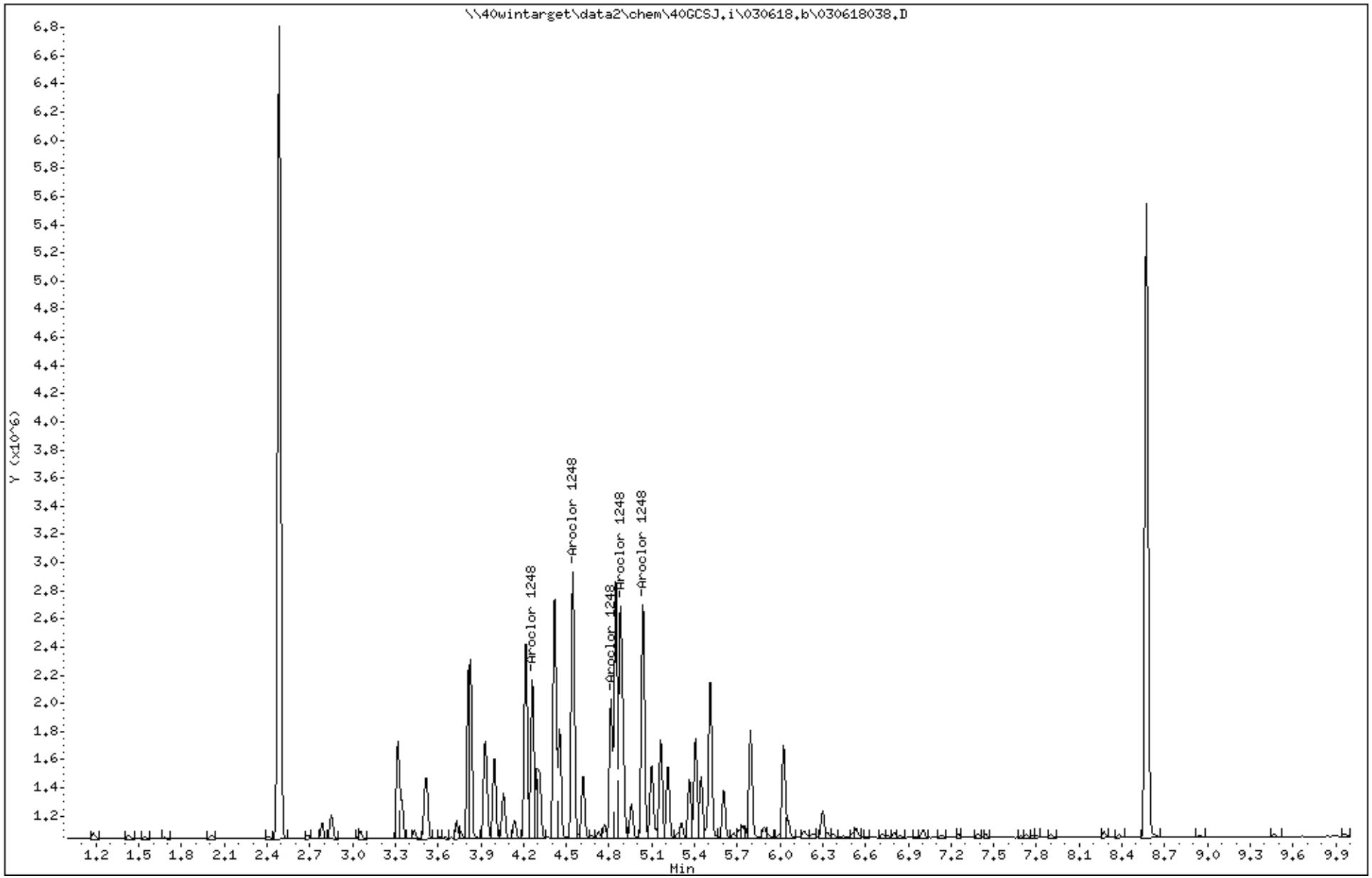
M - Compound response manually integrated.

Review Codes Legend

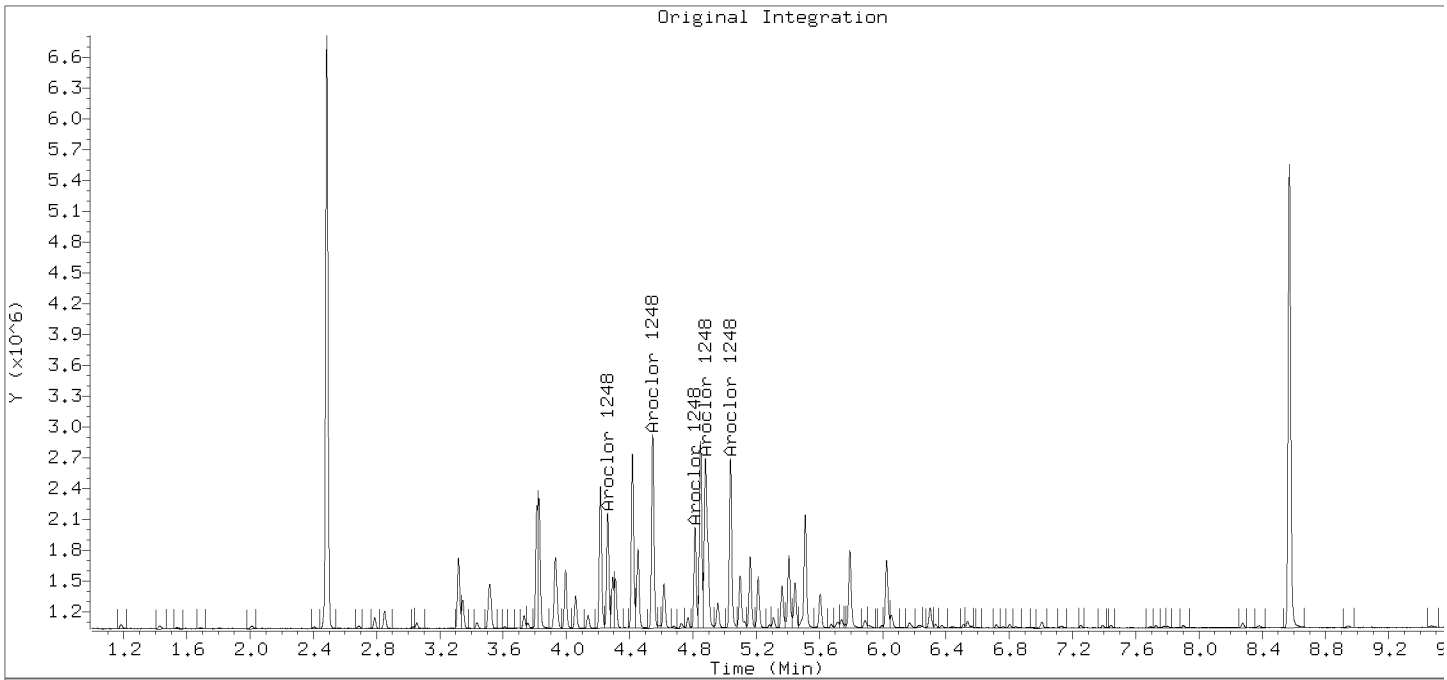
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

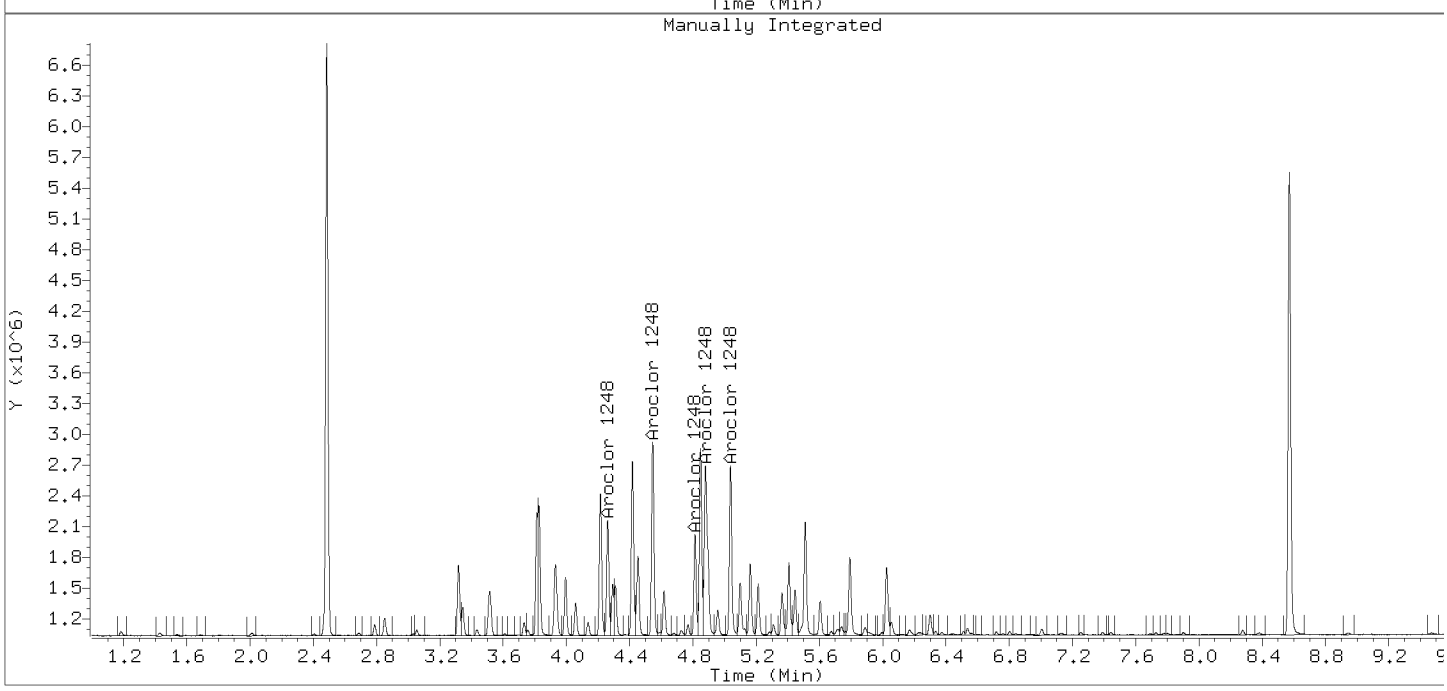
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618038.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL3D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA
Aroclor 1248	1161123	1173198	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	23783	14012	0.589	0.03		
1.430	68772	56288	0.818	0.09		
1.538	27818	21841	0.785	0.03		
2.406	41368	29218	0.706	0.05		
2.485	11662105	11112795	0.953	17.14		
2.688	47215	38573	0.817	0.06		
2.788	203552	191980	0.943	0.29		
2.851	287413	258349	0.899	0.41		
3.055	100338	85256	0.850	0.14		
3.318	1056102	1019716	0.966	1.50		
3.345	441526	421992	0.956	0.63		
3.434	97081	90204	0.929	0.13		
3.515	910659	658598	0.723	1.30		
3.611	32844	31062	0.946	0.04		
3.651	12163	10814	0.889	0.01		
3.695	12227	11029	0.902	0.01		
3.732	195496	195587	1.000	0.27		
3.756	83420	81444	0.976	0.11		
3.814	1567662	1791160	1.143	2.24		
3.827	1917579	1885095	0.983	2.74		
3.931	1340766	1031743	0.770	1.91		
3.994	893318	859435	0.962	1.27		
4.059	507945	474678	0.935	0.72		
4.137	209816	195120	0.930	0.29		
4.216	2174966	1996009	0.918	3.10		
4.262	1747290	1634508	0.935	2.49	6 Aroclor 1248	BA
4.293	719186	757380	1.053	1.02		
4.311	795770	743692	0.935	1.13		
4.418	2683345	2471775	0.921	3.83		
4.453	1336671	1172433	0.877	1.91		
4.546	3077708	2813367	0.914	4.39	6 Aroclor 1248	BA
4.592	50782	48315	0.951	0.07		
4.618	721531	680792	0.944	1.03		
4.682	39778	31109	0.782	0.05		
4.727	90436	74601	0.825	0.12		
4.768	164069	159220	0.970	0.23		
4.814	1529584	1458936	0.954	2.18	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.849	2912545	2807178	0.964	4.16	
4.879	3756486	2507650	0.668	5.36	6 Aroclor 1248
4.959	446081	367801	0.825	0.63	
5.038	2709000	2506705	0.925	3.87	6 Aroclor 1248
5.100	972027	775936	0.798	1.38	
5.163	1142709	1049261	0.918	1.63	
5.213	827376	755691	0.913	1.18	
5.285	59301	53069	0.895	0.08	
5.309	180372	153614	0.852	0.25	
5.364	725905	634309	0.874	1.03	
5.408	1217313	1074540	0.883	1.73	
5.447	755270	658840	0.872	1.07	
5.510	2000999	1684613	0.842	2.85	
5.605	577093	528233	0.915	0.82	
5.676	67052	59659	0.890	0.09	
5.718	120890	90293	0.747	0.17	
5.742	139371	130806	0.939	0.19	
5.763	48200	56761	1.178	0.06	
5.793	1366535	1115283	0.816	1.95	
5.888	190518	116597	0.612	0.27	
5.995	43830	40905	0.933	0.06	
6.025	1167064	1029378	0.882	1.66	
6.056	233192	189145	0.811	0.33	
6.171	117974	81314	0.689	0.16	
6.229	73058	40661	0.557	0.10	
6.299	353507	303097	0.857	0.50	
6.334	67864	56427	0.831	0.09	
6.373	56825	43449	0.765	0.08	
6.434	31012	16905	0.545	0.04	
6.512	66221	56258	0.850	0.09	
6.538	139332	94112	0.675	0.19	
6.604	20526	17194	0.838	0.02	
6.665	17050	12889	0.756	0.02	
6.720	59223	48657	0.822	0.08	
6.761	28886	25179	0.872	0.04	
6.804	64363	56227	0.874	0.09	
6.841	26723	19155	0.717	0.03	
7.005	107576	96122	0.894	0.15	
7.124	36317	20799	0.573	0.05	
7.253	47298	40406	0.854	0.06	
7.284	14796	11885	0.803	0.02	
7.392	50134	42799	0.854	0.07	
7.444	51593	44890	0.870	0.07	
7.690	21646	19744	0.912	0.03	
7.730	50158	42338	0.844	0.07	
7.804	37842	29484	0.779	0.05	
7.903	37446	35295	0.943	0.05	
8.276	107716	86008	0.798	0.15	
8.382	16440	13810	0.840	0.02	
8.573	9713869	8374648	0.862	13.88	
9.468	13816	9740	0.705	0.01	
9.968	11075	9075	0.819	0.01	
	69971497	62742960		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1747289	0.80000	0.74	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3077707	0.80000	0.74	0.00- 20.00	176.14	BA
4.813	4.812	0.001	1529584	0.80000	0.75	0.00- 20.00	87.54	BA
4.878	4.879	-0.001	3756485	0.80000	0.74	0.00- 20.00	214.99	BA
5.038	5.038	0.000	2708999	0.80000	0.75	0.00- 20.00	155.04	BA
Average of Peak Amounts =					0.74400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

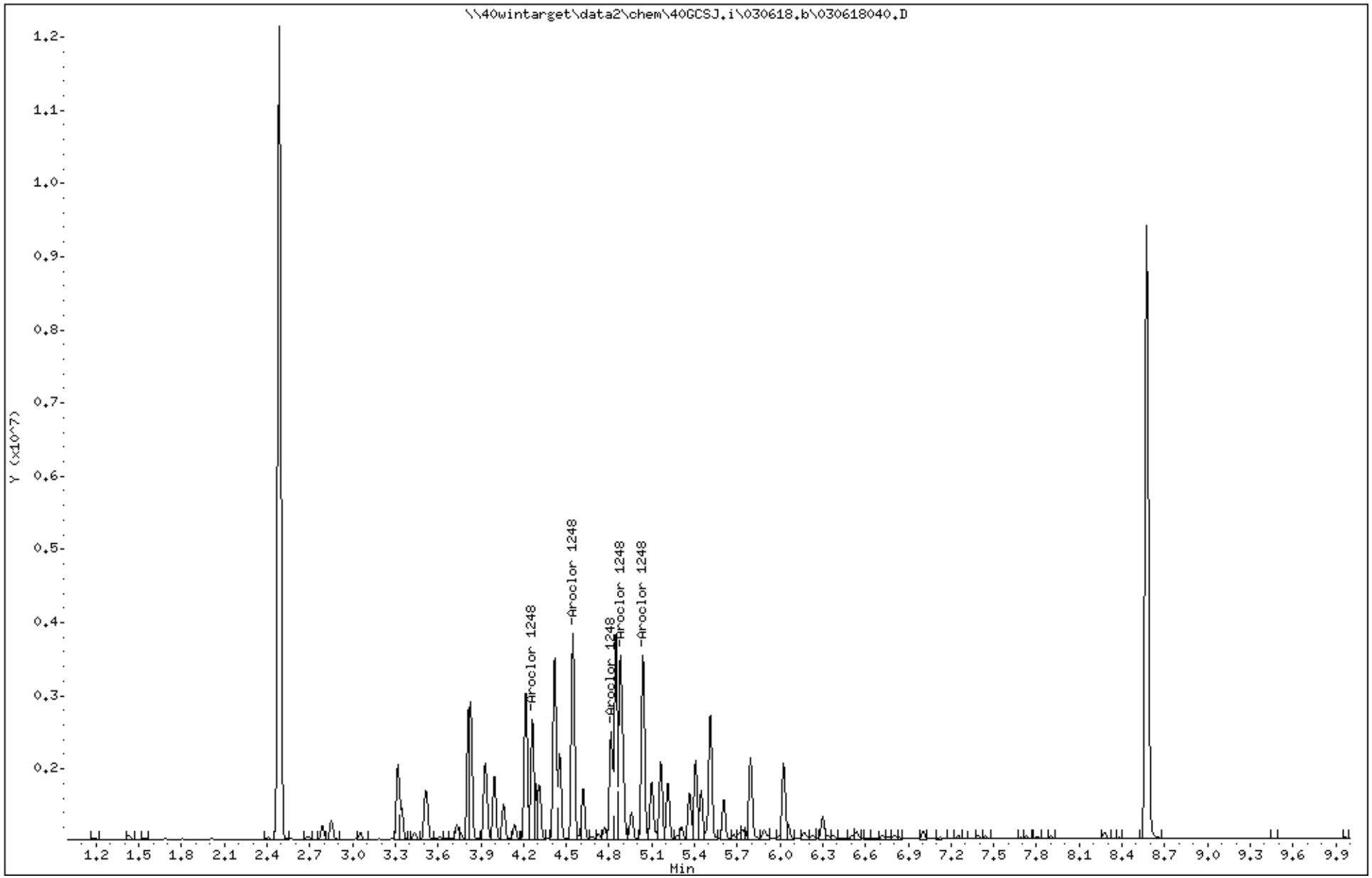
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

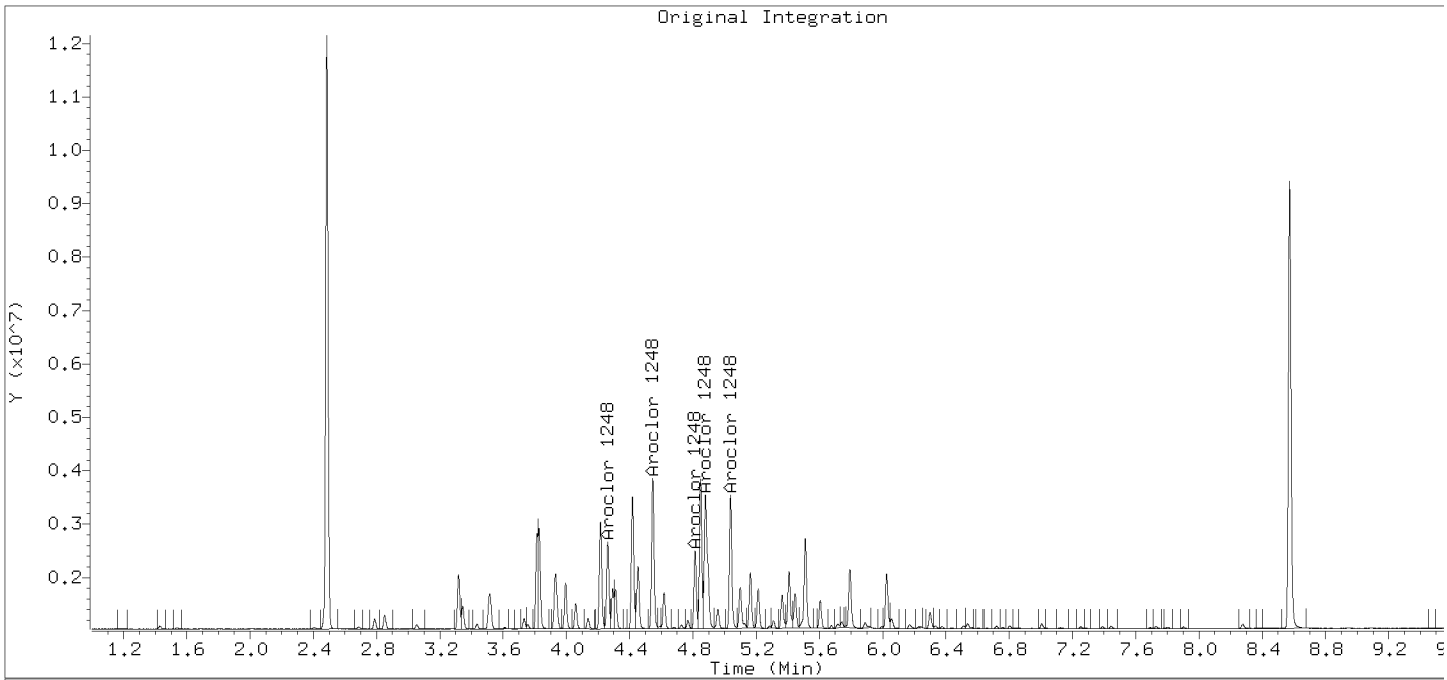
Operator: BLM

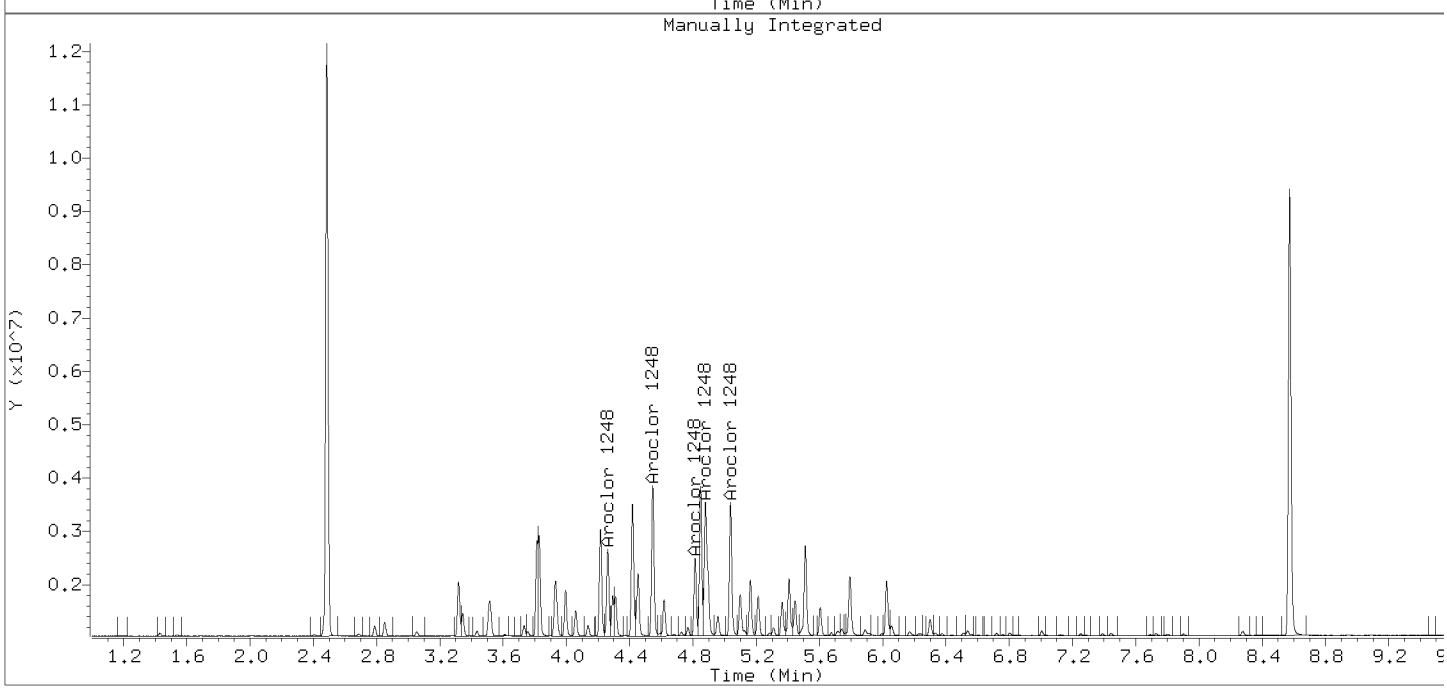
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618040.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL4D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA
Aroclor 1248	1739344	1747289	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	15397	13334	0.866	0.01		
1.430	101369	87214	0.860	0.10		
1.537	43989	34591	0.786	0.04		
2.406	47903	33430	0.698	0.05		
2.485	17721229	17125552	0.966	19.37		
2.688	56165	47205	0.840	0.05		
2.788	288750	277495	0.961	0.30		
2.851	348759	325290	0.933	0.37		
3.054	123922	115841	0.935	0.13		
3.273	9293	8724	0.939	0.00		
3.318	1341983	1263092	0.941	1.43		
3.344	567538	536022	0.944	0.60		
3.434	126309	115528	0.915	0.13		
3.516	1155877	827361	0.716	1.23		
3.611	47908	47362	0.989	0.05		
3.647	10831	12550	1.159	0.01		
3.696	12947	14220	1.098	0.01		
3.732	246189	245791	0.998	0.26		
3.758	102423	103998	1.015	0.10		
3.814	1931729	2268598	1.174	2.06		
3.826	2479017	2389735	0.964	2.64		
3.931	1695811	1294913	0.764	1.80		
3.995	1133597	1088944	0.961	1.20		
4.059	642924	621662	0.967	0.68		
4.136	260443	245788	0.944	0.27		
4.216	2732694	2586455	0.946	2.91		
4.261	2183583	2056861	0.942	2.32	6 Aroclor 1248	BA
4.293	940491	949013	1.009	1.00		
4.310	984371	940127	0.955	1.05		
4.373	17082	14222	0.833	0.01		
4.418	3371096	3162549	0.938	3.59		
4.453	1703074	1454953	0.854	1.81		
4.546	3891543	3587538	0.922	4.15	6 Aroclor 1248	BA
4.591	55507	60505	1.090	0.05		
4.618	922889	867798	0.940	0.98		
4.679	46691	38089	0.816	0.04		
4.728	116729	92875	0.796	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	206094	200087	0.971	0.21	
4.814	1927122	1857150	0.964	2.05	6 Aroclor 1248
4.849	3694572	3560273	0.964	3.94	
4.880	4748871	3261898	0.687	5.06	6 Aroclor 1248
4.958	573809	487686	0.850	0.61	
5.038	3440920	3224544	0.937	3.67	6 Aroclor 1248
5.099	1231738	975474	0.792	1.31	
5.163	1442598	1311329	0.909	1.53	
5.213	1046539	961794	0.919	1.11	
5.285	77016	69190	0.898	0.08	
5.309	226198	194152	0.858	0.24	
5.364	920750	826849	0.898	0.98	
5.407	1532611	1323050	0.863	1.63	
5.446	983454	847993	0.862	1.04	
5.511	2532627	2102151	0.830	2.70	
5.605	736667	659983	0.896	0.78	
5.676	82056	71573	0.872	0.08	
5.717	150366	114784	0.763	0.16	
5.741	184149	167330	0.909	0.19	
5.762	57712	71463	1.238	0.06	
5.793	1735942	1359776	0.783	1.85	
5.890	231734	149127	0.644	0.24	
5.994	49770	49696	0.999	0.05	
6.025	1490983	1293880	0.868	1.59	
6.056	314721	242832	0.772	0.33	
6.169	146062	104225	0.714	0.15	
6.227	101525	50840	0.501	0.10	
6.299	449260	381467	0.849	0.47	
6.335	84948	72590	0.855	0.09	
6.375	71691	55450	0.773	0.07	
6.435	33526	20718	0.618	0.03	
6.510	77044	72111	0.936	0.08	
6.537	172087	123276	0.716	0.18	
6.609	25723	18897	0.735	0.02	
6.660	18434	15697	0.852	0.01	
6.721	70509	61602	0.874	0.07	
6.760	38763	32658	0.843	0.04	
6.802	83703	70972	0.848	0.08	
6.842	38188	23754	0.622	0.04	
6.914	13236	11502	0.869	0.01	
6.943	16695	13481	0.807	0.01	
7.006	152792	119576	0.783	0.16	
7.122	35477	27446	0.774	0.03	
7.252	56007	44086	0.787	0.05	
7.388	61340	50925	0.830	0.06	
7.446	59037	54928	0.930	0.06	
7.692	28579	27869	0.975	0.03	
7.730	76894	62730	0.816	0.08	
7.802	60957	40295	0.661	0.06	
7.901	57972	43159	0.744	0.06	
8.276	150141	122351	0.815	0.16	
8.379	21548	15836	0.735	0.02	
8.573	14394097	12289354	0.854	15.35	
8.946	18562	11531	0.621	0.01	
9.086	15319	13297	0.868	0.01	
9.963	9351	8698	0.930	0.00	
	93736539	84400610		100.000	

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2183582	1.00000	0.93	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3891542	1.00000	0.94	0.00- 20.00	178.22	BA
4.813	4.812	0.001	1927121	1.00000	0.95	0.00- 20.00	88.26	BA
4.879	4.879	0.000	4748871	1.00000	0.94	0.00- 20.00	217.48	BA
5.037	5.038	-0.001	3440920	1.00000	0.96	0.00- 20.00	157.58	BA
Average of Peak Amounts =					0.94400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

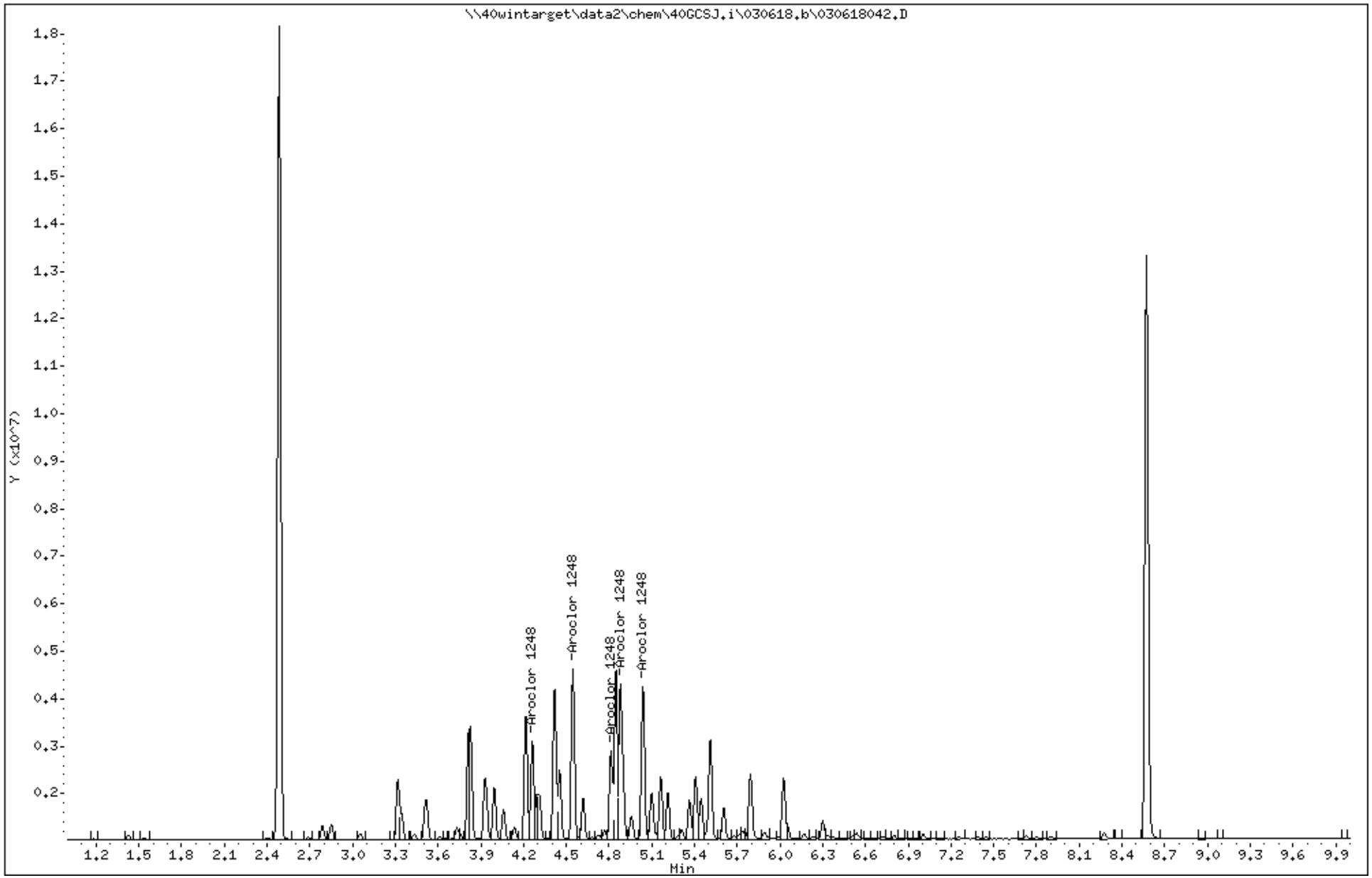
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

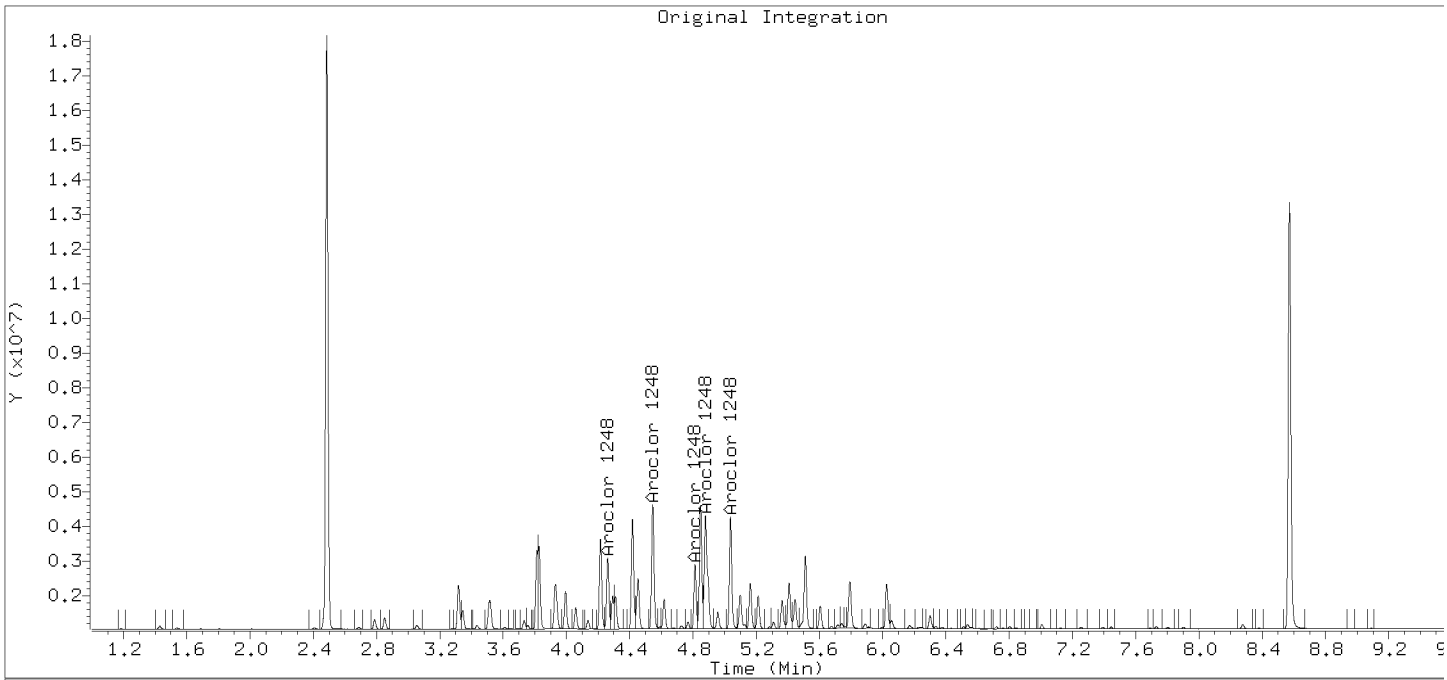
Operator: BLM

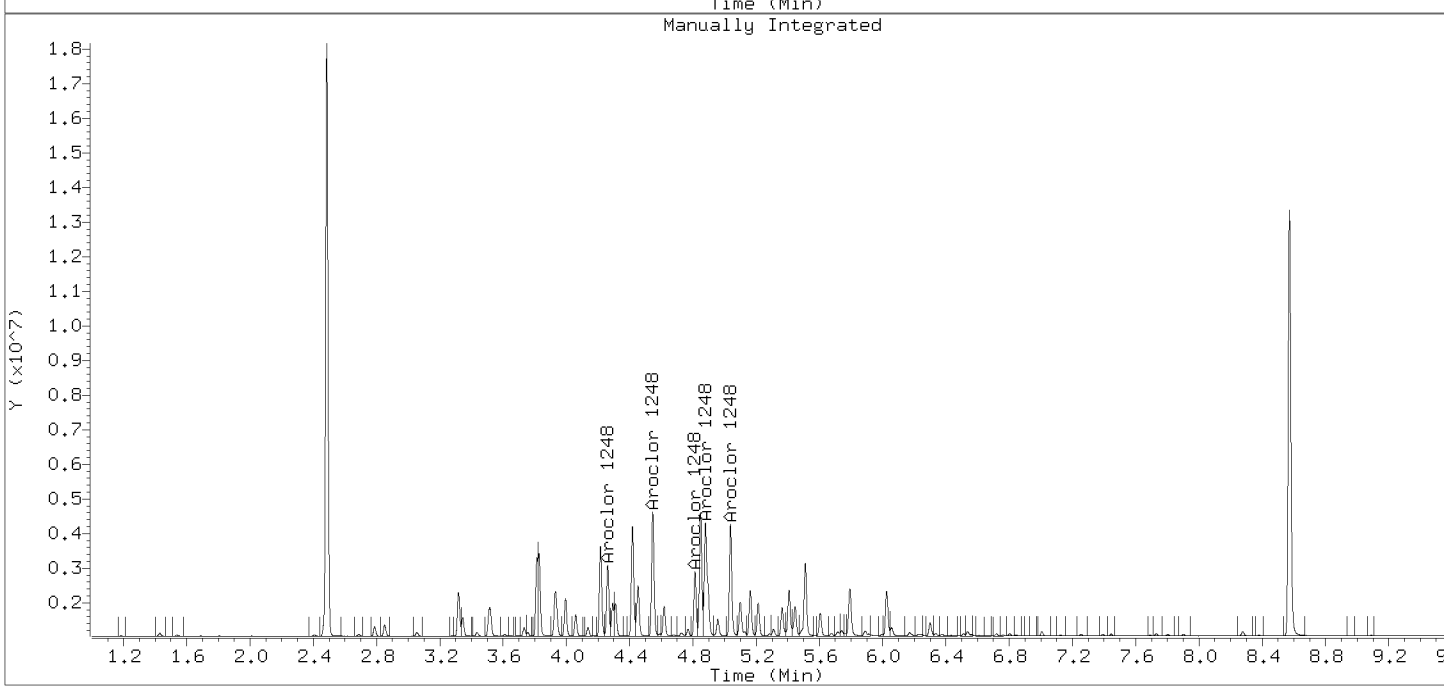
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618042.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CAL5D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA
Aroclor 1248	2175285	2183582	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	48987	40093	0.818	0.41		
1.426	12583	10350	0.823	0.10		
1.686	14588	13145	0.901	0.12		
2.011	39185	27090	0.691	0.33		
2.484	1264026	1229666	0.973	11.03		
2.787	25737	23306	0.906	0.21		
3.028	26930	17363	0.645	0.22		
3.814	29490	14918	0.506	0.25		
4.000	27012	19985	0.740	0.22		
4.046	9554	8540	0.894	0.08		
4.215	267608	259554	0.970	2.27		
4.260	70496	69050	0.979	0.59		
4.293	14185	11720	0.826	0.12		
4.418	167997	155970	0.928	1.42		
4.452	20339	17534	0.862	0.17		
4.547	73516	70272	0.956	0.62		
4.615	15012	14316	0.954	0.12		
4.813	63092	62377	0.989	0.53		
4.848	232331	222423	0.957	1.97		
4.895	547413	435444	0.795	4.64		
4.958	89049	77209	0.867	0.75		
5.038	53508	47334	0.885	0.45		
5.101	310238	269708	0.869	2.63		
5.163	578338	533266	0.922	4.91	7 Aroclor 1254	BA
5.213	259231	232363	0.896	2.20		
5.286	13290	15715	1.182	0.11		
5.310	48017	42464	0.884	0.40		
5.363	222324	207379	0.933	1.88		
5.408	461676	411346	0.891	3.91	7 Aroclor 1254	BA
5.446	153810	143804	0.935	1.30		
5.478	60811	58639	0.964	0.51		
5.511	843524	762911	0.904	7.16	7 Aroclor 1254	BA
5.605	121504	105369	0.867	1.03		
5.676	76082	73395	0.965	0.64		
5.712	129494	82303	0.636	1.09		
5.740	72702	60950	0.838	0.61		
5.791	864719	646413	0.748	7.34		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.885	76602	58309	0.761	0.65	
5.925	46537	28076	0.603	0.39	
5.994	69953	65994	0.943	0.59	
6.027	514088	428155	0.833	4.36	7 Aroclor 1254
6.056	378012	325072	0.860	3.20	
6.169	154351	125775	0.815	1.31	
6.228	120109	63109	0.525	1.01	
6.300	701502	599827	0.855	5.95	7 Aroclor 1254
6.335	126230	111073	0.880	1.07	
6.375	74344	60647	0.816	0.63	
6.443	34233	19876	0.581	0.29	
6.512	29729	27649	0.930	0.25	
6.536	235571	178655	0.758	2.00	
6.607	36815	29017	0.788	0.31	
6.719	47979	41305	0.861	0.40	
6.759	31561	26431	0.837	0.26	
6.803	129897	110305	0.849	1.10	
6.844	33654	23973	0.712	0.28	
6.948	16896	13072	0.774	0.14	
7.005	90785	79102	0.871	0.77	
7.138	27852	16095	0.578	0.23	
7.253	92553	68397	0.739	0.78	
7.776	24601	16237	0.660	0.20	
7.900	9733	7403	0.761	0.08	
8.278	11455	11514	1.005	0.09	
8.380	27407	19837	0.724	0.23	
8.573	1220451	1043440	0.855	10.36	
8.945	34590	22887	0.662	0.29	
9.468	24800	20749	0.837	0.21	
9.962	27633	19326	0.699	0.23	
	11778321	10154991		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	578337	0.10000	0.11	0.00- 20.00	100.00(M)	BA
5.408	5.408	0.000	461675	0.10000	0.11	0.00- 20.00	79.83	BA
5.510	5.510	0.000	843524	0.10000	0.11	0.00- 20.00	145.85	BA
6.026	6.027	-0.001	514088	0.10000	0.10	0.00- 20.00	88.89	BA
6.299	6.299	0.000	701502	0.10000	0.11	0.00- 20.00	121.30	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

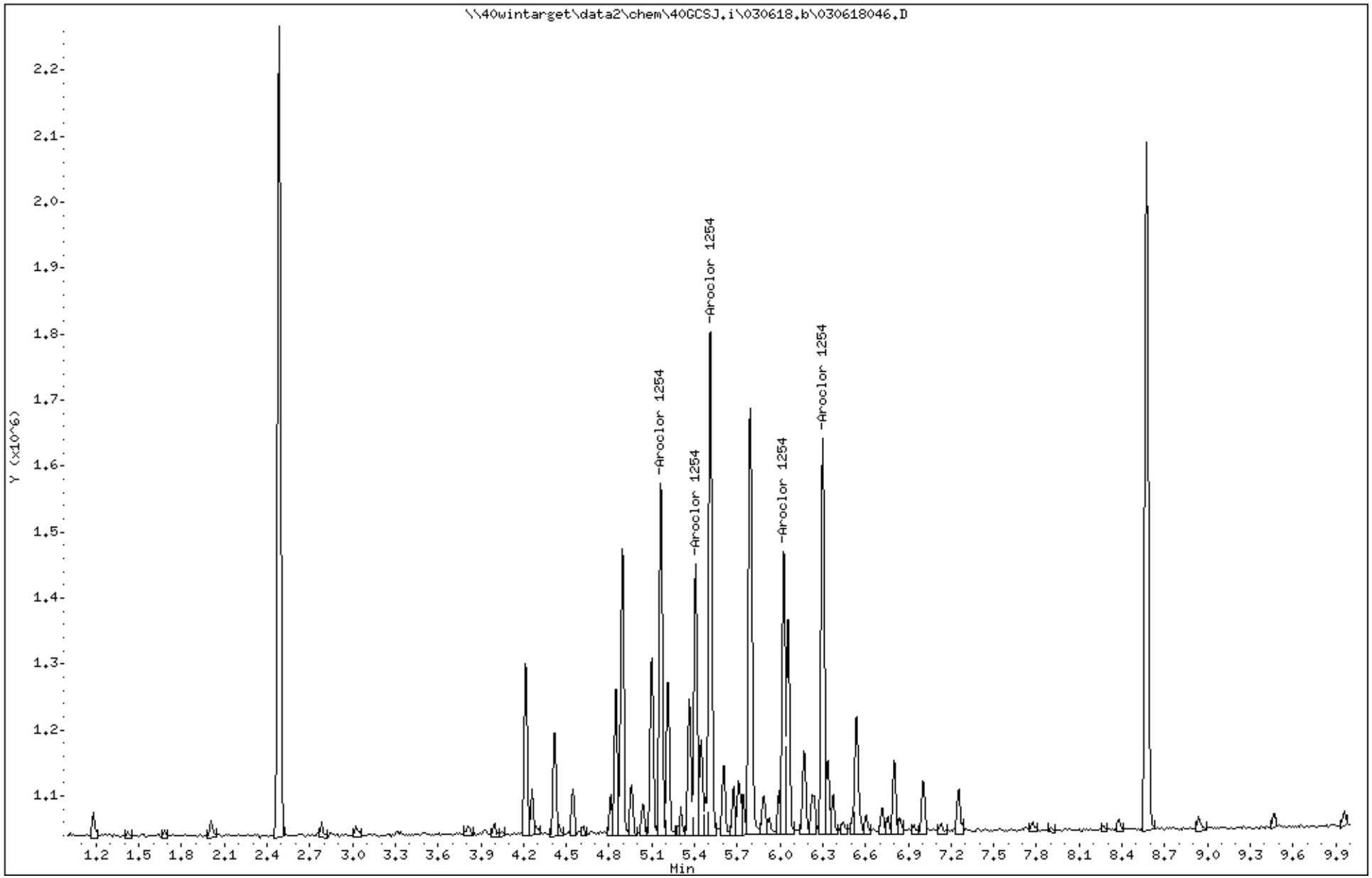
M - Compound response manually integrated.

Review Codes Legend

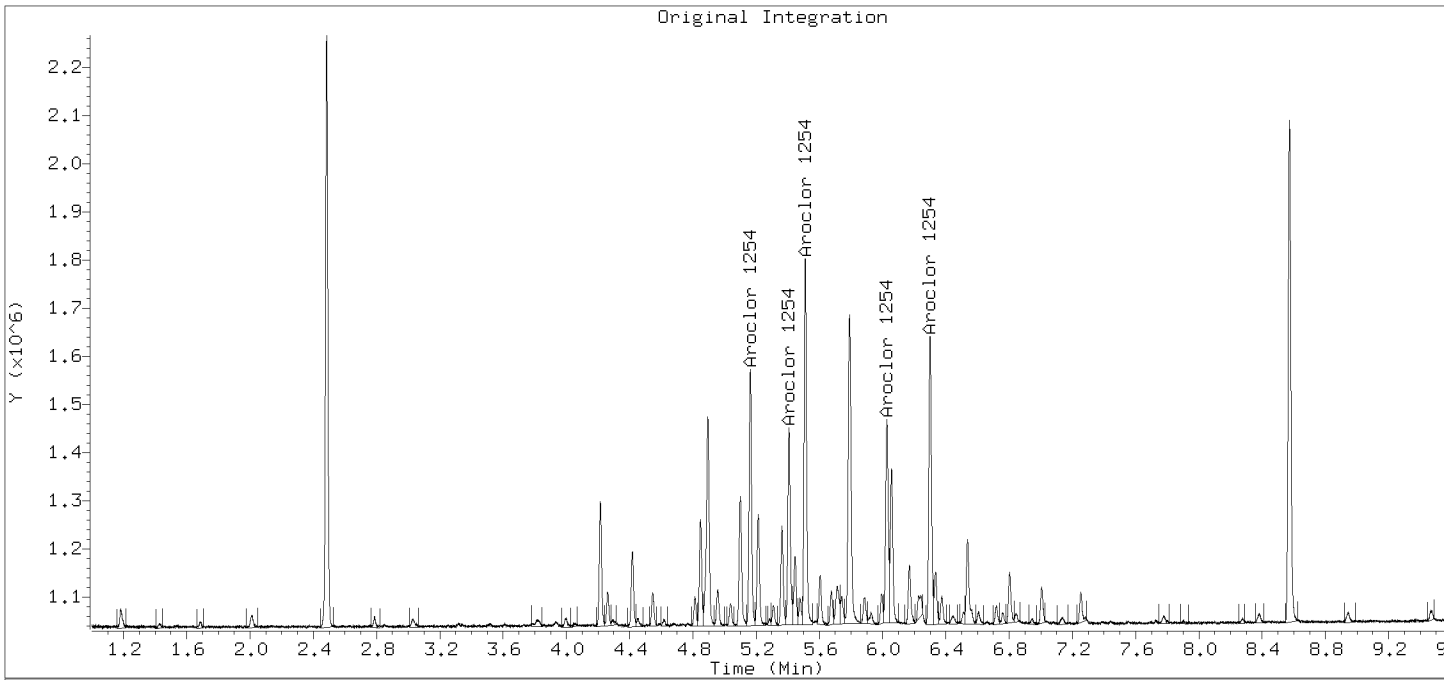
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

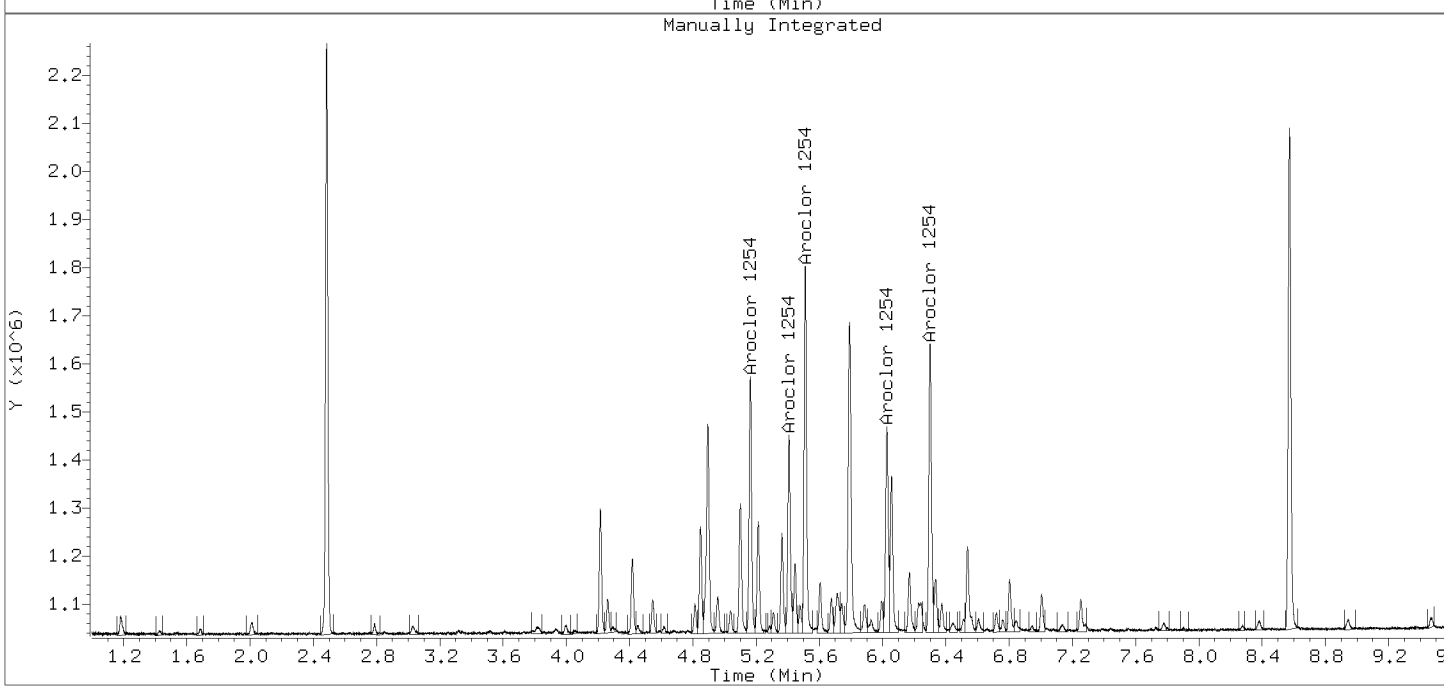
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618046.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 16:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL1C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA
Aroclor 1254	575308	578337	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	14785	11446	0.774	0.06		
1.428	22932	16453	0.717	0.10		
2.008	13252	7547	0.570	0.05		
2.484	2443152	2335532	0.956	11.18		
2.785	38923	36879	0.947	0.17		
3.317	15688	15090	0.962	0.06		
3.816	33314	23152	0.695	0.14		
3.936	25391	18861	0.743	0.11		
3.991	19776	14851	0.751	0.08		
4.057	14294	10125	0.708	0.06		
4.215	518990	504810	0.973	2.30		
4.262	130759	134614	1.029	0.57		
4.417	318089	306882	0.965	1.40		
4.453	36792	31401	0.853	0.16		
4.546	146634	140842	0.961	0.64		
4.594	9667	9066	0.938	0.04		
4.619	30811	24715	0.802	0.13		
4.679	14300	9754	0.682	0.06		
4.812	124031	118773	0.958	0.54		
4.848	455414	441589	0.970	2.01		
4.894	1053205	858019	0.815	4.66		
4.957	173883	154163	0.887	0.77		
5.038	101462	94180	0.928	0.44		
5.100	607083	520373	0.857	2.69		
5.163	1130516	1047365	0.926	5.01	7 Aroclor 1254	BA
5.213	500908	455276	0.909	2.22		
5.257	17625	16702	0.948	0.07		
5.285	29337	27985	0.954	0.13		
5.309	96003	86176	0.898	0.42		
5.363	431219	406625	0.943	1.91		
5.407	916372	831698	0.908	4.06	7 Aroclor 1254	BA
5.447	306543	274508	0.895	1.35		
5.478	113703	114036	1.003	0.50		
5.510	1657392	1480187	0.893	7.34	7 Aroclor 1254	BA
5.579	19853	16482	0.830	0.08		
5.605	231410	203474	0.879	1.02		
5.675	151855	139702	0.920	0.67		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.713	234337	153331	0.654	1.03	
5.740	130944	119042	0.909	0.58	
5.790	1692901	1288520	0.761	7.50	
5.884	152797	115170	0.754	0.67	
5.927	77749	50774	0.653	0.34	
5.994	139616	133887	0.959	0.61	
6.026	1030270	853221	0.828	4.56	7 Aroclor 1254
6.056	727544	649744	0.893	3.22	
6.086	209395	142010	0.678	0.92	
6.169	306146	246695	0.806	1.35	
6.228	123149	122142	0.992	0.54	
6.241	143819	124934	0.869	0.63	
6.299	1396395	1154592	0.827	6.18	7 Aroclor 1254
6.334	246981	213346	0.864	1.09	
6.375	147488	117497	0.797	0.65	
6.438	46079	24168	0.524	0.20	
6.512	58184	55972	0.962	0.25	
6.537	454237	352793	0.777	2.01	
6.605	73055	56160	0.769	0.32	
6.660	18073	13693	0.758	0.08	
6.720	93177	76403	0.820	0.41	
6.760	56477	50956	0.902	0.25	
6.802	250222	217408	0.869	1.10	
6.845	76101	47284	0.621	0.33	
6.945	29987	22146	0.739	0.13	
7.005	187120	153304	0.819	0.82	
7.252	146914	128748	0.876	0.65	
7.283	43303	26667	0.616	0.19	
7.557	16777	10505	0.626	0.07	
7.903	15055	9793	0.650	0.06	
8.278	21586	17365	0.804	0.09	
8.572	2251771	1853841	0.823	9.97	
	22563007	19541444		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1130515	0.20000	0.22	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	916371	0.20000	0.21	0.00- 20.00	81.06	BA
5.510	5.510	0.000	1657392	0.20000	0.21	0.00- 20.00	146.61	BA
6.026	6.027	-0.001	1030270	0.20000	0.21	0.00- 20.00	91.13	BA
6.299	6.299	0.000	1396394	0.20000	0.21	0.00- 20.00	123.52	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

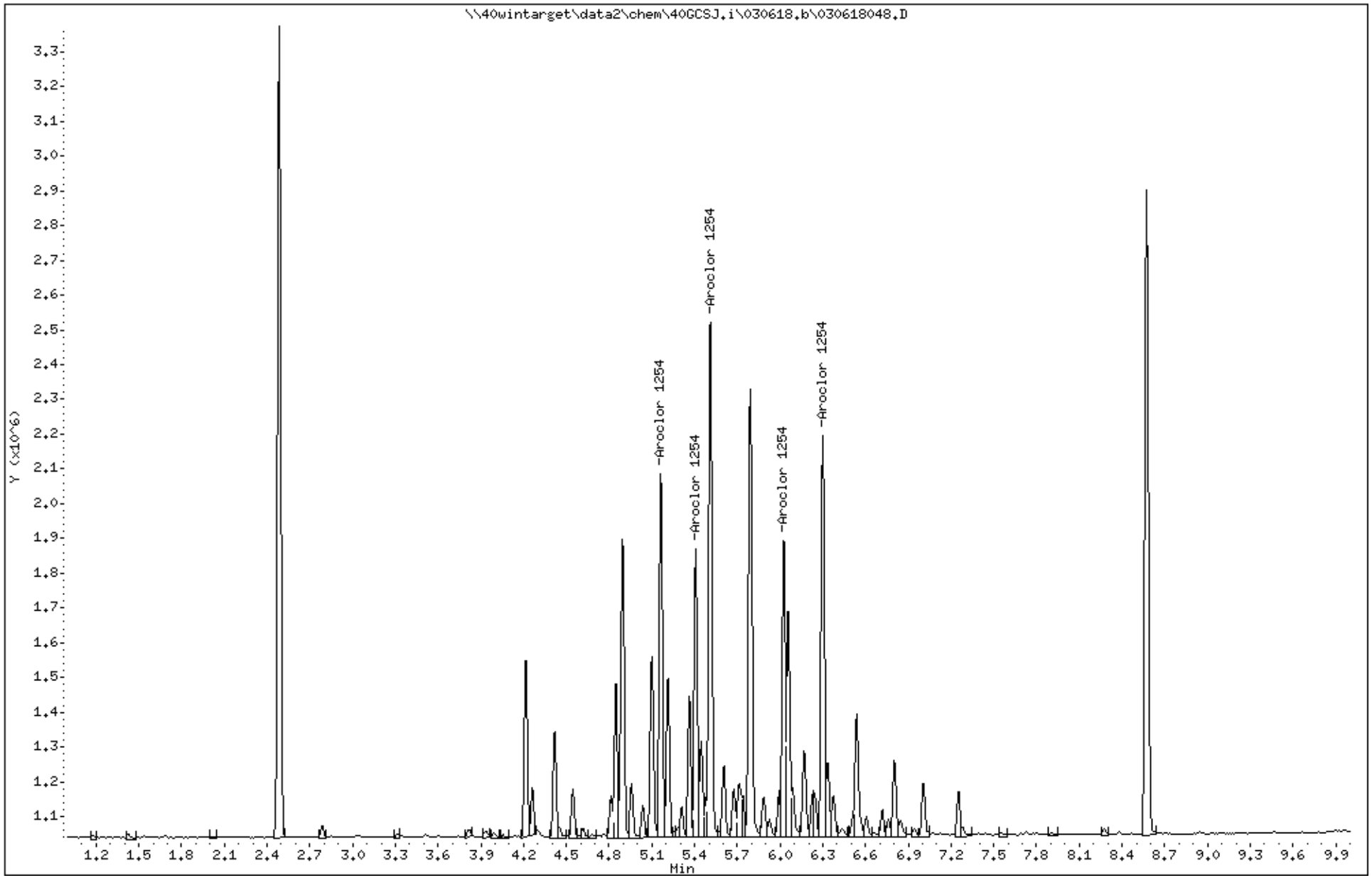
M - Compound response manually integrated.

Review Codes Legend

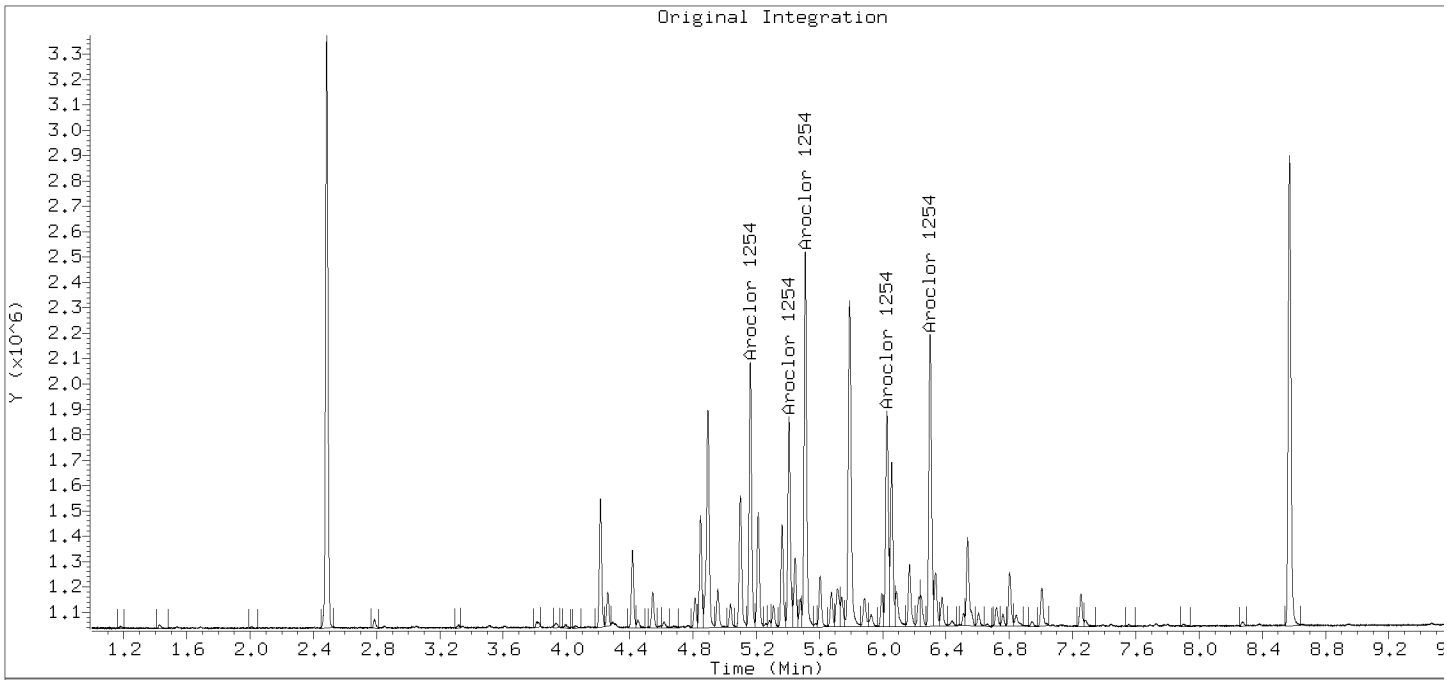
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

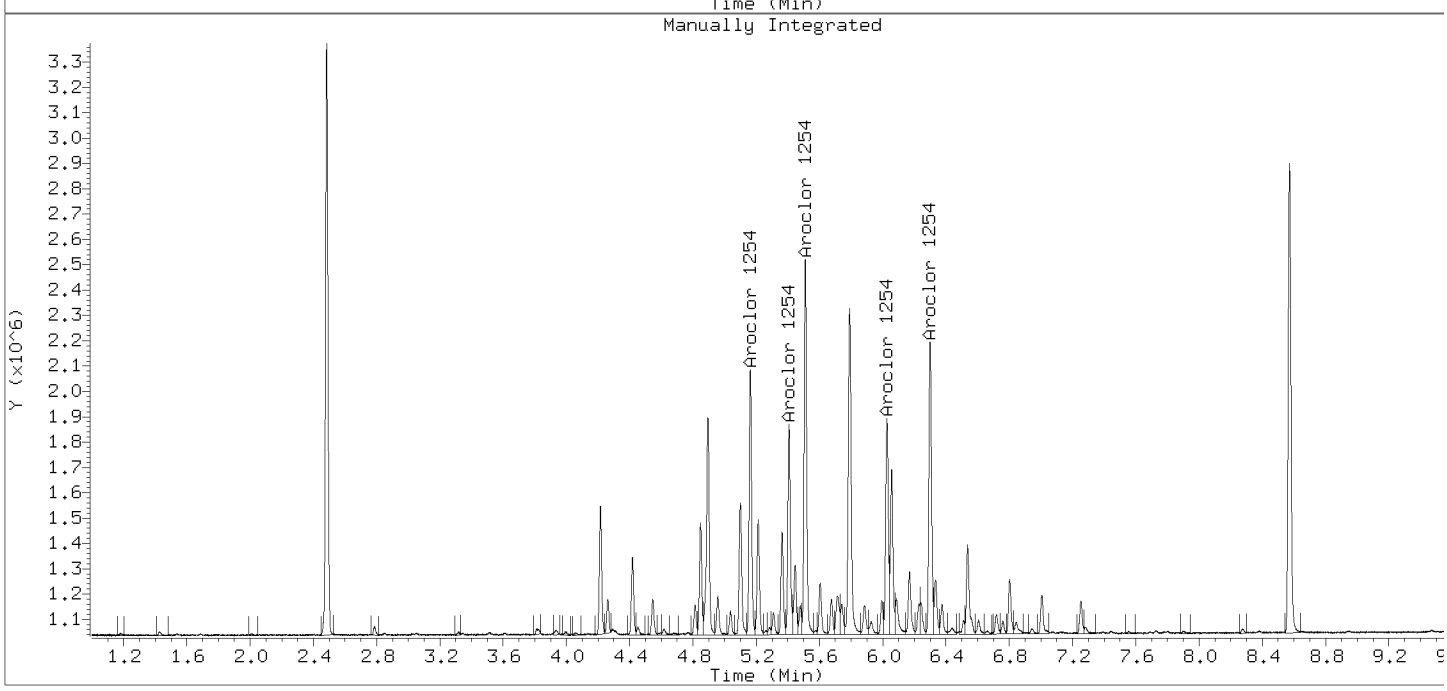
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618048.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL2C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA
Aroclor 1254	1126550	1130515	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	51337	40044	0.780	0.09		
1.429	39957	34317	0.859	0.07		
1.537	17914	13995	0.781	0.03		
1.685	15629	15398	0.985	0.02		
2.011	29599	20853	0.705	0.05		
2.485	6057898	5851038	0.966	12.02		
2.686	9516	7676	0.807	0.01		
2.787	95008	87358	0.919	0.18		
2.851	23819	20877	0.877	0.04		
3.052	13713	14987	1.093	0.02		
3.316	31189	30919	0.991	0.05		
3.344	21096	17017	0.807	0.04		
3.515	29295	21880	0.747	0.05		
3.610	20788	17635	0.848	0.03		
3.728	13013	9960	0.765	0.02		
3.815	75390	52210	0.693	0.14		
3.933	62381	42408	0.680	0.11		
3.996	40445	30149	0.745	0.07		
4.057	24255	18114	0.747	0.04		
4.215	1217908	1150954	0.945	2.32		
4.262	330320	319433	0.967	0.63		
4.292	64830	48630	0.750	0.12		
4.418	748177	726093	0.970	1.42		
4.452	73920	66424	0.899	0.14		
4.545	335088	319422	0.953	0.63		
4.592	16526	15457	0.935	0.03		
4.619	59193	52479	0.887	0.11		
4.685	17734	16983	0.958	0.03		
4.770	20117	19880	0.988	0.03		
4.813	284745	275889	0.969	0.54		
4.849	1084246	1045959	0.965	2.06		
4.895	2405586	1902763	0.791	4.58		
4.957	390371	342893	0.878	0.74		
5.037	238296	218476	0.917	0.45		
5.100	1405616	1219340	0.867	2.68		
5.164	2560293	2304428	0.900	4.88	7 Aroclor 1254	BA
5.213	1173729	1059080	0.902	2.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.285	60363	60152	0.996	0.11	
5.309	214942	193512	0.900	0.41	
5.364	1020588	935288	0.916	1.94	
5.407	2112521	1886528	0.893	4.03	7 Aroclor 1254
5.447	733518	649777	0.886	1.39	
5.479	265192	257135	0.970	0.50	
5.511	3811784	3385999	0.888	7.27	7 Aroclor 1254
5.579	32531	33382	1.026	0.06	
5.605	530818	484241	0.912	1.01	
5.676	348702	323329	0.927	0.66	
5.714	533476	346229	0.649	1.01	
5.742	324759	270812	0.834	0.61	
5.791	3843360	2976827	0.775	7.33	
5.886	336244	269243	0.801	0.64	
5.927	179445	112871	0.629	0.34	
5.994	317667	298687	0.940	0.60	
6.026	2413214	1944030	0.806	4.60	7 Aroclor 1254
6.056	1748224	1477442	0.845	3.33	
6.170	686623	578812	0.843	1.31	
6.229	279467	280903	1.005	0.53	
6.242	317134	279276	0.881	0.60	
6.300	3184410	2766550	0.869	6.07	7 Aroclor 1254
6.334	582664	515473	0.885	1.11	
6.374	330007	275263	0.834	0.62	
6.438	89310	51831	0.580	0.17	
6.487	18679	18109	0.970	0.03	
6.511	122714	122347	0.997	0.23	
6.537	1081766	870038	0.804	2.06	
6.607	157551	128075	0.813	0.30	
6.662	30905	25338	0.820	0.05	
6.718	210754	178569	0.847	0.40	
6.761	129400	110612	0.855	0.24	
6.802	599534	539615	0.900	1.14	
6.844	171759	108076	0.629	0.32	
6.945	57172	47423	0.829	0.10	
7.006	434841	362564	0.834	0.82	
7.077	18727	15733	0.840	0.03	
7.130	24196	17055	0.705	0.04	
7.252	342578	310115	0.905	0.65	
7.282	72487	60104	0.829	0.13	
7.390	19578	16122	0.823	0.03	
7.445	35210	22193	0.630	0.06	
7.553	26390	18609	0.705	0.05	
7.694	16316	14388	0.882	0.03	
7.729	31518	23387	0.742	0.06	
7.778	19445	16730	0.860	0.03	
7.798	20263	16018	0.790	0.03	
7.904	22590	18864	0.835	0.04	
8.276	52953	39504	0.746	0.10	
8.382	28017	19746	0.705	0.05	
8.572	5213644	4428280	0.849	9.94	
8.943	21557	16555	0.768	0.04	
9.466	15645	11531	0.737	0.02	
9.966	18425	14389	0.781	0.03	
	52410519	45695099		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	2560292	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	2112521	0.50000	0.49	0.00- 20.00	82.51	BA
5.510	5.510	0.000	3811784	0.50000	0.49	0.00- 20.00	148.88	BA
6.026	6.027	-0.001	2413214	0.50000	0.50	0.00- 20.00	94.26	BA
6.299	6.299	0.000	3184409	0.50000	0.49	0.00- 20.00	124.38	BA
Average of Peak Amounts =					0.49200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

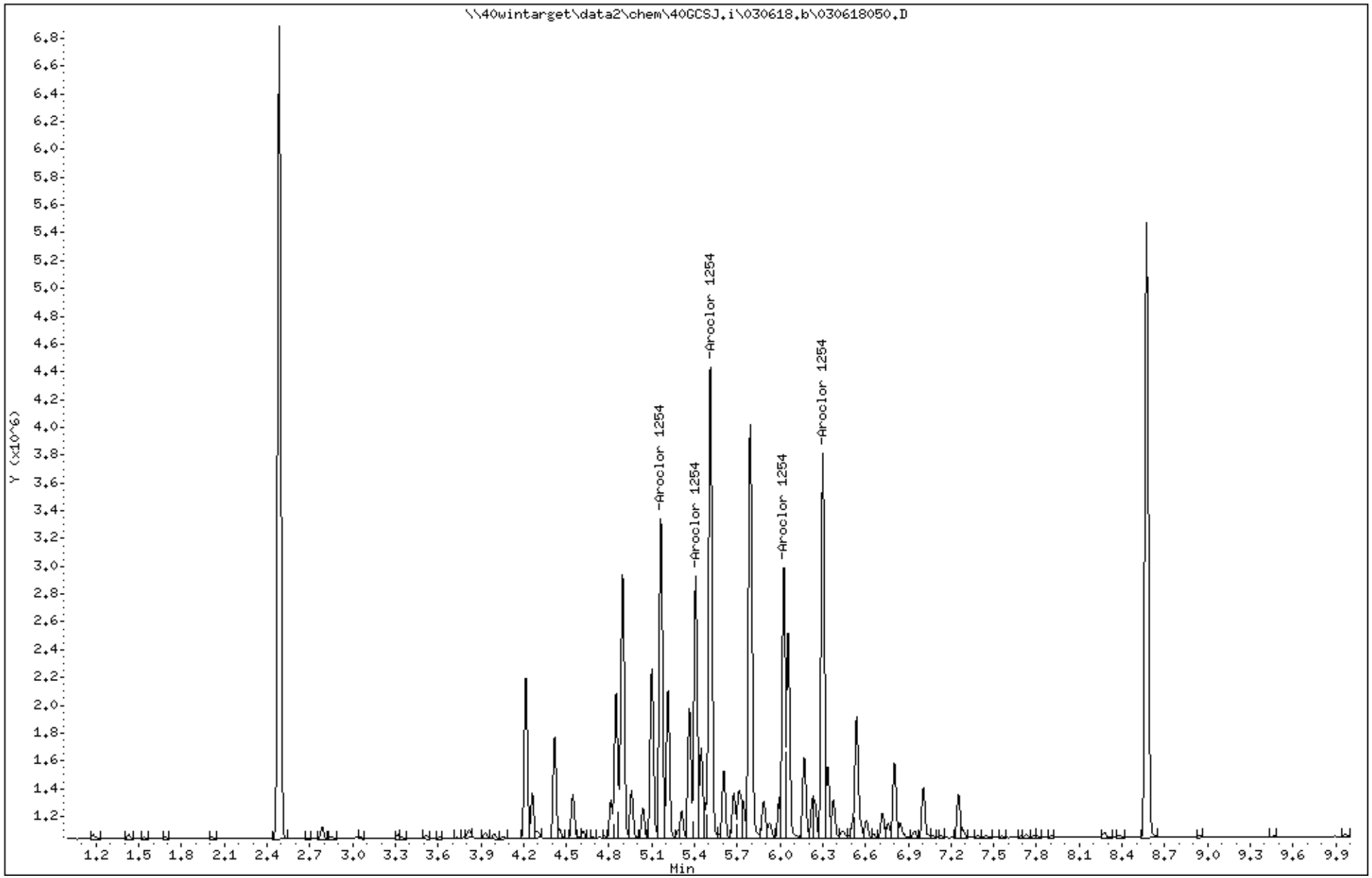
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

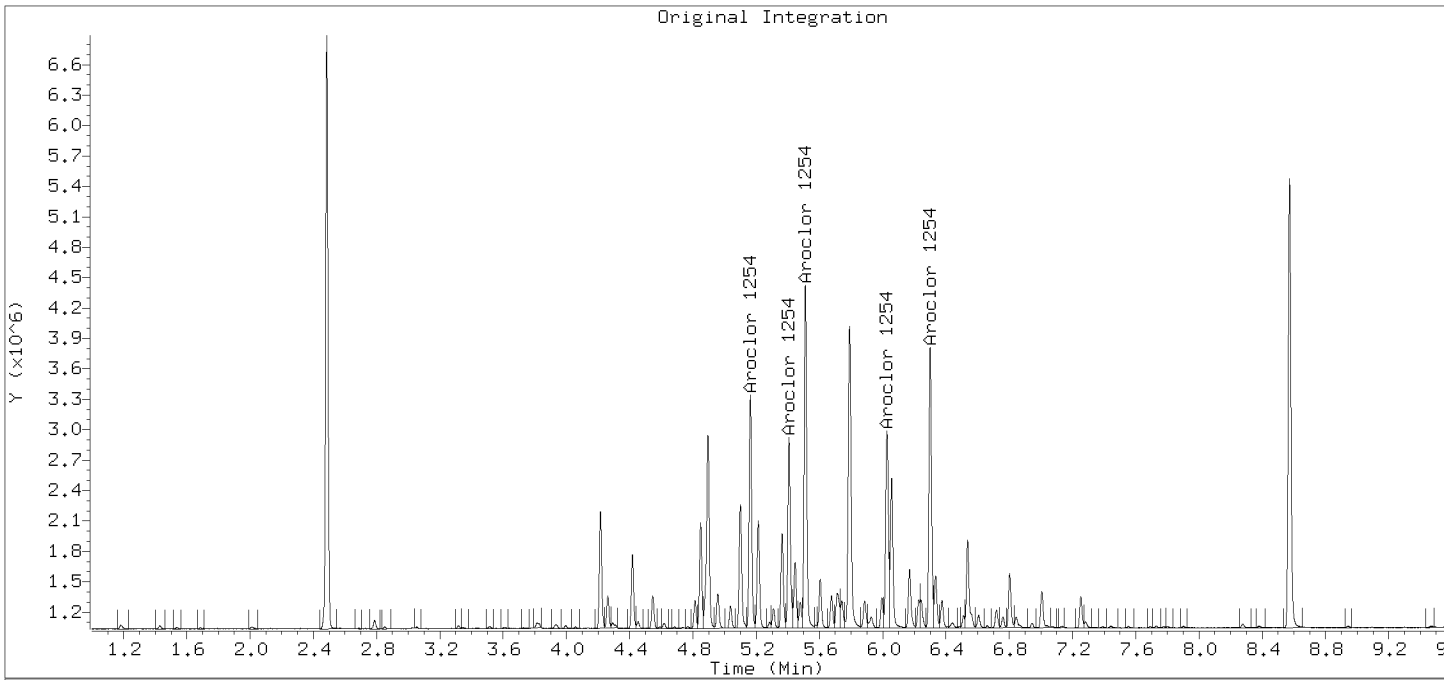
Operator: BLM

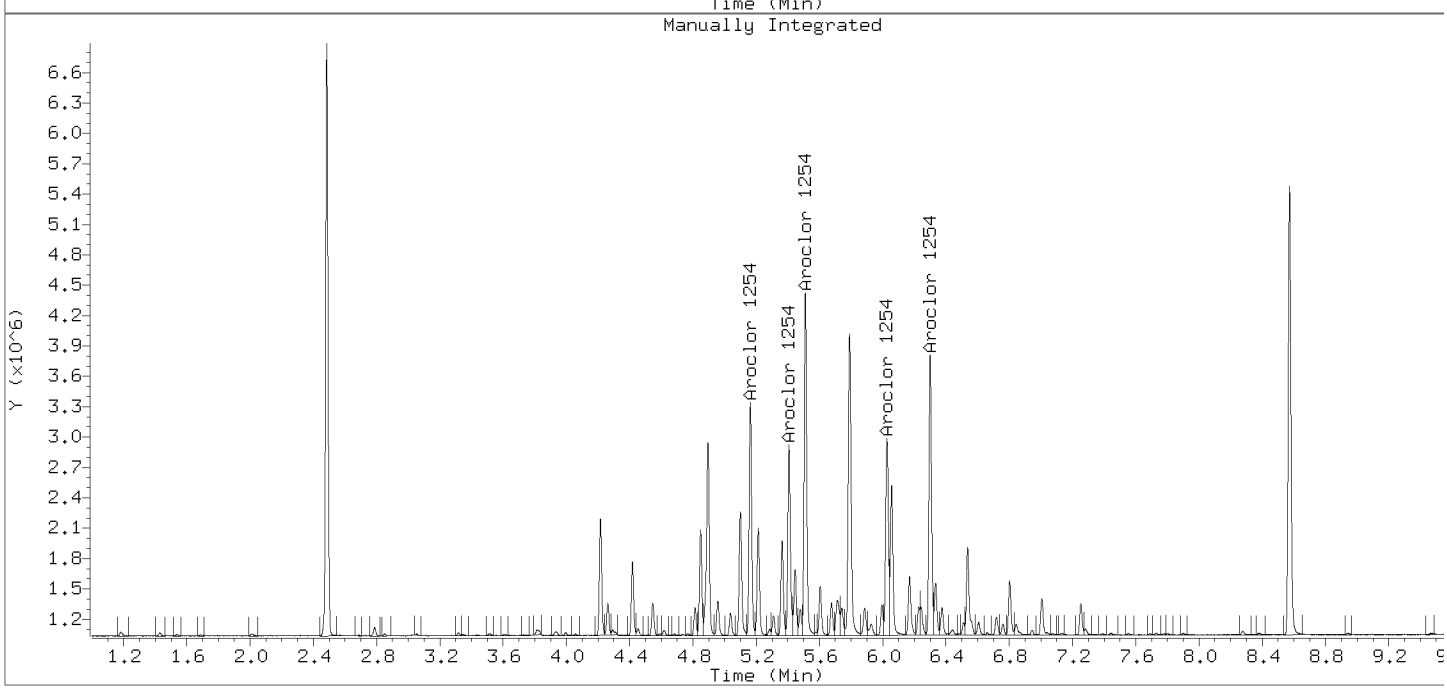
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618050.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL3C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA
Aroclor 1254	2551487	2560292	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	20338	17643	0.867	0.02		
1.428	65922	60336	0.915	0.07		
1.538	31776	24460	0.770	0.03		
2.485	11777090	11571932	0.983	14.42		
2.787	164077	161759	0.986	0.19		
2.852	35610	28522	0.801	0.04		
3.052	34848	31099	0.892	0.04		
3.318	49721	48315	0.972	0.05		
3.345	27672	27798	1.005	0.03		
3.434	12631	8647	0.685	0.01		
3.512	47159	33510	0.711	0.05		
3.609	31888	32717	1.026	0.03		
3.732	12093	11883	0.983	0.01		
3.757	10828	11345	1.048	0.01		
3.814	107287	73196	0.682	0.12		
3.934	94015	65238	0.694	0.11		
3.996	37751	35743	0.947	0.04		
4.059	25966	21513	0.829	0.03		
4.136	10670	12088	1.133	0.01		
4.215	1826293	1728963	0.947	2.16		
4.262	495863	484615	0.977	0.58		
4.293	82438	62200	0.755	0.09		
4.418	1148007	1108250	0.965	1.35		
4.454	124829	105675	0.847	0.14		
4.545	520797	506348	0.972	0.61		
4.592	22494	21617	0.961	0.02		
4.617	91512	86993	0.951	0.10		
4.682	29611	23905	0.807	0.03		
4.738	13639	11326	0.830	0.01		
4.768	31653	29681	0.938	0.03		
4.813	436264	431646	0.989	0.51		
4.848	1661944	1593892	0.959	1.96		
4.895	3639982	2884202	0.792	4.30		
4.958	608805	546410	0.898	0.72		
5.038	362095	340028	0.939	0.42		
5.100	2123049	1825949	0.860	2.51		
5.163	3886482	3507162	0.902	4.59	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.213	1776836	1628217	0.916	2.10	
5.284	96560	90819	0.941	0.11	
5.309	325641	297506	0.914	0.38	
5.364	1556302	1425397	0.916	1.84	
5.407	3251705	3006981	0.925	3.84	7 Aroclor 1254
5.446	1124584	1040705	0.925	1.33	
5.479	401904	378797	0.943	0.47	
5.510	5821617	5399486	0.927	6.88	7 Aroclor 1254
5.575	58238	53397	0.917	0.06	
5.604	831473	749483	0.901	0.98	
5.676	530127	502418	0.948	0.62	
5.713	822568	545715	0.663	0.97	
5.742	512983	417833	0.815	0.60	
5.791	5870686	4701193	0.801	6.94	
5.885	522465	412152	0.789	0.61	
5.927	275865	173515	0.629	0.32	
5.994	487921	462752	0.948	0.57	
6.027	3710616	3100778	0.836	4.38	7 Aroclor 1254
6.057	2650507	2221374	0.838	3.13	
6.169	1066850	928060	0.870	1.26	
6.228	444612	436676	0.982	0.52	
6.243	480121	416542	0.868	0.56	
6.300	4897868	4117516	0.841	5.79	7 Aroclor 1254
6.334	897566	789045	0.879	1.06	
6.374	507098	430542	0.849	0.59	
6.441	124903	73312	0.587	0.14	
6.487	27937	25771	0.922	0.03	
6.510	183907	185808	1.010	0.21	
6.536	1677948	1278798	0.762	1.98	
6.605	242982	201019	0.827	0.28	
6.661	41322	38186	0.924	0.04	
6.719	331298	275607	0.832	0.39	
6.758	194741	175185	0.900	0.23	
6.802	936736	798625	0.853	1.10	
6.844	260030	171830	0.661	0.30	
6.907	13593	12018	0.884	0.01	
6.942	85729	72281	0.843	0.10	
7.006	675731	578164	0.856	0.79	
7.077	32184	26109	0.811	0.03	
7.122	28643	17643	0.616	0.03	
7.253	534471	485017	0.907	0.63	
7.282	121561	99258	0.817	0.14	
7.331	10539	7109	0.675	0.01	
7.390	27785	21939	0.790	0.03	
7.442	42859	32217	0.752	0.05	
7.555	39938	25488	0.638	0.04	
7.691	21961	21683	0.987	0.02	
7.727	55370	42642	0.770	0.06	
7.799	40475	27058	0.669	0.04	
7.900	38857	28824	0.742	0.04	
8.033	10655	8635	0.810	0.01	
8.277	84696	72245	0.853	0.10	
8.379	22615	16331	0.722	0.02	
8.571	9861374	8409353	0.853	11.66	
8.942	30130	19515	0.648	0.03	
9.085	14868	10676	0.718	0.01	
9.470	49128	26719	0.544	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.961	49432	33887	0.686	0.05	
	84540213	74622457		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	3886481	0.80000	0.74	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	3251705	0.80000	0.76	0.00- 20.00	83.67	BA
5.509	5.510	-0.001	5821617	0.80000	0.75	0.00- 20.00	149.79	BA
6.027	6.027	0.000	3710615	0.80000	0.76	0.00- 20.00	95.47	BA
6.299	6.299	0.000	4897867	0.80000	0.75	0.00- 20.00	126.02	BA
Average of Peak Amounts =					0.75200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

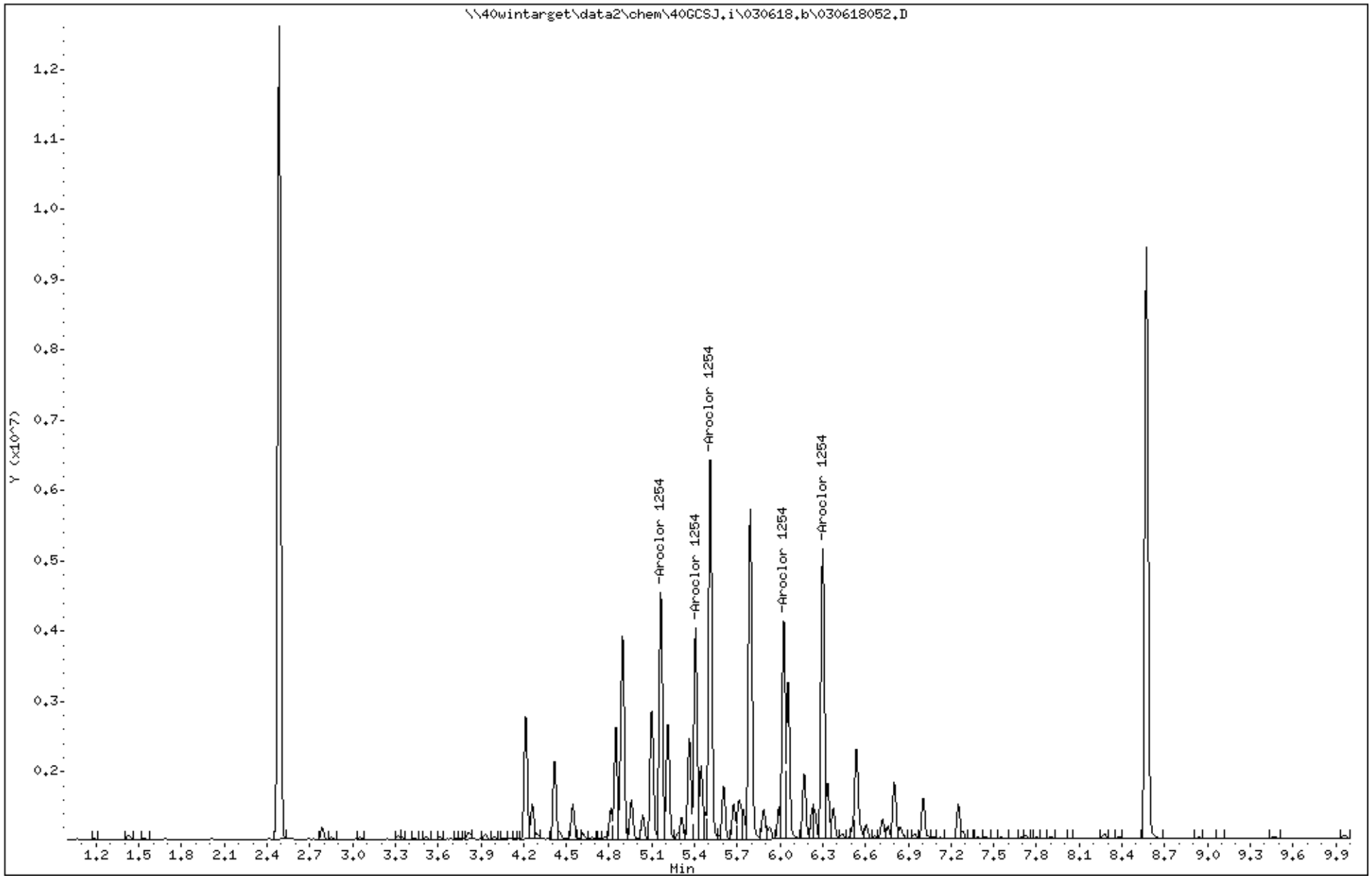
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

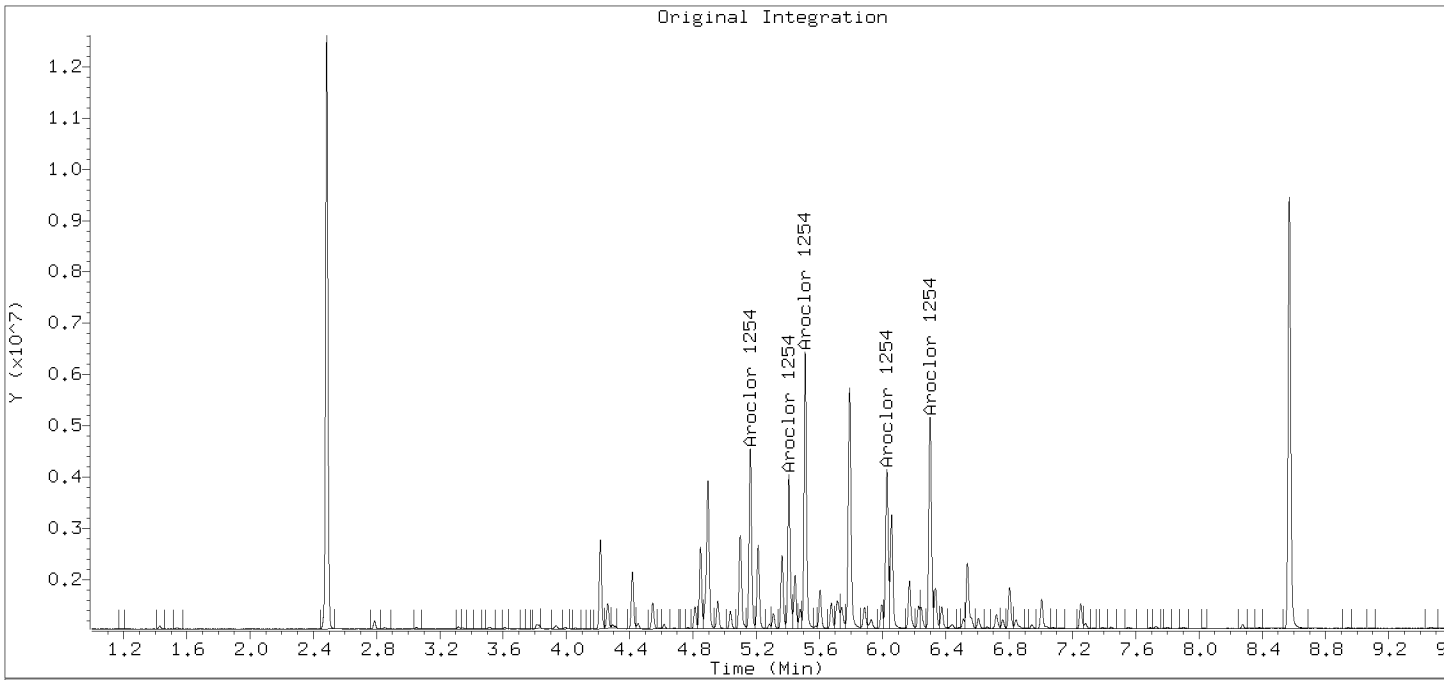
Operator: BLM

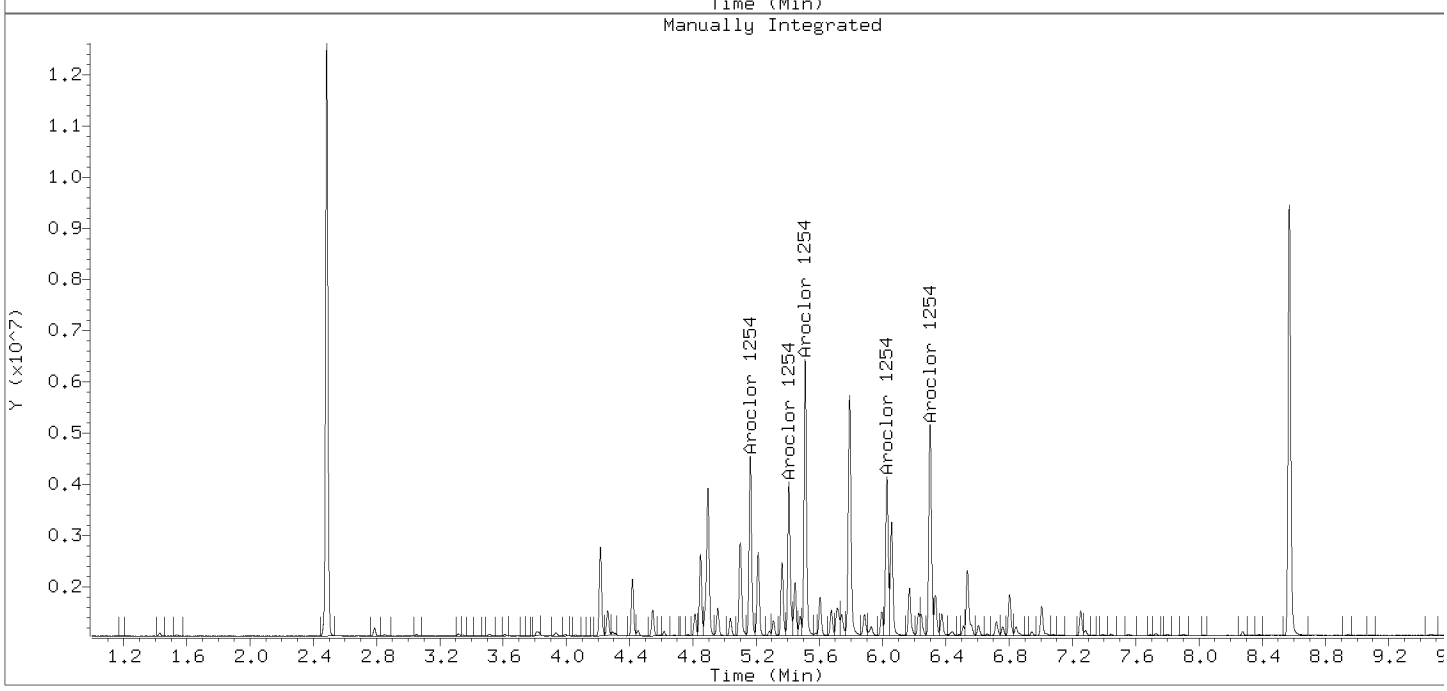
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618052.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL4C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA
Aroclor 1254	3881378	3886481	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15243	11962	0.785	0.01		
1.428	96747	89041	0.920	0.08		
1.540	40825	35144	0.861	0.03		
1.682	9327	8894	0.954	0.00		
2.008	10288	9685	0.941	0.00		
2.412	10350	7112	0.687	0.00		
2.485	17725886	17260144	0.974	16.66		
2.787	243100	236365	0.972	0.22		
2.851	36673	32993	0.900	0.03		
3.053	49195	43436	0.883	0.04		
3.319	55642	53004	0.953	0.05		
3.344	37001	30263	0.818	0.03		
3.514	61454	41534	0.676	0.05		
3.611	48883	46459	0.950	0.04		
3.734	9700	13664	1.409	0.00		
3.755	14530	9896	0.681	0.01		
3.814	160653	100699	0.627	0.14		
3.935	113785	77754	0.683	0.10		
3.993	48360	45579	0.942	0.04		
4.058	31144	26153	0.840	0.02		
4.136	14642	14082	0.962	0.01		
4.215	2246411	2105306	0.937	2.04		
4.262	624542	621927	0.996	0.56		
4.292	114086	82473	0.723	0.10		
4.418	1403386	1353229	0.964	1.27		
4.453	133440	127351	0.954	0.12		
4.546	635904	613877	0.965	0.57		
4.594	11699	17033	1.456	0.01		
4.617	92187	94751	1.028	0.08		
4.683	32935	28854	0.876	0.03		
4.735	16261	13245	0.815	0.01		
4.770	37428	36501	0.975	0.03		
4.814	542039	547513	1.010	0.49		
4.848	2045079	1950354	0.954	1.86		
4.896	4464777	3447952	0.772	4.07		
4.957	749670	674930	0.900	0.68		
5.037	447740	427307	0.954	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	2603383	2206600	0.848	2.37	
5.163	4761607	4381606	0.920	4.34	7 Aroclor 1254
5.212	2175024	1931040	0.888	1.98	
5.284	116466	109643	0.941	0.10	
5.309	404504	368472	0.911	0.36	
5.364	1900530	1737928	0.914	1.73	
5.407	4016995	3641293	0.906	3.66	7 Aroclor 1254
5.446	1380053	1254397	0.909	1.25	
5.477	506726	475165	0.938	0.46	
5.511	7207531	6391511	0.887	6.57	7 Aroclor 1254
5.577	67153	63150	0.940	0.06	
5.605	1023947	924404	0.903	0.93	
5.676	661316	643905	0.974	0.60	
5.714	1030048	680082	0.660	0.93	
5.740	635529	535004	0.842	0.57	
5.792	7230180	5601138	0.775	6.59	
5.886	645954	520462	0.806	0.58	
5.927	344827	212793	0.617	0.31	
5.995	613062	588236	0.960	0.55	
6.027	4591491	3986858	0.868	4.18	7 Aroclor 1254
6.056	3223664	2733295	0.848	2.93	
6.169	1328008	1109796	0.836	1.21	
6.228	1042954	573707	0.550	0.95	
6.300	6047377	5045174	0.834	5.51	7 Aroclor 1254
6.334	1117787	991343	0.887	1.01	
6.375	640740	547643	0.855	0.58	
6.437	148401	91961	0.620	0.13	
6.511	228443	228993	1.002	0.20	
6.537	2072914	1543722	0.745	1.89	
6.605	305742	240734	0.787	0.27	
6.662	54744	45287	0.827	0.04	
6.719	410032	340851	0.831	0.37	
6.759	242534	215295	0.888	0.22	
6.803	1169372	1018756	0.871	1.06	
6.844	311718	214607	0.688	0.28	
6.945	110710	91840	0.830	0.10	
7.006	832801	710785	0.853	0.75	
7.076	39055	35215	0.902	0.03	
7.124	42412	24716	0.583	0.03	
7.253	667072	625157	0.937	0.60	
7.283	149721	120610	0.806	0.13	
7.392	31016	25016	0.807	0.02	
7.444	53853	38361	0.712	0.04	
7.554	43717	29353	0.671	0.03	
7.693	32182	28611	0.889	0.02	
7.731	75133	56693	0.755	0.06	
7.801	54585	36993	0.678	0.04	
7.902	45857	33249	0.725	0.04	
8.278	123330	103442	0.839	0.11	
8.379	26036	20581	0.790	0.02	
8.572	14526385	12123277	0.835	13.24	
8.943	32605	19326	0.593	0.02	
9.087	19995	15238	0.762	0.01	
9.471	36056	22732	0.630	0.03	
9.962	37005	22458	0.607	0.03	
	109671291	95714970		100.000	

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	4761607	1.00000	0.91	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	4016994	1.00000	0.93	0.00- 20.00	84.36	BA
5.510	5.510	0.000	7207530	1.00000	0.93	0.00- 20.00	151.37	BA
6.027	6.027	0.000	4591491	1.00000	0.94	0.00- 20.00	96.43	BA
6.299	6.299	0.000	6047377	1.00000	0.93	0.00- 20.00	127.00	BA
Average of Peak Amounts =					0.92800			

QC Flag Legend

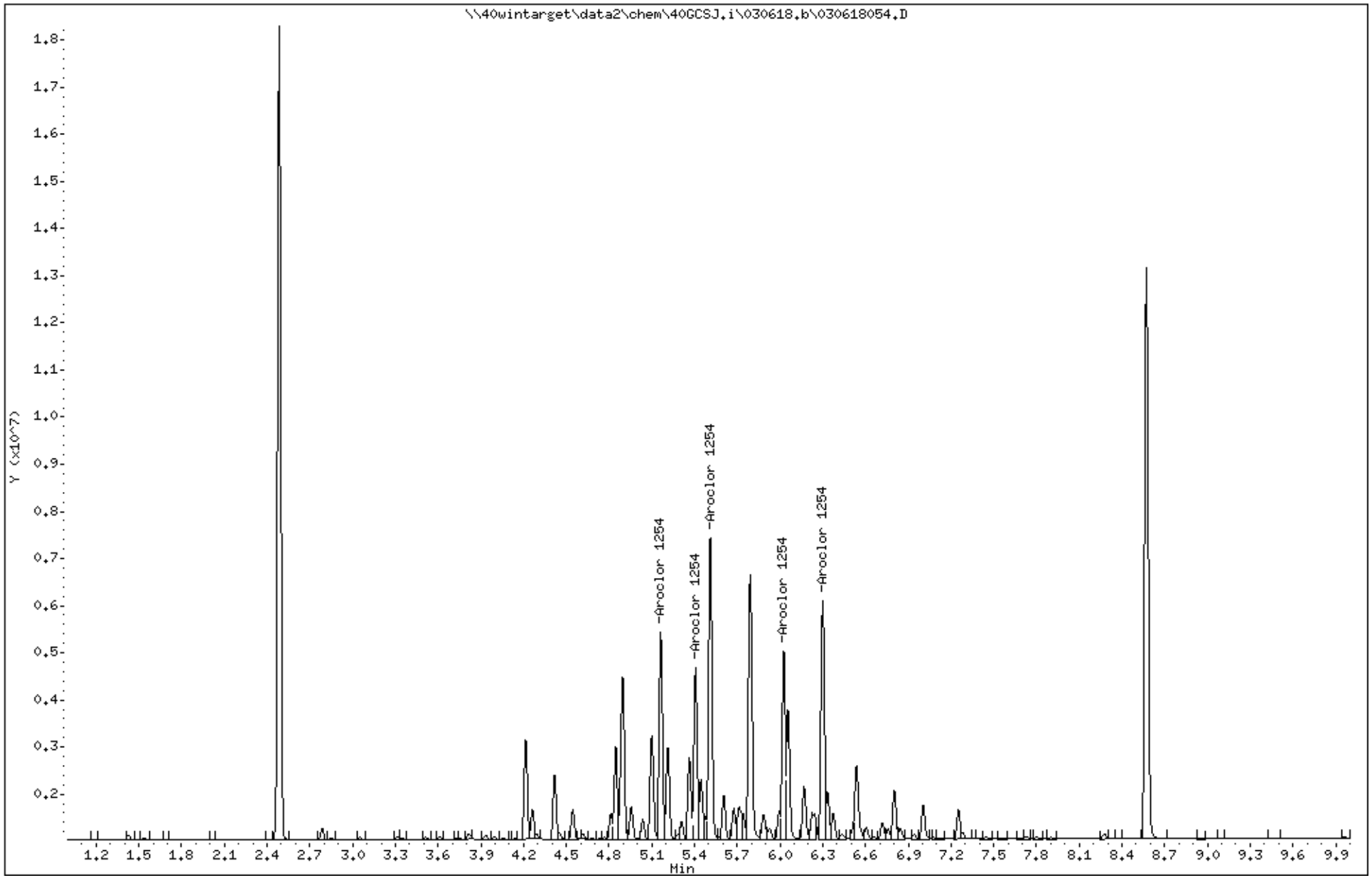
M - Compound response manually integrated.

Review Codes Legend

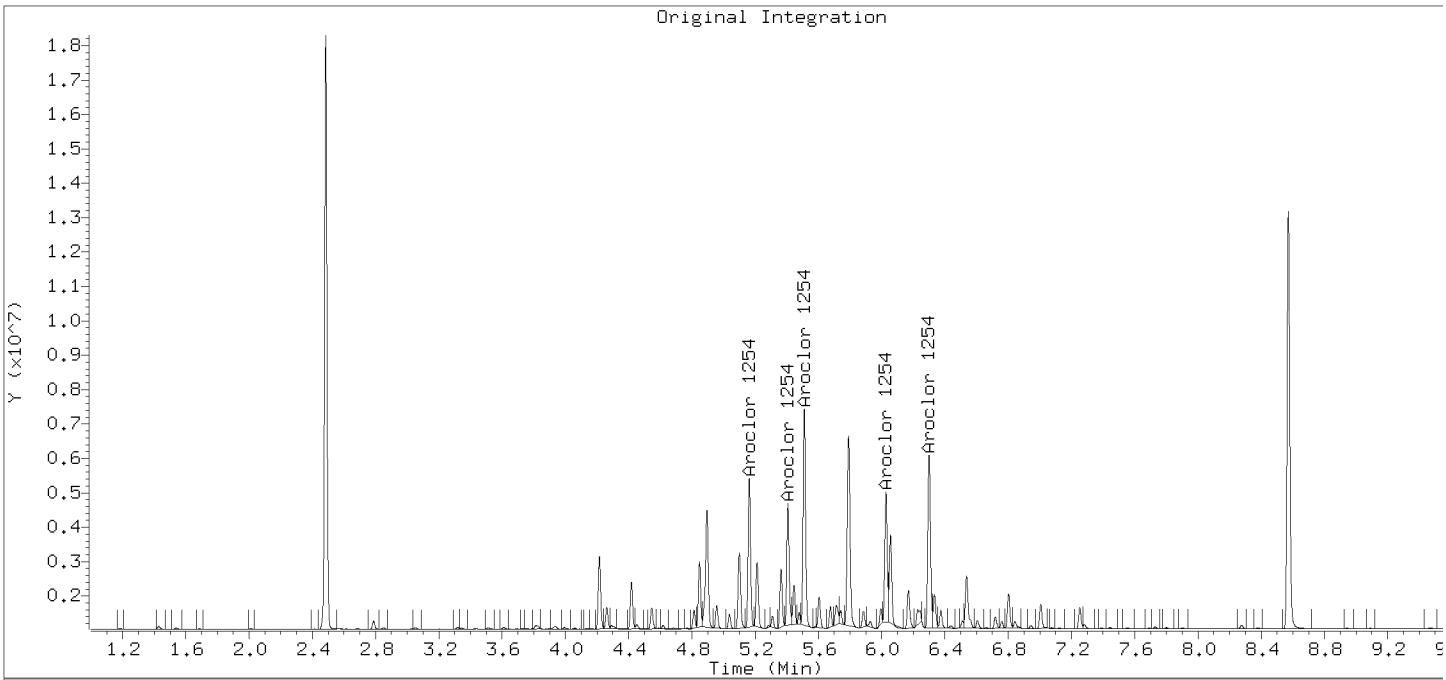
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

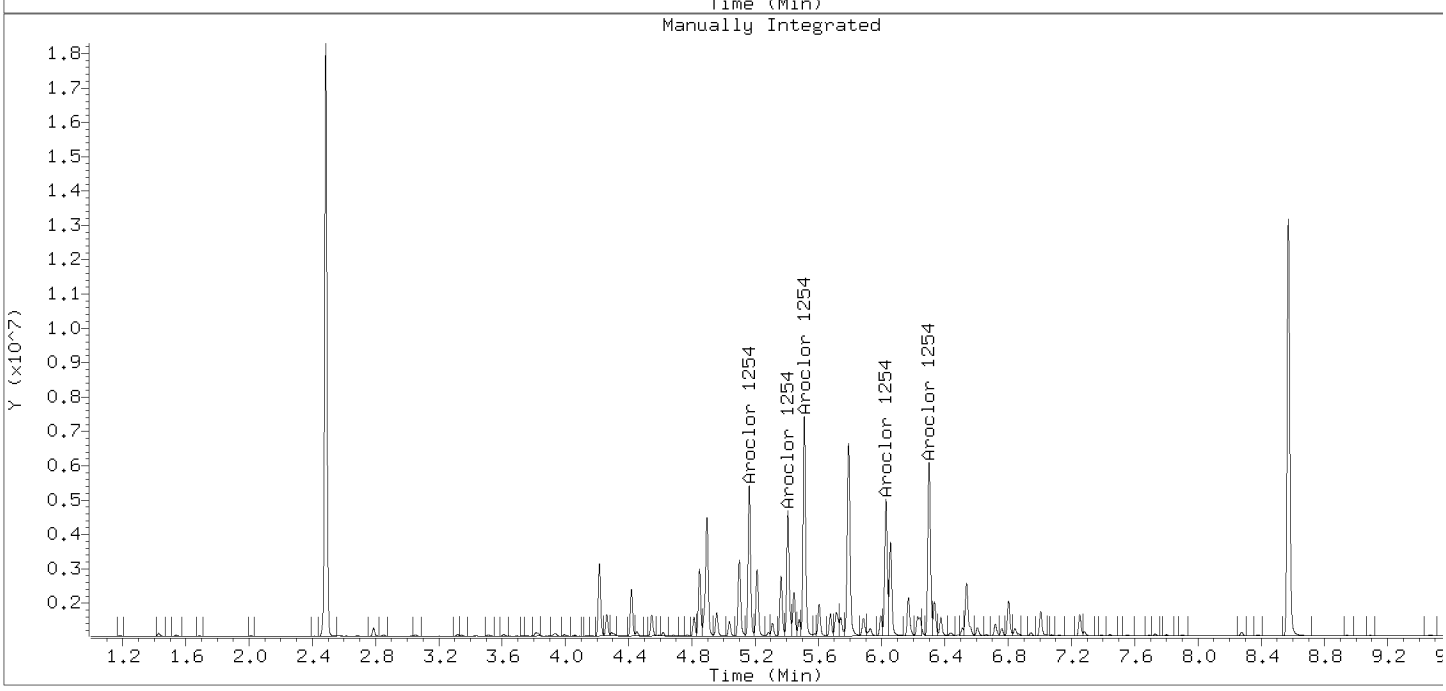
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618054.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 18:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CAL5C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA
Aroclor 1254	4578985	4761607	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	75769	59956	0.791	0.39		
1.428	18267	12499	0.684	0.09		
1.686	19257	17034	0.885	0.10		
2.010	41793	33612	0.804	0.22		
2.405	34035	25626	0.753	0.17		
2.485	1265501	1240700	0.980	7.14	$ 2 Tetrachloro-m-xylene	
2.687	45905	38796	0.845	0.24		
2.791	69017	64076	0.928	0.36		
2.850	244595	230348	0.942	1.29		
3.030	26125	23948	0.917	0.13		
3.053	41274	35596	0.862	0.21		
3.319	334670	316544	0.946	1.76	5 Aroclor 1016	BA
3.345	198504	179987	0.907	1.04		
3.434	61488	51551	0.838	0.32		
3.514	336132	236249	0.703	1.77	5 Aroclor 1016	BA
3.732	87942	87307	0.993	0.46		
3.756	56569	52611	0.930	0.29		
3.827	961910	568396	0.591	5.07	5 Aroclor 1016	BA
3.929	407299	336226	0.826	2.14	5 Aroclor 1016	BA
3.995	291299	270962	0.930	1.53	5 Aroclor 1016	BA
4.057	91678	78986	0.862	0.48		
4.137	38165	30755	0.806	0.20		
4.215	245118	232129	0.947	1.29		
4.262	215370	204306	0.949	1.13		
4.294	97069	97854	1.008	0.51		
4.311	121075	108897	0.899	0.63		
4.418	296094	277838	0.938	1.56		
4.452	228098	168917	0.741	1.20		
4.546	376428	345686	0.918	1.98		
4.618	89285	79390	0.889	0.47		
4.725	18650	14732	0.790	0.09		
4.768	15175	13986	0.922	0.08		
4.814	70800	67479	0.953	0.37		
4.847	108064	102590	0.949	0.57		
4.895	365187	264463	0.724	1.92		
4.959	28108	18371	0.654	0.14		
5.037	24776	19872	0.802	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	75151	62358	0.830	0.39	
5.163	285696	262413	0.919	1.50	
5.214	17586	14232	0.809	0.09	
5.362	21031	19306	0.918	0.11	
5.407	87223	72021	0.826	0.46	
5.479	114689	109517	0.955	0.60	
5.511	195439	178257	0.912	1.03	
5.676	287789	270234	0.939	1.51	
5.710	226208	125913	0.557	1.19	
5.787	739489	648842	0.877	3.90	
5.884	50381	44276	0.879	0.26	
5.931	25620	20410	0.797	0.13	
5.994	121209	109219	0.901	0.63	
6.030	272564	261055	0.958	1.43	
6.056	810958	700847	0.864	4.27	
6.170	497456	309560	0.622	2.62	
6.257	116495	69428	0.596	0.61	
6.300	956999	807332	0.844	5.04	8 Aroclor 1260
6.335	137669	122786	0.892	0.72	
6.372	38735	30140	0.778	0.20	
6.433	122734	90057	0.734	0.64	
6.491	23519	28668	1.219	0.12	
6.511	474348	427351	0.901	2.50	
6.534	82021	92139	1.123	0.43	
6.562	294717	250391	0.850	1.55	
6.608	31351	24800	0.791	0.16	
6.660	93675	84477	0.902	0.49	
6.719	499348	457647	0.916	2.63	
6.760	283474	256610	0.905	1.49	
6.805	227703	192558	0.846	1.20	
6.837	47833	39344	0.823	0.25	
6.867	20777	22616	1.089	0.10	
6.913	37481	33795	0.902	0.19	
6.945	99494	87238	0.877	0.52	
7.006	1074661	952659	0.886	5.66	8 Aroclor 1260
7.034	85801	79294	0.924	0.45	
7.076	39830	29520	0.741	0.21	
7.124	76029	48693	0.640	0.40	
7.253	505238	443533	0.878	2.66	8 Aroclor 1260
7.283	161808	121906	0.753	0.85	
7.368	14051	20223	1.439	0.07	
7.390	249151	219715	0.882	1.31	
7.444	313103	259788	0.830	1.65	8 Aroclor 1260
7.555	28224	19645	0.696	0.14	
7.692	126890	112403	0.886	0.66	
7.727	24298	19768	0.814	0.12	
7.780	47376	23329	0.492	0.24	
7.902	285359	230087	0.806	1.50	8 Aroclor 1260
7.967	28076	18551	0.661	0.14	
8.275	73573	62778	0.853	0.38	
8.382	33580	24066	0.717	0.17	
8.573	1252235	1038307	0.829	6.60	$ 12 Decachlorobiphenyl
8.943	22477	18768	0.835	0.11	
9.467	21684	17832	0.822	0.11	
9.963	27944	21020	0.752	0.14	
	18954741	16115997		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	1265501	0.01000	0.010			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	334670	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	336131	0.10000	0.11	0.00- 20.00	100.44	BA
3.826	3.826	0.000	961909	0.10000	0.11	0.00- 20.00	287.42	BA
3.928	3.929	-0.001	407299	0.10000	0.11	0.00- 20.00	121.70	BA
3.995	3.994	0.001	291298	0.10000	0.11	0.00- 20.00	87.04	BA
Average of Peak Amounts =					0.11000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	956999	0.10000	0.11	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	1074661	0.10000	0.11	0.00- 20.00	112.29	CO
7.252	7.251	0.001	505237	0.10000	0.10	0.00- 20.00	52.79	CO
7.444	7.443	0.001	313102	0.10000	0.11	0.00- 20.00	32.72	CO
7.902	7.901	0.001	285359	0.10000	0.11	0.00- 20.00	29.82	CO
Average of Peak Amounts =					0.10800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	1252234	0.01000	0.011			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

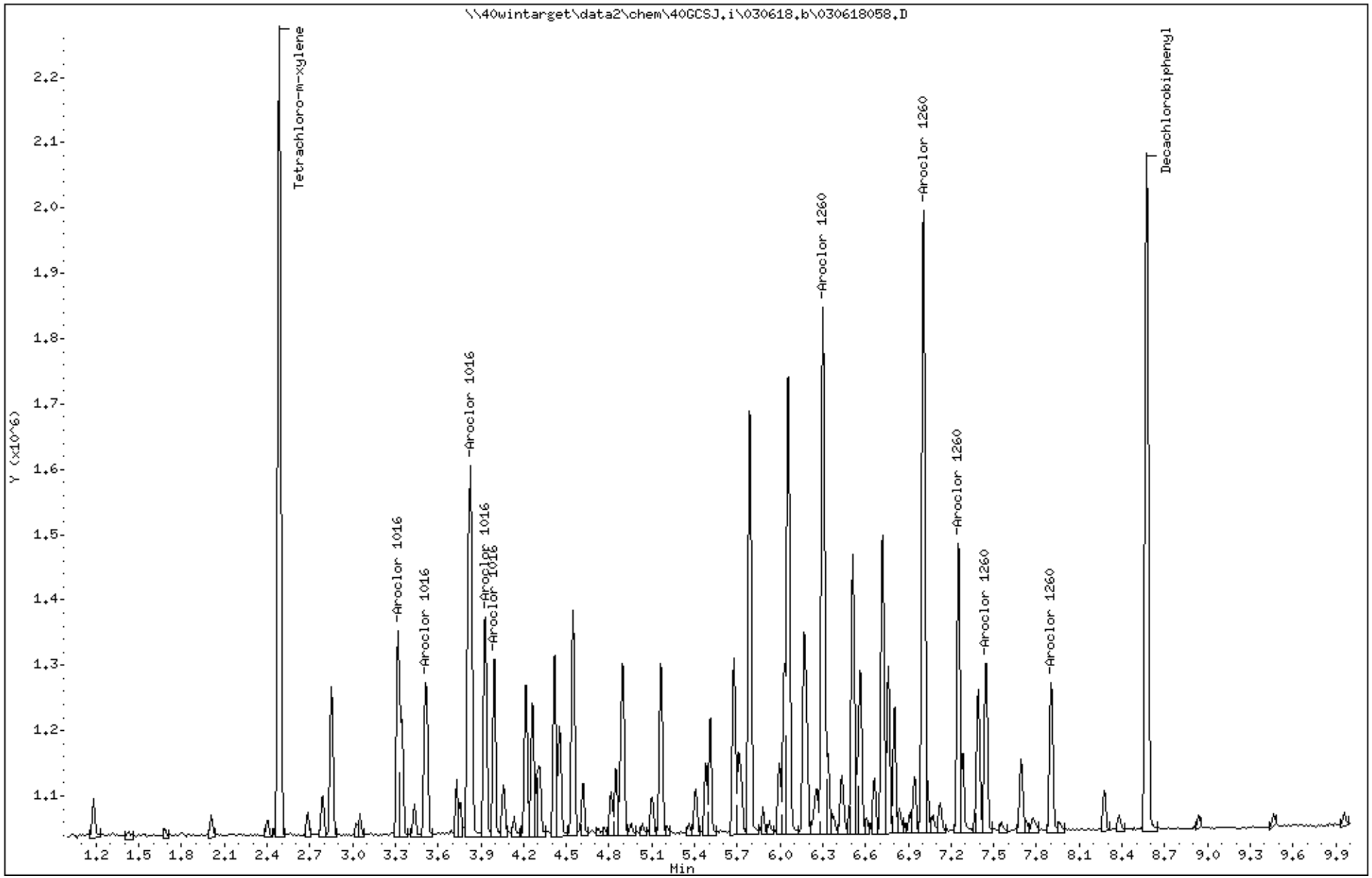
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

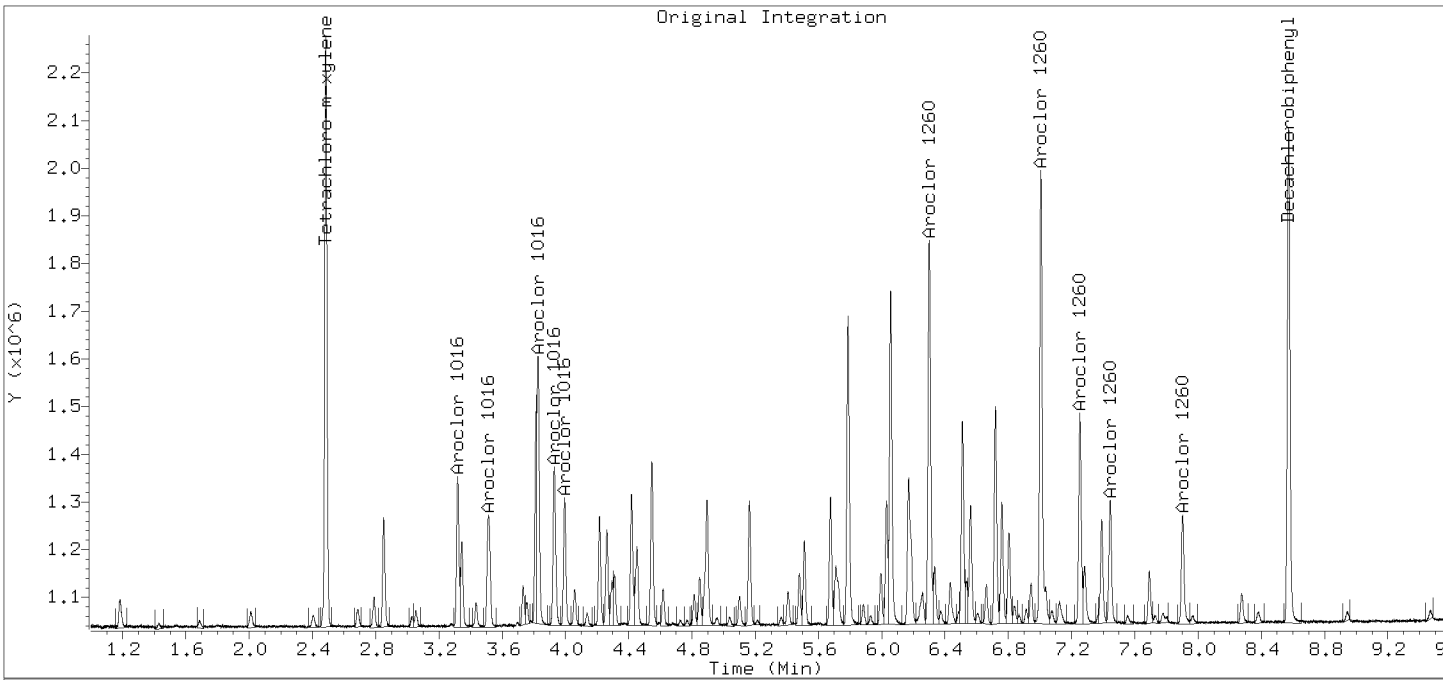
Operator: BLM

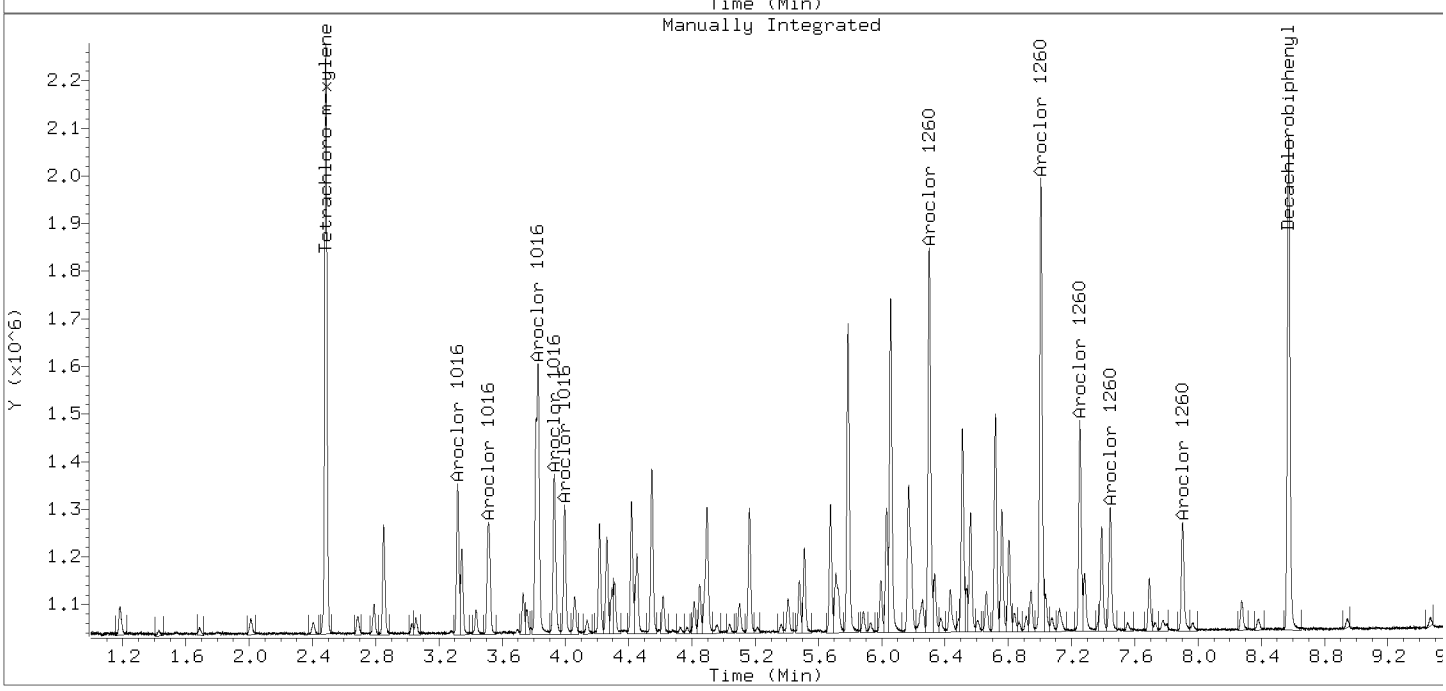
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618058.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL1A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1016	331398	334670	BA
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Aroclor 1260	948946	956999	CO
Tetrachloro-m-xylene	1265501	1265501	
Decachlorobiphenyl	1252234	1252234	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	55176	41178	0.746	0.15		
1.429	21015	18585	0.884	0.05		
1.802	12282	8623	0.702	0.03		
2.011	32498	25901	0.797	0.09		
2.404	67139	48192	0.718	0.18		
2.484	2499487	2410686	0.964	7.40	$ 2 Tetrachloro-m-xylene	
2.687	94590	70872	0.749	0.26		
2.789	132356	122708	0.927	0.36		
2.851	469229	448920	0.957	1.30		
3.028	20462	19526	0.954	0.05		
3.054	77836	65563	0.842	0.21		
3.280	13769	10123	0.735	0.03		
3.318	654061	624883	0.955	1.81	5 Aroclor 1016	BA
3.345	373017	342479	0.918	1.03		
3.436	104520	94613	0.905	0.28		
3.513	645015	465357	0.721	1.78	5 Aroclor 1016	BA
3.614	11902	11206	0.942	0.03		
3.697	20307	21558	1.062	0.05		
3.732	166970	164519	0.985	0.46		
3.756	105123	106344	1.012	0.29		
3.827	1858995	1113513	0.599	5.15	5 Aroclor 1016	BA
3.929	794562	664351	0.836	2.20	5 Aroclor 1016	BA
3.995	538852	516167	0.958	1.49	5 Aroclor 1016	BA
4.059	153652	141937	0.924	0.42		
4.137	64387	55721	0.865	0.17		
4.215	463064	450944	0.974	1.28		
4.261	411934	395299	0.960	1.14		
4.293	176764	178584	1.010	0.48		
4.310	214978	205952	0.958	0.59		
4.368	18687	13075	0.700	0.05		
4.417	569211	550417	0.967	1.57		
4.452	428711	317474	0.741	1.18		
4.546	747149	680932	0.911	2.07		
4.617	172002	154821	0.900	0.47		
4.675	18051	11895	0.659	0.05		
4.728	31765	25328	0.797	0.08		
4.768	26719	24282	0.909	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.814	134761	128509	0.954	0.37	
4.849	207904	199310	0.959	0.57	
4.895	688062	504752	0.734	1.90	
4.955	49261	36191	0.735	0.13	
5.037	41204	35409	0.859	0.11	
5.101	147468	124667	0.845	0.40	
5.163	553608	515848	0.932	1.53	
5.211	28275	23336	0.825	0.07	
5.364	42478	33276	0.783	0.11	
5.406	154225	140226	0.909	0.42	
5.478	222337	212066	0.954	0.61	
5.510	375280	336790	0.897	1.03	
5.676	557330	520345	0.934	1.54	
5.710	420039	227627	0.542	1.16	
5.786	1434098	1216006	0.848	3.97	
5.881	99936	84741	0.848	0.27	
5.931	52909	37411	0.707	0.14	
5.994	236171	220443	0.933	0.65	
6.029	525050	521852	0.994	1.45	
6.055	1579576	1350262	0.855	4.37	
6.170	972431	621038	0.639	2.69	
6.256	228441	130747	0.572	0.63	
6.301	1864709	1458728	0.782	5.16	8 Aroclor 1260
6.335	262275	234816	0.895	0.72	
6.375	82478	55139	0.669	0.22	
6.433	206268	167261	0.811	0.57	
6.487	40545	49125	1.212	0.11	
6.510	932649	849322	0.911	2.58	
6.536	166259	180771	1.087	0.46	
6.561	564443	492928	0.873	1.56	
6.605	64137	48977	0.764	0.17	
6.661	181400	157714	0.869	0.50	
6.719	981159	893423	0.911	2.71	
6.759	544707	485293	0.891	1.50	
6.803	436009	386944	0.887	1.20	
6.839	89543	74514	0.832	0.24	
6.868	45779	37984	0.830	0.12	
6.913	64712	61547	0.951	0.17	
6.943	192241	174196	0.906	0.53	
7.006	2085870	1795515	0.861	5.78	8 Aroclor 1260
7.034	145420	142383	0.979	0.40	
7.075	69040	53643	0.777	0.19	
7.122	116391	79463	0.683	0.32	
7.252	997245	885990	0.888	2.76	8 Aroclor 1260
7.284	293602	234376	0.798	0.81	
7.390	506113	423868	0.837	1.40	
7.444	607583	530361	0.873	1.68	8 Aroclor 1260
7.553	47904	35161	0.734	0.13	
7.692	248075	211779	0.854	0.68	
7.729	41616	33711	0.810	0.11	
7.777	25315	19290	0.762	0.07	
7.800	38231	26898	0.704	0.10	
7.900	543647	451004	0.830	1.50	8 Aroclor 1260
7.966	45855	31122	0.679	0.12	
8.275	140866	122403	0.869	0.39	
8.382	29898	21612	0.723	0.08	
8.572	2284568	1922634	0.842	6.33	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.945	25225	17796	0.705	0.06	
9.471	34351	19751	0.575	0.09	
9.964	23512	15629	0.665	0.06	
	36086723	30726451		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2499486	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	654060	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	645015	0.20000	0.21	0.00- 20.00	98.62	BA
3.826	3.826	0.000	1858994	0.20000	0.21	0.00- 20.00	284.22	BA
3.929	3.929	0.000	794562	0.20000	0.21	0.00- 20.00	121.48	BA
3.994	3.994	0.000	538852	0.20000	0.21	0.00- 20.00	82.39	BA
Average of Peak Amounts =					0.21000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	1864709	0.20000	0.21	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	2085870	0.20000	0.21	0.00- 20.00	111.86	CO
7.252	7.251	0.001	997245	0.20000	0.21	0.00- 20.00	53.48	CO
7.443	7.443	0.000	607583	0.20000	0.21	0.00- 20.00	32.58	CO
7.900	7.901	-0.001	543647	0.20000	0.21	0.00- 20.00	29.15	CO
Average of Peak Amounts =					0.21000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	2284567	0.02000	0.021			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

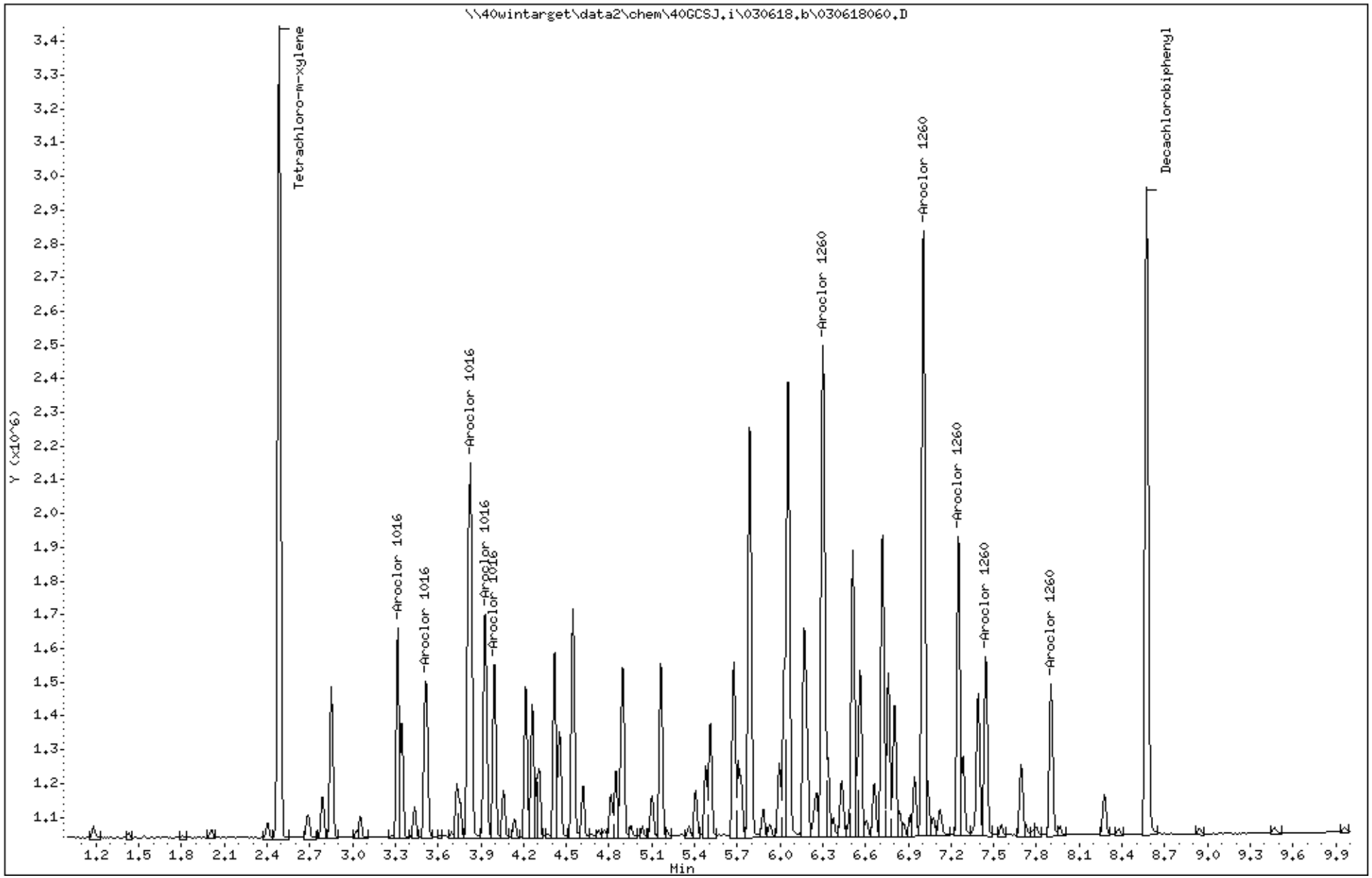
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

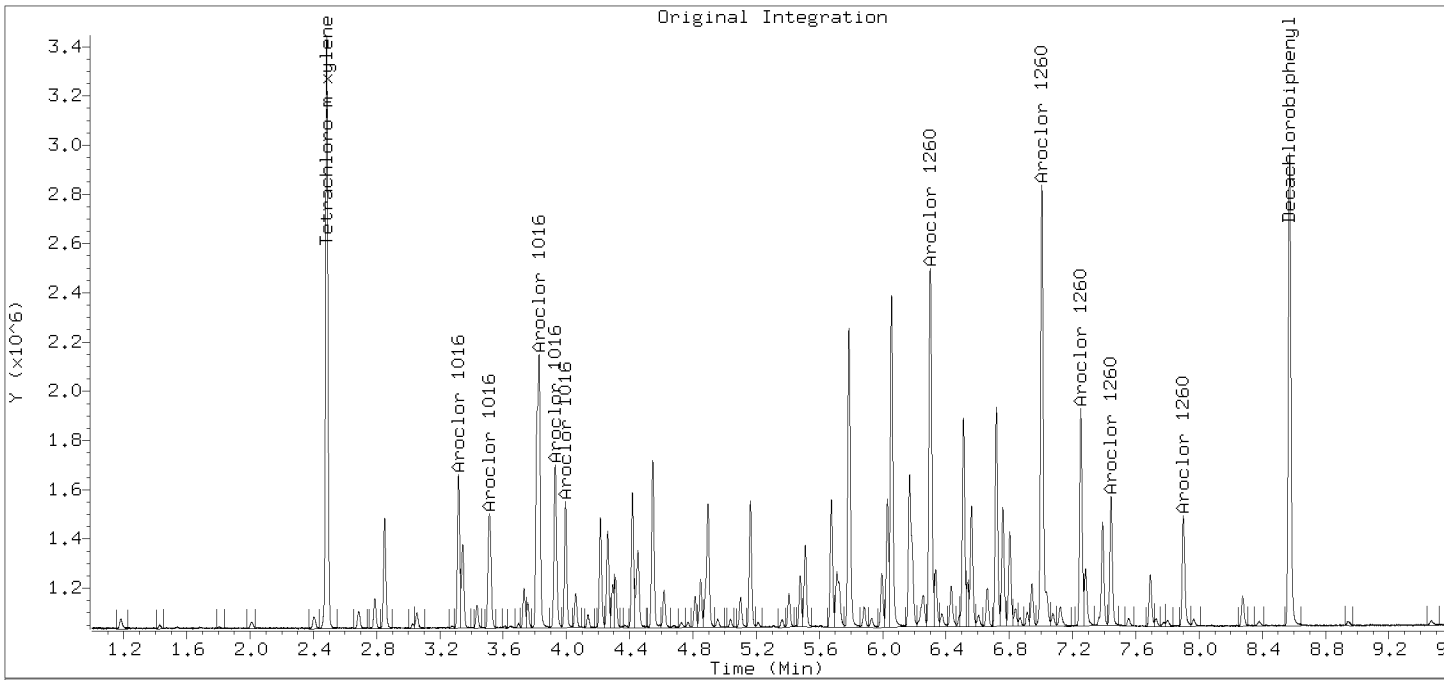
Operator: BLM

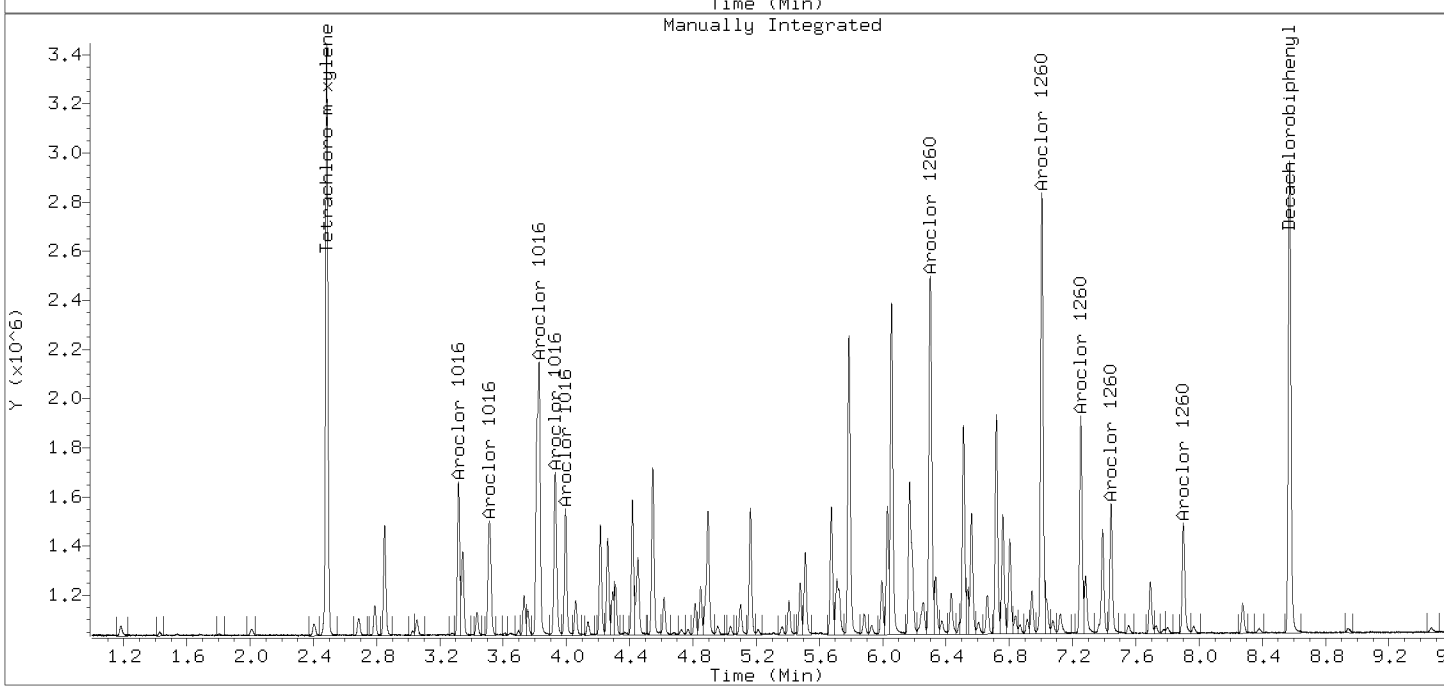
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618060.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL2A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1016	649890	654060	BA
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Aroclor 1260	1856530	1864709	CO
Tetrachloro-m-xylene	2499486	2499486	
Decachlorobiphenyl	2284567	2284567	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	73481	56448	0.768	0.08		
1.429	38001	32608	0.858	0.04		
1.537	20915	15456	0.739	0.02		
1.685	19161	19298	1.007	0.02		
1.803	18038	14682	0.814	0.02		
2.010	53413	35717	0.669	0.06		
2.404	140743	111047	0.789	0.16		
2.484	6057237	5892667	0.973	7.63	$ 2 Tetrachloro-m-xylene	
2.687	201241	167032	0.830	0.23		
2.789	304363	285330	0.937	0.35		
2.851	1109963	1029461	0.927	1.31		
3.031	24750	24475	0.989	0.02		
3.055	178487	159145	0.892	0.21		
3.278	26481	21063	0.795	0.03		
3.318	1513499	1414991	0.935	1.78	5 Aroclor 1016	BA
3.345	880540	822356	0.934	1.04		
3.434	247038	220109	0.891	0.29		
3.513	1532387	1090208	0.711	1.81	5 Aroclor 1016	BA
3.611	27202	25734	0.946	0.03		
3.647	29738	19736	0.664	0.03		
3.697	43175	42217	0.978	0.05		
3.732	381498	383355	1.005	0.45		
3.756	273430	243142	0.889	0.32		
3.826	4314630	2564491	0.594	5.10	5 Aroclor 1016	BA
3.929	1875063	1563785	0.834	2.21	5 Aroclor 1016	BA
3.994	1275640	1205112	0.945	1.50	5 Aroclor 1016	BA
4.059	356271	321194	0.902	0.42		
4.137	142724	126589	0.887	0.16		
4.215	1091767	1043921	0.956	1.29		
4.261	983477	936778	0.953	1.16		
4.293	419201	426725	1.018	0.49		
4.310	507212	485823	0.958	0.59		
4.372	34974	24662	0.705	0.04		
4.418	1378494	1285521	0.933	1.63		
4.452	991992	777670	0.784	1.17		
4.545	1720081	1585302	0.922	2.03		
4.591	26254	25937	0.988	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	390639	352630	0.903	0.46	
4.680	45442	27438	0.604	0.05	
4.728	65437	52451	0.802	0.07	
4.768	60652	53450	0.881	0.07	
4.813	315747	306151	0.970	0.37	
4.848	490062	474651	0.969	0.57	
4.895	1609352	1151281	0.715	1.90	
4.957	109800	84138	0.766	0.12	
5.038	90170	81334	0.902	0.10	
5.101	330531	287340	0.869	0.39	
5.162	1311328	1213988	0.926	1.55	
5.213	62406	49170	0.788	0.07	
5.308	18942	13697	0.723	0.02	
5.364	102693	89831	0.875	0.12	
5.407	358555	326663	0.911	0.42	
5.444	17182	16887	0.983	0.02	
5.478	520000	499018	0.960	0.61	
5.510	901921	830532	0.921	1.06	
5.574	21617	18709	0.865	0.02	
5.607	22890	17618	0.770	0.02	
5.675	1323137	1193469	0.902	1.56	
5.710	966061	548770	0.568	1.14	
5.786	3269149	2832194	0.866	3.86	
5.883	222136	199869	0.900	0.26	
5.929	105245	84776	0.806	0.12	
5.994	562299	517914	0.921	0.66	
6.030	1251900	1210482	0.967	1.48	
6.056	3581989	3121113	0.871	4.23	
6.170	2328780	1484198	0.637	2.75	
6.257	533348	316626	0.594	0.63	
6.300	4328765	3602666	0.832	5.11	8 Aroclor 1260
6.332	635873	554609	0.872	0.75	
6.374	166590	132594	0.796	0.19	
6.433	464363	404511	0.871	0.54	
6.487	99285	119042	1.199	0.11	
6.509	2148304	1882394	0.876	2.54	
6.535	394424	422591	1.071	0.46	
6.561	1341525	1196072	0.892	1.58	
6.604	141409	115102	0.814	0.16	
6.661	417039	383638	0.920	0.49	
6.718	2289697	1970989	0.861	2.70	
6.759	1295745	1116495	0.862	1.53	
6.804	1058424	934717	0.883	1.25	
6.838	199169	171583	0.861	0.23	
6.866	100126	89213	0.891	0.11	
6.912	156733	140038	0.893	0.18	
6.944	453234	417139	0.920	0.53	
7.005	4908203	4291027	0.874	5.80	8 Aroclor 1260
7.035	325498	318921	0.980	0.38	
7.075	167281	127630	0.763	0.19	
7.122	238259	189781	0.797	0.28	
7.252	2360655	2040658	0.864	2.79	8 Aroclor 1260
7.282	691639	556699	0.805	0.81	
7.390	1210833	979598	0.809	1.43	
7.444	1443850	1242584	0.861	1.70	8 Aroclor 1260
7.553	121232	82650	0.682	0.14	
7.691	577449	516541	0.895	0.68	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.728	106585	81318	0.763	0.12	
7.777	24225	28669	1.183	0.02	
7.800	83574	56954	0.681	0.09	
7.901	1312523	1129026	0.860	1.55	8 Aroclor 1260
7.965	102499	75394	0.736	0.12	
8.275	325997	297080	0.911	0.38	
8.377	45903	31430	0.685	0.05	
8.572	5312752	4519291	0.851	6.28	$ 12 Decachlorobiphenyl
8.739	26600	11588	0.436	0.03	
8.943	52533	33251	0.633	0.06	
8.993	10265	8473	0.825	0.01	
9.015	10050	7503	0.747	0.01	
9.470	52157	34850	0.668	0.06	
9.961	54045	36108	0.668	0.06	
	84557281	72306592		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6057237	0.05000	0.049			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1513499	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1532387	0.50000	0.49	0.00- 20.00	101.25	BA
3.826	3.826	0.000	4314629	0.50000	0.49	0.00- 20.00	285.08	BA
3.928	3.929	-0.001	1875063	0.50000	0.50	0.00- 20.00	123.89	BA
3.994	3.994	0.000	1275639	0.50000	0.49	0.00- 20.00	84.28	BA
Average of Peak Amounts =					0.49200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4328764	0.50000	0.49	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	4908203	0.50000	0.49	0.00- 20.00	113.39	CO
7.251	7.251	0.000	2360654	0.50000	0.49	0.00- 20.00	54.53	CO
7.443	7.443	0.000	1443849	0.50000	0.50	0.00- 20.00	33.35	CO
7.901	7.901	0.000	1312522	0.50000	0.50	0.00- 20.00	30.32	CO
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5312751	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

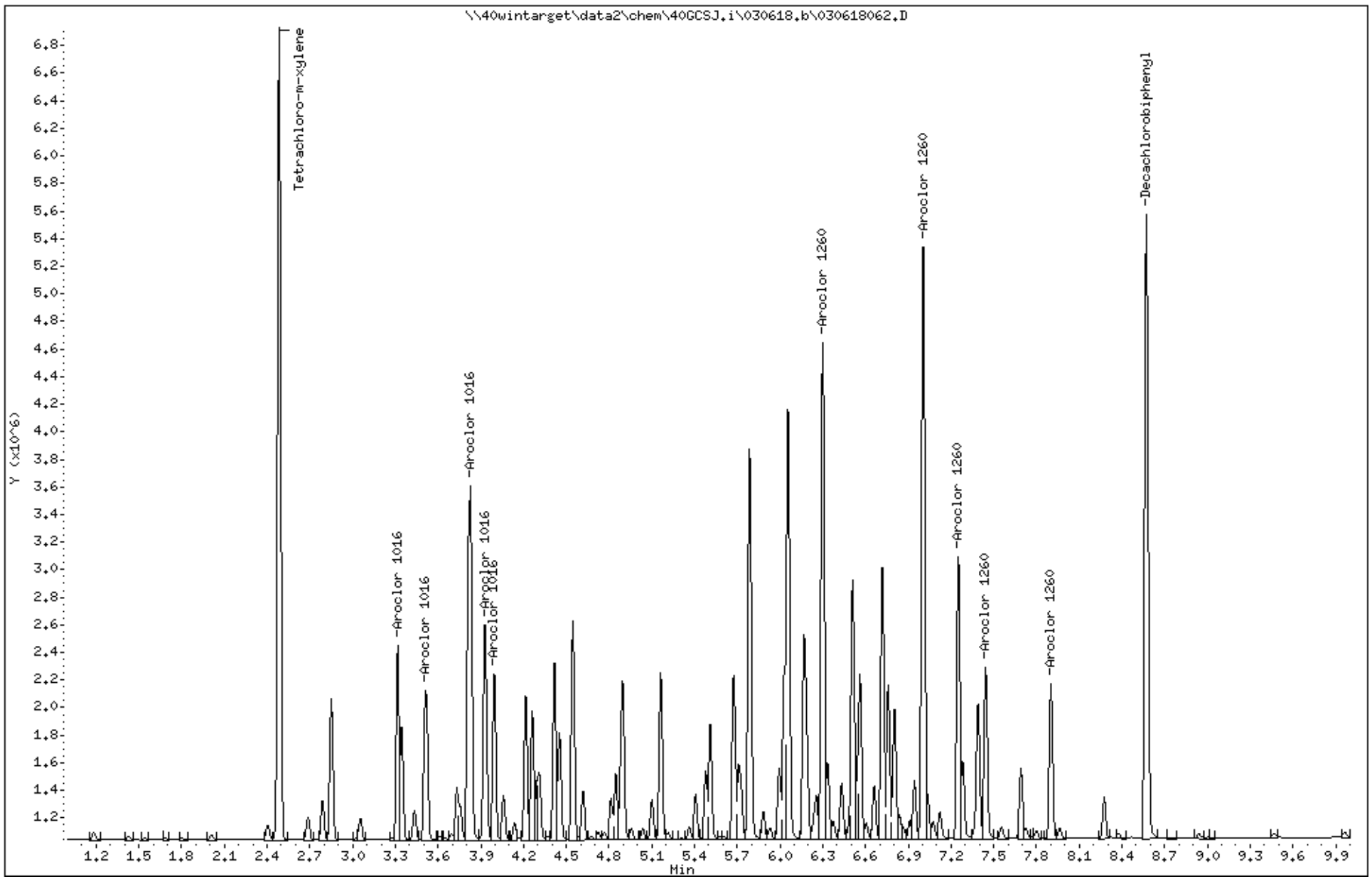
QC Flag Legend

Review Codes Legend

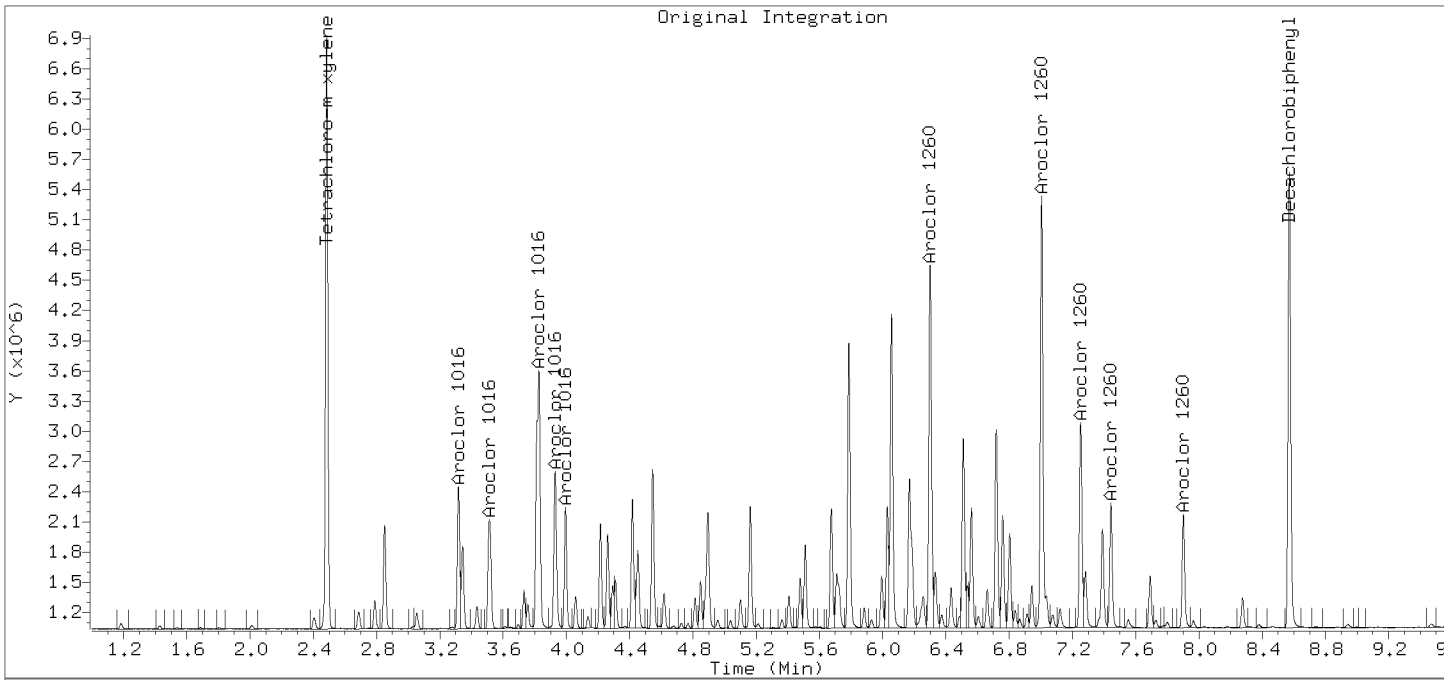
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

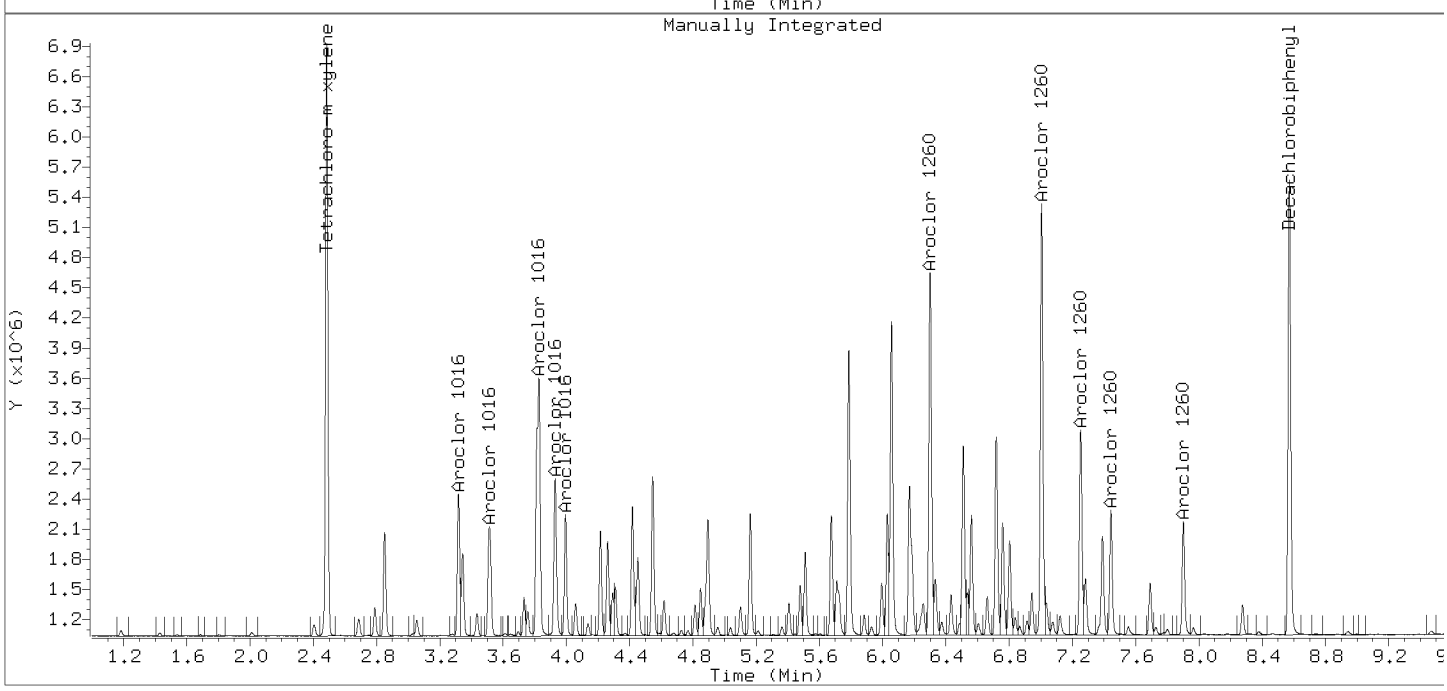
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618062.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1016	1506634	1513499	BA
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Aroclor 1260	4317043	4328764	CO
Tetrachloro-m-xylene	6057237	6057237	
Decachlorobiphenyl	5312751	5312751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	51048	39743	0.779	0.03		
1.428	67658	59771	0.883	0.05		
1.537	35520	27064	0.762	0.02		
1.684	11345	12242	1.079	0.00		
1.804	26637	21421	0.804	0.01		
2.010	30322	24464	0.807	0.02		
2.405	217693	168016	0.772	0.16		
2.485	12180956	11703129	0.961	9.57	$ 2 Tetrachloro-m-xylene	
2.686	324056	263363	0.813	0.24		
2.788	503381	488978	0.971	0.37		
2.851	1715701	1591093	0.927	1.27		
3.033	12533	16182	1.291	0.00		
3.055	262518	238547	0.909	0.19		
3.277	37151	29842	0.803	0.02		
3.318	2333577	2156053	0.924	1.73	5 Aroclor 1016	BA
3.344	1347877	1252078	0.929	1.00		
3.435	374972	344552	0.919	0.27		
3.513	2362745	1662196	0.704	1.75	5 Aroclor 1016	BA
3.610	37684	33923	0.900	0.02		
3.644	36588	23793	0.650	0.02		
3.697	64716	64546	0.997	0.04		
3.733	614707	615053	1.001	0.45		
3.757	393294	383146	0.974	0.29		
3.827	6746065	3969633	0.588	5.01	5 Aroclor 1016	BA
3.929	2864977	2413896	0.843	2.12	5 Aroclor 1016	BA
3.995	1946759	1862950	0.957	1.44	5 Aroclor 1016	BA
4.059	556550	510919	0.918	0.41		
4.136	217971	201589	0.925	0.16		
4.215	1671721	1557184	0.931	1.24		
4.262	1509426	1424890	0.944	1.12		
4.293	644274	673004	1.045	0.47		
4.310	801855	741139	0.924	0.59		
4.372	46455	38102	0.820	0.03		
4.418	2086121	1916658	0.919	1.55		
4.453	1561367	1168414	0.748	1.16		
4.546	2691796	2429747	0.903	2.00		
4.618	614879	582697	0.948	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	40268	29964	0.744	0.02	
4.726	97409	80777	0.829	0.07	
4.769	84631	79528	0.940	0.06	
4.813	496125	477191	0.962	0.36	
4.848	769915	758419	0.985	0.57	
4.895	2431191	1773420	0.729	1.80	
4.957	158097	128688	0.814	0.11	
5.037	141886	125690	0.886	0.10	
5.100	509908	441468	0.866	0.37	
5.163	1980314	1775935	0.897	1.47	
5.213	95707	77428	0.809	0.07	
5.309	25285	19192	0.759	0.01	
5.364	136686	126726	0.927	0.10	
5.407	557655	538024	0.965	0.41	
5.447	22003	24599	1.118	0.01	
5.478	803193	761709	0.948	0.59	
5.511	1404548	1270014	0.904	1.04	
5.606	31361	23033	0.734	0.02	
5.676	2014749	1859939	0.923	1.49	
5.711	1494302	813162	0.544	1.11	
5.786	4990155	4308283	0.863	3.70	
5.884	340816	299117	0.878	0.25	
5.929	164472	137221	0.834	0.12	
5.994	852561	813094	0.954	0.63	
6.031	1912065	1795299	0.939	1.42	
6.057	5492951	4849840	0.883	4.08	
6.169	3549907	2212097	0.623	2.63	
6.255	812378	476866	0.587	0.60	
6.300	6710843	5584923	0.832	4.98	8 Aroclor 1260
6.334	997961	870632	0.872	0.74	
6.374	242400	190548	0.786	0.18	
6.432	705567	608791	0.863	0.52	
6.487	129043	188452	1.460	0.09	
6.511	3293621	2899546	0.880	2.44	
6.536	647596	661803	1.022	0.48	
6.562	2057795	1823223	0.886	1.52	
6.605	225392	179290	0.795	0.16	
6.661	658391	628771	0.955	0.48	
6.719	3522957	3237666	0.919	2.61	
6.760	1974466	1743981	0.883	1.46	
6.804	1651358	1397674	0.846	1.22	
6.839	305859	257806	0.843	0.22	
6.868	154872	136206	0.879	0.11	
6.913	224919	208551	0.927	0.16	
6.944	715915	663774	0.927	0.53	
7.005	7621579	7030639	0.922	5.66	8 Aroclor 1260
7.036	534386	507176	0.949	0.39	
7.076	240666	196245	0.815	0.17	
7.122	345690	285294	0.825	0.25	
7.222	14224	14841	1.043	0.01	
7.252	3661924	3266511	0.892	2.72	8 Aroclor 1260
7.283	1069136	892362	0.835	0.79	
7.390	1852151	1502868	0.811	1.37	
7.443	2216952	1888648	0.852	1.64	8 Aroclor 1260
7.552	171302	132932	0.776	0.12	
7.692	911316	814697	0.894	0.67	
7.728	156368	125258	0.801	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.777	11035	17805	1.614	0.00	
7.802	122291	99621	0.815	0.09	
7.901	2009348	1700247	0.846	1.49	8 Aroclor 1260
7.965	142693	115147	0.807	0.10	
8.076	14691	9375	0.638	0.01	
8.277	552327	476813	0.863	0.41	
8.383	35077	22743	0.648	0.02	
8.572	10160226	8786744	0.865	7.55	$ 12 Decachlorobiphenyl
8.945	25819	16899	0.655	0.01	
9.091	15971	14108	0.883	0.01	
9.470	23386	15627	0.668	0.01	
9.964	26995	17470	0.647	0.02	
	134567937	116018447		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12180955	0.10000	0.099			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	2333576	0.80000	0.76	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2362744	0.80000	0.76	0.00- 20.00	101.25	BA
3.826	3.826	0.000	6746064	0.80000	0.76	0.00- 20.00	289.09	BA
3.929	3.929	0.000	2864977	0.80000	0.76	0.00- 20.00	122.77	BA
3.995	3.994	0.001	1946758	0.80000	0.75	0.00- 20.00	83.42	BA
Average of Peak Amounts =					0.75800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	6710842	0.80000	0.76	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	7621578	0.80000	0.76	0.00- 20.00	113.57	BA
7.252	7.251	0.001	3661923	0.80000	0.77	0.00- 20.00	54.57	BA
7.443	7.443	0.000	2216952	0.80000	0.76	0.00- 20.00	33.04	BA
7.901	7.901	0.000	2009347	0.80000	0.76	0.00- 20.00	29.94	BA
Average of Peak Amounts =					0.76200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10160225	0.10000	0.093			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

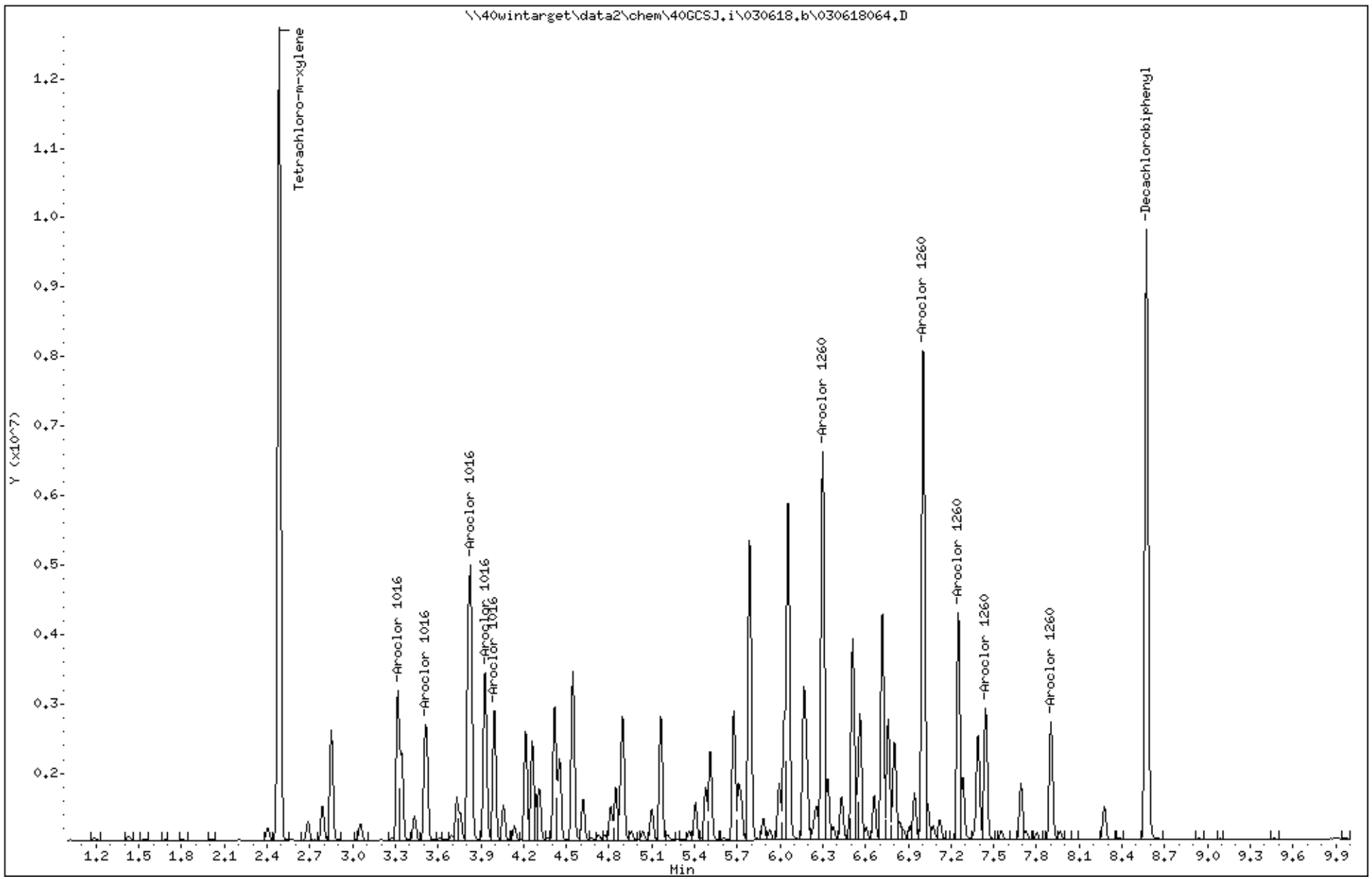
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

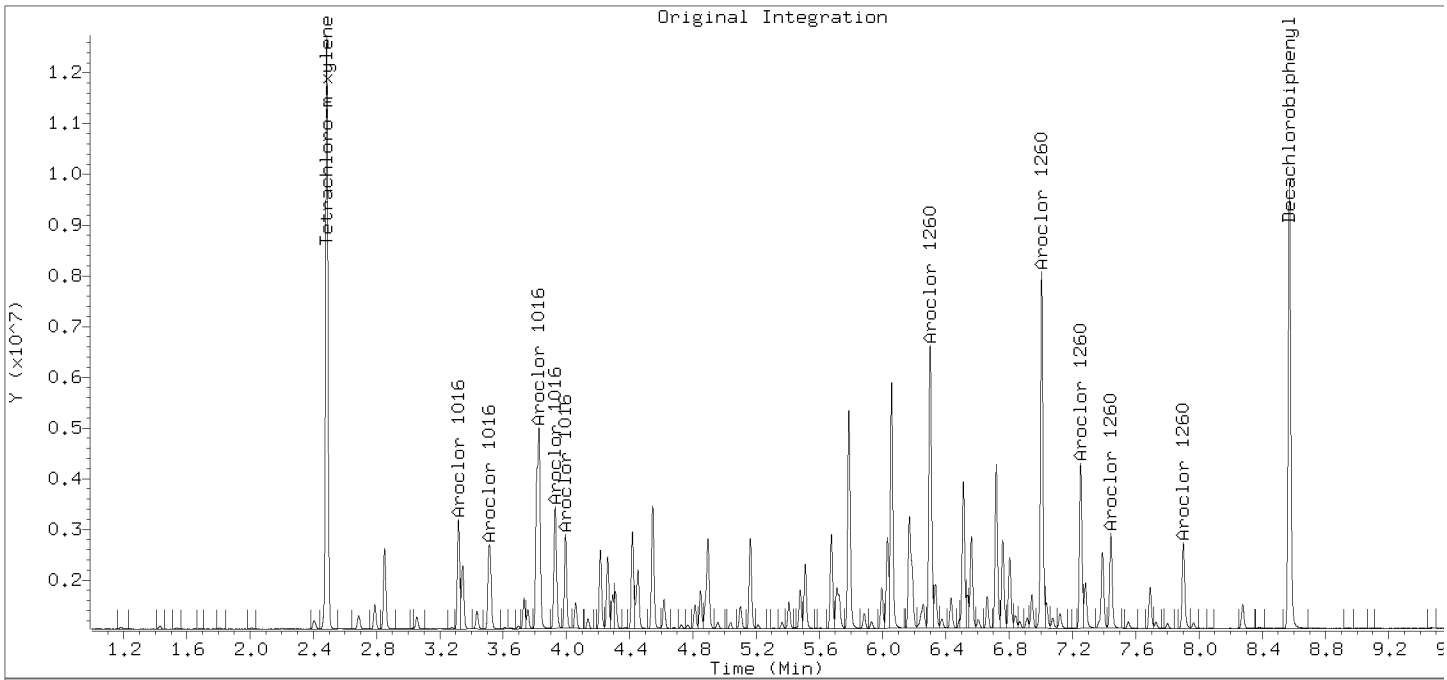
Operator: BLM

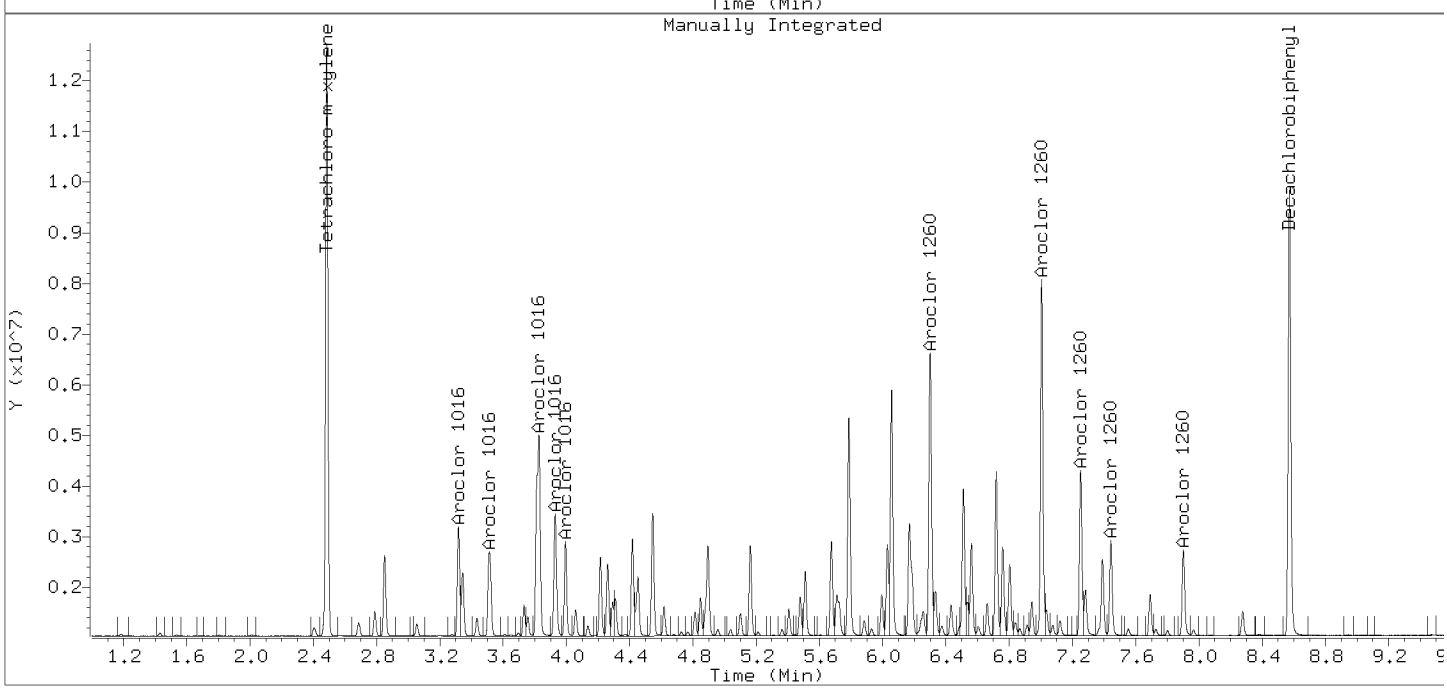
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618064.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL4A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1016	2324400	2333576	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Aroclor 1260	6681873	6710842	BA
Tetrachloro-m-xylene	12180955	12180955	
Decachlorobiphenyl	10160225	10160225	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	97781	71878	0.735	0.05		
1.429	107893	87519	0.811	0.06		
1.538	44327	37507	0.846	0.02		
1.689	14954	14333	0.958	0.00		
1.805	29740	28315	0.952	0.01		
2.010	60528	44274	0.731	0.03		
2.195	10025	8478	0.846	0.00		
2.405	262681	207562	0.790	0.15		
2.485	18299527	17728359	0.969	11.17	$ 2 Tetrachloro-m-xylene	
2.688	390097	317641	0.814	0.22		
2.789	657209	632240	0.962	0.38		
2.851	2084131	1917446	0.920	1.20		
3.030	26436	29009	1.097	0.01		
3.056	320575	297217	0.927	0.18		
3.278	50946	36697	0.720	0.02		
3.318	2843186	2604947	0.916	1.64	5 Aroclor 1016	BA
3.345	1662911	1538320	0.925	0.96		
3.435	468814	430601	0.918	0.27		
3.513	2890424	2043297	0.707	1.67	5 Aroclor 1016	BA
3.609	62043	51821	0.835	0.03		
3.645	34136	30033	0.880	0.01		
3.697	81037	81549	1.006	0.04		
3.732	758995	759602	1.001	0.43		
3.756	489036	474710	0.971	0.28		
3.827	8333033	5039841	0.605	4.83	5 Aroclor 1016	BA
3.929	3523970	2978332	0.845	2.04	5 Aroclor 1016	BA
3.994	2424782	2289525	0.944	1.40	5 Aroclor 1016	BA
4.059	690218	639344	0.926	0.40		
4.137	268754	245577	0.914	0.15		
4.215	2047181	1927649	0.942	1.18		
4.262	1851518	1768522	0.955	1.07		
4.293	812332	825594	1.016	0.47		
4.310	980066	916238	0.935	0.56		
4.372	57766	44143	0.764	0.03		
4.418	2565892	2366938	0.922	1.48		
4.453	1929565	1448450	0.751	1.11		
4.546	3331677	3063380	0.919	1.93		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	763681	725726	0.950	0.44	
4.681	43434	35484	0.817	0.02	
4.728	114565	101125	0.883	0.06	
4.768	108255	99422	0.918	0.06	
4.814	619087	601641	0.972	0.35	
4.849	956824	929295	0.971	0.55	
4.895	3006449	2129145	0.708	1.74	
4.958	194324	157336	0.810	0.11	
5.038	174178	158253	0.909	0.10	
5.101	636910	553004	0.868	0.36	
5.163	2438926	2194509	0.900	1.41	
5.212	111384	92369	0.829	0.06	
5.308	27827	26460	0.951	0.01	
5.364	165309	157324	0.952	0.09	
5.408	704023	646364	0.918	0.40	
5.443	29112	28546	0.981	0.01	
5.479	1000519	928454	0.928	0.57	
5.510	1729074	1534039	0.887	1.00	
5.576	19550	16048	0.821	0.01	
5.604	34848	27975	0.803	0.02	
5.675	2490301	2308914	0.927	1.44	
5.711	1866212	995046	0.533	1.08	
5.787	6185492	5328228	0.861	3.58	
5.883	417579	397243	0.951	0.24	
5.930	202848	167345	0.825	0.11	
5.995	1064293	993125	0.933	0.61	
6.031	2357002	2281362	0.968	1.36	
6.056	6802716	5913555	0.869	3.94	
6.169	4398269	2916854	0.663	2.54	
6.256	1013848	595870	0.588	0.58	
6.299	8372147	6873251	0.821	4.85	8 Aroclor 1260
6.334	1228651	1117268	0.909	0.71	
6.374	310797	237866	0.765	0.18	
6.433	875594	776637	0.887	0.50	
6.486	186696	226162	1.211	0.10	
6.510	4055406	3619288	0.892	2.35	
6.536	804268	870936	1.083	0.46	
6.562	2530676	2228116	0.880	1.46	
6.606	275537	224114	0.813	0.15	
6.660	821602	744134	0.906	0.47	
6.718	4363168	3923038	0.899	2.52	
6.759	2436592	2160749	0.887	1.41	
6.804	2046255	1732909	0.847	1.18	
6.840	379385	321813	0.848	0.21	
6.866	193686	163537	0.844	0.11	
6.913	279672	253923	0.908	0.16	
6.943	893745	829547	0.928	0.51	
7.006	9552528	8232909	0.862	5.53	8 Aroclor 1260
7.036	634159	627991	0.990	0.36	
7.075	290251	237040	0.817	0.16	
7.122	440812	358276	0.813	0.25	
7.222	14569	17676	1.213	0.00	
7.252	4561710	4033993	0.884	2.64	8 Aroclor 1260
7.283	1317583	1086644	0.825	0.76	
7.390	2273253	1907971	0.839	1.31	
7.444	2747730	2350698	0.856	1.59	8 Aroclor 1260
7.554	205956	170355	0.827	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.692	1143671	1008027	0.881	0.66	
7.728	196307	160265	0.816	0.11	
7.778	26925	26862	0.998	0.01	
7.801	147398	123041	0.835	0.08	
7.901	2485127	2093291	0.842	1.44	8 Aroclor 1260
7.966	182440	138184	0.757	0.10	
8.071	16818	11151	0.663	0.00	
8.276	710759	618559	0.870	0.41	
8.379	47324	33393	0.706	0.02	
8.572	15073641	13074115	0.867	8.73	$ 12 Decachlorobiphenyl
8.944	40002	27870	0.697	0.02	
9.088	20422	15432	0.756	0.01	
9.469	45604	27683	0.607	0.02	
9.964	44216	30829	0.697	0.02	
	172514109	148782492		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	18299526	0.15000	0.15			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	2843185	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2890423	1.00000	0.93	0.00- 20.00	101.66	BA
3.826	3.826	0.000	8333033	1.00000	0.94	0.00- 20.00	293.09	BA
3.928	3.929	-0.001	3523970	1.00000	0.93	0.00- 20.00	123.94	BA
3.994	3.994	0.000	2424781	1.00000	0.93	0.00- 20.00	85.28	BA
Average of Peak Amounts =					0.93000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	8372147	1.00000	0.94	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	9552528	1.00000	0.95	0.00- 20.00	114.10	BA
7.251	7.251	0.000	4561709	1.00000	0.95	0.00- 20.00	54.49	BA
7.443	7.443	0.000	2747730	1.00000	0.94	0.00- 20.00	32.82	BA
7.900	7.901	-0.001	2485127	1.00000	0.94	0.00- 20.00	29.68	BA
Average of Peak Amounts =					0.94400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	15073640	0.15000	0.14			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

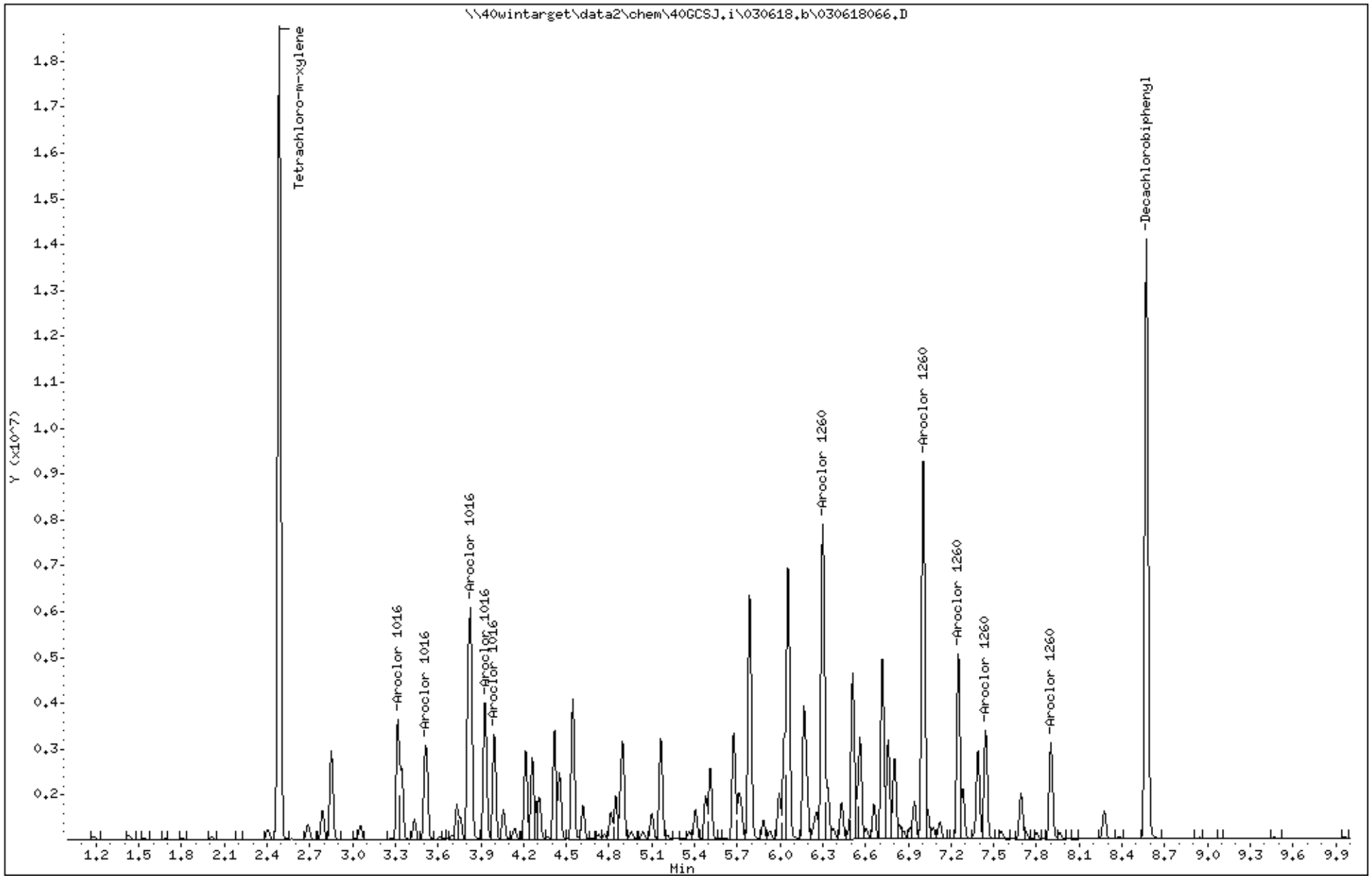
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

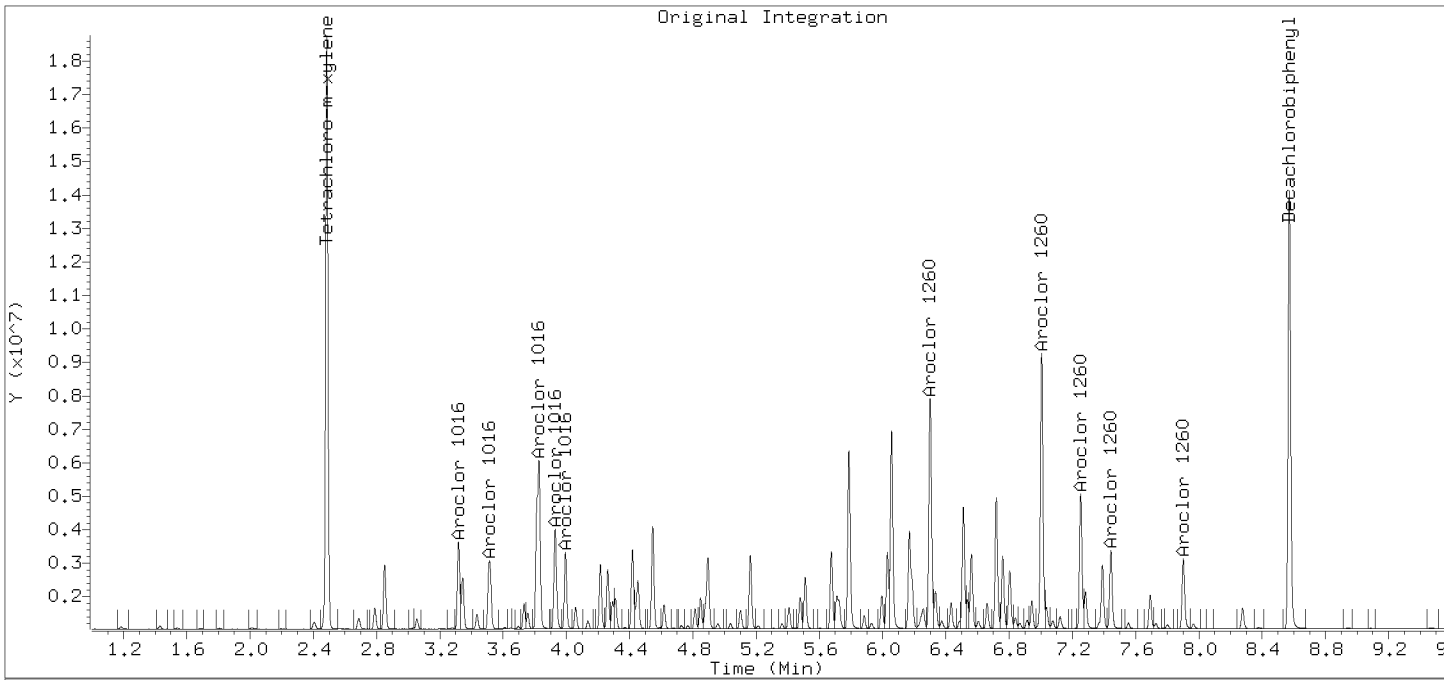
Operator: BLM

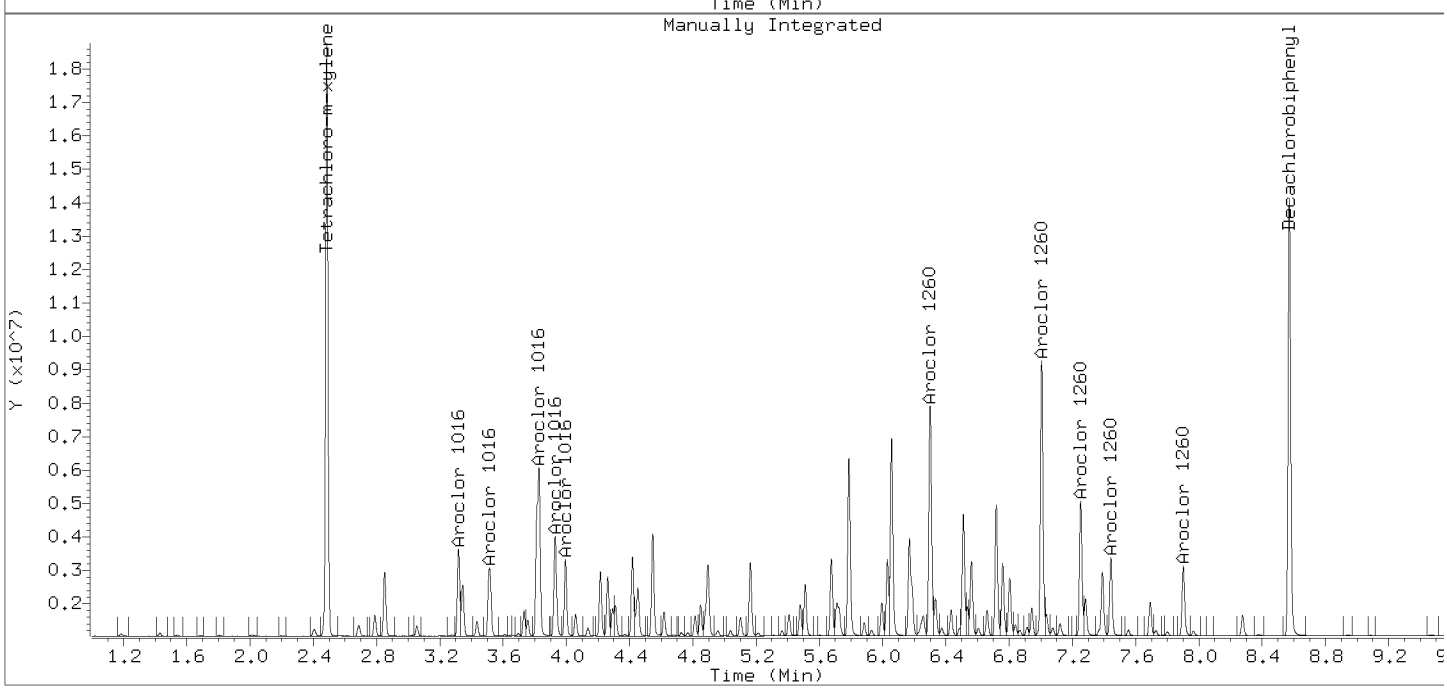
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618066.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL5A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1016	2831739	2843185	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Aroclor 1260	8339409	8372147	BA
Tetrachloro-m-xylene	18299526	18299526	
Decachlorobiphenyl	15073640	15073640	

PCB Low Level Calibration % Difference Check

Lab Name: Pace Analytical - Green Bay
Instrument ID: 40GCSJ
Calibration Date: 3/6/2018

Aroclor	True Value	Abundance Concentration	% Difference	Acceptance Criteria %	Pass/Fail
AR1221-CAL1	.1	0.109383	9.383	20	Pass
AR1242-CAL1	.1	0.108828	8.828	20	Pass
AR1248-CAL1	.1	0.106694	6.694	20	Pass
AR1254-CAL1	.1	0.10796	7.96	20	Pass
AR1016-CAL1	.1	0.109056	9.056	20	Pass
AR1260-CAL1	.1	0.10731	7.31	20	Pass

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:11

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618070.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	1074308.00	3.1742
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	558458.000	1.9376
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1446642.00	4.5763
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1114194.00	0.7619
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3446964.00	5.8846
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106438520.	-2.8491
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119469080.	-3.1031

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757932ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:27

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618072.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2574948.00	1.6481
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2587724.00	2.6861
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7162442.00	0.6462
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3109342.00	2.2294
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2082504.00	1.6973
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	100680260.	-8.1049
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	117472720.	-4.7223

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757923ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:44

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618074.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.261	4.227	4.295	2342973.85	2416006.00	3.1171
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4272006.00	2.9323
Aroclor 1248	3	Averaged	4.813	4.778	4.846	2030080.20	2145142.00	5.6678
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5257174.00	4.3619
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3781714.00	5.3829
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	103468660.	-5.5598
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	117995220.	-4.2985

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757930ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:00

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618076.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.162	5.128	5.196	5235247.45	4908596.00	-6.2395
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4023996.00	-6.4416
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	7114120.00	-8.3948
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4559312.00	-6.3735
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6351522.00	-2.3910
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	103892160.	-5.1733
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	119128800.	-3.3791

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10757911ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:16

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618078.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3151828.00	2.3045
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3167044.00	2.1956
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9017370.00	1.7557
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3853260.00	1.9321
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2572474.00	-1.1860
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	8433522.00	-4.8388
Aroclor 1260	2	Averaged	7.005	6.972	7.04	10014373.3	10338502.0	3.2366
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4863954.00	1.7606
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	2985660.00	2.4201
Aroclor 1260	5	Averaged	7.901	7.867	7.935	2638735.95	2816390.00	6.7325
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	104964120.	-4.1948
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118641800.	-3.7741

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10842795CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 16:29

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032018.B\032018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2552980.00	0.7809
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2523760.00	0.1479
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7122812.00	0.0893
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3055274.00	0.4517
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2044686.00	-0.1495
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	103411200.	-5.6123
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119382160.	-3.1736

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10842794CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 19:39

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032018.B\032018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2370352.00	1.1685
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4146654.00	-0.0880
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2042030.00	0.5886
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5085656.00	0.9570
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3617738.00	0.8135
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106514480.	-2.7798
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	119702040.	-2.9142

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10844457CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 22:49

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032018.B\032018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.162	5.128	5.196	5235247.45	5288960.00	1.0260
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4389492.00	2.0562
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	7880510.00	1.4737
Aroclor 1254	4	Averaged	6.025	5.993	6.061	4869683.55	5116178.00	5.0618
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6707288.00	3.0764
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111005760.	1.3196
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	121881340.	-1.1467

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10860013CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/23/2018 Time: 13:25

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032318.B\032318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2546654.00	0.5312
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2528060.00	0.3185
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7066942.00	-0.6958
Aroclor 1242	4	Averaged	3.929	3.895	3.963	3041534.65	3028536.00	-0.4274
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2011672.00	-1.7617
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	104280400.	-4.8189
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118932640.	-3.5382

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10860015CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/23/2018 Time: 16:35

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032318.B\032318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.261	4.227	4.295	2342973.85	2443730.00	4.3004
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4277822.00	3.0724
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2160242.00	6.4117
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5300408.00	5.2202
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3797570.00	5.8248
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	110950540.	1.2692
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	122703060.	-0.4802

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

05/08/2018 12:51

SAMPLE NO.

10850752CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 13:55

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032718.B\032718004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.804	1.77	1.838	1041256.70	973054.000	-6.5500
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	513248.000	-6.3147
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1293026.00	-6.5285
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1008344.00	-8.8107
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3070240.00	-5.6877
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	97313000.0	-11.1783
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	115912980.	-5.9874

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850753CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 17:05

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032718.B\032718016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.85	2.817	2.885	2500024.00	2681994.00	7.2787
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1400658.00	4.5437
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4023370.00	7.2977
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1720932.00	7.1236
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1148408.00	5.1775
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105022320.	-4.1417
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119771560.	-2.8578

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850754CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 20:15

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032718.B\032718028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2610852.00	3.0654
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2579278.00	2.3509
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7388808.00	3.8270
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3166486.00	4.1082
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2104988.00	2.7953
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108048260.	-1.3798
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120904680.	-1.9388

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850858CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/28/2018 Time: 14:08

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032818.B\032818004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.162	5.128	5.196	5235247.45	5124282.00	-2.1196
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4255840.00	-1.0512
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	7612740.00	-1.9743
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	4718196.00	-3.1108
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6375960.00	-2.0154
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106206800.	-3.0606
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119729540.	-2.8919

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850859CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/28/2018 Time: 17:19

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 032818.B\032818016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.317	3.284	3.352	3080830.60	3099454.00	0.6045
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3117950.00	0.6114
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	8944602.00	0.9345
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	3819642.00	1.0428
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2580570.00	-0.8750
Aroclor 1260	1	Averaged	6.3	6.266	6.334	8862352.50	8972568.00	1.2436
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10212116.0	1.9746
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	4901806.00	2.5525
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3007592.00	3.1725
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2707782.00	2.6166
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111870520.	2.1089
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	122758840.	-0.4349

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850971CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 15:47

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2538698.00	1.5469
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1338104.00	-0.1252
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3730710.00	-0.5071
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1594924.00	-0.7201
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1054644.00	-3.4099
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	102155020.	-6.7588
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	115728840.	-6.1367

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10850970CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 18:57

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.318	3.284	3.352	2533198.70	2590076.00	2.2453
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2573384.00	2.1171
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7354464.00	3.3444
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3157966.00	3.8280
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2096922.00	2.4014
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	108080680.	-1.3502
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120300920.	-2.4285

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10858108CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 22:08

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 033018.B\033018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2400608.00	2.4599
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4192600.00	1.0191
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2116228.00	4.2436
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5214738.00	3.5195
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3736722.00	4.1291
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108248000.	-1.1975
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119920640.	-2.7369

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10868270CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 15:12

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 040218.B\040218004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2651620.00	6.0638
Aroclor 1232	2	Averaged	3.514	3.479	3.547	1339782.00	1416674.00	5.7391
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3905832.00	4.1631
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1681896.00	4.6937
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1098048.00	0.5653
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106713780.	-2.5979
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	121875740.	-1.1512

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10868271CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 18:23

Instrument ID: 40GCSJ GC Column: Col 1
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 040218.B\040218016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151614

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.317	3.284	3.352	2533198.70	2693620.00	6.3328
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2664902.00	5.7487
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7623904.00	7.1306
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3270266.00	7.5203
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2165354.00	5.7432
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113468160.	3.5672
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	126030000.	2.2182

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.430	40840	33323	0.816	0.23		
1.537	17254	12915	0.749	0.09		
1.688	12270	8463	0.690	0.07		
1.804	537154	469858	0.875	3.07	1 Aroclor 1221	BA
2.158	11282	10928	0.969	0.06		
2.198	158378	141258	0.892	0.90		
2.407	279229	204848	0.734	1.60	1 Aroclor 1221	BA
2.485	5973454	5698500	0.954	34.47	$ 2 Tetrachloro-m-xylene	BA
2.688	723322	608616	0.841	4.14	1 Aroclor 1221	BA
2.789	557097	532699	0.956	3.19	1 Aroclor 1221	BA
2.851	1723482	1520837	0.882	9.87	1 Aroclor 1221	BA
3.053	42842	31274	0.730	0.24		
3.281	125722	92702	0.737	0.72		
3.324	409120	233739	0.571	2.34		
3.433	41957	33921	0.808	0.24		
3.514	152248	110173	0.724	0.87		
3.609	20491	17352	0.847	0.11		
3.693	13172	11957	0.908	0.07		
3.731	39776	40682	1.023	0.22		
3.755	38316	38664	1.009	0.21		
3.827	333479	205587	0.616	1.91		
3.930	166253	139975	0.842	0.95		
3.994	101078	94563	0.936	0.57		
4.058	16842	14008	0.832	0.09		
4.214	43249	38654	0.894	0.24		
4.260	30501	31686	1.039	0.17		
4.291	19839	13076	0.659	0.11		
4.418	34788	38094	1.095	0.19		
4.447	27970	19186	0.686	0.16		
4.544	57594	51561	0.895	0.33		
4.616	16740	13977	0.835	0.09		
4.815	23044	20925	0.908	0.13		
4.847	36853	34664	0.941	0.21		
4.879	53269	36786	0.691	0.30		
5.037	34294	32438	0.946	0.19		
5.103	10234	8648	0.845	0.05		
5.408	11500	8513	0.740	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.512	18851	12253	0.650	0.10	
5.783	9303	7027	0.755	0.05	
6.347	10003	6690	0.669	0.05	
6.867	9564	7223	0.755	0.05	
7.729	30210	25344	0.839	0.17	
7.802	20371	17570	0.862	0.11	
8.278	45102	38714	0.858	0.25	
8.572	5321926	4509273	0.847	30.49	$ 12 Decachlorobiphenyl
8.942	13753	10341	0.752	0.07	
9.470	11610	10452	0.900	0.06	
9.960	25620	14968	0.584	0.14	
	17451246	15314905		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5973454	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	537154	0.50000	0.52	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	279229	0.50000	0.51	0.00- 20.00	51.98	BA
2.688	2.688	0.000	723321	0.50000	0.52	0.00- 20.00	134.66	BA
2.789	2.789	0.000	557097	0.50000	0.50	0.00- 20.00	103.71	BA
2.851	2.851	0.000	1723482	0.50000	0.53	0.00- 20.00	320.85	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5321926	0.05000	0.048			

QC Flag Legend

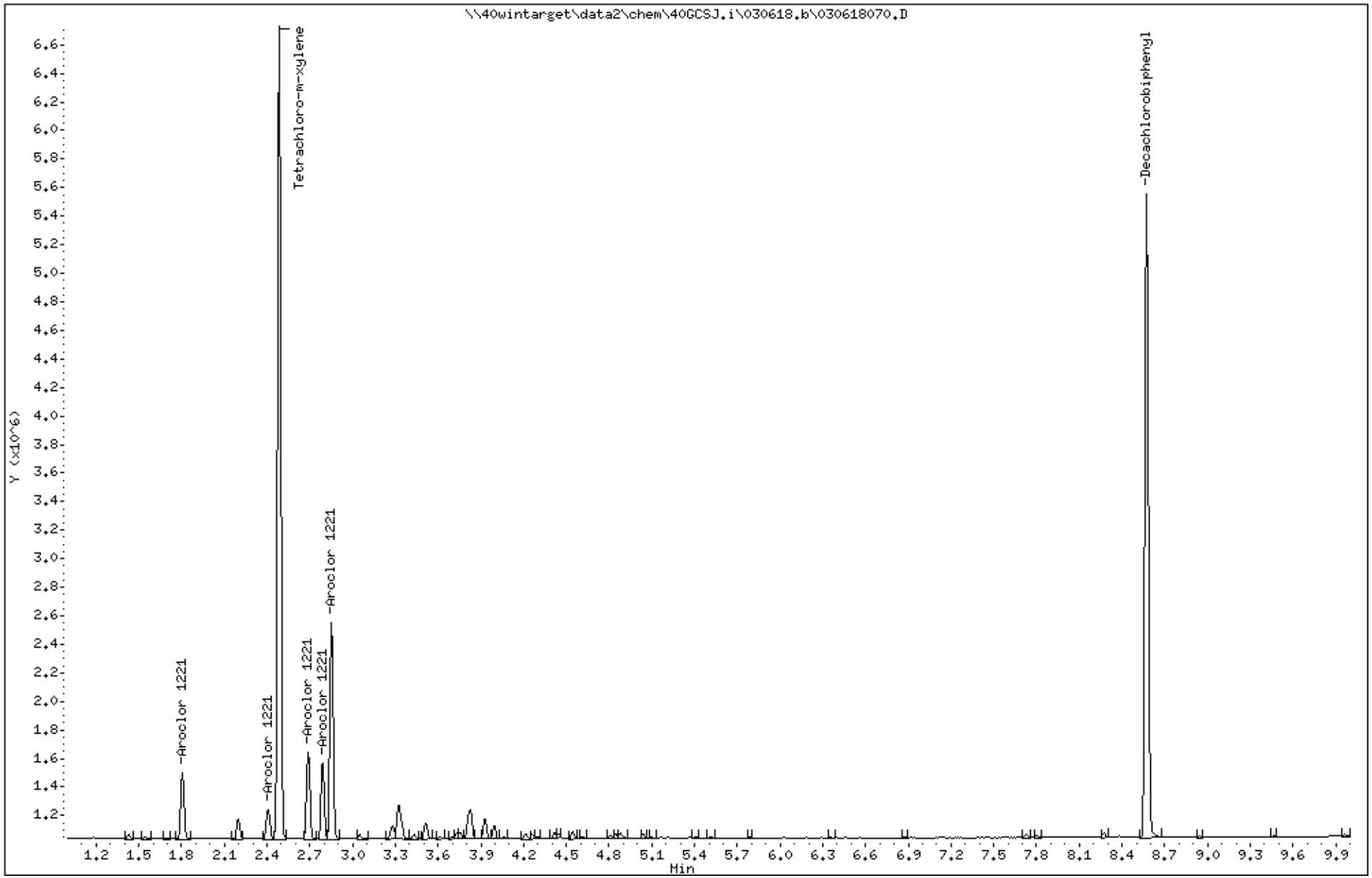
M - Compound response manually integrated.

Review Codes Legend

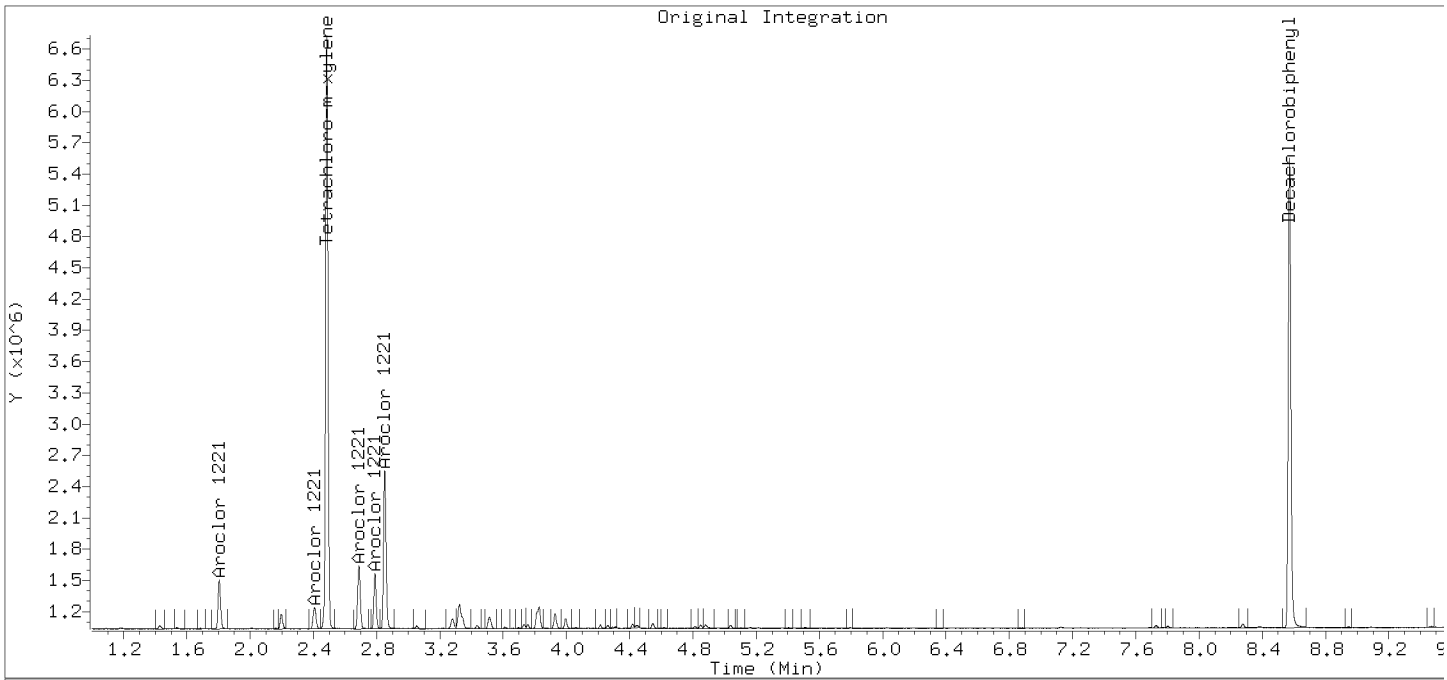
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

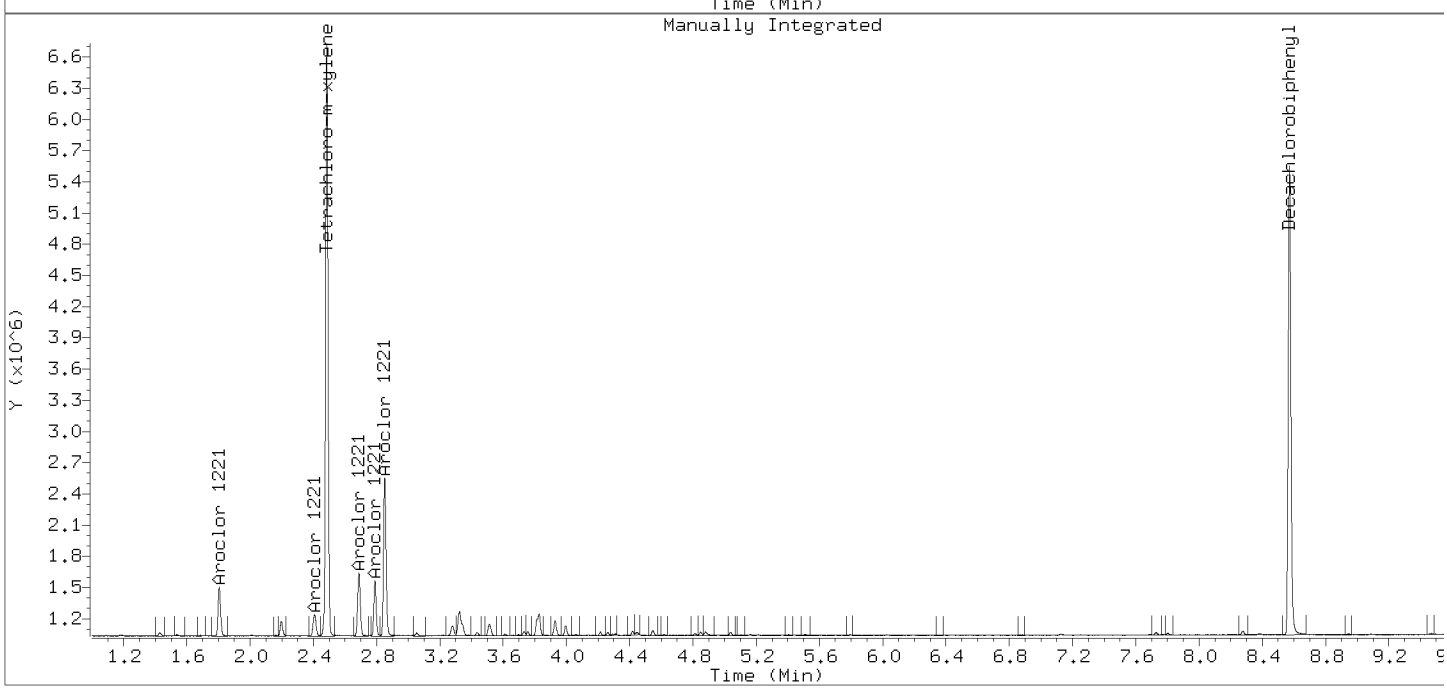
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618070.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 06-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Tetrachloro-m-xylene	5952668	5973454	BA
Decachlorobiphenyl	5321926	5321926	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	14288	12968	0.908	0.03		
1.428	37134	32784	0.883	0.09		
1.539	20685	13744	0.664	0.05		
1.806	19059	17804	0.934	0.05		
2.404	134346	103552	0.771	0.35		
2.485	5873636	5676099	0.966	16.03	$ 2 Tetrachloro-m-xylene	
2.686	193190	158466	0.820	0.51		
2.788	283870	272236	0.959	0.75		
2.850	999209	952371	0.953	2.66		
3.054	145787	130280	0.894	0.38		
3.279	24447	19522	0.799	0.06		
3.317	1287474	1200238	0.932	3.43	3 Aroclor 1242	BA
3.344	730459	693075	0.949	1.94		
3.435	207883	189325	0.911	0.55		
3.513	1293863	944289	0.730	3.44	3 Aroclor 1242	BA
3.612	22860	18377	0.804	0.06		
3.647	23439	16349	0.698	0.06		
3.696	36476	35506	0.973	0.09		
3.731	322838	319621	0.990	0.86		
3.756	213073	205263	0.963	0.56		
3.826	3581222	2097110	0.586	9.54	3 Aroclor 1242	BA
3.928	1554671	1293077	0.832	4.14	3 Aroclor 1242	BA
3.994	1041253	986439	0.947	2.77	3 Aroclor 1242	BA
4.058	279247	251769	0.902	0.74		
4.136	113510	101678	0.896	0.30		
4.215	824770	788034	0.955	2.19		
4.261	781405	765245	0.979	2.08		
4.292	312524	328346	1.051	0.83		
4.311	404517	367665	0.909	1.07		
4.372	27372	22538	0.823	0.07		
4.417	1118646	1040424	0.930	2.98		
4.452	854457	630460	0.738	2.27		
4.545	1421692	1283823	0.903	3.78		
4.618	334338	302865	0.906	0.89		
4.679	28007	18667	0.667	0.07		
4.728	68438	58015	0.848	0.18		
4.768	73081	69415	0.950	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	640662	618887	0.966	1.70	
4.848	1131783	1062264	0.939	3.01	
4.878	1453285	1083159	0.745	3.87	
4.957	156083	126825	0.813	0.41	
5.037	1224571	1114748	0.910	3.26	
5.099	245239	185939	0.758	0.65	
5.162	276625	246249	0.890	0.73	
5.212	201147	175293	0.871	0.53	
5.285	18730	16061	0.858	0.04	
5.312	50903	39235	0.771	0.13	
5.362	178111	159411	0.895	0.47	
5.407	296369	257265	0.868	0.78	
5.446	185486	163132	0.879	0.49	
5.509	494170	376849	0.763	1.31	
5.604	157705	129475	0.821	0.42	
5.670	15998	12262	0.766	0.04	
5.716	27499	21293	0.774	0.07	
5.741	38080	32982	0.866	0.10	
5.792	324066	249256	0.769	0.86	
5.891	46598	28590	0.614	0.12	
6.025	300272	225833	0.752	0.80	
6.173	22376	16996	0.760	0.05	
6.299	61219	54211	0.886	0.16	
6.335	9981	10468	1.049	0.02	
6.367	9764	8232	0.843	0.02	
6.801	13109	12142	0.926	0.03	
7.008	20895	16561	0.793	0.05	
7.124	16181	11660	0.721	0.04	
7.253	9479	8109	0.855	0.02	
7.392	10765	9021	0.838	0.02	
7.727	30633	26862	0.877	0.08	
7.802	22807	20254	0.888	0.06	
8.275	44979	37205	0.827	0.11	
8.381	12768	10411	0.815	0.03	
8.572	5034014	4309550	0.856	13.41	$ 12 Decachlorobiphenyl
9.466	9953	6796	0.683	0.02	
9.962	21579	14184	0.657	0.05	
	37517051	32315109		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5873636	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1287474	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1293862	0.50000	0.51	0.00- 20.00	100.50	BA
3.825	3.827	-0.002	3581221	0.50000	0.50	0.00- 20.00	278.16	BA
3.928	3.929	-0.001	1554671	0.50000	0.51	0.00- 20.00	120.75	BA
3.993	3.995	-0.002	1041252	0.50000	0.51	0.00- 20.00	80.88	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5034013	0.05000	0.046			

QC Flag Legend

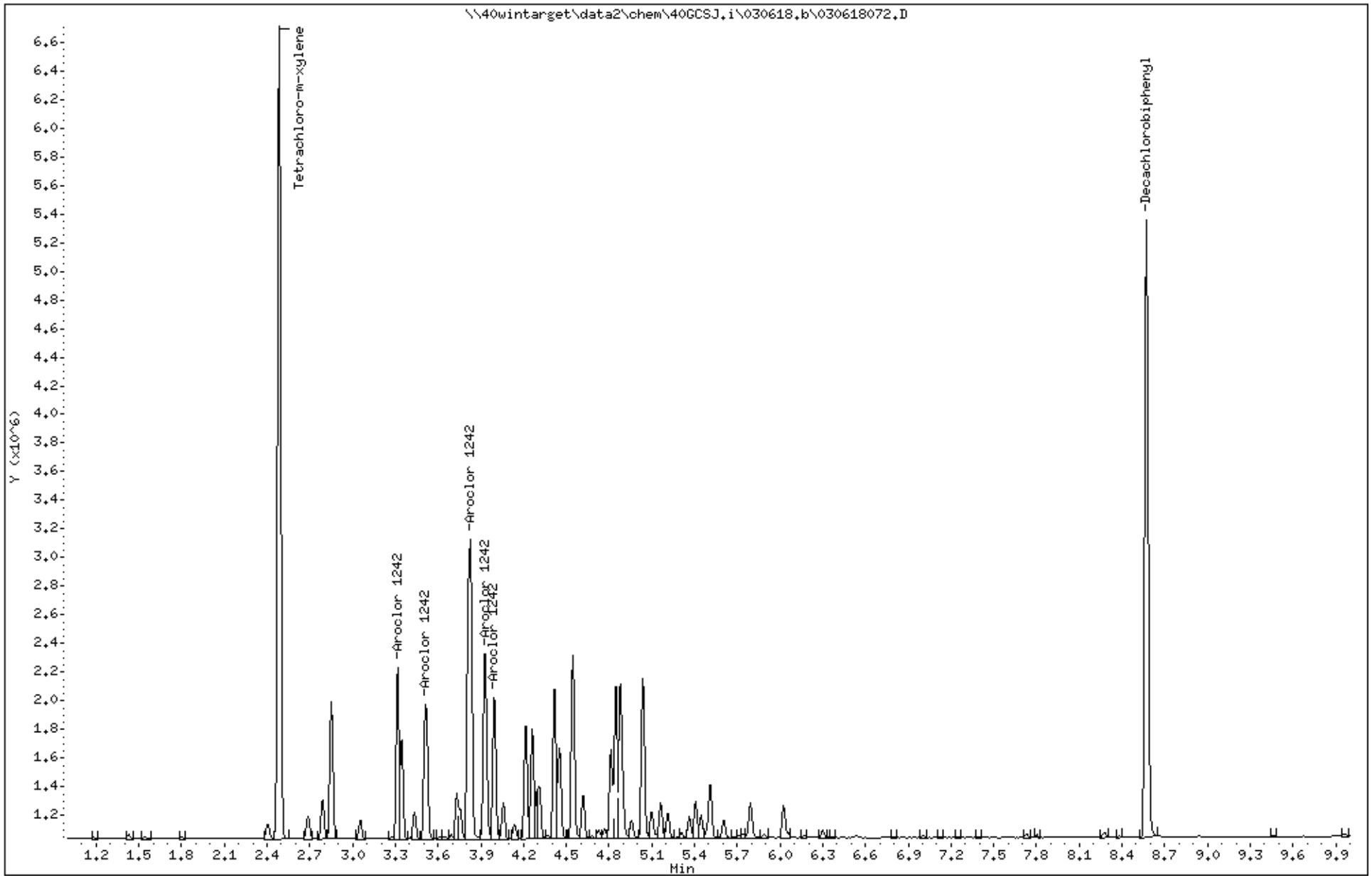
M - Compound response manually integrated.

Review Codes Legend

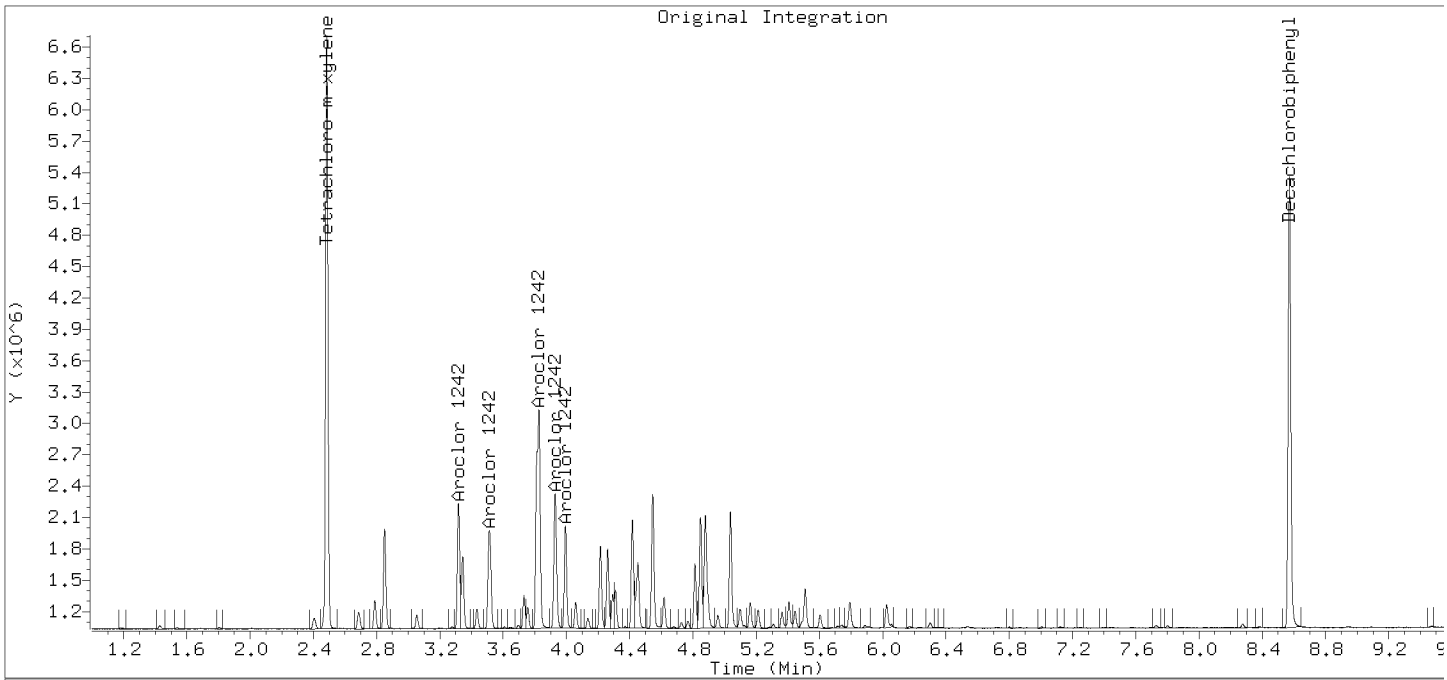
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

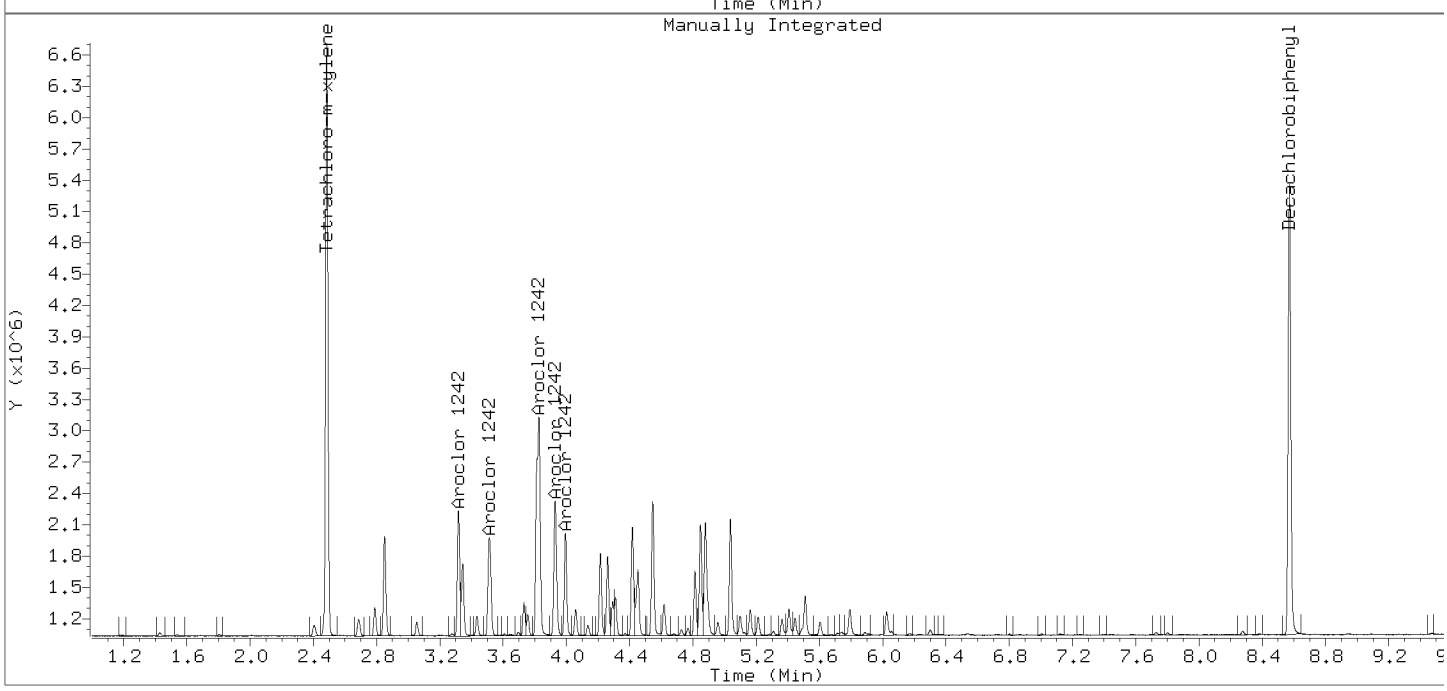
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618072.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 06-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Tetrachloro-m-xylene	5873636	5873636	
Decachlorobiphenyl	5034013	5034013	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	17909	14420	0.805	0.04		
1.427	41300	30754	0.745	0.09		
1.534	17534	12165	0.694	0.04		
1.683	10383	10019	0.965	0.02		
2.405	14088	10428	0.740	0.03		
2.485	5899761	5544150	0.940	14.05	$ 2 Tetrachloro-m-xylene	
2.689	16668	12362	0.742	0.03		
2.788	95501	90846	0.951	0.22		
2.852	103096	93433	0.906	0.23		
3.055	53842	46986	0.873	0.12		
3.318	652092	633367	0.971	1.50		
3.344	255476	242530	0.949	0.58		
3.433	54381	45369	0.834	0.12		
3.515	528681	378059	0.715	1.22		
3.612	17192	16665	0.969	0.03		
3.733	139942	107922	0.771	0.32		
3.815	998138	1180553	1.183	2.30		
3.825	1248615	1194584	0.957	2.88		
3.931	835250	638277	0.764	1.92		
3.995	550006	533435	0.970	1.26		
4.059	343387	326192	0.950	0.79		
4.137	145276	132173	0.910	0.33		
4.215	1486323	1403883	0.945	3.43		
4.262	1208004	1159133	0.960	2.78	6 Aroclor 1248	BA
4.293	511269	526568	1.030	1.17		
4.311	543428	513963	0.946	1.25		
4.418	1823450	1718104	0.942	4.20		
4.452	908943	795006	0.875	2.09		
4.546	2136003	1914178	0.896	4.92	6 Aroclor 1248	BA
4.588	34235	33628	0.982	0.07		
4.618	485337	462281	0.952	1.12		
4.680	28053	23489	0.837	0.06		
4.728	63611	50641	0.796	0.14		
4.769	114596	110060	0.960	0.26		
4.813	1072572	1047618	0.977	2.47	6 Aroclor 1248	BA
4.848	2019974	1872521	0.927	4.66		
4.880	2628588	1729939	0.658	6.06	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.958	300549	254865	0.848	0.69	
5.037	1890857	1718796	0.909	4.36	6 Aroclor 1248
5.099	658439	515140	0.782	1.51	
5.163	778429	704282	0.905	1.79	
5.212	561933	511880	0.911	1.29	
5.284	37417	36848	0.985	0.08	
5.309	124762	104101	0.834	0.28	
5.364	496549	440266	0.887	1.14	
5.408	826216	719936	0.871	1.90	
5.446	528194	462528	0.876	1.21	
5.510	1373479	1108021	0.807	3.16	
5.604	398982	348600	0.874	0.92	
5.675	36019	29954	0.832	0.08	
5.717	78189	59388	0.760	0.18	
5.739	98549	89525	0.908	0.22	
5.793	935796	748637	0.800	2.15	
5.889	98768	81563	0.826	0.22	
5.996	31650	25516	0.806	0.07	
6.024	912880	698617	0.765	2.10	
6.169	70680	48903	0.692	0.16	
6.228	45926	27843	0.606	0.10	
6.301	222697	182730	0.821	0.51	
6.335	46487	36946	0.795	0.10	
6.372	40036	31572	0.789	0.09	
6.512	15047	14089	0.936	0.03	
6.536	93754	63840	0.681	0.21	
6.607	16189	11424	0.706	0.03	
6.719	21159	16941	0.801	0.04	
6.759	10928	9914	0.907	0.02	
6.804	35912	32894	0.916	0.08	
7.005	37431	32956	0.880	0.08	
7.126	11973	10422	0.870	0.02	
7.253	25115	21545	0.858	0.05	
7.683	12978	7477	0.576	0.02	
7.730	34860	28466	0.817	0.08	
7.799	36493	21426	0.587	0.08	
7.900	14089	11492	0.816	0.03	
8.274	45874	41456	0.904	0.10	
8.380	17315	11279	0.651	0.03	
8.571	5173433	4424436	0.855	11.93	$ 12 Decachlorobiphenyl
8.940	12157	9669	0.795	0.02	
9.960	18949	14032	0.741	0.04	
	43330043	38425916		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5899761	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1208003	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2136003	0.50000	0.51	0.00- 20.00	176.82	BA
4.813	4.812	0.001	1072571	0.50000	0.53	0.00- 20.00	88.79	BA
4.879	4.879	0.000	2628587	0.50000	0.52	0.00- 20.00	217.60	BA
5.037	5.038	-0.001	1890857	0.50000	0.53	0.00- 20.00	156.53	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5173433	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

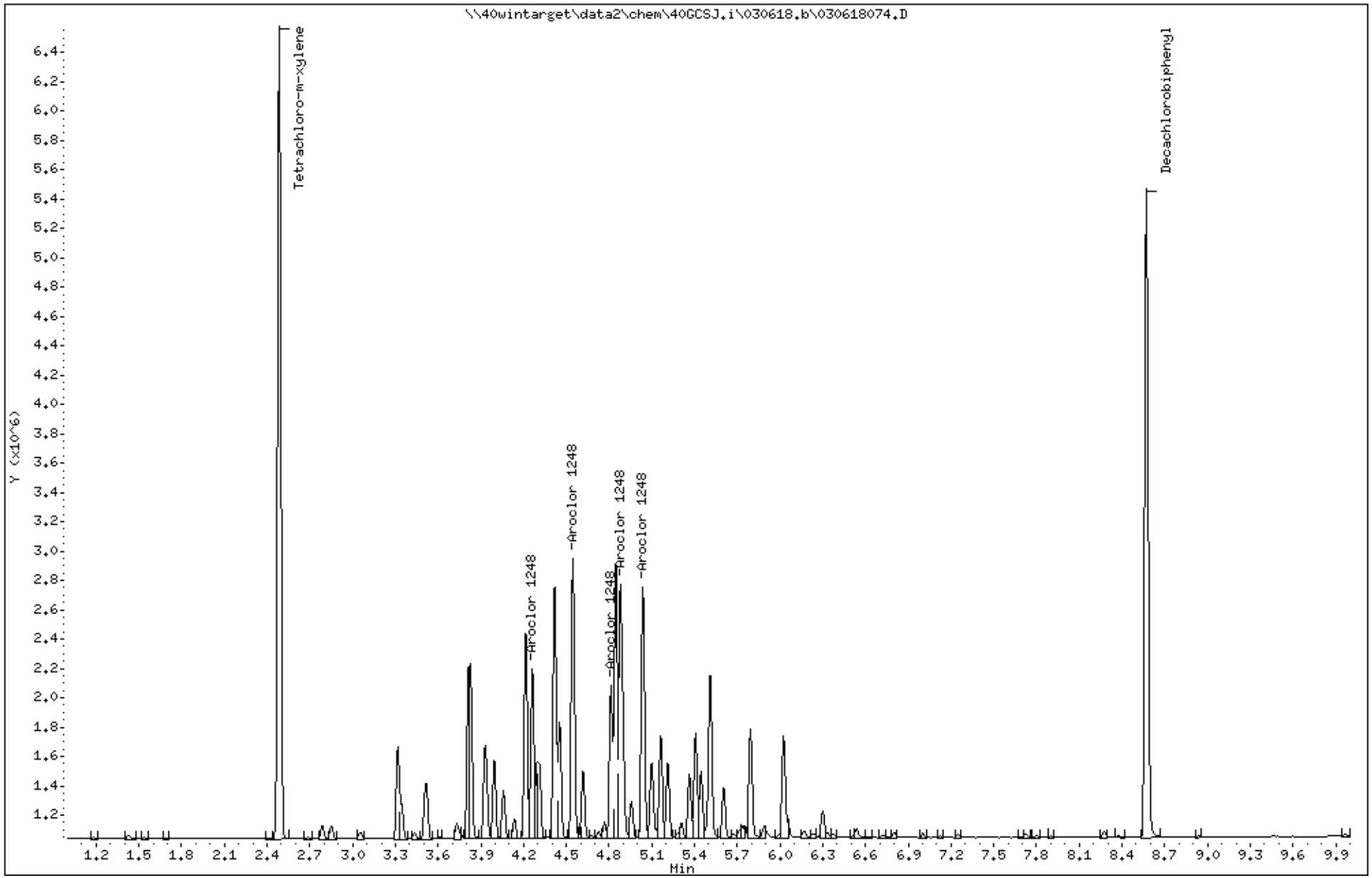
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

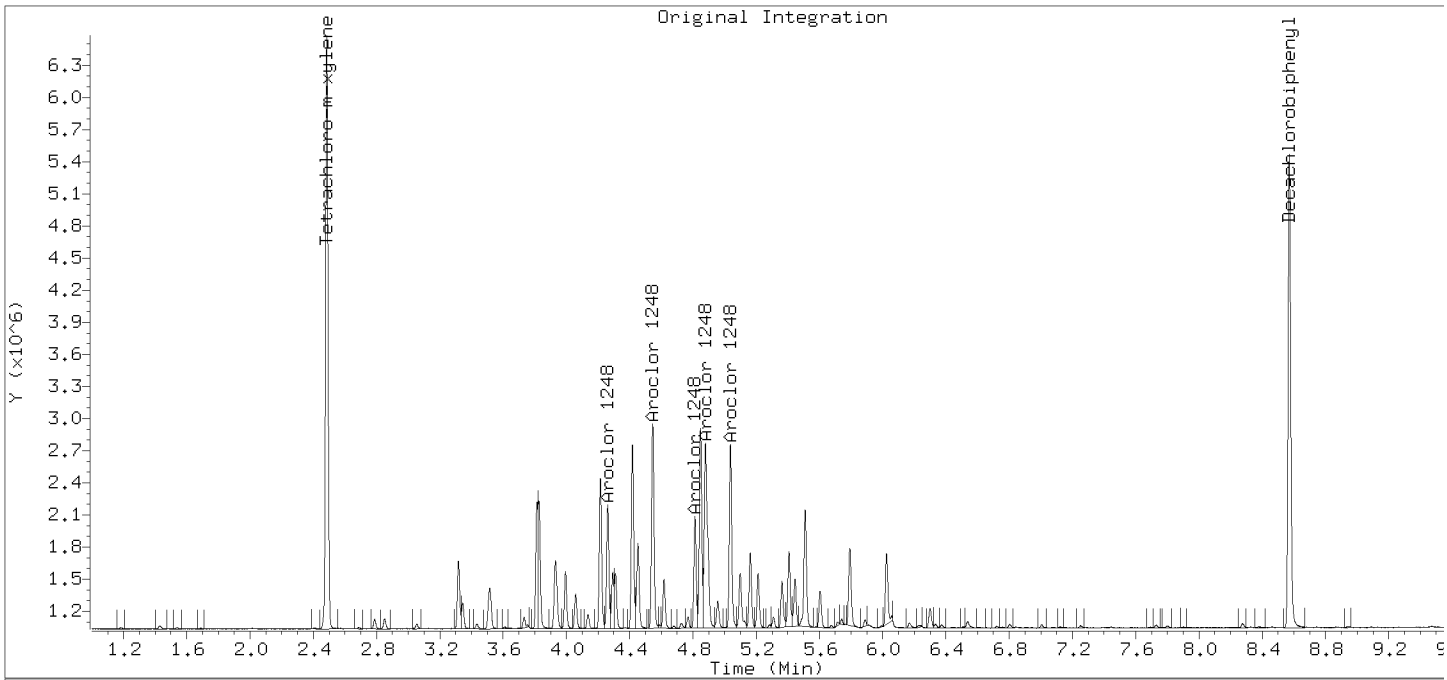
Operator: BLM

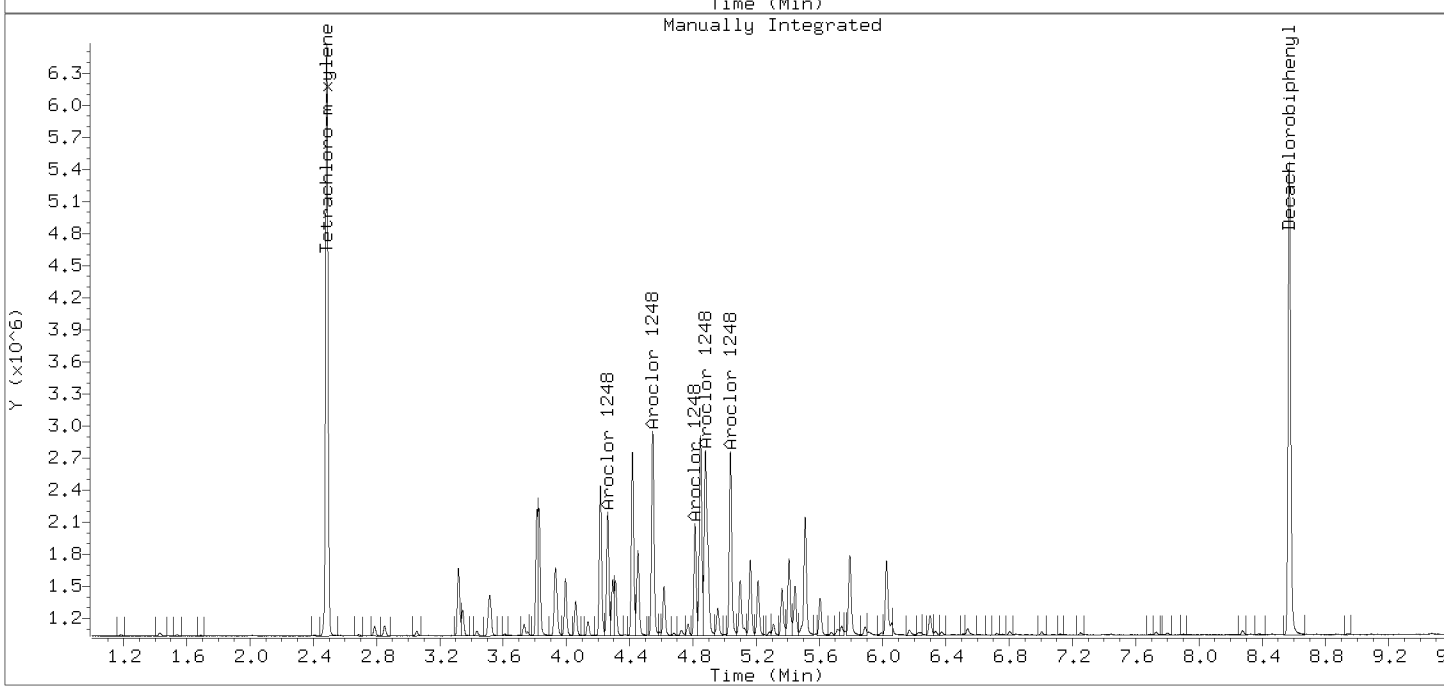
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618074.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 06-MAR-2018 20:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Tetrachloro-m-xylene	5899761	5899761	
Decachlorobiphenyl	5173433	5173433	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	11241	11145	0.991	0.02		
1.429	37023	29359	0.793	0.07		
1.536	18870	14547	0.771	0.03		
2.485	5956441	5624399	0.944	12.17	$ 2 Tetrachloro-m-xylene	
2.787	83932	83545	0.995	0.16		
2.847	23487	12751	0.543	0.04		
3.053	22053	16758	0.760	0.04		
3.320	24424	22137	0.906	0.04		
3.343	16533	14772	0.894	0.03		
3.511	21956	15136	0.689	0.04		
3.610	23047	18723	0.812	0.04		
3.813	73837	44648	0.605	0.14		
3.936	54806	35146	0.641	0.10		
3.991	21322	19067	0.894	0.04		
4.057	16084	14470	0.900	0.03		
4.216	1104737	1042404	0.944	2.18		
4.261	294439	287244	0.976	0.58		
4.293	55355	38898	0.703	0.10		
4.417	645490	619185	0.959	1.27		
4.453	65034	55154	0.848	0.12		
4.546	297966	280995	0.943	0.58		
4.590	13297	14947	1.124	0.02		
4.615	52626	43507	0.827	0.10		
4.682	14760	14823	1.004	0.02		
4.769	19864	18032	0.908	0.03		
4.813	255256	243907	0.956	0.50		
4.848	954635	917189	0.961	1.88		
4.895	2240553	1806193	0.806	4.42		
4.957	378746	331044	0.874	0.74		
5.039	197483	178932	0.906	0.39		
5.100	1331660	1130632	0.849	2.63		
5.163	2454299	2245562	0.915	4.84	7 Aroclor 1254	BA
5.212	1112261	987906	0.888	2.19		
5.285	62054	59649	0.961	0.12		
5.310	206656	186551	0.903	0.40		
5.363	957753	888665	0.928	1.89		
5.407	2011999	1826444	0.908	3.97	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.445	683522	603976	0.884	1.35	
5.478	263671	258349	0.980	0.52	
5.510	3557061	3172502	0.892	7.02	7 Aroclor 1254
5.577	41056	36384	0.886	0.08	
5.605	496084	429134	0.865	0.98	
5.676	353874	332146	0.939	0.69	
5.711	557893	345779	0.620	1.10	
5.741	316074	271838	0.860	0.62	
5.790	3702485	2959912	0.799	7.31	
5.885	349557	271841	0.778	0.69	
5.928	191368	119957	0.627	0.37	
5.994	332278	306209	0.922	0.65	
6.027	2279656	1881319	0.825	4.50	7 Aroclor 1254
6.055	1742805	1415445	0.812	3.44	
6.169	710083	597581	0.842	1.40	
6.228	301903	298212	0.988	0.59	
6.242	317472	282700	0.890	0.62	
6.300	3175762	2557382	0.805	6.27	7 Aroclor 1254
6.335	613369	538823	0.878	1.21	
6.374	338945	280771	0.828	0.66	
6.441	98349	54990	0.559	0.19	
6.487	20933	19173	0.916	0.04	
6.510	122159	127890	1.047	0.24	
6.537	1093807	836036	0.764	2.16	
6.606	171691	137034	0.798	0.33	
6.662	39774	29158	0.733	0.07	
6.720	225492	189217	0.839	0.44	
6.760	134652	118490	0.880	0.26	
6.802	627925	538577	0.858	1.24	
6.843	186255	113960	0.612	0.36	
6.943	65536	50712	0.774	0.12	
7.006	455898	370505	0.813	0.90	
7.074	28987	20562	0.709	0.05	
7.121	17906	16606	0.927	0.03	
7.253	362457	317889	0.877	0.71	
7.281	86561	71028	0.821	0.17	
7.390	15134	15178	1.003	0.02	
7.445	25464	19955	0.784	0.05	
7.555	25575	19764	0.773	0.05	
7.692	17214	14547	0.845	0.03	
7.731	30335	26152	0.862	0.05	
7.802	25782	20334	0.789	0.05	
7.898	15405	15400	1.000	0.03	
8.277	51144	41782	0.817	0.10	
8.571	5194608	4290400	0.826	10.26	$ 12 Decachlorobiphenyl
9.963	10137	8532	0.842	0.02	
	50606079	43638597		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	5956440	0.05000	0.048			
7 Aroclor 1254						CAS #: 11097-69-1		
5.162	5.162	0.000	2454298	0.50000	0.47	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2011998	0.50000	0.47	0.00- 20.00	81.98	BA
5.510	5.510	0.000	3557060	0.50000	0.46	0.00- 20.00	144.93	BA
6.026	6.027	-0.001	2279656	0.50000	0.47	0.00- 20.00	92.88	BA
6.299	6.299	0.000	3175761	0.50000	0.49	0.00- 20.00	129.40	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5194608	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

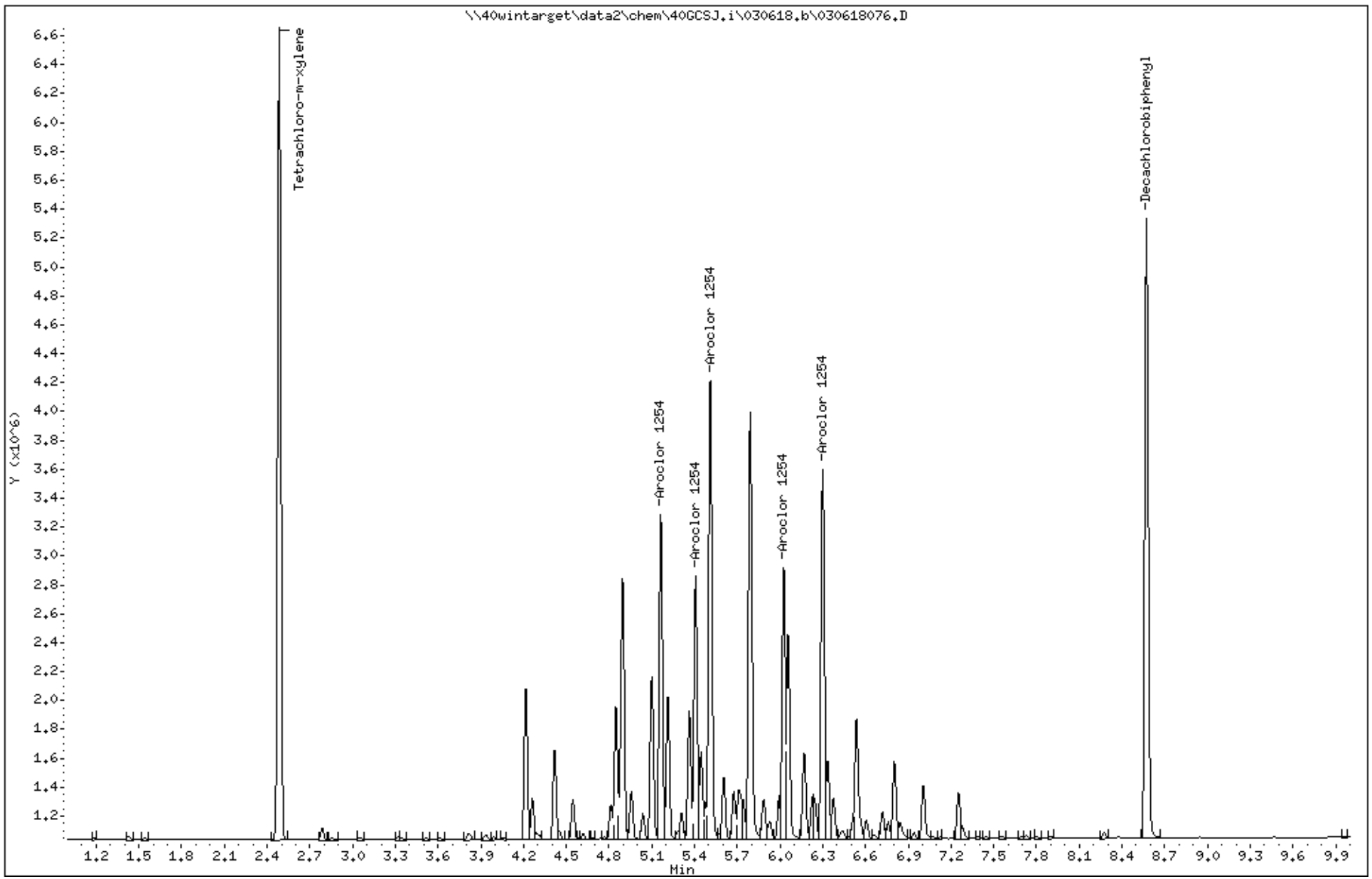
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

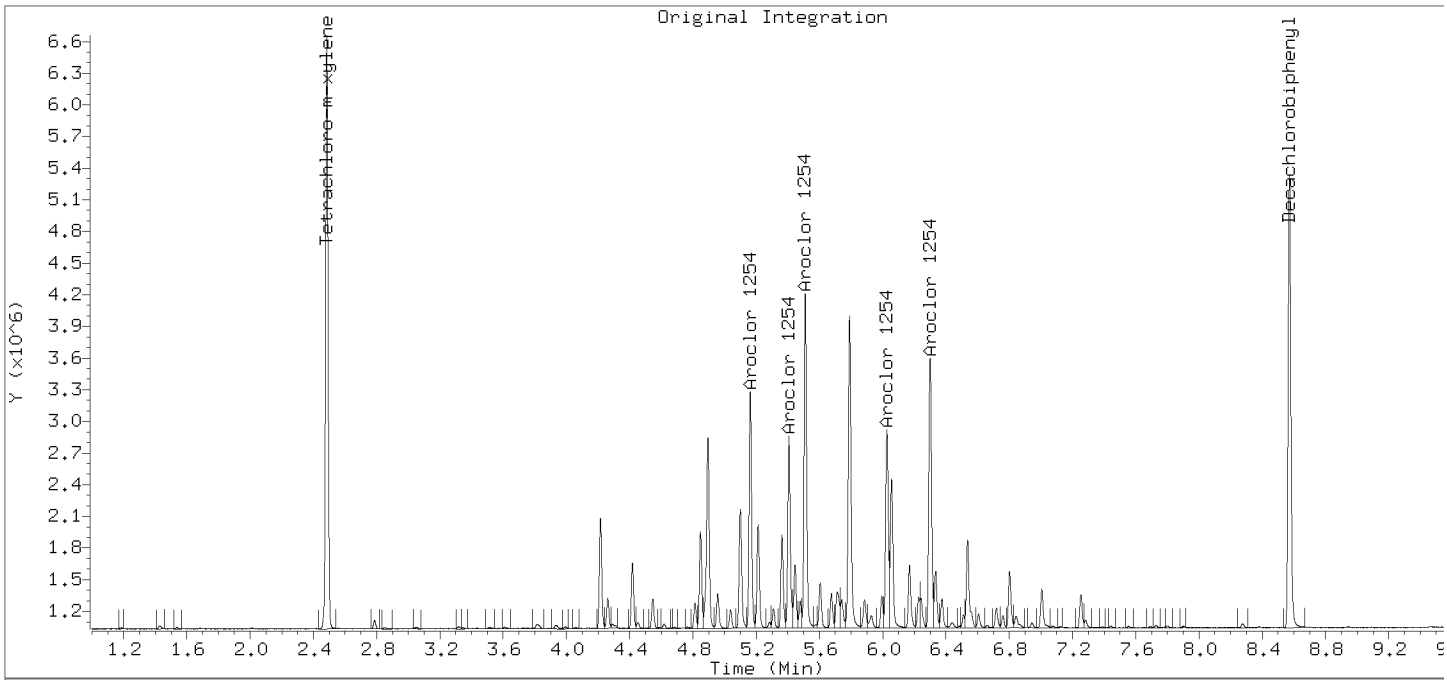
Operator: BLM

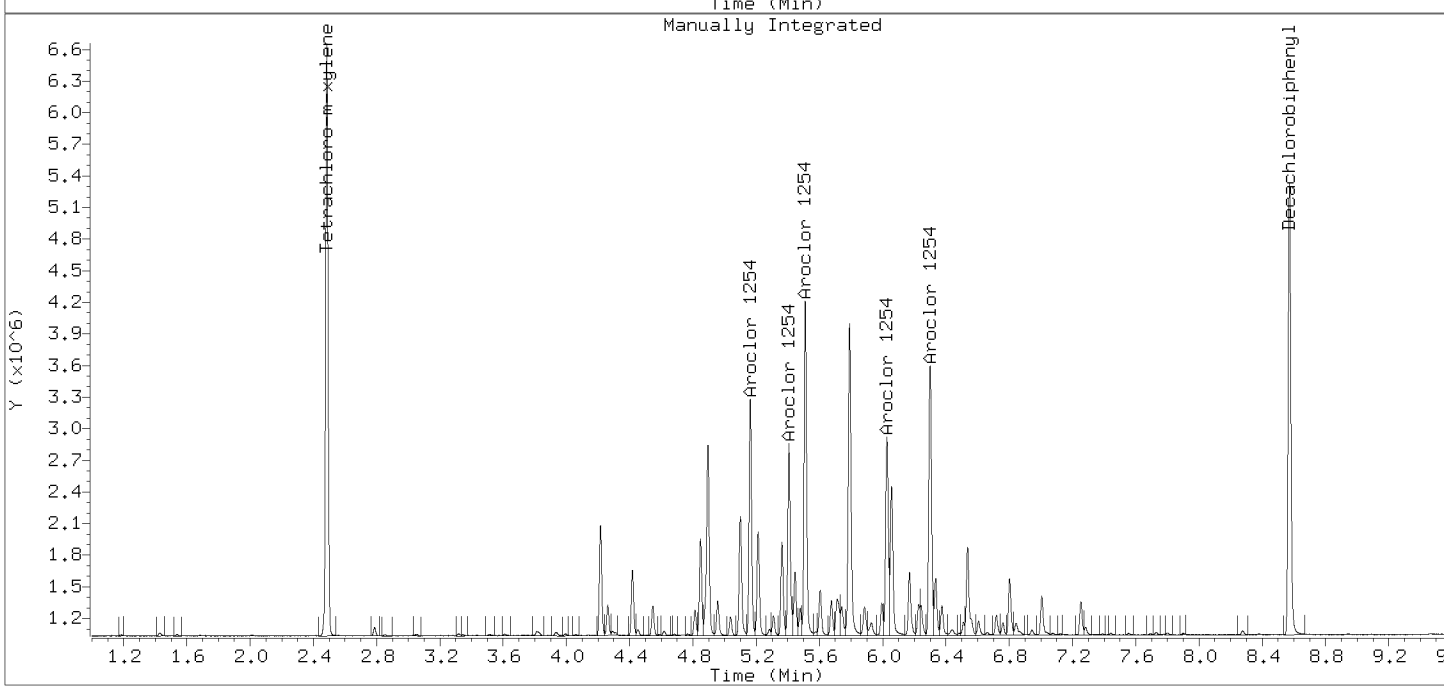
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618076.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 06-MAR-2018 21:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Tetrachloro-m-xylene	5956440	5956440	
Decachlorobiphenyl	5194608	5194608	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	21221	17184	0.810	0.02		
1.431	40838	31713	0.777	0.04		
1.536	17776	15618	0.879	0.02		
1.804	13311	13960	1.049	0.01		
2.011	10268	7617	0.742	0.01		
2.405	140776	109473	0.778	0.16		
2.484	5932090	5726918	0.965	7.56	$ 2 Tetrachloro-m-xylene	
2.687	201068	164753	0.819	0.24		
2.788	295756	279701	0.946	0.35		
2.851	1113041	1029534	0.925	1.33		
3.055	169967	158668	0.934	0.20		
3.277	24278	19456	0.801	0.02		
3.317	1575915	1463198	0.928	1.88	5 Aroclor 1016	BA
3.344	915512	854579	0.933	1.09		
3.435	250094	229311	0.917	0.29		
3.513	1583523	1159648	0.732	1.89	5 Aroclor 1016	BA
3.610	21286	19905	0.935	0.02		
3.645	25464	17411	0.684	0.03		
3.696	44251	42008	0.949	0.05		
3.732	398780	398305	0.999	0.47		
3.756	256467	255771	0.997	0.30		
3.827	4508685	2620847	0.581	5.39	5 Aroclor 1016	BA
3.929	1926630	1599827	0.830	2.30	5 Aroclor 1016	BA
3.994	1286237	1237455	0.962	1.54	5 Aroclor 1016	BA
4.058	377180	342508	0.908	0.45		
4.136	150296	140468	0.935	0.17		
4.214	1102455	1039229	0.943	1.32		
4.261	1029907	980757	0.952	1.23		
4.293	425562	439845	1.034	0.50		
4.310	540061	519083	0.961	0.64		
4.370	26189	19343	0.739	0.03		
4.417	1387264	1301927	0.938	1.66		
4.453	895338	753232	0.841	1.07		
4.545	1576424	1430306	0.907	1.88		
4.591	17433	23996	1.376	0.02		
4.618	301465	279443	0.927	0.36		
4.680	19837	14137	0.713	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	37013	29354	0.793	0.04	
4.768	30417	27693	0.910	0.03	
4.814	156037	149062	0.955	0.18	
4.848	239300	233617	0.976	0.28	
4.895	1221737	985481	0.807	1.46	
4.958	58840	41257	0.701	0.07	
5.037	85057	75952	0.893	0.10	
5.100	246503	215312	0.873	0.29	
5.163	1183240	1075758	0.909	1.41	
5.212	41947	29637	0.707	0.05	
5.310	13373	10637	0.795	0.01	
5.363	57749	52832	0.915	0.06	
5.407	268815	254856	0.948	0.32	
5.446	13974	15175	1.086	0.01	
5.478	527498	492186	0.933	0.63	
5.510	745390	669137	0.898	0.89	
5.576	10212	10260	1.005	0.01	
5.603	17026	12475	0.733	0.02	
5.676	1384577	1280481	0.925	1.65	
5.710	943302	526346	0.558	1.12	
5.786	3233298	2804467	0.867	3.87	
5.882	208249	189092	0.908	0.24	
5.930	96479	76874	0.797	0.11	
5.993	545401	501421	0.919	0.65	
6.029	1181491	1139915	0.965	1.41	
6.055	3616031	3141367	0.869	4.33	
6.169	2379439	1526966	0.642	2.84	
6.256	501646	311664	0.621	0.60	
6.301	4216761	3413991	0.810	5.04	8 Aroclor 1260
6.334	589361	516529	0.876	0.70	
6.373	133856	105313	0.787	0.16	
6.433	474923	416467	0.877	0.56	
6.486	96367	124001	1.287	0.11	
6.510	2278472	2020249	0.887	2.72	
6.535	319186	362341	1.135	0.38	
6.561	1371229	1239953	0.904	1.64	
6.606	126514	100966	0.798	0.15	
6.661	435030	401966	0.924	0.52	
6.718	2436948	2139504	0.878	2.91	
6.760	1379678	1221074	0.885	1.65	
6.803	1012423	886702	0.876	1.21	
6.839	204549	179535	0.878	0.24	
6.867	101951	86190	0.845	0.12	
6.915	150840	138650	0.919	0.18	
6.944	471585	431542	0.915	0.56	
7.006	5169251	4474270	0.866	6.18	8 Aroclor 1260
7.035	349824	352477	1.008	0.41	
7.076	161438	129444	0.802	0.19	
7.122	226639	191125	0.843	0.27	
7.252	2431978	2174432	0.894	2.91	8 Aroclor 1260
7.282	689708	552481	0.801	0.82	
7.391	1295375	1038752	0.802	1.55	
7.443	1492830	1281759	0.859	1.78	8 Aroclor 1260
7.554	105447	79274	0.752	0.12	
7.692	611618	562958	0.920	0.73	
7.728	153573	121839	0.793	0.18	
7.801	84844	63857	0.753	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.902	1408195	1200861	0.853	1.68	8 Aroclor 1260
7.965	99066	72839	0.735	0.11	
8.277	469900	412226	0.877	0.56	
8.379	12566	10774	0.857	0.01	
8.571	5248206	4347540	0.828	6.28	$ 12 Decachlorobiphenyl
8.945	16720	11361	0.679	0.02	
9.471	16512	10298	0.624	0.01	
	83510046	71509948		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5932090	0.05000	0.048			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1575914	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1583522	0.50000	0.51	0.00- 20.00	100.48	BA
3.826	3.826	0.000	4508685	0.50000	0.51	0.00- 20.00	286.10	BA
3.928	3.929	-0.001	1926630	0.50000	0.51	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1286237	0.50000	0.49	0.00- 20.00	81.62	BA
Average of Peak Amounts =					0.50600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4216761	0.50000	0.48	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5169251	0.50000	0.52	0.00- 20.00	122.59	CO
7.251	7.251	0.000	2431977	0.50000	0.51	0.00- 20.00	57.67	CO
7.442	7.443	-0.001	1492830	0.50000	0.51	0.00- 20.00	35.40	CO
7.901	7.901	0.000	1408195	0.50000	0.53	0.00- 20.00	33.40	CO
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5248206	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

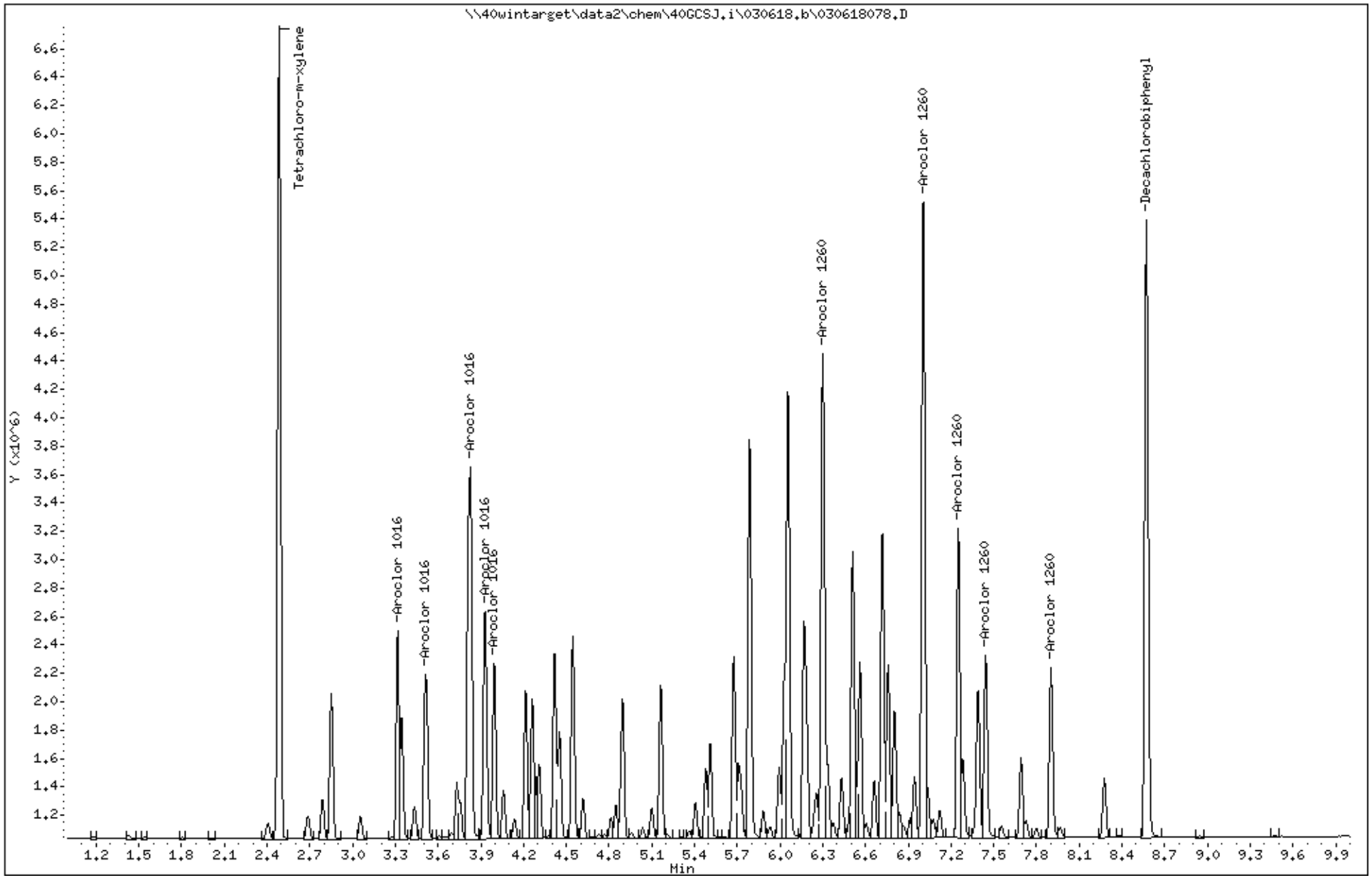
QC Flag Legend

Review Codes Legend

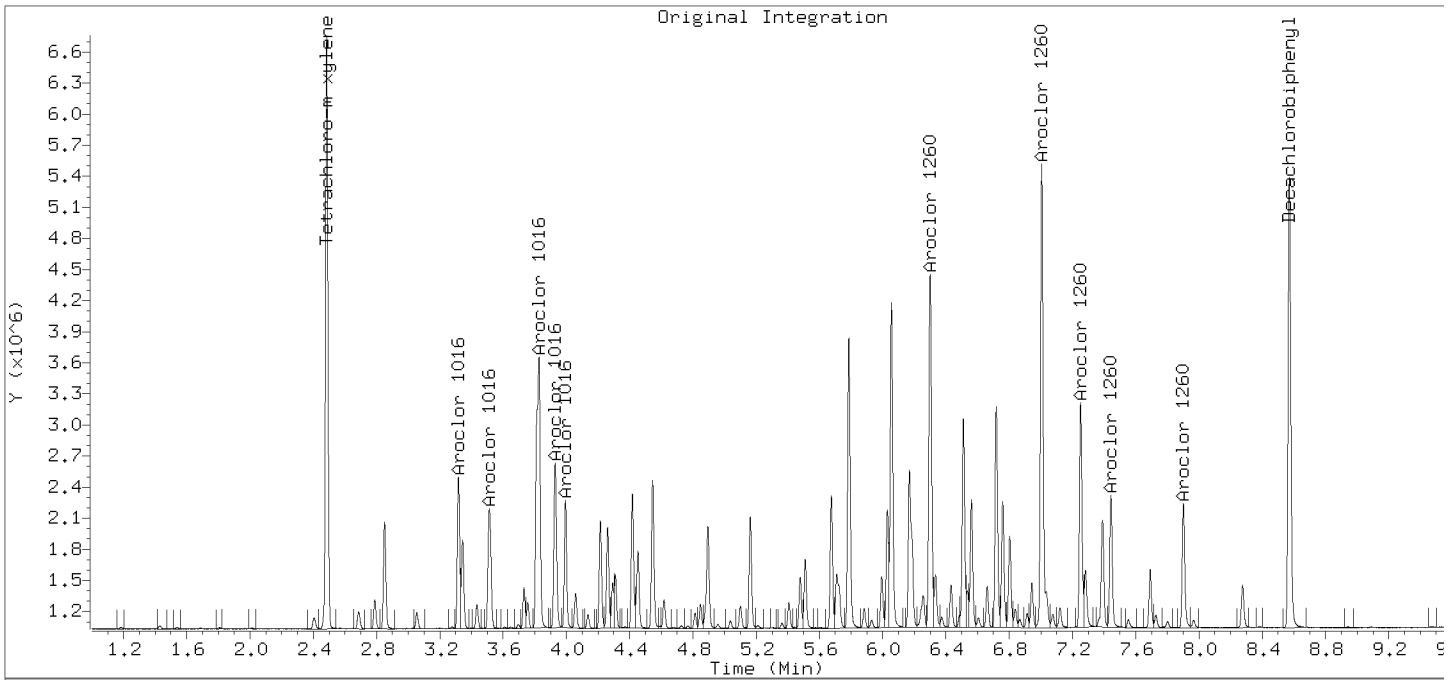
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

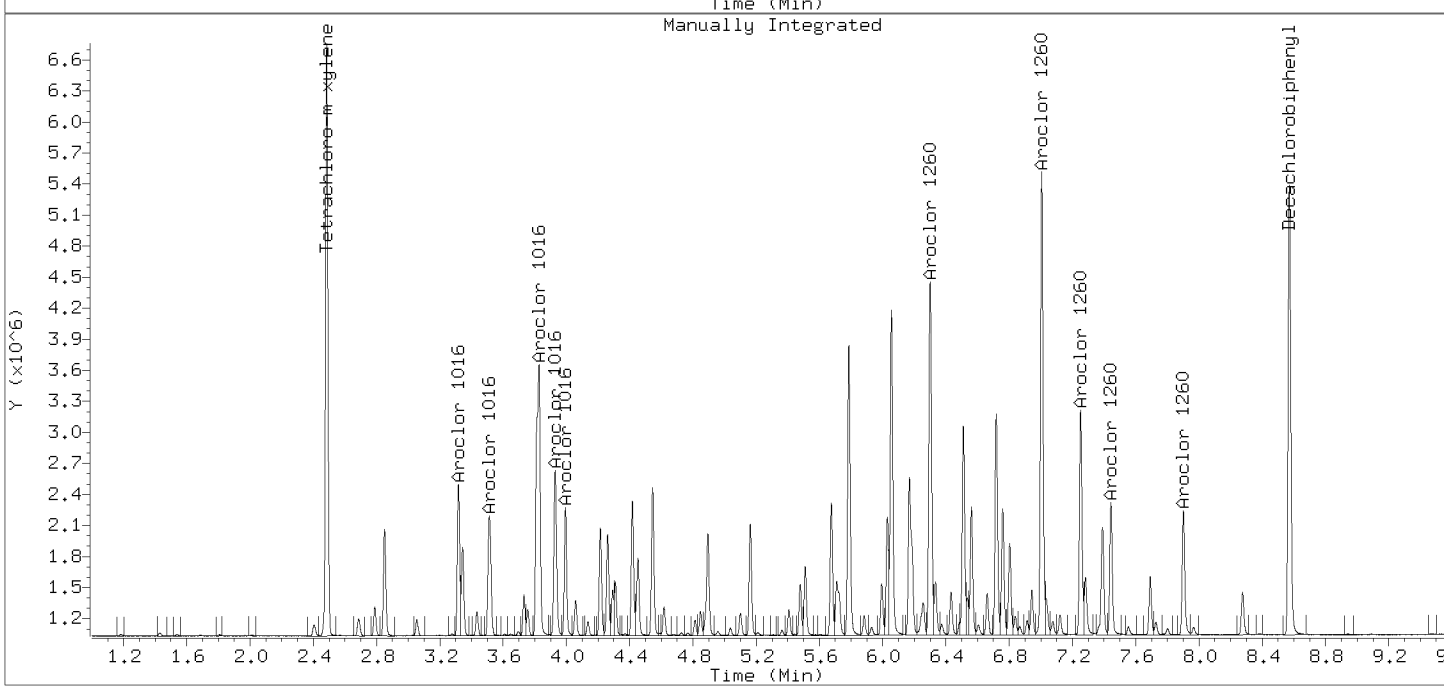
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618078.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Tetrachloro-m-xylene	5932090	5932090	
Decachlorobiphenyl	5248206	5248206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	47537	36386	0.765	0.12		
1.431	34071	30996	0.910	0.08		
1.537	23782	16295	0.685	0.06		
1.686	19523	18852	0.966	0.05		
1.804	13553	12000	0.885	0.03		
2.010	25710	17582	0.684	0.06		
2.405	122316	91466	0.748	0.31		
2.484	5969109	5729938	0.960	15.88	$ 2 Tetrachloro-m-xylene	
2.687	171691	142551	0.830	0.44		
2.788	266038	251563	0.946	0.69		
2.850	928130	860330	0.927	2.41		
3.030	9298	9246	0.994	0.02		
3.054	137243	126924	0.925	0.35		
3.277	24967	18499	0.741	0.06		
3.318	1276490	1191897	0.934	3.31	3 Aroclor 1242	BA
3.344	727563	683689	0.940	1.89		
3.435	202188	182850	0.904	0.52		
3.513	1261881	906771	0.719	3.27	3 Aroclor 1242	BA
3.609	20578	18722	0.910	0.05		
3.645	20839	16895	0.811	0.05		
3.695	35496	37348	1.052	0.09		
3.731	322022	315106	0.979	0.83		
3.755	204643	198166	0.968	0.53		
3.826	3561407	2085011	0.585	9.25	3 Aroclor 1242	BA
3.928	1527637	1243480	0.814	3.97	3 Aroclor 1242	BA
3.994	1022344	971583	0.950	2.65	3 Aroclor 1242	BA
4.059	305638	267848	0.876	0.79		
4.136	120161	106523	0.887	0.31		
4.214	850376	783754	0.922	2.21		
4.261	816845	785877	0.962	2.12		
4.292	318376	350236	1.100	0.82		
4.310	445172	385531	0.866	1.15		
4.370	25042	20782	0.830	0.06		
4.417	1117389	1056118	0.945	2.90		
4.452	871962	643862	0.738	2.26		
4.545	1469124	1329484	0.905	3.81		
4.618	337572	301895	0.894	0.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	22931	18966	0.827	0.05	
4.725	70888	59009	0.832	0.18	
4.769	81572	75761	0.929	0.21	
4.813	668602	635712	0.951	1.73	
4.848	1147158	1078495	0.940	2.98	
4.879	1499236	1086023	0.724	3.89	
4.958	181808	131797	0.725	0.47	
5.037	1216160	1107589	0.911	3.16	
5.099	273516	209972	0.768	0.71	
5.162	310249	275455	0.888	0.80	
5.213	234347	209922	0.896	0.60	
5.286	19361	20123	1.039	0.05	
5.311	57711	45006	0.780	0.15	
5.363	203953	171215	0.839	0.53	
5.406	334512	285150	0.852	0.86	
5.447	218635	182548	0.835	0.56	
5.509	543162	412066	0.759	1.41	
5.604	166982	138964	0.832	0.43	
5.713	39916	27371	0.686	0.10	
5.742	46903	38646	0.824	0.12	
5.792	377948	302875	0.801	0.98	
5.891	46881	33797	0.721	0.12	
5.991	12860	12654	0.984	0.03	
6.025	306599	253744	0.828	0.79	
6.056	66608	54454	0.818	0.17	
6.168	31958	21225	0.664	0.08	
6.226	26828	16286	0.607	0.06	
6.299	102864	85183	0.828	0.26	
6.333	22218	18437	0.830	0.05	
6.376	12987	12359	0.952	0.03	
6.440	12993	9648	0.743	0.03	
6.538	39899	30451	0.763	0.10	
6.801	23279	19654	0.844	0.06	
7.004	10373	8347	0.805	0.02	
7.130	22022	13808	0.627	0.05	
7.252	16455	10003	0.608	0.04	
7.727	22510	19834	0.881	0.05	
7.801	11567	12711	1.099	0.03	
8.273	51945	38191	0.735	0.13	
8.378	24040	17476	0.727	0.06	
8.570	5170561	4324165	0.836	13.43	$ 12 Decachlorobiphenyl
8.938	27108	15441	0.570	0.07	
9.467	21603	15652	0.725	0.05	
9.960	19905	14335	0.720	0.05	
	38473325	32816576		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5969108	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1276490	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1261880	0.50000	0.50	0.00- 20.00	98.86	BA
3.826	3.827	-0.001	3561406	0.50000	0.50	0.00- 20.00	279.00	BA
3.928	3.929	-0.001	1527637	0.50000	0.50	0.00- 20.00	119.67	BA
3.994	3.995	-0.001	1022343	0.50000	0.50	0.00- 20.00	80.09	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5170560	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

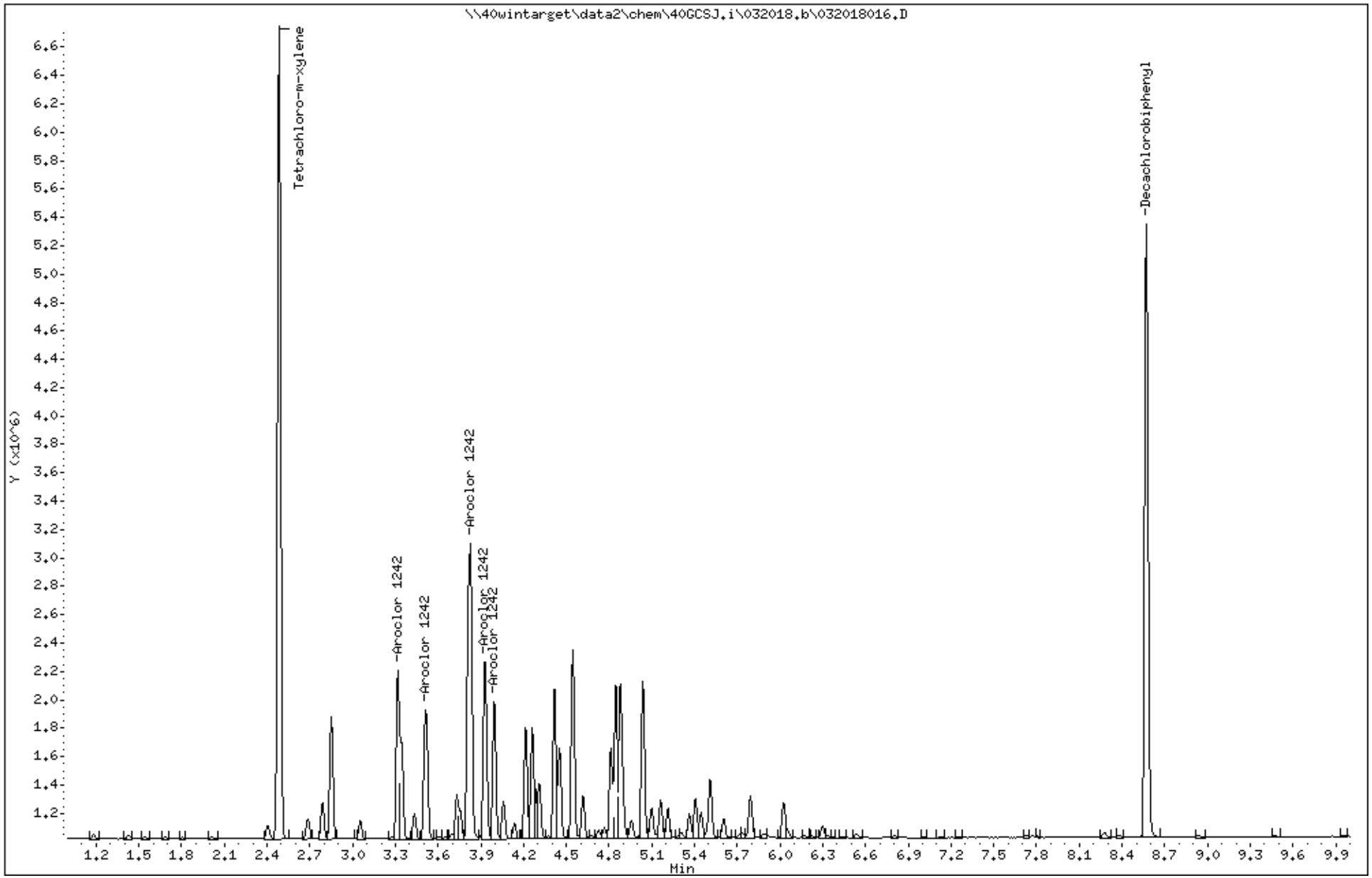
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Date : 20-MAR-2018 16:29
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

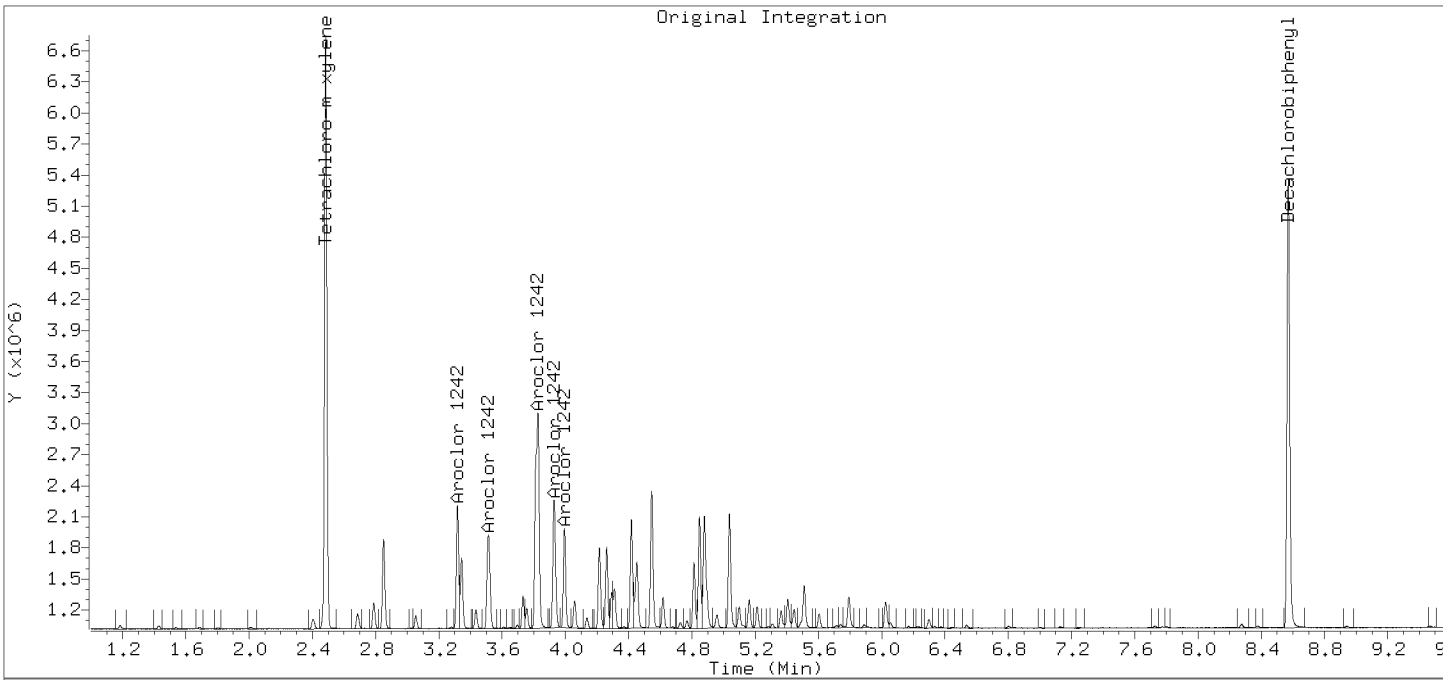
Column phase: ZB-1ms

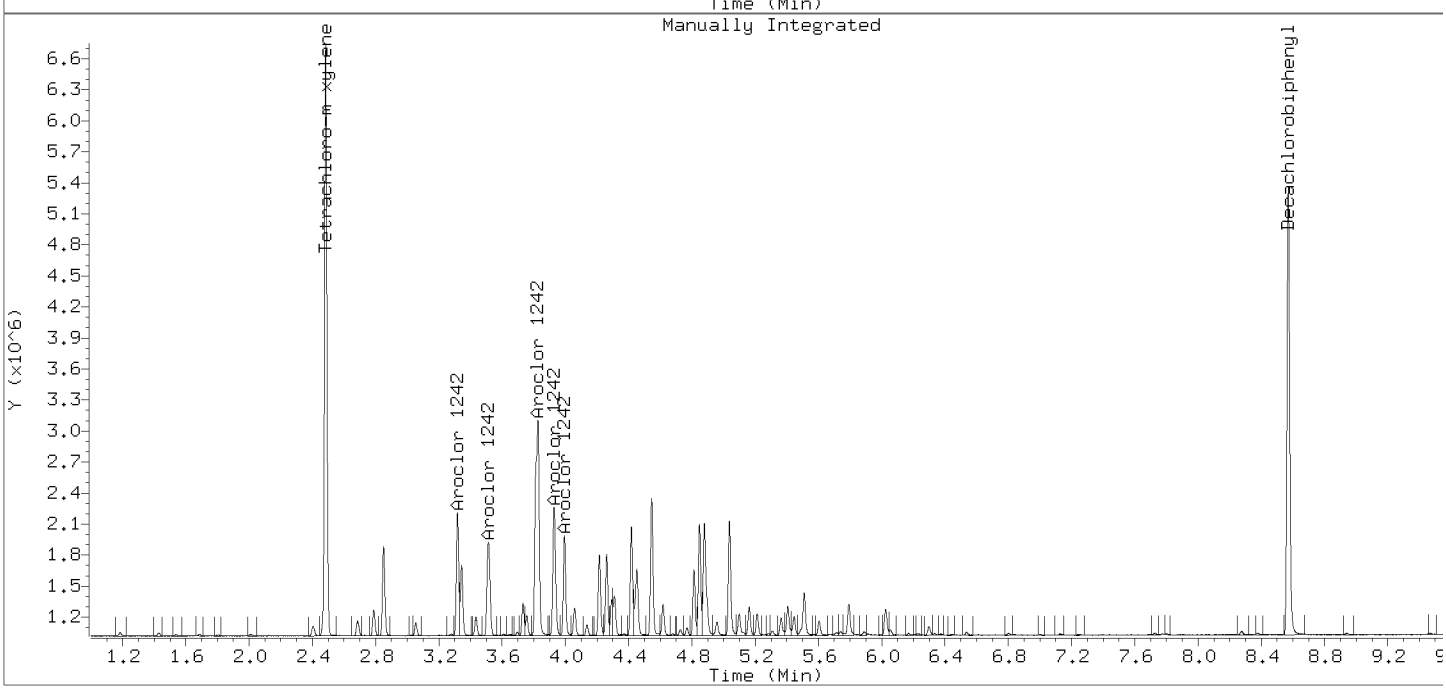
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 20-MAR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Tetrachloro-m-xylene	5969108	5969108	
Decachlorobiphenyl	5170560	5170560	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 20-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	26845	19627	0.731	0.06		
1.429	44298	32220	0.727	0.10		
1.536	17714	14819	0.837	0.04		
1.685	20228	16198	0.801	0.04		
2.009	23262	12693	0.546	0.05		
2.406	25126	19409	0.772	0.05		
2.484	5985102	5625757	0.940	14.02	$ 2 Tetrachloro-m-xylene	
2.684	36648	26192	0.715	0.08		
2.787	113057	104480	0.924	0.25		
2.849	192353	169316	0.880	0.43		
3.029	10404	12208	1.173	0.02		
3.053	59266	54267	0.916	0.13		
3.317	704672	672444	0.954	1.59		
3.343	298847	277232	0.928	0.67		
3.434	65163	59020	0.906	0.14		
3.514	591619	427885	0.723	1.34		
3.612	14316	16374	1.144	0.03		
3.648	12218	8036	0.658	0.02		
3.731	136771	134787	0.985	0.31		
3.754	62009	56481	0.911	0.14		
3.814	1079993	1201131	1.112	2.45		
3.826	1292440	1278810	0.989	2.93		
3.930	897262	690179	0.769	2.03		
3.994	595560	575558	0.966	1.35		
4.058	345569	308745	0.893	0.78		
4.135	146316	130649	0.893	0.33		
4.214	1484117	1387782	0.935	3.36		
4.261	1185176	1113251	0.939	2.68	6 Aroclor 1248	BA
4.293	474727	492723	1.038	1.07		
4.309	533632	494140	0.926	1.21		
4.417	1806540	1680321	0.930	4.09		
4.451	903053	770702	0.853	2.04		
4.545	2073327	1869030	0.901	4.70	6 Aroclor 1248	BA
4.588	32321	33960	1.051	0.07		
4.617	477358	433086	0.907	1.08		
4.681	31142	21409	0.687	0.07		
4.728	64357	50493	0.785	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	112351	104099	0.927	0.25	
4.812	1021016	965123	0.945	2.31	6 Aroclor 1248
4.847	1969906	1832720	0.930	4.47	
4.879	2542829	1673313	0.658	5.77	6 Aroclor 1248
4.957	309539	248209	0.802	0.70	
5.037	1808870	1620476	0.896	4.10	6 Aroclor 1248
5.098	651725	520676	0.799	1.47	
5.162	773289	687431	0.889	1.75	
5.212	559032	501854	0.898	1.26	
5.284	44393	39223	0.884	0.10	
5.307	121920	104021	0.853	0.27	
5.363	492683	421348	0.855	1.11	
5.406	811430	714789	0.881	1.84	
5.445	505282	437293	0.865	1.14	
5.509	1357895	1090191	0.803	3.08	
5.604	392423	334758	0.853	0.89	
5.675	51459	41343	0.803	0.11	
5.715	84062	63941	0.761	0.19	
5.739	98889	88417	0.894	0.22	
5.791	946988	742231	0.784	2.14	
5.890	129821	77388	0.596	0.29	
5.993	33491	29394	0.878	0.07	
6.023	759713	651878	0.858	1.72	
6.054	160165	132921	0.830	0.36	
6.168	85208	54003	0.634	0.19	
6.227	57224	29727	0.519	0.12	
6.299	237304	196726	0.829	0.53	
6.331	49336	39719	0.805	0.11	
6.372	43775	29932	0.684	0.09	
6.436	25900	15406	0.595	0.05	
6.509	42096	37093	0.881	0.09	
6.536	94671	65534	0.692	0.21	
6.601	15476	12447	0.804	0.03	
6.718	42063	33590	0.799	0.09	
6.759	21567	17514	0.812	0.04	
6.802	38319	32726	0.854	0.08	
6.843	12703	11632	0.916	0.02	
7.004	74850	62324	0.833	0.16	
7.127	13875	9887	0.713	0.03	
7.251	25433	23576	0.927	0.05	
7.388	32651	27935	0.856	0.07	
7.442	32090	29279	0.912	0.07	
7.687	17429	13430	0.771	0.03	
7.727	29025	24210	0.834	0.06	
7.768	11538	8089	0.701	0.02	
7.799	21755	15904	0.731	0.04	
7.903	25487	22957	0.901	0.05	
8.275	61398	49178	0.801	0.13	
8.380	20081	14778	0.736	0.04	
8.571	5325725	4487616	0.843	12.08	$ 12 Decachlorobiphenyl
8.936	9665	9064	0.938	0.02	
	44068623	38788727		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 20-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	5985102	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1185176	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2073327	0.50000	0.50	0.00- 20.00	174.94	BA
4.811	4.812	-0.001	1021015	0.50000	0.50	0.00- 20.00	86.15	BA
4.879	4.879	0.000	2542828	0.50000	0.50	0.00- 20.00	214.55	BA
5.036	5.038	-0.002	1808869	0.50000	0.50	0.00- 20.00	152.62	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5325724	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D

Date : 20-MAR-2018 19:39

Client ID: 1248-CCV

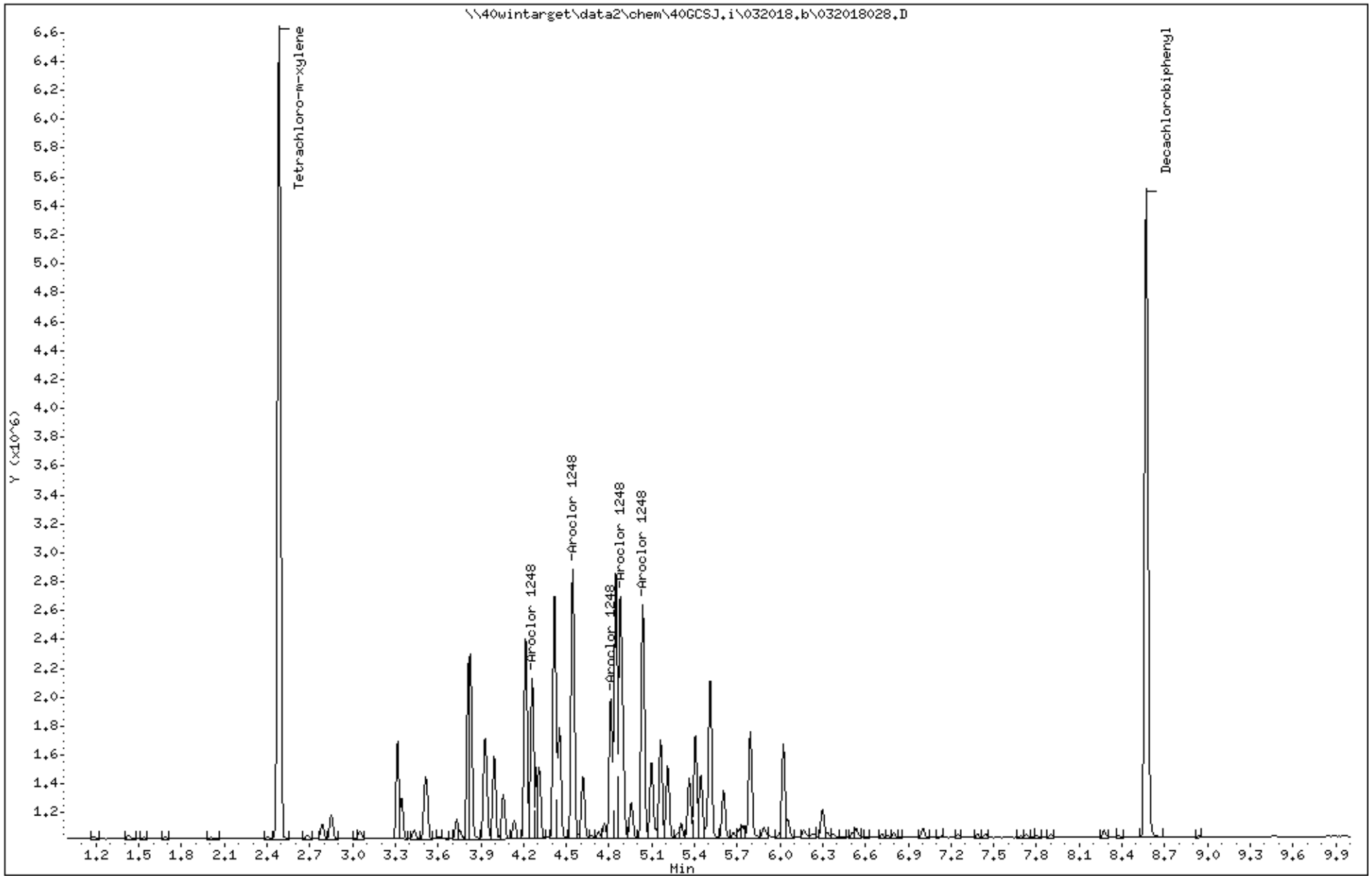
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

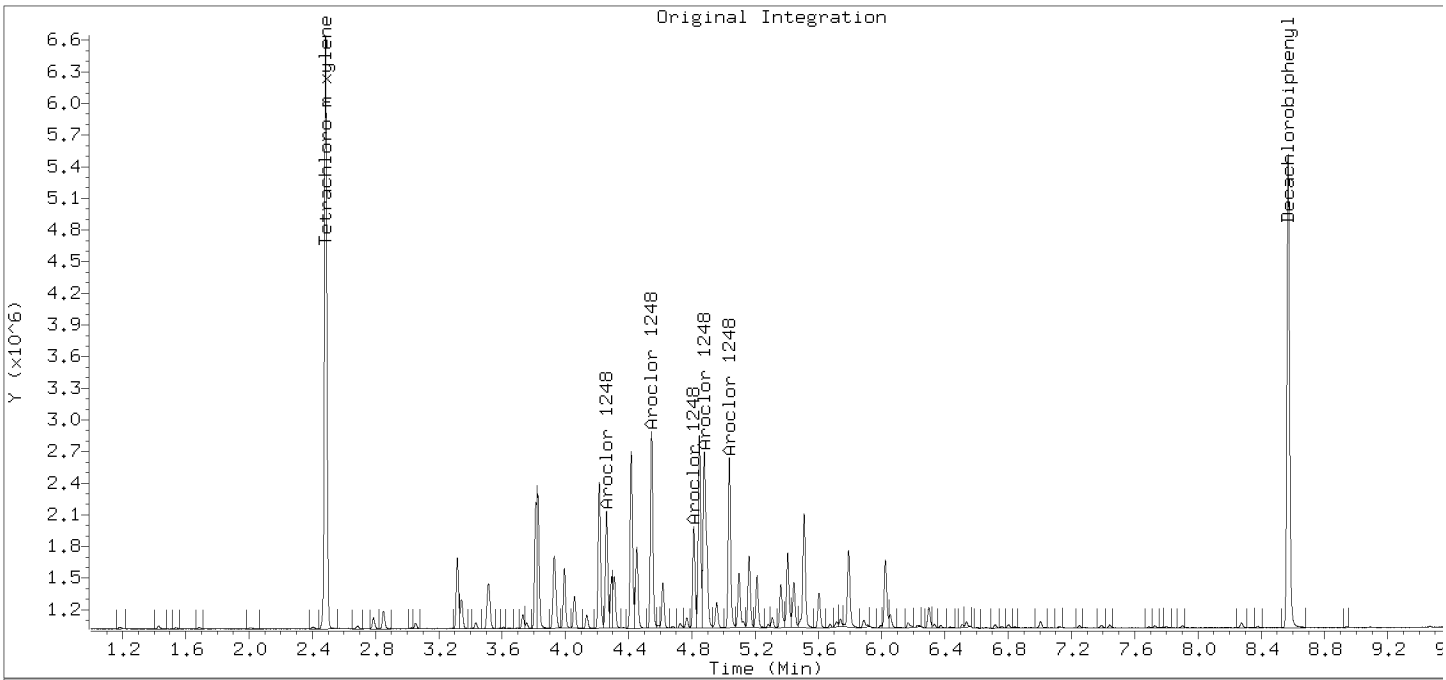
Operator: BLM

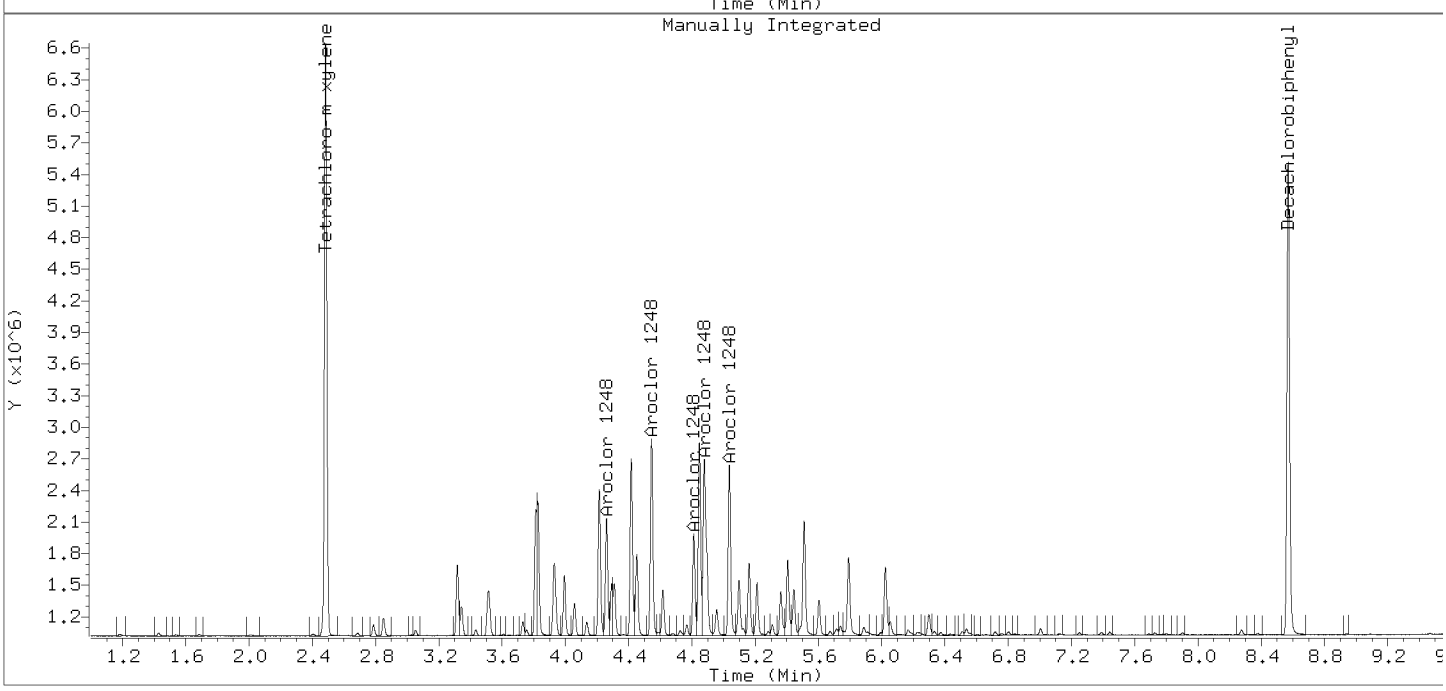
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 20-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Tetrachloro-m-xylene	5985102	5985102	
Decachlorobiphenyl	5325724	5325724	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 20-MAR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	24210	15793	0.652	0.04		
1.427	39574	31894	0.806	0.07		
1.541	19593	13642	0.696	0.03		
1.686	17638	14956	0.848	0.03		
2.016	10301	8638	0.839	0.01		
2.484	6094067	5721654	0.939	11.72	$ 2 Tetrachloro-m-xylene	
2.785	95433	84181	0.882	0.17		
2.852	23953	18967	0.792	0.04		
3.052	20325	18773	0.924	0.03		
3.318	35061	31529	0.899	0.06		
3.344	24472	19661	0.803	0.04		
3.510	21570	19077	0.884	0.03		
3.609	21094	19827	0.940	0.03		
3.732	9411	10274	1.092	0.01		
3.775	14024	13209	0.942	0.02		
3.815	107988	59128	0.548	0.19		
3.932	62699	41564	0.663	0.11		
3.993	33073	26935	0.814	0.06		
4.053	29761	22664	0.762	0.05		
4.215	1245578	1184178	0.951	2.30		
4.261	333154	323509	0.971	0.61		
4.291	66178	47703	0.721	0.12		
4.416	769262	738576	0.960	1.42		
4.451	75247	67932	0.903	0.13		
4.545	342776	326448	0.952	0.63		
4.592	14556	14398	0.989	0.02		
4.616	62946	55454	0.881	0.11		
4.680	24001	16535	0.689	0.04		
4.734	10434	8405	0.806	0.01		
4.768	19561	19144	0.979	0.03		
4.812	294542	288994	0.981	0.54		
4.847	1137586	1078352	0.948	2.10		
4.894	2442272	1960740	0.803	4.51		
4.956	391332	349014	0.892	0.72		
5.036	244264	224764	0.920	0.45		
5.098	1436813	1236846	0.861	2.65		
5.162	2644481	2429274	0.919	4.88	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.211	1210379	1090986	0.901	2.23	
5.283	59157	59779	1.011	0.10	
5.308	219031	203594	0.930	0.40	
5.362	1054973	994765	0.943	1.94	
5.406	2194746	1952680	0.890	4.05	7 Aroclor 1254
5.444	747044	676143	0.905	1.38	
5.476	267616	258054	0.964	0.49	
5.508	3940256	3590268	0.911	7.28	7 Aroclor 1254
5.603	544991	491809	0.902	1.00	
5.674	349640	321180	0.919	0.64	
5.712	543021	356838	0.657	1.00	
5.740	347064	282980	0.815	0.64	
5.789	4005882	3172500	0.792	7.40	
5.884	347244	275897	0.795	0.64	
5.926	180985	115351	0.637	0.33	
5.993	333795	322046	0.965	0.61	
6.026	2558090	2159666	0.844	4.72	7 Aroclor 1254
6.055	1784876	1497071	0.839	3.29	
6.167	714968	628587	0.879	1.32	
6.226	564755	299107	0.530	1.04	
6.298	3353644	2889054	0.861	6.19	7 Aroclor 1254
6.333	589732	531852	0.902	1.08	
6.373	329457	292689	0.888	0.60	
6.437	82019	51901	0.633	0.15	
6.509	123524	125334	1.015	0.22	
6.534	1144279	868284	0.759	2.11	
6.604	161987	137884	0.851	0.29	
6.659	26285	22206	0.845	0.04	
6.717	219555	196215	0.894	0.40	
6.758	132397	118585	0.896	0.24	
6.800	637391	584918	0.918	1.17	
6.842	163660	118998	0.727	0.30	
6.943	60075	48685	0.810	0.11	
7.004	452664	385952	0.853	0.83	
7.073	25117	21921	0.873	0.04	
7.251	373449	340614	0.912	0.69	
7.282	77751	68448	0.880	0.14	
7.328	11545	8102	0.702	0.02	
7.392	20042	15764	0.787	0.03	
7.444	23085	21696	0.940	0.04	
7.554	24742	17121	0.692	0.04	
7.693	15347	14654	0.955	0.02	
7.728	30182	24582	0.814	0.05	
7.777	12934	11072	0.856	0.02	
7.801	13560	13242	0.977	0.02	
7.898	24908	21472	0.862	0.04	
8.274	49124	43900	0.894	0.09	
8.378	24095	16982	0.705	0.04	
8.570	5550288	4667139	0.841	10.25	$ 12 Decachlorobiphenyl
8.938	31635	20672	0.653	0.05	
9.087	10692	9027	0.844	0.01	
9.462	44655	26902	0.602	0.08	
9.957	53890	34380	0.638	0.09	
	54121455	47082180		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 20-MAR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.483	2.484	-0.001	6094067	0.05000	0.049			
7 Aroclor 1254						CAS #: 11097-69-1		
5.162	5.162	0.000	2644480	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2194746	0.50000	0.51	0.00- 20.00	82.99	BA
5.508	5.510	-0.002	3940255	0.50000	0.51	0.00- 20.00	149.00	BA
6.025	6.027	-0.002	2558089	0.50000	0.52	0.00- 20.00	96.73	BA
6.297	6.299	-0.002	3353644	0.50000	0.52	0.00- 20.00	126.82	BA
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5550288	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

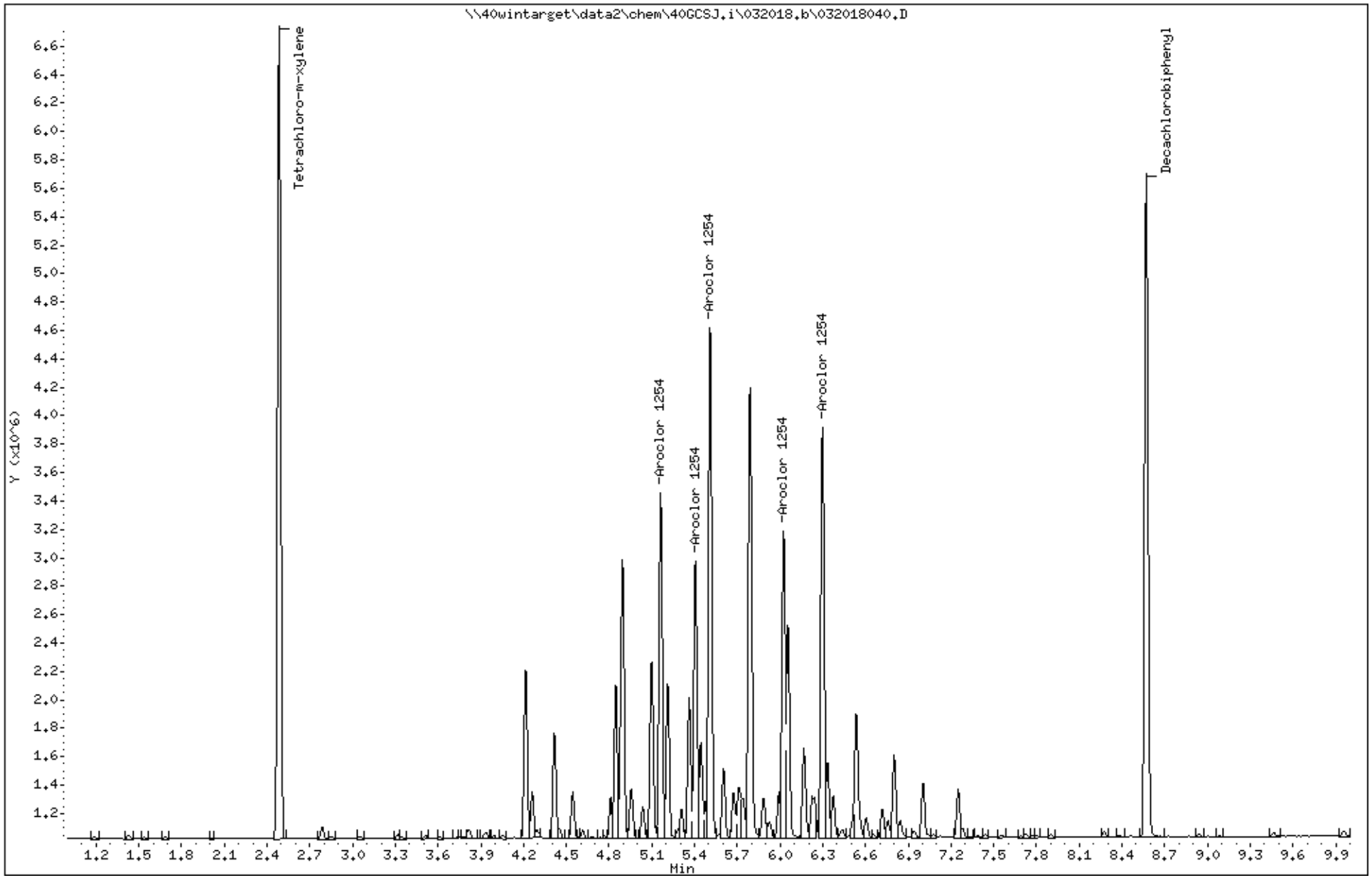
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018040.D
Date : 20-MAR-2018 22:49
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i

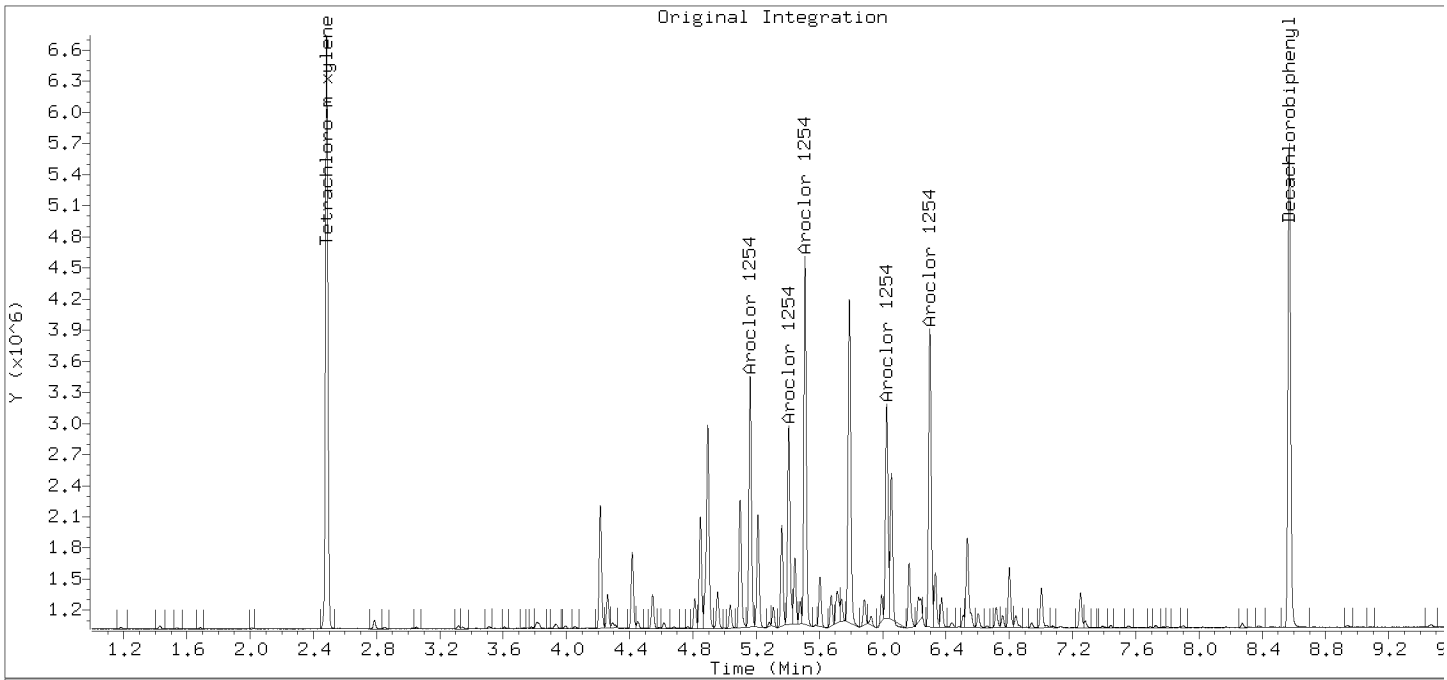
Operator: BLM

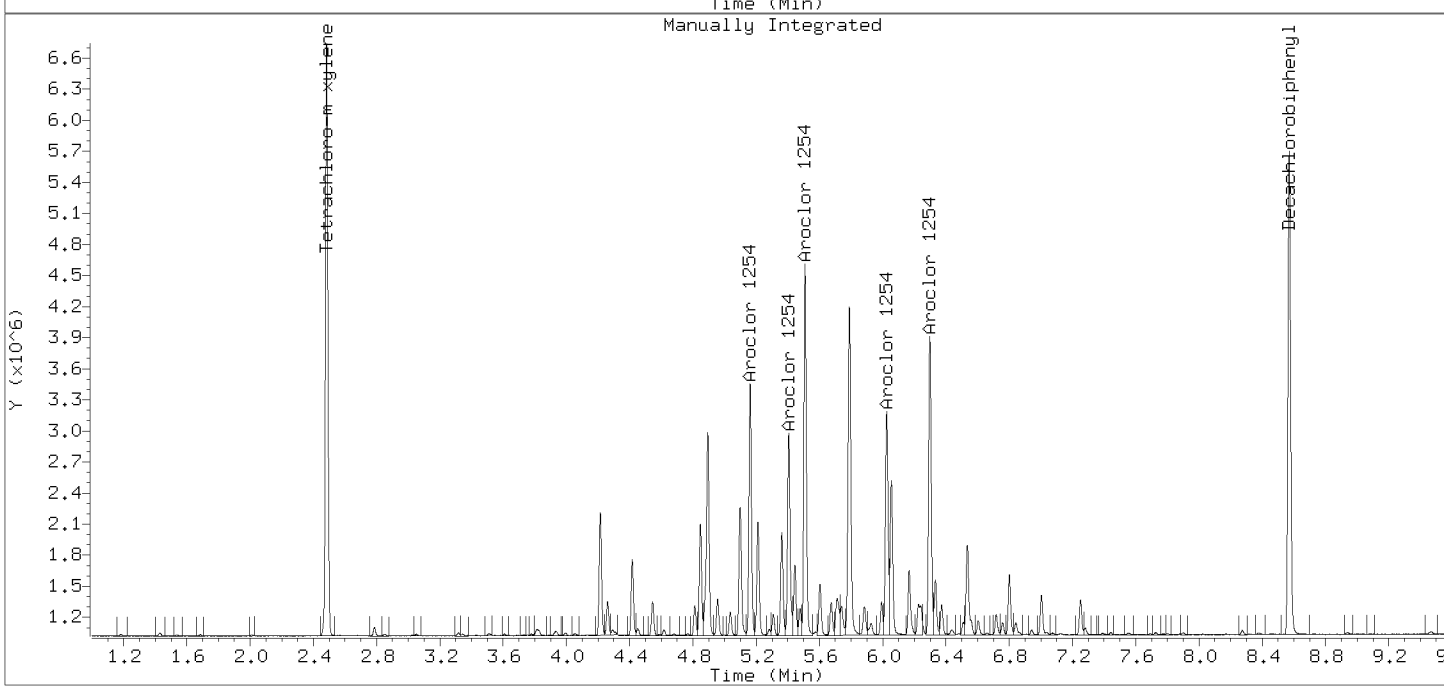
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018040.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 20-MAR-2018 22:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Tetrachloro-m-xylene	6094067	6094067	
Decachlorobiphenyl	5550288	5550288	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 23-MAR-2018 13:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	32893	27110	0.824	0.08		
1.428	37394	31958	0.855	0.09		
1.539	16598	14747	0.888	0.04		
1.686	23584	18128	0.769	0.06		
1.803	14604	14323	0.981	0.03		
2.005	16032	15095	0.942	0.04		
2.405	122496	94361	0.770	0.32		
2.484	5946632	5683844	0.956	15.98	$ 2 Tetrachloro-m-xylene	
2.687	174431	141980	0.814	0.45		
2.789	269897	248881	0.922	0.70		
2.851	939075	875293	0.932	2.45		
3.027	13636	14781	1.084	0.03		
3.055	147889	129725	0.877	0.38		
3.278	23815	18608	0.781	0.06		
3.318	1273327	1172545	0.921	3.33	3 Aroclor 1242	BA
3.343	734910	672570	0.915	1.92		
3.435	202624	185209	0.914	0.53		
3.513	1264030	924351	0.731	3.30	3 Aroclor 1242	BA
3.607	23664	18872	0.798	0.06		
3.644	24706	16241	0.657	0.06		
3.698	37740	33755	0.894	0.09		
3.731	322454	318269	0.987	0.84		
3.755	208417	195131	0.936	0.54		
3.826	3533471	2060501	0.583	9.25	3 Aroclor 1242	BA
3.930	1514268	1258643	0.831	3.96	3 Aroclor 1242	BA
3.994	1005836	991775	0.986	2.63	3 Aroclor 1242	BA
4.058	299425	276108	0.922	0.78		
4.136	120708	103795	0.860	0.31		
4.215	851335	801816	0.942	2.22		
4.261	816591	777718	0.952	2.13		
4.293	330755	348381	1.053	0.86		
4.311	428433	389836	0.910	1.12		
4.370	26701	20647	0.773	0.06		
4.417	1127491	1059075	0.939	2.95		
4.452	849415	642946	0.757	2.22		
4.545	1442254	1322877	0.917	3.77		
4.591	18639	20541	1.102	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	328515	301908	0.919	0.86	
4.678	26421	21129	0.800	0.06	
4.726	68705	60644	0.883	0.17	
4.768	78823	75727	0.961	0.20	
4.812	660685	658004	0.996	1.72	
4.847	1147057	1072305	0.935	3.00	
4.878	1462736	1088347	0.744	3.82	
4.957	167512	131680	0.786	0.43	
5.037	1194342	1118303	0.936	3.12	
5.098	265788	203956	0.767	0.69	
5.162	305543	274114	0.897	0.79	
5.212	230477	208824	0.906	0.60	
5.282	15278	16820	1.101	0.03	
5.308	53638	44394	0.828	0.14	
5.363	195199	169937	0.871	0.51	
5.406	337862	280025	0.829	0.88	
5.446	202883	181033	0.892	0.53	
5.510	530257	405334	0.764	1.38	
5.604	158370	141871	0.896	0.41	
5.714	34467	24765	0.719	0.09	
5.741	40221	38034	0.946	0.10	
5.792	356616	302276	0.848	0.93	
5.889	51029	34741	0.681	0.13	
6.024	301412	266204	0.883	0.78	
6.053	55448	49322	0.890	0.14	
6.169	23755	17488	0.736	0.06	
6.298	102823	84926	0.826	0.26	
6.334	25129	20077	0.799	0.06	
6.373	19136	13970	0.730	0.05	
6.535	41772	33129	0.793	0.10	
6.802	24905	19850	0.797	0.06	
7.002	11894	10392	0.874	0.03	
7.126	18242	11412	0.626	0.04	
7.257	10073	8752	0.869	0.02	
7.726	25564	23906	0.935	0.06	
7.801	28779	19464	0.676	0.07	
8.275	53901	43962	0.816	0.14	
8.378	21616	14371	0.665	0.05	
8.569	5214021	4558881	0.874	13.65	$ 12 Decachlorobiphenyl
8.937	21766	12334	0.567	0.05	
9.460	13149	8237	0.626	0.03	
9.565	13335	8956	0.672	0.03	
9.604	9279	8385	0.904	0.02	
9.958	12175	10153	0.834	0.03	
	38196772	33038778		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 23-MAR-2018 13:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5946632	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1273327	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1264030	0.50000	0.50	0.00- 20.00	99.27	BA
3.826	3.827	-0.001	3533471	0.50000	0.50	0.00- 20.00	277.50	BA
3.929	3.929	0.000	1514268	0.50000	0.50	0.00- 20.00	118.92	BA
3.994	3.995	-0.001	1005836	0.50000	0.49	0.00- 20.00	78.99	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5214020	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318004.D

Date : 23-MAR-2018 13:25

Client ID: 1242-CCV

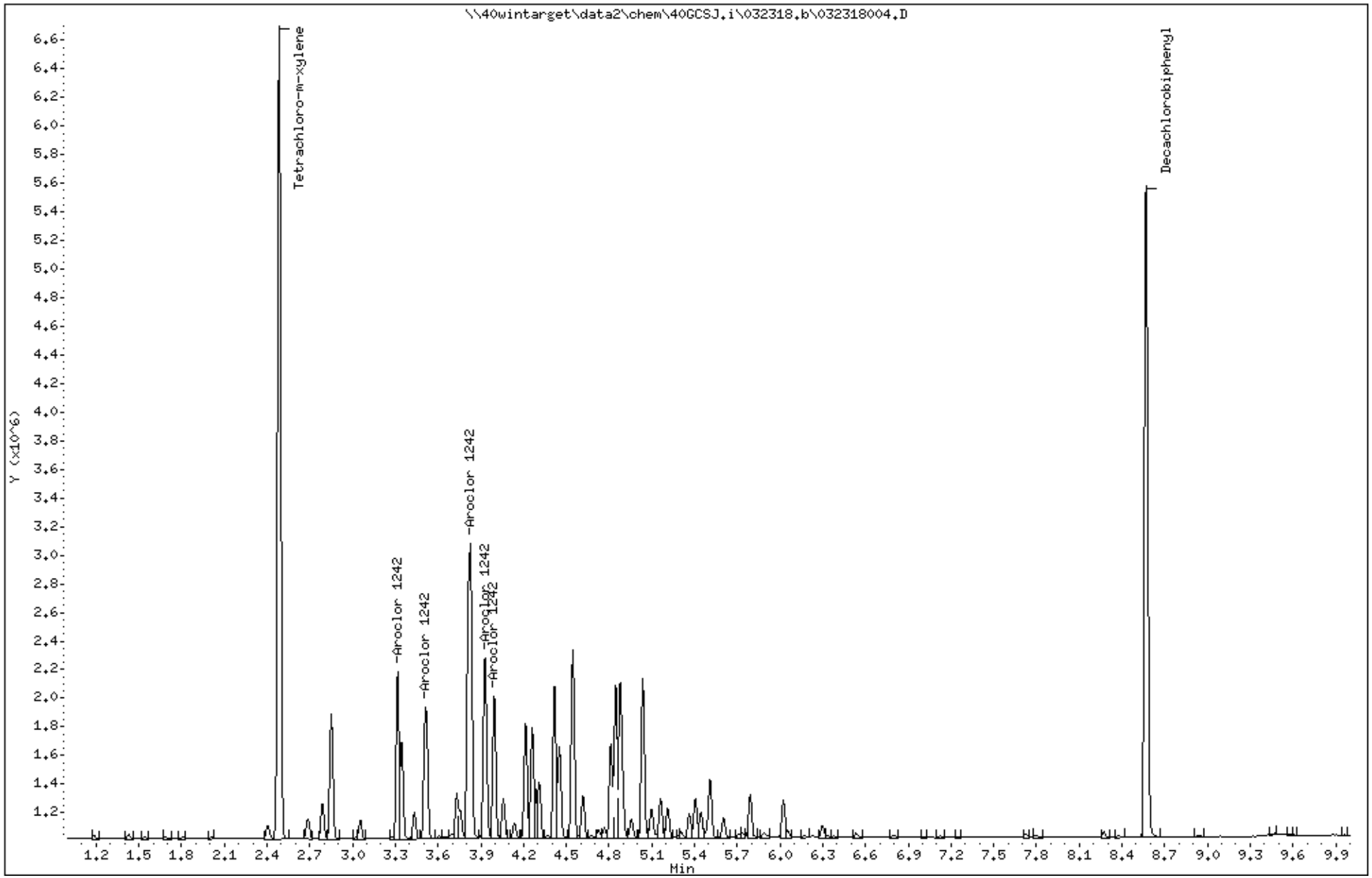
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

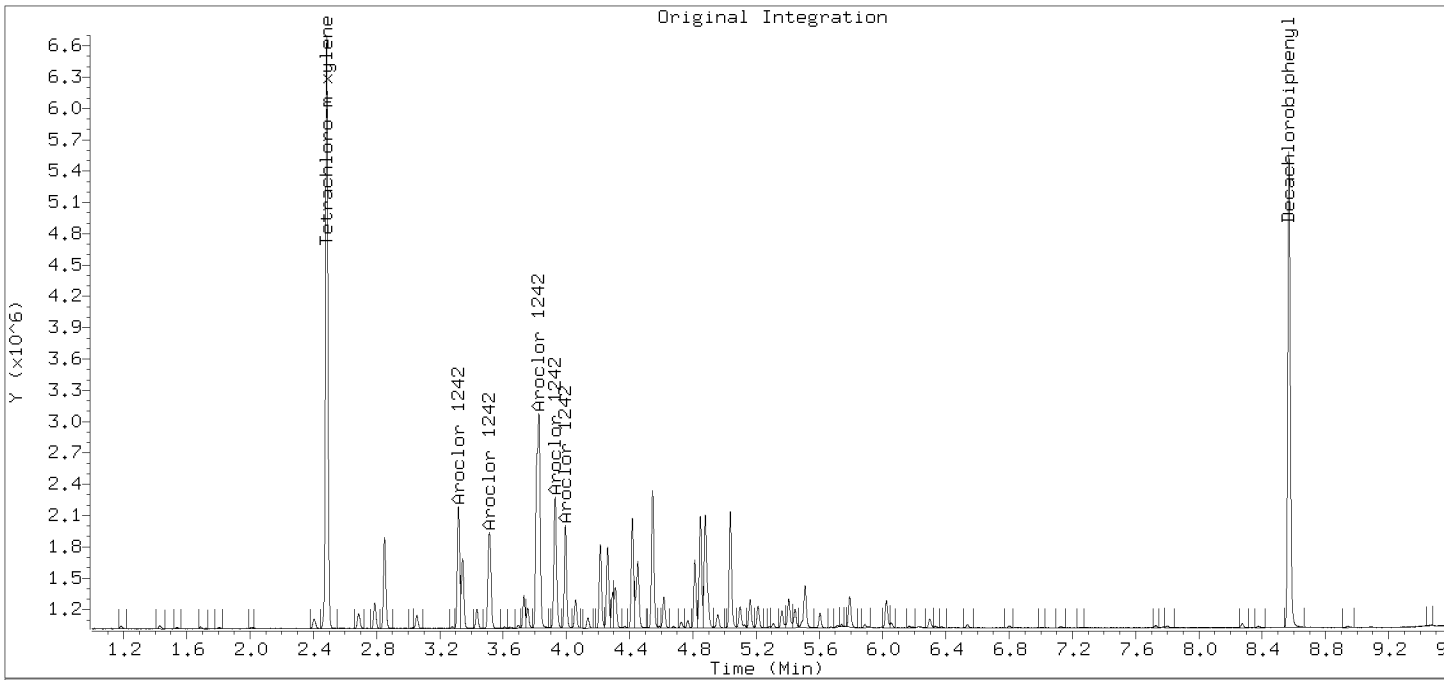
Operator: BLM

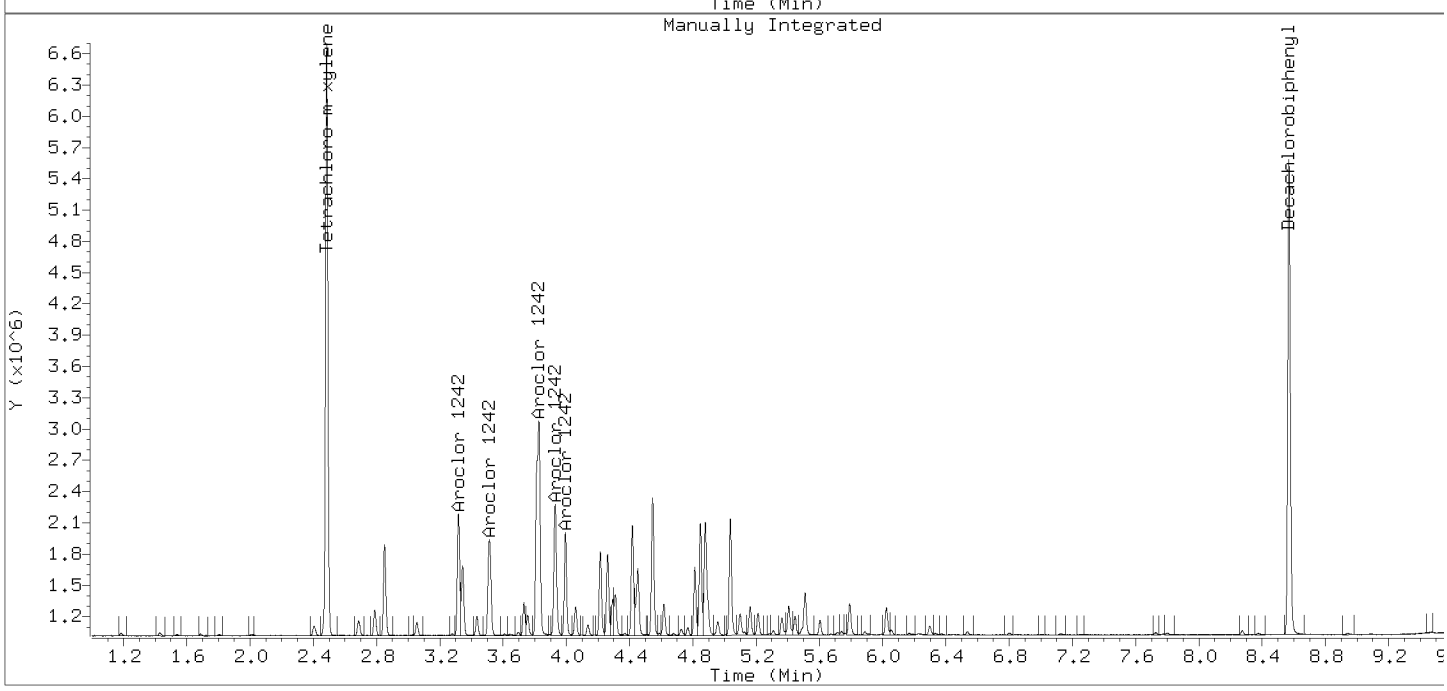
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318004.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 23-MAR-2018 13:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Aroclor 1242	1266311	1273327	BA
Tetrachloro-m-xylene	5946632	5946632	
Decachlorobiphenyl	5214020	5214020	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 23-MAR-2018 16:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	50326	40779	0.810	0.11		
1.428	39453	31471	0.798	0.08		
1.538	14952	14626	0.978	0.03		
1.687	25649	20033	0.781	0.05		
2.009	35076	25687	0.732	0.07		
2.405	23586	19253	0.816	0.05		
2.485	6135153	5890580	0.960	13.86	$ 2 Tetrachloro-m-xylene	
2.688	34003	25656	0.755	0.07		
2.786	116317	110894	0.953	0.25		
2.850	191220	176225	0.922	0.41		
3.029	16186	16721	1.033	0.03		
3.053	62260	55069	0.885	0.13		
3.317	733671	704753	0.961	1.60		
3.343	305681	291072	0.952	0.66		
3.434	66079	61276	0.927	0.14		
3.514	608255	438100	0.720	1.33		
3.608	18804	17327	0.921	0.04		
3.644	10792	7801	0.723	0.02		
3.731	141886	138962	0.979	0.31		
3.756	61805	58609	0.948	0.13		
3.812	1006734	1284453	1.276	2.20		
3.825	1449958	1326740	0.915	3.17		
3.930	929390	733704	0.789	2.03		
3.994	622483	610322	0.980	1.36		
4.058	354281	331547	0.936	0.77		
4.136	144690	131988	0.912	0.31		
4.214	1533556	1434026	0.935	3.36		
4.261	1221865	1161899	0.951	2.67	6 Aroclor 1248	BA
4.292	496343	524930	1.058	1.08		
4.309	539163	507499	0.941	1.18		
4.417	1866684	1728890	0.926	4.09		
4.451	917860	809164	0.882	2.01		
4.545	2138912	1934703	0.905	4.68	6 Aroclor 1248	BA
4.587	26872	30197	1.124	0.05		
4.616	482389	455918	0.945	1.05		
4.679	24901	21371	0.858	0.05		
4.726	63370	53851	0.850	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	109515	104259	0.952	0.23	
4.812	1080121	1045544	0.968	2.36	6 Aroclor 1248
4.848	2073001	1944696	0.938	4.54	
4.878	2650205	1788271	0.675	5.80	6 Aroclor 1248
4.956	296695	253862	0.856	0.65	
5.037	1898785	1757306	0.925	4.16	6 Aroclor 1248
5.098	652647	537384	0.823	1.43	
5.161	792098	724563	0.915	1.73	
5.211	571721	515601	0.902	1.25	
5.283	37187	39087	1.051	0.08	
5.308	120268	107854	0.897	0.26	
5.362	500101	434533	0.869	1.09	
5.406	844894	744907	0.882	1.85	
5.444	523620	446807	0.853	1.14	
5.509	1397937	1192737	0.853	3.06	
5.603	388512	355362	0.915	0.85	
5.675	46527	39809	0.856	0.10	
5.715	88403	67404	0.762	0.19	
5.738	107516	92653	0.862	0.23	
5.791	991321	822758	0.830	2.17	
5.888	127557	82307	0.645	0.27	
5.994	29675	28565	0.963	0.06	
6.023	821664	722254	0.879	1.80	
6.055	159597	127460	0.799	0.34	
6.167	92015	55214	0.600	0.20	
6.226	55309	30718	0.555	0.12	
6.297	248863	218846	0.879	0.54	
6.332	45757	39439	0.862	0.10	
6.372	39797	31450	0.790	0.08	
6.431	23211	16634	0.717	0.05	
6.509	42286	39778	0.941	0.09	
6.533	96605	71554	0.741	0.21	
6.604	17065	11842	0.694	0.03	
6.717	41198	35787	0.869	0.09	
6.761	20545	18576	0.904	0.04	
6.801	46758	42939	0.918	0.10	
6.843	23321	14401	0.618	0.05	
6.941	10271	9118	0.888	0.02	
7.002	83398	70060	0.840	0.18	
7.124	34901	16072	0.461	0.07	
7.251	26323	25072	0.952	0.05	
7.387	35570	29135	0.819	0.07	
7.440	32676	28746	0.880	0.07	
7.687	15910	14935	0.939	0.03	
7.724	31644	23919	0.756	0.06	
7.773	17352	14650	0.844	0.03	
7.800	22039	16914	0.767	0.04	
7.896	25909	23364	0.902	0.05	
8.274	67736	55460	0.819	0.14	
8.376	26097	17130	0.656	0.05	
8.569	5547528	4737784	0.854	12.15	$ 12 Decachlorobiphenyl
9.085	12188	9256	0.759	0.02	
9.462	14612	11076	0.758	0.03	
9.962	19128	12902	0.674	0.04	
	45636182	40944850		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 23-MAR-2018 16:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6135153	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1221865	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2138911	0.50000	0.52	0.00- 20.00	175.05	BA
4.811	4.812	-0.001	1080121	0.50000	0.53	0.00- 20.00	88.40	BA
4.878	4.879	-0.001	2650204	0.50000	0.53	0.00- 20.00	216.90	BA
5.036	5.038	-0.002	1898785	0.50000	0.53	0.00- 20.00	155.40	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5547527	0.05000	0.051			

QC Flag Legend

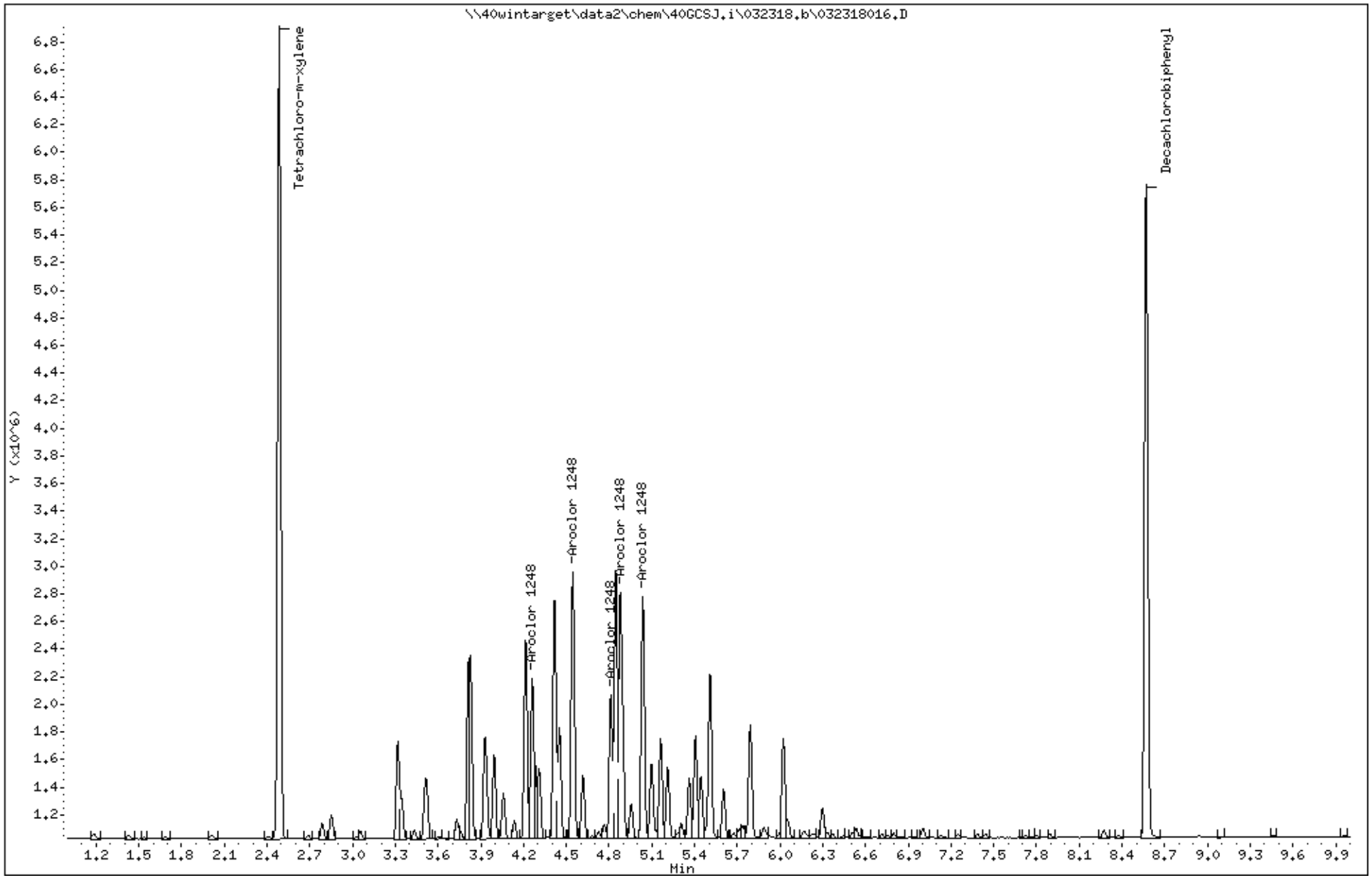
M - Compound response manually integrated.

Review Codes Legend

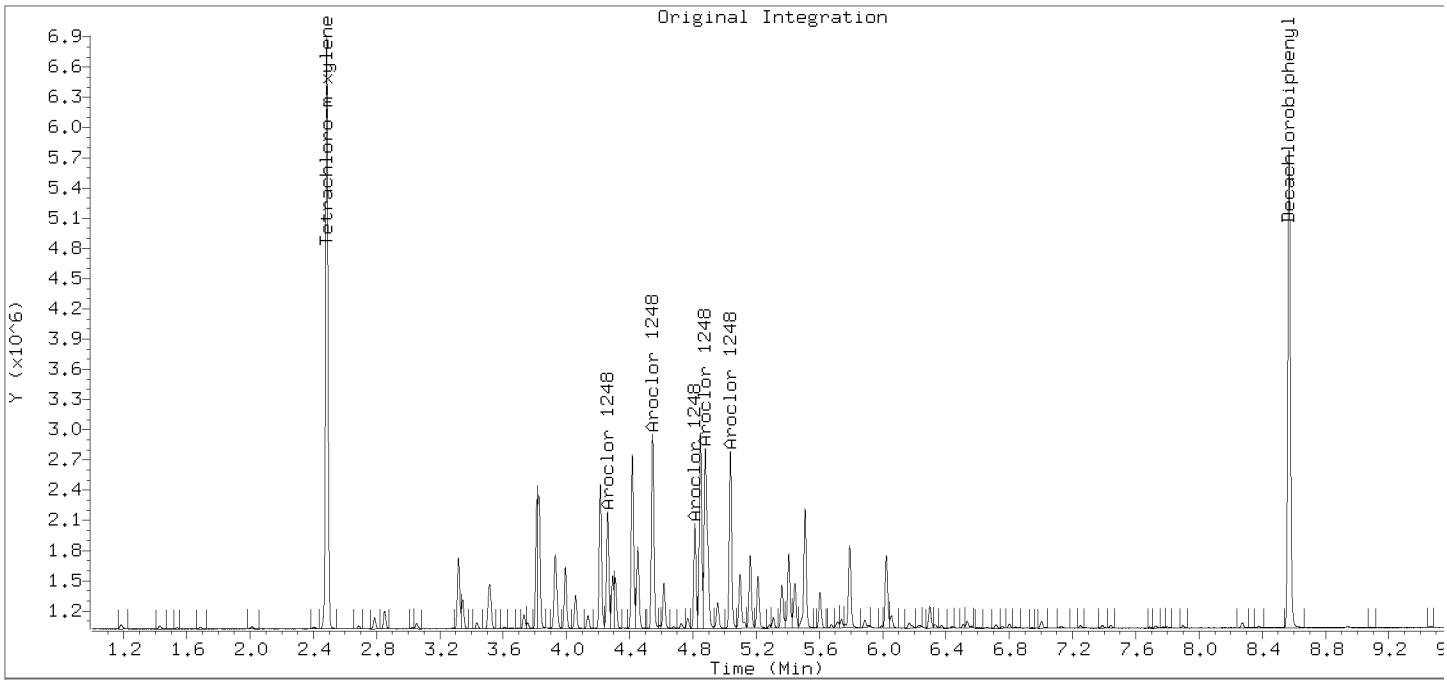
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

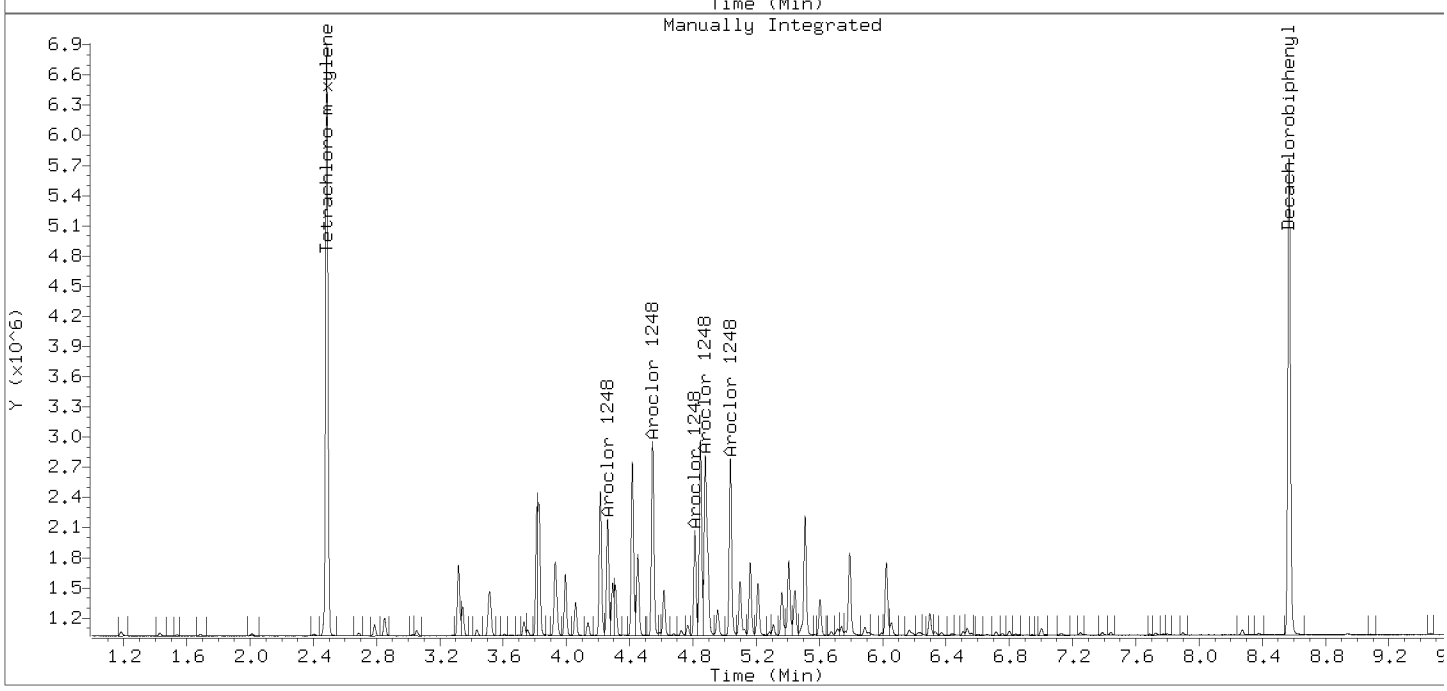
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D
Date : 23-MAR-2018 16:35
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318016.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 23-MAR-2018 16:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Aroclor 1248	1212883	1221865	BA
Tetrachloro-m-xylene	6135153	6135153	
Decachlorobiphenyl	5547527	5547527	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 27-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.187	37014	26668	0.720	0.22			
1.429	37222	27990	0.752	0.22			
1.538	19953	15050	0.754	0.11			
1.688	14231	12742	0.895	0.08			
1.805	486527	399135	0.820	2.91		1 Aroclor 1221	BA
2.014	26511	19260	0.727	0.15			
2.198	147609	123312	0.835	0.88			
2.408	256624	187397	0.730	1.53		1 Aroclor 1221	BA
2.485	5795649	5308193	0.916	35.05	$	2 Tetrachloro-m-xylene	BA
2.688	646514	524307	0.811	3.87		1 Aroclor 1221	BA
2.790	504173	469852	0.932	3.02		1 Aroclor 1221	BA
2.851	1535121	1329401	0.866	9.19		1 Aroclor 1221	BA
3.028	14392	13827	0.961	0.08			
3.054	34234	29132	0.851	0.20			
3.281	99970	77160	0.772	0.59			
3.324	358876	193551	0.539	2.15			
3.434	38238	30934	0.809	0.22			
3.512	136128	99422	0.730	0.81			
3.609	17339	14690	0.847	0.10			
3.697	13322	11447	0.859	0.07			
3.731	38936	38276	0.983	0.23			
3.755	43575	34039	0.781	0.26			
3.827	295977	177026	0.598	1.77			
3.928	143070	123162	0.861	0.85			
3.994	95620	85957	0.899	0.57			
4.053	37489	30068	0.802	0.22			
4.139	10938	8681	0.794	0.06			
4.217	34568	31358	0.907	0.20			
4.261	30622	30968	1.011	0.18			
4.295	15813	16790	1.062	0.09			
4.311	19761	17760	0.899	0.11			
4.418	39356	39192	0.996	0.23			
4.452	41924	26811	0.640	0.25			
4.546	53650	47382	0.883	0.32			
4.618	16015	13390	0.836	0.09			
4.814	20231	20464	1.012	0.12			
4.848	32628	30088	0.922	0.19			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.882	54197	35366	0.653	0.32	
5.037	34130	28155	0.825	0.20	
5.098	9508	6248	0.657	0.05	
5.162	9686	9042	0.933	0.05	
5.210	9584	7142	0.745	0.05	
5.363	10025	8319	0.830	0.06	
5.410	12662	8090	0.639	0.07	
5.508	18295	11544	0.631	0.10	
6.445	10055	8111	0.807	0.06	
7.126	34224	16900	0.494	0.20	
7.690	11411	8513	0.746	0.06	
7.727	33374	27520	0.825	0.19	
7.778	14115	12695	0.899	0.08	
7.799	35903	25073	0.698	0.21	
8.276	48149	40286	0.837	0.28	
8.373	19835	14856	0.749	0.11	
8.571	4865651	4138474	0.851	29.15	$ 12 Decachlorobiphenyl
8.940	10764	10523	0.978	0.06	
9.470	26715	17347	0.649	0.16	
9.824	15910	17592	1.106	0.09	
9.836	14219	21674	1.524	0.08	
9.858	31236	29002	0.928	0.18	
9.870	20142	33253	1.651	0.12	
9.880	109758	36905	0.336	0.65	
9.959	39510	23688	0.600	0.23	
	16688878	14281200		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 27-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5795649	0.05000	0.047		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	486527	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	256624	0.50000	0.47	0.00- 20.00	52.75	BA
2.688	2.688	0.000	646513	0.50000	0.47	0.00- 20.00	132.88	BA
2.789	2.789	0.000	504172	0.50000	0.46	0.00- 20.00	103.63	BA
2.851	2.851	0.000	1535120	0.50000	0.47	0.00- 20.00	315.53	BA
Average of Peak Amounts =					0.46800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4865650	0.05000	0.044			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

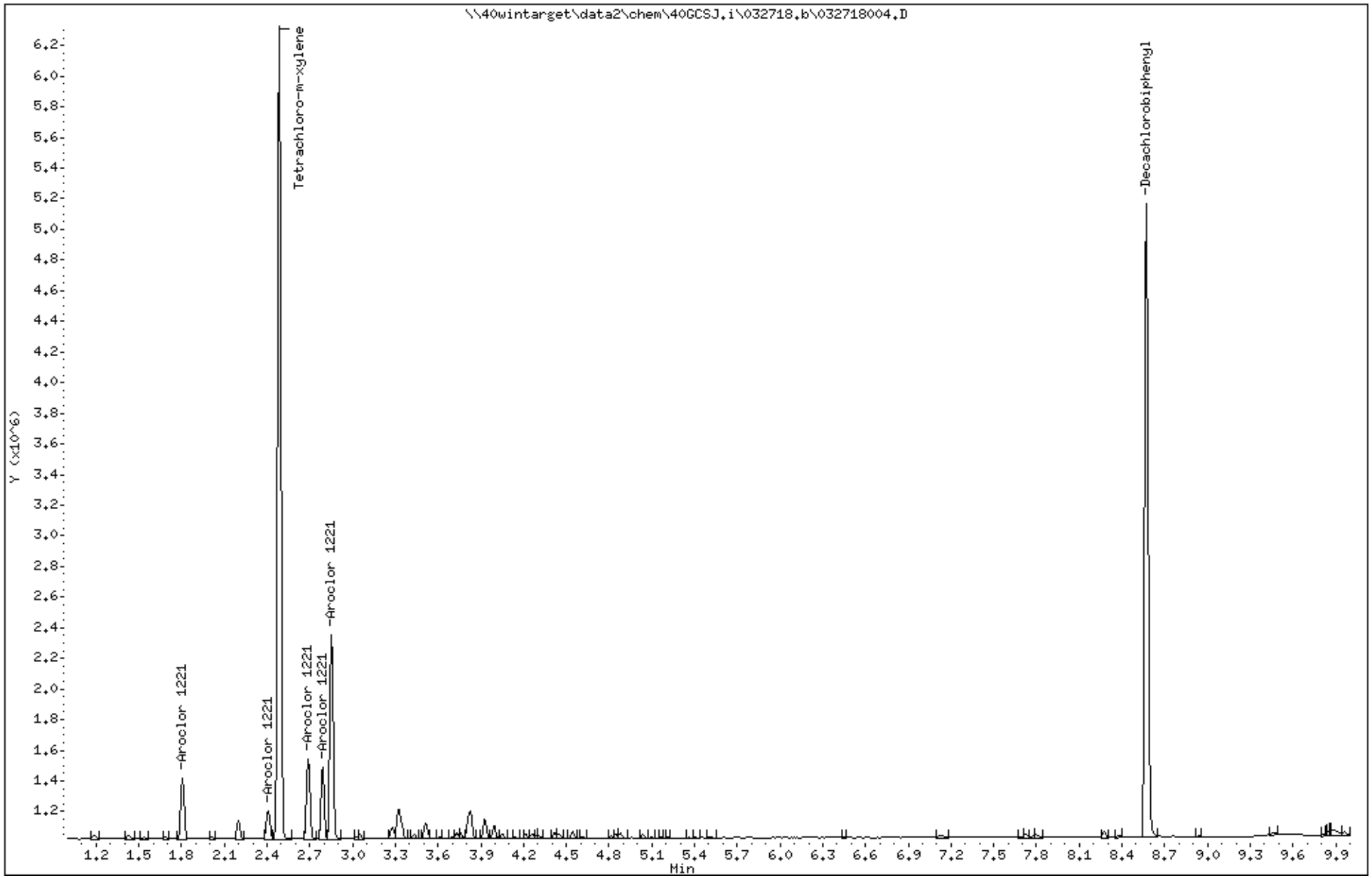
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Date : 27-MAR-2018 13:55
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

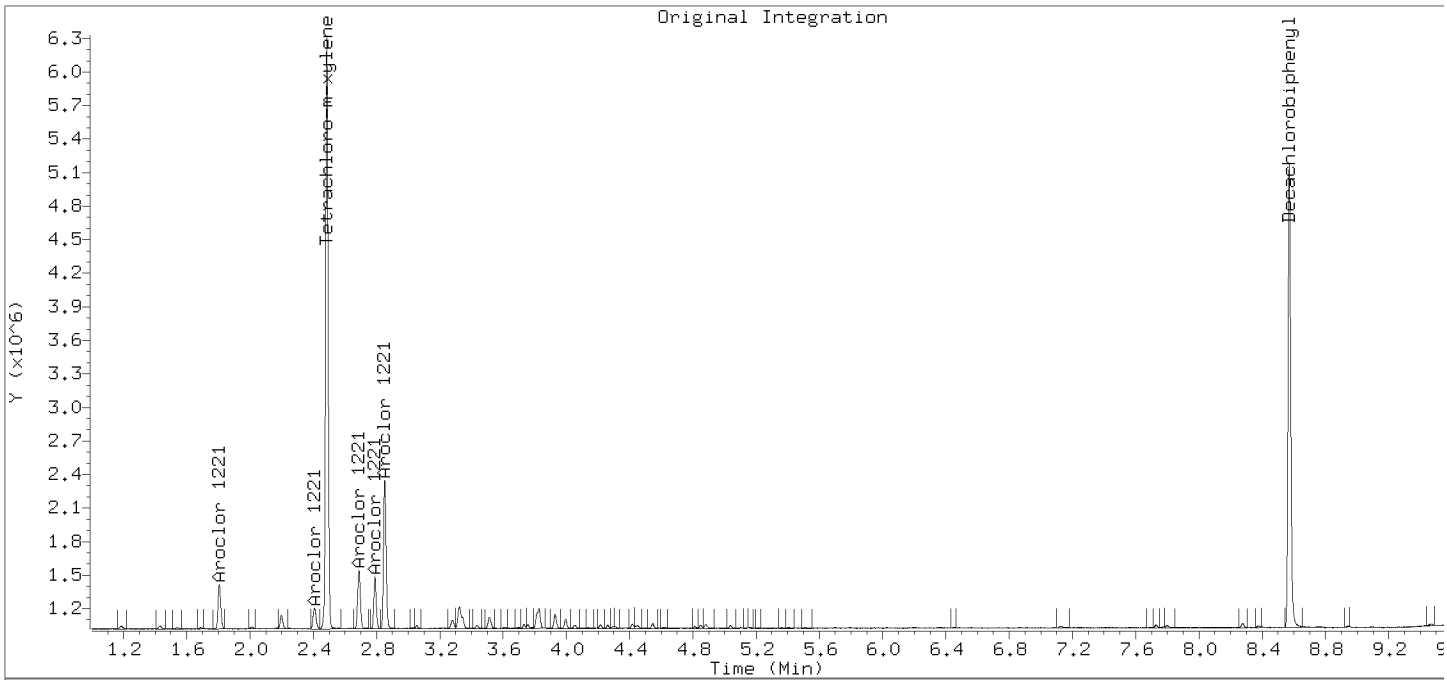
Operator: BLM

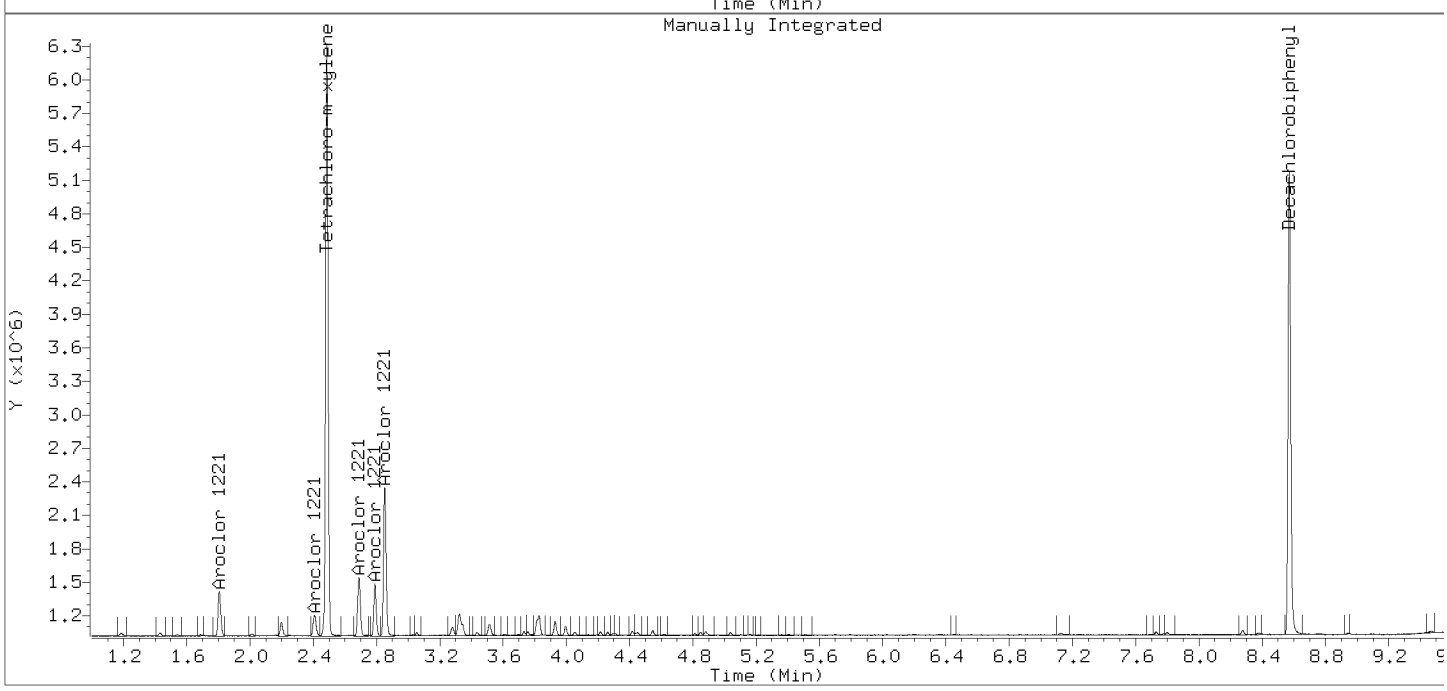
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718004.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 27-MAR-2018 13:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Tetrachloro-m-xylene	5789839	5795649	BA
Decachlorobiphenyl	4865650	4865650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 27-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	39105	30176	0.772	0.14		
1.428	38173	32149	0.842	0.13		
1.535	21682	15589	0.719	0.07		
1.684	17136	14756	0.861	0.06		
1.804	304577	266643	0.875	1.10		
2.009	21247	17258	0.812	0.07		
2.198	90843	79788	0.878	0.32		
2.407	197054	149443	0.758	0.71		
2.484	5988579	5772885	0.964	22.03	$ 2 Tetrachloro-m-xylene	
2.687	448038	369889	0.826	1.62		
2.789	413696	385522	0.932	1.49		
2.850	1340998	1195504	0.892	4.85	4 Aroclor 1232	BA
3.028	11309	13318	1.178	0.04		
3.055	90165	77171	0.856	0.32		
3.279	73381	55919	0.762	0.26		
3.318	773131	693411	0.897	2.79		
3.343	417734	389169	0.932	1.51		
3.434	128978	110624	0.858	0.46		
3.513	700329	500772	0.715	2.53	4 Aroclor 1232	BA
3.610	21509	19334	0.899	0.07		
3.646	18175	11073	0.609	0.06		
3.696	26464	23069	0.872	0.09		
3.732	182548	182583	1.000	0.66		
3.756	148695	121321	0.816	0.53		
3.827	2011685	1164318	0.579	7.28	4 Aroclor 1232	BA
3.929	860467	709621	0.825	3.11	4 Aroclor 1232	BA
3.994	574204	540725	0.942	2.07	4 Aroclor 1232	BA
4.059	154360	139927	0.906	0.55		
4.137	64296	54496	0.848	0.23		
4.214	412730	380742	0.922	1.49		
4.260	400782	377772	0.943	1.45		
4.292	176349	176238	0.999	0.63		
4.311	217269	197416	0.909	0.78		
4.368	24937	15928	0.639	0.09		
4.417	561301	527576	0.940	2.03		
4.451	449872	316310	0.703	1.62		
4.545	718807	659934	0.918	2.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	181681	159023	0.875	0.65	
4.727	39702	33208	0.836	0.14	
4.768	43113	38633	0.896	0.15	
4.813	322621	306576	0.950	1.16	
4.847	568276	529998	0.933	2.05	
4.878	732327	543216	0.742	2.65	
4.959	82587	60821	0.736	0.29	
5.037	610841	551641	0.903	2.21	
5.099	118402	88288	0.746	0.42	
5.162	136426	116900	0.857	0.49	
5.211	92966	85091	0.915	0.33	
5.309	31895	21763	0.682	0.11	
5.363	86968	69593	0.800	0.31	
5.406	141021	124101	0.880	0.51	
5.446	89645	76343	0.852	0.32	
5.508	237459	174428	0.735	0.85	
5.602	69981	61157	0.874	0.25	
5.668	13062	12850	0.984	0.04	
5.792	162781	122928	0.755	0.58	
5.888	28119	15573	0.554	0.10	
6.024	120550	106730	0.885	0.43	
6.055	36532	29932	0.819	0.13	
6.167	17704	13183	0.745	0.06	
6.297	39906	33693	0.844	0.14	
6.716	11608	11222	0.967	0.04	
7.006	25123	22636	0.901	0.09	
7.251	17390	11900	0.684	0.06	
7.725	25417	21327	0.839	0.09	
7.776	11233	10737	0.956	0.04	
7.799	20295	18785	0.926	0.07	
7.899	12249	8715	0.711	0.04	
8.275	48550	41454	0.854	0.17	
8.376	12303	12088	0.982	0.04	
8.570	5251116	4371355	0.832	19.00	$ 12 Decachlorobiphenyl
8.939	16566	10276	0.620	0.05	
9.081	13129	7526	0.573	0.04	
9.469	17705	11060	0.625	0.06	
	27627853	23723119		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 27-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5988578	0.05000	0.048			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1340997	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	700329	0.50000	0.52	0.00- 20.00	52.22	BA
3.826	3.827	-0.001	2011685	0.50000	0.54	0.00- 20.00	150.01	BA
3.928	3.929	-0.001	860466	0.50000	0.54	0.00- 20.00	64.17	BA
3.994	3.995	-0.001	574204	0.50000	0.52	0.00- 20.00	42.82	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5251116	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D

Date : 27-MAR-2018 17:05

Client ID: 1232-CCV

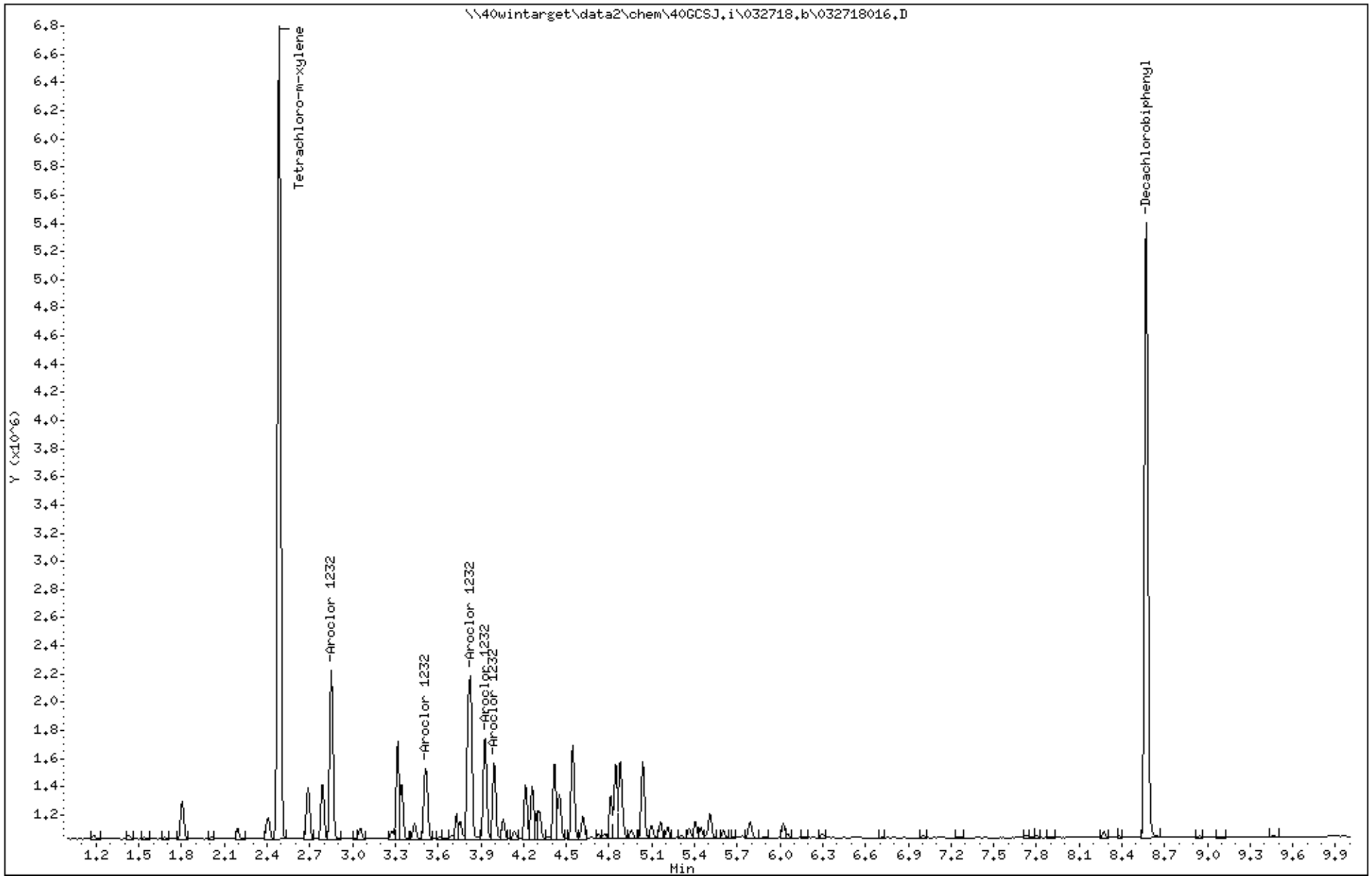
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

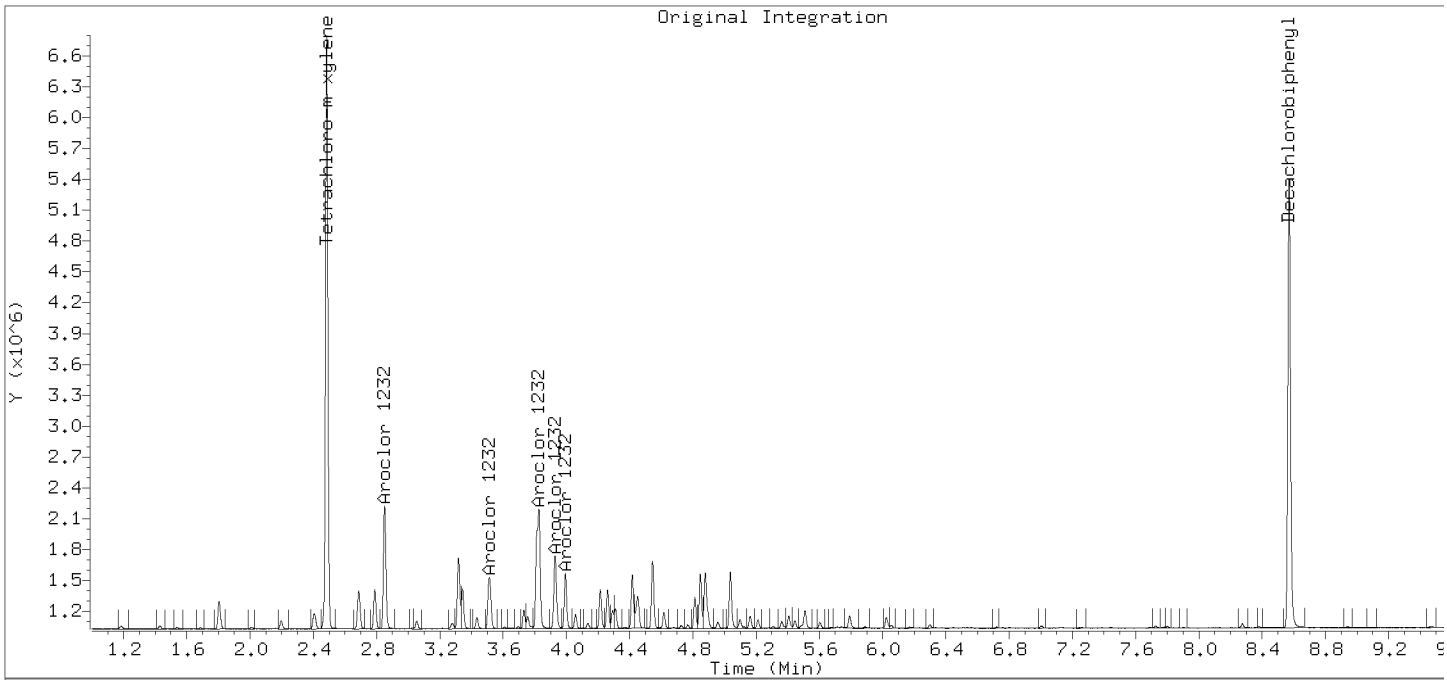
Operator: BLM

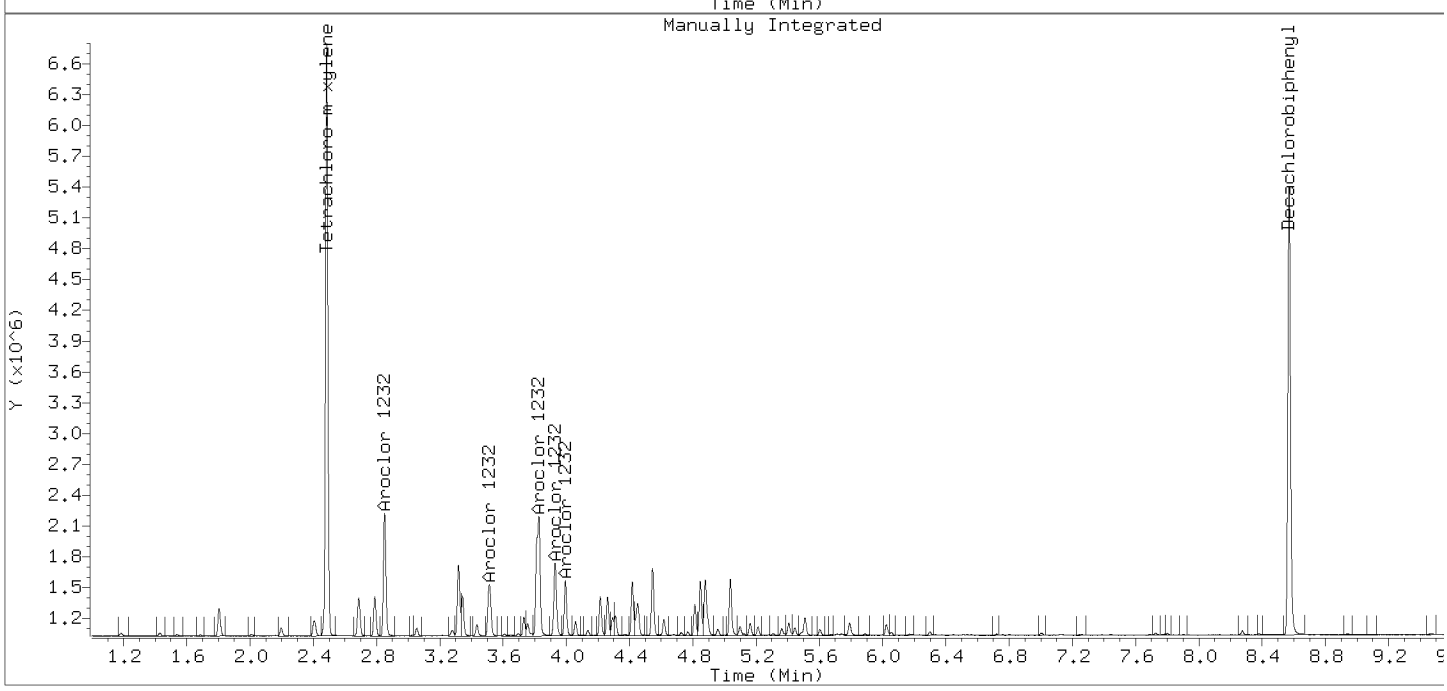
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718016.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 27-MAR-2018 17:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Tetrachloro-m-xylene	5988578	5988578	
Decachlorobiphenyl	5251116	5251116	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718028.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 27-MAR-2018 20:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	22116	19128	0.865	0.05		
1.430	36347	30805	0.848	0.09		
1.533	15832	13852	0.875	0.03		
1.688	30426	28483	0.936	0.07		
1.801	19124	14345	0.750	0.04		
2.403	122922	93920	0.764	0.30		
2.485	6045235	5727484	0.947	15.66	$ 2 Tetrachloro-m-xylene	
2.687	181314	145710	0.804	0.45		
2.788	278948	257409	0.923	0.70		
2.850	969999	897218	0.925	2.44		
3.055	143956	130670	0.908	0.36		
3.279	23236	16833	0.724	0.05		
3.317	1305426	1219738	0.934	3.28	3 Aroclor 1242	BA
3.344	742311	704929	0.950	1.86		
3.434	208477	188843	0.906	0.52		
3.514	1289639	943262	0.731	3.24	3 Aroclor 1242	BA
3.610	21298	19297	0.906	0.05		
3.647	21829	15548	0.712	0.05		
3.694	37154	35024	0.943	0.09		
3.731	330109	320781	0.972	0.83		
3.755	221466	211702	0.956	0.55		
3.826	3694404	2119282	0.574	9.30	3 Aroclor 1242	BA
3.929	1583243	1328111	0.839	3.98	3 Aroclor 1242	BA
3.994	1052494	1001265	0.951	2.65	3 Aroclor 1242	BA
4.057	319475	283508	0.887	0.80		
4.135	120986	107562	0.889	0.30		
4.214	869317	820541	0.944	2.18		
4.260	839732	805808	0.960	2.11		
4.292	353678	356274	1.007	0.89		
4.310	440452	413089	0.938	1.10		
4.372	26207	20261	0.773	0.06		
4.417	1153897	1081083	0.937	2.90		
4.451	910533	659737	0.725	2.29		
4.545	1494234	1371200	0.918	3.76		
4.589	19012	21237	1.117	0.04		
4.617	343739	316027	0.919	0.86		
4.674	25481	18948	0.744	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	73129	64209	0.878	0.18	
4.768	82873	76521	0.923	0.20	
4.812	705688	697663	0.989	1.77	
4.848	1218924	1126716	0.924	3.06	
4.879	1550913	1184991	0.764	3.90	
4.957	171628	137268	0.800	0.43	
5.036	1297039	1206088	0.930	3.26	
5.098	274834	212364	0.773	0.69	
5.162	320063	282287	0.882	0.80	
5.212	244797	219103	0.895	0.61	
5.283	18910	18363	0.971	0.04	
5.307	57364	47940	0.836	0.14	
5.362	212837	180911	0.850	0.53	
5.406	353167	295588	0.837	0.88	
5.445	225499	191903	0.851	0.56	
5.509	573345	435586	0.760	1.44	
5.603	178100	144424	0.811	0.44	
5.713	38227	27582	0.722	0.09	
5.741	46088	41858	0.908	0.11	
5.790	419932	323443	0.770	1.05	
5.888	61769	37654	0.610	0.15	
5.997	12966	12941	0.998	0.03	
6.024	337459	288403	0.855	0.84	
6.055	67483	54133	0.802	0.16	
6.166	24860	22346	0.899	0.06	
6.225	30573	17138	0.561	0.07	
6.297	110529	92300	0.835	0.27	
6.333	27581	23018	0.835	0.06	
6.374	17409	17314	0.995	0.04	
6.535	40893	34152	0.835	0.10	
6.800	28695	24586	0.857	0.07	
7.007	15361	12456	0.811	0.03	
7.125	14288	11437	0.800	0.03	
7.251	10908	8813	0.808	0.02	
7.683	9419	6362	0.675	0.02	
7.727	27188	22778	0.838	0.06	
7.800	19157	17822	0.930	0.04	
8.274	58053	44040	0.759	0.14	
8.377	17876	11671	0.653	0.04	
8.569	5402413	4583574	0.848	13.60	$ 12 Decachlorobiphenyl
	39712286	34016660		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718028.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 27-MAR-2018 20:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6045234	0.05000	0.049			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1305426	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1289639	0.50000	0.51	0.00- 20.00	98.79	BA
3.825	3.827	-0.002	3694404	0.50000	0.52	0.00- 20.00	283.00	BA
3.928	3.929	-0.001	1583243	0.50000	0.52	0.00- 20.00	121.28	BA
3.994	3.995	-0.001	1052494	0.50000	0.51	0.00- 20.00	80.62	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5402413	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718028.D

Date : 27-MAR-2018 20:15

Client ID: 1242-CCV

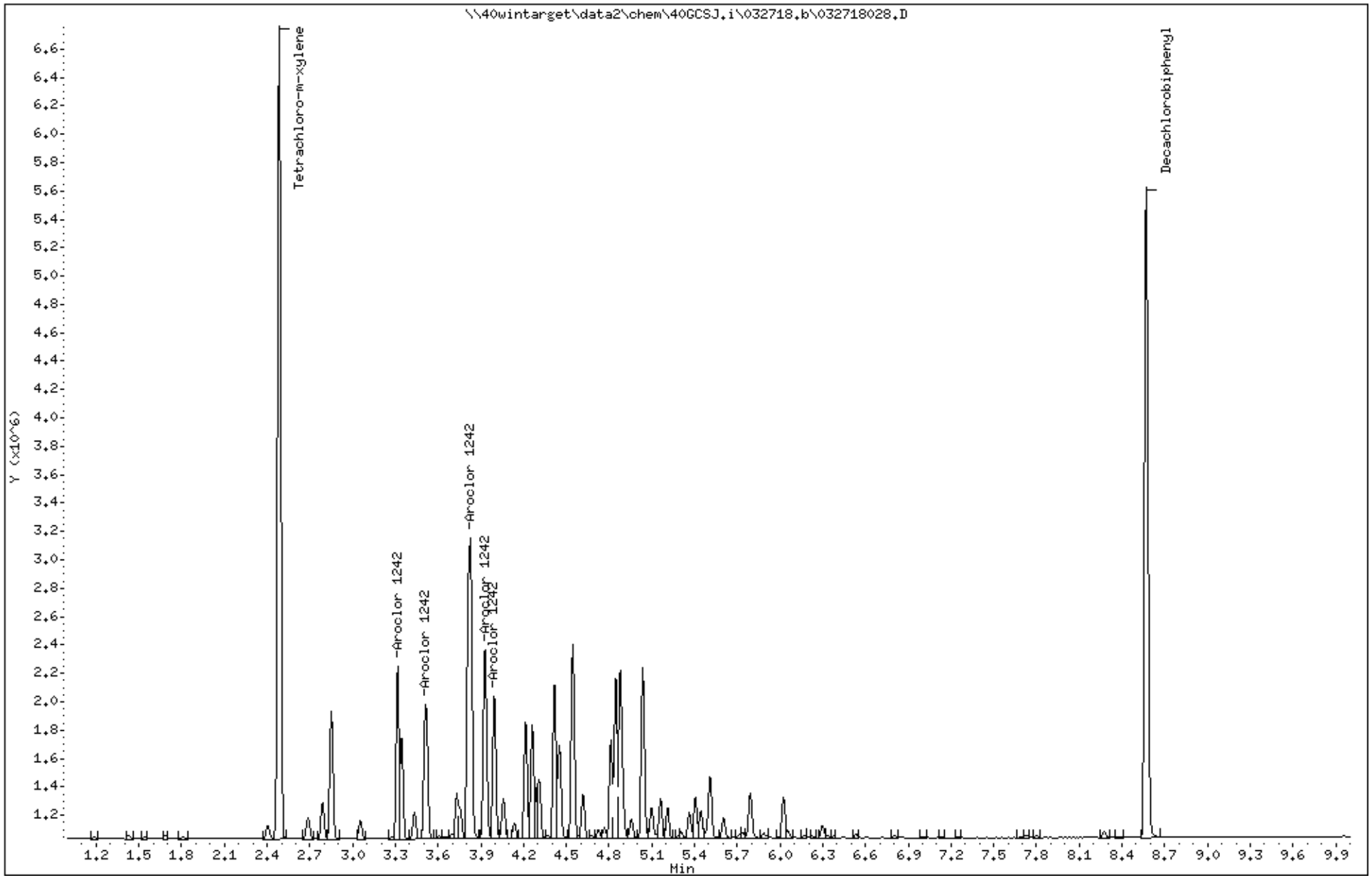
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

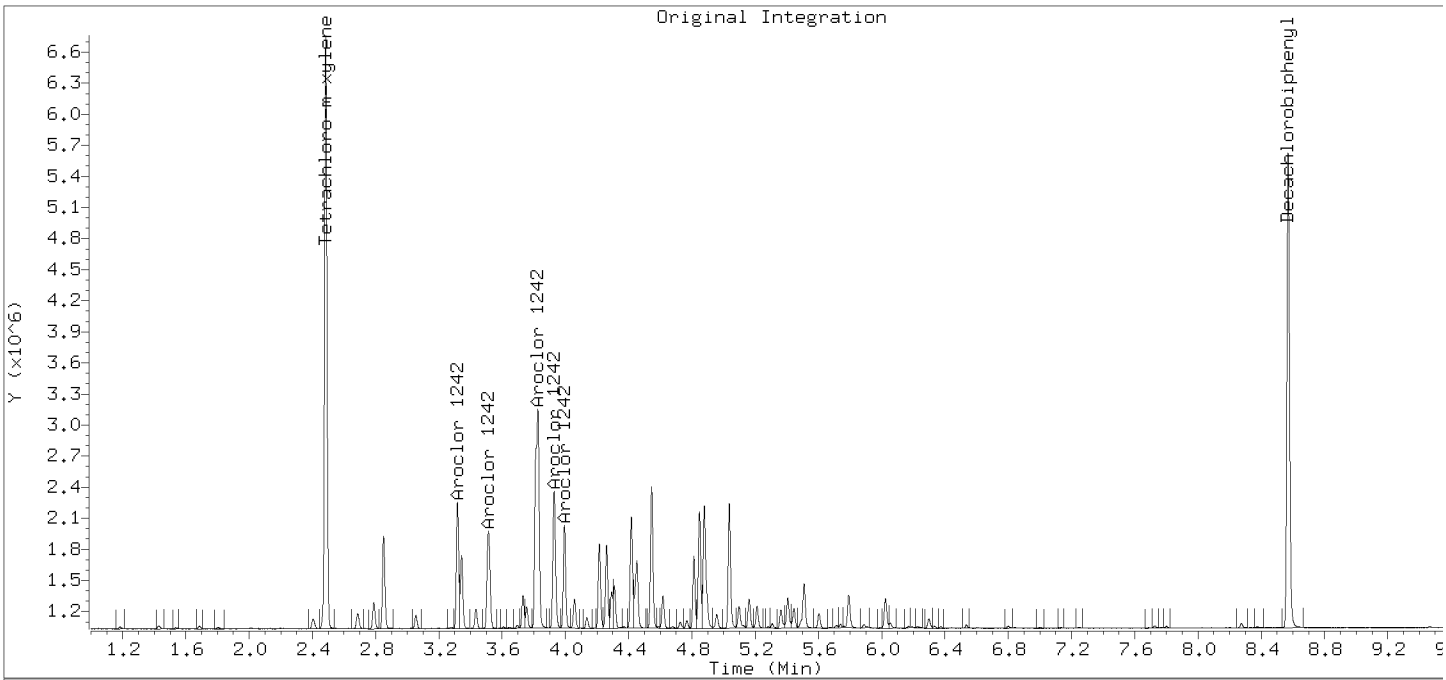
Operator: BLM

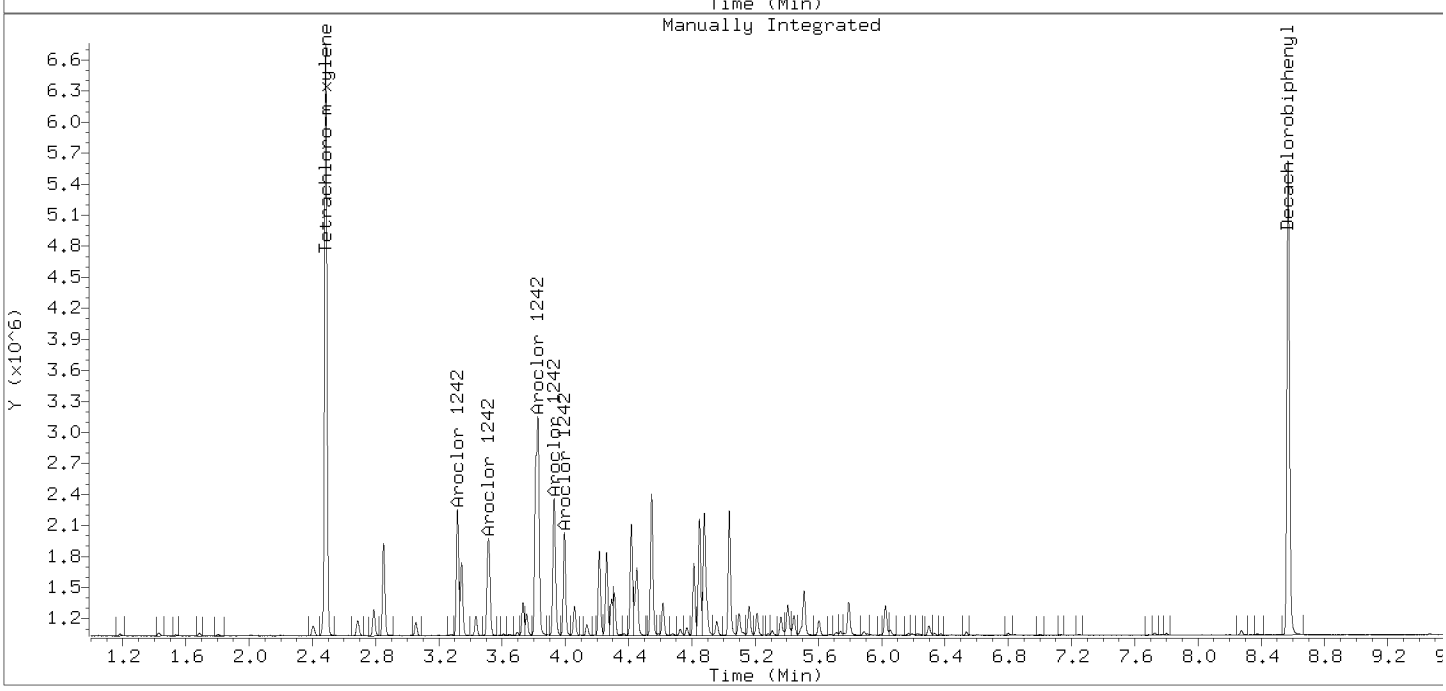
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718028.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 27-MAR-2018 20:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Aroclor 1242	1299738	1305426	BA
Tetrachloro-m-xylene	6045234	6045234	
Decachlorobiphenyl	5402413	5402413	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 28-MAR-2018 14:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	34287	24870	0.725	0.06		
1.429	43370	30622	0.706	0.08		
1.538	20099	14065	0.700	0.03		
1.687	34243	28918	0.844	0.06		
2.008	22340	15888	0.711	0.04		
2.485	5986478	5564957	0.930	11.86	$ 2 Tetrachloro-m-xylene	
2.787	86745	81305	0.937	0.16		
2.853	19435	17303	0.890	0.03		
3.030	9498	11608	1.222	0.01		
3.051	19068	18093	0.949	0.03		
3.317	33265	29468	0.886	0.06		
3.346	27060	18432	0.681	0.05		
3.514	36728	24645	0.671	0.06		
3.608	18572	17393	0.937	0.03		
3.813	98773	56799	0.575	0.18		
3.934	63882	43155	0.676	0.12		
3.996	37044	29645	0.800	0.07		
4.054	30813	23935	0.777	0.05		
4.134	9311	8762	0.941	0.01		
4.215	1225168	1129005	0.922	2.32		
4.262	338836	322290	0.951	0.64		
4.293	73364	49673	0.677	0.13		
4.417	746529	716586	0.960	1.41		
4.453	73020	70190	0.961	0.13		
4.545	337813	318874	0.944	0.64		
4.588	13636	15720	1.153	0.02		
4.619	59572	55237	0.927	0.11		
4.683	16162	15741	0.974	0.03		
4.768	19602	19899	1.015	0.03		
4.813	279707	267318	0.956	0.53		
4.848	1075158	1008417	0.938	2.04		
4.894	2401051	1902748	0.792	4.56		
4.957	396126	343679	0.868	0.75		
5.038	232524	211719	0.911	0.44		
5.099	1410312	1220394	0.865	2.68		
5.163	2562142	2359787	0.921	4.87	7 Aroclor 1254	BA
5.213	1183874	1063969	0.899	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	64362	59384	0.923	0.12	
5.309	214189	198290	0.926	0.40	
5.363	1021441	946112	0.926	1.94	
5.407	2127920	1856095	0.872	4.04	7 Aroclor 1254
5.446	732166	667014	0.911	1.39	
5.478	269581	259061	0.961	0.51	
5.510	3806371	3350789	0.880	7.23	7 Aroclor 1254
5.578	35670	33568	0.941	0.06	
5.605	539855	477208	0.884	1.02	
5.675	349872	322991	0.923	0.66	
5.711	527149	348569	0.661	1.00	
5.742	336284	272779	0.811	0.63	
5.790	3816058	2929635	0.768	7.25	
5.883	346537	265559	0.766	0.65	
5.928	183760	116406	0.633	0.34	
5.993	323102	301812	0.934	0.61	
6.026	2359099	2009027	0.852	4.48	7 Aroclor 1254
6.056	1777584	1459574	0.821	3.38	
6.168	698367	591406	0.847	1.32	
6.229	280454	282615	1.008	0.53	
6.240	322805	275490	0.853	0.61	
6.300	3187981	2664330	0.836	6.06	7 Aroclor 1254
6.333	581245	511127	0.879	1.10	
6.373	333781	285020	0.854	0.63	
6.440	92542	52569	0.568	0.17	
6.485	14854	18006	1.212	0.02	
6.511	127692	124240	0.973	0.24	
6.537	1086431	825577	0.760	2.06	
6.604	160164	127459	0.796	0.30	
6.662	31281	27406	0.876	0.05	
6.719	220717	189496	0.859	0.41	
6.760	130601	114459	0.876	0.24	
6.802	599073	511580	0.854	1.13	
6.843	172075	107423	0.624	0.32	
6.944	58205	51305	0.881	0.11	
7.005	440272	366637	0.833	0.83	
7.074	21878	18758	0.857	0.04	
7.125	34239	17818	0.520	0.06	
7.252	348633	301052	0.864	0.66	
7.279	82002	63923	0.780	0.15	
7.386	17142	13502	0.788	0.03	
7.442	26995	22666	0.840	0.05	
7.553	34242	18871	0.551	0.06	
7.689	18612	16303	0.876	0.03	
7.729	34281	25817	0.753	0.06	
7.779	14008	12620	0.901	0.02	
7.802	32343	21942	0.678	0.06	
7.902	24455	19659	0.804	0.04	
8.277	54431	45311	0.832	0.10	
8.377	17795	14042	0.789	0.03	
8.572	5310341	4596878	0.866	10.09	$ 12 Decachlorobiphenyl
8.943	15180	13152	0.866	0.02	
9.467	40693	18552	0.456	0.07	
9.876	12674	9294	0.733	0.02	
	52585090	45401287		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 28-MAR-2018 14:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5986477	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2562141	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2127920	0.50000	0.49	0.00- 20.00	83.05	BA
5.510	5.510	0.000	3806370	0.50000	0.49	0.00- 20.00	148.56	BA
6.026	6.027	-0.001	2359098	0.50000	0.48	0.00- 20.00	92.08	BA
6.299	6.299	0.000	3187980	0.50000	0.49	0.00- 20.00	124.43	BA
Average of Peak Amounts =					0.48800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5310340	0.05000	0.048			

QC Flag Legend

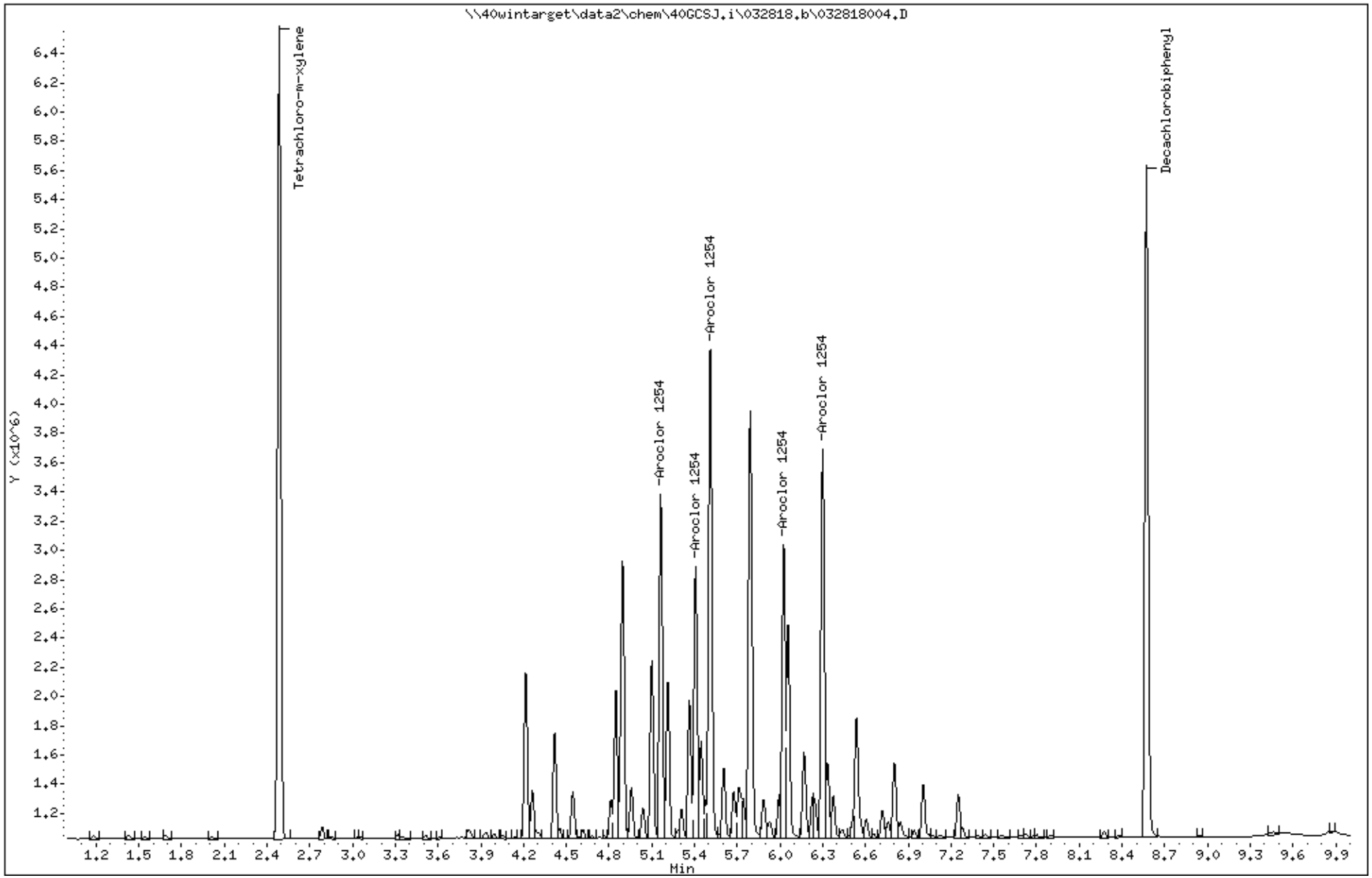
M - Compound response manually integrated.

Review Codes Legend

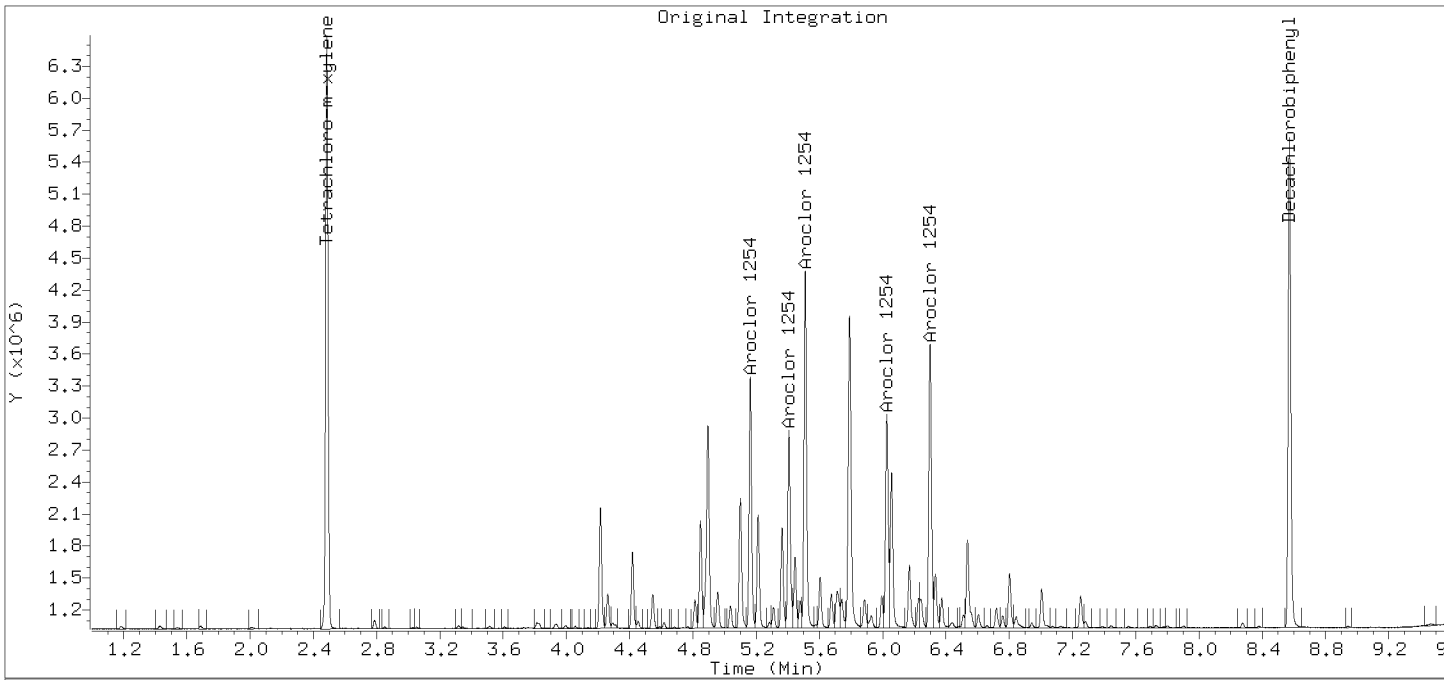
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

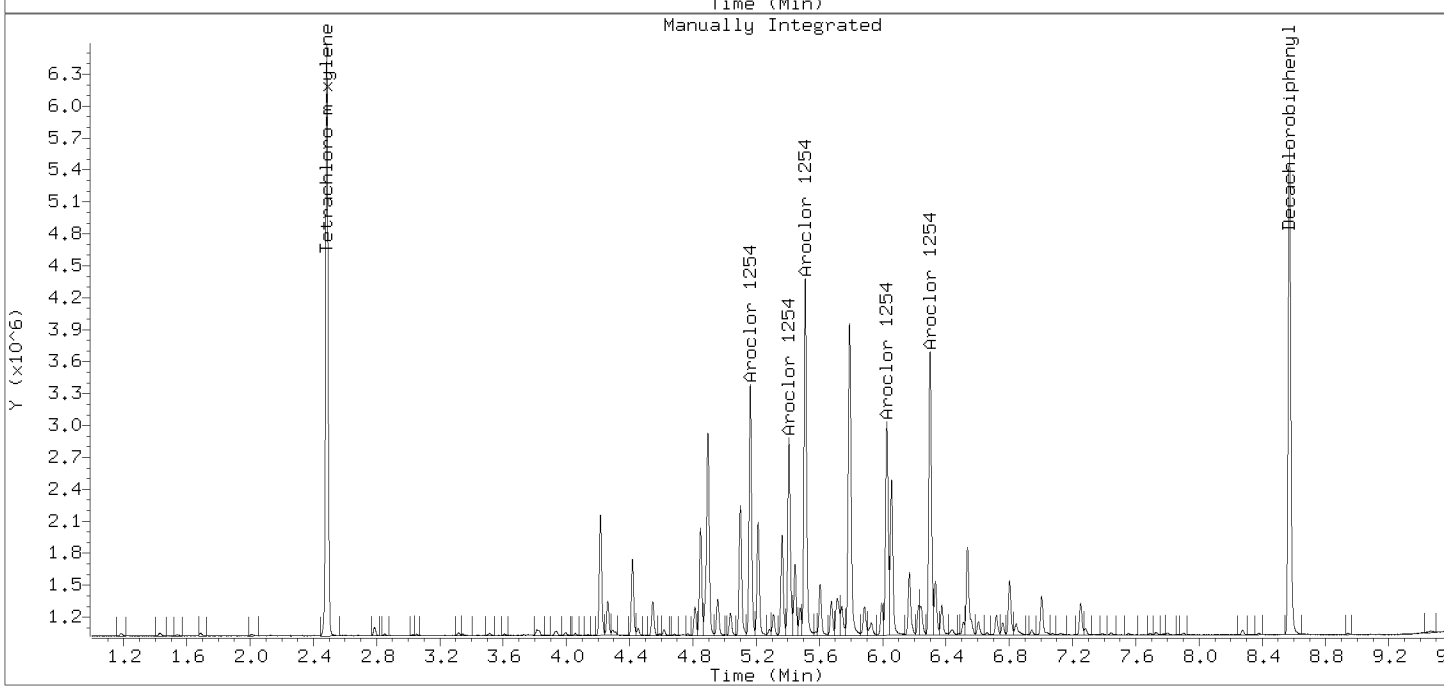
Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818004.D
Date : 28-MAR-2018 14:08
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818004.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 28-MAR-2018 14:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Aroclor 1254	2553734	2562141	BA
Tetrachloro-m-xylene	5986477	5986477	
Decachlorobiphenyl	5310340	5310340	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 28-MAR-2018 17:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	29523	23406	0.793	0.03		
1.431	42897	30026	0.700	0.04		
1.537	17831	13600	0.763	0.02		
1.688	48661	35952	0.739	0.05		
1.807	15587	14584	0.936	0.01		
2.012	30566	18541	0.607	0.03		
2.405	141910	107853	0.760	0.16		
2.485	6137942	5556103	0.905	7.55	$ 2 Tetrachloro-m-xylene	
2.687	208836	162642	0.779	0.24		
2.789	315704	280402	0.888	0.36		
2.851	1148333	1027563	0.895	1.32		
3.030	9411	12955	1.377	0.01		
3.055	172133	151373	0.879	0.19		
3.279	26793	20870	0.779	0.03		
3.318	1549727	1408674	0.909	1.78	5 Aroclor 1016	BA
3.344	906717	824850	0.910	1.04		
3.434	250136	220649	0.882	0.28		
3.514	1558975	1106612	0.710	1.80	5 Aroclor 1016	BA
3.608	26281	18884	0.719	0.03		
3.649	24718	16536	0.669	0.02		
3.698	44188	43420	0.983	0.05		
3.732	395173	397244	1.005	0.45		
3.757	265392	246478	0.929	0.30		
3.826	4472301	2572556	0.575	5.16	5 Aroclor 1016	BA
3.929	1909822	1573034	0.824	2.20	5 Aroclor 1016	BA
3.994	1290285	1214673	0.941	1.48	5 Aroclor 1016	BA
4.058	364578	333593	0.915	0.42		
4.136	146504	129896	0.887	0.16		
4.215	1118228	1044725	0.934	1.29		
4.261	1007081	962590	0.956	1.16		
4.293	432699	425922	0.984	0.49		
4.310	515806	496547	0.963	0.59		
4.370	35108	23731	0.676	0.04		
4.417	1394189	1249562	0.896	1.60		
4.452	1036163	800665	0.773	1.19		
4.546	1769739	1564553	0.884	2.04		
4.587	21868	24348	1.113	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	403123	365763	0.907	0.46	
4.679	26311	21712	0.825	0.03	
4.727	64209	54326	0.846	0.07	
4.769	58270	53480	0.918	0.06	
4.813	322453	304789	0.945	0.37	
4.848	510057	472757	0.927	0.58	
4.895	1614151	1201052	0.744	1.86	
4.957	105638	83751	0.793	0.12	
5.038	93291	82068	0.880	0.10	
5.100	339843	286587	0.843	0.39	
5.162	1337759	1190569	0.890	1.54	
5.212	57419	49707	0.866	0.06	
5.307	16264	13922	0.856	0.01	
5.364	90408	79794	0.883	0.10	
5.406	383618	338322	0.882	0.44	
5.477	531326	505234	0.951	0.61	
5.509	926640	815497	0.880	1.07	
5.602	16992	16022	0.943	0.01	
5.674	1360252	1256390	0.924	1.57	
5.709	973191	545415	0.560	1.12	
5.786	3349523	2880935	0.860	3.86	
5.883	228582	204561	0.895	0.26	
5.929	109126	90606	0.830	0.12	
5.994	565853	532416	0.941	0.65	
6.029	1271674	1232651	0.969	1.46	
6.055	3723861	3152158	0.846	4.30	
6.169	2402554	1514243	0.630	2.77	
6.256	546313	321177	0.588	0.63	
6.301	4486284	3585244	0.799	5.18	8 Aroclor 1260
6.333	659390	574547	0.871	0.76	
6.373	164436	129390	0.787	0.18	
6.431	467986	389690	0.833	0.54	
6.486	99252	125206	1.261	0.11	
6.509	2209311	1932501	0.875	2.55	
6.533	417864	449264	1.075	0.48	
6.560	1381259	1207839	0.874	1.59	
6.604	149175	119047	0.798	0.17	
6.661	429048	381018	0.888	0.49	
6.717	2360016	2084976	0.883	2.72	
6.758	1336418	1148450	0.859	1.54	
6.803	1092118	951782	0.872	1.26	
6.839	207066	175217	0.846	0.23	
6.865	104523	87778	0.840	0.12	
6.913	150324	139228	0.926	0.17	
6.942	467308	421408	0.902	0.53	
7.004	5106058	4410814	0.864	5.89	8 Aroclor 1260
7.035	348274	340222	0.977	0.40	
7.076	163426	125970	0.771	0.18	
7.121	231990	191205	0.824	0.26	
7.251	2450903	2133644	0.871	2.83	8 Aroclor 1260
7.281	701551	589954	0.841	0.81	
7.388	1241443	1053312	0.848	1.43	
7.443	1503797	1278915	0.850	1.73	8 Aroclor 1260
7.552	106981	83567	0.781	0.12	
7.689	602333	527633	0.876	0.69	
7.727	96201	78485	0.816	0.11	
7.801	75459	58299	0.773	0.08	

Data File: ...wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D Page 3
Report Date: 04-Apr-2018 13:07

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.900	1353891	1128293	0.833	1.56	8 Aroclor 1260
7.965	107694	77587	0.720	0.12	
8.275	359405	304308	0.847	0.41	
8.378	24291	14407	0.593	0.02	
8.571	5593526	4754791	0.850	6.45	$ 12 Decachlorobiphenyl
8.943	19569	11930	0.610	0.02	
9.963	17620	11294	0.641	0.02	
	86596697	72898731		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 28-MAR-2018 17:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032818.b\pcba030618.m
Meth Date : 04-Apr-2018 13:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6137942	0.05000	0.050			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1549727	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1558975	0.50000	0.50	0.00- 20.00	100.60	BA
3.825	3.826	-0.001	4472301	0.50000	0.50	0.00- 20.00	288.59	BA
3.929	3.929	0.000	1909821	0.50000	0.50	0.00- 20.00	123.24	BA
3.994	3.994	0.000	1290285	0.50000	0.50	0.00- 20.00	83.26	BA
Average of Peak Amounts =					0.50000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4486284	0.50000	0.51	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	5106058	0.50000	0.51	0.00- 20.00	113.81	CO
7.250	7.251	-0.001	2450903	0.50000	0.51	0.00- 20.00	54.63	CO
7.442	7.443	-0.001	1503796	0.50000	0.52	0.00- 20.00	33.52	CO
7.899	7.901	-0.002	1353891	0.50000	0.51	0.00- 20.00	30.18	CO
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5593526	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b\032818016.D

Date : 28-MAR-2018 17:19

Client ID: 1660-CCV

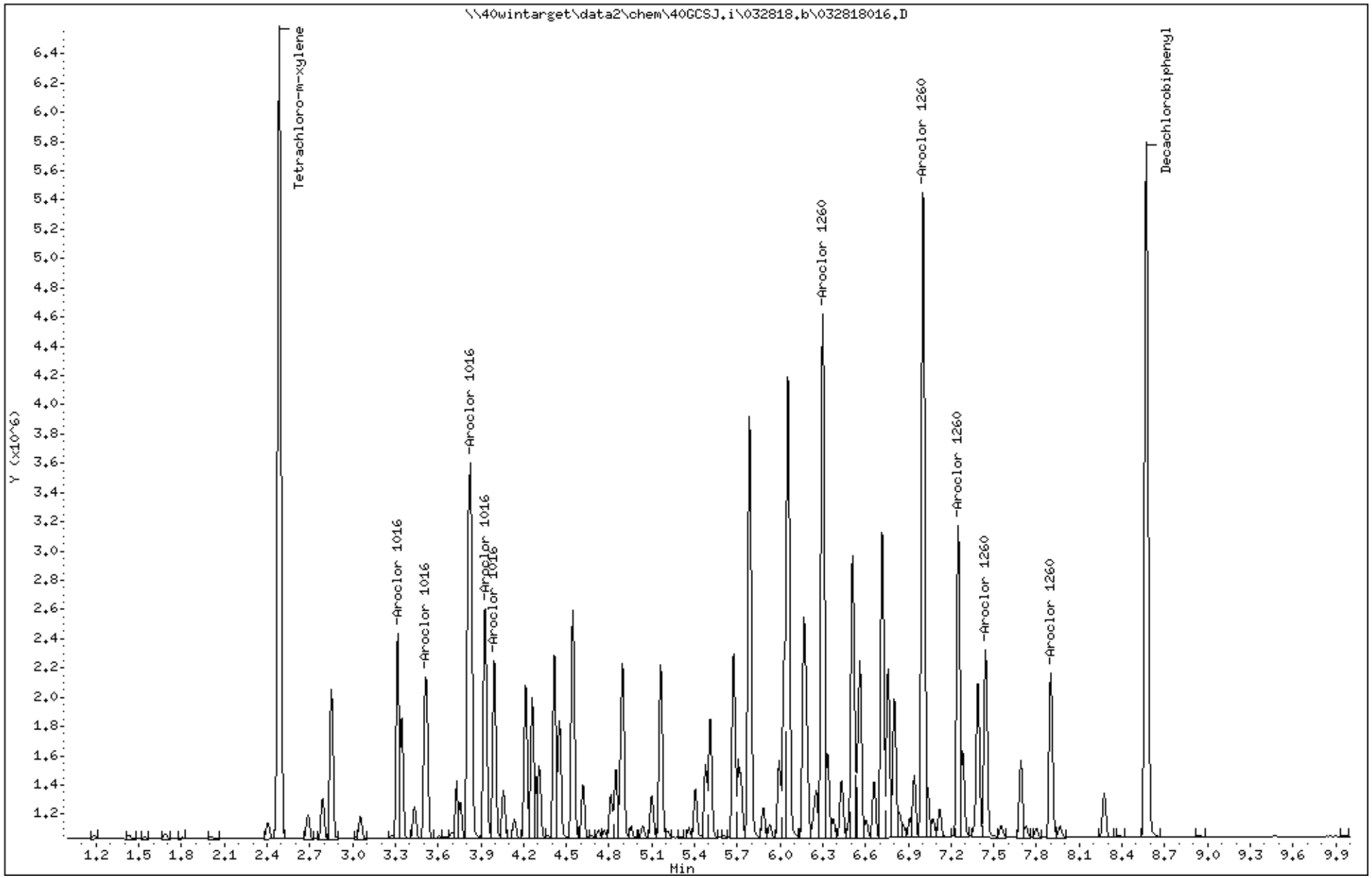
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

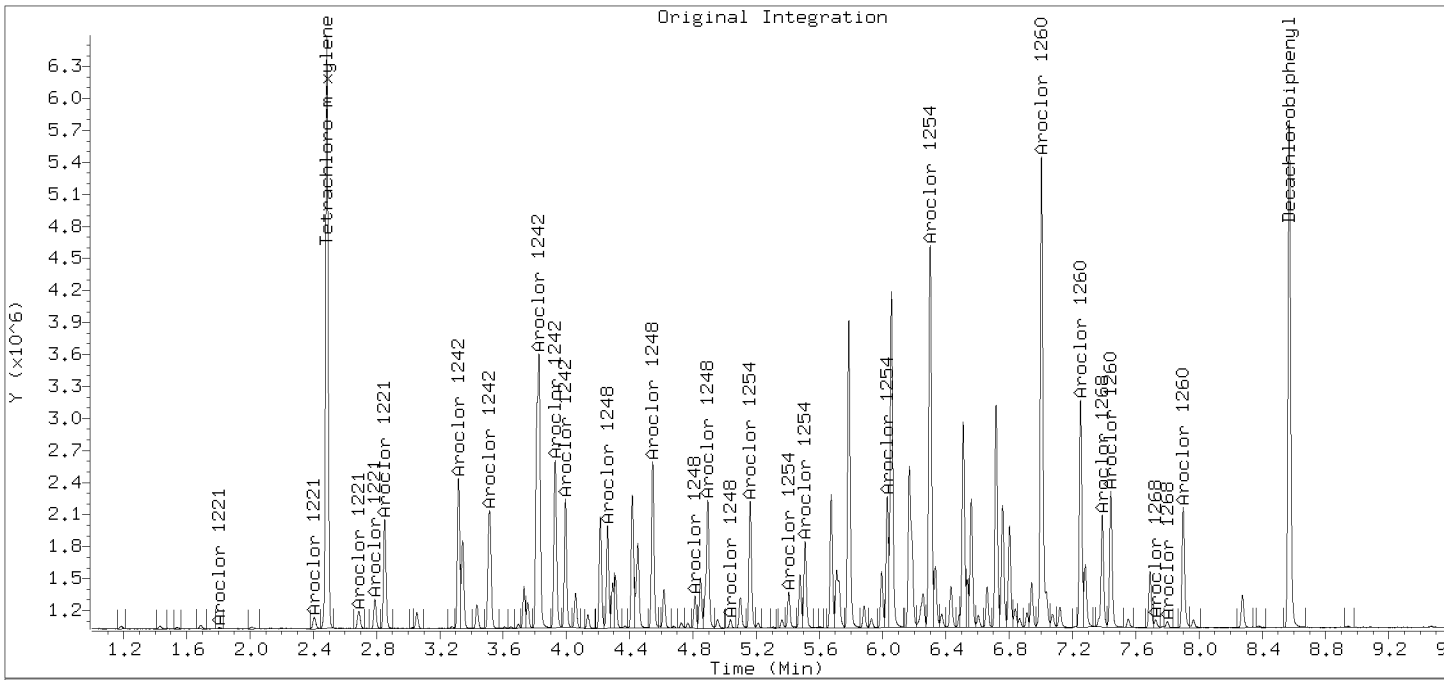
Operator: BLM

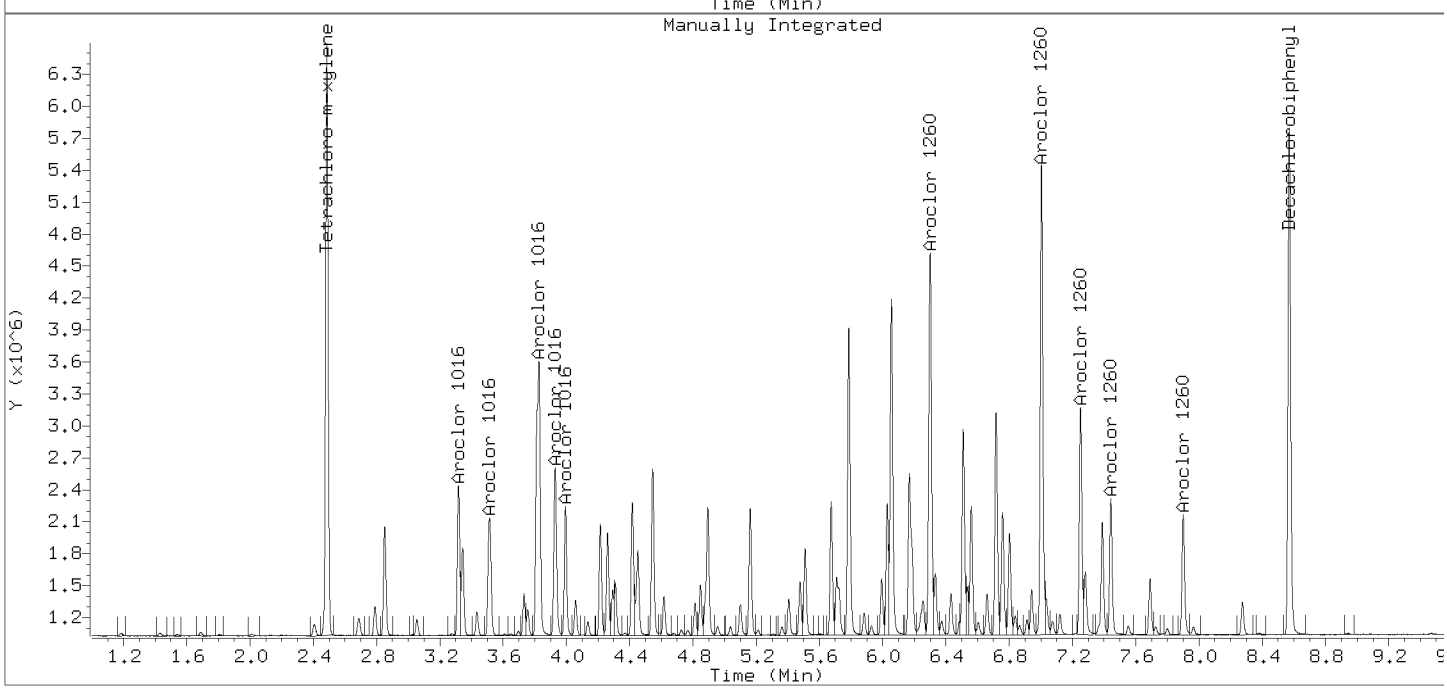
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032818.b/032818016.D (ManInt: AR1660.sub Orig: all.sub)
Injection Date: 28-MAR-2018 17:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1016	1544498	1549727	BA
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Aroclor 1260	4465788	4486284	CO
Tetrachloro-m-xylene	6137942	6137942	
Decachlorobiphenyl	5593526	5593526	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	28611	24110	0.843	0.10		
1.432	38050	29406	0.773	0.14		
1.537	16847	14036	0.833	0.06		
1.686	18795	16246	0.864	0.07		
1.806	293863	246585	0.839	1.11		
2.011	20417	15641	0.766	0.07		
2.198	82173	72036	0.877	0.31		
2.406	195034	143989	0.738	0.73		
2.485	5786443	5418296	0.936	22.29	$ 2 Tetrachloro-m-xylene	
2.688	423326	346437	0.818	1.60		
2.789	394101	358789	0.910	1.49		
2.851	1269350	1141797	0.900	4.80	4 Aroclor 1232	BA
3.029	11732	14025	1.195	0.04		
3.054	90724	73974	0.815	0.34		
3.281	66768	49387	0.740	0.25		
3.318	736732	655403	0.890	2.79		
3.344	402334	361823	0.899	1.52		
3.433	113342	103719	0.915	0.42		
3.513	669053	481887	0.720	2.53	4 Aroclor 1232	BA
3.609	20062	17884	0.891	0.07		
3.698	24610	20932	0.851	0.09		
3.732	176560	173194	0.981	0.66		
3.756	126992	114145	0.899	0.48		
3.826	1865355	1089801	0.584	7.06	4 Aroclor 1232	BA
3.930	797462	669657	0.840	3.02	4 Aroclor 1232	BA
3.995	527323	498762	0.946	1.99	4 Aroclor 1232	BA
4.059	153252	131901	0.861	0.58		
4.137	59676	53239	0.892	0.22		
4.215	394581	370771	0.940	1.49		
4.261	383584	358821	0.935	1.45		
4.293	168081	172238	1.025	0.63		
4.310	197644	184817	0.935	0.74		
4.417	533725	493147	0.924	2.02		
4.452	414687	311008	0.750	1.57		
4.547	676915	620446	0.917	2.56		
4.618	163928	152581	0.931	0.62		
4.677	16561	13343	0.806	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	33649	30922	0.919	0.12	
4.768	37020	33477	0.904	0.14	
4.813	297483	283159	0.952	1.12	
4.848	519297	483260	0.931	1.96	
4.879	679028	512647	0.755	2.57	
4.958	74870	56417	0.754	0.28	
5.037	551301	496890	0.901	2.08	
5.098	114768	86161	0.751	0.43	
5.163	127977	114468	0.894	0.48	
5.212	90559	78383	0.866	0.34	
5.308	25509	19884	0.780	0.09	
5.363	78766	67279	0.854	0.29	
5.407	138700	114980	0.829	0.52	
5.446	84273	70209	0.833	0.31	
5.510	220958	164243	0.743	0.83	
5.605	67711	57426	0.848	0.25	
5.672	13331	11647	0.874	0.05	
5.791	146328	110676	0.756	0.55	
5.884	18310	13481	0.736	0.06	
6.025	106645	95460	0.895	0.40	
6.056	33501	27285	0.814	0.12	
6.170	14328	11980	0.836	0.05	
6.299	39749	32967	0.829	0.15	
6.509	12262	11270	0.919	0.04	
6.719	16301	13619	0.835	0.06	
7.003	30494	20946	0.687	0.11	
7.124	27056	15787	0.583	0.10	
7.251	15684	11663	0.744	0.05	
7.438	9492	7819	0.824	0.03	
7.692	13467	9906	0.736	0.05	
7.726	30600	26257	0.858	0.11	
7.768	16249	11313	0.696	0.06	
7.799	27557	22489	0.816	0.10	
8.277	47916	40368	0.842	0.18	
8.378	21581	16221	0.752	0.08	
8.571	5107752	4316134	0.845	19.35	$ 12 Decachlorobiphenyl
8.938	10862	9594	0.883	0.04	
9.410	9812	13044	1.329	0.03	
9.426	12356	16262	1.316	0.04	
9.465	69759	22340	0.320	0.26	
9.854	13935	10507	0.754	0.05	
9.867	13247	9964	0.752	0.05	
9.957	13957	11464	0.821	0.05	
	26393094	22604541		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	5786442	0.05000	0.047			
4 Aroclor 1232						CAS #: 1114-16-5		
2.851	2.851	0.000	1269349	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669052	0.50000	0.50	0.00- 20.00	52.71	BA
3.826	3.827	-0.001	1865355	0.50000	0.50	0.00- 20.00	146.95	BA
3.929	3.929	0.000	797462	0.50000	0.50	0.00- 20.00	62.82	BA
3.994	3.995	-0.001	527322	0.50000	0.48	0.00- 20.00	41.54	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5107751	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D

Date : 30-MAR-2018 15:47

Client ID: 1232-CCV

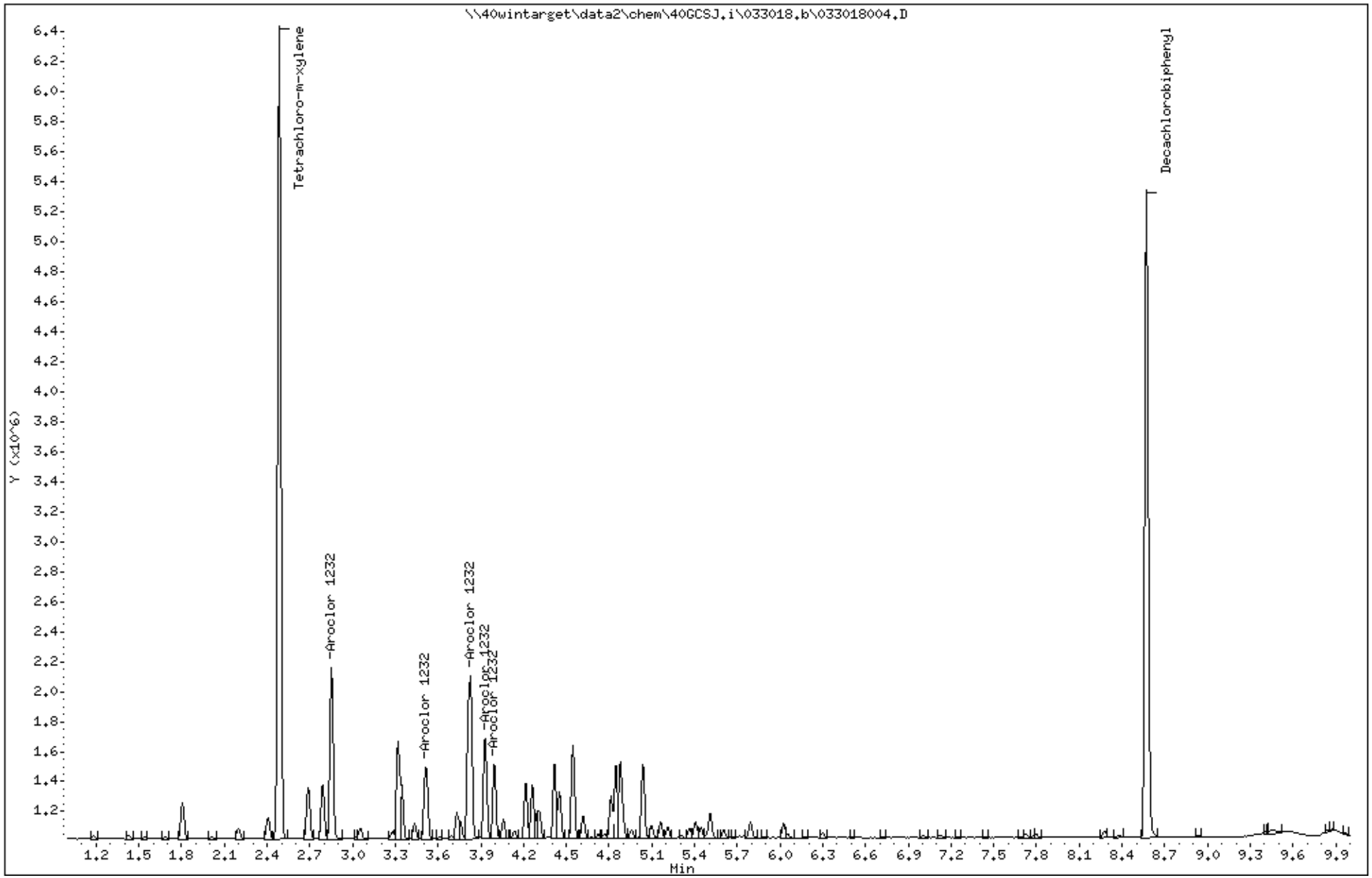
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

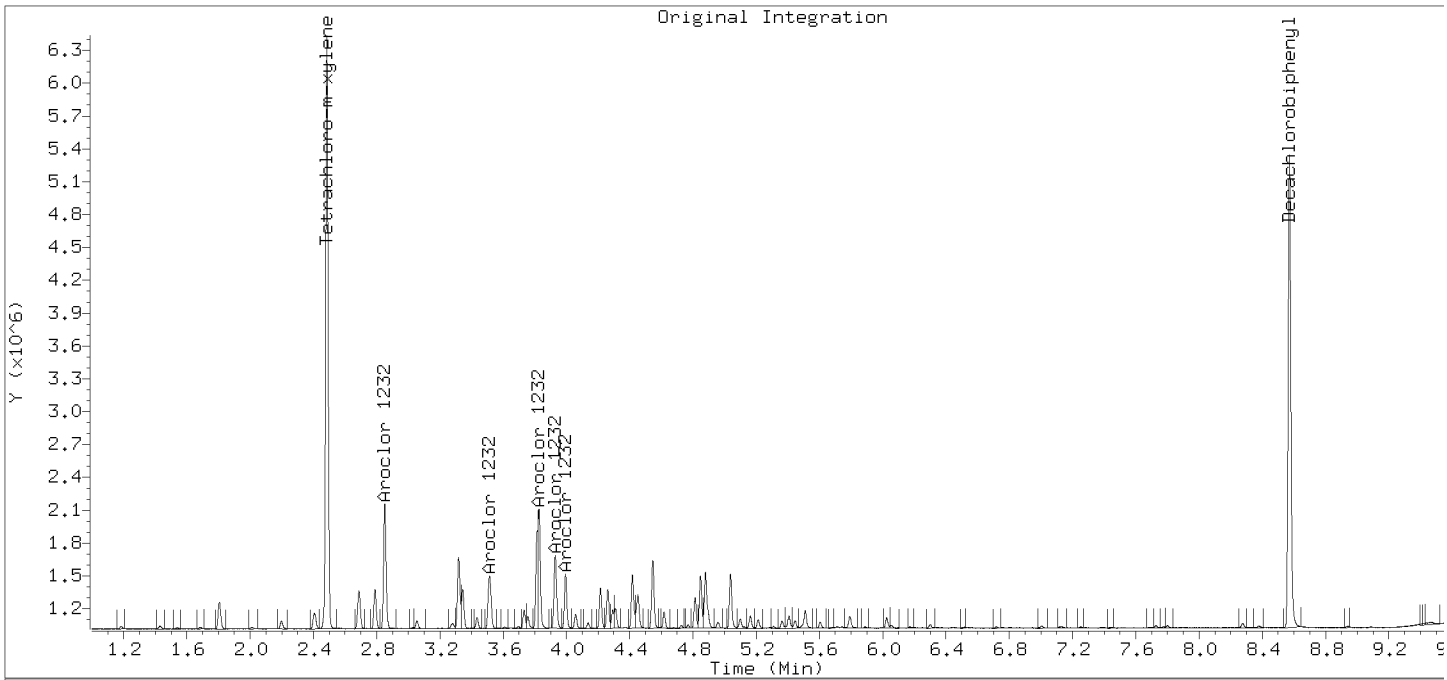
Operator: BLM

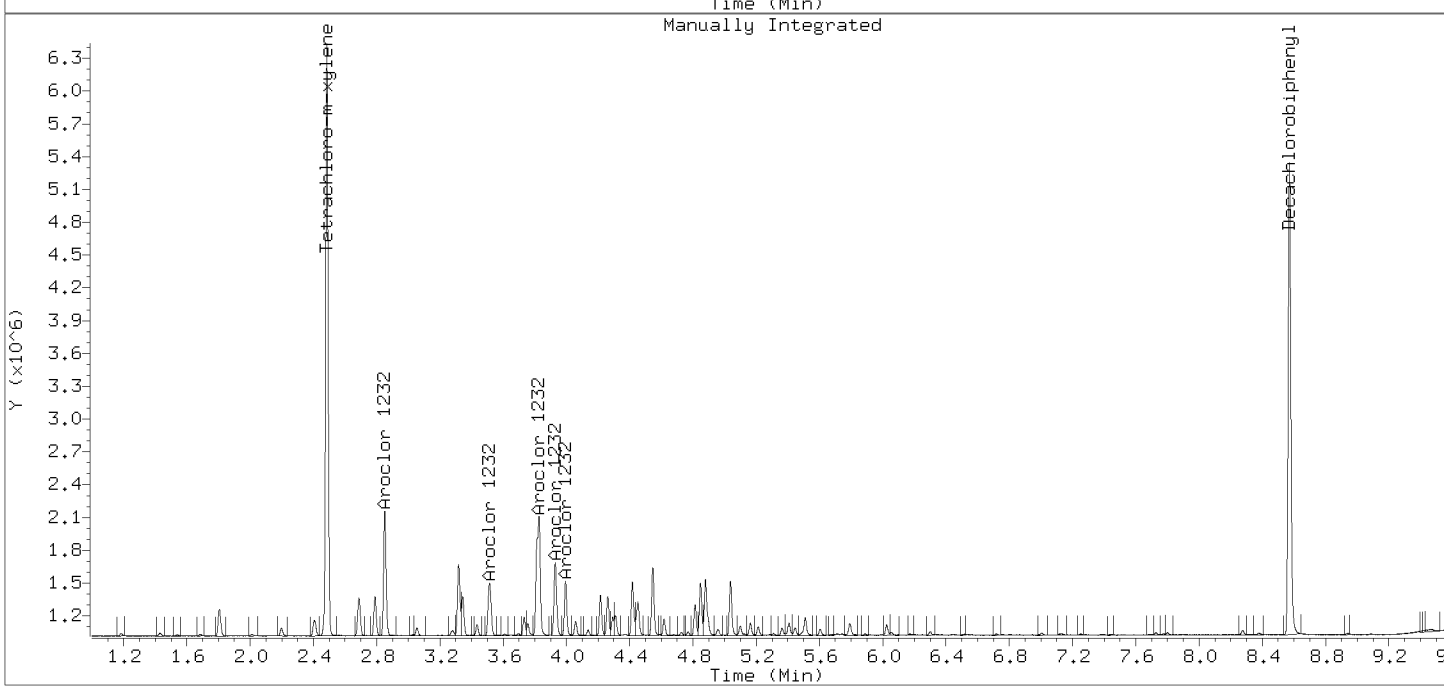
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 30-MAR-2018 15:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Tetrachloro-m-xylene	5786442	5786442	
Decachlorobiphenyl	5107751	5107751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	22405	18532	0.827	0.05		
1.431	40276	30743	0.763	0.10		
1.539	21364	14547	0.681	0.05		
1.688	39933	33591	0.841	0.10		
1.806	15485	14673	0.948	0.03		
2.405	121508	92266	0.759	0.30		
2.485	6015047	5620296	0.934	15.57	$ 2 Tetrachloro-m-xylene	
2.686	179100	142673	0.797	0.45		
2.788	272860	250720	0.919	0.68		
2.851	954082	877697	0.920	2.40		
3.054	143309	127113	0.887	0.36		
3.278	26506	18895	0.713	0.06		
3.318	1295039	1187612	0.917	3.27	3 Aroclor 1242	BA
3.344	747922	694661	0.929	1.88		
3.435	208397	185067	0.888	0.52		
3.512	1286692	915338	0.711	3.25	3 Aroclor 1242	BA
3.610	24609	19552	0.795	0.06		
3.651	23747	16018	0.675	0.05		
3.697	36677	35434	0.966	0.09		
3.731	326714	316997	0.970	0.82		
3.756	224700	206128	0.917	0.56		
3.826	3677233	2126529	0.578	9.28	3 Aroclor 1242	BA
3.929	1578983	1297420	0.822	3.98	3 Aroclor 1242	BA
3.994	1048461	998756	0.953	2.64	3 Aroclor 1242	BA
4.058	319715	283616	0.887	0.80		
4.137	129269	107709	0.833	0.32		
4.214	874601	807996	0.924	2.20		
4.260	836630	806365	0.964	2.11		
4.292	341738	359002	1.051	0.86		
4.310	446814	398295	0.891	1.12		
4.370	31927	21945	0.687	0.08		
4.416	1142103	1082234	0.948	2.88		
4.451	913690	659762	0.722	2.30		
4.545	1510362	1343728	0.890	3.81		
4.617	346342	309594	0.894	0.87		
4.680	28187	21496	0.763	0.07		
4.725	76119	62203	0.817	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	83108	78177	0.941	0.20	
4.812	699910	670567	0.958	1.76	
4.847	1202699	1133950	0.943	3.03	
4.878	1544124	1135518	0.735	3.90	
4.957	178912	133914	0.748	0.45	
5.037	1280421	1148948	0.897	3.23	
5.098	277704	209878	0.756	0.70	
5.161	321799	274805	0.854	0.81	
5.212	247007	219787	0.890	0.62	
5.284	20360	19125	0.939	0.05	
5.306	56120	46311	0.825	0.14	
5.362	209417	177043	0.845	0.52	
5.405	350926	280474	0.799	0.88	
5.444	220385	194602	0.883	0.55	
5.509	566724	432643	0.763	1.43	
5.603	171864	143328	0.834	0.43	
5.671	16234	12840	0.791	0.04	
5.714	36570	29147	0.797	0.09	
5.740	47521	42277	0.890	0.12	
5.760	14752	20251	1.373	0.03	
5.792	396864	315002	0.794	1.00	
5.888	62266	38258	0.614	0.15	
6.023	379459	274459	0.723	0.95	
6.168	37049	22222	0.600	0.09	
6.225	31667	17003	0.537	0.07	
6.298	108595	93635	0.862	0.27	
6.332	23600	21579	0.914	0.05	
6.372	18762	14987	0.799	0.04	
6.533	46511	33158	0.713	0.11	
6.799	24472	18645	0.762	0.06	
7.250	11396	10214	0.896	0.02	
7.726	29012	23418	0.807	0.07	
7.796	24839	18196	0.733	0.06	
8.274	54802	45908	0.838	0.13	
8.570	5404034	4589082	0.849	13.65	$ 12 Decachlorobiphenyl
8.934	12372	9481	0.766	0.03	
9.463	21668	13742	0.634	0.05	
9.959	26183	16834	0.643	0.06	
	39588648	33484611		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6015046	0.05000	0.049			
3 Aroclor 1242						CAS #: 53469-21-9		
3.318	3.318	0.000	1295038	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1286692	0.50000	0.51	0.00- 20.00	99.36	BA
3.825	3.827	-0.002	3677232	0.50000	0.52	0.00- 20.00	283.95	BA
3.928	3.929	-0.001	1578983	0.50000	0.52	0.00- 20.00	121.93	BA
3.994	3.995	-0.001	1048461	0.50000	0.51	0.00- 20.00	80.96	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5404034	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D

Date : 30-MAR-2018 18:57

Client ID: 1242-CCV

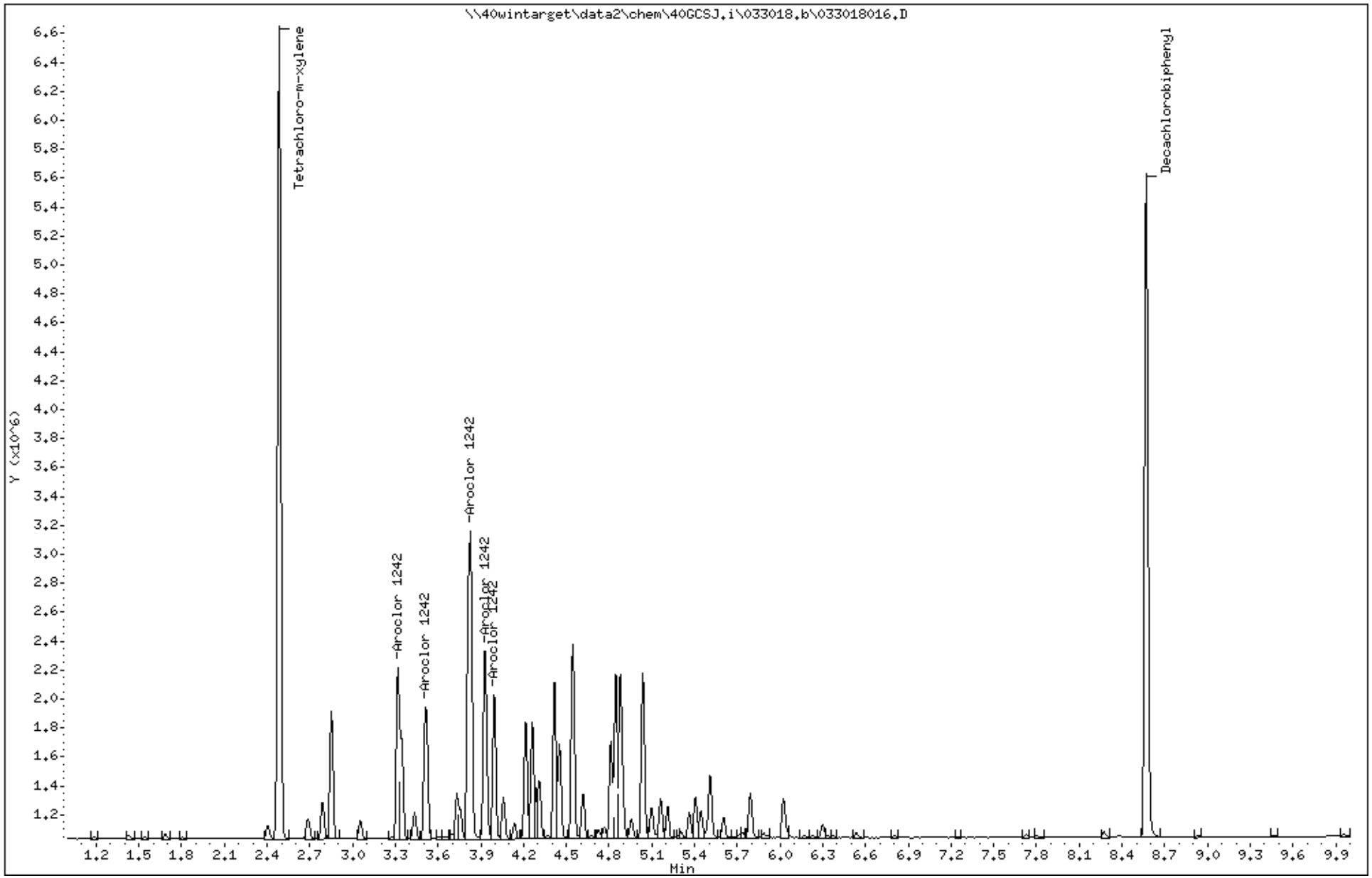
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

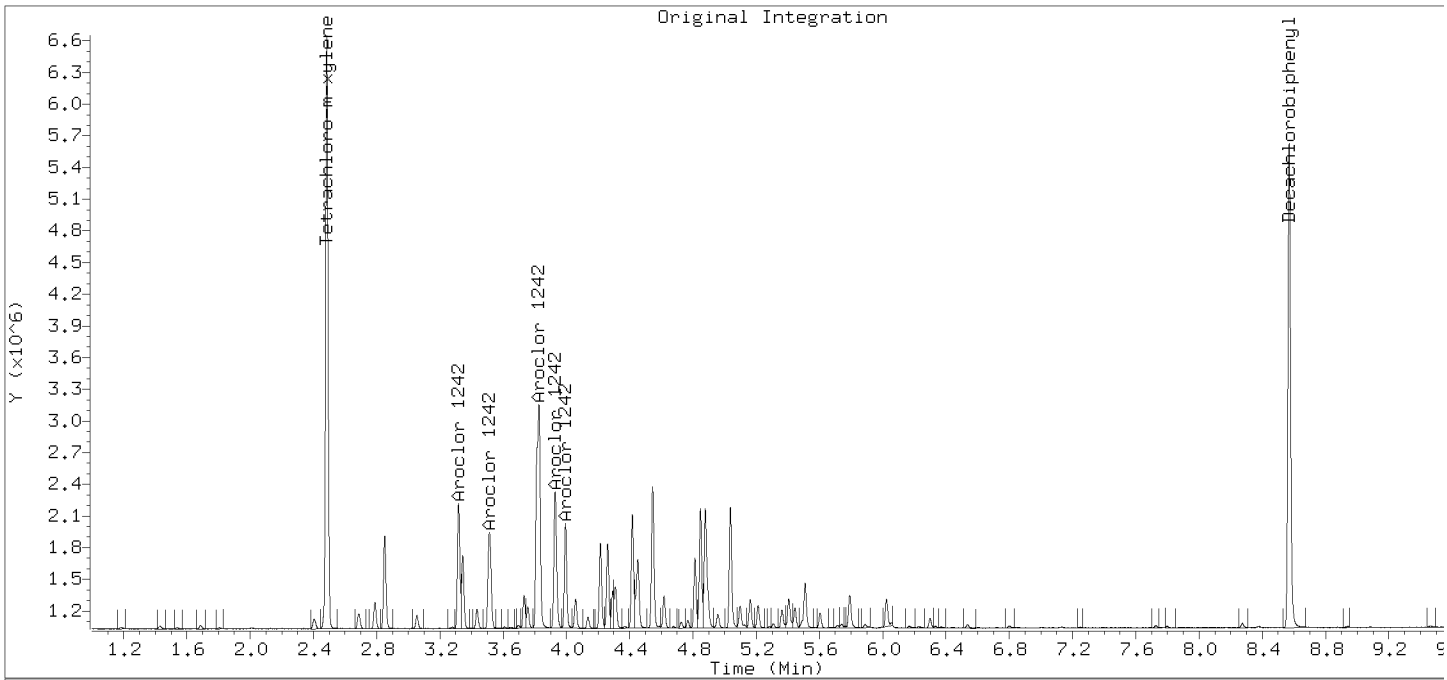
Operator: BLM

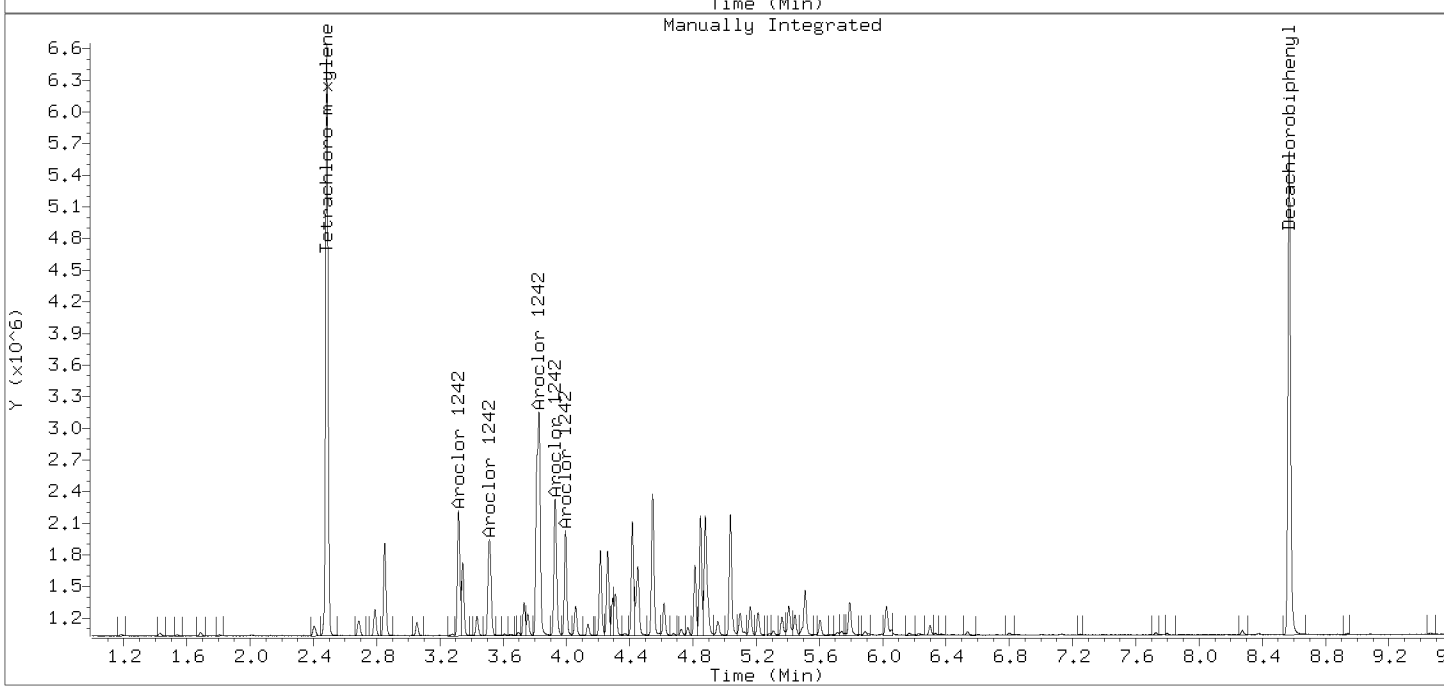
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 30-MAR-2018 18:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Tetrachloro-m-xylene	6015046	6015046	
Decachlorobiphenyl	5404034	5404034	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	23743	21786	0.918	0.05		
1.431	42573	33796	0.794	0.09		
1.539	19538	16382	0.838	0.04		
1.688	26670	20840	0.781	0.05		
2.009	21106	14213	0.673	0.04		
2.407	24464	17135	0.700	0.05		
2.484	5996033	5688808	0.949	13.82	$ 2 Tetrachloro-m-xylene	
2.688	36985	28736	0.777	0.08		
2.788	114561	110085	0.961	0.25		
2.851	189519	178114	0.940	0.42		
3.054	63934	56465	0.883	0.14		
3.317	724158	689393	0.952	1.61		
3.344	293401	285200	0.972	0.65		
3.434	70590	61038	0.865	0.15		
3.515	605094	436837	0.722	1.35		
3.610	21297	20577	0.966	0.04		
3.732	143953	139387	0.968	0.32		
3.758	59978	57765	0.963	0.13		
3.813	1059486	1251056	1.181	2.36		
3.826	1378434	1314517	0.954	3.08		
3.930	920109	719002	0.781	2.05		
3.993	609241	585972	0.962	1.36		
4.057	351411	322030	0.916	0.78		
4.135	144108	129994	0.902	0.32		
4.215	1509025	1393121	0.923	3.37		
4.260	1200305	1142114	0.952	2.68	6 Aroclor 1248	BA
4.291	489636	502528	1.026	1.09		
4.309	535463	499514	0.933	1.19		
4.417	1839335	1706679	0.928	4.11		
4.452	906103	791852	0.874	2.02		
4.545	2096301	1929033	0.920	4.68	6 Aroclor 1248	BA
4.590	32259	31498	0.976	0.07		
4.616	480516	450483	0.937	1.07		
4.679	26361	21165	0.803	0.05		
4.727	63117	52682	0.835	0.14		
4.767	112761	105685	0.937	0.25		
4.813	1058115	1021812	0.966	2.36	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	2023894	1938732	0.958	4.52	
4.878	2607370	1724490	0.661	5.82	6 Aroclor 1248
4.957	294339	252933	0.859	0.65	
5.037	1868361	1752219	0.938	4.17	6 Aroclor 1248
5.098	647325	522746	0.808	1.44	
5.162	783242	698611	0.892	1.75	
5.211	561748	518379	0.923	1.25	
5.285	36901	35375	0.959	0.08	
5.308	119034	103776	0.872	0.26	
5.362	492072	432077	0.878	1.10	
5.407	842341	721071	0.856	1.88	
5.445	502454	449600	0.895	1.12	
5.509	1386093	1166135	0.841	3.09	
5.603	390968	343634	0.879	0.87	
5.677	44342	38103	0.859	0.09	
5.712	81685	63787	0.781	0.18	
5.740	104901	92466	0.881	0.23	
5.792	970563	808450	0.833	2.16	
5.887	125899	79834	0.634	0.28	
5.994	27921	27544	0.986	0.06	
6.024	810195	743129	0.917	1.81	
6.054	150180	129242	0.861	0.33	
6.169	82251	54535	0.663	0.18	
6.227	50072	29229	0.584	0.11	
6.299	239788	203639	0.849	0.53	
6.333	44929	38318	0.853	0.10	
6.372	33147	28861	0.871	0.07	
6.507	33964	36968	1.088	0.07	
6.534	78218	67662	0.865	0.17	
6.603	15841	10420	0.658	0.03	
6.655	14206	9574	0.674	0.03	
6.718	39516	34211	0.866	0.08	
6.759	21499	19868	0.924	0.04	
6.801	46365	39497	0.852	0.10	
6.841	24902	16080	0.646	0.05	
6.945	9571	8007	0.837	0.02	
7.005	77691	65581	0.844	0.17	
7.124	19491	12504	0.642	0.04	
7.253	32171	28806	0.895	0.07	
7.281	16030	9600	0.599	0.03	
7.391	35261	27989	0.794	0.07	
7.442	39150	31763	0.811	0.08	
7.689	14454	14514	1.004	0.03	
7.726	24928	24323	0.976	0.05	
7.797	29344	20299	0.692	0.06	
7.901	34520	26168	0.758	0.07	
8.274	62888	53848	0.856	0.14	
8.376	17173	11520	0.671	0.03	
8.570	5412400	4745037	0.877	12.10	$ 12 Decachlorobiphenyl
9.954	16173	8104	0.501	0.03	
	44727454	40166552		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5996032	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1200304	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2096300	0.50000	0.50	0.00- 20.00	174.65	BA
4.812	4.812	0.000	1058114	0.50000	0.52	0.00- 20.00	88.15	BA
4.878	4.879	-0.001	2607369	0.50000	0.52	0.00- 20.00	217.23	BA
5.037	5.038	-0.001	1868361	0.50000	0.52	0.00- 20.00	155.66	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5412400	0.05000	0.049			

QC Flag Legend

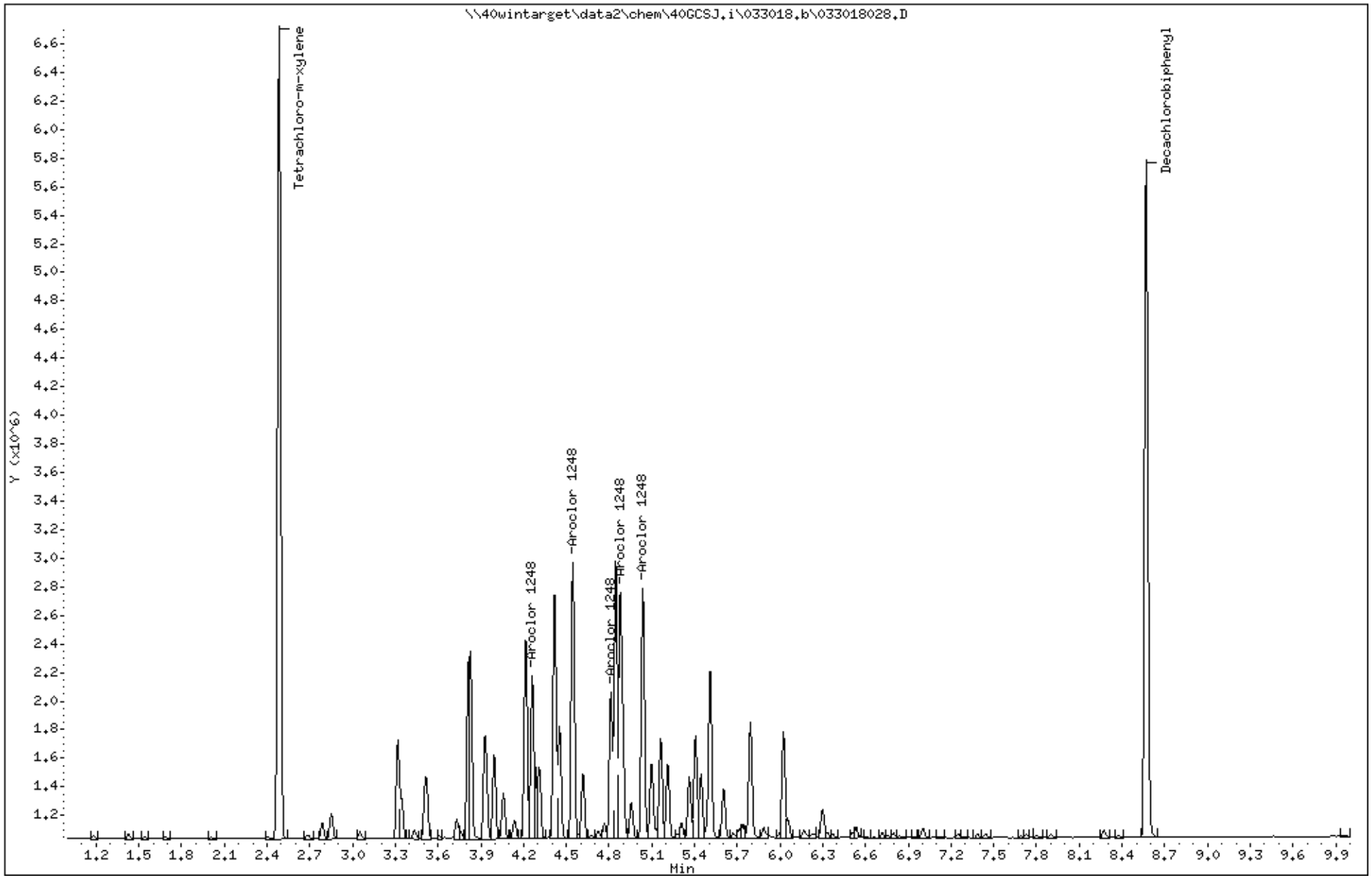
M - Compound response manually integrated.

Review Codes Legend

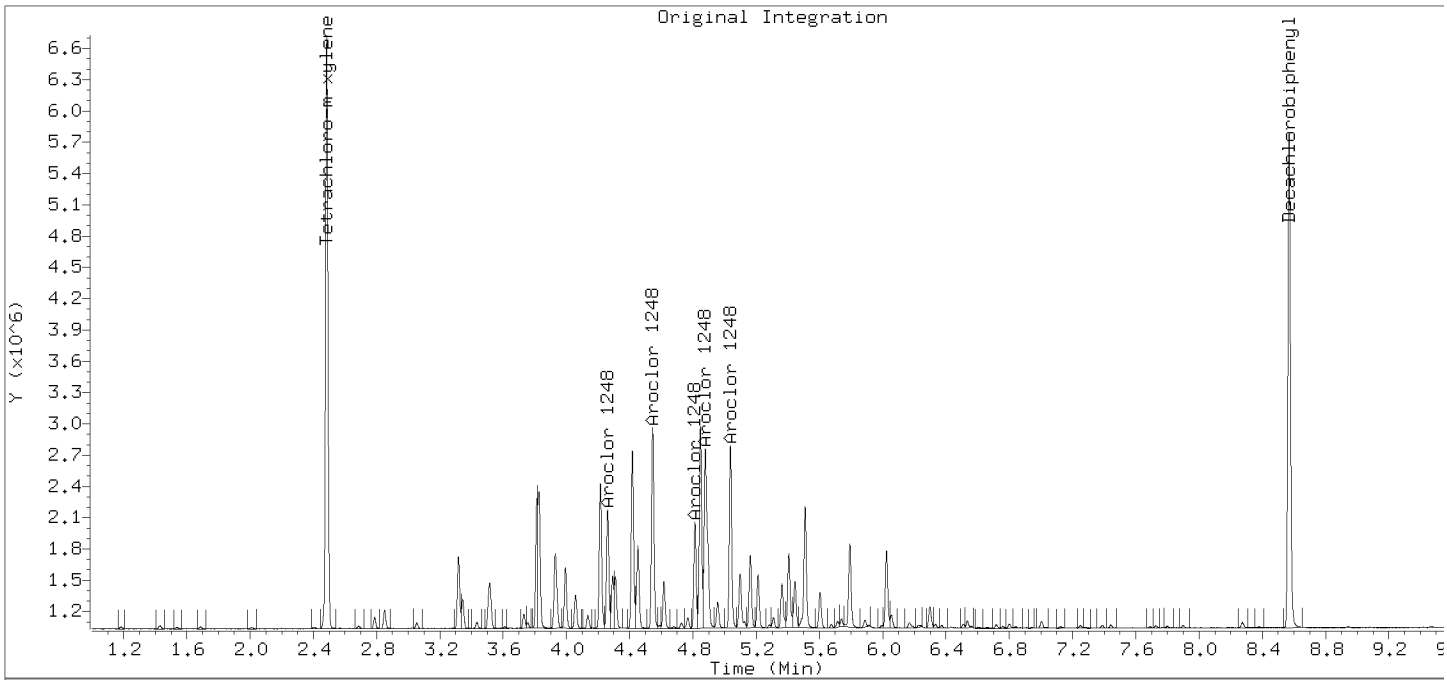
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

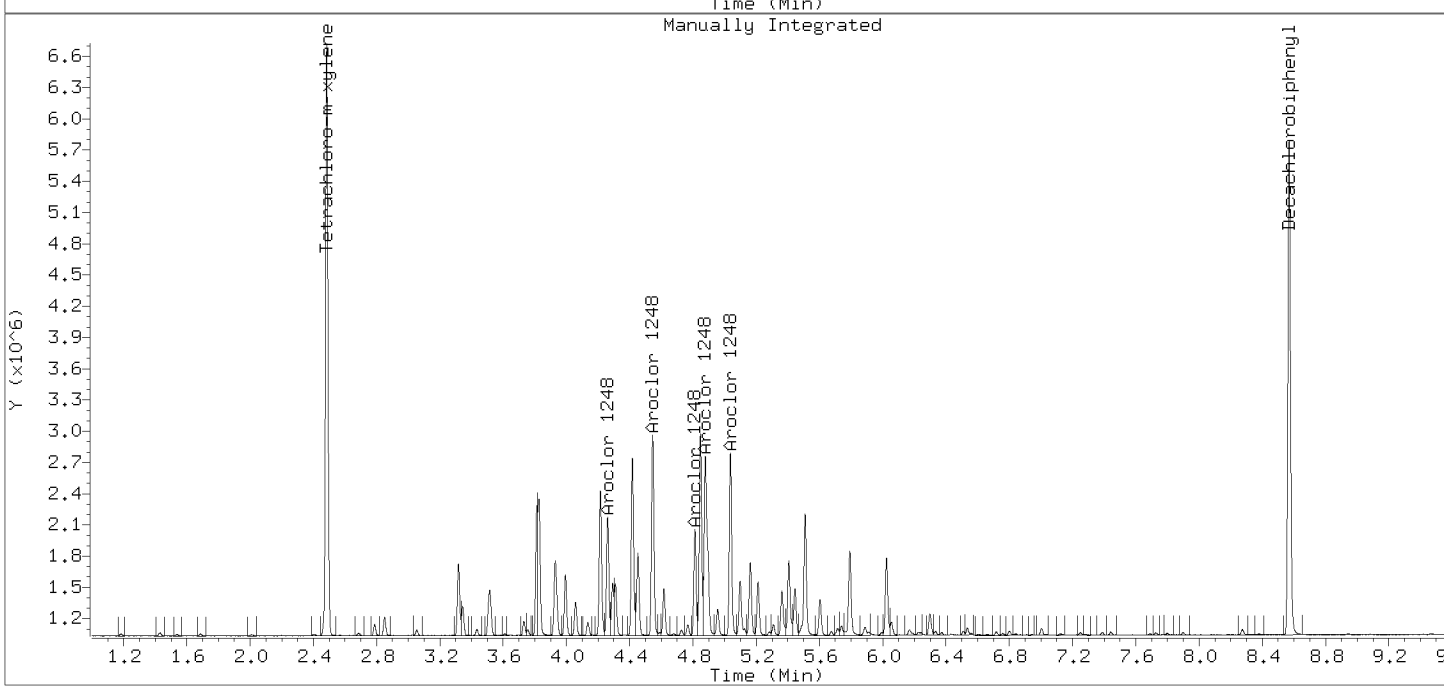
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Date : 30-MAR-2018 22:08
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 30-MAR-2018 22:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Aroclor 1248	1191553	1200304	BA
Tetrachloro-m-xylene	5996032	5996032	
Decachlorobiphenyl	5412400	5412400	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 02-APR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	16154	15722	0.973	0.05		
1.431	40789	33284	0.816	0.14		
1.539	21156	14382	0.680	0.07		
1.687	29481	23631	0.802	0.10		
1.805	313530	258991	0.826	1.13		
2.011	15864	10447	0.659	0.05		
2.198	86180	74148	0.860	0.31		
2.407	204753	152073	0.743	0.74		
2.485	6093788	5679637	0.932	22.42	$ 2 Tetrachloro-m-xylene	
2.688	448465	357329	0.797	1.62		
2.790	416134	380561	0.915	1.50		
2.851	1325810	1179596	0.890	4.79	4 Aroclor 1232	BA
3.054	92002	78604	0.854	0.33		
3.281	70037	51241	0.732	0.25		
3.318	778705	690578	0.887	2.81		
3.344	416625	384715	0.923	1.50		
3.434	121213	108900	0.898	0.43		
3.514	708338	501805	0.708	2.56	4 Aroclor 1232	BA
3.610	20966	17023	0.812	0.07		
3.696	22209	22046	0.993	0.08		
3.732	182695	184008	1.007	0.66		
3.756	128421	121765	0.948	0.46		
3.826	1952917	1160572	0.594	7.06	4 Aroclor 1232	BA
3.929	840949	706211	0.840	3.04	4 Aroclor 1232	BA
3.995	549024	518977	0.945	1.98	4 Aroclor 1232	BA
4.058	152417	139074	0.912	0.55		
4.136	62388	53070	0.851	0.22		
4.215	416966	389785	0.935	1.50		
4.261	400489	384404	0.960	1.44		
4.293	167377	170501	1.019	0.60		
4.311	207602	191849	0.924	0.75		
4.417	559143	522860	0.935	2.02		
4.451	445880	322841	0.724	1.61		
4.546	719415	656715	0.913	2.60		
4.617	172475	154881	0.898	0.62		
4.678	15028	10600	0.705	0.05		
4.728	37505	31580	0.842	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	39002	37600	0.964	0.14	
4.813	314740	298205	0.947	1.13	
4.848	550098	524328	0.953	1.99	
4.878	709754	527067	0.743	2.56	
4.960	79189	58785	0.742	0.28	
5.038	584443	528462	0.904	2.11	
5.098	120209	90036	0.749	0.43	
5.162	136101	119348	0.877	0.49	
5.213	98153	81384	0.829	0.35	
5.310	25396	22169	0.873	0.09	
5.362	83546	72458	0.867	0.30	
5.408	140180	118790	0.847	0.50	
5.446	88956	75053	0.844	0.32	
5.490	23944	30508	1.274	0.08	
5.511	204188	170637	0.836	0.73	
5.604	74900	60034	0.802	0.27	
5.675	12398	12921	1.042	0.04	
5.711	21399	13524	0.632	0.07	
5.742	17806	16371	0.919	0.06	
5.791	156241	118058	0.756	0.56	
5.889	16023	14870	0.928	0.05	
6.025	117831	100532	0.853	0.42	
6.057	35627	28507	0.800	0.12	
6.302	39938	33901	0.849	0.14	
6.508	11284	12044	1.067	0.04	
6.719	15956	14710	0.922	0.05	
6.760	12552	10006	0.797	0.04	
7.004	24797	21335	0.860	0.08	
7.124	28025	16782	0.599	0.10	
7.252	11398	10994	0.965	0.04	
7.394	10791	8003	0.742	0.03	
7.688	11458	10119	0.883	0.04	
7.726	29226	26651	0.912	0.10	
7.800	24113	22454	0.931	0.08	
8.276	65158	49314	0.757	0.23	
8.376	16293	12330	0.757	0.05	
8.571	5335689	4569067	0.856	19.30	$ 12 Decachlorobiphenyl
8.937	11731	9456	0.806	0.04	
9.412	9731	10131	1.041	0.03	
9.447	23570	13568	0.576	0.08	
9.464	36859	20070	0.545	0.13	
9.837	19446	13728	0.706	0.07	
	27641030	23758716		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 02-APR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6093787	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1325810	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	708337	0.50000	0.53	0.00- 20.00	53.43	BA
3.826	3.827	-0.001	1952916	0.50000	0.52	0.00- 20.00	147.30	BA
3.929	3.929	0.000	840948	0.50000	0.52	0.00- 20.00	63.43	BA
3.994	3.995	-0.001	549024	0.50000	0.50	0.00- 20.00	41.41	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5335689	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D

Date : 02-APR-2018 15:12

Client ID: 1232-CCV

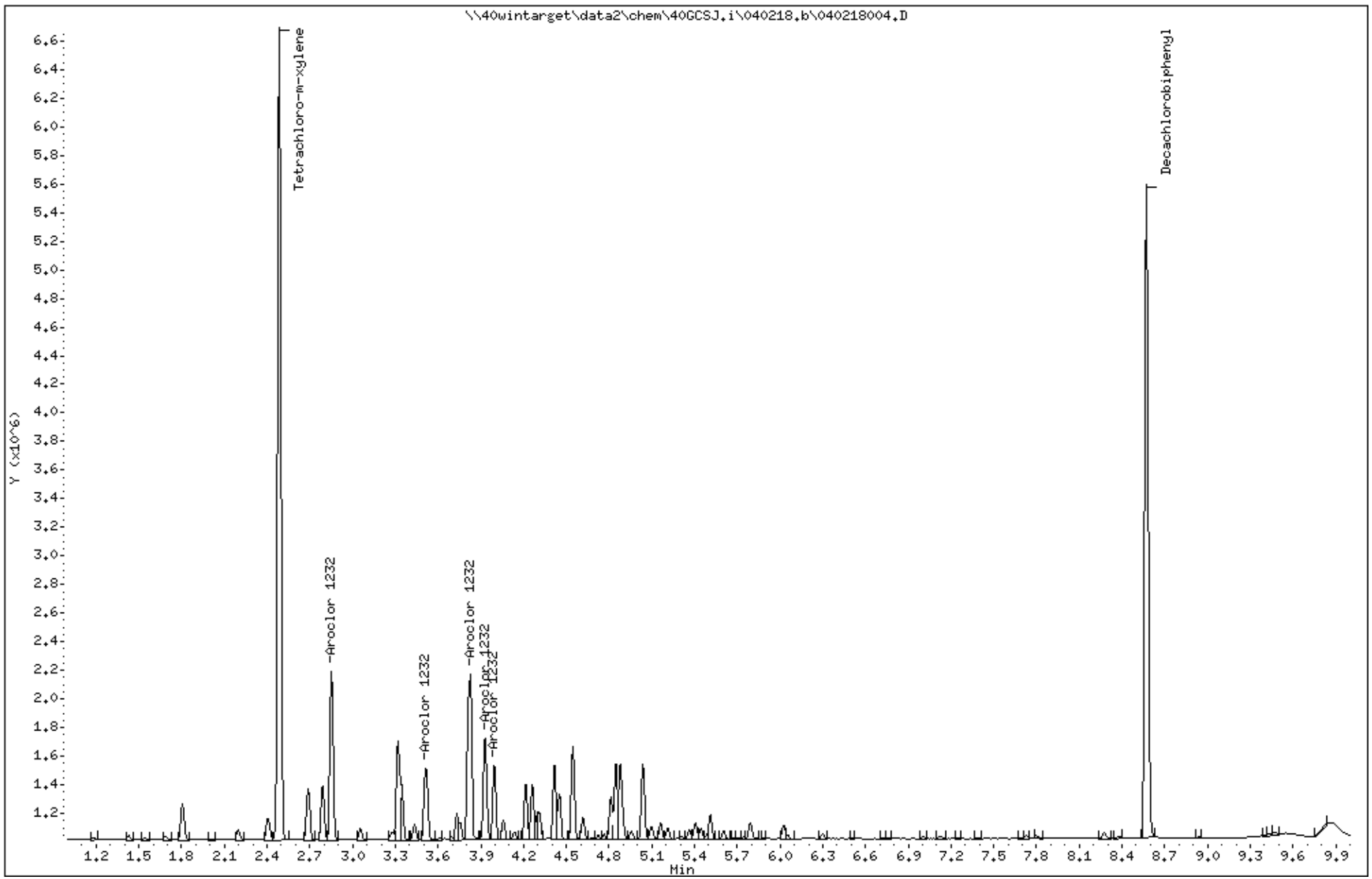
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

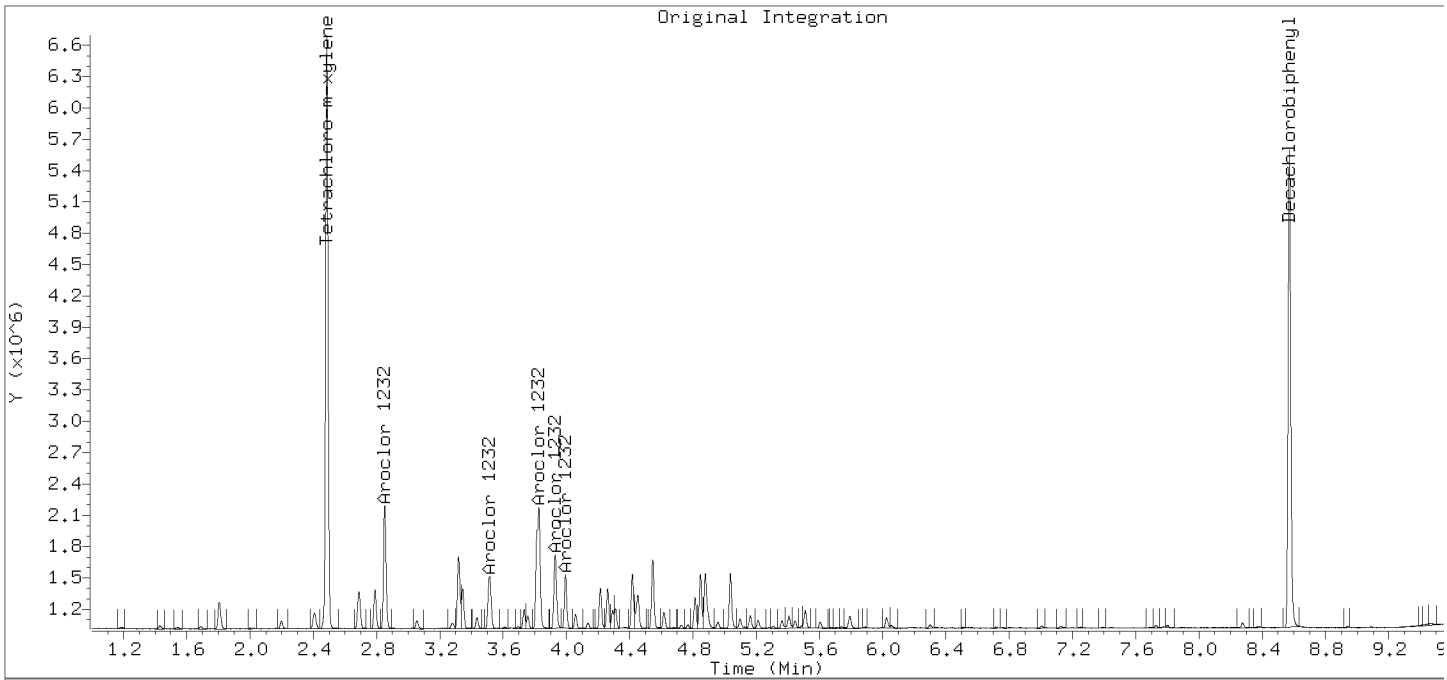
Operator: BLM

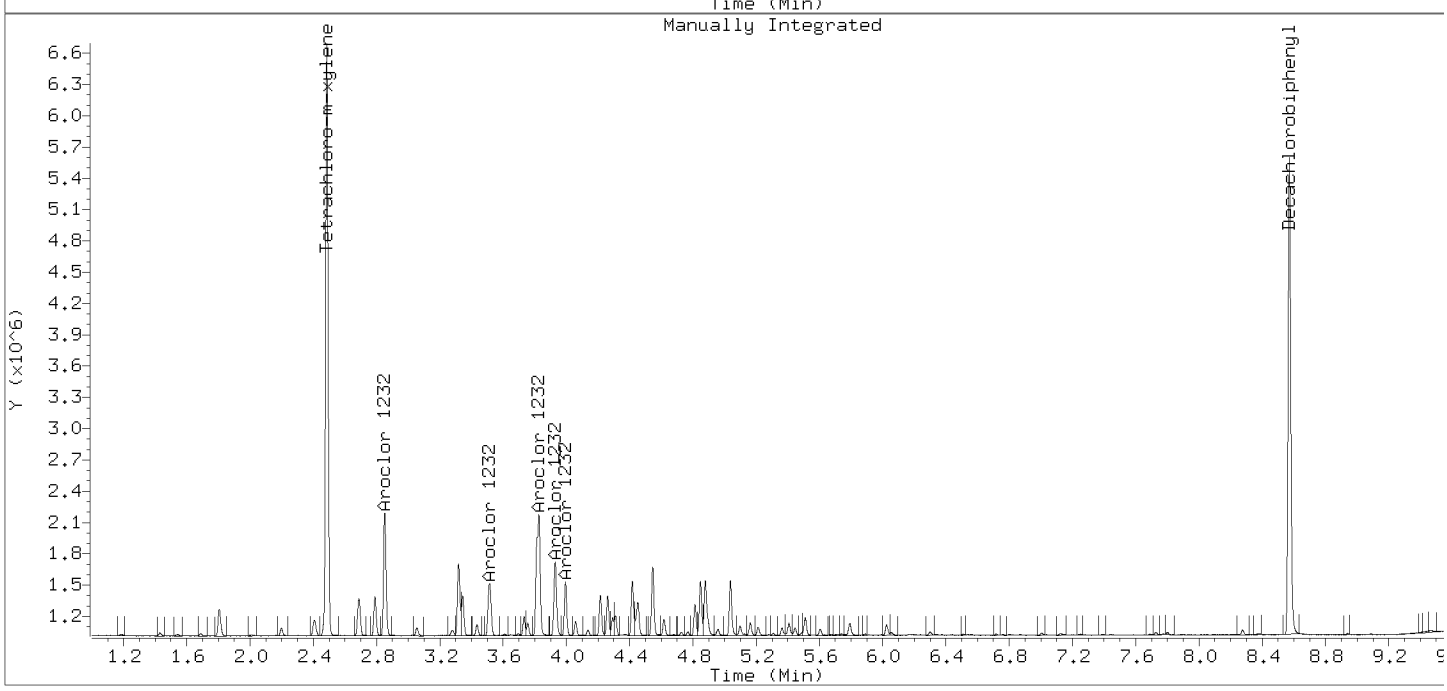
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 02-APR-2018 15:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Tetrachloro-m-xylene	6093787	6093787	
Decachlorobiphenyl	5335689	5335689	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 02-APR-2018 18:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	17821	15886	0.891	0.04		
1.432	45222	31242	0.691	0.11		
1.538	21572	13138	0.609	0.05		
1.684	19649	17728	0.902	0.04		
1.804	18570	13729	0.739	0.04		
2.008	17473	12300	0.704	0.04		
2.404	128596	93183	0.725	0.31		
2.485	6301500	5675047	0.901	15.74	$ 2 Tetrachloro-m-xylene	
2.686	181290	144628	0.798	0.44		
2.789	282866	255828	0.904	0.68		
2.851	998279	890440	0.892	2.42		
3.055	149201	132896	0.891	0.36		
3.279	23523	17758	0.755	0.05		
3.317	1346810	1245391	0.925	3.27	3 Aroclor 1242	BA
3.344	775959	708984	0.914	1.88		
3.433	214832	191809	0.893	0.52		
3.513	1332451	967164	0.726	3.24	3 Aroclor 1242	BA
3.610	20288	19701	0.971	0.04		
3.649	23030	15142	0.657	0.05		
3.696	37200	36579	0.983	0.09		
3.732	338729	330491	0.976	0.82		
3.756	227994	207114	0.908	0.55		
3.826	3811952	2226457	0.584	9.27	3 Aroclor 1242	BA
3.929	1635133	1328965	0.813	3.97	3 Aroclor 1242	BA
3.994	1082677	1011360	0.934	2.63	3 Aroclor 1242	BA
4.058	333649	291707	0.874	0.81		
4.136	127140	111419	0.876	0.30		
4.215	904321	837913	0.927	2.20		
4.261	870883	815866	0.937	2.11		
4.292	361286	365946	1.013	0.87		
4.310	456122	418421	0.917	1.11		
4.370	27706	22265	0.804	0.06		
4.416	1202805	1108026	0.921	2.92		
4.452	930625	682578	0.733	2.26		
4.545	1548148	1424049	0.920	3.76		
4.617	367660	320062	0.871	0.89		
4.681	29217	18746	0.642	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	76721	65147	0.849	0.18	
4.768	84491	82056	0.971	0.20	
4.813	720013	694730	0.965	1.75	
4.848	1238309	1160034	0.937	3.01	
4.879	1602520	1167458	0.729	3.90	
4.957	185477	140673	0.758	0.45	
5.037	1318958	1208381	0.916	3.21	
5.099	287262	219903	0.766	0.69	
5.161	332752	291805	0.877	0.80	
5.212	256334	228726	0.892	0.62	
5.285	23628	19200	0.813	0.05	
5.308	58032	47311	0.815	0.14	
5.361	216457	180162	0.832	0.52	
5.406	355180	298885	0.842	0.86	
5.445	232749	197910	0.850	0.56	
5.509	585766	445073	0.760	1.42	
5.604	174324	151343	0.868	0.42	
5.674	15874	12576	0.792	0.03	
5.717	37345	27942	0.748	0.09	
5.740	63412	42518	0.671	0.15	
5.792	404999	322540	0.796	0.98	
5.889	57301	38244	0.667	0.13	
5.992	11168	13936	1.248	0.02	
6.024	330253	282671	0.856	0.80	
6.055	67785	55247	0.815	0.16	
6.170	24499	20261	0.827	0.05	
6.226	28055	16848	0.601	0.06	
6.297	108624	91984	0.847	0.26	
6.334	22129	20539	0.928	0.05	
6.370	13430	14238	1.060	0.03	
6.536	42599	34034	0.799	0.10	
6.603	10119	6941	0.686	0.02	
6.801	22917	21257	0.928	0.05	
7.005	12330	10630	0.862	0.03	
7.122	9292	7693	0.828	0.02	
7.250	9404	8703	0.926	0.02	
7.727	33023	25894	0.784	0.08	
7.800	28192	22383	0.794	0.06	
8.275	53024	46006	0.868	0.12	
8.377	20659	13455	0.651	0.05	
8.570	5673409	4742501	0.836	13.80	$ 12 Decachlorobiphenyl
8.942	14966	9868	0.659	0.03	
9.464	11345	8871	0.782	0.02	
	41087307	34536535		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 02-APR-2018 18:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6301500	0.05000	0.051			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1346810	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1332451	0.50000	0.53	0.00- 20.00	98.93	BA
3.825	3.827	-0.002	3811952	0.50000	0.54	0.00- 20.00	283.04	BA
3.928	3.929	-0.001	1635133	0.50000	0.54	0.00- 20.00	121.41	BA
3.993	3.995	-0.002	1082677	0.50000	0.53	0.00- 20.00	80.39	BA
Average of Peak Amounts =					0.53400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5673408	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D

Date : 02-APR-2018 18:23

Client ID: 1242-CCV

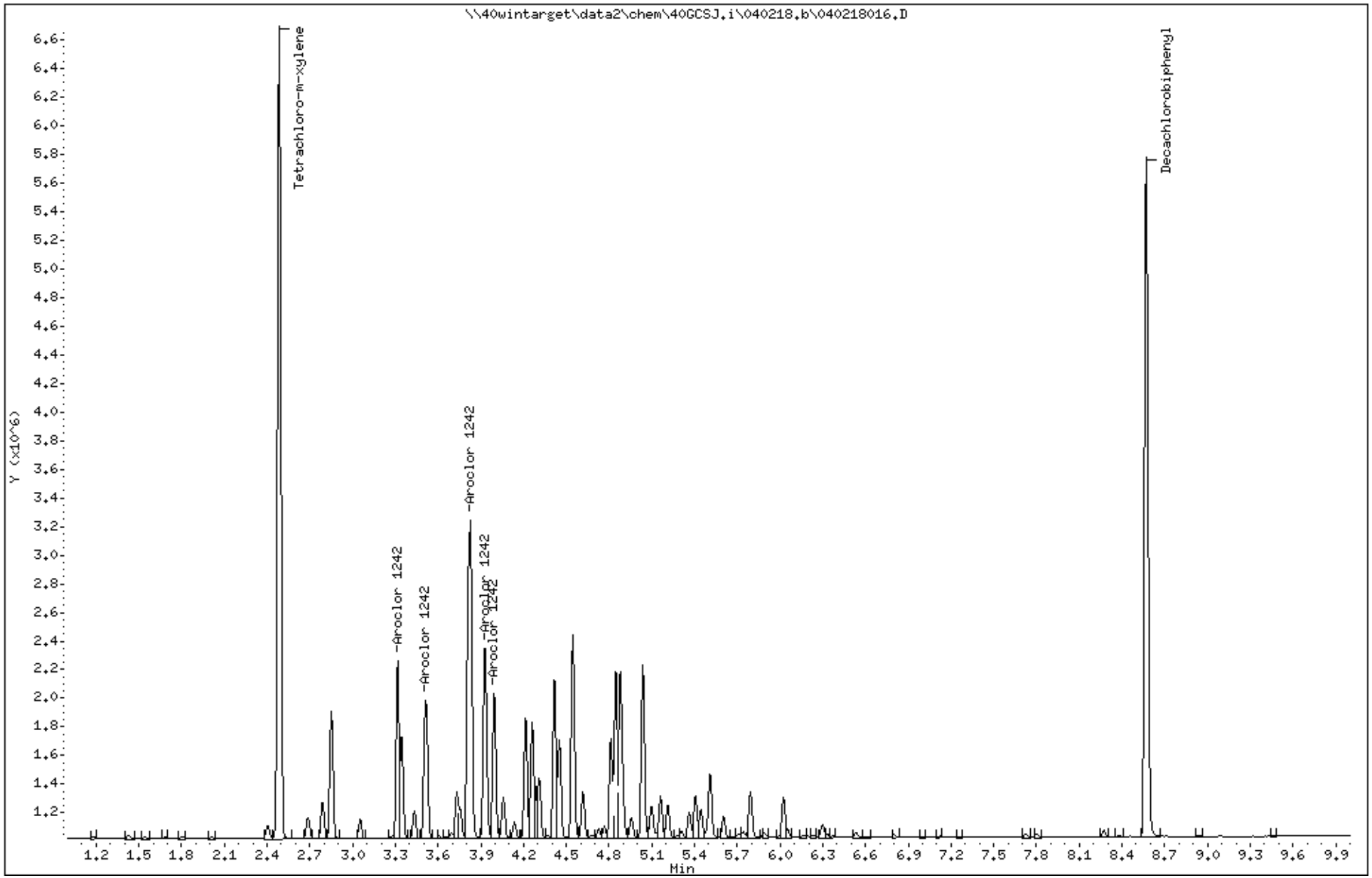
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

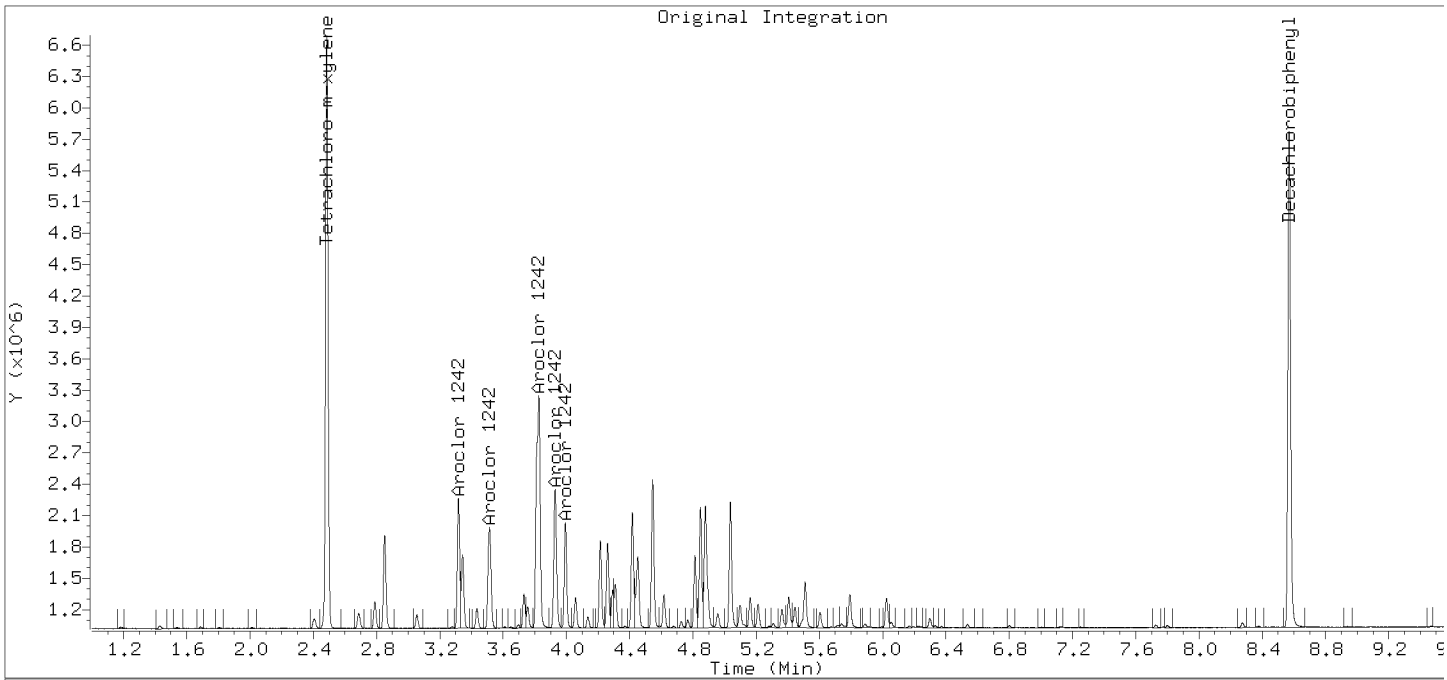
Operator: BLM

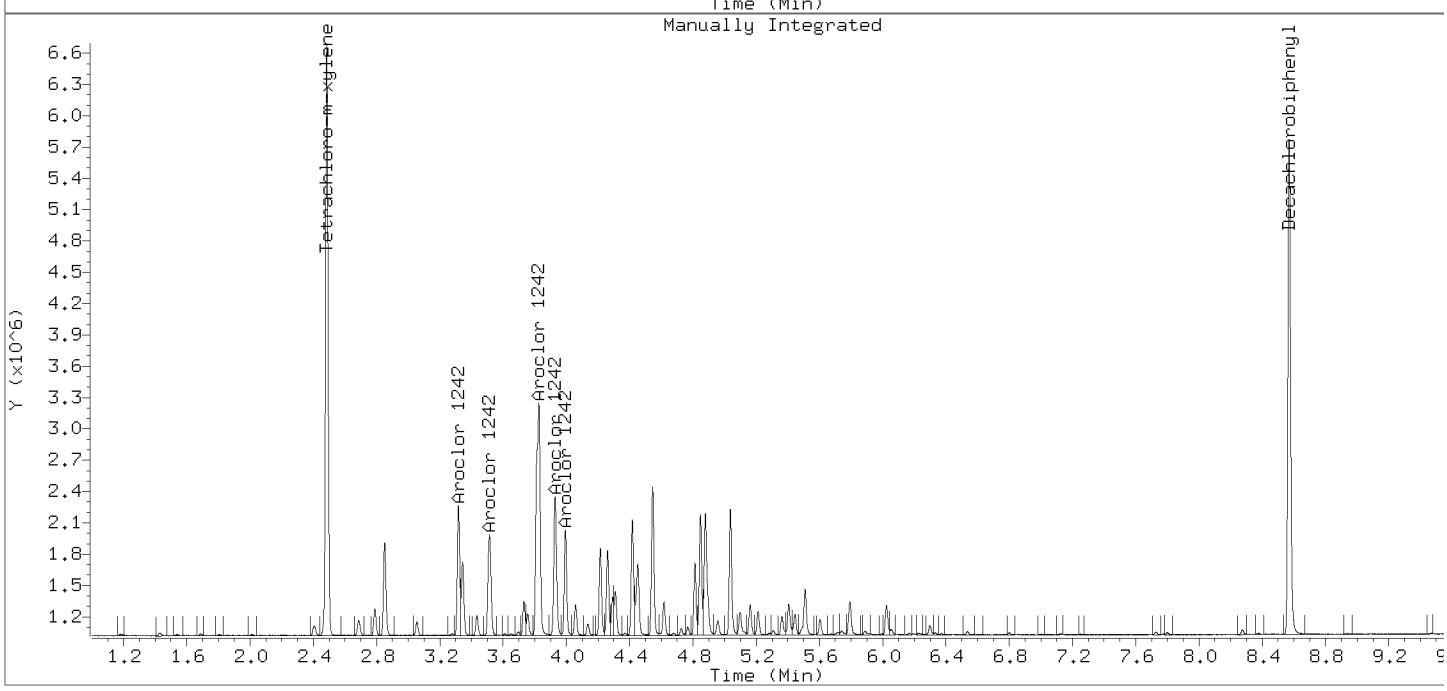
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 02-APR-2018 18:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Tetrachloro-m-xylene	6301500	6301500	
Decachlorobiphenyl	5673408	5673408	

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 1659955

Date Analyzed: 03/20/2018 18:36

Lab File ID: 032018.B\032018024.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018024.D
Lab Smp Id: 1659955 Client Smp ID: MB
Inj Date : 20-MAR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659955,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	13619	11690	0.858	0.07		
2.011	15606	9635	0.617	0.08		
2.484	9322963	9065387	0.972	48.97	$ 2 Tetrachloro-m-xylene	
2.786	17458	16507	0.946	0.09		
2.862	32305	22615	0.700	0.16		
2.917	12071	10271	0.851	0.06		
7.123	22988	15185	0.661	0.12		
7.728	40101	34441	0.859	0.21		
7.800	30450	24512	0.805	0.15		
8.275	77898	66175	0.850	0.40		
8.376	10767	11545	1.072	0.05		
8.571	9419048	7996274	0.849	49.54	$ 12 Decachlorobiphenyl	
8.937	10072	8741	0.868	0.05		
9.957	10352	8467	0.818	0.05		
	19035697	17301445		100.000		

Total unknown % area = 1.5

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018024.D
Lab Smp Id: 1659955 Client Smp ID: MB
Inj Date : 20-MAR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659955,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

2.483	2.484	-0.001	9322963	0.07562	38			

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3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

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4 Aroclor 1232 CAS #: 1114-16-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

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7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

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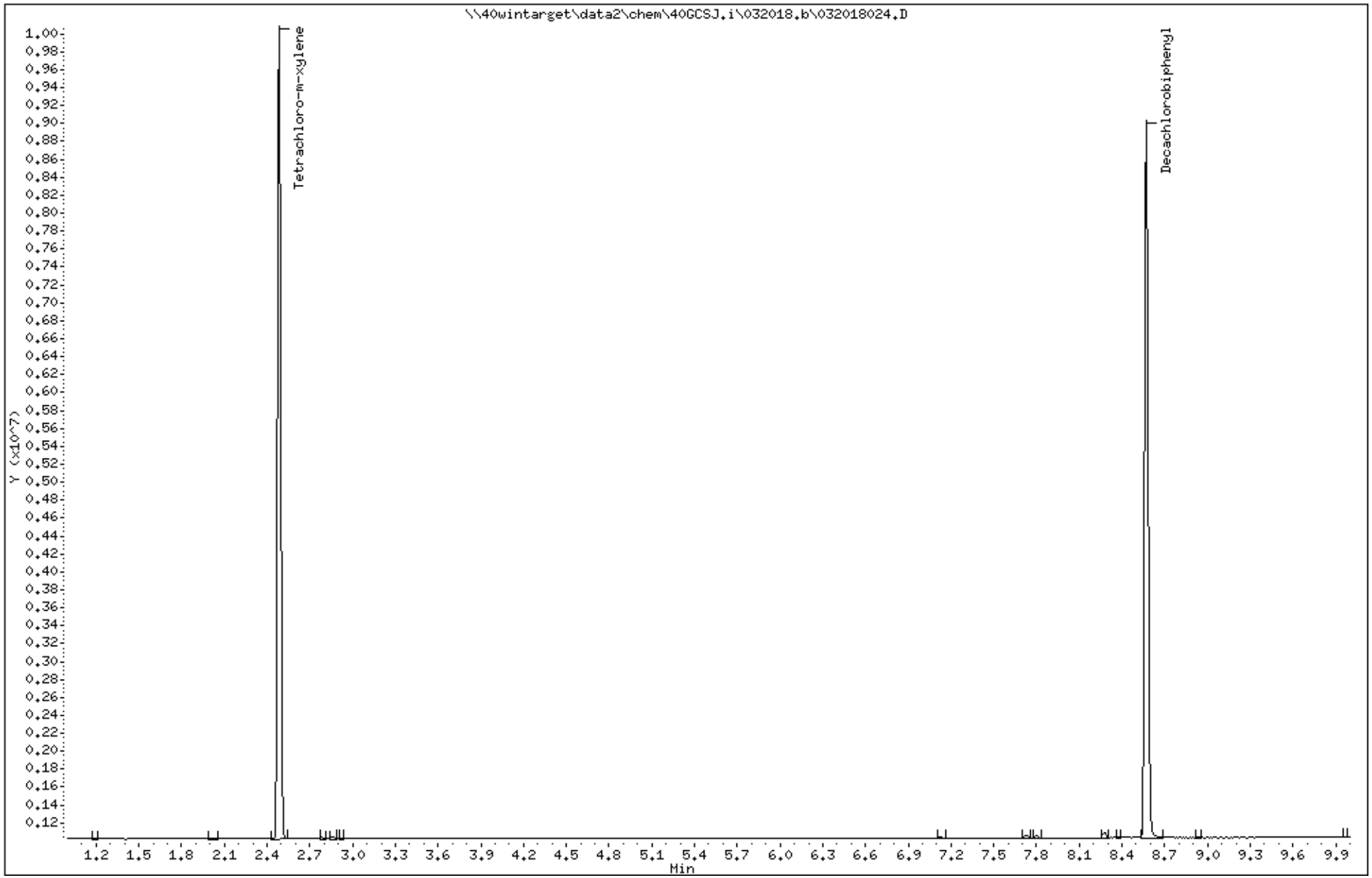
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9419048	0.08597		43		

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018024.D
Date : 20-MAR-2018 18:36
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1659955,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 18:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659955

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9322963	9322963	
Decachlorobiphenyl	9419048	9419048	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 1659956

Date Analyzed: 03/20/2018 18:52

Lab File ID: 032018.B\032018025.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	246	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018025.D
Lab Smp Id: 1659956 Client Smp ID: MBLCS
Inj Date : 20-MAR-2018 18:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659956,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	23571	15003	0.636	0.05		
1.432	12704	9856	0.776	0.02		
1.802	15819	14084	0.890	0.03		
2.194	14474	9435	0.652	0.03		
2.407	119116	88632	0.744	0.25		
2.485	10244660	9593751	0.936	22.38	$ 2 Tetrachloro-m-xylene	
2.687	184121	141915	0.771	0.39		
2.790	222272	199292	0.897	0.47		
2.851	978613	871337	0.890	2.10		
3.055	127089	111545	0.878	0.27		
3.274	25531	18455	0.723	0.05		
3.318	1251278	1152168	0.921	2.68	3 Aroclor 1242	BA
3.344	697599	649491	0.931	1.49		
3.435	203565	178587	0.877	0.43		
3.513	1228030	881723	0.718	2.63	3 Aroclor 1242	BA
3.651	22158	14515	0.655	0.04		
3.697	37092	35630	0.961	0.07		
3.732	319035	312864	0.981	0.68		
3.756	207421	199723	0.963	0.44		
3.827	3527402	2022319	0.573	7.57	3 Aroclor 1242	BA
3.929	1517023	1239789	0.817	3.25	3 Aroclor 1242	BA
3.995	1001488	938428	0.937	2.15	3 Aroclor 1242	BA
4.059	279147	247309	0.886	0.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	113013	98215	0.869	0.24	
4.215	825814	780726	0.945	1.77	
4.261	783090	753873	0.963	1.68	
4.293	315986	327371	1.036	0.67	
4.310	395640	360100	0.910	0.85	
4.372	25620	22395	0.874	0.05	
4.417	1090744	1026264	0.941	2.34	
4.452	841273	608235	0.723	1.80	
4.546	1394458	1242940	0.891	2.99	
4.618	326104	287262	0.881	0.70	
4.679	23088	17142	0.742	0.04	
4.727	73247	60493	0.826	0.15	
4.767	74204	69685	0.939	0.15	
4.813	634438	605615	0.955	1.36	
4.848	1123848	1058689	0.942	2.41	
4.879	1440511	1094399	0.760	3.09	
4.958	158311	119919	0.757	0.34	
5.038	1182924	1072126	0.906	2.54	
5.100	247209	186102	0.753	0.53	
5.162	278370	242284	0.870	0.59	
5.212	209070	181117	0.866	0.44	
5.285	17731	15901	0.897	0.03	
5.310	51311	40518	0.790	0.11	
5.363	180522	149105	0.826	0.38	
5.406	294901	250610	0.850	0.63	
5.448	185457	155670	0.839	0.39	
5.510	489792	355437	0.726	1.05	
5.604	150051	123709	0.824	0.32	
5.677	19062	13693	0.718	0.04	
5.713	31277	22828	0.730	0.06	
5.739	51427	33907	0.659	0.11	
5.793	314478	247645	0.787	0.67	
5.889	40961	29960	0.731	0.08	
6.025	293910	212478	0.723	0.63	
6.168	33950	18272	0.538	0.07	
6.299	64713	55029	0.850	0.13	
6.333	16716	12341	0.738	0.03	
6.511	10887	11196	1.028	0.02	
6.537	27100	16802	0.620	0.05	
6.712	12921	10361	0.802	0.02	
6.801	12328	10801	0.876	0.02	
7.007	25063	17232	0.688	0.05	
7.124	14315	12489	0.872	0.03	
7.254	9521	8951	0.940	0.02	
7.388	9638	8507	0.883	0.02	
7.690	12076	10303	0.853	0.02	
7.729	48215	39871	0.827	0.10	
7.799	29794	26579	0.892	0.06	
8.275	83328	73864	0.886	0.17	
8.375	22198	13404	0.604	0.04	
8.570	10175612	8512680	0.837	21.86	$ 12 Decachlorobiphenyl
	46545428	39670946		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018025.D
Lab Smp Id: 1659956 Client Smp ID: MBLCS
Inj Date : 20-MAR-2018 18:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659956,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10244659	0.08309	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1251278	0.49395	250	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1228029	0.48731	240	0.00- 20.00	98.14	BA
3.826	3.827	-0.001	3527401	0.49567	250	0.00- 20.00	281.90	BA
3.929	3.929	0.000	1517023	0.49877	250	0.00- 20.00	121.24	BA
3.994	3.995	-0.001	1001488	0.48907	240	0.00- 20.00	80.04	BA
Average of Peak Concentrations =					250			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10175611	0.09288	46	

QC Flag Legend

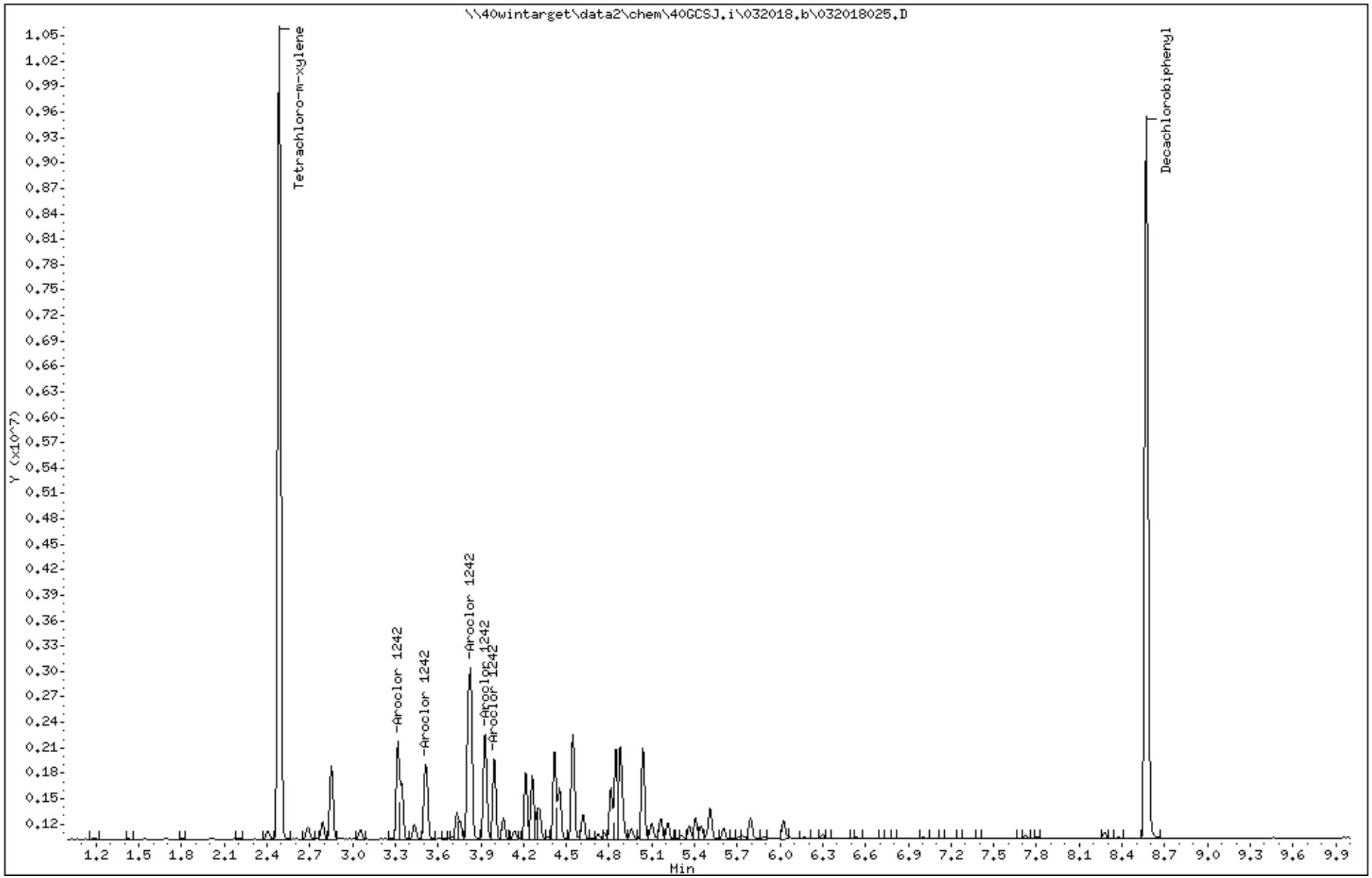
M - Compound response manually integrated.

Review Codes Legend

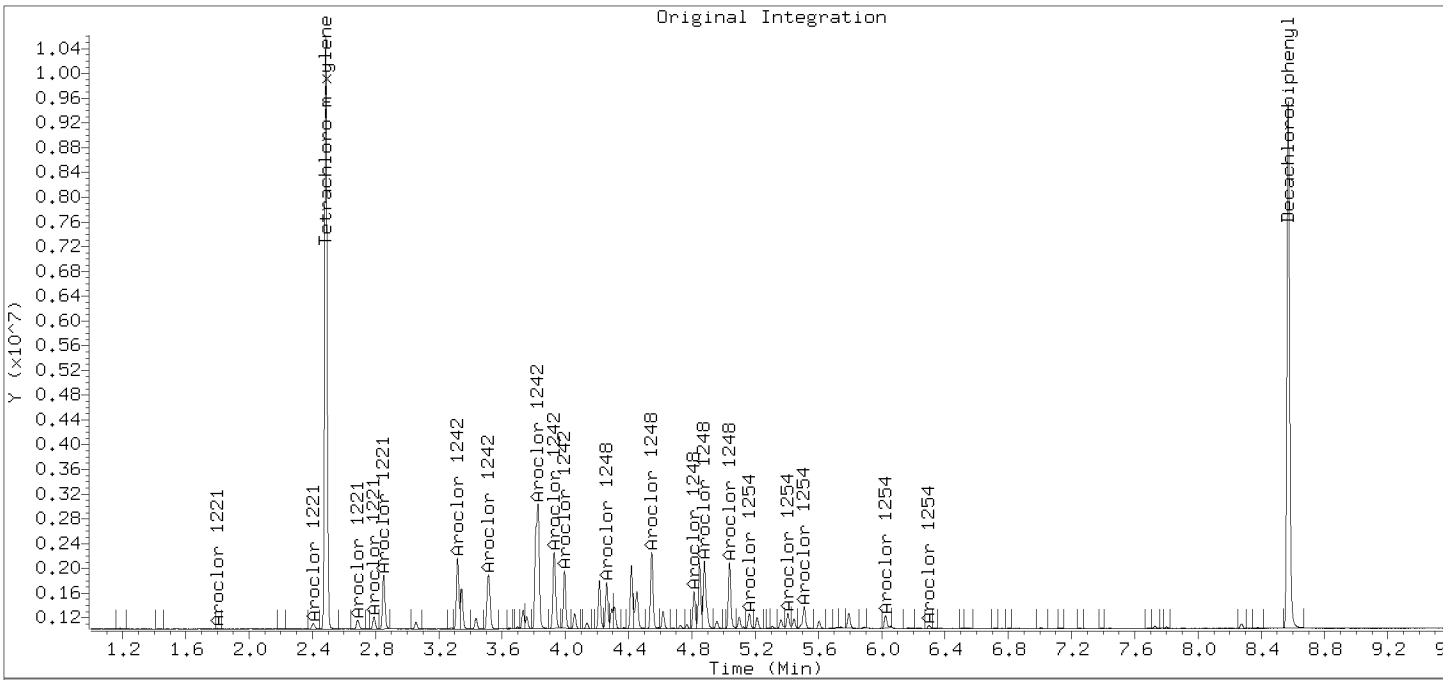
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

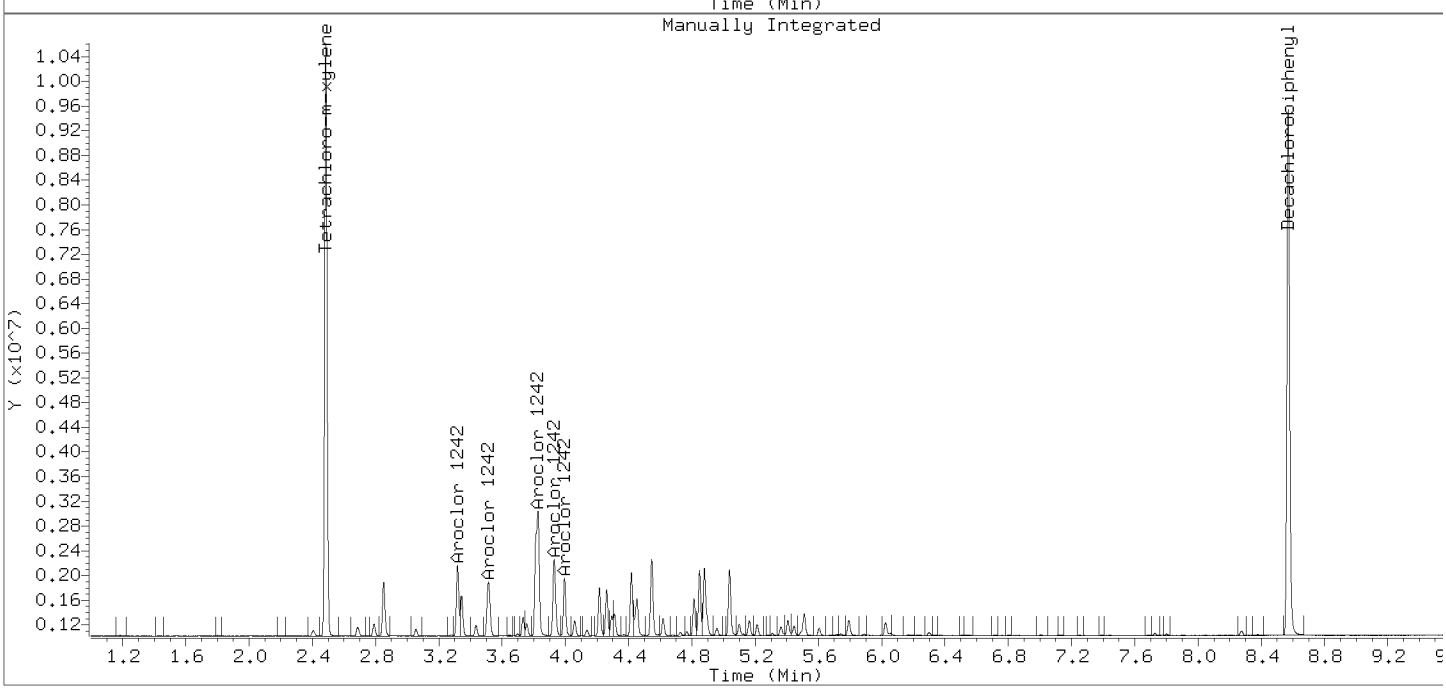
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018025.D
Date : 20-MAR-2018 18:52
Client ID: MBLCS
Sample Info: 1659956,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 18:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659956





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1232	966260	0	
Aroclor 1232	966260	0	
Aroclor 1232	966260	0	
Aroclor 1232	966260	0	

Aroclor 1232	966260	0	
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10244659	10244659	
Decachlorobiphenyl	10175611	10175611	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/22/2018 07:22

Lab Sample ID: 1662163

Date Analyzed: 03/23/2018 13:57

Lab File ID: 032318.B\032318006.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318006.D
Lab Smp Id: 1662163 Client Smp ID: MB
Inj Date : 23-MAR-2018 13:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662163,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.428	12179	8452	0.694	0.06		
2.199	39819	28826	0.724	0.20		
2.485	9488273	9225313	0.972	47.96	$ 2 Tetrachloro-m-xylene	
2.787	18993	15333	0.807	0.09		
6.191	15894	10973	0.690	0.08		
7.120	20829	15418	0.740	0.10		
7.688	12321	11087	0.900	0.06		
7.728	51572	42784	0.830	0.26		
7.799	42938	31312	0.729	0.21		
8.274	88379	75262	0.852	0.44		
8.375	15083	10936	0.725	0.07		
8.570	9964295	8762351	0.879	50.42	$ 12 Decachlorobiphenyl	
9.958	11581	8016	0.692	0.05		
	19782157	18246063		100.000		

Total unknown % area = 1.6

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318006.D
Lab Smp Id: 1662163 Client Smp ID: MB
Inj Date : 23-MAR-2018 13:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662163,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	9488272	0.07696	38			

---

3 Aroclor 1242						CAS #: 53469-21-9		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor 1232						CAS #: 1114-16-5		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9964294	0.09095		45		

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318006.D

Date : 23-MAR-2018 13:57

Client ID: MB

Instrument: 40GCSJ.i

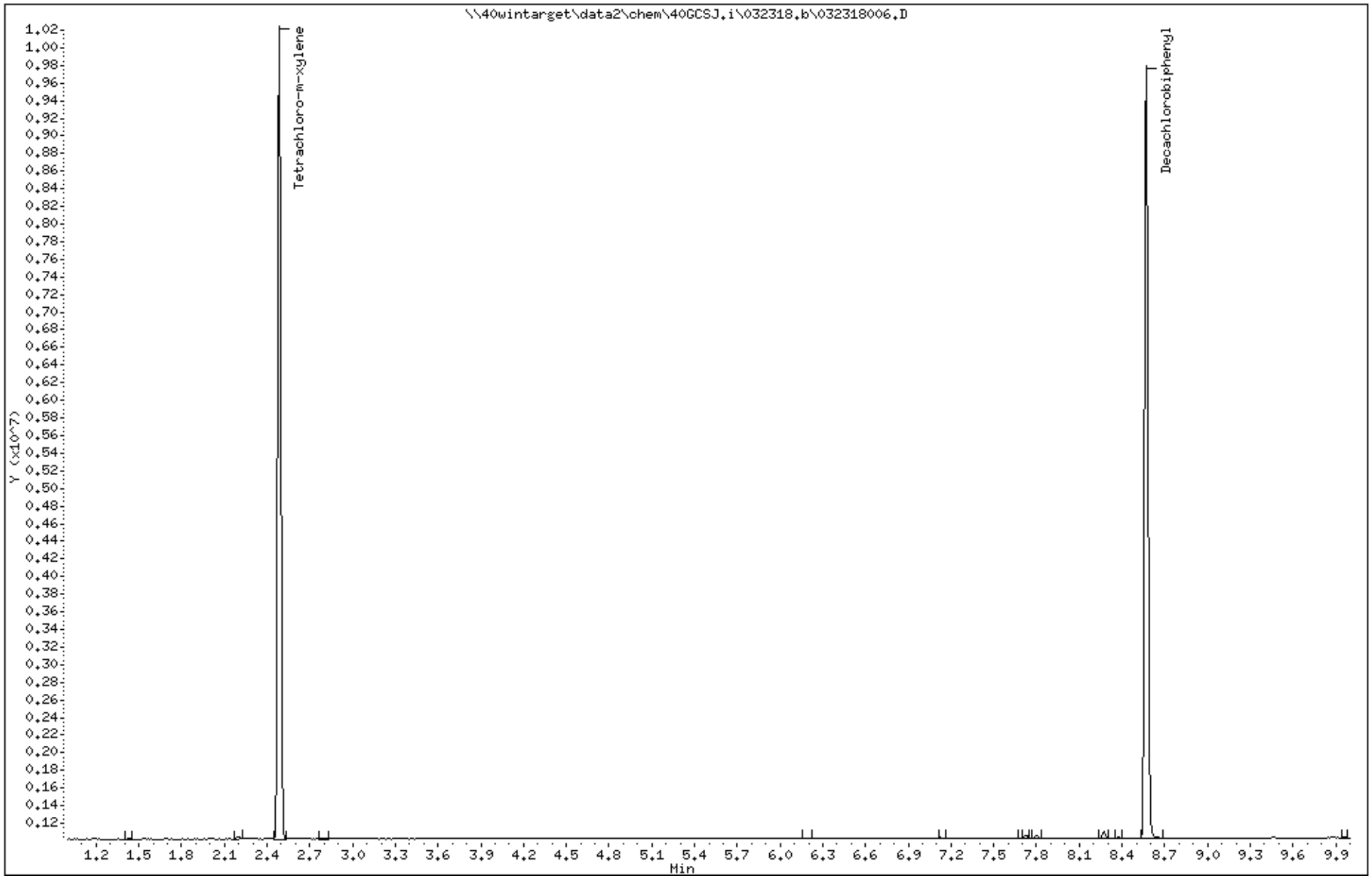
Sample Info: 1662163,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 13:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662163

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
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Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9488272	9488272	
Decachlorobiphenyl	9964294	9964294	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/22/2018 07:22

Lab Sample ID: 1662164

Date Analyzed: 03/23/2018 14:13

Lab File ID: 032318.B\032318007.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	240	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318007.D
Lab Smp Id: 1662164 Client Smp ID: MBLCS
Inj Date : 23-MAR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662164,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	25790	17808	0.691	0.05		
1.432	12409	8137	0.656	0.02		
1.540	13299	8815	0.663	0.02		
1.687	10080	8978	0.891	0.02		
1.806	16788	14720	0.877	0.03		
2.010	19646	11195	0.570	0.04		
2.198	61085	36363	0.595	0.13		
2.405	115332	89419	0.775	0.25		
2.485	9614397	9257696	0.963	21.25	$ 2 Tetrachloro-m-xylene	
2.688	180548	140688	0.779	0.39		
2.789	216380	198026	0.915	0.47		
2.851	953862	863098	0.905	2.10		
3.025	12733	11128	0.874	0.02		
3.055	126513	111950	0.885	0.27		
3.280	25615	17643	0.689	0.05		
3.318	1222541	1138276	0.931	2.70	3 Aroclor 1242	BA
3.344	687291	645001	0.938	1.51		
3.434	191547	173259	0.905	0.42		
3.513	1196708	864952	0.723	2.64	3 Aroclor 1242	BA
3.644	23856	16235	0.681	0.05		
3.696	35097	35030	0.998	0.07		
3.731	312282	309479	0.991	0.69		
3.756	206043	200912	0.975	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	3447797	1989905	0.577	7.62	3 Aroclor 1242
3.929	1477112	1213033	0.821	3.26	3 Aroclor 1242
3.994	974039	927670	0.952	2.15	3 Aroclor 1242
4.058	261079	241575	0.925	0.57	
4.136	111600	99223	0.889	0.24	
4.215	814232	767910	0.943	1.80	
4.261	769342	738367	0.960	1.70	
4.293	315345	320823	1.017	0.69	
4.310	383704	354608	0.924	0.84	
4.370	27952	20073	0.718	0.06	
4.417	1078345	1003071	0.930	2.38	
4.451	810870	603985	0.745	1.79	
4.546	1341421	1234460	0.920	2.96	
4.590	16928	19000	1.122	0.03	
4.617	310486	283581	0.913	0.68	
4.675	25487	18124	0.711	0.05	
4.725	69985	57225	0.818	0.15	
4.768	71037	68297	0.961	0.15	
4.813	622451	600194	0.964	1.37	
4.847	1113083	1059991	0.952	2.46	
4.879	1402153	1030479	0.735	3.10	
4.957	154034	117246	0.761	0.34	
5.037	1153369	1068778	0.927	2.55	
5.099	238222	177247	0.744	0.52	
5.162	276788	243312	0.879	0.61	
5.212	204294	181920	0.890	0.45	
5.283	19559	15231	0.779	0.04	
5.307	50273	40777	0.811	0.11	
5.363	178136	152492	0.856	0.39	
5.407	293043	246793	0.842	0.64	
5.445	178647	156628	0.877	0.39	
5.509	472730	366850	0.776	1.04	
5.603	139500	126608	0.908	0.30	
5.674	16407	14094	0.859	0.03	
5.716	30024	22960	0.765	0.06	
5.740	35645	31290	0.878	0.07	
5.790	303865	245355	0.807	0.67	
5.889	45697	30027	0.657	0.10	
6.023	253370	216670	0.855	0.56	
6.054	46018	38006	0.826	0.10	
6.170	17280	12714	0.736	0.03	
6.299	64163	52337	0.816	0.14	
6.334	17201	11227	0.653	0.03	
6.373	12829	9829	0.766	0.02	
6.447	9389	7793	0.830	0.02	
6.534	13316	13621	1.023	0.02	
6.719	11956	10720	0.897	0.02	
6.799	15036	10971	0.730	0.03	
7.005	18123	16200	0.894	0.04	
7.122	34626	17865	0.516	0.07	
7.692	14611	12874	0.881	0.03	
7.725	55115	46117	0.837	0.12	
7.800	45537	34601	0.760	0.10	
8.272	88406	75953	0.859	0.19	
8.377	13738	11761	0.856	0.03	
8.569	9967953	8439253	0.847	22.42	$ 12 Decachlorobiphenyl
9.470	14038	9031	0.643	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	45227225	39115553		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318007.D
Lab Smp Id: 1662164 Client Smp ID: MBLCS
Inj Date : 23-MAR-2018 14:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662164,
Misc Info : 17567,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032318.b\pcba030618.m
Meth Date : 06-Apr-2018 08:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9614397	0.07798	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1222540	0.48261	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1196707	0.47488	240	0.00- 20.00	97.89	BA
3.826	3.827	-0.001	3447797	0.48448	240	0.00- 20.00	282.02	BA
3.929	3.929	0.000	1477112	0.48565	240	0.00- 20.00	120.82	BA
3.994	3.995	-0.001	974038	0.47566	240	0.00- 20.00	79.67	BA
Average of Peak Concentrations =					240			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9967952	0.09098	45

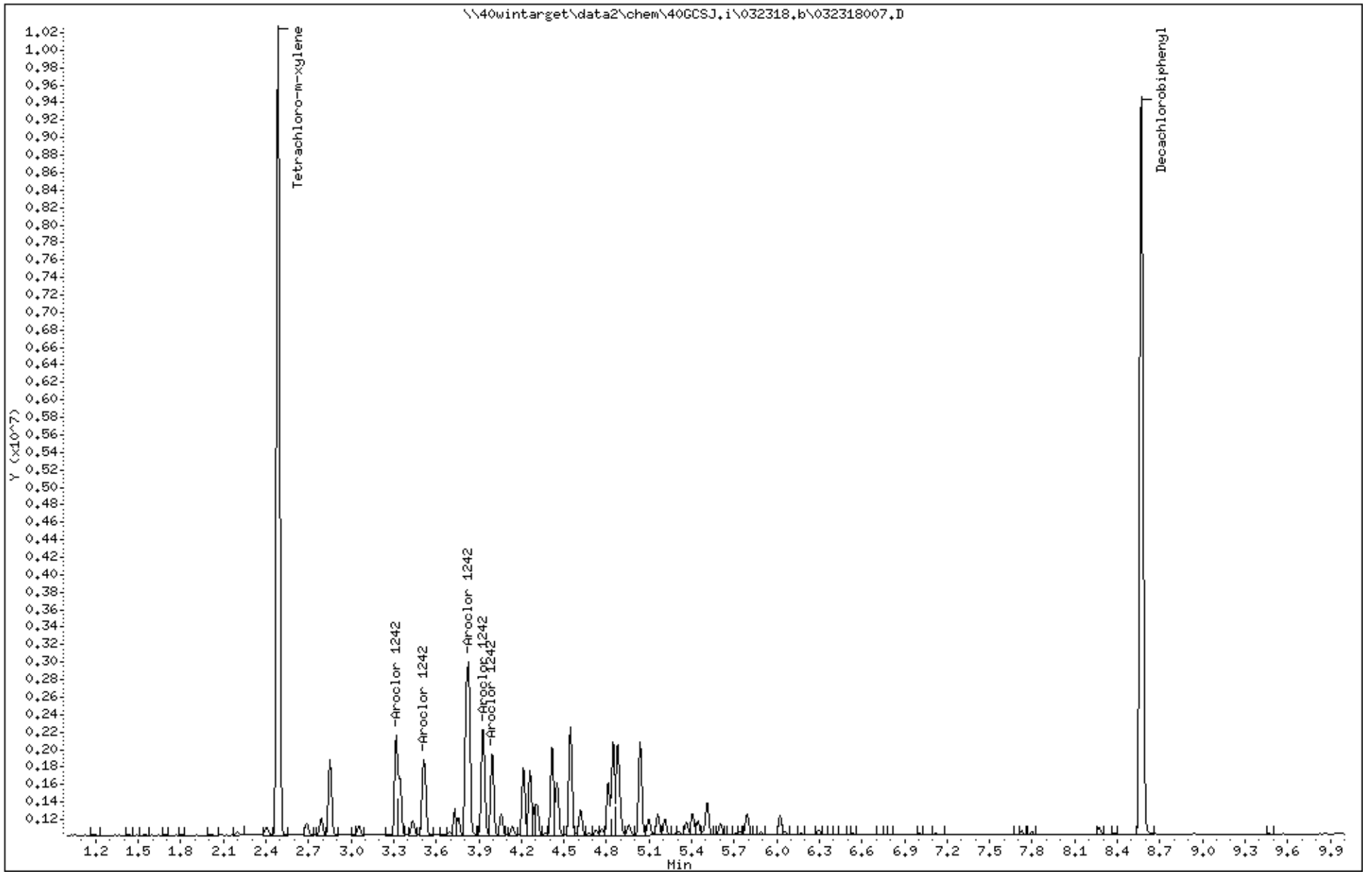
QC Flag Legend

M - Compound response manually integrated.

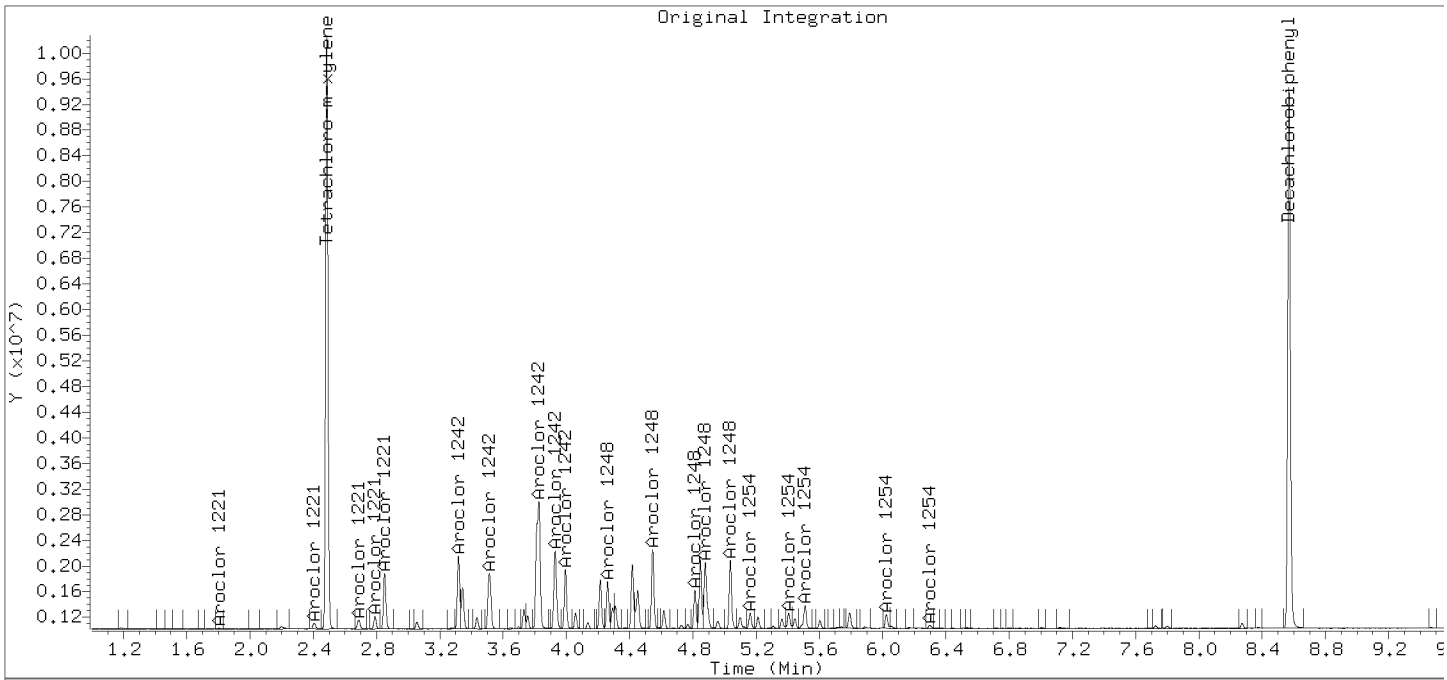
Review Codes Legend

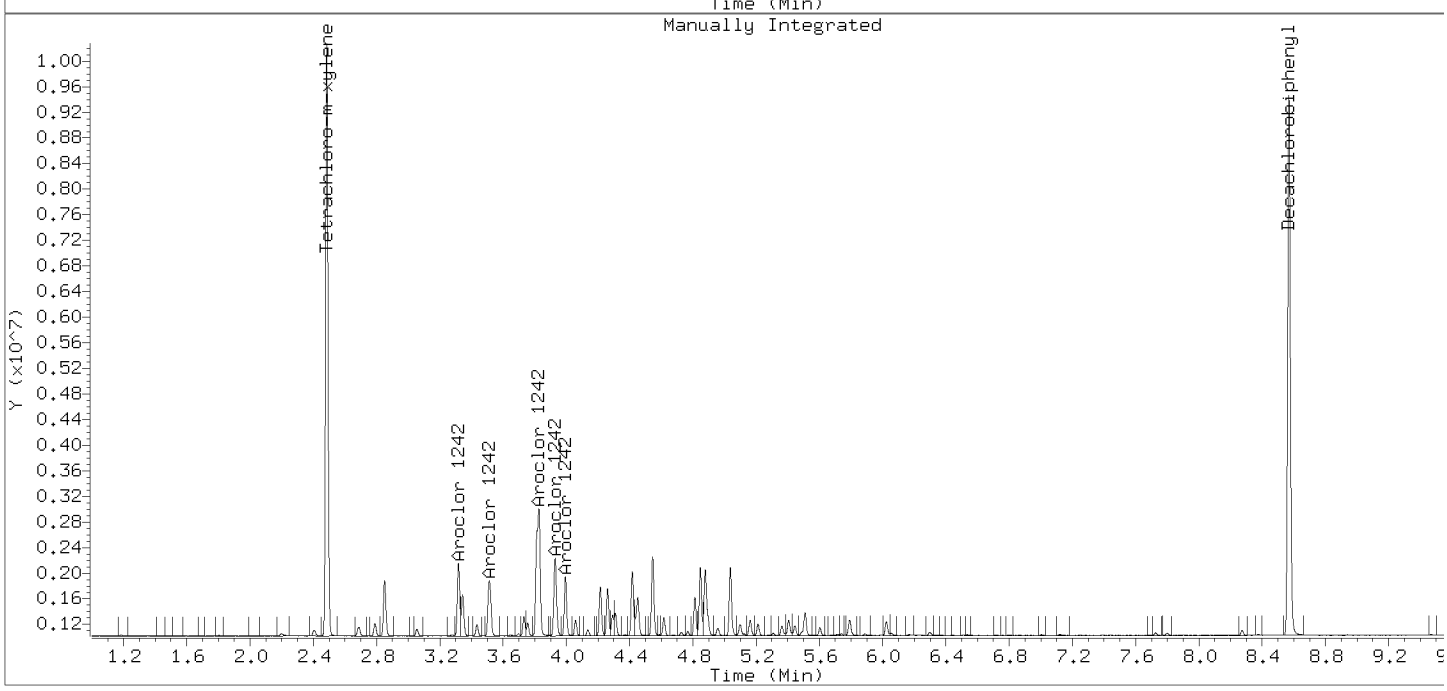
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318007.D
Date : 23-MAR-2018 14:13
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1662164,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 14:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662164





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1016	1211459	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1221	16788	0	
Aroclor 1232	941907	0	
Aroclor 1232	941907	0	
Aroclor 1232	941907	0	
Aroclor 1232	941907	0	

Aroclor 1232	941907	0	
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1242	1211459	1222540	BA
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1248	763968	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1254	270782	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9614397	9614397	
Decachlorobiphenyl	9967952	9967952	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662965

Date Analyzed: 03/27/2018 15:30

Lab File ID: 032718.B\032718010.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D
Lab Smp Id: 1662965 Client Smp ID: MB
Inj Date : 27-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662965,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	18755	14198	0.757	0.10		
1.537	11052	7162	0.648	0.06		
1.681	11102	8319	0.749	0.06		
2.199	40143	28158	0.701	0.22		
2.485	8703514	8397895	0.965	47.79	$ 2 Tetrachloro-m-xylene	
2.785	18647	16239	0.871	0.10		
2.861	19277	14268	0.740	0.10		
6.349	9927	6605	0.665	0.05		
7.122	25370	16954	0.668	0.13		
7.249	12227	10854	0.888	0.06		
7.691	12109	9692	0.800	0.06		
7.728	48508	41144	0.848	0.26		
7.801	49027	33809	0.690	0.26		
8.274	80519	67961	0.844	0.44		
8.379	19116	14234	0.745	0.10		
8.570	9085196	7938167	0.874	49.97	$ 12 Decachlorobiphenyl	
8.943	12701	10519	0.828	0.06		
9.466	17004	11535	0.678	0.09		
9.959	16424	13251	0.807	0.09		
	18210618	16660964		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D
Lab Smp Id: 1662965 Client Smp ID: MB
Inj Date : 27-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662965,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

1 Aroclor 1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	8703514	0.07059	35			

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3 Aroclor 1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

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4 Aroclor 1232 CAS #: 1114-16-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

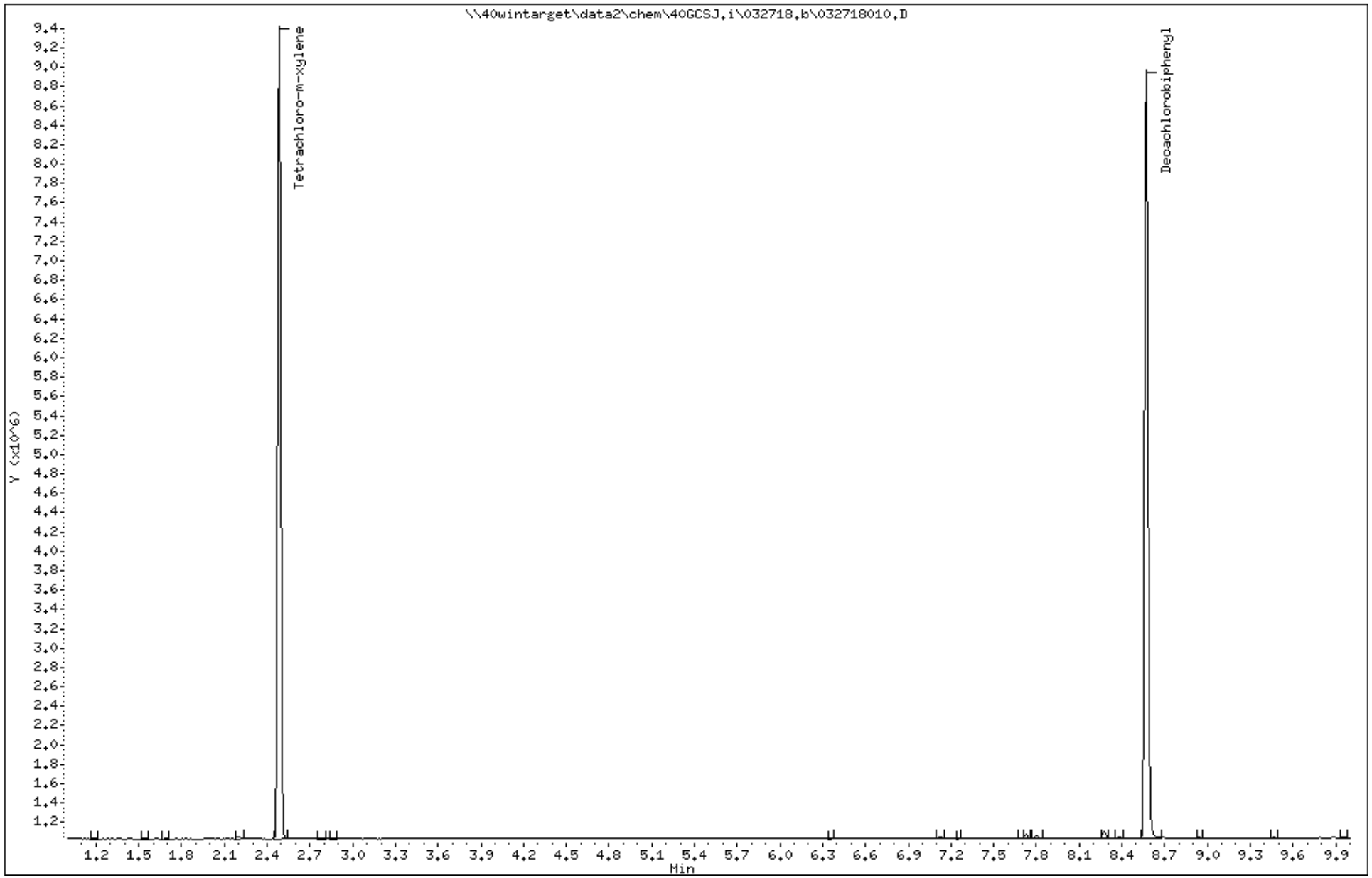
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9085196	0.08292	41			

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D
Date : 27-MAR-2018 15:30
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1662965,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 15:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662965

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	8703514	8703514	
Decachlorobiphenyl	9085196	9085196	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662966

Date Analyzed: 03/27/2018 15:46

Lab File ID: 032718.B\032718011.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	259	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718011.D
Lab Smp Id: 1662966 Client Smp ID: LCS
Inj Date : 27-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662966,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	17866	12084	0.676	0.03		
1.431	11779	9255	0.786	0.02		
1.537	10304	8434	0.819	0.02		
1.802	15786	13020	0.825	0.03		
2.013	15127	10651	0.704	0.03		
2.198	15515	15176	0.978	0.03		
2.405	124787	96192	0.771	0.25		
2.485	10365317	9877686	0.953	21.90	$ 2 Tetrachloro-m-xylene	
2.687	192298	156285	0.813	0.39		
2.790	232644	212902	0.915	0.48		
2.851	1026328	938709	0.915	2.13		
3.055	134200	118080	0.880	0.27		
3.279	24908	20780	0.834	0.05		
3.318	1311314	1212211	0.924	2.72	3 Aroclor 1242	BA
3.344	746854	694287	0.930	1.55		
3.435	213506	187723	0.879	0.44		
3.515	1298368	922167	0.710	2.69	3 Aroclor 1242	BA
3.697	36365	35413	0.974	0.07		
3.732	338080	331083	0.979	0.70		
3.756	216572	208632	0.963	0.45		
3.826	3692663	2161284	0.585	7.67	3 Aroclor 1242	BA
3.930	1590790	1322186	0.831	3.30	3 Aroclor 1242	BA
3.995	1049191	994305	0.948	2.18	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	290550	263193	0.906	0.60	
4.136	116869	105302	0.901	0.24	
4.215	879641	827344	0.941	1.82	
4.262	830723	788493	0.949	1.72	
4.293	330851	345867	1.045	0.68	
4.311	424558	383237	0.903	0.88	
4.371	24868	20550	0.826	0.05	
4.417	1178236	1076292	0.913	2.44	
4.452	853461	643258	0.754	1.77	
4.546	1454388	1331060	0.915	3.02	
4.617	338932	297502	0.878	0.70	
4.677	22672	19296	0.851	0.04	
4.727	69653	61302	0.880	0.14	
4.768	79673	74304	0.933	0.16	
4.813	660406	637793	0.966	1.37	
4.848	1167843	1087416	0.931	2.42	
4.878	1514379	1092439	0.721	3.14	
4.957	165418	129104	0.780	0.34	
5.037	1233635	1100103	0.892	2.56	
5.098	259011	195240	0.754	0.53	
5.163	298578	256287	0.858	0.62	
5.213	218526	187061	0.856	0.45	
5.283	18286	17345	0.949	0.03	
5.308	54099	42827	0.792	0.11	
5.362	189426	156825	0.828	0.39	
5.406	304585	266428	0.875	0.63	
5.445	197202	169482	0.859	0.40	
5.510	505580	378209	0.748	1.05	
5.604	156635	131132	0.837	0.32	
5.676	17107	14146	0.827	0.03	
5.716	30561	23375	0.765	0.06	
5.742	36610	35832	0.979	0.07	
5.794	337234	243883	0.723	0.70	
5.889	46740	30018	0.642	0.09	
6.024	256346	219680	0.857	0.53	
6.056	55130	42272	0.767	0.11	
6.170	25212	17891	0.710	0.05	
6.300	63829	53914	0.845	0.13	
6.333	16442	14020	0.853	0.03	
6.372	12975	11501	0.886	0.02	
6.537	14437	14837	1.028	0.03	
6.799	15491	12492	0.806	0.03	
7.005	18444	14331	0.777	0.03	
7.121	26010	17121	0.658	0.05	
7.250	16379	9773	0.597	0.03	
7.388	15837	9100	0.575	0.03	
7.692	14365	12065	0.840	0.02	
7.728	55367	45799	0.827	0.11	
7.799	47588	36284	0.762	0.09	
8.275	86449	77207	0.893	0.17	
8.380	18632	12626	0.678	0.03	
8.571	10326435	8669348	0.840	21.46	$ 12 Decachlorobiphenyl
9.467	21939	11687	0.533	0.04	
9.958	19752	11917	0.603	0.04	
	48114553	41304355		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718011.D
Lab Smp Id: 1662966 Client Smp ID: LCS
Inj Date : 27-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662966,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10365317	0.08407	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1311314	0.51765	260	0.00- 20.00	100.00(M)	BA
3.515	3.513	0.002	1298367	0.51522	260	0.00- 20.00	99.01	BA
3.826	3.827	-0.001	3692662	0.51889	260	0.00- 20.00	281.60	BA
3.929	3.929	0.000	1590790	0.52302	260	0.00- 20.00	121.31	BA
3.994	3.995	-0.001	1049191	0.51236	260	0.00- 20.00	80.01	BA
Average of Peak Concentrations =					260			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10326434	0.09425	47	

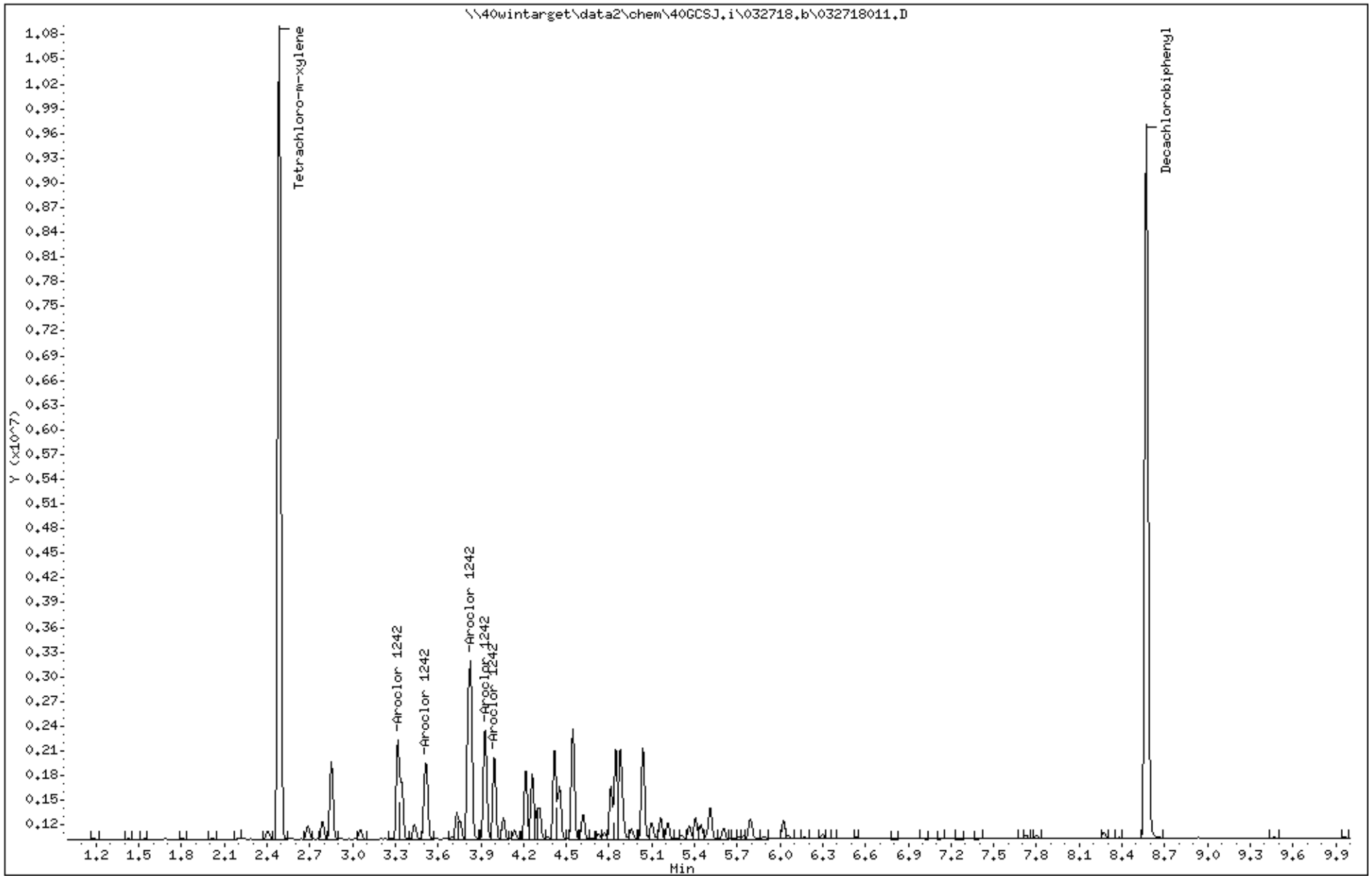
QC Flag Legend

M - Compound response manually integrated.

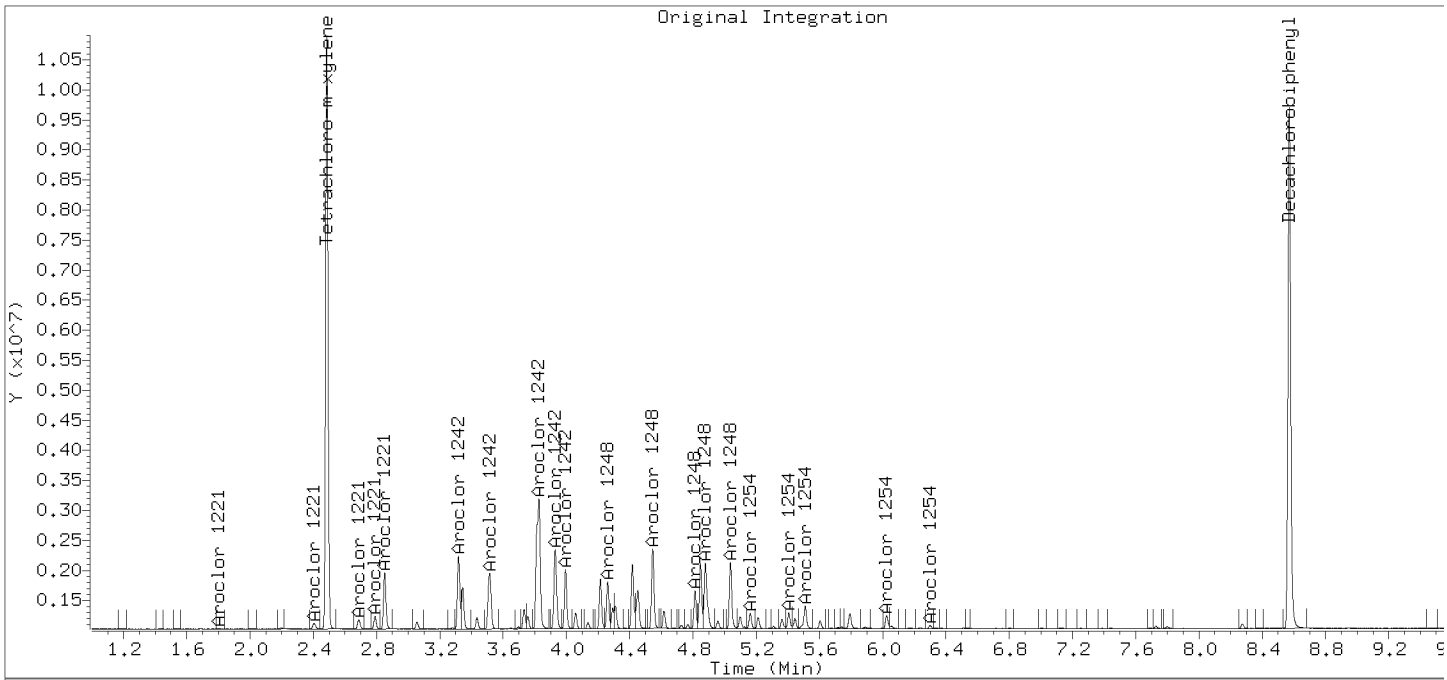
Review Codes Legend

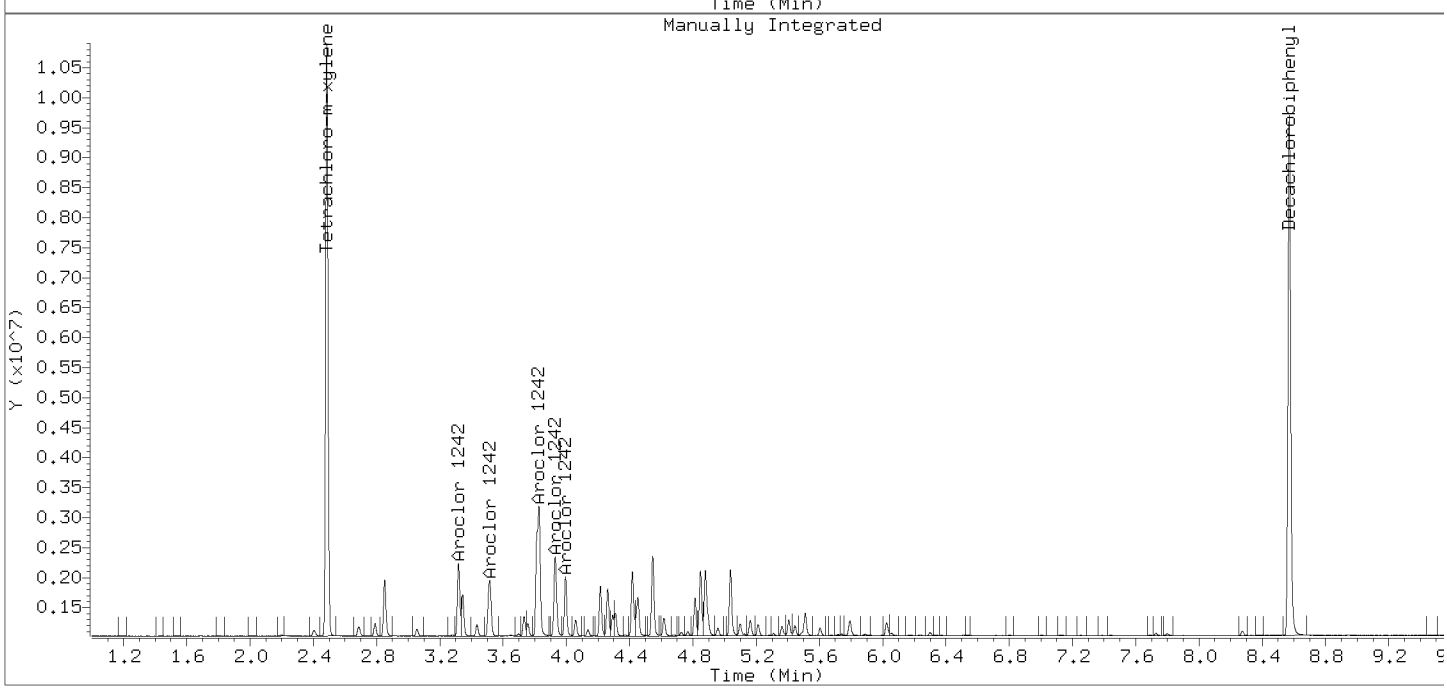
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718011.D
Date : 27-MAR-2018 15:46
Client ID: LCS
Instrument: 40GCSJ.i
Sample Info: 1662966,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 15:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662966





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	

Aroclor 1232	1010824	0	
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10365317	10365317	
Decachlorobiphenyl	10326434	10326434	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664793

Date Analyzed: 03/30/2018 17:22

Lab File ID: 033018.B\033018010.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Lab Smp Id: 1664793 Client Smp ID: MB
Inj Date : 30-MAR-2018 17:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664793,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	14570	13384	0.919	0.07		
1.539	10323	9103	0.882	0.05		
1.688	11405	8619	0.756	0.05		
2.199	61443	30725	0.500	0.31		
2.485	9345991	8986785	0.962	48.06	$ 2 Tetrachloro-m-xylene	
2.788	19349	15309	0.791	0.09		
7.125	21633	13203	0.610	0.11		
7.725	44824	39078	0.872	0.23		
7.800	29631	28981	0.978	0.15		
8.274	87961	73547	0.836	0.45		
8.378	20602	13224	0.642	0.10		
8.570	9756823	8203778	0.841	50.24	$ 12 Decachlorobiphenyl	
8.938	10515	8884	0.845	0.05		
9.958	9403	7914	0.842	0.04		
	19444473	17452534		100.000		

Total unknown % area = 1.7

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Lab Smp Id: 1664793 Client Smp ID: MB
Inj Date : 30-MAR-2018 17:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664793,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	9345991	0.07580	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

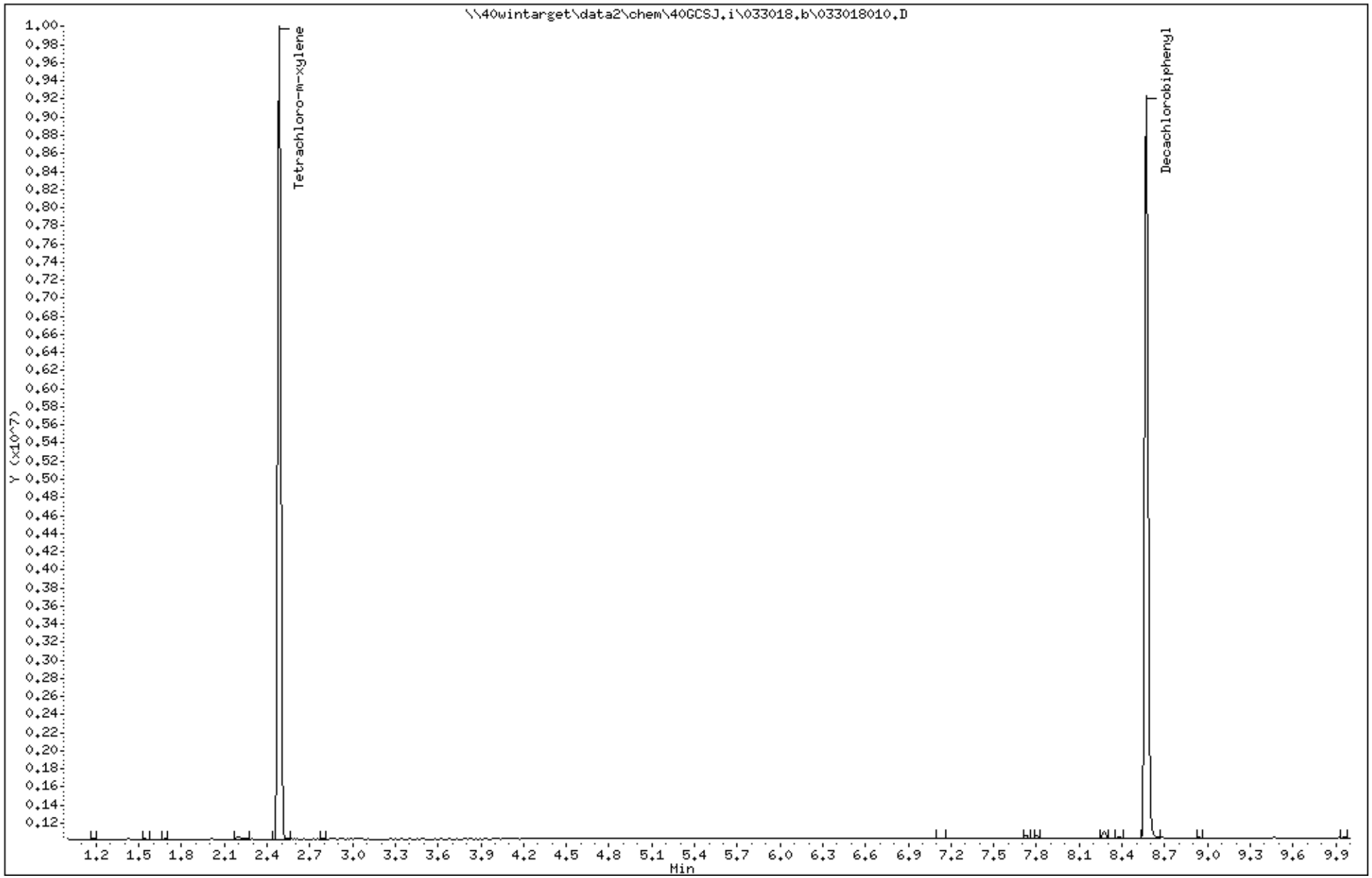
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9756823	0.08905		44		

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Date : 30-MAR-2018 17:22
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1664793,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664793

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9345991	9345991	
Decachlorobiphenyl	9756823	9756823	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664794

Date Analyzed: 03/30/2018 17:38

Lab File ID: 033018.B\033018011.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	236	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Lab Smp Id: 1664794 Client Smp ID: MBLCS
Inj Date : 30-MAR-2018 17:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664794,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	14371	12627	0.879	0.03		
1.423	10530	7685	0.730	0.02		
1.536	13414	7924	0.591	0.02		
1.686	11381	10053	0.883	0.02		
2.198	54145	32734	0.605	0.11		
2.405	112460	86945	0.773	0.24		
2.484	10031155	9542303	0.951	22.16	$ 2 Tetrachloro-m-xylene	
2.687	169882	137424	0.809	0.37		
2.789	206912	194056	0.938	0.45		
2.850	916005	843455	0.921	2.02		
3.054	109450	106780	0.976	0.24		
3.276	24277	17988	0.741	0.05		
3.318	1194942	1102529	0.923	2.63	3 Aroclor 1242	BA
3.344	673074	628279	0.933	1.48		
3.433	189004	166505	0.881	0.41		
3.513	1179824	838056	0.710	2.60	3 Aroclor 1242	BA
3.647	20606	14963	0.726	0.04		
3.696	33251	32704	0.984	0.07		
3.731	305888	299746	0.980	0.67		
3.756	201569	189205	0.939	0.44		
3.827	3390735	1931255	0.570	7.49	3 Aroclor 1242	BA
3.928	1455755	1202014	0.826	3.21	3 Aroclor 1242	BA
3.993	960656	896360	0.933	2.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.057	264291	236277	0.894	0.58	
4.136	107261	95815	0.893	0.23	
4.214	794554	739961	0.931	1.75	
4.260	755016	715461	0.948	1.66	
4.292	310234	311821	1.005	0.68	
4.309	379143	345005	0.910	0.83	
4.370	23790	19392	0.815	0.05	
4.417	1056407	979658	0.927	2.33	
4.451	808986	599820	0.741	1.78	
4.545	1342685	1194659	0.890	2.96	
4.617	306653	277666	0.905	0.67	
4.681	21743	18158	0.835	0.04	
4.727	68527	54682	0.798	0.15	
4.767	71956	65521	0.911	0.15	
4.812	606613	573568	0.946	1.34	
4.847	1080460	1003008	0.928	2.38	
4.878	1382549	1012969	0.733	3.05	
4.957	157241	119163	0.758	0.34	
5.037	1141778	1008137	0.883	2.52	
5.099	236608	175642	0.742	0.52	
5.162	271430	237736	0.876	0.59	
5.212	196259	173485	0.884	0.43	
5.284	17550	15371	0.876	0.03	
5.308	48879	38335	0.784	0.10	
5.362	170525	144062	0.845	0.37	
5.406	294036	234927	0.799	0.64	
5.446	178715	155302	0.869	0.39	
5.509	476178	345620	0.726	1.05	
5.605	140916	119367	0.847	0.31	
5.674	15337	14250	0.929	0.03	
5.716	27794	21374	0.769	0.06	
5.741	51456	31217	0.607	0.11	
5.792	299958	231188	0.771	0.66	
5.888	48680	27142	0.558	0.10	
6.023	280916	206418	0.735	0.62	
6.167	30563	17934	0.587	0.06	
6.299	63446	50975	0.803	0.14	8 Aroclor 1260
6.334	16217	13312	0.821	0.03	
6.511	9835	10746	1.093	0.02	
6.535	25592	16656	0.651	0.05	
6.805	14085	11480	0.815	0.03	
7.005	20456	15271	0.747	0.04	8 Aroclor 1260
7.124	18063	14848	0.822	0.03	
7.245	11908	10334	0.868	0.02	8 Aroclor 1260
7.444	13524	9088	0.672	0.02	8 Aroclor 1260
7.727	48321	42048	0.870	0.10	
7.801	31610	31396	0.993	0.06	
7.899	9566	7815	0.817	0.02	8 Aroclor 1260
8.275	89863	76286	0.849	0.19	
8.378	17149	13847	0.807	0.03	
8.570	10109187	8088140	0.800	22.73	$ 12 Decachlorobiphenyl
9.462	11459	9498	0.829	0.02	
9.956	11260	11145	0.990	0.02	
	45266512	38294586		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Lab Smp Id: 1664794 Client Smp ID: MBLCS
Inj Date : 30-MAR-2018 17:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664794,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10031154	0.08136	41			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1194941	0.47171	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1179824	0.46818	230	0.00- 20.00	98.73	BA
3.826	3.827	-0.001	3390734	0.47646	240	0.00- 20.00	283.76	BA
3.928	3.929	-0.001	1455755	0.47863	240	0.00- 20.00	121.83	BA
3.993	3.995	-0.002	960656	0.46913	230	0.00- 20.00	80.39	BA
Average of Peak Concentrations =					240			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test. BA

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10109187	0.09227		46		

QC Flag Legend

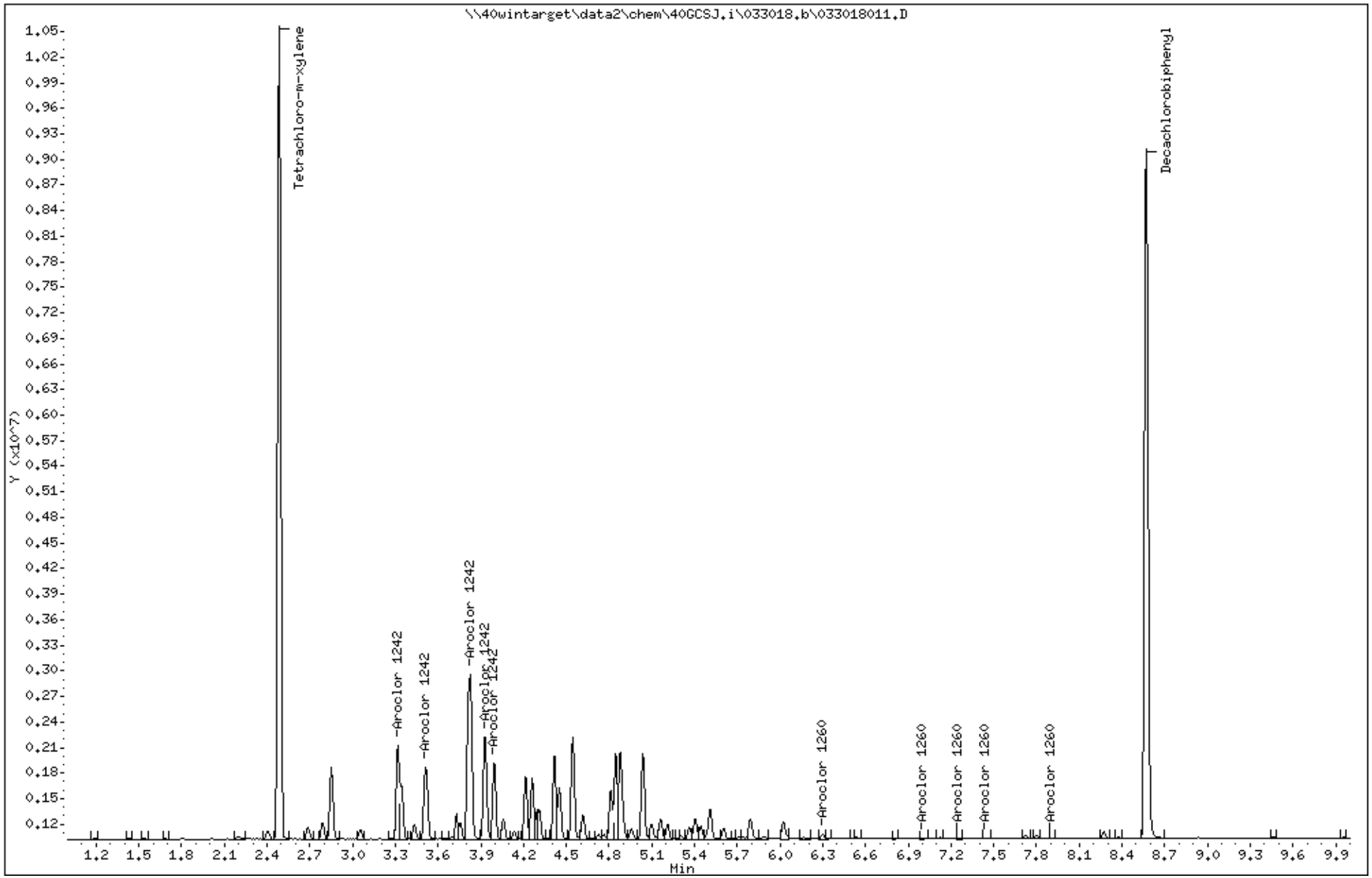
M - Compound response manually integrated.

Review Codes Legend

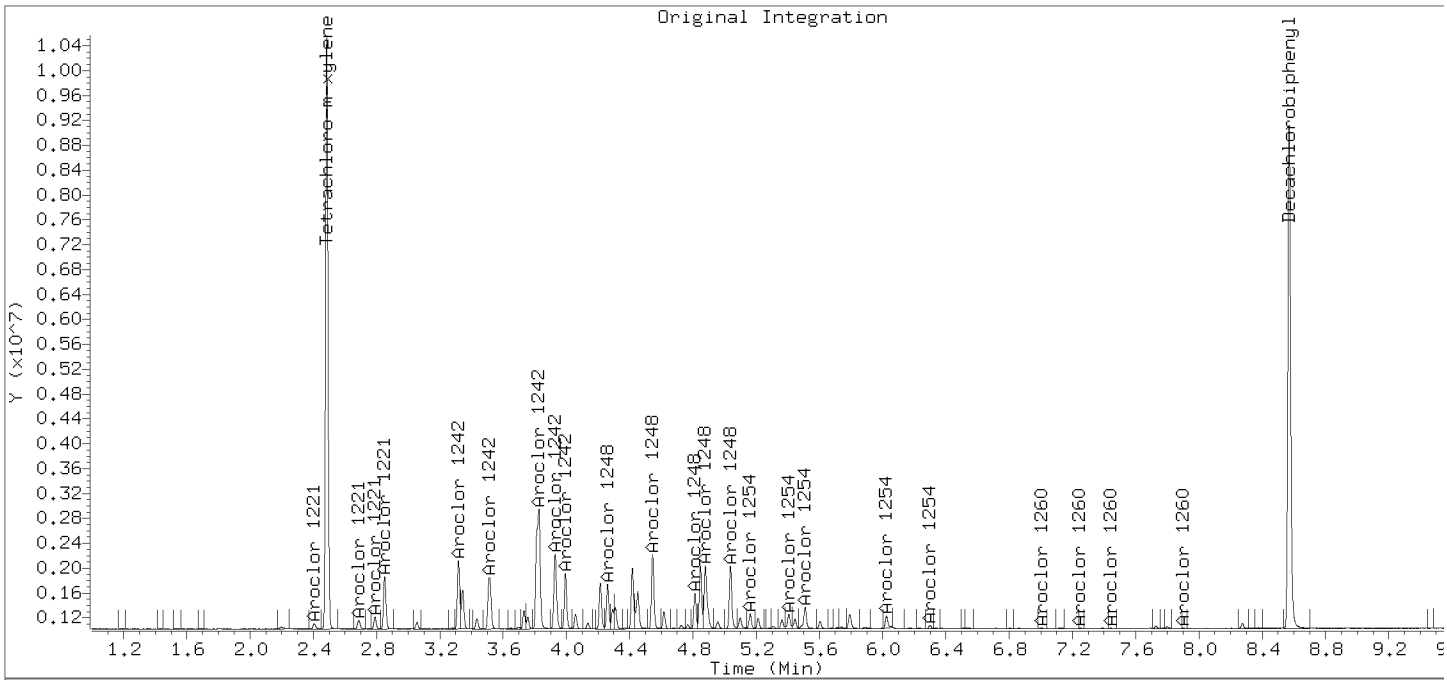
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

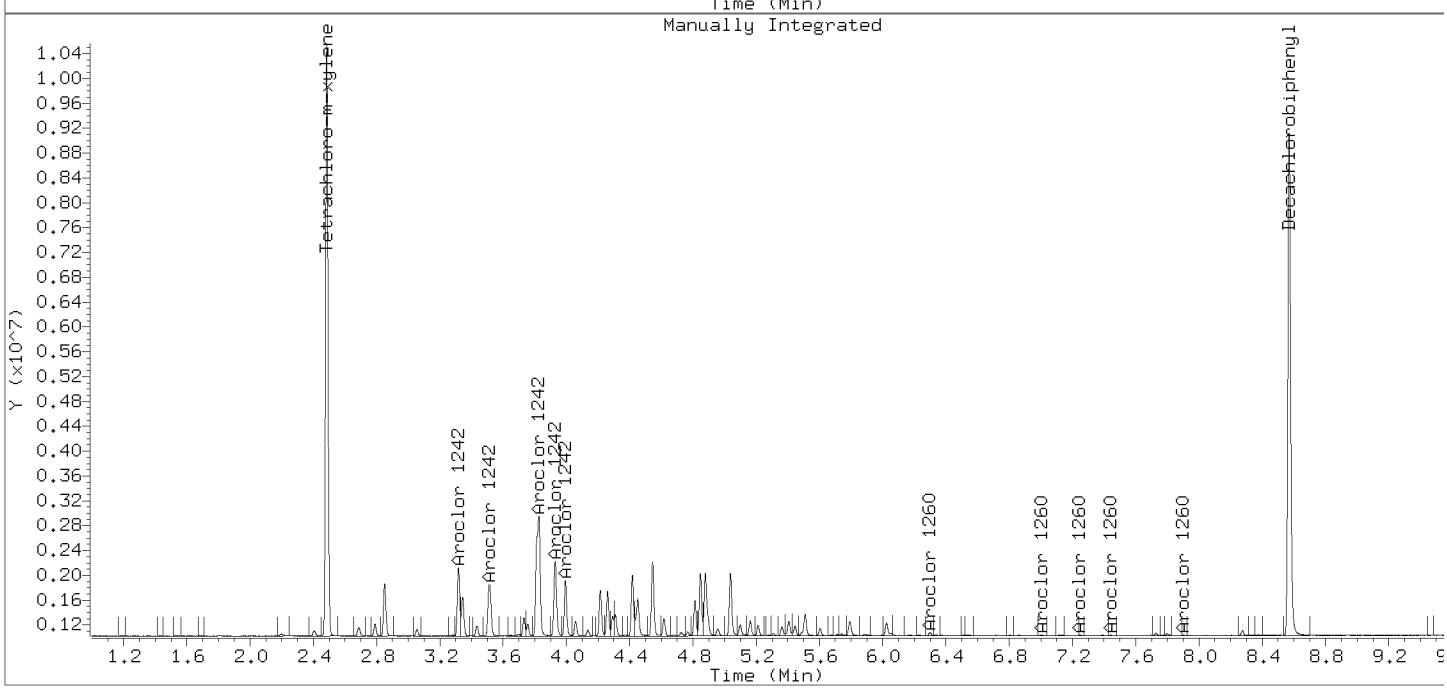
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Date : 30-MAR-2018 17:38
Client ID: MBLCS
Sample Info: 1664794,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664794





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	

Aroclor 1232	916004	0	
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Tetrachloro-m-xylene	10031154	10031154	
Decachlorobiphenyl	10109187	10109187	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666454

Date Analyzed: 04/02/2018 16:16

Lab File ID: 040218.B\040218008.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D
Lab Smp Id: 1666454 Client Smp ID: MB
Inj Date : 02-APR-2018 16:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666454,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	15310	13331	0.871	0.07		
1.434	11951	8959	0.750	0.05		
1.689	15927	13647	0.857	0.07		
2.198	52066	31112	0.598	0.25		
2.485	9319026	8770618	0.941	46.14	$ 2 Tetrachloro-m-xylene	
2.787	18507	14704	0.795	0.09		
2.858	10787	10022	0.929	0.05		
4.574	9520	3927	0.413	0.04		
7.119	31760	17355	0.546	0.15		
7.681	9865	6624	0.671	0.04		
7.729	58565	47722	0.815	0.29		
7.799	51427	38037	0.740	0.25		
8.274	93839	83960	0.895	0.46		
8.376	30174	18402	0.610	0.14		
8.571	10424009	8615870	0.827	51.73	$ 12 Decachlorobiphenyl	
8.940	13007	10518	0.809	0.06		
9.462	18123	11743	0.648	0.08		
9.960	9936	10420	1.049	0.04		
	20193798	17726971		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D
Lab Smp Id: 1666454 Client Smp ID: MB
Inj Date : 02-APR-2018 16:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666454,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	9319026	0.07558	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

5 Aroclor 1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

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6 Aroclor 1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

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7 Aroclor 1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

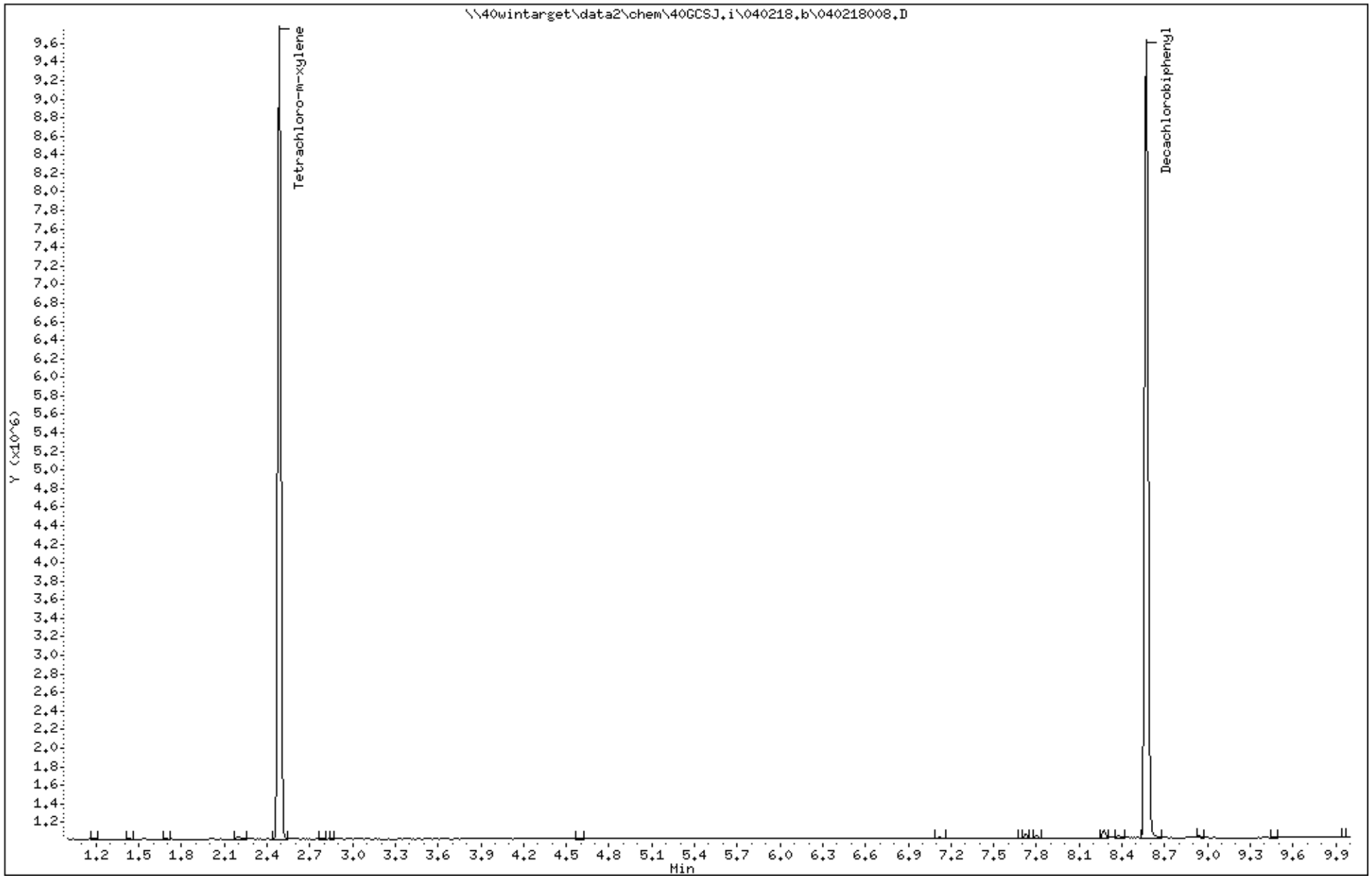
8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	10424008	0.09514		48		

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D
Date : 02-APR-2018 16:16
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1666454,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666454

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9319026	9319026	
Decachlorobiphenyl	10424008	10424008	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151614

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666455

Date Analyzed: 04/02/2018 16:32

Lab File ID: 040218.B\040218009.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	239	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218009.D
Lab Smp Id: 1666455 Client Smp ID: MBLCS
Inj Date : 02-APR-2018 16:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666455,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	11970	7896	0.660	0.02		
1.429	11672	9667	0.828	0.02		
1.539	9958	8718	0.875	0.02		
1.804	16664	12611	0.757	0.03		
2.199	35742	23475	0.657	0.07		
2.406	113350	86784	0.766	0.24		
2.486	10551345	9921646	0.940	22.55	$ 2 Tetrachloro-m-xylene	
2.689	175447	137054	0.781	0.37		
2.790	213232	192132	0.901	0.45		
2.852	936213	837530	0.895	2.00		
3.055	122302	109989	0.899	0.26		
3.277	21273	17937	0.843	0.04		
3.318	1208889	1118049	0.925	2.58	3 Aroclor 1242	BA
3.345	679265	621260	0.915	1.45		
3.436	192069	172828	0.900	0.41		
3.513	1185841	860229	0.725	2.53	3 Aroclor 1242	BA
3.650	21015	14426	0.686	0.04		
3.695	33144	32002	0.966	0.07		
3.733	306516	303000	0.989	0.65		
3.755	206067	194508	0.944	0.44		
3.827	3432045	1988224	0.579	7.33	3 Aroclor 1242	BA
3.930	1480101	1216567	0.822	3.16	3 Aroclor 1242	BA
3.995	967862	915833	0.946	2.06	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	265065	236443	0.892	0.56	
4.136	109975	96485	0.877	0.23	
4.215	807119	766155	0.949	1.72	
4.261	764739	728240	0.952	1.63	
4.293	306549	321266	1.048	0.65	
4.310	391123	349553	0.894	0.83	
4.369	26440	20062	0.759	0.05	
4.418	1065424	999519	0.938	2.27	
4.453	823645	595451	0.723	1.76	
4.546	1343601	1237030	0.921	2.87	
4.591	19802	21902	1.106	0.04	
4.618	310631	277625	0.894	0.66	
4.676	23423	17831	0.761	0.05	
4.727	67956	57059	0.840	0.14	
4.769	72026	66770	0.927	0.15	
4.813	615954	593595	0.964	1.31	
4.848	1105748	1010615	0.914	2.36	
4.879	1395389	1063835	0.762	2.98	
4.958	148617	118625	0.798	0.31	
5.037	1151352	1038534	0.902	2.46	
5.100	236764	184716	0.780	0.50	
5.162	274401	250674	0.914	0.58	
5.212	197060	174416	0.885	0.42	
5.283	15130	16326	1.079	0.03	
5.307	48658	39928	0.821	0.10	
5.362	176954	146828	0.830	0.37	
5.408	287889	244276	0.849	0.61	
5.446	180428	155304	0.861	0.38	
5.509	470978	355501	0.755	1.00	
5.605	138437	122035	0.882	0.29	
5.674	13613	12172	0.894	0.02	
5.717	27335	22072	0.807	0.05	
5.741	36706	31753	0.865	0.07	
5.792	318771	241925	0.759	0.68	
5.890	48677	27974	0.575	0.10	
6.025	292551	209438	0.716	0.62	
6.087	80898	58438	0.722	0.17	
6.168	23390	18055	0.772	0.05	
6.299	62313	54407	0.873	0.13	
6.508	10112	10288	1.017	0.02	
6.538	28447	19449	0.684	0.06	
6.717	12300	11296	0.918	0.02	
6.801	13957	13045	0.935	0.02	
7.008	25742	17561	0.682	0.05	
7.121	25230	16505	0.654	0.05	
7.253	11542	7362	0.638	0.02	
7.690	11768	13012	1.106	0.02	
7.728	59891	51749	0.864	0.12	
7.800	43066	39933	0.927	0.09	
8.275	96826	87861	0.907	0.20	
8.376	18748	16082	0.858	0.04	
8.571	10669573	9236557	0.866	23.16	$ 12 Decachlorobiphenyl
9.274	9763	6428	0.658	0.02	
9.470	26561	17280	0.651	0.05	
9.963	33905	20208	0.596	0.07	
	46774943	40369814		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218009.D
Lab Smp Id: 1666455 Client Smp ID: MBLCS
Inj Date : 02-APR-2018 16:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666455,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndV

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10551344	0.08558	43			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1208888	0.47722	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1185841	0.47057	240	0.00- 20.00	98.09	BA
3.826	3.827	-0.001	3432045	0.48227	240	0.00- 20.00	283.90	BA
3.929	3.929	0.000	1480100	0.48663	240	0.00- 20.00	122.43	BA
3.994	3.995	-0.001	967862	0.47265	240	0.00- 20.00	80.06	BA
Average of Peak Concentrations =					240			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	10669573	0.09739	49	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218009.D

Date : 02-APR-2018 16:32

Client ID: MBLCS

Instrument: 40GCSJ.i

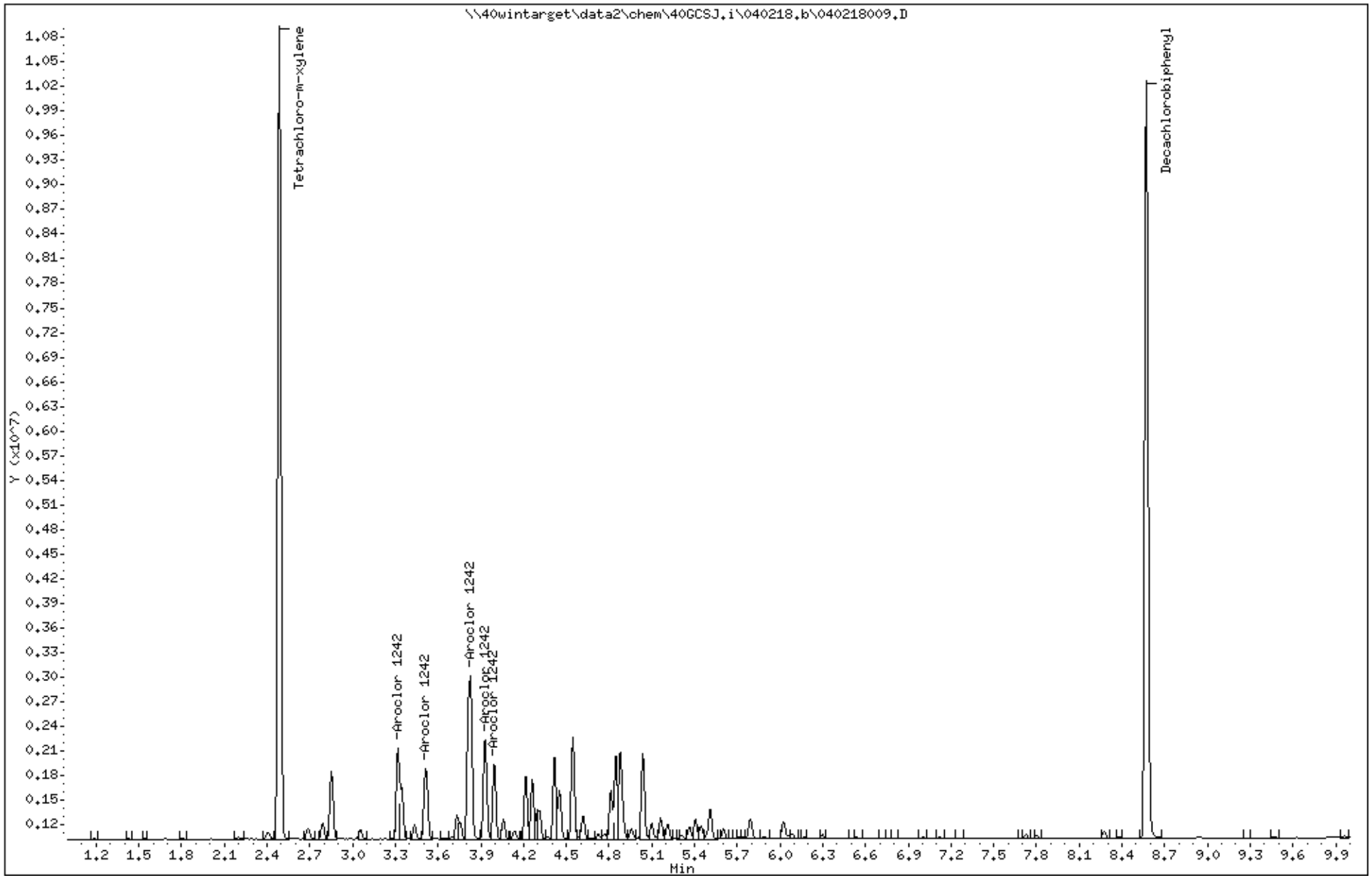
Sample Info: 1666455,

Volume Injected (uL): 1.0

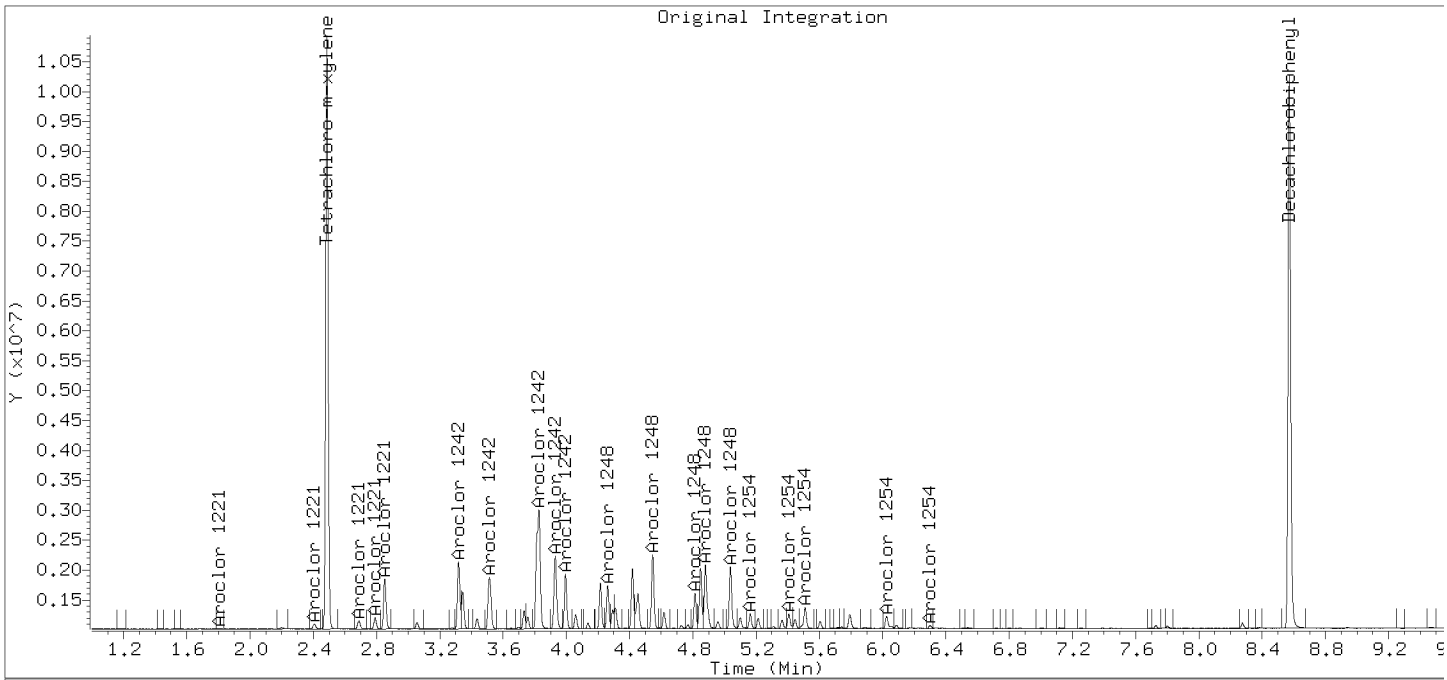
Operator: BLM

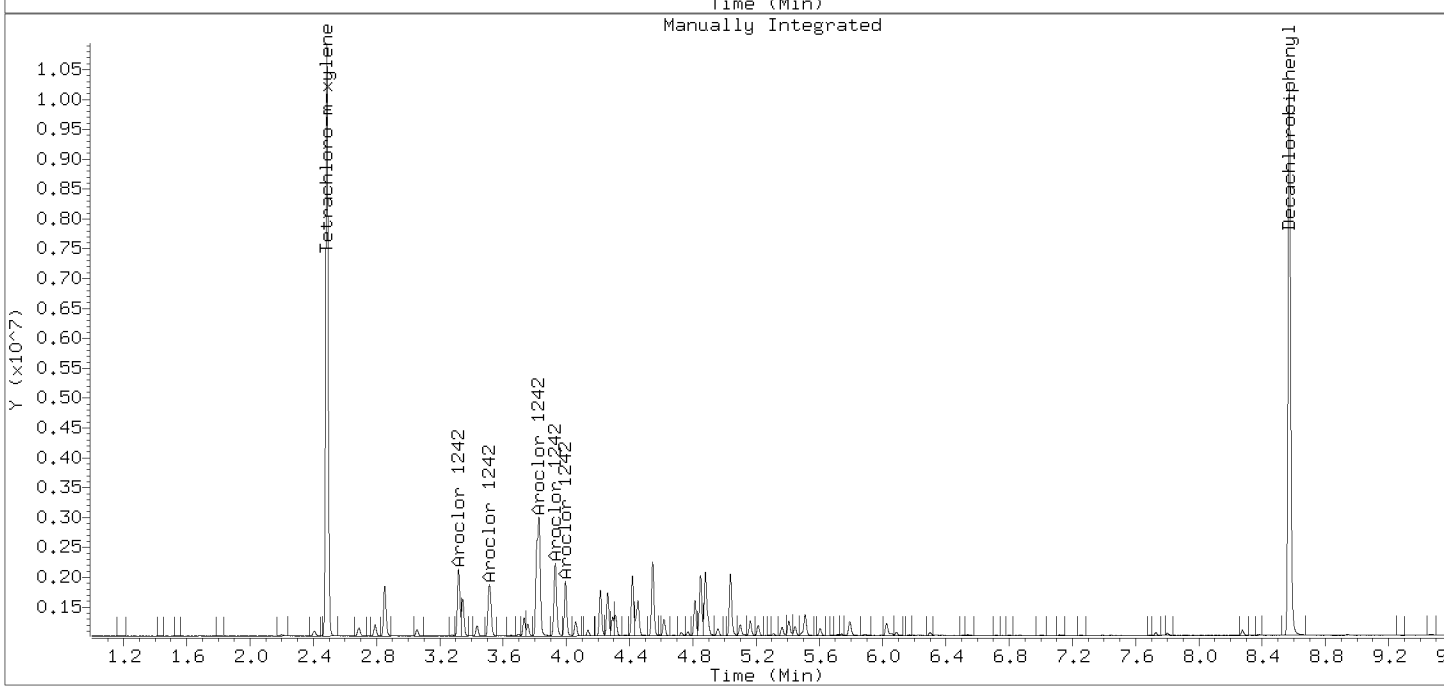
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666455





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	

Aroclor 1232	927588	0	
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10551344	10551344	
Decachlorobiphenyl	10669573	10669573	

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Prep Log Report

Batch Information: OEXT 283459 PCB-B

Template Version: F-GB-O-113-Rev.04 (14Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/16/2018 07:30:28:431
Spiked By	AMC	Spiked By Date/Time	03/16/2018 07:30:29:480	Witnessed By	ETB	Witnessed By Date/Time	03/16/2018 07:30:29:480
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191350	Hexane	188917	Sodium Sulfate	188340	Florisil	186910
3620B Date/Initials	03/20/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/20/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/03/2018 07:36	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1659955**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1659956**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151614007**	9.9789	5	3		189973 (.25)	
8082A TNYP	PS	**40151614008**	9.9668	5	3		189973 (.25)	
8082A TNYP	PS	**40151705001**	10.0179	5	3		189973 (.25)	
8082A TNYP	PS	**40151705002**	9.9736	5	3		189973 (.25)	
8082A TNYP	PS	**40151705003**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40151705004**	10.0227	5	3		189973 (.25)	
8082A TNYP	PS	**40151705005**	10.0013	5	3		189973 (.25)	
8082A TNYP	PS	**40151705006**	9.9835	5	3		189973 (.25)	
8082A TNYP	PS	**40151705007**	10.0108	5	3		189973 (.25)	
8082A TNYP	PS	**40151705008**	9.9731	5	3		189973 (.25)	
8082A TNYP	PS	**40151705009**	10.0354	5	3		189973 (.25)	
8082A TNYP	PS	**40151705010**	10.022	5	3		189973 (.25)	
8082A TNYP	PS	**40151705011**	10.0245	5	3		189973 (.25)	
8082A TNYP	PS	**40151705012**	9.973	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151705013**	10.0077	5	3		189973 (.25)	
8082A TNYP	PS	**40151705014**	10.0189	5	3		189973 (.25)	
8082A TNYP	PS	**40151705015**	10.0181	5	3		189973 (.25)	
8082A TNYP	PS	**40151705016**	10.0368	5	3		189973 (.25)	
8082A TNYP	RQS	**40151705017**	10.0037	5	3		189973 (.25)	
8082A TNYP	MS	**1659957**	9.9949	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1659958**	10.0385	5	3		189973 (.25)	
8082A TNYP	PS	**40151705018**	9.9851	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 283977 PCB-B

Template Version: F-GB-O-113-Rev.04 (14Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/22/2018 07:22:46:430
Spiked By	AMC	Spiked By Date/Time	03/22/2018 07:22:48:165	Witnessed By	ETB	Witnessed By Date/Time	03/22/2018 07:22:48:165
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191930	Hexane	188917	Sodium Sulfate	190952	Florisil	186910
3620B Date/Initials	03/23/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/23/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 08:42	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1662163**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1662164**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151552011**	9.9626	5	3		189973 (.25)	
8082A TNYP	PS	**40151597001**	9.9992	5	3		189973 (.25)	
8082A TNYP	PS	**40151605001**	10.0092	5	3		189973 (.25)	
8082A TNYP	PS	**40151605002**	9.9923	5	3		189973 (.25)	
8082A TNYP	PS	**40151614001**	10.0203	5	3		189973 (.25)	
8082A TNYP	PS	**40151616001**	9.9967	5	3		189973 (.25)	
8082A TNYP	PS	**40151619001**	9.9791	5	3		189973 (.25)	
8082A TNYP	RQS	**40151619002**	10.0233	5	3		189973 (.25)	
8082A TNYP	MS	**1662165**	9.9608	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1662166**	9.9773	5	3		189973 (.25)	
8082A TNYP	PS	**40151619003**	10.0185	5	3		189973 (.25)	
8082A TNYP	PS	**40151619004**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151800001**	10.0159	5	3		189973 (.25)	
8082A TNYP	PS	**40151800002**	9.968	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151800003**	9.9637	5	3		189973 (.25)	
8082A TNYP	PS	**40151800004**	10.0193	5	3		189973 (.25)	
8082A TNYP	PS	**40151804001**	9.9711	5	3		189973 (.25)	
8082A TNYP	PS	**40151804002**	9.9758	5	3		189973 (.25)	
8082A TNYP	PS	**40151804003**	9.9638	5	3		189973 (.25)	
8082A TNYP	PS	**40151804009**	10.0066	5	3		189973 (.25)	
8082A TNYP	PS	**40151804010**	10.0363	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284104 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/23/2018 07:10:18:493
Spiked By	AMC	Spiked By Date/Time	03/23/2018 07:10:19:533	Witnessed By	ETB	Witnessed By Date/Time	03/23/2018 07:10:19:533
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192185	Hexane	188917	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	3/27/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/27/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/04/2018 12:51	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1662965**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1662966**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151613012**	9.978	5	3		189973 (.25)	
8082A TNYP	DUP	**1662967**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151613013**	9.974	5	3		189973 (.25)	
8082A TNYP	PS	**40151614006**	9.9847	5	3		189973 (.25)	
8082A TNYP	PS	**40151614009**	10.0068	5	3		189973 (.25)	
8082A TNYP	PS	**40151614010**	9.9903	5	3		189973 (.25)	
8082A TNYP	PS	**40151616002**	10.0303	5	3		189973 (.25)	
8082A TNYP	PS	**40151616003**	9.964	5	3		189973 (.25)	
8082A TNYP	PS	**40151616004**	9.9633	5	3		189973 (.25)	
8082A TNYP	PS	**40151616005**	9.9603	5	3		189973 (.25)	
8082A TNYP	PS	**40151616006**	10.0159	5	3		189973 (.25)	
8082A TNYP	PS	**40151616007**	9.9618	5	3		189973 (.25)	
8082A TNYP	PS	**40151616008**	10.0254	5	3		189973 (.25)	
8082A TNYP	PS	**40151616009**	9.9761	5	3		189973 (.25)	

Prep Log Report

40151614

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	RQS	**40151616010**	9.9941	5	3		189973 (.25)	
8082A TNYP	MS	**1662968**	9.965	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1662969**	9.9982	5	3		189973 (.25)	
8082A TNYP	PS	**40151802006**	9.9966	5	3		189973 (.25)	
8082A TNYP	PS	**40151805002**	9.9823	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284454 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/28/2018 08:09:30:539
Spiked By	AMC	Spiked By Date/Time	03/28/2018 08:09:31:564	Witnessed By	ETB	Witnessed By Date/Time	03/28/2018 08:09:35:108
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	188917	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	03/29/18 ETB	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/29/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 08:50	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1664793**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1664794**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151549001**	10.0051	5	3		189973 (.25)	
8082A TNYP	PS	**40151601001**	10.0134	5	3		189973 (.25)	
8082A TNYP	PS	**40151613001**	9.9785	5	3		189973 (.25)	
8082A TNYP	MS	**1664795**	9.9787	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1664796**	9.9864	5	3		189973 (.25)	
8082A TNYP	PS	**40151613002**	9.9976	5	3		189973 (.25)	
8082A TNYP	PS	**40151614002**	10.0031	5	3		189973 (.25)	
8082A TNYP	PS	**40151614003**	9.9906	5	3		189973 (.25)	
8082A TNYP	PS	**40151614004**	9.986	5	3		189973 (.25)	
8082A TNYP	PS	**40151613014**	10	5	3		189973 (.25)	
8082A TNYP	PS	**40151800005**	10.0085	5	3		189973 (.25)	
8082A TNYP	PS	**40151802001**	9.9815	5	3		189973 (.25)	
8082A TNYP	PS	**40151802002**	9.994	5	2.5	1*	189973 (.25)	
8082A TNYP	PS	**40151802003**	9.9604	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151802004**	10.0221	5	3		189973 (.25)	
8082A TNYP	PS	**40151802005**	9.9766	5	3		189973 (.25)	
8082A TNYP	PS	**40151805001**	10.0137	5	3		189973 (.25)	
8082A TNYP	PS	**40157825001**	9.9773	5	3		189973 (.25)	
8082A TNYP	DUP	**1664809**	10.019	5	3		189973 (.25)	

Sample Notes:

1*: An extra half a mL was added to the lipids tin so the delivered volumes is 0.5mL lower than usual. AMC 4/6/18

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284719 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/30/2018 07:22:14:067
Spiked By	AMC	Spiked By Date/Time	03/30/2018 07:22:14:866	Witnessed By	ETB	Witnessed By Date/Time	03/30/2018 07:22:15:682
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	192551	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	04/02/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	04/02/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/10/2018 09:32	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1666454**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1666455**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40151614005**	10.0269	5	3		189973 (.25)	
8082A TNYP	PS	**40157487011**	10.0051	5	3		189973 (.25)	
8082A TNYP	PS	**40157487012**	9.9785	5	3		189973 (.25)	
8082A TNYP	PS	**40157487013**	10.0107	5	3		189973 (.25)	
8082A TNYP	PS	**40157487014**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40157487015**	9.9649	5	3		189973 (.25)	
8082A TNYP	PS	**40157487016**	10.0255	5	3		189973 (.25)	
8082A TNYP	RQS	**40157487017**	10.0169	5	3		189973 (.25)	
8082A TNYP	MS	**1666456**	9.9998	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1666457**	9.9976	5	3		189973 (.25)	
8082A TNYP	PS	**40157487018**	9.9778	5	3		189973 (.25)	
8082A TNYP	PS	**40157487019**	10.0222	5	3		189973 (.25)	
8082A TNYP	PS	**40157487020**	10.0168	5	3		189973 (.25)	
8082A TNYP	PS	**40157488007**	10.0031	5	3		189973 (.25)	

Prep Log Report

40151614

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157488008**	10.0372	5	3		189973 (.25)	
8082A TNYP	PS	**40157488009**	10.034	5	3		189973 (.25)	
8082A TNYP	PS	**40157488010**	9.9936	5	3		189973 (.25)	
8082A TNYP	PS	**40157489008**	10.0179	5	3		189973 (.25)	
8082A TNYP	PS	**40157489009**	9.98	5	3		189973 (.25)	
8082A TNYP	PS	**40157489010**	10.039	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

```
      Sequence Name: C:\msdchem\1\sequence\032018.s
            Comment:
           Operator:
          Data Path: C:\MSDCHEM\1\DATA\032018\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

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    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------------
  Line                     Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile           --------
     Method             SCREEN2014
 2) Sample          2  HEXANE
     Datafile           --------
     Method             SCREEN2014
 3) RearSamp        3  1660731MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1660732LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1660733LCSD
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40165960-001
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40165960-002
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40165960-003
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40165918-001
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  HEXANE
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  1659955MB
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  1659956LCS
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  1659957MS —
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40151614-007 —
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40151614-008 —
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40151705-001 —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40151705-002 —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40151705-003 —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40151705-004 —
     Datafile           --------

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```

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Signed 3/26/18 Date Signed 3/26/18 Date

```
      Method                SCREEN2014
20) Sample          20      40151705-005
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21      40151705-006
      Datafile              --------
      Method                SCREEN2014
22) Sample          22      40151705-007
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23      40151705-008
      Datafile              --------
      Method                SCREEN2014
24) Sample          24      40151705-009
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25      40151705-010
      Datafile              --------
      Method                SCREEN2014
26) Sample          26      40151705-011
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27      40151705-012
      Datafile              --------
      Method                SCREEN2014
28) Sample          28      40151705-013
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29      40151705-014
      Datafile              --------
      Method                SCREEN2014
30) Sample          30      40151705-015
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31      40151705-016
      Datafile              --------
      Method                SCREEN2014
32) Sample          32      40151705-017
      Datafile              --------
      Method                SCREEN2014
33) RearSamp        33      1659958DUP
      Datafile              --------
      Method                SCREEN2014
34) Sample          34      40151705-018
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

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Sequence Name: C:\msdchem\1\sequence\032318.s
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      Operator:
     Data Path: C:\MSDCHEM\1\DATA\032318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

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    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
---------------------------------------------------------------------------
  Line                   Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile           --------
     Method             SCREEN2014
 2) Sample          2  HEXANE
     Datafile           --------
     Method             SCREEN2014
 3) RearSamp        3  1662163MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1662164LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1662165MS —
     Datafile           --------
     Method             SCREEN2014   BLM 3/23/18
 6) Sample          6  40151552-011 ~~x3~~ x4
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40151597-001 —
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40151605-001 —
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40151605-002 x2
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40151614-001 —
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40151616-001 —
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40151619-001 —
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40151619-002P —
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  1662166DUP —
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40151619-003 —
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40151619-004 —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40151800-001 —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40151800-002 —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40151800-003 x2
     Datafile           --------

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```
      Method              SCREEN2014
20) Sample          20    40151800-004 —
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21    40151804-001 x3
      Datafile            --------
      Method              SCREEN2014
22) Sample          22    40151804-002 ~~x2~~ — BLM 3/23/18
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23    40151804-003 x2
      Datafile            --------
      Method              SCREEN2014
24) Sample          24    40151804-009 x3
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25    40151804-010 x5
      Datafile            --------
      Method              SCREEN2014
26) Sample          26    HEXANE
      Datafile            --------
      Method              SCREEN2014
```

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Signed 3/26/18 Date Signed 3/26/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032718.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\032718\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1662965MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1662966LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1662968MS x 2
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151613-012 —
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  1662967DUP —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151613-013 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151614-006 x 3
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151614-009 x 2
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151614-010 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151616-002 x 10
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151616-003 x 3
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151616-004 x 5
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151616-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151616-006 x 10
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151616-007 x 5
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151616-008 x 2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151616-009 x 5
     Datafile          --------

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Signed 4/3/18 Date

Signed 4-3-18 Date

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	Method		SCREEN2014
20)	Sample	20	40151616-010 ×4 ×2
	Datafile		--------
	Method		SCREEN2014
21)	RearSamp	21	1662969DUP × 2
	Datafile		--------
	Method		SCREEN2014
22)	Sample	22	40151802-006 —
	Datafile		--------
	Method		SCREEN2014
23)	RearSamp	23	40151805-002 —
	Datafile		--------
	Method		SCREEN2014
24)	Sample	24	HEXANE
	Datafile		--------
	Method		SCREEN2014

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Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: Dawn Haag Date: 4-3-18

```
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         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                     Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1664793MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1664794LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1664795MS —
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151549-001 x3
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40151601-001 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151613-001 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  1664796DUP —
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151613-002 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151614-002 x2
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151614-003 x3
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151614-004 —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151613-014 —
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151800-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151802-001 —
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151802-002 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151802-003 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151802-004 —
     Datafile          --------

   Last Modified: Fri Mar 30 07:49:18 2018                Page:  1
```

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Signed 4/3/18 Date Signed 4-3-18 Date

```
      Method              SCREEN2014
20) Sample          20  40151802-005
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21  40151805-001
      Datafile            --------
      Method              SCREEN2014
22) Sample          22  40157825-001
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23  1664809DUP
      Datafile            --------
      Method              SCREEN2014
24) Sample          24  HEXANE
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25  40166572-014
      Datafile            --------
      Method              SCREEN2014
26) Sample          26  40166575-010
      Datafile            --------
      Method              SCREEN2014
27) RearSamp        27  40166548-002 X1000
      Datafile            --------
      Method              SCREEN2014
28) Sample          28  1666113MS
      Datafile            --------
      Method              SCREEN2014
29) RearSamp        29  1666114DUP
      Datafile            --------
      Method              SCREEN2014
30) Sample          30  40166571-015
      Datafile            --------
      Method              SCREEN2014
31) RearSamp        31  40166568-002
      Datafile            --------
      Method              SCREEN2014
32) Sample          32  40166568-004
      Datafile            --------
      Method              SCREEN2014
33) RearSamp        33  40166568-005
      Datafile            --------
      Method              SCREEN2014
34) Sample          34  40166568-006
      Datafile            --------
      Method              SCREEN2014
35) RearSamp        35  40166568-007
      Datafile            --------
      Method              SCREEN2014
36) Sample          36  40166568-008
      Datafile            --------
      Method              SCREEN2014
37) RearSamp        37  40166568-009
      Datafile            --------
      Method              SCREEN2014
38) Sample          38  40166568-010
      Datafile            --------
      Method              SCREEN2014
39) RearSamp        39  40166568-011
      Datafile            --------
      Method              SCREEN2014
40) Sample          40  40166568-012
      Datafile            --------
      Method              SCREEN2014
41) RearSamp        41  40166568-013
      Datafile            --------
      Method              SCREEN2014
42) Sample          42  40166568-014
      Datafile            --------
      Method              SCREEN2014
43) RearSamp        43  40166568-016
      Datafile            --------
```

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Read and Understood By

Bryan Mayl — Signed — 4/3/18 Date

Dawn Nagy — Signed — 4-3-18 Date

Sequence Name: C:\msdchem\1\sequence\033018.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40166568-017		
	Datafile		--------		
	Method			SCREEN2014	
45)	RearSamp	45	40166568-018		
	Datafile		--------		
	Method			SCREEN2014	
46)	Sample	46	40166568-019		
	Datafile		--------		
	Method			SCREEN2014	
47)	RearSamp	47	40166568-020		
	Datafile		--------		
	Method			SCREEN2014	
48)	Sample	48	HEXANE		
	Datafile		--------		
	Method			SCREEN2014	
49)	RearSamp	49	40166548-002 X100		
	Datafile		--------		
	Method			SCREEN2014	
50)	Sample	50	1665641MB		
	Datafile		--------		
	Method			SCREEN2014	
51)	RearSamp	51	1665642LCS		
	Datafile		--------		
	Method			SCREEN2014	
52)	Sample	52	1665643MS × 2		
	Datafile		--------		
	Method			SCREEN2014	
53)	RearSamp	53	40157488-001 —		
	Datafile		--------		
	Method			SCREEN2014	
54)	Sample	54	40157488-002 × 2		
	Datafile		--------		
	Method			SCREEN2014	
55)	RearSamp	55	40157488-003 —		
	Datafile		--------		
	Method			SCREEN2014	
56)	Sample	56	40157488-004 × 3		
	Datafile		--------		
	Method			SCREEN2014	
57)	RearSamp	57	40157488-005P —		
	Datafile		--------		
	Method			SCREEN2014	
58)	Sample	58	1665644DUP —		
	Datafile		--------		
	Method			SCREEN2014	
59)	RearSamp	59	40157489-001 —		
	Datafile		--------		
	Method			SCREEN2014	
60)	Sample	60	40157489-002 —		
	Datafile		--------		
	Method			SCREEN2014	
61)	RearSamp	61	40157489-003 —		
	Datafile		--------		
	Method			SCREEN2014	
62)	Sample	62	40157489-004 —		
	Datafile		--------		
	Method			SCREEN2014	
63)	RearSamp	63	40157489-005 ×2		
	Datafile		--------		
	Method			SCREEN2014	
64)	Sample	64	40157825-002 —		
	Datafile		--------		
	Method			SCREEN2014	
65)	RearSamp	65	40157825-003 —		
	Datafile		--------		
	Method			SCREEN2014	
66)	Sample	66	40157825-004 —		
	Datafile		--------		

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Signed 4/3/18 Date

Signed 4-3-18 Date

```
      Method                SCREEN2014
67) RearSamp        67  40157825-005 —
      Datafile            --------
      Method                SCREEN2014
68) Sample          68  40157825-006 —
      Datafile            --------
      Method                SCREEN2014
69) RearSamp        69  1665645DUP —
      Datafile            --------
      Method                SCREEN2014
70) Sample          70  40157825-007 ×2
      Datafile            --------
      Method                SCREEN2014
71) RearSamp        71  40157825-008 ×3
      Datafile            --------
      Method                SCREEN2014
72) Sample          72  40157825-009 ×5
      Datafile            --------
      Method                SCREEN2014
73) RearSamp        73  40157825-010 —
      Datafile            --------
      Method                SCREEN2014
74) Sample          74  HEXANE
      Datafile            --------
      Method                SCREEN2014
```

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Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

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         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\040218\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                     Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  40166630-024 X100
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  40166659-001 X100
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40166659-009 X100
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  HEXANE
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40166548-010 OG
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40166548-013 OG
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40166548-010 CU
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40166548-013 CU
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40166548-010 CU
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40166548-013 CU
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  1666454MB
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  1666455LCS
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151614-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40157487-011 x5
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40157487-012 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40157487-013 x5
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40157487-014 x5
     Datafile          --------

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```

GE BIOTA

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Signed: [signature] Date: 4/3/18

Signed: Dawn Haag Date: 4-3-18

```
      Method                SCREEN2014
20)   Sample        20      40157487-015 X10  BLM 4/3/18
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40157487-016 ~~x3~~ x4
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40157487-017P x10
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      1666456MS x10
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      1666457DUP x10
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp      25      40157487-018 —
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40157487-019 x5
      Datafile              --------
      Method                SCREEN2014
27)   RearSamp      27      40157487-020 x10
      Datafile              --------
      Method                SCREEN2014
28)   Sample        28      40157488-007 x5
      Datafile              --------
      Method                SCREEN2014
29)   RearSamp      29      40157488-008 —
      Datafile              --------
      Method                SCREEN2014
30)   Sample        30      40157488-009 x3
      Datafile              --------
      Method                SCREEN2014
31)   RearSamp      31      40157488-010 x3
      Datafile              --------
      Method                SCREEN2014
32)   Sample        32      40157489-008 x3
      Datafile              --------
      Method                SCREEN2014
33)   RearSamp      33      40157489-009 —
      Datafile              --------
      Method                SCREEN2014
34)   Sample        34      40157489-010 —
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

PROJECT 40GCSJ/K 03/06/18

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```
    Sequence Name: C:\msdchem\1\sequence\030618.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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Bryan Meyer — Signed — 3/7/18 Date

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 OK
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 OK
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 OK
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 OK
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 OK
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 OK
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 OK
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 OK
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 OK
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 OK
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 OK
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 OK
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 OK
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 OK
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 OK
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 OK
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 OK
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 OK
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 OK
      Datafile            030618088
      Method              GEBIOTA2017

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Read and Understood By

Beryl Meyl — Signed — 3/7/18 Date — Signed — 3/7/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\032018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\032018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018005
     Method            GEBIOTA2017
 6) Sample          6  40150294010 x2,,17511,BIOTA
     Datafile          032018006
     Method            GEBIOTA2017
 7) Sample          7  40151597002 x2,,17521,BIOTA
     Datafile          032018007
     Method            GEBIOTA2017
 8) Sample          8  40151608011 x2,,17521,BIOTA
     Datafile          032018008
     Method            GEBIOTA2017
 9) Sample          9  40151800010 x4,,17521,BIOTA
     Datafile          032018009
     Method            GEBIOTA2017
10) Sample         10  40151804005 x2,,17521,BIOTA
     Datafile          032018010
     Method            GEBIOTA2017
11) Sample         11  40151549003 x2,,17523,BIOTA
     Datafile          032018011
     Method            GEBIOTA2017
12) Sample         12  40151549004 x2,,17523,BIOTA
     Datafile          032018012
     Method            GEBIOTA2017
13) Sample         13  40150340003 x4,,17527,BIOTA
     Datafile          032018013
     Method            GEBIOTA2017
14) Sample         14  40150340004 x20,,17527,BIOTA
     Datafile          032018014
     Method            GEBIOTA2017
15) Sample         15  40150340013 x2,,17527,BIOTA
     Datafile          032018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018017
     Method            GEBIOTA2017
18) Sample         18  40150340014 x10,,17527,BIOTA
     Datafile          032018018
     Method            GEBIOTA2017
19) Sample         19  40150340015 x2,,17527,BIOTA
     Datafile          032018019

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```
      Method                GEBIOTA2017
20) Sample          20  40150340020 x4,,17527,BIOTA
      Datafile              032018020
      Method                GEBIOTA2017
21) Sample          21  40151608004 x3,,17532,BIOTA
      Datafile              032018021
      Method                GEBIOTA2017
22) Sample          22  40151608007 x2,,17532,BIOTA
      Datafile              032018022
      Method                GEBIOTA2017
23) Sample          23  40151608008 x10,,17532,BIOTA
      Datafile              032018023
      Method                GEBIOTA2017
24) Sample          24  1659955,,17547,BIOTA
      Datafile              032018024
      Method                GEBIOTA2017
25) Sample          25  1659956,,17547,BIOTA
      Datafile              032018025
      Method                GEBIOTA2017
26) Sample          26  1659957,,17547,BIOTA
      Datafile              032018026
      Method                GEBIOTA2017
27) Sample          27  40151614007,,17547;BIOTA
      Datafile              032018027
      Method                GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018028
      Method                GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018029
      Method                GEBIOTA2017
30) Sample          30  40151614008,,17547,BIOTA
      Datafile              032018030
      Method                GEBIOTA2017
31) Sample          31  40151705001,,17547,BIOTA
      Datafile              032018031
      Method                GEBIOTA2017
32) Sample          32  40151705002,,17547,BIOTA
      Datafile              032018032
      Method                GEBIOTA2017
33) Sample          33  40151705003,,17547,BIOTA
      Datafile              032018033
      Method                GEBIOTA2017
34) Sample          34  40151705004,,17547,BIOTA
      Datafile              032018034
      Method                GEBIOTA2017
35) Sample          35  40151705005,,17547,BIOTA
      Datafile              032018035
      Method                GEBIOTA2017
36) Sample          36  40151705006,,17547,BIOTA
      Datafile              032018036
      Method                GEBIOTA2017
37) Sample          37  40151705007,,17547,BIOTA
      Datafile              032018037
      Method                GEBIOTA2017
38) Sample          38  40151705008,,17547,BIOTA
      Datafile              032018038
      Method                GEBIOTA2017
39) Sample          39  40151705009,,17547,BIOTA
      Datafile              032018039
      Method                GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018040
      Method                GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018041
      Method                GEBIOTA2017
42) Sample          42  40151705010,,17547,BIOTA
      Datafile              032018042
      Method                GEBIOTA2017
43) Sample          43  40151705011,,17547,BIOTA
      Datafile              032018043

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Sequence Name: C:\msdchem\1\sequence\032018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40151705012,,17547,BIOTA		
	Datafile		032018044		
	Method			GEBIOTA2017	
45)	Sample	45	40151705013,,17547,BIOTA		
	Datafile		032018045		
	Method			GEBIOTA2017	
46)	Sample	46	40151705014,,17547,BIOTA		
	Datafile		032018046		
	Method			GEBIOTA2017	
47)	Sample	47	40151705015,,17547,BIOTA		
	Datafile		032018047		
	Method			GEBIOTA2017	
48)	Sample	48	40151705016,,17547,BIOTA		
	Datafile		032018048		
	Method			GEBIOTA2017	
49)	Sample	49	40151705017,,17547,BIOTA		
	Datafile		032018049		
	Method			GEBIOTA2017	
50)	Sample	50	1659958,,17547,BIOTA		
	Datafile		032018050		
	Method			GEBIOTA2017	
51)	Sample	51	40151705018,,17547,BIOTA		
	Datafile		032018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166		OK
	Datafile		032018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166		OK
	Datafile		032018053		
	Method			GEBIOTA2017	

GCSV Batch #17547 HBN: 2837446 Screened on 40GCSJ 03/20/18.

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Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\032318\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032318003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 ok
     Datafile          032318004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 ok
     Datafile          032318005
     Method            GEBIOTA2017
 6) Sample          6  1662163,,17567,BIOTA
     Datafile          032318006
     Method            GEBIOTA2017
 7) Sample          7  1662164,,17567,BIOTA
     Datafile          032318007
     Method            GEBIOTA2017
 8) Sample          8  1662165,,17567,BIOTA RS x2
     Datafile          032318008
     Method            GEBIOTA2017
 9) Sample          9  40151552011 x4,,17567,BIOTA
     Datafile          032318009
     Method            GEBIOTA2017
10) Sample         10  40151597001,,17567,BIOTA
     Datafile          032318010
     Method            GEBIOTA2017
11) Sample         11  40151605001,,17567,BIOTA
     Datafile          032318011
     Method            GEBIOTA2017
12) Sample         12  40151605002 x2,,17567,BIOTA
     Datafile          032318012
     Method            GEBIOTA2017
13) Sample         13  40151614001,,17567,BIOTA
     Datafile          032318013
     Method            GEBIOTA2017
14) Sample         14  40151616001,,17567,BIOTA
     Datafile          032318014
     Method            GEBIOTA2017
15) Sample         15  40151619001,,17567,BIOTA
     Datafile          032318015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 ok
     Datafile          032318016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 ok
     Datafile          032318017
     Method            GEBIOTA2017
18) Sample         18  40151619002,,17567,BIOTA
     Datafile          032318018
     Method            GEBIOTA2017
19) Sample         19  1662166,,17567,BIOTA
     Datafile          032318019

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```

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Read and Understood By

Bryan Maynard — Signed — 3/26/18 — Date

[illegible] — Signed — 3/26/18 — Date

```
      Method                GEBIOTA2017
20) Sample          20  40151619003,,17567,BIOTA
      Datafile              032318020
      Method                GEBIOTA2017
21) Sample          21  40151619004,,17567,BIOTA
      Datafile              032318021
      Method                GEBIOTA2017
22) Sample          22  40151800001,,17567,BIOTA  RS x 2
      Datafile              032318022
      Method                GEBIOTA2017
23) Sample          23  40151800002,,17567,BIOTA
      Datafile              032318023
      Method                GEBIOTA2017
24) Sample          24  40151800003 x2,,17567,BIOTA  RS x 3
      Datafile              032318024
      Method                GEBIOTA2017
25) Sample          25  40151800004,,17567,BIOTA
      Datafile              032318025
      Method                GEBIOTA2017
26) Sample          26  40151804001 x3,,17567,BIOTA
      Datafile              032318026
      Method                GEBIOTA2017
27) Sample          27  40151804002,,17567,BIOTA
      Datafile              032318027
      Method                GEBIOTA2017
28) Sample          28  1254-CCV,185554:1,17498,AR125  OK
      Datafile              032318028
      Method                GEBIOTA2017
29) Sample          29  1254-CCV,185554:1,17498,AR125  OK
      Datafile              032318029
      Method                GEBIOTA2017
30) Sample          30  40151804003 x2,,17567,BIOTA
      Datafile              032318030
      Method                GEBIOTA2017
31) Sample          31  40151804009 x3,,17567,BIOTA
      Datafile              032318031
      Method                GEBIOTA2017
32) Sample          32  40151804010 x5,,17567,BIOTA
      Datafile              032318032
      Method                GEBIOTA2017
33) Sample          33  1660-CCV,185559:1,17498,AR166  OK
      Datafile              032318033
      Method                GEBIOTA2017
34) Sample          34  1660-CCV,185559:1,17498,AR166  OK
      Datafile              032318034
      Method                GEBIOTA2017
```

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Signed 3/26/18 Date Signed 3/26/18 Date

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```
      Sequence Name: C:\msdchem\1\sequence\032718.s
            Comment:
           Operator: BLM
          Data Path: C:\MSDCHEM\1\DATA\032718\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032718003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718004
     Method            GEBIOTA2017
 5) Sample          5  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718005
     Method            GEBIOTA2017
 6) Sample          6  40151549007 x4,,17523,BIOTA
     Datafile          032718006
     Method            GEBIOTA2017
 7) Sample          7  1662165 x2,,17567,BIOTA
     Datafile          032718007
     Method            GEBIOTA2017
 8) Sample          8  40151800001 x2,,17567,BIOTA
     Datafile          032718008
     Method            GEBIOTA2017
 9) Sample          9  40151800003 x3,,17567,BIOTA
     Datafile          032718009
     Method            GEBIOTA2017
10) Sample         10  1662965,,17575,BIOTA
     Datafile          032718010
     Method            GEBIOTA2017
11) Sample         11  ~~1662965~~,,17575,BIOTA 16629606
     Datafile          032718011
     Method            GEBIOTA2017
12) Sample         12  1662968 x2,,17575,BIOTA RS x30
     Datafile          032718012
     Method            GEBIOTA2017
13) Sample         13  40151613012,,17575,BIOTA
     Datafile          032718013
     Method            GEBIOTA2017
14) Sample         14  1662967,,17575,BIOTA
     Datafile          032718014
     Method            GEBIOTA2017
15) Sample         15  40151613013,,17575,BIOTA
     Datafile          032718015
     Method            GEBIOTA2017
16) Sample         16  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718016
     Method            GEBIOTA2017
17) Sample         17  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718017
     Method            GEBIOTA2017
18) Sample         18  40151614006 x3,,17575,BIOTA
     Datafile          032718018
     Method            GEBIOTA2017
19) Sample         19  40151614009 x2,,17575,BIOTA
     Datafile          032718019

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```

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Signed 4-3-18 Date

```
      Method              GEBIOTA2017
20) Sample          20  40151614010,,17575,BIOTA RS x2
      Datafile            032718020
      Method              GEBIOTA2017
21) Sample          21  40151616002 x10,,17575,BIOTA
      Datafile            032718021
      Method              GEBIOTA2017
22) Sample          22  40151616003 x3,,17575,BIOTA
      Datafile            032718022
      Method              GEBIOTA2017
23) Sample          23  40151616004 x5,,17575,BIOTA
      Datafile            032718023
      Method              GEBIOTA2017
24) Sample          24  40151616005,,17575,BIOTA
      Datafile            032718024
      Method              GEBIOTA2017
25) Sample          25  40151616006 x10,,17575,BIOTA
      Datafile            032718025
      Method              GEBIOTA2017
26) Sample          26  40151616007 x5,,17575,BIOTA RS x15
      Datafile            032718026
      Method              GEBIOTA2017
27) Sample          27  40151616008 x2,,17575,BIOTA
      Datafile            032718027
      Method              GEBIOTA2017
28) Sample          28  1242-CCV,185544:1,17498,AR124 ok
      Datafile            032718028
      Method              GEBIOTA2017
29) Sample          29  1242-CCV,185544:1,17498,AR124 ok
      Datafile            032718029
      Method              GEBIOTA2017
30) Sample          30  40151616009 x5,,17575,BIOTA RS x100
      Datafile            032718030
      Method              GEBIOTA2017
31) Sample          31  40151616010 x2,,17575,BIOTA RS x30
      Datafile            032718031
      Method              GEBIOTA2017
32) Sample          32  1662969 x2,,17575,BIOTA RS x30
      Datafile            032718032
      Method              GEBIOTA2017
33) Sample          33  40151802006,,17575,BIOTA
      Datafile            032718033
      Method              GEBIOTA2017
34) Sample          34  40151805002,,17575,BIOTA
      Datafile            032718034
      Method              GEBIOTA2017
35) Sample          35  1248-CCV,185549:1,17498,AR124 ok
      Datafile            032718035
      Method              GEBIOTA2017
36) Sample          36  1248-CCV,185549:1,17498,AR124 ok
      Datafile            032718036
      Method              GEBIOTA2017
```

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Read and Understood By

Signed 4/3/18 Date Signed 4-3-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032818.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\032818\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
  ---------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032818001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032818002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032818003
     Method            GEBIOTA2017
 4) Sample          4  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032818004
     Method            GEBIOTA2017
 5) Sample          5  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032818005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x30,,17575,BIOTA RS
     Datafile          032818006
     Method            GEBIOTA2017
 7) Sample          7  40151614010 x2,,17575,BIOTA
     Datafile          032818007
     Method            GEBIOTA2017
 8) Sample          8  40151616007 x15,,17575,BIOTA
     Datafile          032818008
     Method            GEBIOTA2017
 9) Sample          9  40151616009 x100,,17575,BIOTA
     Datafile          032818009
     Method            GEBIOTA2017
10) Sample         10  40151616010 x30,,17575,BIOTA RS
     Datafile          032818010
     Method            GEBIOTA2017
11) Sample         11  1662969 x30,,17575,BIOTA
     Datafile          032818011
     Method            GEBIOTA2017
12) Sample         12  1664186,,17584,BIOTA
     Datafile          032818012
     Method            GEBIOTA2017
13) Sample         13  1664187,,17584,BIOTA
     Datafile          032818013
     Method            GEBIOTA2017
14) Sample         14  1664188 x5,,17584,BIOTA
     Datafile          032818014
     Method            GEBIOTA2017
15) Sample         15  40157828001 x3,,17584,BIOTA
     Datafile          032818015
     Method            GEBIOTA2017
16) Sample         16  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032818016
     Method            GEBIOTA2017
17) Sample         17  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032818017
     Method            GEBIOTA2017
18) Sample         18  40157828002 x4,,17584,BIOTA
     Datafile          032818018
     Method            GEBIOTA2017
19) Sample         19  40157828003 x3,,17584,BIOTA
     Datafile          032818019

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```

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Signed: [signature] Date: 4/3/18 Signed: [signature] Date: 4-3-18

```
      Method          GEBIOTA2017
20) Sample      20  40157828004 x3,,17584,BIOTA
      Datafile        032818020
      Method          GEBIOTA2017
21) Sample      21  40157828005 x2,,17584,BIOTA
      Datafile        032818021
      Method          GEBIOTA2017
22) Sample      22  40157828006 x4,,17584,BIOTA
      Datafile        032818022
      Method          GEBIOTA2017
23) Sample      23  40157828007 x5,,17584,BIOTA
      Datafile        032818023
      Method          GEBIOTA2017
24) Sample      24  40157828008 x3,,17584,BIOTA
      Datafile        032818024
      Method          GEBIOTA2017
25) Sample      25  40157828009 x5,,17584,BIOTA
      Datafile        032818025
      Method          GEBIOTA2017
26) Sample      26  40157828010 x5,,17584,BIOTA RS
      Datafile        032818026
      Method          GEBIOTA2017
27) Sample      27  40157828011 x5,,17584,BIOTA
      Datafile        032818027
      Method          GEBIOTA2017
28) Sample      28  1221-CCV,185538:1,17498,AR122 OK
      Datafile        032818028
      Method          GEBIOTA2017
29) Sample      29  1221-CCV,185538:1,17498,AR122 OK
      Datafile        032818029
      Method          GEBIOTA2017
30) Sample      30  40157828012 x5,,17584,BIOTA
      Datafile        032818030
      Method          GEBIOTA2017
31) Sample      31  40157828013 x5,,17584,BIOTA
      Datafile        032818031
      Method          GEBIOTA2017
32) Sample      32  40157828014 x3,,17584,BIOTA
      Datafile        032818032
      Method          GEBIOTA2017
33) Sample      33  40157828015 x5,,17584,BIOTA
      Datafile        032818033
      Method          GEBIOTA2017
34) Sample      34  40157828016 x5,,17584,BIOTA
      Datafile        032818034
      Method          GEBIOTA2017
35) Sample      35  40157828017 x5,,17584,BIOTA
      Datafile        032818035
      Method          GEBIOTA2017
36) Sample      36  40157828018 x5,,17584,BIOTA
      Datafile        032818036
      Method          GEBIOTA2017
37) Sample      37  1664189 x5,,17584,BIOTA
      Datafile        032818037
      Method          GEBIOTA2017
38) Sample      38  40157828019 x2,,17584,BIOTA RS
      Datafile        032818038
      Method          GEBIOTA2017
39) Sample      39  40157828020 x5,,17584,BIOTA
      Datafile        032818039
      Method          GEBIOTA2017
40) Sample      40  1232-CCV,185539:1,17498,AR123 OK
      Datafile        032818040
      Method          GEBIOTA2017
41) Sample      41  1232-CCV,185539:1,17498,AR123 OK
      Datafile        032818041
      Method          GEBIOTA2017
```

GCSV Batch #17584 HBN: 284488 Screened: 40GCSI 3/28/18

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Read and Understood By

Signed 4/3/18 Date Signed 4-3-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\033018.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          033018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          033018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          033018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x40,,17575,BIOTA
     Datafile          033018006
     Method            GEBIOTA2017
 7) Sample          7  40151616010 x40,,17575,BIOTA
     Datafile          033018007
     Method            GEBIOTA2017
 8) Sample          8  40157828010 x10,,17584,BIOTA
     Datafile          033018008
     Method            GEBIOTA2017
 9) Sample          9  40157828019 x3,,17584,BIOTA
     Datafile          033018009
     Method            GEBIOTA2017
10) Sample         10  1664793,,17591,BIOTA
     Datafile          033018010
     Method            GEBIOTA2017
11) Sample         11  1664794,,17591,BIOTA
     Datafile          033018011
     Method            GEBIOTA2017
12) Sample         12  1664795,,17591,BIOTA
     Datafile          033018012
     Method            GEBIOTA2017
13) Sample         13  40151549001 x3,,17591,BIOTA
     Datafile          033018013
     Method            GEBIOTA2017
14) Sample         14  40151601001,,17591,BIOTA
     Datafile          033018014
     Method            GEBIOTA2017
15) Sample         15  40151613001,,17591,BIOTA
     Datafile          033018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018017
     Method            GEBIOTA2017
18) Sample         18  1664796,,17591,BIOTA
     Datafile          033018018
     Method            GEBIOTA2017
19) Sample         19  40151613002,,17591,BIOTA
     Datafile          033018019

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```

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Read and Understood By

Signed: Bryan Mayl — Date: 4/3/18

Signed: Dawn Haag — Date: 4-3-18

```
      Method              GEBIOTA2017
20) Sample          20  40151614002 x2,,17591,BIOTA
      Datafile            033018020
      Method              GEBIOTA2017
21) Sample          21  40151614003 x3,,17591,BIOTA
      Datafile            033018021
      Method              GEBIOTA2017
22) Sample          22  40151614004,,17591,BIOTA
      Datafile            033018022
      Method              GEBIOTA2017
23) Sample          23  40151613014,,17591,BIOTA
      Datafile            033018023
      Method              GEBIOTA2017
24) Sample          24  40151800005,,17591,BIOTA
      Datafile            033018024
      Method              GEBIOTA2017
25) Sample          25  40151802001,,17591,BIOTA
      Datafile            033018025
      Method              GEBIOTA2017
26) Sample          26  40151802002,,17591,BIOTA
      Datafile            033018026
      Method              GEBIOTA2017
27) Sample          27  40151802003,,17591,BIOTA
      Datafile            033018027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile            033018028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile            033018029
      Method              GEBIOTA2017
30) Sample          30  40151802004,,17591,BIOTA
      Datafile            033018030
      Method              GEBIOTA2017
31) Sample          31  40151802005,,17591,BIOTA
      Datafile            033018031
      Method              GEBIOTA2017
32) Sample          32  40151805001,,17591,BIOTA
      Datafile            033018032
      Method              GEBIOTA2017
33) Sample          33  40157825001,,17591,BIOTA
      Datafile            033018033
      Method              GEBIOTA2017
34) Sample          34  1664809,,17591,BIOTA
      Datafile            033018034
      Method              GEBIOTA2017
35) Sample          35  1665641,,17602,BIOTA
      Datafile            033018035
      Method              GEBIOTA2017
36) Sample          36  1665642,,17602,BIOTA
      Datafile            033018036
      Method              GEBIOTA2017
37) Sample          37  1665643 x2,,17602,BIOTA
      Datafile            033018037
      Method              GEBIOTA2017
38) Sample          38  40157488001,,17602,BIOTA
      Datafile            033018038
      Method              GEBIOTA2017
39) Sample          39  40157488002 x2,,17602,BIOTA
      Datafile            033018039
      Method              GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 OK
      Datafile            033018040
      Method              GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 OK
      Datafile            033018041
      Method              GEBIOTA2017
42) Sample          42  40157488003,,17602,BIOTA
      Datafile            033018042
      Method              GEBIOTA2017
43) Sample          43  40157488004 x3,,17602,BIOTA
      Datafile            033018043
```

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Signed 4/3/18 Date Signed 4-3-18 Date

Sequence Name: C:\msdchem\1\sequence\033018.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157488005,,17602,BIOTA		
	Datafile		033018044		
	Method			GEBIOTA2017	
45)	Sample	45	1665644,,17602,BIOTA		
	Datafile		033018045		
	Method			GEBIOTA2017	
46)	Sample	46	40157489001,,17602,BIOTA		
	Datafile		033018046		
	Method			GEBIOTA2017	
47)	Sample	47	40157489002,,17602,BIOTA		
	Datafile		033018047		
	Method			GEBIOTA2017	
48)	Sample	48	40157489003,,17602,BIOTA		
	Datafile		033018048		
	Method			GEBIOTA2017	
49)	Sample	49	40157489004,,17602,BIOTA		
	Datafile		033018049		
	Method			GEBIOTA2017	
50)	Sample	50	40157489005 x2,,17602,BIOTA		
	Datafile		033018050		
	Method			GEBIOTA2017	
51)	Sample	51	40157825002,,17602,BIOTA		
	Datafile		033018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018053		
	Method			GEBIOTA2017	
54)	Sample	54	40157825003,,17602,BIOTA		
	Datafile		033018054		
	Method			GEBIOTA2017	
55)	Sample	55	40157825004,,17602,BIOTA		
	Datafile		033018055		
	Method			GEBIOTA2017	
56)	Sample	56	40157825005,,17602,BIOTA RS x2		
	Datafile		033018056		
	Method			GEBIOTA2017	
57)	Sample	57	40157825006,,17602,BIOTA		
	Datafile		033018057		
	Method			GEBIOTA2017	
58)	Sample	58	1665645,,17602,BIOTA		
	Datafile		033018058		
	Method			GEBIOTA2017	
59)	Sample	59	40157825007 x2,,17602,BIOTA		
	Datafile		033018059		
	Method			GEBIOTA2017	
60)	Sample	60	40157825008 x3,,17602,BIOTA		
	Datafile		033018060		
	Method			GEBIOTA2017	
61)	Sample	61	40157825009 x5,,17602,BIOTA		
	Datafile		033018061		
	Method			GEBIOTA2017	
62)	Sample	62	40157825010,,17602,BIOTA RS x2		
	Datafile		033018062		
	Method			GEBIOTA2017	
63)	Sample	63	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018063		
	Method			GEBIOTA2017	
64)	Sample	64	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018064		
	Method			GEBIOTA2017	

GCSV Batch 17591 HBN: 284630 AND 17602 HBN: 284746
Screened: 03/30/18 40GCSJ

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Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
     Sequence Name: C:\msdchem\1\sequence\040218.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\040218\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          040218001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040218002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040218003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OK
     Datafile          040218004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OK
     Datafile          040218005
     Method            GEBIOTA2017
 6) Sample          6  40157825005 x2,,17602,BIOTA RS
     Datafile          040218006
     Method            GEBIOTA2017
 7) Sample          7  40157825010 x2,,17602,BIOTA RS
     Datafile          040218007
     Method            GEBIOTA2017
 8) Sample          8  1666454,,17607,BIOTA
     Datafile          040218008
     Method            GEBIOTA2017
 9) Sample          9  1666455,,17607,BIOTA
     Datafile          040218009
     Method            GEBIOTA2017
10) Sample         10  40151614005,,17607,BIOTA
     Datafile          040218010
     Method            GEBIOTA2017
11) Sample         11  40157487011 x5,,17607,BIOTA
     Datafile          040218011
     Method            GEBIOTA2017
12) Sample         12  40157487012,,17607,BIOTA
     Datafile          040218012
     Method            GEBIOTA2017
13) Sample         13  40157487013 x5,,17607,BIOTA
     Datafile          040218013
     Method            GEBIOTA2017
14) Sample         14  40157487014 x5,,17607,BIOTA
     Datafile          040218014
     Method            GEBIOTA2017
15) Sample         15  40157487015 x10,,17607,BIOTA
     Datafile          040218015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OK
     Datafile          040218016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OK
     Datafile          040218017
     Method            GEBIOTA2017
18) Sample         18  40157487016 x4,,17607,BIOTA
     Datafile          040218018
     Method            GEBIOTA2017
19) Sample         19  40157487017 x10,,17607,BIOTA
     Datafile          040218019

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```

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```
      Method                GEBIOTA2017
20) Sample          20  1666456 x10,,17607,BIOTA
      Datafile            040218020
      Method              GEBIOTA2017
21) Sample          21  1666457 x10,,17607,BIOTA
      Datafile            040218021
      Method              GEBIOTA2017
22) Sample          22  40157487018,,17607,BIOTA
      Datafile            040218022
      Method              GEBIOTA2017
23) Sample          23  40157487019 x5,,17607,BIOTA
      Datafile            040218023
      Method              GEBIOTA2017
24) Sample          24  40157487020 x10,,17607,BIOTA
      Datafile            040218024
      Method              GEBIOTA2017
25) Sample          25  40157488007 x5,,17607,BIOTA
      Datafile            040218025
      Method              GEBIOTA2017
26) Sample          26  40157488008,,17607,BIOTA
      Datafile            040218026
      Method              GEBIOTA2017
27) Sample          27  40157488009 x3,,17607,BIOTA
      Datafile            040218027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 ok
      Datafile            040218028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 ok
      Datafile            040218029
      Method              GEBIOTA2017
30) Sample          30  40157488010 x3,,17607,BIOTA
      Datafile            040218030
      Method              GEBIOTA2017
31) Sample          31  40157489008 x3,,17607,BIOTA
      Datafile            040218031
      Method              GEBIOTA2017
32) Sample          32  40157489009,,17607,BIOTA
      Datafile            040218032
      Method              GEBIOTA2017
33) Sample          33  40157489010,,17607,BIOTA
      Datafile            040218033
      Method              GEBIOTA2017
34) Sample          34  1254-CCV,185554:1,17498,AR125 ok
      Datafile            040218034
      Method              GEBIOTA2017
35) Sample          35  1254-CCV,185554:1,17498,AR125 ok
      Datafile            040218035
      Method              GEBIOTA2017
```

GCJV Batch 17607 HBN: 284860 Screened:
40GCSI 04/02/18

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Signed: [signature] Date: 4-3-18

Standard Log Report

Standards Log Information for Standard #192551

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405817
Create Date:	03/28/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000191733	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192488

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/28/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/28/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192488

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #192488

Composed of Standard Seq	Volume	Units
189481	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #192185

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/23/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/23/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192185

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #192185

Composed of Standard Seq	Volume	Units
190940	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	03/22/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/22/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

Compound Name and Concentration for Standard #192096

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #192096

Composed of Standard Seq	Volume	Units
179368	196	mL
81343	1	mL
81342	1	mL
81341	1	mL
81340	1	mL

Standard Log Report

Standards Log Information for Standard #191930

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/21/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/21/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191930

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #191930

Composed of Standard Seq	Volume	Units
190949	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #191350

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/14/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/14/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191350

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #191350

Composed of Standard Seq	Volume	Units
190948	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #190952

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190952

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #190949

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190949

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #190948

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190948

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #190940

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190940

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #189481

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189481

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188340

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	02/01/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #188340

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: 4/22/14 cre

Certificate of Analysis

Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

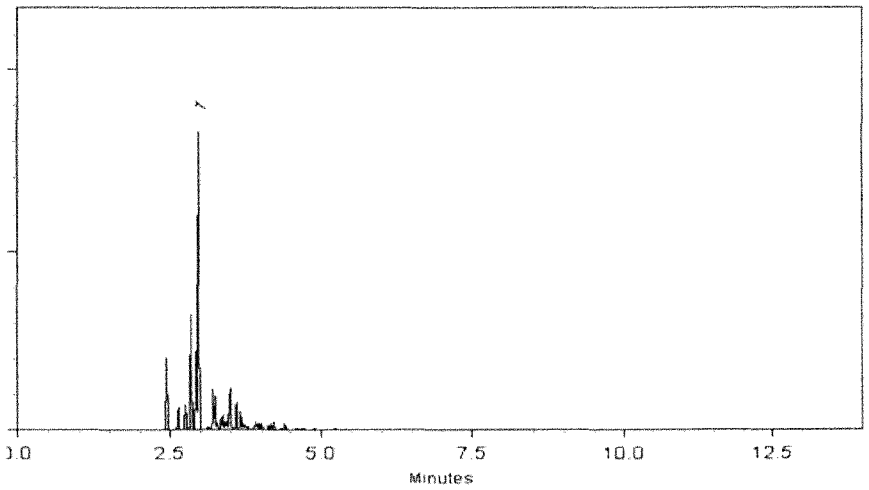
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

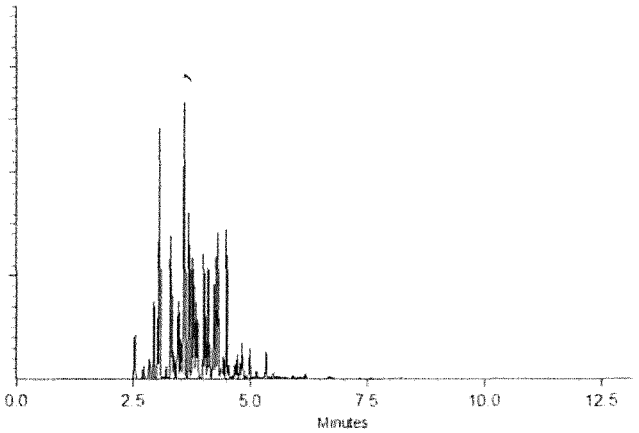
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

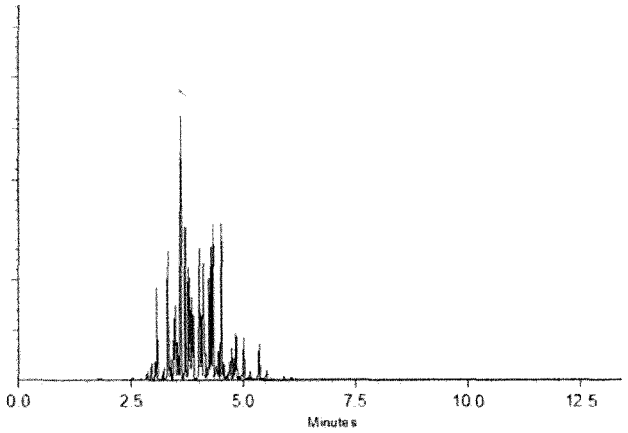
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

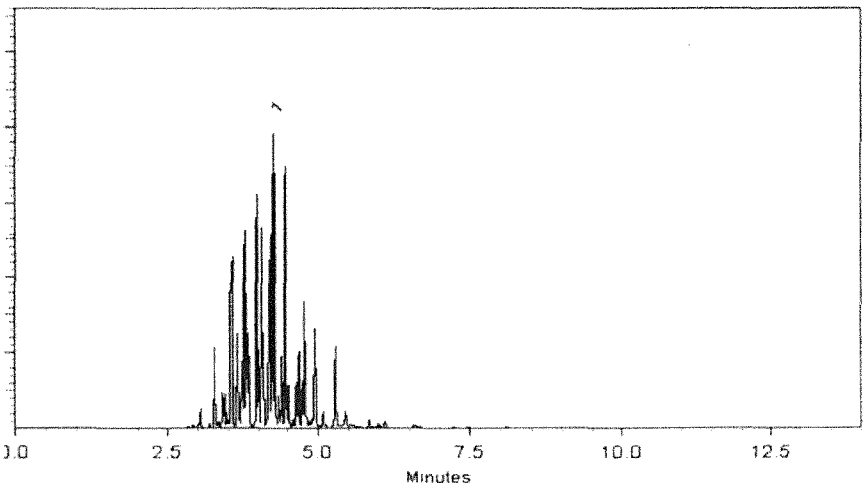
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

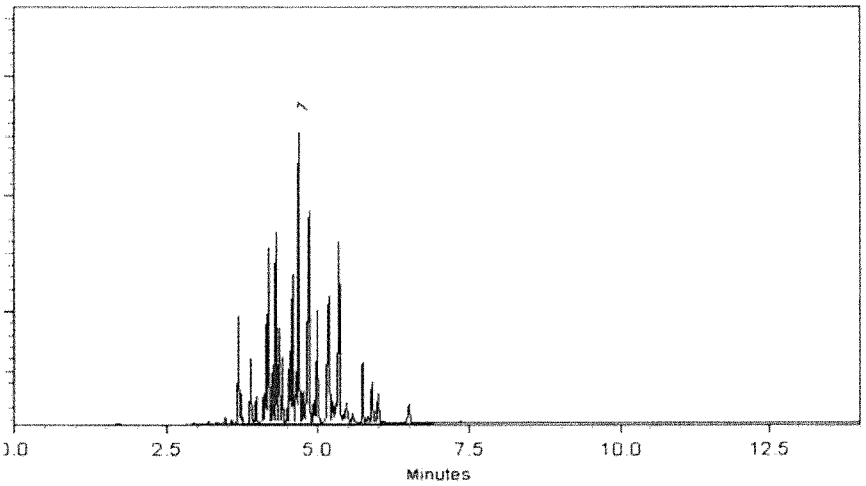
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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Certificate #FM 80397

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

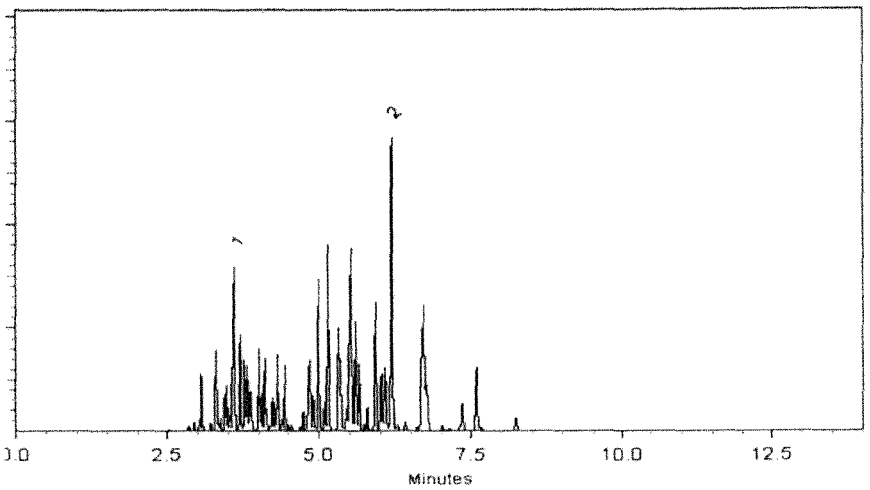
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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ACCREDITED

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Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____
Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff
Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC.08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%
for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

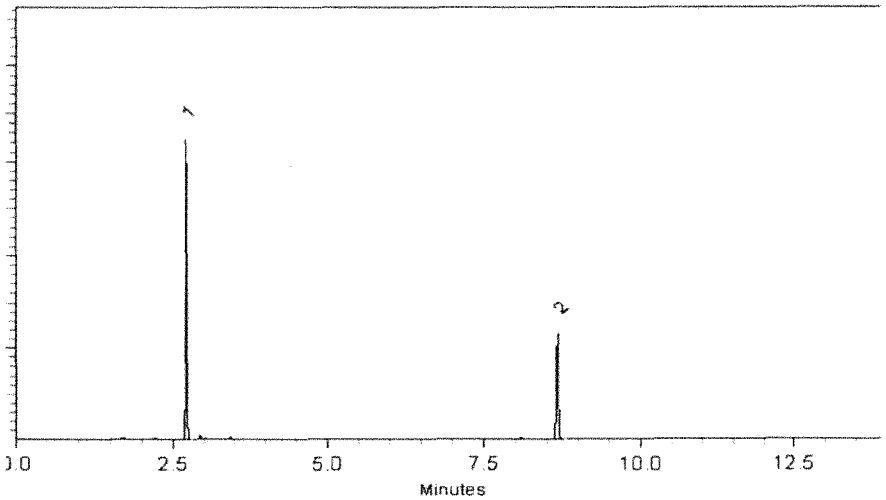
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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Fax: (231) 728-8226
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Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron
Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

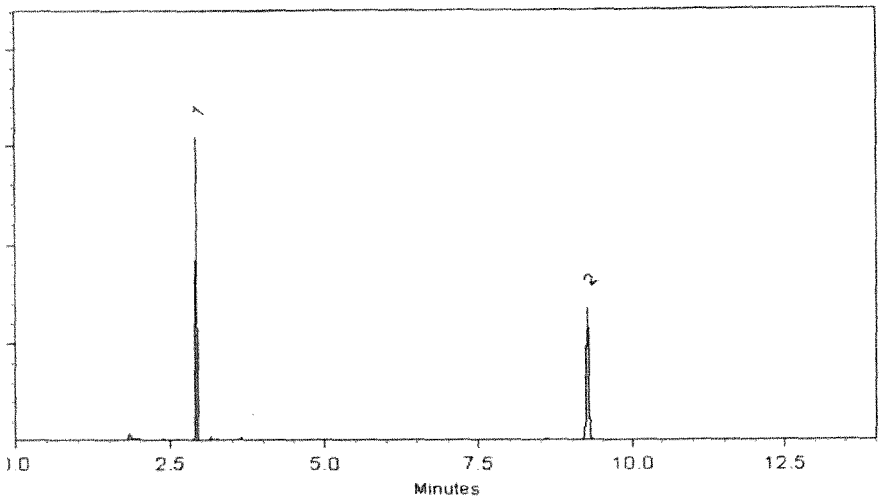
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

o2si smart solutions®

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2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By --

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

SW1-170613-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.61		%	1	03/23/2018 06:20

SAMPLE NO.

SW1-170613-01-SMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.56		%	1	03/29/2018 07:09

SAMPLE NO.

SW1-170613-01-SMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.29		%	1	03/29/2018 07:09

SAMPLE NO.

SW1-170613-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.23		%	1	03/29/2018 07:10

SAMPLE NO.

SW1-170613-01-LMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.25		%	1	04/02/2018 06:18

SAMPLE NO.

SW1-170613-01-LMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.20		%	1	03/23/2018 14:11

SAMPLE NO.

SW1-170613-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.61		%	1	03/20/2018 08:27

SAMPLE NO.

SW1-170613-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.60		%	1	03/20/2018 08:27

SAMPLE NO.

SW1-170613-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.71		%	1	03/23/2018 14:11

SAMPLE NO.

SW1-170613-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151614010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.91		%	1	03/23/2018 14:11

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1661134	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1662744	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1663325	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1665662	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1667515	C
Lipid									<0.030	U

SAMPLE NO.

1661137DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.75	0.72	5

SAMPLE NO.

1662747DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.70	0.81	14

SAMPLE NO.

1663327DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.32	0.27	15

SAMPLE NO.

1663329DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.43	0.37	16

SAMPLE NO.

1665665DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.30	0.28	7

SAMPLE NO.

1665666DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.39	0.44	13

SAMPLE NO.

1667518DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151614 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.28	0.23	22

Prep Log Report

Batch Information: OEXT 283726 LIPIDS **Template Version: F-GB-O-145-Rev.00 (17Feb2015) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:31				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1661134**	Y	-0.01500	03/20/2018 08:27:32		10	5	1	0.9268	0.9265	M	
LIPID	BLANK	**1661135**	Y	-0.04000	03/20/2018 08:27:32		10	5	1	0.9223	0.9215	M	
LIPID	PS	**40151614007**	Y	0.6113	03/20/2018 08:27:32		9.9789	5	1	0.9271	0.9393	M	
LIPID	PS	**40151614008**	Y	0.5970	03/20/2018 08:27:32		9.9668	5	1	0.9244	0.9363	M	
LIPID	PS	**40151705001**	Y	0.5241	03/20/2018 08:27:32		10.0179	5	1	0.9239	0.9344	M	
LIPID	PS	**40151705002**	Y	0.3509	03/20/2018 08:27:32		9.9736	5	1	0.9227	0.9297	M	
LIPID	PS	**40151705003**	Y	0.3508	03/20/2018 08:27:32		9.9774	5	1	0.9267	0.9337	M	
LIPID	PS	**40151705004**	Y	0.3492	03/20/2018 08:27:32		10.0227	5	1	0.9234	0.9304	M	
LIPID	PS	**40151705005**	Y	0.6799	03/20/2018 08:27:32		10.0013	5	1	0.9293	0.9429	M	
LIPID	PS	**40151705006**	Y	1.252	03/20/2018 08:27:32		9.9835	5	1	0.9265	0.9515	M	
LIPID	PS	**40151705007**	Y	0.4995	03/20/2018 08:27:32		10.0108	5	1	0.9258	0.9358	M	
LIPID	PS	**40151705008**	Y	0.5515	03/20/2018 08:27:32		9.9731	5	1	0.9271	0.9381	M	
LIPID	PS	**40151705009**	Y	0.6278	03/20/2018 08:27:32		10.0354	5	1	0.9231	0.9357	M	
LIPID	PS	**40151705010**	Y	0.6336	03/20/2018 08:27:32		10.022	5	1	0.9228	0.9355	M	
LIPID	PS	**40151705011**	Y	0.4738	03/20/2018 08:27:32		10.0245	5	1	0.9279	0.9374	M	
LIPID	PS	**40151705012**	Y	0.4412	03/20/2018 08:27:32		9.973	5	1	0.9252	0.934	M	
LIPID	PS	**40151705013**	Y	0.3797	03/20/2018 08:27:32		10.0077	5	1	0.9244	0.932	M	
LIPID	PS	**40151705014**	Y	1.522	03/20/2018 08:27:32		10.0189	5	1	0.9244	0.9549	M	
LIPID	PS	**40151705015**	Y	0.5640	03/20/2018 08:27:32		10.0181	5	1	0.9231	0.9344	M	

Prep Log Report

40151614

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151705016**	Y	0.4832	03/20/2018 08:27:32		10.0368	5	1	0.9248	0.9345	M	
LIPID	RQS	**40151705017**	Y	0.7547	03/20/2018 08:27:32		10.0037	5	1	0.9266	0.9417	M	
LIPID	DUP	**1661137**	Y	0.7172	03/20/2018 08:27:32		10.0385	5	1	0.9223	0.9367	M	
LIPID	PS	**40151705018**	Y	0.4006	03/20/2018 08:27:32		9.9851	5	1	0.9258	0.9338	M	
LIPID	MS	**1682476**	Y	0.7454	03/20/2018 08:27:32		9.9949	5	1	.9244	0.9393	M	

Prep Log Report

Batch Information: OEXT 284080 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:43				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1662744**	Y	0.01500	03/23/2018 06:20:11		10	5	1	0.9258	0.9261	M	
LIPID	BLANK	**1662745**	Y	0.04500	03/23/2018 06:20:11		10	5	1	0.9256	0.9265	M	
LIPID	PS	**40151552011**	Y	1.255	03/23/2018 06:20:11		9.9626	5	1	0.9209	0.9459	M	
LIPID	PS	**40151597001**	Y	0.5350	03/23/2018 06:20:11		9.9992	5	1	0.9267	0.9374	M	
LIPID	PS	**40151605001**	Y	1.669	03/23/2018 06:20:11		10.0092	5	1	0.9233	0.9567	M	
LIPID	PS	**40151605002**	Y	0.8256	03/23/2018 06:20:11		9.9923	5	1	0.9281	0.9446	M	
LIPID	PS	**40151614001**	Y	0.6138	03/23/2018 06:20:11		10.0203	5	1	0.9272	0.9395	M	
LIPID	PS	**40151616001**	Y	0.4351	03/23/2018 06:20:11		9.9967	5	1	0.9266	0.9353	M	
LIPID	PS	**40151619001**	Y	0.7315	03/23/2018 06:20:11		9.9791	5	1	0.9237	0.9383	M	
LIPID	RQS	**40151619002**	Y	0.6984	03/23/2018 06:20:11		10.0233	5	1	0.9254	0.9394	M	
LIPID	DUP	**1662747**	Y	0.8068	03/23/2018 06:20:11		9.9773	5	1	0.9286	0.9447	M	
LIPID	PS	**40151619003**	Y	1.308	03/23/2018 06:20:11		10.0185	5	1	0.9251	0.9513	M	
LIPID	PS	**40151619004**	Y	0.9110	03/23/2018 06:20:11		9.9887	5	1	0.9302	0.9484	M	
LIPID	PS	**40151800001**	Y	0.4543	03/23/2018 06:20:11		10.0159	5	1	0.9307	0.9398	M	
LIPID	PS	**40151800002**	Y	0.6069	03/23/2018 06:20:11		9.968	5	1	0.9303	0.9424	M	
LIPID	PS	**40151800003**	Y	1.099	03/23/2018 06:20:11		9.9637	5	1	0.9323	0.9542	M	
LIPID	PS	**40151800004**	Y	0.8284	03/23/2018 06:20:11		10.0193	5	1	0.9266	0.9432	M	
LIPID	PS	**40151804001**	Y	1.434	03/23/2018 06:20:11		9.9711	5	1	0.9289	0.9575	M	
LIPID	PS	**40151804002**	Y	0.3909	03/23/2018 06:20:11		9.9758	5	1	0.9282	0.936	M	

Prep Log Report

40151614

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151804003**	Y	0.9836	03/23/2018 06:20:11		9.9638	5	1	0.9296	0.9492	M	
LIPID	PS	**40151804009**	Y	1.054	03/23/2018 06:20:11		10.0066	5	1	0.9292	0.9503	M	
LIPID	PS	**40151804010**	Y	1.136	03/23/2018 06:20:11		10.0363	5	1	0.9286	0.9514	M	
LIPID	MS	**1682565**	Y	0.7630	03/23/2018 06:20:11		9.9608	5	1	.9272	0.9424	M	

Prep Log Report

Batch Information: OEXT 284178 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:50				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1663325**	Y	-0.005000	03/23/2018 14:11:08		10	5	1	0.9286	0.9285	M	
LIPID	BLANK	**1663326**	Y	-0.02500	03/23/2018 14:11:08		10	5	1	0.9301	0.9296	M	
LIPID	PS	**40151613012**	Y	0.3157	03/23/2018 14:11:08		9.978	5	1	0.9304	0.9367	M	
LIPID	DUP	**1663327**	Y	0.2703	03/23/2018 14:11:08		9.9887	5	1	0.9297	0.9351	M	
LIPID	PS	**40151613013**	Y	0.2156	03/23/2018 14:11:08		9.974	5	1	0.929	0.9333	M	
LIPID	PS	**40151614006**	Y	0.1953	03/23/2018 14:11:08		9.9847	5	1	0.9312	0.9351	M	
LIPID	PS	**40151614009**	Y	0.7095	03/23/2018 14:11:08		10.0068	5	1	0.9288	0.943	M	
LIPID	PS	**40151614010**	Y	0.9109	03/23/2018 14:11:08		9.9903	5	1	0.9327	0.9509	M	
LIPID	PS	**40151616002**	Y	1.022	03/23/2018 14:11:08		10.0303	5	1	0.9302	0.9507	M	
LIPID	PS	**40151616003**	Y	0.7577	03/23/2018 14:11:08		9.964	5	1	0.9318	0.9469	M	
LIPID	PS	**40151616004**	Y	1.189	03/23/2018 14:11:08		9.9633	5	1	0.9297	0.9534	M	
LIPID	PS	**40151616005**	Y	0.8132	03/23/2018 14:11:08		9.9603	5	1	0.9315	0.9477	M	
LIPID	PS	**40151616006**	Y	1.163	03/23/2018 14:11:08		10.0159	5	1	0.9297	0.953	M	
LIPID	PS	**40151616007**	Y	0.7830	03/23/2018 14:11:08		9.9618	5	1	0.9269	0.9425	M	
LIPID	PS	**40151616008**	Y	1.421	03/23/2018 14:11:08		10.0254	5	1	0.9288	0.9573	M	
LIPID	PS	**40151616009**	Y	1.048	03/23/2018 14:11:08		9.9761	5	1	0.9294	0.9503	M	
LIPID	RQS	**40151616010**	Y	0.4303	03/23/2018 14:11:08		9.9941	5	1	0.9282	0.9368	M	
LIPID	DUP	**1663329**	Y	0.3651	03/23/2018 14:11:08		9.9982	5	1	0.9289	0.9362	M	
LIPID	PS	**40151802006**	Y	0.6452	03/23/2018 14:11:08		9.9966	5	1	0.9252	0.9381	M	

Prep Log Report

40151614

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151805002**	Y	0.8014	03/23/2018 14:11:08		9.9823	5	1	0.9318	0.9478	M	
LIPID	MS	**1682513**	Y	0.4666	03/23/2018 14:11:08		9.965	5	1	.9284	0.9377	M	

Prep Log Report

Batch Information: OEXT 284607 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:45				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1665662**	Y	0.000	03/29/2018 07:08:13		10	5	1	0.9302	0.9302	M	1664793
LIPID	BLANK	**1665663**	Y	-0.01000	03/29/2018 07:08:26		10	5	1	0.929	0.9288	M	1664794
LIPID	PS	**40151549001**	Y	0.8646	03/29/2018 07:08:40		10.0051	5	1	0.9306	0.9479	M	
LIPID	PS	**40151601001**	Y	0.4694	03/29/2018 07:08:51		10.0134	5	1	0.9305	0.9399	M	
LIPID	PS	**40151613001**	Y	0.2956	03/29/2018 07:09:02		9.9785	5	1	0.9291	0.935	M	
LIPID	DUP	**1665665**	Y	0.2754	03/29/2018 07:09:22		9.9864	5	1	0.928	0.9335	M	1664796
LIPID	PS	**40151613002**	Y	0.3351	03/29/2018 07:09:35		9.9976	5	1	0.9266	0.9333	M	
LIPID	PS	**40151614002**	Y	0.5648	03/29/2018 07:09:44		10.0031	5	1	0.9267	0.938	M	
LIPID	PS	**40151614003**	Y	0.2853	03/29/2018 07:09:58		9.9906	5	1	0.9255	0.9312	M	
LIPID	PS	**40151614004**	Y	0.2303	03/29/2018 07:10:08		9.986	5	1	0.9277	0.9323	M	
LIPID	PS	**40151613014**	Y	0.3100	03/29/2018 07:10:21		10	5	1	0.9278	0.934	M	
LIPID	PS	**40151800005**	Y	0.5196	03/29/2018 07:10:32		10.0085	5	1	0.926	0.9364	M	
LIPID	PS	**40151802001**	Y	0.2955	03/29/2018 07:10:38		9.9815	5	1	0.9251	0.931	M	
LIPID	PS	**40151802002**	Y	0.2035	03/29/2018 07:10:45		9.994	5	1.5	0.9294	0.9355	M	1*
LIPID	PS	**40151802003**	Y	0.3614	03/29/2018 07:10:53		9.9604	5	1	0.9296	0.9368	M	
LIPID	PS	**40151802004**	Y	0.3492	03/29/2018 07:11:00		10.0221	5	1	0.9287	0.9357	M	
LIPID	PS	**40151802005**	Y	0.3408	03/29/2018 07:11:07		9.9766	5	1	0.928	0.9348	M	
LIPID	PS	**40151805001**	Y	1.029	03/29/2018 07:11:17		10.0137	5	1	0.9291	0.9497	M	
LIPID	PS	**40157825001**	Y	0.3859	03/29/2018 07:11:23		9.9773	5	1	0.9255	0.9332	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	DUP	**1665666**	Y	0.4392	03/29/2018 07:11:30		10.019	5	1	0.924	0.9328	M	1664809
LIPID	MS	**1682554**	Y	0.2706	03/29/2018 07:11:30		9.9787	5	1	.9302	0.9356	M	

Sample Notes:

1*: 0.5mL of samples was added on accident to the tin so the Lipids are out of 1.5 instead of the usual 1.0mL. AMC 4/6/18

Prep Log Report

Batch Information: OEXT 284832 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:42				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1667515**	Y	-0.005000	04/02/2018 06:18:18		10	5	1	0.9252	0.9251	M	1666454
LIPID	BLANK	**1667516**	Y	0.005000	04/02/2018 06:18:18		10	5	1	0.9292	0.9293	M	1666455
LIPID	PS	**40151614005**	Y	0.2493	04/02/2018 06:18:18		10.0269	5	1	0.9255	0.9305	M	
LIPID	PS	**40157487011**	Y	0.2349	04/02/2018 06:18:18		10.0051	5	1	0.9287	0.9334	M	
LIPID	PS	**40157487012**	Y	0.2706	04/02/2018 06:18:18		9.9785	5	1	0.9284	0.9338	M	
LIPID	PS	**40157487013**	Y	0.1698	04/02/2018 06:18:18		10.0107	5	1	0.9254	0.9288	M	
LIPID	PS	**40157487014**	Y	0.4661	04/02/2018 06:18:18		9.9774	5	1	0.9248	0.9341	M	
LIPID	PS	**40157487015**	Y	1.179	04/02/2018 06:18:18		9.9649	5	1	0.9271	0.9506	M	
LIPID	PS	**40157487016**	Y	0.2693	04/02/2018 06:18:18		10.0255	5	1	0.9268	0.9322	M	
LIPID	RQS	**40157487017**	Y	0.2795	04/02/2018 06:18:18		10.0169	5	1	0.9249	0.9305	M	
LIPID	DUP	**1667518**	Y	0.2251	04/02/2018 06:18:18		9.9976	5	1	0.9207	0.9252	M	1666457
LIPID	PS	**40157487018**	Y	0.2155	04/02/2018 06:18:18		9.9778	5	1	0.9252	0.9295	M	
LIPID	PS	**40157487019**	Y	0.2594	04/02/2018 06:18:18		10.0222	5	1	0.9262	0.9314	M	
LIPID	PS	**40157487020**	Y	0.6040	04/02/2018 06:18:18		10.0168	5	1	0.9291	0.9412	M	
LIPID	PS	**40157488007**	Y	0.4998	04/02/2018 06:18:18		10.0031	5	1	0.9248	0.9348	M	
LIPID	PS	**40157488008**	Y	0.2491	04/02/2018 06:18:18		10.0372	5	1	0.9244	0.9294	M	
LIPID	PS	**40157488009**	Y	0.4136	04/02/2018 06:18:18		10.034	5	1	0.9261	0.9344	M	
LIPID	PS	**40157488010**	Y	0.6304	04/02/2018 06:18:18		9.9936	5	1	0.9254	0.938	M	
LIPID	PS	**40157489008**	Y	0.3294	04/02/2018 06:18:18		10.0179	5	1	0.9251	0.9317	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40157489009**	Y	0.3106	04/02/2018 06:18:18		9.98	5	1	0.9271	0.9333	M	
LIPID	PS	**40157489010**	Y	0.2889	04/02/2018 06:18:18		10.039	5	1	0.9296	0.9354	M	
LIPID	MS	**1682573**	Y	0.2550	04/02/2018 06:18:18		9.9998	5	1	.9262	0.9313	M	

40151614

Client Name: GZ
Project #: 40151614
Sample Type: Fish
Date/Time Removed to Thaw: 03-12-18
Date/Time Prepped: 03-13-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	A	F	Y	105.9	Y	M	49.8	Left / Both	Y	9AG	1	Y	46.3	C	
2	A	F	Y	996.2	Y	F	196.1	Left / Both	Y	9AG	1	Y	189.8	C	
3	A	F	Y	412.2	Y	M	97.9	Left / Both	Y	9AG	1	Y	93.5	C	
4	A	F	Y	472.9	Y	F	98.5	Left / Both	Y	9AG	1	Y	96.6	C	
5	A	F	Y	855.8	Y	M	171.0	Left / Both	Y	9AG	1	Y	165.2	C	
6	A	F	Y	631.6	Y	M	127.4	Left / Both	Y	9AG	1	Y	122.3	C	
7	B	F	Y	671.5	Y	F	58.8	Left / Both	Y	9AG	1	Y	56.8	C	Bullhead
8	B	F	Y	684.7	Y	M	74.4	Left / Both	Y	9AG	1	Y	73.0	C	Bullhead
9	B	F	Y	613.3	Y	F	68.9	Left / Both	Y	9AG	1	Y	67.1	C	Bullhead
10	B	F	Y	644.4	Y	F	67.3	Left / Both	Y	9AG	1	Y	65.3	C	Bullhead
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	03-13-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-212-04AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

Date 3/16/18

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