Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151552

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(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.: 40151552

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 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.: 40151552

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.: 40151552

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151552001	**TD5-170612-01-YP-10**	Tissue	06/12/17 15:52	06/13/17 09:30
40151552002	**TD5-170612-01-YP-09**	Tissue	06/12/17 15:50	06/13/17 09:30
40151552003	**TD5-170612-01-YP-08**	Tissue	06/12/17 15:48	06/13/17 09:30
40151552004	**TD5-170612-01-YP-06**	Tissue	06/12/17 15:45	06/13/17 09:30
40151552005	**TD5-170612-01-YP-05**	Tissue	06/12/17 15:43	06/13/17 09:30
40151552006	**TD5-170612-01-YP-04**	Tissue	06/12/17 15:41	06/13/17 09:30
40151552007	**TD5-170612-01-YP-03**	Tissue	06/12/17 15:39	06/13/17 09:30
40151552008	**TD5-170612-01-YP-02**	Tissue	06/12/17 15:37	06/13/17 09:30
40151552009	**TD5-170612-01-YP-01**	Tissue	06/12/17 15:35	06/13/17 09:30
40151552010	**TD5-170612-01-BB-01**	Tissue	06/12/17 15:12	06/13/17 09:30
40151552011	**TD3-170612-01-YP-01**	Tissue	06/12/17 16:10	06/13/17 09:30

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151552001	TD5-170612-01-YP-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552002	TD5-170612-01-YP-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552003	TD5-170612-01-YP-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552004	TD5-170612-01-YP-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552005	TD5-170612-01-YP-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552006	TD5-170612-01-YP-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552007	TD5-170612-01-YP-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552008	TD5-170612-01-YP-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552009	TD5-170612-01-YP-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552010	TD5-170612-01-BB-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151552011	TD3-170612-01-YP-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.: 40151552

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

General Information:
11 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.

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: 283116

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40151552010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1658256)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

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

Analyte Comments:

QC Batch: 283977

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

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

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

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

General Information:
11 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.: 40151552

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

General Information:
11 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.: 40151552

Sample: TD5-170612-01-YP-10 **Lab ID: 40151552001** Collected: 06/12/17 15:52 Received: 06/13/17 09:30 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	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**105**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**66.5**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**11.9J**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	11096-82-5	
PCB, Total	**183**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/20/18 07:17	03/21/18 18:08	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	03/20/18 07:17	03/21/18 18:08	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.57**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-09 **Lab ID: 40151552002** Collected: 06/12/17 15:50 Received: 06/13/17 09:30 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	03/20/18 07:17	03/21/18 18:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**164**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**101**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**25.9J**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	11096-82-5	
PCB, Total	**292**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/20/18 07:17	03/21/18 18:24	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/20/18 07:17	03/21/18 18:24	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.31**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-08 **Lab ID: 40151552003** Collected: 06/12/17 15:48 Received: 06/13/17 09:30 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	03/20/18 07:17	03/21/18 18:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**201**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**127**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**28.5J**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	11096-82-5	
PCB, Total	**357**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 18:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		1	03/20/18 07:17	03/21/18 18:40	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/20/18 07:17	03/21/18 18:40	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.29**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-06 **Lab ID: 40151552004** Collected: 06/12/17 15:45 Received: 06/13/17 09:30 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	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**101**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**72.5**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.0J**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	11096-82-5	
PCB, Total	**192**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 18:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/20/18 07:17	03/21/18 18:55	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/20/18 07:17	03/21/18 18:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.42**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-05 **Lab ID: 40151552005** Collected: 06/12/17 15:43 Received: 06/13/17 09:30 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	03/20/18 07:17	03/21/18 19:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**152**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**87.6**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**21.9J**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	11096-82-5	
PCB, Total	**262**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	03/20/18 07:17	03/21/18 19:11	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/20/18 07:17	03/21/18 19:11	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.66**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-04 **Lab ID: 40151552006** Collected: 06/12/17 15:41 Received: 06/13/17 09:30 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	03/20/18 07:17	03/21/18 19:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**160**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**94.6**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.9J**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	11096-82-5	
PCB, Total	**276**	ug/kg	50.2	11.4	1	03/20/18 07:17	03/21/18 19:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		1	03/20/18 07:17	03/21/18 19:59	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		1	03/20/18 07:17	03/21/18 19:59	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.52**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-03 **Lab ID: 40151552007** Collected: 06/12/17 15:39 Received: 06/13/17 09:30 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	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**63.3**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**29.4J**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	11096-82-5	
PCB, Total	**92.8**	ug/kg	49.8	11.4	1	03/20/18 07:17	03/21/18 20:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		1	03/20/18 07:17	03/21/18 20:14	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	03/20/18 07:17	03/21/18 20:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-02 **Lab ID: 40151552008** Collected: 06/12/17 15:37 Received: 06/13/17 09:30 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	03/20/18 07:17	03/21/18 20:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**38.5J**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**168**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**92.7**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.6J**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	11096-82-5	
PCB, Total	**322**	ug/kg	49.9	11.4	1	03/20/18 07:17	03/21/18 20:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/20/18 07:17	03/21/18 20:30	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/20/18 07:17	03/21/18 20:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.78**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-YP-01 **Lab ID: 40151552009** Collected: 06/12/17 15:35 Received: 06/13/17 09:30 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	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**183**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**121**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**25.5J**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	11096-82-5	
PCB, Total	**329**	ug/kg	50.0	11.4	1	03/20/18 07:17	03/21/18 20:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/20/18 07:17	03/21/18 20:46	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/20/18 07:17	03/21/18 20:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.71**	%	0.030	0.030	1		03/20/18 06:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD5-170612-01-BB-01 **Lab ID: 40151552010** Collected: 06/12/17 15:12 Received: 06/13/17 09:30 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	03/13/18 07:38	03/14/18 17:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**795**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**589**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**284**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	11096-82-5	
PCB, Total	**1670**	ug/kg	150	34.3	3	03/13/18 07:38	03/14/18 17:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		3	03/13/18 07:38	03/14/18 17:10	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		3	03/13/18 07:38	03/14/18 17:10	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		03/14/18 06:49		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Sample: TD3-170612-01-YP-01 **Lab ID: 40151552011** Collected: 06/12/17 16:10 Received: 06/13/17 09:30 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)	**<45.8**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.8**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.8**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.8**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**1040**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**562**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**56.8J**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	11096-82-5	
PCB, Total	**1650**	ug/kg	201	45.8	4	03/22/18 07:22	03/23/18 14:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		4	03/22/18 07:22	03/23/18 14:45	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		4	03/22/18 07:22	03/23/18 14:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/05/18 14:08		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		03/23/18 06:20		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

QC Batch: 283116 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151552010

METHOD BLANK: 1658254 | Matrix: Tissue
Associated Lab Samples: 40151552010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/14/18 13:44	
Decachlorobiphenyl (S)	%	83	60-140		03/14/18 13:44	
Tetrachloro-m-xylene (S)	%	76	60-140		03/14/18 13:44	

LABORATORY CONTROL SAMPLE: 1658255

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	232	93	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)	%			85	60-140	

MATRIX SPIKE SAMPLE: 1658256

Parameter	Units	40151552010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.3		<34.2			
PCB-1221 (Aroclor 1221)	ug/kg	<34.3		<34.2			
PCB-1232 (Aroclor 1232)	ug/kg	<34.3		<34.2			
PCB-1242 (Aroclor 1242)	ug/kg	<34.3	250	354	142	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	795		966			
PCB-1254 (Aroclor 1254)	ug/kg	589		630			
PCB-1260 (Aroclor 1260)	ug/kg	284		295			
Decachlorobiphenyl (S)	%				95	60-140	
Tetrachloro-m-xylene (S)	%				89	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

SAMPLE DUPLICATE: 1658257

Parameter	Units	40151552010 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.3	<34.2		40	
PCB-1221 (Aroclor 1221)	ug/kg	<34.3	<34.2		40	
PCB-1232 (Aroclor 1232)	ug/kg	<34.3	<34.2		40	
PCB-1242 (Aroclor 1242)	ug/kg	<34.3	<34.2		40	
PCB-1248 (Aroclor 1248)	ug/kg	795	853	7	40	
PCB-1254 (Aroclor 1254)	ug/kg	589	628	6	40	
PCB-1260 (Aroclor 1260)	ug/kg	284	299	5	40	
Decachlorobiphenyl (S)	%	101	101	0		
Tetrachloro-m-xylene (S)	%	93	92	2		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

QC Batch: 283695 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151552001, 40151552002, 40151552003, 40151552004, 40151552005, 40151552006, 40151552007, 40151552008, 40151552009

METHOD BLANK: 1661057 | Matrix: Tissue
Associated Lab Samples: 40151552001, 40151552002, 40151552003, 40151552004, 40151552005, 40151552006, 40151552007, 40151552008, 40151552009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/21/18 13:38	
Decachlorobiphenyl (S)	%	89	60-140		03/21/18 13:38	
Tetrachloro-m-xylene (S)	%	75	60-140		03/21/18 13:38	

LABORATORY CONTROL SAMPLE: 1661058

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	225	90	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)	%			90	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1661059

Parameter	Units	40150291002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<21.3		<21.5			
PCB-1221 (Aroclor 1221)	ug/kg	<21.3		<21.5			
PCB-1232 (Aroclor 1232)	ug/kg	<21.3		<21.5			
PCB-1242 (Aroclor 1242)	ug/kg	<21.3	471	531	113	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	149		463			
PCB-1254 (Aroclor 1254)	ug/kg	116		165			
PCB-1260 (Aroclor 1260)	ug/kg	51.9J		54.6J			
Decachlorobiphenyl (S)	%				90	60-140	
Tetrachloro-m-xylene (S)	%				82	60-140	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

SAMPLE DUPLICATE: 1661060

Parameter	Units	40150291002 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<21.3	<21.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<21.3	<21.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<21.3	<21.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<21.3	<21.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	149	135	10	40	
PCB-1254 (Aroclor 1254)	ug/kg	116	105	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	51.9J	47.2J		40	
Decachlorobiphenyl (S)	%	88	88	0		
Tetrachloro-m-xylene (S)	%	83	76	8		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

QC Batch: 283977 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151552011

METHOD BLANK: 1662163 | Matrix: Tissue
Associated Lab Samples: 40151552011

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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

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.: 40151552

QC Batch: 283118 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151552010

METHOD BLANK: 1658258 | Matrix: Tissue
Associated Lab Samples: 40151552010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/14/18 06:49	

MATRIX SPIKE SAMPLE: 1682499

Parameter	Units	40151552010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.5		1.6			

SAMPLE DUPLICATE: 1658259

Parameter	Units	40151552010 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.5	1.5	5	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

QC Batch: 283698 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151552001, 40151552002, 40151552003, 40151552004, 40151552005, 40151552006, 40151552007, 40151552008, 40151552009

METHOD BLANK: 1661068 | Matrix: Tissue
Associated Lab Samples: 40151552001, 40151552002, 40151552003, 40151552004, 40151552005, 40151552006, 40151552007, 40151552008, 40151552009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/20/18 06:24	

MATRIX SPIKE SAMPLE: 1682494

Parameter	Units	40150291002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.39		0.43			

SAMPLE DUPLICATE: 1661071

Parameter	Units	40150291002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.39	0.38	2	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

QC Batch: 284080 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151552011

METHOD BLANK: 1662744 | Matrix: Tissue
Associated Lab Samples: 40151552011

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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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Sample was re-analyzed due to incorrect dilution.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151552

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151552001	**TD5-170612-01-YP-10**	EPA 3541	283695	EPA 8082A Mod	283894
40151552002	**TD5-170612-01-YP-09**	EPA 3541	283695	EPA 8082A Mod	283894
40151552003	**TD5-170612-01-YP-08**	EPA 3541	283695	EPA 8082A Mod	283894
40151552004	**TD5-170612-01-YP-06**	EPA 3541	283695	EPA 8082A Mod	283894
40151552005	**TD5-170612-01-YP-05**	EPA 3541	283695	EPA 8082A Mod	283894
40151552006	**TD5-170612-01-YP-04**	EPA 3541	283695	EPA 8082A Mod	283894
40151552007	**TD5-170612-01-YP-03**	EPA 3541	283695	EPA 8082A Mod	283894
40151552008	**TD5-170612-01-YP-02**	EPA 3541	283695	EPA 8082A Mod	283894
40151552009	**TD5-170612-01-YP-01**	EPA 3541	283695	EPA 8082A Mod	283894
40151552010	**TD5-170612-01-BB-01**	EPA 3541	283116	EPA 8082A Mod	283254
40151552011	**TD3-170612-01-YP-01**	EPA 3541	283977	EPA 8082A Mod	284142
40151552001	**TD5-170612-01-YP-10**	Pace Gender Typing	282439		
40151552002	**TD5-170612-01-YP-09**	Pace Gender Typing	282439		
40151552003	**TD5-170612-01-YP-08**	Pace Gender Typing	282439		
40151552004	**TD5-170612-01-YP-06**	Pace Gender Typing	282439		
40151552005	**TD5-170612-01-YP-05**	Pace Gender Typing	282439		
40151552006	**TD5-170612-01-YP-04**	Pace Gender Typing	282439		
40151552007	**TD5-170612-01-YP-03**	Pace Gender Typing	282439		
40151552008	**TD5-170612-01-YP-02**	Pace Gender Typing	282439		
40151552009	**TD5-170612-01-YP-01**	Pace Gender Typing	282439		
40151552010	**TD5-170612-01-BB-01**	Pace Gender Typing	282439		
40151552011	**TD3-170612-01-YP-01**	Pace Gender Typing	282439		
40151552001	**TD5-170612-01-YP-10**	Pace Lipid	283698		
40151552002	**TD5-170612-01-YP-09**	Pace Lipid	283698		
40151552003	**TD5-170612-01-YP-08**	Pace Lipid	283698		
40151552004	**TD5-170612-01-YP-06**	Pace Lipid	283698		
40151552005	**TD5-170612-01-YP-05**	Pace Lipid	283698		
40151552006	**TD5-170612-01-YP-04**	Pace Lipid	283698		
40151552007	**TD5-170612-01-YP-03**	Pace Lipid	283698		
40151552008	**TD5-170612-01-YP-02**	Pace Lipid	283698		
40151552009	**TD5-170612-01-YP-01**	Pace Lipid	283698		
40151552010	**TD5-170612-01-BB-01**	Pace Lipid	283118		
40151552011	**TD3-170612-01-YP-01**	Pace Lipid	284080		

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BMV

40151552

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170612-T11-04
Sample Custodian: JER
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	TD5-170612-01	TD5-170612-01-YP-10	6/12/2017	15:52	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1 - Ziploc
002	002	TD5-170612-01	TD5-170612-01-YP-09	6/12/2017	15:50	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	003	TD5-170612-01	TD5-170612-01-YP-08	6/12/2017	15:48	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	004	TD5-170612-01	TD5-170612-01-YP-06	6/12/2017	15:45	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	005	TD5-170612-01	TD5-170612-01-YP-05	6/12/2017	15:43	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	006	TD5-170612-01	TD5-170612-01-YP-04	6/12/2017	15:41	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	007	TD5-170612-01	TD5-170612-01-YP-03	6/12/2017	15:39	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	008	TD5-170612-01	TD5-170612-01-YP-02	6/12/2017	15:37	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	009	TD5-170612-01	TD5-170612-01-YP-01	6/12/2017	15:35	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	010	TD5-170612-01	TD5-170612-01-BB-01	6/12/2017	15:12	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name Allee Hon	Print Name	Print Name	Print Name	Print Name
Company FedEx	Company Pace	Company	Company	Company	Company
Date/Time	Date/Time 6/13/17 0930	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/12/2017 * 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: COC170612-T11-04
Sample Custodian: JER
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	TD4-170612-01	TD4-170612-01-YP-05	6/12/2017	16:24	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	TD3-170612-01	TD3-170612-01-YP-01	6/12/2017	16:10	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc
013	TD2-170612-01	TD2-170612-01-SMB-03	6/12/2017	13:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	TD2-170612-01	TD2-170612-01-SMB-02	6/12/2017	13:21	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	TD1-170612-01	TD1-170612-01-SMB-03	6/12/2017	12:47	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	TD1-170612-01	TD1-170612-01-SMB-02	6/12/2017	12:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

011

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 Fedex	Company Pace	Company	Company	Company	Company
Date/Time	Date/Time 6/13/17 0930	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/12/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 2 of 2***

Pace Analytical

Sample Condition Upon Receipt

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

Project #: WO#: 40151552
40151552

Client Name: Anchor

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

Tracking #: 779380651290

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 SR68 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0 **Biological Tissue is Frozen:** ☐ yes ☑ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 6-13-17
Initials: SKW

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

		Comments:
Chain of Custody Present:	☐Yes ☑No ☐N/A	1. printed off date 6/13/17
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: Only one cooler of 3 received 6-13-17 SKW

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): 40151552
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at 0°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):** Sample TD5-170612-01-BB-01 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:3 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to the parent result on the final report. Batch MSs were also analyzed with this SDG.

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

F. Sample Duplicate: Sample TD5-170612-01-BB-01 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions: Samples TD5-170612-01-BB-01 and TD3-170612-01-YP-01 were analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.

H. Reanalysis: None required for this SDG.

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: 05/08/18

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.: 40151552 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1658254	1658254BLANK	83	76
1658255	1658255LCS	92	85
1658256	1658256MS	95	89
1658257	1658257DUP	101	92
40151552010	TD5-170612-01-BB-01	101	93

	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.: 40151552 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1661057	1661057BLANK	89	75
1661058	1661058LCS	90	78
40151552001	TD5-170612-01-YP-10	85	81
40151552002	TD5-170612-01-YP-09	92	89
40151552003	TD5-170612-01-YP-08	87	77
40151552004	TD5-170612-01-YP-06	94	87
40151552005	TD5-170612-01-YP-05	92	90
40151552006	TD5-170612-01-YP-04	86	77
40151552007	TD5-170612-01-YP-03	84	77
40151552008	TD5-170612-01-YP-02	90	87
40151552009	TD5-170612-01-YP-01	94	84

	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.: 40151552 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662163	1662163BLANK	91	77
1662164	1662164LCS	91	78
40151552011	TD3-170612-01-YP-01	102	88

	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: 03/13/2018

Instrument: 40GCSJ

Lab File ID: 031418.B\031418007.D

Lab Sample ID: 1658255LCS

Date Analyzed (1): 03/14/2018

LCS Lot No: 182336

SDG No.: 40151552

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	232	93	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: 03/20/2018

Instrument: 40GCSJ

Lab File ID: 032118.B\032118007.D

Lab Sample ID: 1661058LCS

Date Analyzed (1): 03/21/2018

LCS Lot No: 182336

SDG No.: 40151552

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	225	90	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: 03/22/2018

Instrument: 40GCSJ

Lab File ID: 032318.B\032318007.D

Lab Sample ID: 1662164LCS

Date Analyzed (1): 03/23/2018

LCS Lot No: 182336

SDG No.: 40151552

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 SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/13/2018

Instrument: 40GCSJ

Parent Sample ID: TD5-170612-01-BB-01

Matrix Spike - Sample No: 1658256MS

Date Analyzed (1): 03/14/2018

Lab File ID: 031418.B\031418008.D

SDG No.: 40151552

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<34.3	354	142	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: 03/20/2018

Instrument: 40GCSJ

Parent Sample ID: 40150291002

Matrix Spike - Sample No: 1661059MS

Date Analyzed (1): 03/21/2018

Lab File ID: 032118.B\032118008.D

SDG No.: 40151552

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	471	<21.3	531	113	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.: 40151552

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 SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/13/2018

Instrument 40GCSJ

Lab Sample ID: TD5-170612-01-BB-01

Duplicate Sample No: 40151552010DUP

Date Analyzed: 03/14/2018

Lab File ID: 031418.B\031418020.D

SDG No.: 40151552

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<34.3	<34.2		0-40
PCB-1221 (Aroclor 1221)	<34.3	<34.2		0-40
PCB-1232 (Aroclor 1232)	<34.3	<34.2		0-40
PCB-1242 (Aroclor 1242)	<34.3	<34.2		0-40
PCB-1248 (Aroclor 1248)	795	853	7	0-40
PCB-1254 (Aroclor 1254)	589	628	6	0-40
PCB-1260 (Aroclor 1260)	284	299	5	0-40

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/20/2018

Instrument 40GCSJ

Lab Sample ID: 40150291002

Duplicate Sample No: 40150291002DUP

Date Analyzed: 03/21/2018

Lab File ID: 032118.B\032118011.D

SDG No.: 40151552

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<21.3	<21.4		0-40
PCB-1221 (Aroclor 1221)	<21.3	<21.4		0-40
PCB-1232 (Aroclor 1232)	<21.3	<21.4		0-40
PCB-1242 (Aroclor 1242)	<21.3	<21.4		0-40
PCB-1248 (Aroclor 1248)	149	135	10	0-40
PCB-1254 (Aroclor 1254)	116	105	10	0-40
PCB-1260 (Aroclor 1260)	51.9J	47.2J		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: 03/22/2018

Instrument 40GCSJ

Lab Sample ID: 40151619002

Duplicate Sample No: 40151619002DUP

Date Analyzed: 03/23/2018

Lab File ID: 032318.B\032318019.D

SDG No.: 40151552

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.

SAMPLE NO.

1658254BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151552 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1658254

Lab File ID: 031418.B\031418006.D Date Analyzed: 03/14/2018 Time:13:44

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1658255LCS	1658255	031418.B\031418007.D	03/14/2018 14:00
1658256MS	1658256	031418.B\031418008.D	03/14/2018 14:15
TD5-170612-01-BB-01	40151552010	031418.B\031418019.D	03/14/2018 17:10
1658257DUP	1658257	031418.B\031418020.D	03/14/2018 17:26

SAMPLE NO.

1661057BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151552 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1661057

Lab File ID: 032118.B\032118006.D Date Analyzed: 03/21/2018 Time:13:38

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1661058LCS	1661058	032118.B\032118007.D	03/21/2018 13:54
1661060DUP	1661060	032118.B\032118011.D	03/21/2018 14:58
TD5-170612-01-YP-10	40151552001	032118.B\032118023.D	03/21/2018 18:08
TD5-170612-01-YP-09	40151552002	032118.B\032118024.D	03/21/2018 18:24
TD5-170612-01-YP-08	40151552003	032118.B\032118025.D	03/21/2018 18:40
TD5-170612-01-YP-06	40151552004	032118.B\032118026.D	03/21/2018 18:55
TD5-170612-01-YP-05	40151552005	032118.B\032118027.D	03/21/2018 19:11
TD5-170612-01-YP-04	40151552006	032118.B\032118030.D	03/21/2018 19:59
TD5-170612-01-YP-03	40151552007	032118.B\032118031.D	03/21/2018 20:14
TD5-170612-01-YP-02	40151552008	032118.B\032118032.D	03/21/2018 20:30
TD5-170612-01-YP-01	40151552009	032118.B\032118033.D	03/21/2018 20:46

SAMPLE NO.

1662163BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151552 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
TD3-170612-01-YP-01	40151552011	032318.B\032318009.D	03/23/2018 14:45
1662166DUP	1662166	032318.B\032318019.D	03/23/2018 17:23

SAMPLE NO.

TD5-170612-01-YP-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552001
Date Analyzed: 03/21/2018 18:08
Lab File ID: 032118.B\032118023.D
Initial wt/vol: 9.9913 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)	105	
11097-69-1	PCB-1254 (Aroclor 1254)	66.5	
11096-82-5	PCB-1260 (Aroclor 1260)	11.9	J
1336-36-3	PCB, Total	183	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118023.D
Lab Smp Id: 40151552001 Client Smp ID: TD5-170612-01-YP-10
Inj Date : 21-MAR-2018 18:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552001,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	9.991	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	13950	10503	0.753	0.03		
2.200	106090	58141	0.548	0.26		
2.410	72813	58856	0.808	0.18		
2.485	10016004	9827731	0.981	25.27	$ 2 Tetrachloro-m-xylene	
2.789	30746	25177	0.819	0.07		
2.852	57096	39528	0.692	0.14		
2.921	10692	10464	0.979	0.02		
2.981	51375	21484	0.418	0.12		
3.020	36205	37187	1.027	0.08		
3.054	74068	65330	0.882	0.18		
3.317	71537	72080	1.008	0.17		
3.343	89274	80024	0.896	0.22		
3.433	93413	94749	1.014	0.23		
3.520	127213	116942	0.919	0.31		
3.648	15636	14746	0.943	0.03		
3.731	107374	108708	1.012	0.26		
3.755	74922	70430	0.940	0.18		
3.826	893422	628934	0.704	2.21		
3.887	17057	10569	0.620	0.04		
3.938	117451	71624	0.610	0.29		
3.994	157935	145626	0.922	0.39		
4.058	72584	61514	0.847	0.17		
4.215	705695	659220	0.934	1.74		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	678734	650562	0.958	1.68	6 Aroclor 1248
4.291	672642	553715	0.823	1.66	
4.349	19597	14666	0.748	0.04	
4.416	436380	405029	0.928	1.08	
4.452	304606	268107	0.880	0.75	
4.545	610567	568615	0.931	1.51	6 Aroclor 1248
4.589	45996	42605	0.926	0.11	
4.617	109374	90388	0.826	0.27	
4.678	75682	38394	0.507	0.18	
4.733	71580	40359	0.564	0.17	
4.766	114509	102691	0.897	0.28	
4.812	499474	471728	0.944	1.23	6 Aroclor 1248
4.847	454489	443184	0.975	1.12	
4.879	1185853	762696	0.643	2.93	6 Aroclor 1248
4.956	178494	137995	0.773	0.44	
5.036	455824	399766	0.877	1.12	6 Aroclor 1248
5.100	356310	289379	0.812	0.88	
5.161	687848	628329	0.913	1.70	7 Aroclor 1254
5.212	586240	500903	0.854	1.45	
5.284	67948	59764	0.880	0.16	
5.309	115491	94163	0.815	0.28	
5.363	278673	234427	0.841	0.69	
5.406	463843	407964	0.880	1.14	7 Aroclor 1254
5.447	505203	425335	0.842	1.25	
5.479	33763	51950	1.539	0.08	
5.509	967722	820925	0.848	2.39	7 Aroclor 1254
5.572	58471	40620	0.695	0.14	
5.603	151270	118336	0.782	0.37	
5.674	170091	143878	0.846	0.42	
5.711	135685	97204	0.716	0.33	
5.740	193297	142112	0.735	0.47	
5.790	1226527	940347	0.767	3.03	
5.887	129679	75878	0.585	0.32	
5.931	82945	54985	0.663	0.20	
5.993	215904	170512	0.790	0.53	
6.023	597830	521059	0.872	1.48	7 Aroclor 1254
6.055	744997	622552	0.836	1.84	
6.168	206709	131521	0.636	0.51	
6.226	88879	90585	1.019	0.22	
6.239	138346	100008	0.723	0.34	
6.298	1155993	950343	0.822	2.86	7 Aroclor 1254
6.333	146092	121576	0.832	0.36	
6.373	113808	62719	0.551	0.28	
6.433	124767	59838	0.480	0.30	
6.510	199962	181053	0.905	0.49	
6.535	312281	261275	0.837	0.77	
6.560	62441	73913	1.184	0.15	
6.607	51646	30635	0.593	0.12	
6.662	39562	24855	0.628	0.09	
6.719	110578	74094	0.670	0.27	
6.756	109033	78454	0.720	0.27	
6.801	171335	132543	0.774	0.42	
6.841	87415	47670	0.545	0.21	
6.903	32241	24913	0.773	0.07	
6.942	90058	64335	0.714	0.22	
7.004	197330	176918	0.897	0.48	8 Aroclor 1260
7.075	7570	11073	1.463	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.123	22135	18146	0.820	0.05	
7.250	147336	114269	0.776	0.36	8 Aroclor 1260
7.281	74279	47380	0.638	0.18	
7.338	29655	18919	0.638	0.07	
7.389	51742	41737	0.807	0.12	
7.442	72460	56657	0.782	0.17	8 Aroclor 1260
7.577	13448	11011	0.819	0.03	
7.693	20266	19724	0.973	0.05	
7.725	57914	44175	0.763	0.14	
7.801	28482	18178	0.638	0.07	
7.875	16587	15543	0.937	0.04	
7.899	52621	37860	0.719	0.13	8 Aroclor 1260
8.047	35816	21876	0.611	0.08	
8.170	13590	8965	0.660	0.03	
8.273	89750	84587	0.942	0.22	
8.324	11461	9466	0.826	0.02	
8.379	19945	18582	0.932	0.04	
8.462	17323	10422	0.602	0.04	
8.569	9293205	7802273	0.840	23.01	$ 12 Decachlorobiphenyl
8.870	12474	9912	0.795	0.03	
8.939	25072	19605	0.782	0.06	
9.046	9615	6779	0.705	0.02	
9.169	18528	14511	0.783	0.04	
9.464	47542	28335	0.596	0.11	
9.956	58128	37530	0.646	0.14	
	40381511	34935452		100.000	

Total unknown % area = 32

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118023.D
Lab Smp Id: 40151552001 Client Smp ID: TD5-170612-01-YP-10
Inj Date : 21-MAR-2018 18:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552001,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	9.991	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	10016003	0.08124	41			

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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	678734	0.28969	140	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	610567	0.14711	74	0.00- 20.00	89.96	BA
4.812	4.812	0.000	499473	0.24604	120	0.00- 20.00	73.59	BA
4.878	4.879	-0.001	1185852	0.23541	120	0.00- 20.00	174.72	BA
5.036	5.038	-0.002	455824	0.12702	64	0.00- 20.00	67.16	BA
Average of Peak Concentrations =					100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	687848	0.13139	66	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	463842	0.10784	54	0.00- 20.00	67.43	BA
5.508	5.510	-0.002	967721	0.12461	62	0.00- 20.00	140.69	BA
6.023	6.027	-0.004	597829	0.12277	61	0.00- 20.00	86.91	BA
6.298	6.299	-0.001	1155992	0.17765	89	0.00- 20.00	168.06	BA
Average of Peak Concentrations =					66			
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	197330	0.01970	9.9	0.00- 20.00	17.07	BA
7.250	7.251	-0.001	147336	0.03082	15	0.00- 20.00	12.75	BA
7.442	7.443	-0.001	72459	0.02486	12	0.00- 20.00	6.27	BA
7.899	7.901	-0.002	52620	0.01994	10	0.00- 20.00	4.55	BA
Average of Peak Concentrations =					12			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9293205	0.08482	42			

QC Flag Legend

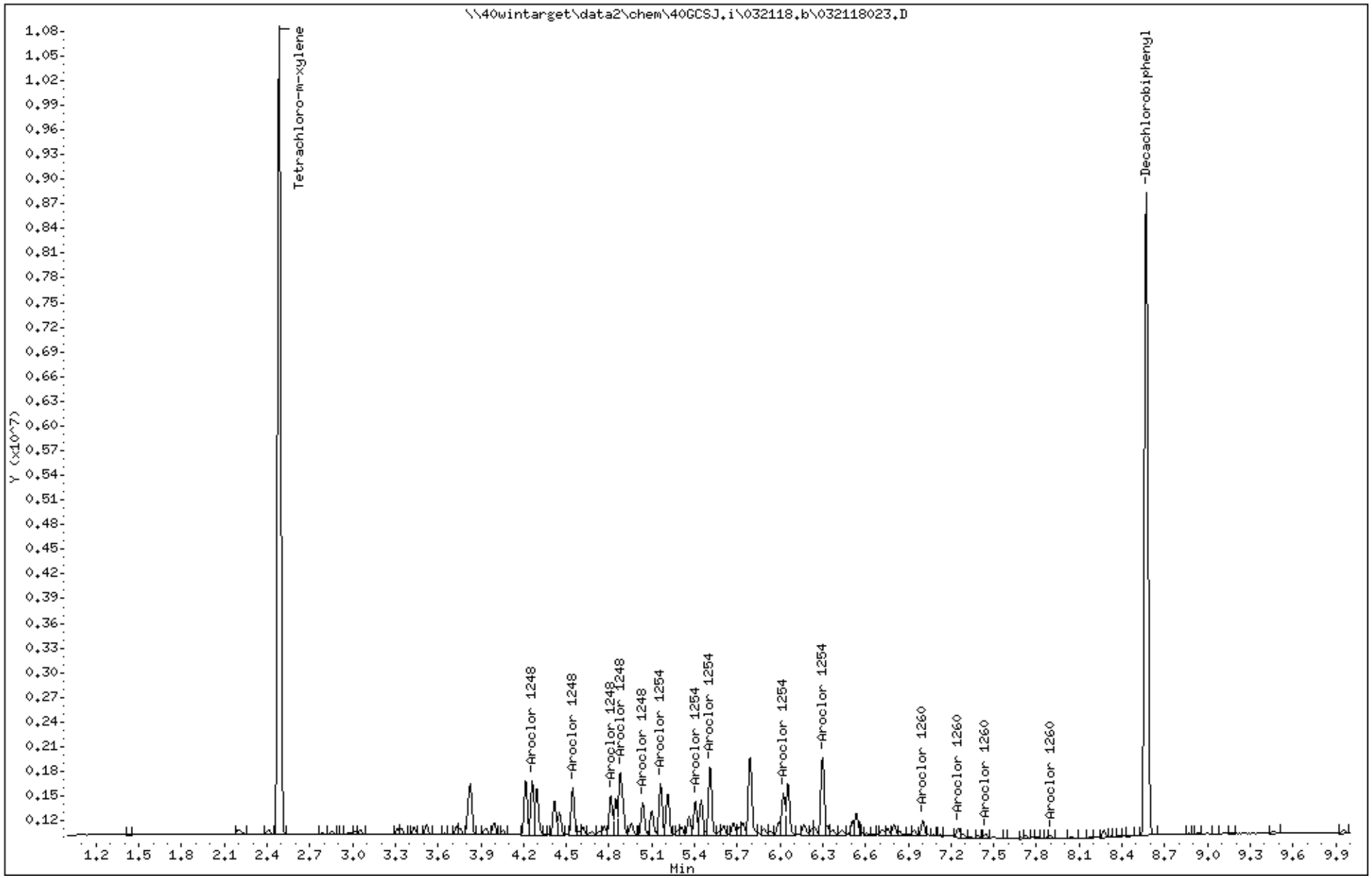
M - Compound response manually integrated.

Review Codes Legend

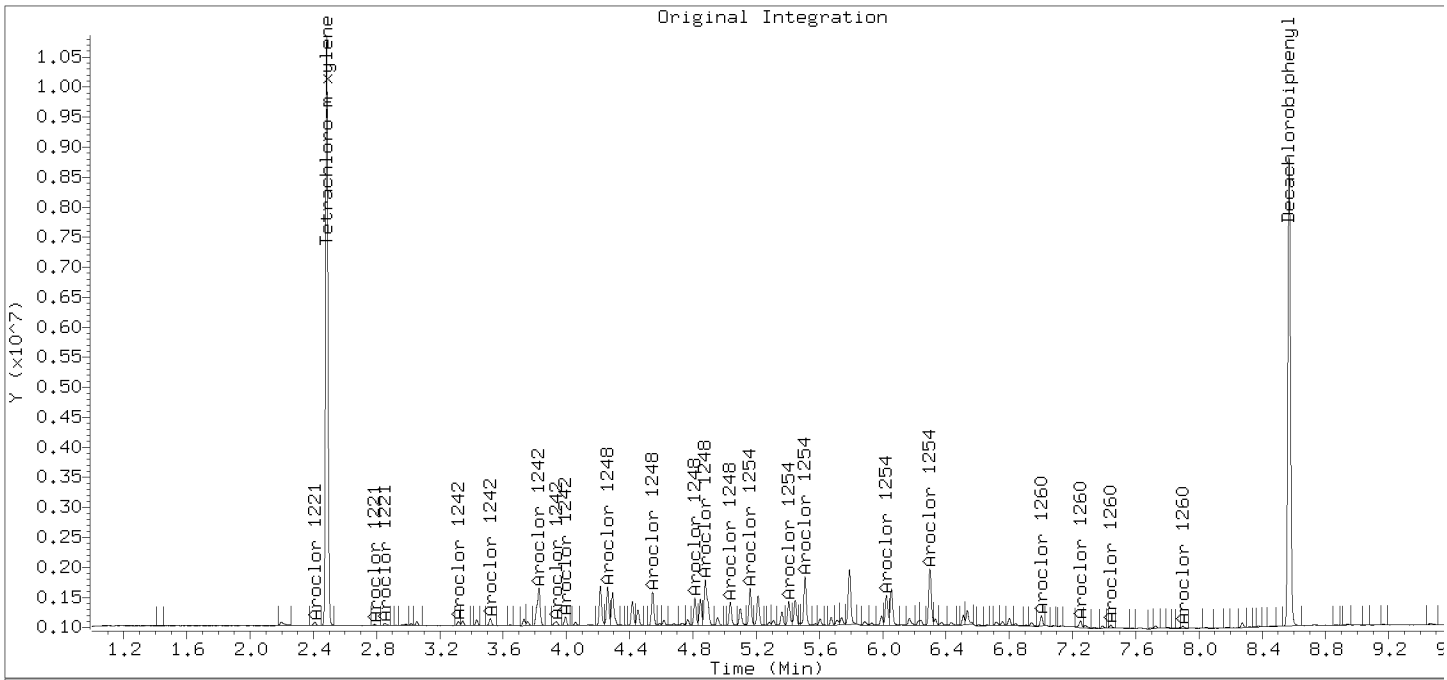
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

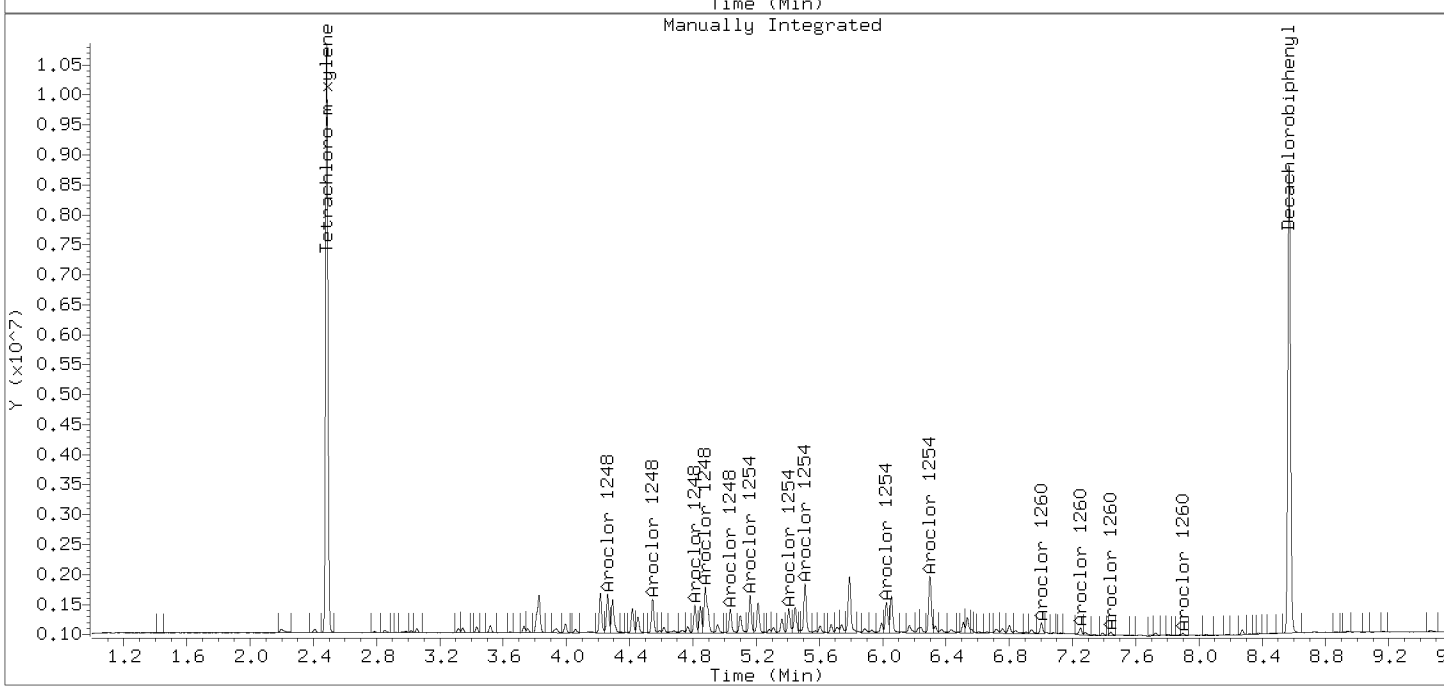
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118023.D
Date : 21-MAR-2018 18:08
Client ID: TD5-170612-01-YP-10
Sample Info: 40151552001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 18:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	71536	0	
Aroclor 1016	71536	0	
Aroclor 1016	71536	0	
Aroclor 1016	71536	0	
Aroclor 1016	71536	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	57096	0	
Aroclor 1232	57096	0	
Aroclor 1232	57096	0	
Aroclor 1232	57096	0	

Aroclor 1232	57096	0	
Aroclor 1242	71536	0	
Aroclor 1242	71536	0	
Aroclor 1242	71536	0	
Aroclor 1242	71536	0	
Aroclor 1242	71536	0	
Aroclor 1248	665131	678734	BA
Aroclor 1248	665131	678734	BA
Aroclor 1248	665131	678734	BA
Aroclor 1248	665131	678734	BA
Aroclor 1248	665131	678734	BA
Aroclor 1254	646034	687848	BA
Aroclor 1254	646034	687848	BA
Aroclor 1254	646034	687848	BA
Aroclor 1254	646034	687848	BA
Aroclor 1254	646034	687848	BA
Aroclor 1260	1107515	0	BA
Aroclor 1260	1107515	0	BA
Aroclor 1260	1107515	0	BA
Aroclor 1260	1107515	0	BA
Aroclor 1260	1107515	0	BA
Tetrachloro-m-xylene	10016003	10016003	
Decachlorobiphenyl	9293205	9293205	

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SAMPLE NO.

TD5-170612-01-YP-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552002
Date Analyzed: 03/21/2018 18:24
Lab File ID: 032118.B\032118024.D
Initial wt/vol: 10.0248 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)	164	
11097-69-1	PCB-1254 (Aroclor 1254)	101	
11096-82-5	PCB-1260 (Aroclor 1260)	25.9	J
1336-36-3	PCB, Total	292	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118024.D
Lab Smp Id: 40151552002 Client Smp ID: TD5-170612-01-YP-09
Inj Date : 21-MAR-2018 18:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552002,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.039	12344	8176	0.662	0.02		
1.066	10318	9023	0.874	0.01		
1.094	11017	9382	0.852	0.02		
1.157	10722	10840	1.011	0.02		
1.184	10396	11231	1.080	0.01		
1.429	10052	10604	1.055	0.01		
1.537	10093	9342	0.926	0.01		
1.959	10689	7248	0.678	0.01		
2.198	156535	84897	0.542	0.29		
2.289	14570	10963	0.752	0.02		
2.409	88310	76511	0.866	0.16		
2.484	10930019	10637473	0.973	20.97	$ 2 Tetrachloro-m-xylene	
2.787	36850	25375	0.689	0.06		
2.852	65658	44483	0.677	0.12		
2.922	11819	10597	0.897	0.02		
2.975	11318	11860	1.048	0.02		
3.019	38094	37236	0.977	0.07		
3.055	86774	80400	0.927	0.16		
3.316	78099	72955	0.934	0.14		
3.344	87119	83547	0.959	0.16		
3.433	172279	166133	0.964	0.32		
3.518	158079	134311	0.850	0.29		
3.644	32042	26816	0.837	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.731	171282	169167	0.988	0.32	
3.755	61444	61613	1.003	0.11	
3.814	284207	363144	1.278	0.53	
3.826	427196	396647	0.928	0.79	
3.938	194780	152876	0.785	0.36	
3.992	150821	140955	0.935	0.28	
4.058	84626	72328	0.855	0.15	
4.137	21766	17143	0.788	0.04	
4.214	1320618	1202977	0.911	2.46	
4.261	1271765	1216284	0.956	2.37	6 Aroclor 1248
4.292	1688664	1413999	0.837	3.15	
4.416	417304	386933	0.927	0.77	
4.452	380816	345266	0.907	0.71	
4.545	937160	892647	0.953	1.75	6 Aroclor 1248
4.589	156457	143610	0.918	0.29	
4.617	91798	82405	0.898	0.17	
4.680	142122	122473	0.862	0.26	
4.736	167652	131996	0.787	0.31	
4.768	240411	225903	0.940	0.44	
4.812	719070	692357	0.963	1.34	6 Aroclor 1248
4.847	499526	474317	0.950	0.93	
4.878	1819595	1037744	0.570	3.39	6 Aroclor 1248
4.957	399076	337615	0.846	0.74	
5.036	583739	532720	0.913	1.09	6 Aroclor 1248
5.100	801280	705912	0.881	1.49	
5.160	1161876	994965	0.856	2.17	7 Aroclor 1254
5.211	1017113	924794	0.909	1.90	
5.282	135283	137399	1.016	0.25	
5.306	257029	210069	0.817	0.48	
5.362	347199	305384	0.880	0.64	
5.406	775245	707196	0.912	1.44	7 Aroclor 1254
5.446	665199	533317	0.802	1.24	
5.477	101648	94295	0.928	0.18	
5.509	1359160	1206857	0.888	2.53	7 Aroclor 1254
5.574	96124	79669	0.829	0.17	
5.603	196874	160802	0.817	0.36	
5.674	469375	433915	0.924	0.87	
5.710	226421	180185	0.796	0.42	
5.741	333995	245451	0.735	0.62	
5.790	1796902	1399180	0.779	3.35	
5.885	211055	155364	0.736	0.39	
5.930	213313	165212	0.775	0.39	
5.993	400952	339169	0.846	0.74	
6.024	801862	712755	0.889	1.49	7 Aroclor 1254
6.054	1146705	1001729	0.874	2.14	
6.126	32574	18239	0.560	0.06	
6.168	267979	163052	0.608	0.50	
6.226	107181	114532	1.069	0.20	
6.241	181595	138635	0.763	0.33	
6.299	1789695	1463685	0.818	3.34	7 Aroclor 1254
6.332	166188	149276	0.898	0.31	
6.372	106818	67141	0.629	0.19	
6.430	231330	176668	0.764	0.43	
6.507	478800	414439	0.866	0.89	
6.534	346253	312844	0.904	0.64	
6.559	133317	114478	0.859	0.24	
6.605	64284	43495	0.677	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.658	39697	29619	0.746	0.07	
6.716	145845	104299	0.715	0.27	
6.757	184592	152599	0.827	0.34	
6.799	222496	189125	0.850	0.41	
6.837	108340	76810	0.709	0.20	
6.912	23368	20140	0.862	0.04	
6.941	123458	111737	0.905	0.23	
7.003	392148	344253	0.878	0.73	8 Aroclor 1260
7.034	38763	37438	0.966	0.07	
7.077	24167	13283	0.550	0.04	
7.124	31222	17875	0.573	0.05	
7.250	245154	206238	0.841	0.45	8 Aroclor 1260
7.280	99973	71293	0.713	0.18	
7.334	27127	20961	0.773	0.05	
7.388	135510	124648	0.920	0.25	
7.442	184677	144748	0.784	0.34	8 Aroclor 1260
7.583	11979	11973	1.000	0.02	
7.623	16867	10137	0.601	0.03	
7.660	7265	8676	1.194	0.01	
7.690	47204	44354	0.940	0.08	
7.727	67392	54084	0.803	0.12	
7.771	16032	11896	0.742	0.02	
7.799	45579	24007	0.527	0.08	
7.899	142971	122237	0.855	0.26	8 Aroclor 1260
7.961	24878	14612	0.587	0.04	
8.050	21713	20296	0.935	0.04	
8.273	160013	140666	0.879	0.29	
8.378	27422	20846	0.760	0.05	
8.570	10046866	8749416	0.871	18.77	$ 12 Decachlorobiphenyl
8.734	13967	8058	0.577	0.02	
8.939	34449	19520	0.567	0.06	
9.165	31923	24523	0.768	0.05	
9.465	33288	22884	0.687	0.06	
9.959	36559	26099	0.714	0.06	
	53518615	47061975		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118024.D
Lab Smp Id: 40151552002 Client Smp ID: TD5-170612-01-YP-09
Inj Date : 21-MAR-2018 18:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552002,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	10.025	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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	10930018	0.08865	44			

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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			
4.260	4.261	-0.001	1271765	0.54280	270	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	937159	0.22580	110	0.00- 20.00	73.69	BA
4.812	4.812	0.000	719069	0.35421	180	0.00- 20.00	56.54	BA
4.878	4.879	-0.001	1819595	0.36121	180	0.00- 20.00	143.08	BA
5.036	5.038	-0.002	583738	0.16267	81	0.00- 20.00	45.90	BA
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1161875	0.22193	110	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	775244	0.18025	90	0.00- 20.00	66.72	BA
5.508	5.510	-0.002	1359159	0.17501	87	0.00- 20.00	116.98	BA
6.024	6.027	-0.003	801862	0.16466	82	0.00- 20.00	69.01	BA
6.299	6.299	0.000	1789695	0.27504	140	0.00- 20.00	154.04	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
7.003	7.006	-0.003	392147	0.03916	20	0.00- 20.00	21.91	BA
7.249	7.251	-0.002	245153	0.05129	26	0.00- 20.00	13.70	BA
7.441	7.443	-0.002	184676	0.06335	32	0.00- 20.00	10.32	BA
7.899	7.901	-0.002	142971	0.05418	27	0.00- 20.00	7.99	BA
Average of Peak Concentrations =					26			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10046865	0.09170	46			

QC Flag Legend

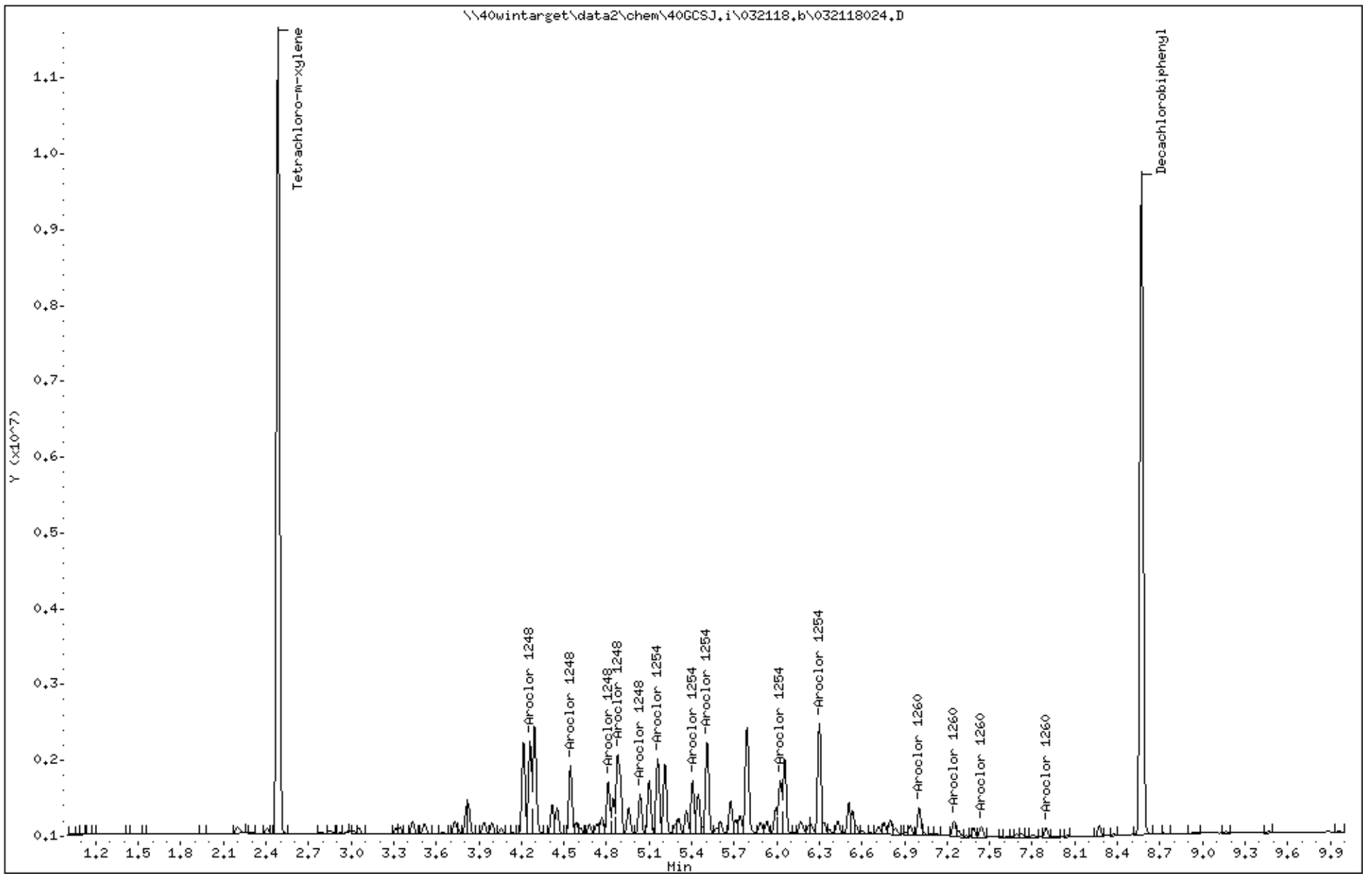
M - Compound response manually integrated.

Review Codes Legend

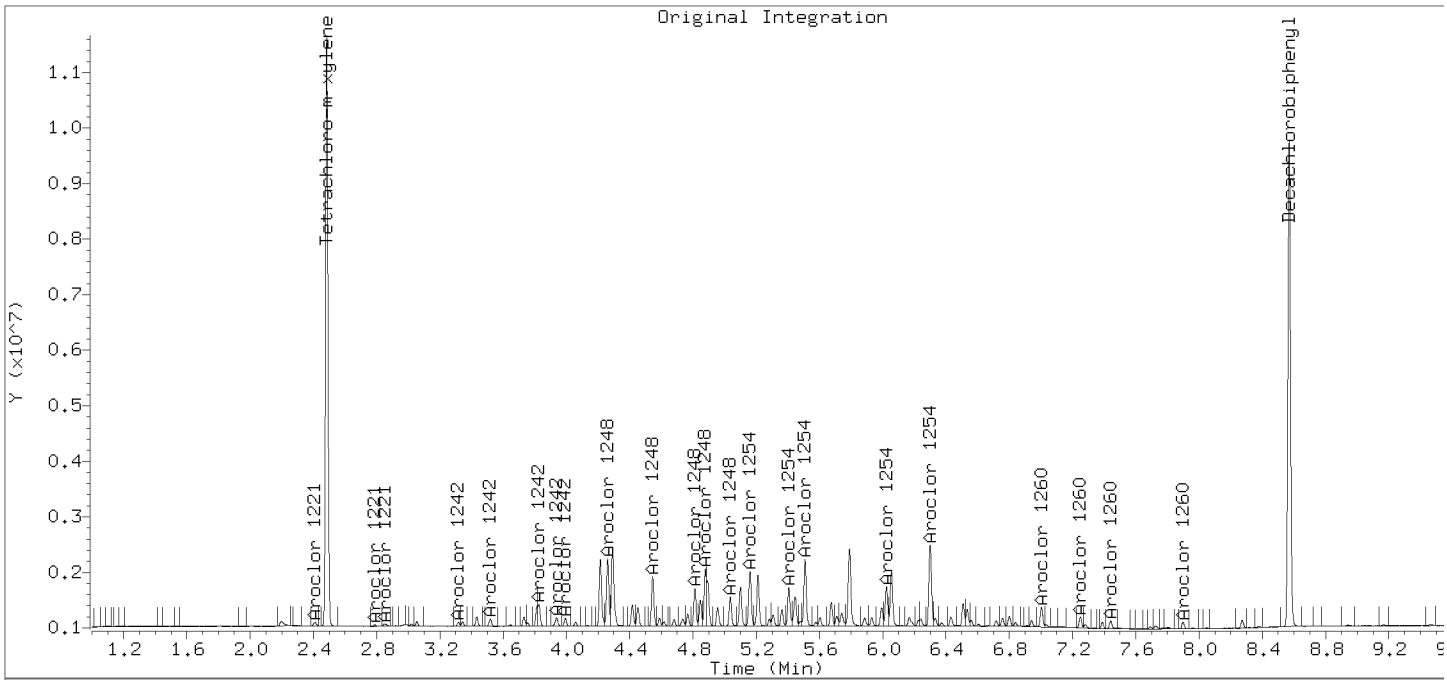
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

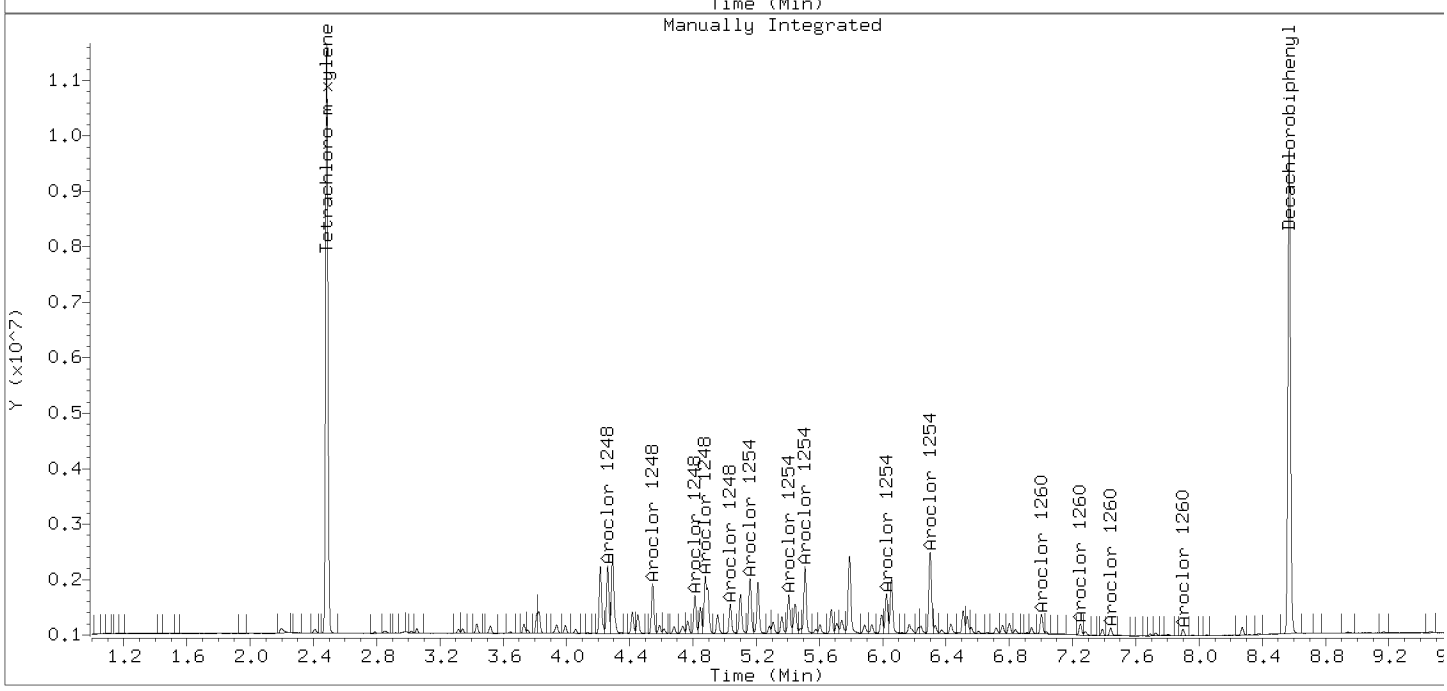
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118024.D
Date : 21-MAR-2018 18:24
Client ID: TD5-170612-01-YP-09
Sample Info: 40151552002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 18:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	78098	0	
Aroclor 1016	78098	0	
Aroclor 1016	78098	0	
Aroclor 1016	78098	0	
Aroclor 1016	78098	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	65657	0	
Aroclor 1232	65657	0	
Aroclor 1232	65657	0	
Aroclor 1232	65657	0	

Aroclor 1232	65657	0	
Aroclor 1242	78098	0	
Aroclor 1242	78098	0	
Aroclor 1242	78098	0	
Aroclor 1242	78098	0	
Aroclor 1242	78098	0	
Aroclor 1248	1255484	1271765	BA
Aroclor 1248	1255484	1271765	BA
Aroclor 1248	1255484	1271765	BA
Aroclor 1248	1255484	1271765	BA
Aroclor 1248	1255484	1271765	BA
Aroclor 1254	1140219	1161875	BA
Aroclor 1254	1140219	1161875	BA
Aroclor 1254	1140219	1161875	BA
Aroclor 1254	1140219	1161875	BA
Aroclor 1254	1140219	1161875	BA
Aroclor 1260	1762984	0	BA
Aroclor 1260	1762984	0	BA
Aroclor 1260	1762984	0	BA
Aroclor 1260	1762984	0	BA
Aroclor 1260	1762984	0	BA
Tetrachloro-m-xylene	10930018	10930018	
Decachlorobiphenyl	10046865	10046865	

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SAMPLE NO.

TD5-170612-01-YP-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552003
Date Analyzed: 03/21/2018 18:40
Lab File ID: 032118.B\032118025.D
Initial wt/vol: 10.015 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)	201	
11097-69-1	PCB-1254 (Aroclor 1254)	127	
11096-82-5	PCB-1260 (Aroclor 1260)	28.5	J
1336-36-3	PCB, Total	357	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118025.D
Lab Smp Id: 40151552003 Client Smp ID: TD5-170612-01-YP-08
Inj Date : 21-MAR-2018 18:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552003,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.015	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	12218	8520	0.697	0.02		
1.157	13065	10393	0.795	0.02		
1.184	20800	10859	0.522	0.03		
1.427	9468	8304	0.877	0.01		
1.543	10345	10503	1.015	0.01		
2.200	105185	49470	0.470	0.18		
2.411	107560	80692	0.750	0.18		
2.485	9445426	8851698	0.937	16.42	$ 2 Tetrachloro-m-xylene	
2.788	26740	24030	0.899	0.04		
2.855	55587	38031	0.684	0.09		
2.919	9458	10164	1.075	0.01		
3.019	31114	36355	1.168	0.05		
3.055	90993	85744	0.942	0.15		
3.319	77584	71816	0.926	0.13		
3.345	86315	77007	0.892	0.15		
3.399	11411	8218	0.720	0.01		
3.434	143386	129137	0.901	0.24		
3.519	175489	161354	0.919	0.30		
3.647	27133	20848	0.768	0.04		
3.732	195236	195276	1.000	0.33		
3.756	82359	78965	0.959	0.14		
3.827	974670	594797	0.610	1.69		
3.937	113707	81054	0.713	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	177541	165415	0.932	0.30	
4.059	82896	63921	0.771	0.14	
4.136	26579	15292	0.575	0.04	
4.214	1506938	1350504	0.896	2.62	
4.261	1550802	1481368	0.955	2.69	6 Aroclor 1248
4.292	1757214	1507989	0.858	3.05	
4.417	518911	489266	0.943	0.90	
4.453	451825	411167	0.910	0.78	
4.545	1053261	994073	0.944	1.83	6 Aroclor 1248
4.588	132037	122681	0.929	0.22	
4.617	136762	112371	0.822	0.23	
4.681	125453	106389	0.848	0.21	
4.737	154517	116192	0.752	0.26	
4.767	236705	220251	0.930	0.41	
4.812	973032	936102	0.962	1.69	6 Aroclor 1248
4.848	705782	682129	0.966	1.22	
4.878	2182165	1317805	0.604	3.79	6 Aroclor 1248
4.957	427997	375581	0.878	0.74	
5.037	675975	629521	0.931	1.17	6 Aroclor 1248
5.101	837505	742548	0.887	1.45	
5.160	1468956	1291272	0.879	2.55	7 Aroclor 1254
5.212	1311443	1149956	0.877	2.28	
5.284	158011	147681	0.935	0.27	
5.308	237475	198059	0.834	0.41	
5.362	425912	388656	0.913	0.74	
5.406	937891	839637	0.895	1.63	7 Aroclor 1254
5.447	920589	786194	0.854	1.60	
5.479	112889	110835	0.982	0.19	
5.509	1697698	1527277	0.900	2.95	7 Aroclor 1254
5.577	99859	82236	0.824	0.17	
5.602	238246	190154	0.798	0.41	
5.675	451008	413830	0.918	0.78	
5.710	263647	201906	0.766	0.45	
5.741	399110	307054	0.769	0.69	
5.790	2308455	1804805	0.782	4.01	
5.885	239672	166757	0.696	0.41	
5.931	201668	159219	0.790	0.35	
5.993	442331	396142	0.896	0.76	
6.024	1032655	908940	0.880	1.79	7 Aroclor 1254
6.055	1538945	1332555	0.866	2.67	
6.169	325219	205575	0.632	0.56	
6.228	137755	145753	1.058	0.23	
6.242	230866	185092	0.802	0.40	
6.299	2246693	1850226	0.824	3.90	7 Aroclor 1254
6.332	219899	193496	0.880	0.38	
6.371	114271	80588	0.705	0.19	
6.431	242691	176803	0.729	0.42	
6.483	25946	26145	1.008	0.04	
6.509	498767	448880	0.900	0.86	
6.534	497373	441566	0.888	0.86	
6.561	159398	140944	0.884	0.27	
6.603	90404	64973	0.719	0.15	
6.658	52670	39031	0.741	0.09	
6.717	169008	129067	0.764	0.29	
6.756	220210	181826	0.826	0.38	
6.800	283317	246472	0.870	0.49	
6.837	138604	91065	0.657	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.909	28172	24500	0.870	0.04	
6.942	164206	141654	0.863	0.28	
7.003	471745	445009	0.943	0.82	8 Aroclor 1260
7.034	45538	44728	0.982	0.07	
7.077	20407	13901	0.681	0.03	
7.121	22435	18860	0.841	0.03	
7.248	294427	256784	0.872	0.51	8 Aroclor 1260
7.281	121243	85623	0.706	0.21	
7.336	29858	20965	0.702	0.05	
7.388	158810	139158	0.876	0.27	
7.440	191335	155815	0.814	0.33	8 Aroclor 1260
7.491	27869	12868	0.462	0.04	
7.547	12872	12850	0.998	0.02	
7.582	11212	13121	1.170	0.01	
7.618	21260	12120	0.570	0.03	
7.659	7911	8488	1.073	0.01	
7.689	45590	46758	1.026	0.07	
7.726	70110	54297	0.774	0.12	
7.803	46306	28953	0.625	0.08	
7.863	10360	8769	0.846	0.01	
7.898	143062	126594	0.885	0.24	8 Aroclor 1260
7.958	24721	14364	0.581	0.04	
8.048	29998	23791	0.793	0.05	
8.273	152997	136856	0.894	0.26	
8.376	9832	10331	1.051	0.01	
8.570	9557852	8231506	0.861	17.18	$ 12 Decachlorobiphenyl
8.727	14970	9396	0.628	0.02	
9.167	43225	34387	0.796	0.07	
9.468	22879	13632	0.596	0.03	
9.959	26500	15503	0.585	0.04	
	57506400	49696048		100.000	

Total unknown % area = 40

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118025.D
Lab Smp Id: 40151552003 Client Smp ID: TD5-170612-01-YP-08
Inj Date : 21-MAR-2018 18:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552003,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.015	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	9445425	0.07661	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	1550802	0.66189	330	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1053260	0.25378	130	0.00- 20.00	67.92	BA
4.812	4.812	0.000	973032	0.47931	240	0.00- 20.00	62.74	BA
4.878	4.879	-0.001	2182165	0.43319	220	0.00- 20.00	140.71	BA
5.037	5.038	-0.001	675974	0.18837	94	0.00- 20.00	43.59	BA
Average of Peak Concentrations =					200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1468956	0.28059	140	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	937891	0.21806	110	0.00- 20.00	63.85	BA
5.509	5.510	-0.001	1697698	0.21860	110	0.00- 20.00	115.57	BA
6.023	6.027	-0.004	1032655	0.21206	100	0.00- 20.00	70.30	BA
6.298	6.299	-0.001	2246693	0.34527	170	0.00- 20.00	152.94	BA
Average of Peak Concentrations =					130			
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	471745	0.04711	24	0.00- 20.00	21.00	BA
7.248	7.251	-0.003	294426	0.06160	31	0.00- 20.00	13.10	BA
7.440	7.443	-0.003	191335	0.06564	33	0.00- 20.00	8.52	BA
7.897	7.901	-0.004	143062	0.05422	27	0.00- 20.00	6.37	BA
Average of Peak Concentrations =					28			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9557851	0.08724	44			

QC Flag Legend

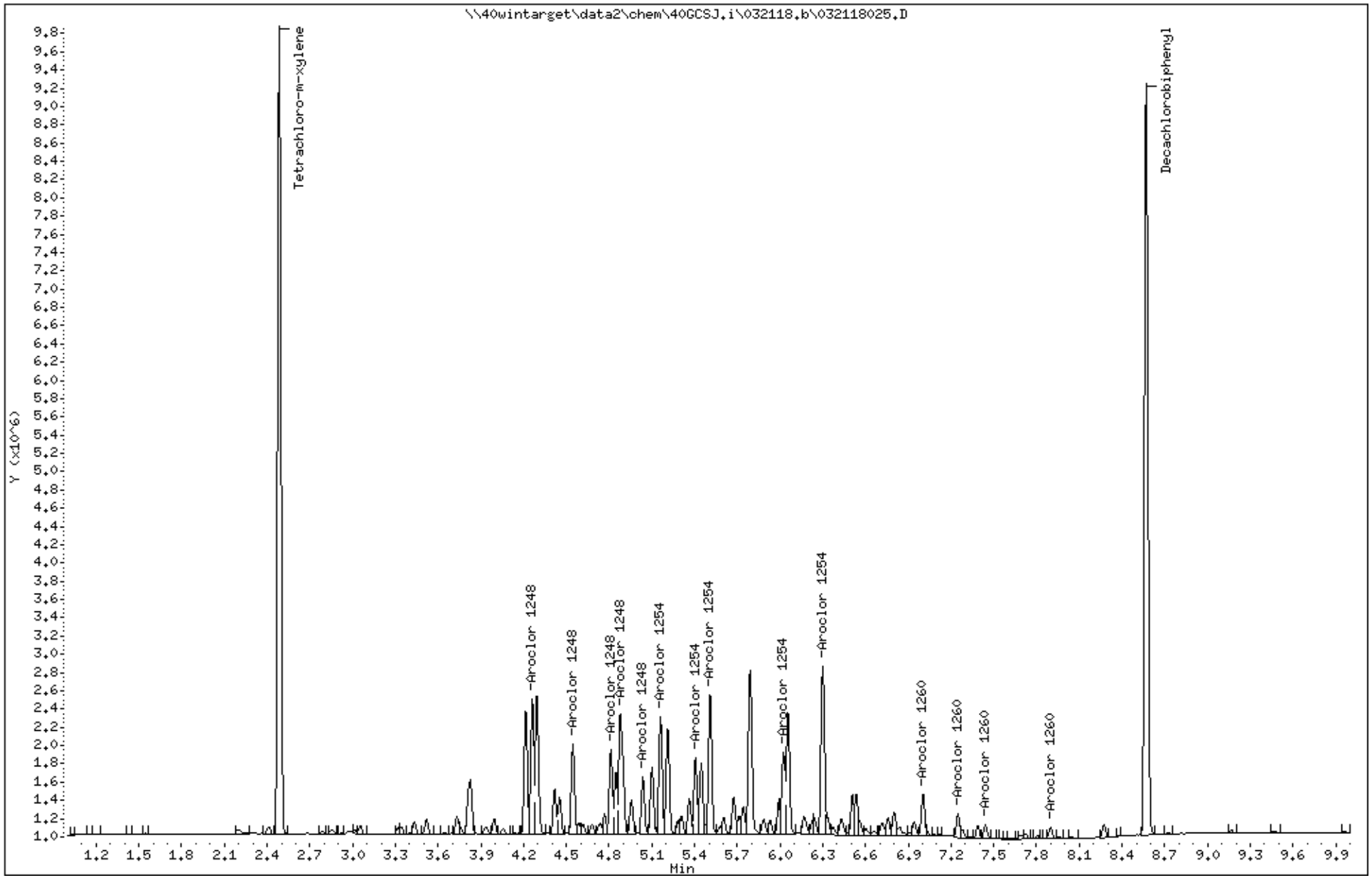
M - Compound response manually integrated.

Review Codes Legend

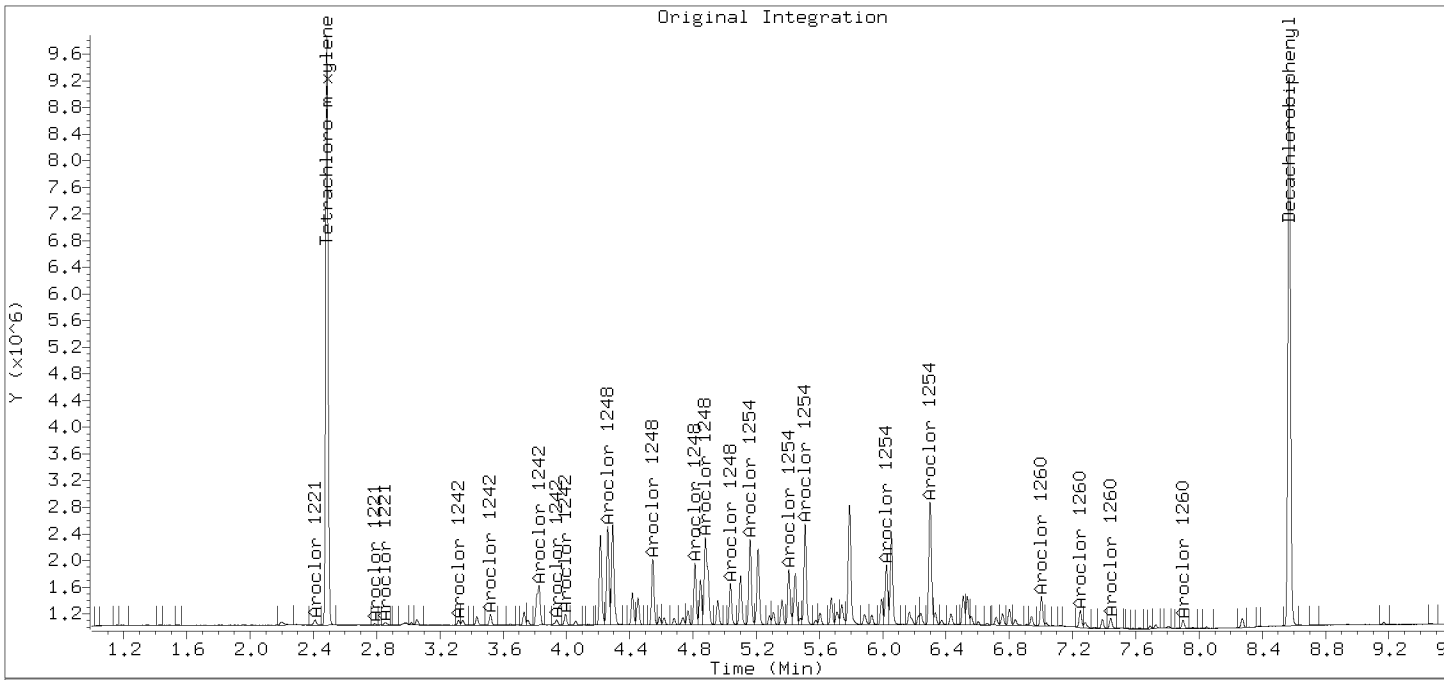
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

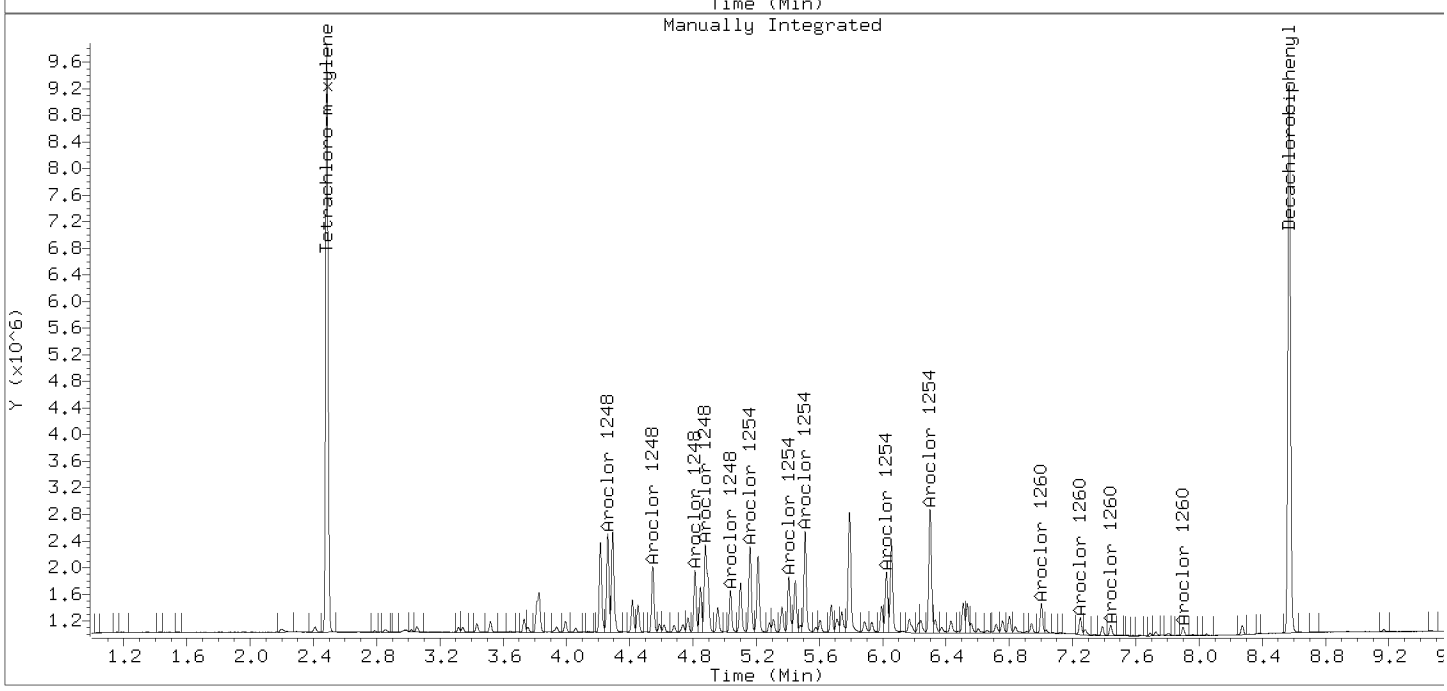
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118025.D
Date : 21-MAR-2018 18:40
Client ID: TD5-170612-01-YP-08
Sample Info: 40151552003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 18:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	77583	0	
Aroclor 1016	77583	0	
Aroclor 1016	77583	0	
Aroclor 1016	77583	0	
Aroclor 1016	77583	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	55587	0	
Aroclor 1232	55587	0	
Aroclor 1232	55587	0	
Aroclor 1232	55587	0	

Aroclor 1232	55587	0	
Aroclor 1242	77583	0	
Aroclor 1242	77583	0	
Aroclor 1242	77583	0	
Aroclor 1242	77583	0	
Aroclor 1242	77583	0	
Aroclor 1248	1533285	1550802	BA
Aroclor 1248	1533285	1550802	BA
Aroclor 1248	1533285	1550802	BA
Aroclor 1248	1533285	1550802	BA
Aroclor 1248	1533285	1550802	BA
Aroclor 1254	1435825	1468956	BA
Aroclor 1254	1435825	1468956	BA
Aroclor 1254	1435825	1468956	BA
Aroclor 1254	1435825	1468956	BA
Aroclor 1254	1435825	1468956	BA
Aroclor 1260	2208278	0	BA
Aroclor 1260	2208278	0	BA
Aroclor 1260	2208278	0	BA
Aroclor 1260	2208278	0	BA
Aroclor 1260	2208278	0	BA
Tetrachloro-m-xylene	9445425	9445425	
Decachlorobiphenyl	9557851	9557851	

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SAMPLE NO.

TD5-170612-01-YP-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552004
Date Analyzed: 03/21/2018 18:55
Lab File ID: 032118.B\032118026.D
Initial wt/vol: 9.9916 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)	101	
11097-69-1	PCB-1254 (Aroclor 1254)	72.5	
11096-82-5	PCB-1260 (Aroclor 1260)	19.0	J
1336-36-3	PCB, Total	192	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118026.D
Lab Smp Id: 40151552004 Client Smp ID: TD5-170612-01-YP-06
Inj Date : 21-MAR-2018 18:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552004,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.031	11887	8538	0.718	0.02		
1.188	26438	18704	0.707	0.06		
2.010	15604	9683	0.621	0.03		
2.198	126062	62605	0.497	0.30		
2.410	47395	36231	0.764	0.11		
2.485	10683254	10393135	0.973	26.26	$ 2 Tetrachloro-m-xylene	
2.785	25700	24153	0.940	0.06		
2.854	42927	28754	0.670	0.10		
2.915	16015	9898	0.618	0.03		
3.019	19639	19657	1.001	0.04		
3.055	29779	27865	0.936	0.07		
3.317	39834	36020	0.904	0.09		
3.343	39836	37438	0.940	0.09		
3.401	10127	10550	1.042	0.02		
3.432	53971	49184	0.911	0.13		
3.519	87023	73568	0.845	0.20		
3.646	11858	11802	0.995	0.02		
3.692	9354	9416	1.007	0.02		
3.731	112617	109220	0.970	0.27		
3.756	52403	51885	0.990	0.12		
3.826	500173	291930	0.584	1.20		
3.939	48166	30507	0.633	0.11		
3.992	80469	75328	0.936	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.056	42959	31556	0.735	0.10	
4.214	670398	621212	0.927	1.61	
4.261	633027	605509	0.957	1.52	6 Aroclor 1248
4.291	668959	594902	0.889	1.61	
4.417	294161	274716	0.934	0.70	
4.452	212379	203667	0.959	0.51	
4.545	461382	432389	0.937	1.11	6 Aroclor 1248
4.588	45936	40583	0.883	0.11	
4.616	71365	64052	0.898	0.17	
4.681	42489	36346	0.855	0.10	
4.736	55246	38542	0.698	0.13	
4.768	109778	102978	0.938	0.26	
4.812	516632	505800	0.979	1.24	6 Aroclor 1248
4.846	384690	360542	0.937	0.92	
4.878	1291814	853936	0.661	3.11	6 Aroclor 1248
4.957	186853	172011	0.921	0.45	
5.036	415962	390920	0.940	1.00	6 Aroclor 1248
5.100	408117	346508	0.849	0.98	
5.161	795181	693677	0.872	1.91	7 Aroclor 1254
5.211	676524	605852	0.896	1.63	
5.283	69764	64492	0.924	0.16	
5.307	117404	98929	0.843	0.28	
5.361	311253	271880	0.874	0.75	
5.405	519752	468077	0.901	1.25	7 Aroclor 1254
5.446	450392	373772	0.830	1.08	
5.477	53386	48574	0.910	0.12	
5.508	1043186	926767	0.888	2.51	7 Aroclor 1254
5.575	41372	32919	0.796	0.09	
5.603	153184	127299	0.831	0.36	
5.674	229581	206451	0.899	0.55	
5.709	145130	110218	0.759	0.35	
5.740	202178	156346	0.773	0.48	
5.789	1328382	1061736	0.799	3.20	
5.838	31343	26228	0.837	0.07	
5.886	130874	91295	0.698	0.31	
5.930	95849	69318	0.723	0.23	
5.992	210495	194087	0.922	0.50	
6.022	650782	571351	0.878	1.57	7 Aroclor 1254
6.054	751383	654888	0.872	1.81	
6.168	195187	129371	0.663	0.47	
6.227	151938	89486	0.589	0.36	
6.299	1193975	993993	0.833	2.88	7 Aroclor 1254
6.333	116148	100639	0.866	0.28	
6.371	73216	54203	0.740	0.17	
6.431	128469	85242	0.664	0.30	
6.508	394885	336306	0.852	0.95	
6.534	245929	229179	0.932	0.59	
6.559	86275	75874	0.879	0.20	
6.604	47362	33448	0.706	0.11	
6.661	36344	22879	0.630	0.08	
6.717	107809	86010	0.798	0.26	
6.757	113500	92921	0.819	0.27	
6.799	163432	141436	0.865	0.39	
6.840	83384	54171	0.650	0.20	
6.941	78269	65755	0.840	0.18	
7.003	260764	237692	0.912	0.62	8 Aroclor 1260
7.033	34493	32979	0.956	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.079	17601	10882	0.618	0.04	
7.123	31362	16815	0.536	0.07	
7.250	164681	144234	0.876	0.39	8 Aroclor 1260
7.279	71374	54696	0.766	0.17	
7.337	16882	14289	0.846	0.04	
7.387	109847	101093	0.920	0.26	
7.441	138207	115001	0.832	0.33	8 Aroclor 1260
7.579	12928	12737	0.985	0.03	
7.622	13332	8059	0.604	0.03	
7.692	33802	31514	0.932	0.08	
7.726	65605	54440	0.830	0.15	
7.800	38003	22441	0.591	0.09	
7.897	115571	94153	0.815	0.27	8 Aroclor 1260
8.048	15757	11878	0.754	0.03	
8.273	156369	145668	0.932	0.37	
8.375	19356	13551	0.700	0.04	
8.570	10251715	9187207	0.896	24.73	$ 12 Decachlorobiphenyl
8.937	14674	10237	0.698	0.03	
9.169	35497	28601	0.806	0.08	
	41444017	36895476		100.000	

Total unknown % area = 29

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118026.D
Lab Smp Id: 40151552004 Client Smp ID: TD5-170612-01-YP-06
Inj Date : 21-MAR-2018 18:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552004,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
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	9.992	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	10683254	0.08665	43			
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	633026	0.27018	140	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	461381	0.11117	56	0.00- 20.00	72.88	BA
4.811	4.812	-0.001	516632	0.25449	130	0.00- 20.00	81.61	BA
4.877	4.879	-0.002	1291813	0.25644	130	0.00- 20.00	204.07	BA
5.036	5.038	-0.002	415962	0.11591	58	0.00- 20.00	65.71	BA
Average of Peak Concentrations =					100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	795181	0.15189	76	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	519751	0.12084	60	0.00- 20.00	65.36	BA
5.508	5.510	-0.002	1043186	0.13433	67	0.00- 20.00	131.19	BA
6.022	6.027	-0.005	650782	0.13364	67	0.00- 20.00	81.84	BA
6.298	6.299	-0.001	1193974	0.18349	92	0.00- 20.00	150.15	BA
Average of Peak Concentrations =					72			
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	260763	0.02604	13	0.00- 20.00	21.84	BA
7.250	7.251	-0.001	164680	0.03445	17	0.00- 20.00	13.79	BA
7.440	7.443	-0.003	138207	0.04741	24	0.00- 20.00	11.58	BA
7.896	7.901	-0.005	115571	0.04380	22	0.00- 20.00	9.68	BA
Average of Peak Concentrations =					19			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10251714	0.09357	47			

QC Flag Legend

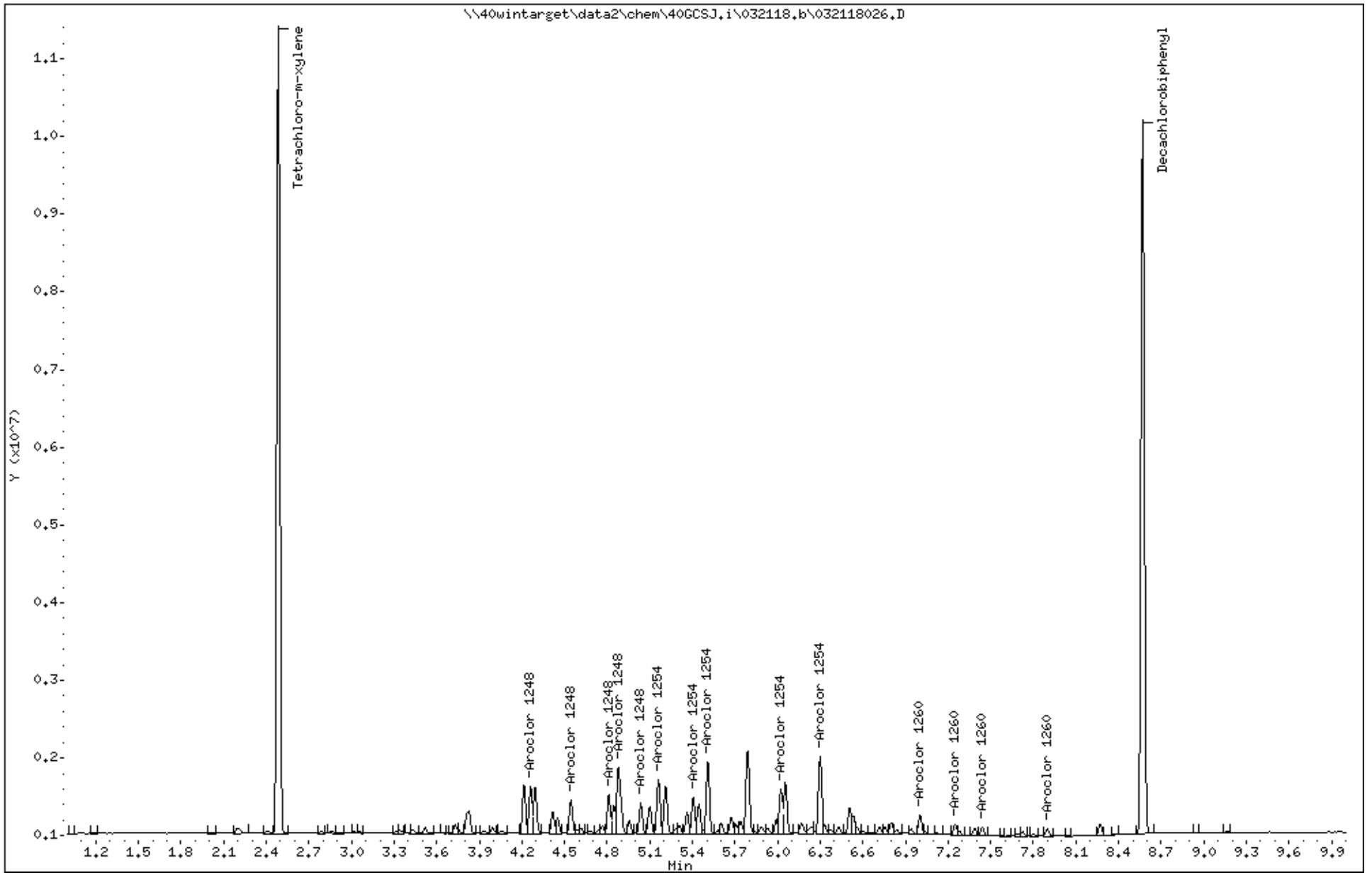
M - Compound response manually integrated.

Review Codes Legend

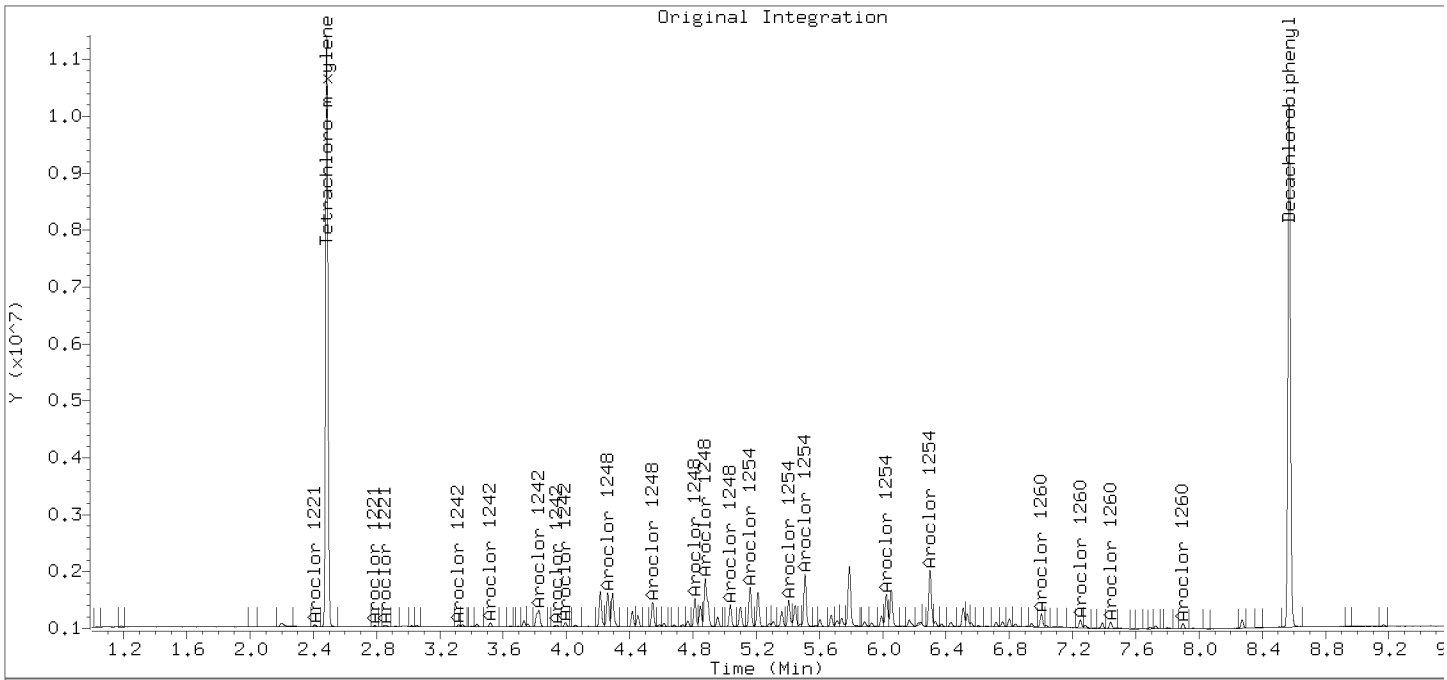
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

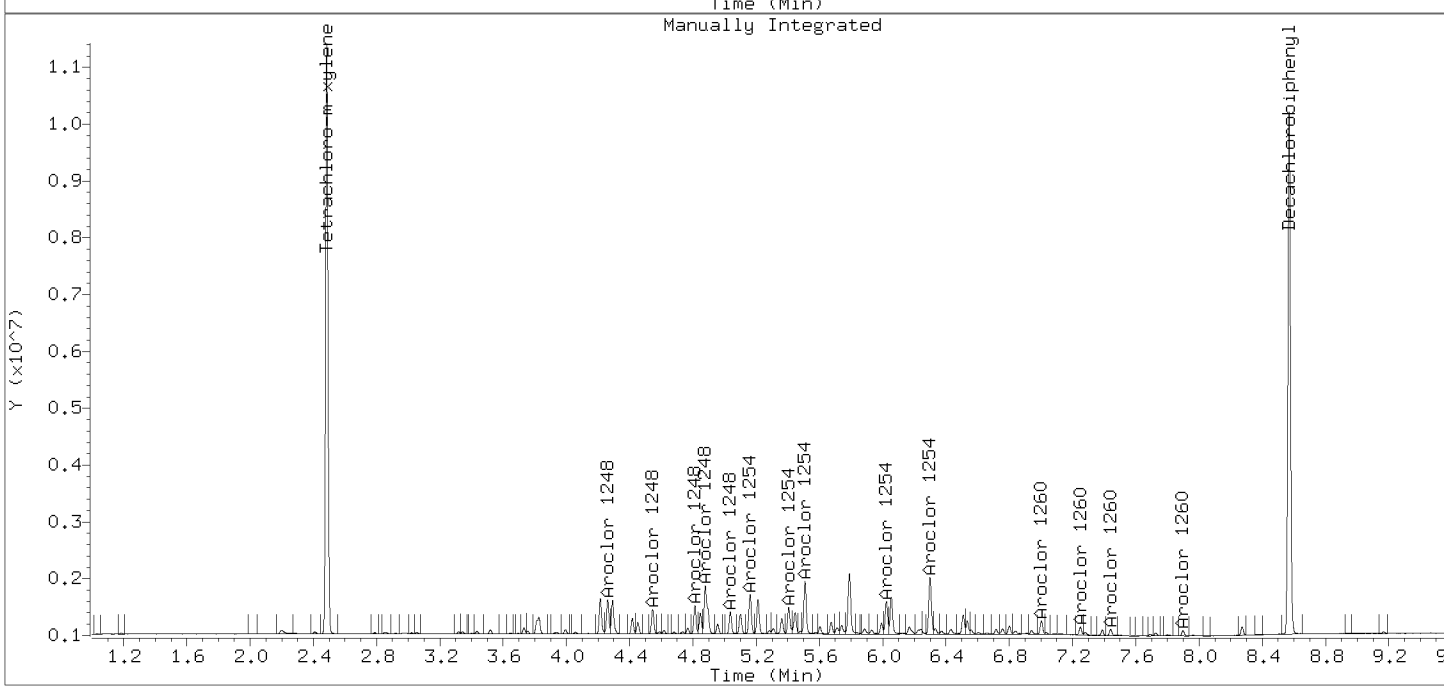
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118026.D
Date : 21-MAR-2018 18:55
Client ID: TD5-170612-01-YP-06
Sample Info: 40151552004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 18:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	39833	0	
Aroclor 1016	39833	0	
Aroclor 1016	39833	0	
Aroclor 1016	39833	0	
Aroclor 1016	39833	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	42926	0	
Aroclor 1232	42926	0	
Aroclor 1232	42926	0	
Aroclor 1232	42926	0	

Aroclor 1232	42926	0	
Aroclor 1242	39833	0	
Aroclor 1242	39833	0	
Aroclor 1242	39833	0	
Aroclor 1242	39833	0	
Aroclor 1242	39833	0	
Aroclor 1248	624711	633026	BA
Aroclor 1248	624711	633026	BA
Aroclor 1248	624711	633026	BA
Aroclor 1248	624711	633026	BA
Aroclor 1248	624711	633026	BA
Aroclor 1254	779565	795181	BA
Aroclor 1254	779565	795181	BA
Aroclor 1254	779565	795181	BA
Aroclor 1254	779565	795181	BA
Aroclor 1254	779565	795181	BA
Aroclor 1260	1168753	0	BA
Aroclor 1260	1168753	0	BA
Aroclor 1260	1168753	0	BA
Aroclor 1260	1168753	0	BA
Aroclor 1260	1168753	0	BA
Tetrachloro-m-xylene	10683254	10683254	
Decachlorobiphenyl	10251714	10251714	

==========

SAMPLE NO.

TD5-170612-01-YP-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552005
Date Analyzed: 03/21/2018 19:11
Lab File ID: 032118.B\032118027.D
Initial wt/vol: 9.9662 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)	152	
11097-69-1	PCB-1254 (Aroclor 1254)	87.6	
11096-82-5	PCB-1260 (Aroclor 1260)	21.9	J
1336-36-3	PCB, Total	262	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118027.D
Lab Smp Id: 40151552005 Client Smp ID: TD5-170612-01-YP-05
Inj Date : 21-MAR-2018 19:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552005,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	9.966	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.035	14499	10430	0.719	0.02		
1.077	9929	8435	0.850	0.02		
1.426	9818	8113	0.826	0.02		
1.536	11390	9489	0.833	0.02		
2.197	154260	74339	0.482	0.31		
2.410	65868	54040	0.820	0.13		
2.484	11054127	10905730	0.987	23.18	$ 2 Tetrachloro-m-xylene	
2.788	32036	26304	0.821	0.06		
2.854	50977	31516	0.618	0.10		
2.919	21509	11916	0.554	0.04		
2.974	49410	22827	0.462	0.10		
3.020	31714	28850	0.910	0.06		
3.055	53444	46164	0.864	0.10		
3.318	56159	51364	0.915	0.11		
3.343	56707	56005	0.988	0.11		
3.432	76337	72621	0.951	0.15		
3.518	123641	115096	0.931	0.25		
3.644	20280	18173	0.896	0.04		
3.732	200738	199439	0.994	0.41		
3.756	88021	85826	0.975	0.18		
3.813	369711	451810	1.222	0.75		
3.826	518318	497763	0.960	1.06		
3.937	76308	47109	0.617	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.992	128488	120498	0.938	0.26	
4.059	58788	46774	0.796	0.12	
4.134	16159	12265	0.759	0.03	
4.214	1208977	1097701	0.908	2.47	
4.261	1258165	1173216	0.932	2.57	6 Aroclor 1248
4.292	1325838	1190366	0.898	2.71	
4.417	353958	335442	0.948	0.72	
4.452	309795	283768	0.916	0.63	
4.544	753817	717036	0.951	1.54	6 Aroclor 1248
4.588	88540	83298	0.941	0.18	
4.616	108062	87673	0.811	0.22	
4.681	78581	67000	0.853	0.16	
4.734	96004	70335	0.733	0.19	
4.767	184988	176384	0.953	0.37	
4.812	725284	706712	0.974	1.48	6 Aroclor 1248
4.848	503667	489438	0.972	1.03	
4.878	1508925	983515	0.652	3.09	6 Aroclor 1248
4.956	285669	247155	0.865	0.58	
5.036	511683	471633	0.922	1.04	6 Aroclor 1248
5.101	544171	486574	0.894	1.11	
5.161	998877	861540	0.863	2.04	7 Aroclor 1254
5.212	900994	818952	0.909	1.84	
5.282	101640	98354	0.968	0.20	
5.309	153887	129190	0.840	0.31	
5.363	308960	271021	0.877	0.63	
5.406	641471	585541	0.913	1.31	7 Aroclor 1254
5.446	566065	474163	0.838	1.16	
5.478	81163	72463	0.893	0.16	
5.509	1103905	1002350	0.908	2.26	7 Aroclor 1254
5.575	64978	55311	0.851	0.13	
5.604	158143	129833	0.821	0.32	
5.675	275484	255411	0.927	0.56	
5.711	174669	132922	0.761	0.35	
5.741	279500	203478	0.728	0.57	
5.790	1577697	1231414	0.781	3.23	
5.887	168097	113908	0.678	0.34	
5.931	135697	103593	0.763	0.27	
5.993	303739	269379	0.887	0.62	
6.023	724348	662334	0.914	1.48	7 Aroclor 1254
6.055	1042579	915612	0.878	2.13	
6.167	232507	151640	0.652	0.47	
6.225	98496	107306	1.089	0.20	
6.241	165836	134057	0.808	0.33	
6.299	1578611	1305786	0.827	3.23	7 Aroclor 1254
6.333	149808	142428	0.951	0.30	
6.371	87146	63399	0.728	0.17	
6.431	170746	113725	0.666	0.34	
6.509	370742	322807	0.871	0.75	
6.534	350552	309510	0.883	0.71	
6.559	111426	100344	0.901	0.22	
6.604	59602	45488	0.763	0.12	
6.663	46914	26495	0.565	0.09	
6.717	135551	108622	0.801	0.27	
6.758	154453	128542	0.832	0.31	
6.801	230522	202162	0.877	0.47	
6.838	82058	66491	0.810	0.16	
6.909	20458	18278	0.893	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.941	115087	101860	0.885	0.23	
7.003	360772	330974	0.917	0.73	8 Aroclor 1260
7.033	38096	36701	0.963	0.07	
7.118	23469	17638	0.752	0.04	
7.250	213585	197172	0.923	0.43	8 Aroclor 1260
7.279	92769	69690	0.751	0.19	
7.339	22786	16776	0.736	0.04	
7.389	126006	115562	0.917	0.25	
7.440	144461	117321	0.812	0.29	8 Aroclor 1260
7.551	10747	12686	1.180	0.02	
7.581	11610	10678	0.920	0.02	
7.617	20913	11994	0.574	0.04	
7.663	8922	10811	1.212	0.01	
7.691	37510	35302	0.941	0.07	
7.726	61461	51185	0.833	0.12	
7.804	34860	22911	0.657	0.07	
7.899	117749	96386	0.819	0.24	8 Aroclor 1260
7.964	25344	12664	0.500	0.05	
8.049	19638	16577	0.844	0.04	
8.273	145550	132299	0.909	0.29	
8.378	14998	12993	0.866	0.03	
8.569	10108818	8938616	0.884	20.71	$ 12 Decachlorobiphenyl
9.167	32278	28094	0.870	0.06	
	48789507	43810881		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118027.D
Lab Smp Id: 40151552005 Client Smp ID: TD5-170612-01-YP-05
Inj Date : 21-MAR-2018 19:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552005,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	9.966	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	11054126	0.08966	45			
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	1258164	0.53699	270	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	753816	0.18163	91	0.00- 20.00	59.91	BA
4.811	4.812	-0.001	725283	0.35727	180	0.00- 20.00	57.65	BA
4.878	4.879	-0.001	1508925	0.29954	150	0.00- 20.00	119.93	BA
5.036	5.038	-0.002	511682	0.14259	72	0.00- 20.00	40.67	BA
Average of Peak Concentrations =					150			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	998876	0.19080	96	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	641471	0.14914	75	0.00- 20.00	64.22	BA
5.508	5.510	-0.002	1103904	0.14214	71	0.00- 20.00	110.51	BA
6.022	6.027	-0.005	724347	0.14875	75	0.00- 20.00	72.52	BA
6.298	6.299	-0.001	1578610	0.24260	120	0.00- 20.00	158.04	BA
Average of Peak Concentrations =					88			
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	360771	0.03603	18	0.00- 20.00	22.85	BA
7.249	7.251	-0.002	213584	0.04468	22	0.00- 20.00	13.53	BA
7.440	7.443	-0.003	144460	0.04956	25	0.00- 20.00	9.15	BA
7.898	7.901	-0.003	117748	0.04462	22	0.00- 20.00	7.46	BA
Average of Peak Concentrations =					22			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10108818	0.09227	46			

QC Flag Legend

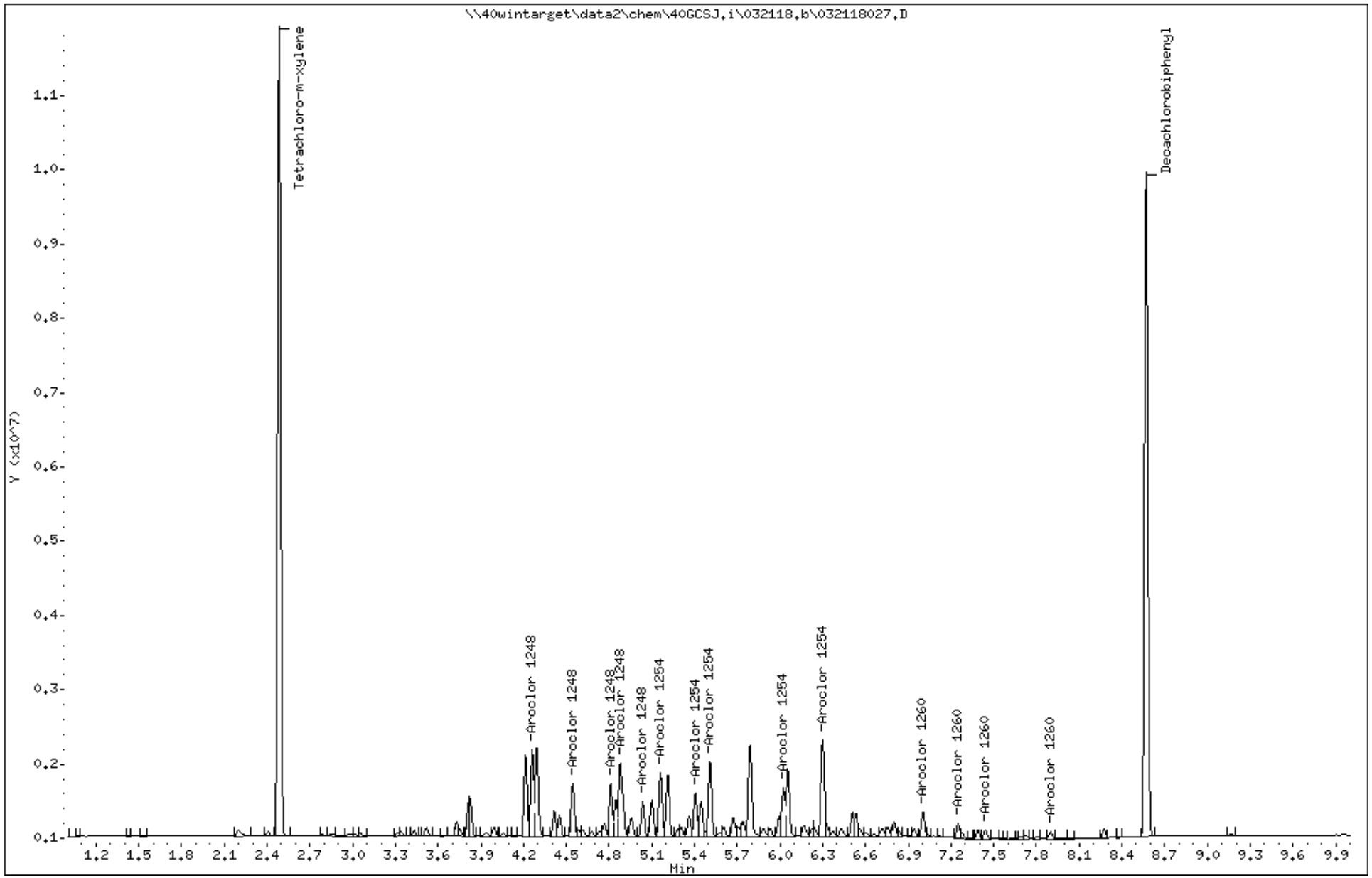
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118027.D
Date : 21-MAR-2018 19:11
Client ID: TD5-170612-01-YP-05
Sample Info: 40151552005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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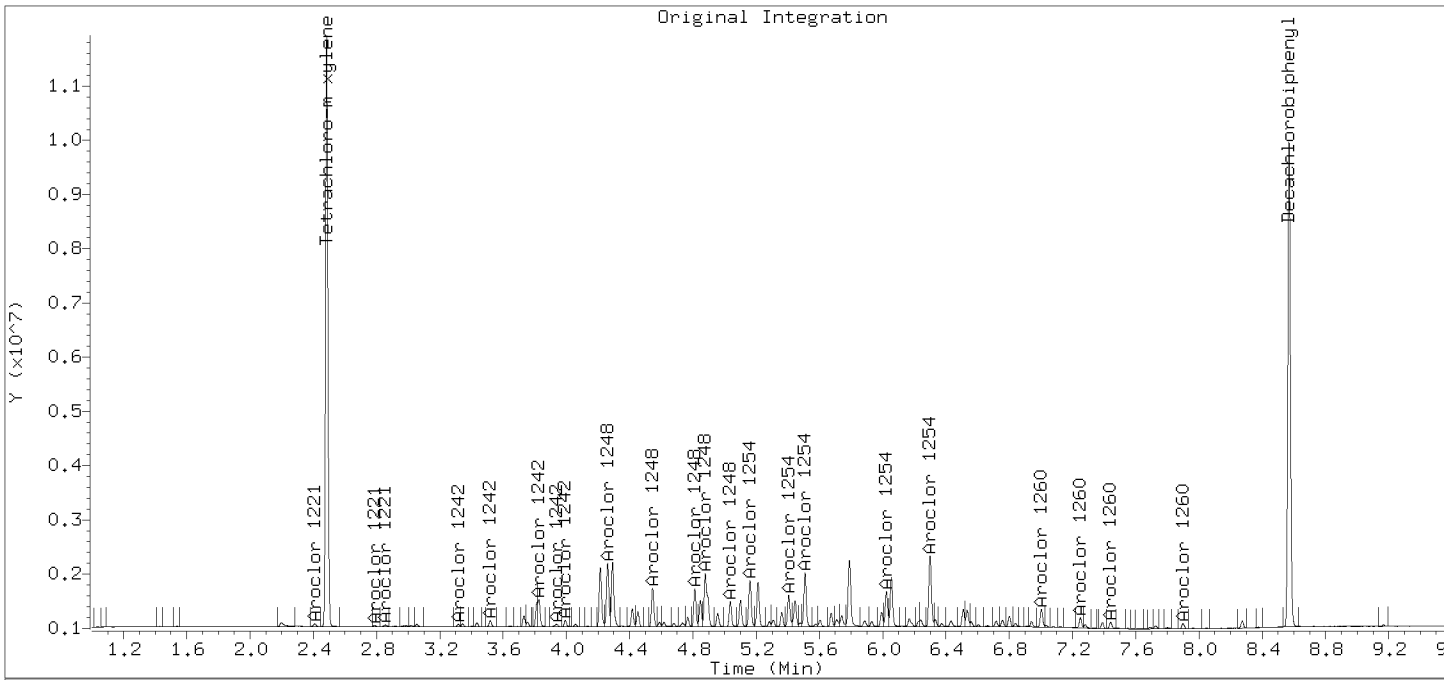
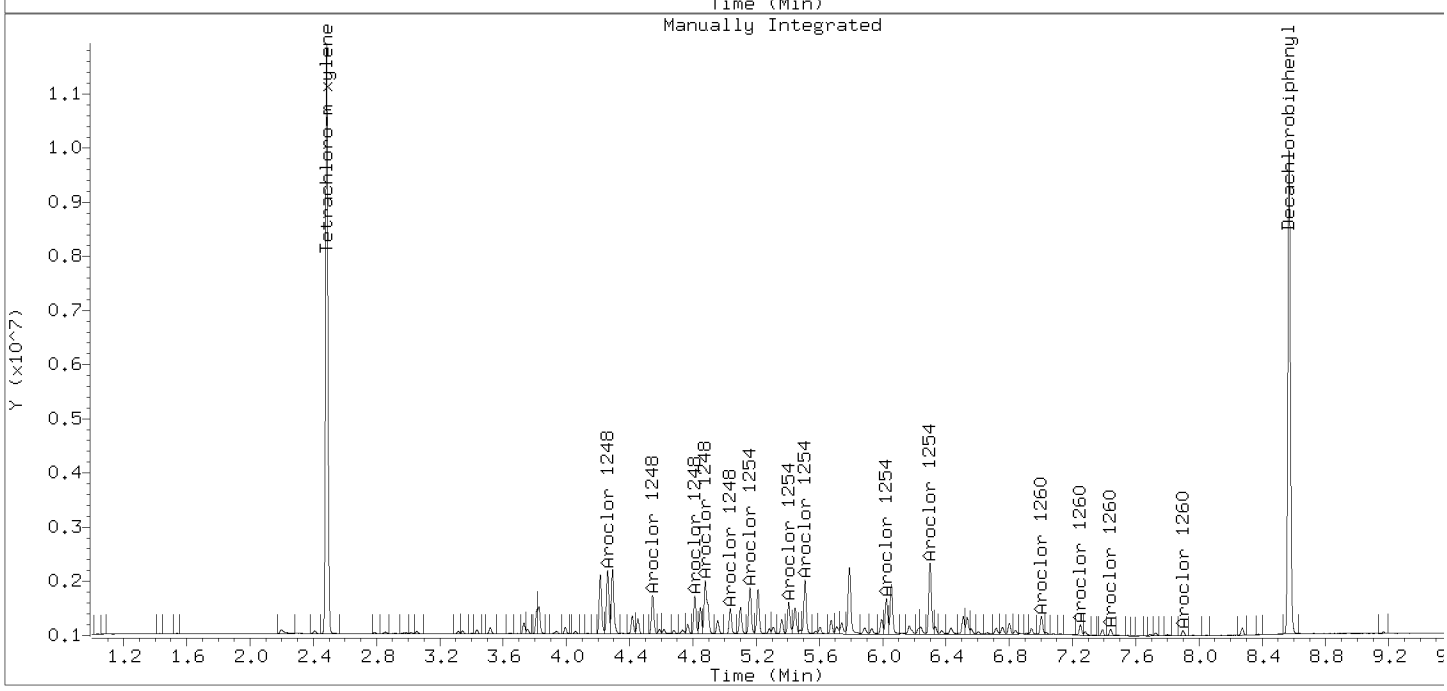
Injection Date: 21-MAR-2018 19:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	56158	0	
Aroclor 1016	56158	0	
Aroclor 1016	56158	0	
Aroclor 1016	56158	0	
Aroclor 1016	56158	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	50976	0	
Aroclor 1232	50976	0	
Aroclor 1232	50976	0	
Aroclor 1232	50976	0	

Aroclor 1232	50976	0	
Aroclor 1242	56158	0	
Aroclor 1242	56158	0	
Aroclor 1242	56158	0	
Aroclor 1242	56158	0	
Aroclor 1242	56158	0	
Aroclor 1248	1244010	1258164	BA
Aroclor 1248	1244010	1258164	BA
Aroclor 1248	1244010	1258164	BA
Aroclor 1248	1244010	1258164	BA
Aroclor 1248	1244010	1258164	BA
Aroclor 1254	976447	998876	BA
Aroclor 1254	976447	998876	BA
Aroclor 1254	976447	998876	BA
Aroclor 1254	976447	998876	BA
Aroclor 1254	976447	998876	BA
Aroclor 1260	1549268	0	BA
Aroclor 1260	1549268	0	BA
Aroclor 1260	1549268	0	BA
Aroclor 1260	1549268	0	BA
Aroclor 1260	1549268	0	BA
Tetrachloro-m-xylene	11054126	11054126	
Decachlorobiphenyl	10108818	10108818	

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SAMPLE NO.

TD5-170612-01-YP-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: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552006
Date Analyzed: 03/21/2018 19:59
Lab File ID: 032118.B\032118030.D
Initial wt/vol: 9.9642 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)	160	
11097-69-1	PCB-1254 (Aroclor 1254)	94.6	
11096-82-5	PCB-1260 (Aroclor 1260)	20.9	J
1336-36-3	PCB, Total	276	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118030.D
Lab Smp Id: 40151552006 Client Smp ID: TD5-170612-01-YP-04
Inj Date : 21-MAR-2018 19:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552006,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	20013	17505	0.875	0.04		
1.806	10744	7852	0.731	0.02		
2.198	145800	68238	0.468	0.29		
2.288	22695	13232	0.583	0.04		
2.409	102092	77794	0.762	0.20		
2.483	9461331	9282280	0.981	19.91	$ 2 Tetrachloro-m-xylene	
2.787	32039	26424	0.825	0.06		
2.852	60557	42839	0.707	0.12		
2.918	9386	8675	0.924	0.01		
2.972	23088	16369	0.709	0.04		
3.017	29697	31486	1.060	0.06		
3.055	103559	98435	0.951	0.21		
3.317	83159	80977	0.974	0.17		
3.344	94089	90268	0.959	0.19		
3.431	187420	177521	0.947	0.38		
3.518	197638	189516	0.959	0.40		
3.643	27286	25656	0.940	0.05		
3.730	230010	234090	1.018	0.47		
3.755	89512	88282	0.986	0.18		
3.813	891671	525504	0.589	1.83		
3.937	139773	118003	0.844	0.28		
3.993	148026	142034	0.960	0.30		
4.057	68603	61590	0.898	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.138	16486	12547	0.761	0.03	
4.214	1326114	1218060	0.919	2.72	
4.259	1304872	1262021	0.967	2.68	6 Aroclor 1248
4.292	1556017	1375639	0.884	3.19	
4.344	19683	14773	0.751	0.04	
4.416	393615	364380	0.926	0.80	
4.451	336108	302608	0.900	0.69	
4.544	867950	805859	0.928	1.78	6 Aroclor 1248
4.587	126535	116475	0.920	0.26	
4.617	111033	95788	0.863	0.22	
4.680	88242	77838	0.882	0.18	
4.736	125602	98061	0.781	0.25	
4.767	180175	169662	0.942	0.37	
4.812	749095	738615	0.986	1.53	6 Aroclor 1248
4.847	504235	488297	0.968	1.03	
4.877	1666848	979544	0.588	3.42	6 Aroclor 1248
4.955	365286	317700	0.870	0.75	
5.036	475454	441556	0.929	0.97	6 Aroclor 1248
5.099	646188	568439	0.880	1.32	
5.160	1046126	923064	0.882	2.14	7 Aroclor 1254
5.210	976646	912884	0.935	2.00	
5.281	114058	110460	0.968	0.23	
5.308	181115	150699	0.832	0.37	
5.362	315968	289256	0.915	0.64	
5.405	714208	659680	0.924	1.46	7 Aroclor 1254
5.446	683116	572471	0.838	1.40	
5.478	88952	83081	0.934	0.18	
5.508	1265267	1152601	0.911	2.60	7 Aroclor 1254
5.576	74124	67423	0.910	0.15	
5.602	180223	150093	0.833	0.37	
5.673	317181	283445	0.894	0.65	
5.709	196014	154473	0.788	0.40	
5.741	289861	232250	0.801	0.59	
5.789	1710394	1325205	0.775	3.51	
5.884	173566	123049	0.709	0.35	
5.930	142244	112515	0.791	0.29	
5.992	308926	285893	0.925	0.63	
6.024	770451	663767	0.862	1.58	7 Aroclor 1254
6.054	1072192	962984	0.898	2.20	
6.168	225156	145927	0.648	0.46	
6.228	90402	106088	1.174	0.18	
6.240	165366	134062	0.811	0.33	
6.299	1660995	1403471	0.845	3.41	7 Aroclor 1254
6.332	164071	142978	0.871	0.33	
6.373	77464	56184	0.725	0.15	
6.430	158532	119192	0.752	0.32	
6.508	353589	330563	0.935	0.72	
6.534	356143	311633	0.875	0.73	
6.559	108938	102367	0.940	0.22	
6.604	58681	44152	0.752	0.12	
6.656	29923	21621	0.723	0.06	
6.717	111315	89430	0.803	0.22	
6.757	155699	129516	0.832	0.31	
6.799	206188	178756	0.867	0.42	
6.839	86273	62970	0.730	0.17	
6.910	17243	16673	0.967	0.03	
6.942	118129	102675	0.869	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.003	340536	310709	0.912	0.69	8 Aroclor 1260
7.035	34374	31959	0.930	0.07	
7.249	213614	192325	0.900	0.43	8 Aroclor 1260
7.280	82752	63157	0.763	0.17	
7.335	18419	14074	0.764	0.03	
7.387	116354	103944	0.893	0.23	
7.442	136546	114247	0.837	0.28	8 Aroclor 1260
7.625	12510	8744	0.699	0.02	
7.658	10437	11166	1.070	0.02	
7.691	35178	35616	1.012	0.07	
7.727	57749	48110	0.833	0.11	
7.800	39786	24461	0.615	0.08	
7.898	107426	94963	0.884	0.22	8 Aroclor 1260
8.048	27798	21390	0.769	0.05	
8.274	136658	124383	0.910	0.28	
8.376	16699	12880	0.771	0.03	
8.568	9399756	8278444	0.881	19.31	$ 12 Decachlorobiphenyl
8.721	10158	7730	0.761	0.02	
8.944	11134	10361	0.931	0.02	
9.164	38332	29133	0.760	0.07	
9.458	9738	7699	0.791	0.02	
	48658420	43131478		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118030.D
Lab Smp Id: 40151552006 Client Smp ID: TD5-170612-01-YP-04
Inj Date : 21-MAR-2018 19:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552006,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	9.964	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	9461331	0.07674	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			
4.259	4.261	-0.002	1304871	0.55693	280	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	867950	0.20913	100	0.00- 20.00	66.52	BA
4.811	4.812	-0.001	749094	0.36900	180	0.00- 20.00	57.41	BA
4.877	4.879	-0.002	1666848	0.33089	170	0.00- 20.00	127.74	BA
5.036	5.038	-0.002	475454	0.13249	66	0.00- 20.00	36.44	BA
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1046126	0.19982	100	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	714208	0.16605	83	0.00- 20.00	68.27	BA
5.508	5.510	-0.002	1265267	0.16292	82	0.00- 20.00	120.95	BA
6.023	6.027	-0.004	770451	0.15821	79	0.00- 20.00	73.65	BA
6.298	6.299	-0.001	1660994	0.25526	130	0.00- 20.00	158.78	BA
Average of Peak Concentrations =					94			
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	340536	0.03400	17	0.00- 20.00	20.50	BA
7.249	7.251	-0.002	213614	0.04469	22	0.00- 20.00	12.86	BA
7.441	7.443	-0.002	136546	0.04684	24	0.00- 20.00	8.22	BA
7.897	7.901	-0.004	107425	0.04071	20	0.00- 20.00	6.47	BA
Average of Peak Concentrations =					21			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9399756	0.08580	43			

QC Flag Legend

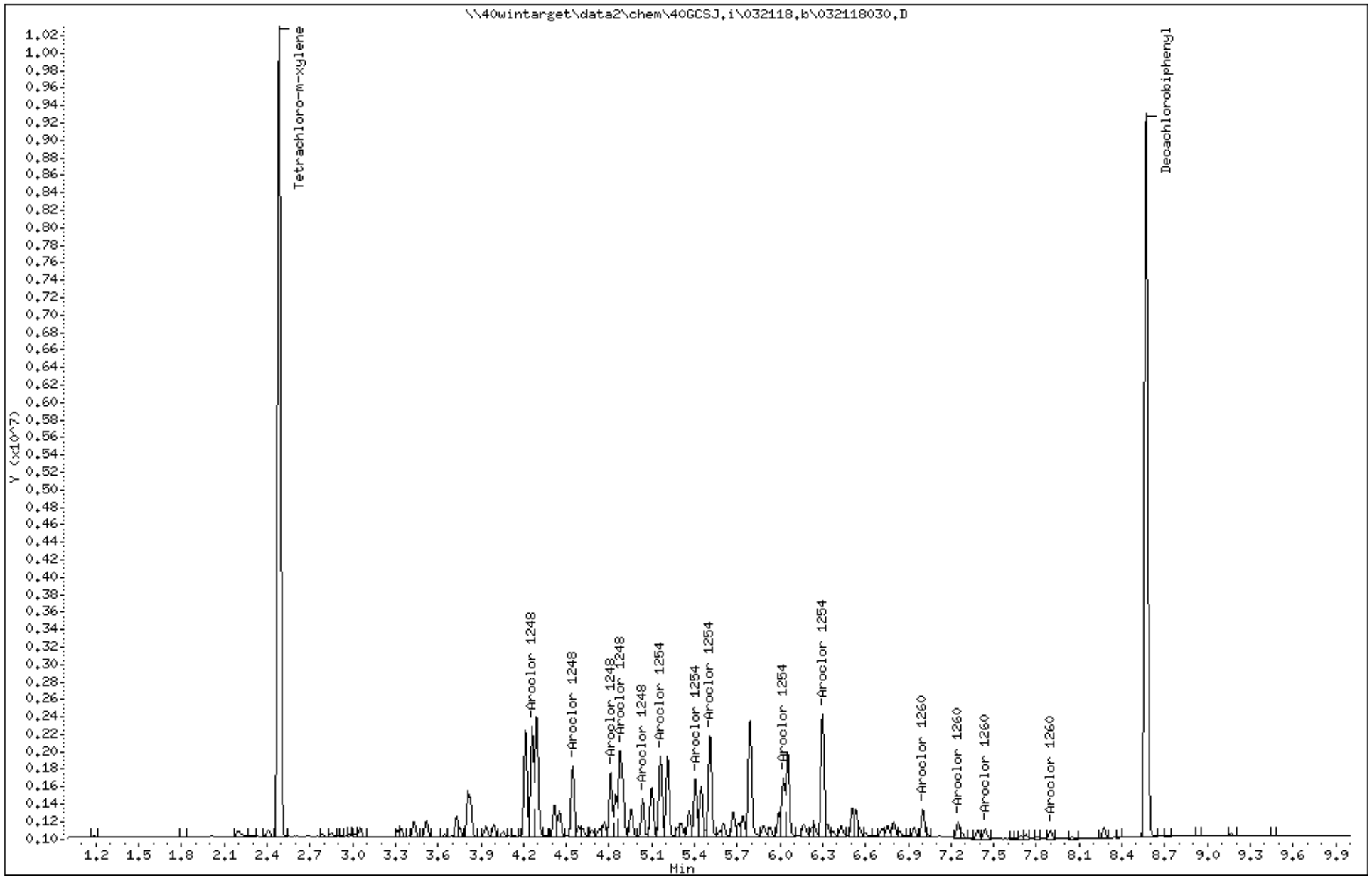
M - Compound response manually integrated.

Review Codes Legend

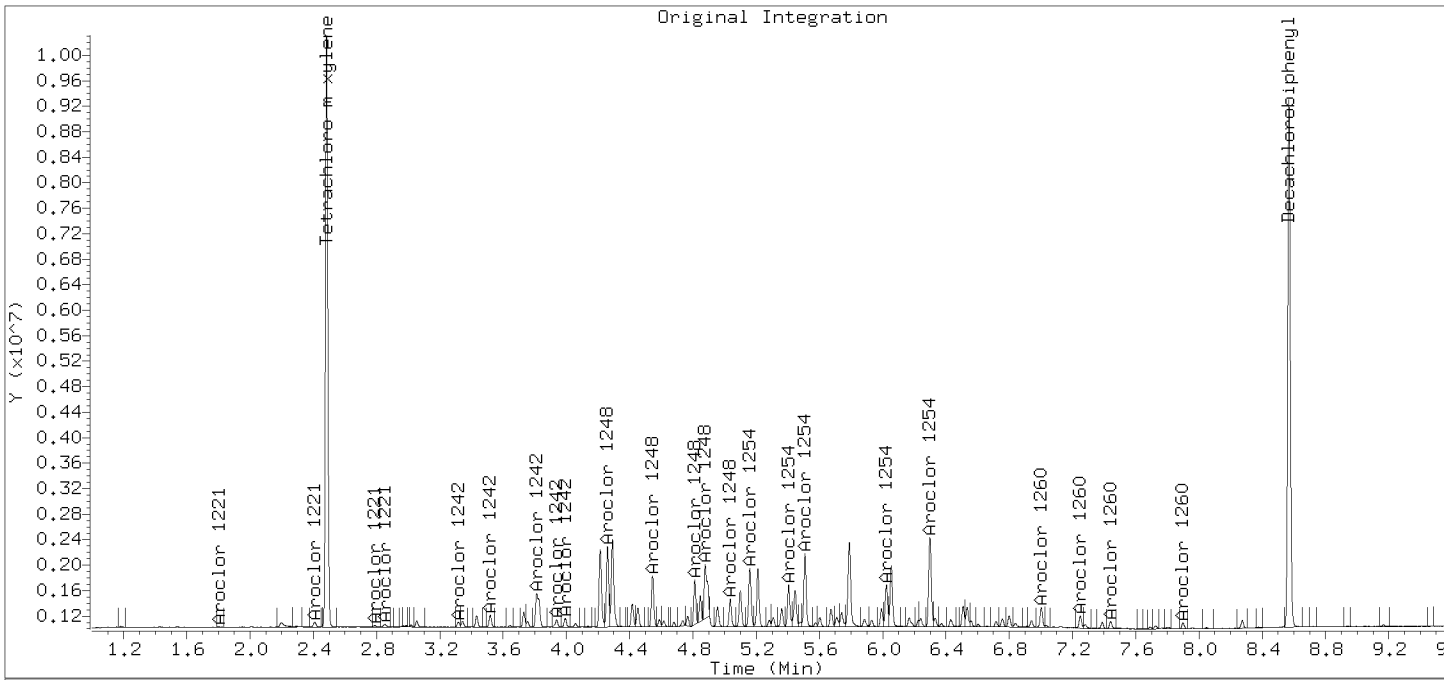
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

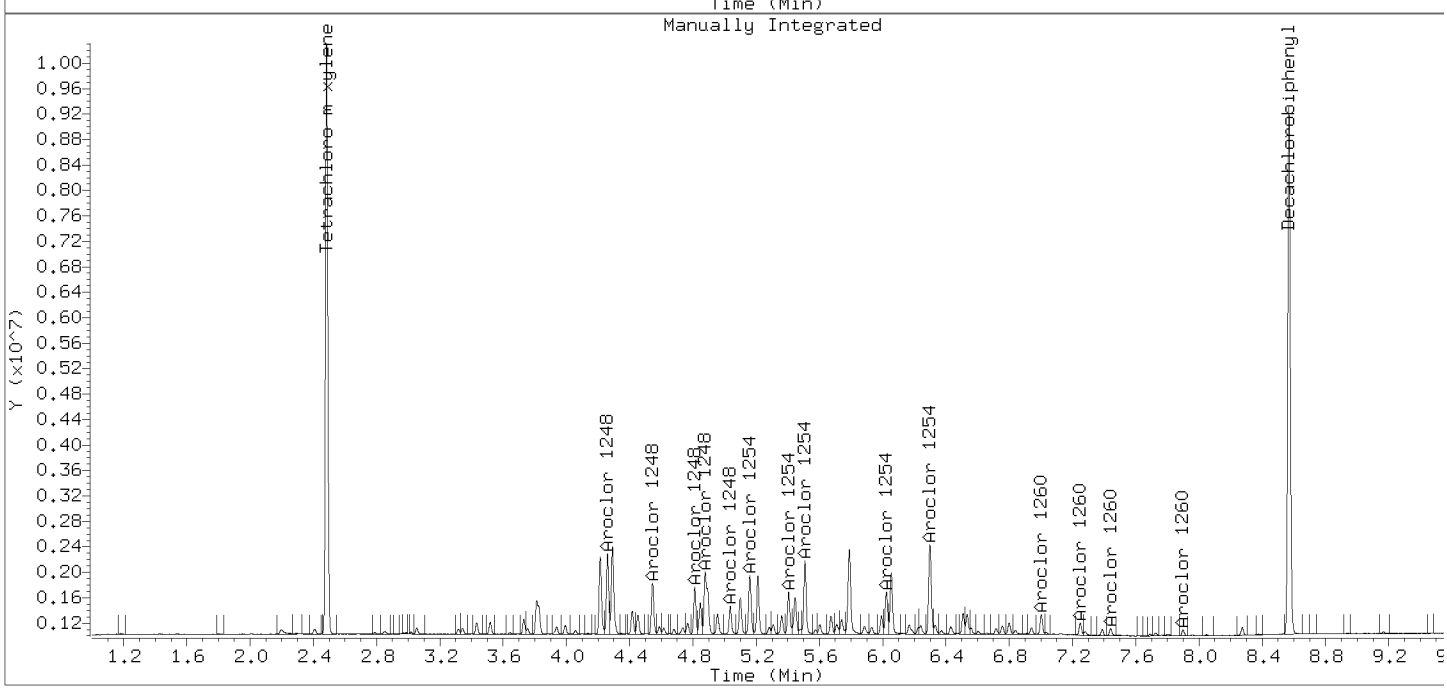
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118030.D
Date : 21-MAR-2018 19:59
Client ID: TD5-170612-01-YP-04
Sample Info: 40151552006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 19:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	83158	0	
Aroclor 1016	83158	0	
Aroclor 1016	83158	0	
Aroclor 1016	83158	0	
Aroclor 1016	83158	0	
Aroclor 1221	10744	0	
Aroclor 1221	10744	0	
Aroclor 1221	10744	0	
Aroclor 1221	10744	0	
Aroclor 1221	10744	0	
Aroclor 1232	60557	0	
Aroclor 1232	60557	0	
Aroclor 1232	60557	0	
Aroclor 1232	60557	0	

Aroclor 1232	60557	0	
Aroclor 1242	83158	0	
Aroclor 1242	83158	0	
Aroclor 1242	83158	0	
Aroclor 1242	83158	0	
Aroclor 1242	83158	0	
Aroclor 1248	1297501	1304871	BA
Aroclor 1248	1297501	1304871	BA
Aroclor 1248	1297501	1304871	BA
Aroclor 1248	1297501	1304871	BA
Aroclor 1248	1297501	1304871	BA
Aroclor 1254	1015190	1046126	BA
Aroclor 1254	1015190	1046126	BA
Aroclor 1254	1015190	1046126	BA
Aroclor 1254	1015190	1046126	BA
Aroclor 1254	1015190	1046126	BA
Aroclor 1260	1638425	0	BA
Aroclor 1260	1638425	0	BA
Aroclor 1260	1638425	0	BA
Aroclor 1260	1638425	0	BA
Aroclor 1260	1638425	0	BA
Tetrachloro-m-xylene	9461331	9461331	
Decachlorobiphenyl	9399756	9399756	

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SAMPLE NO.

TD5-170612-01-YP-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: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552007
Date Analyzed: 03/21/2018 20:14
Lab File ID: 032118.B\032118031.D
Initial wt/vol: 10.0356 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)	63.3	
11097-69-1	PCB-1254 (Aroclor 1254)	29.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	92.8	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118031.D
Lab Smp Id: 40151552007 Client Smp ID: TD5-170612-01-YP-03
Inj Date : 21-MAR-2018 20:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552007,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
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	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	9677	6315	0.653	0.03		
2.198	75412	41429	0.549	0.25		
2.410	49581	39093	0.788	0.16		
2.484	9529295	9067742	0.952	32.62	$ 2 Tetrachloro-m-xylene	
2.787	20785	20205	0.972	0.07		
2.858	35703	22450	0.629	0.12		
2.973	35532	15712	0.442	0.12		
3.019	23138	20330	0.879	0.07		
3.054	36590	30969	0.846	0.12		
3.318	33969	31955	0.941	0.11		
3.344	37177	34842	0.937	0.12		
3.432	63560	56762	0.893	0.21		
3.518	77188	73082	0.947	0.26		
3.643	12967	10383	0.801	0.04		
3.732	78598	78198	0.995	0.26		
3.755	43731	39762	0.909	0.14		
3.826	496796	315496	0.635	1.67		
3.937	55214	35598	0.645	0.18		
3.993	88908	84755	0.953	0.30		
4.056	45893	36671	0.799	0.15		
4.214	478085	439071	0.918	1.61		
4.260	462729	443927	0.959	1.56	6 Aroclor 1248	BA
4.291	475037	402332	0.847	1.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	255207	240468	0.942	0.86	
4.452	195270	171360	0.878	0.65	
4.544	378731	352879	0.932	1.27	6 Aroclor 1248
4.589	33676	32230	0.957	0.11	
4.616	65103	57703	0.886	0.21	
4.680	32523	26356	0.810	0.10	
4.733	39392	27765	0.705	0.13	
4.767	73439	68222	0.929	0.24	
4.811	297461	282611	0.950	1.00	6 Aroclor 1248
4.847	240509	237086	0.986	0.81	
4.878	659843	416036	0.631	2.22	6 Aroclor 1248
4.955	111501	96578	0.866	0.37	
5.036	248566	230564	0.928	0.83	6 Aroclor 1248
5.099	214582	173263	0.807	0.72	
5.160	317327	277114	0.873	1.07	7 Aroclor 1254
5.210	283251	249046	0.879	0.95	
5.281	39013	34669	0.889	0.13	
5.306	61716	50763	0.823	0.20	
5.361	132908	111949	0.842	0.44	
5.406	226818	209028	0.922	0.76	7 Aroclor 1254
5.445	220833	178740	0.809	0.74	
5.481	21584	27231	1.262	0.07	
5.508	455991	404096	0.886	1.54	7 Aroclor 1254
5.575	27095	21360	0.788	0.09	
5.602	88958	63986	0.719	0.30	
5.674	86909	77097	0.887	0.29	
5.712	58997	45591	0.773	0.19	
5.740	96143	66841	0.695	0.32	
5.789	538185	415605	0.772	1.81	
5.885	66869	40585	0.607	0.22	
5.931	56742	36161	0.637	0.19	
5.993	88147	77228	0.876	0.29	
6.023	264637	229648	0.868	0.89	7 Aroclor 1254
6.054	294421	239414	0.813	0.99	
6.167	80244	44894	0.559	0.27	
6.228	68261	40086	0.587	0.23	
6.297	448238	356508	0.795	1.51	7 Aroclor 1254
6.332	52834	48135	0.911	0.17	
6.371	35155	22139	0.630	0.11	
6.432	74239	37953	0.511	0.25	
6.508	111361	96189	0.864	0.37	
6.534	113005	95356	0.844	0.38	
6.605	18854	12946	0.687	0.06	
6.665	24302	12442	0.512	0.08	
6.717	43752	29146	0.666	0.14	
6.759	52635	37164	0.706	0.17	
6.800	68915	56798	0.824	0.23	
6.836	33652	25003	0.743	0.11	
6.943	46447	32395	0.697	0.15	
7.002	89457	82483	0.922	0.30	8 Aroclor 1260
7.030	8112	11349	1.399	0.02	
7.126	18150	12032	0.663	0.06	
7.249	67720	58164	0.859	0.22	8 Aroclor 1260
7.281	44442	26450	0.595	0.15	
7.333	16903	13177	0.780	0.05	
7.388	33451	30934	0.925	0.11	
7.440	55397	37651	0.680	0.18	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.580	10544	10202	0.968	0.03	
7.689	13243	14285	1.079	0.04	
7.727	46712	35816	0.767	0.15	
7.800	27625	16349	0.592	0.09	
7.899	45931	31186	0.679	0.15	8 Aroclor 1260
8.039	10668	8585	0.805	0.03	
8.273	98092	84561	0.862	0.33	
8.372	13954	11325	0.812	0.04	
8.569	9183290	8127465	0.885	31.01	$ 12 Decachlorobiphenyl
9.167	11953	13126	1.098	0.04	
	29605452	26188646		100.000	

Total unknown % area = 23

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118031.D
Lab Smp Id: 40151552007 Client Smp ID: TD5-170612-01-YP-03
Inj Date : 21-MAR-2018 20:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552007,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
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	10.036	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	9529295	0.07729	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			
4.260	4.261	-0.001	462728	0.19750	98	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	378730	0.09125	45	0.00- 20.00	81.85	BA
4.811	4.812	-0.001	297460	0.14653	73	0.00- 20.00	64.28	BA
4.878	4.879	-0.001	659842	0.13099	65	0.00- 20.00	142.60	BA
5.036	5.038	-0.002	248566	0.06927	34	0.00- 20.00	53.72	BA
Average of Peak Concentrations =					63			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	317327	0.06061	30	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	226818	0.05274	26	0.00- 20.00	71.48	CO
5.508	5.510	-0.002	455990	0.05872	29	0.00- 20.00	143.70	CO
6.022	6.027	-0.005	264636	0.05434	27	0.00- 20.00	83.40	CO
6.297	6.299	-0.002	448237	0.06888	34	0.00- 20.00	141.25	CO
Average of Peak Concentrations =					29			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9183290	0.08382	42			

QC Flag Legend

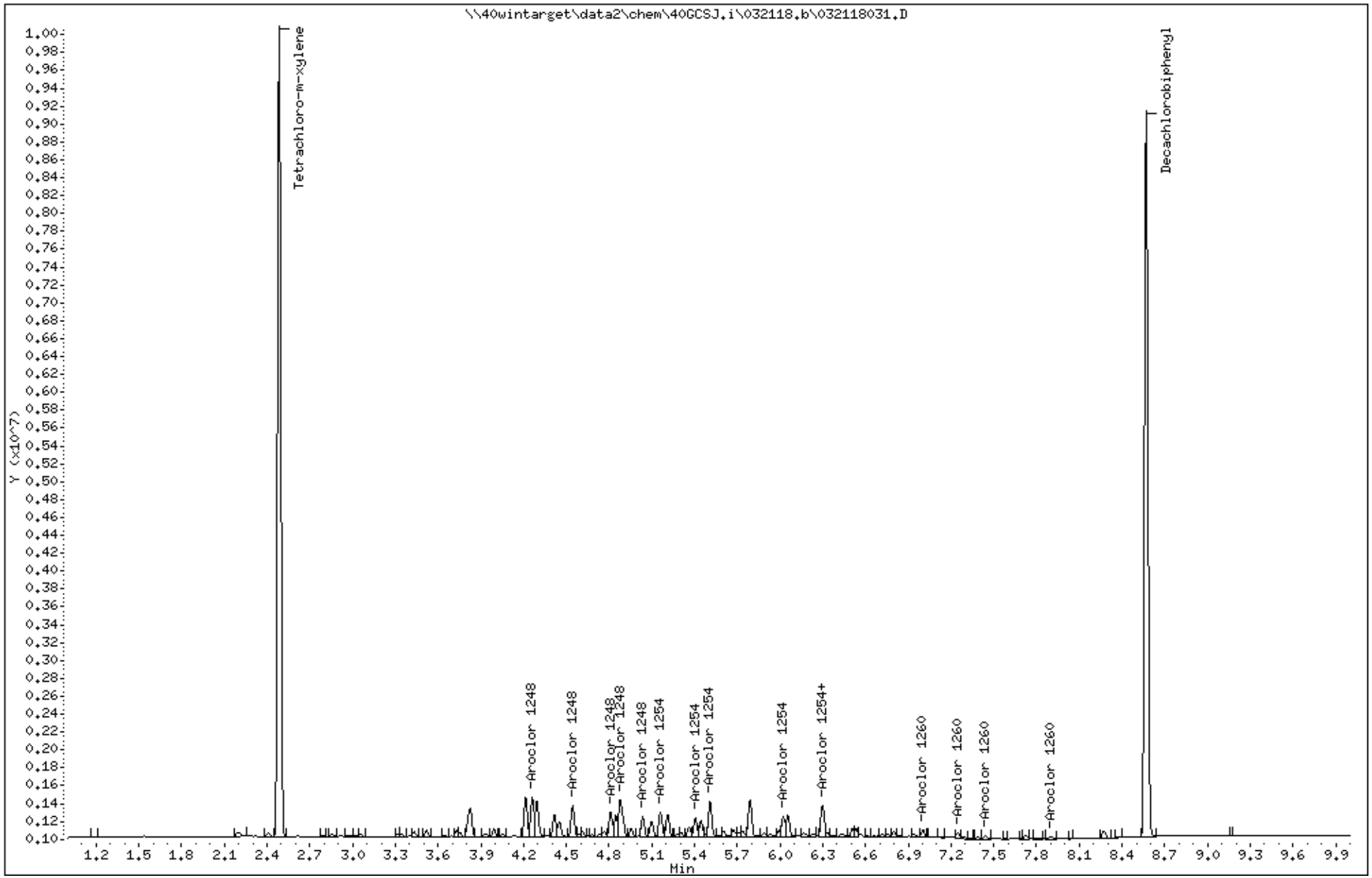
M - Compound response manually integrated.

Review Codes Legend

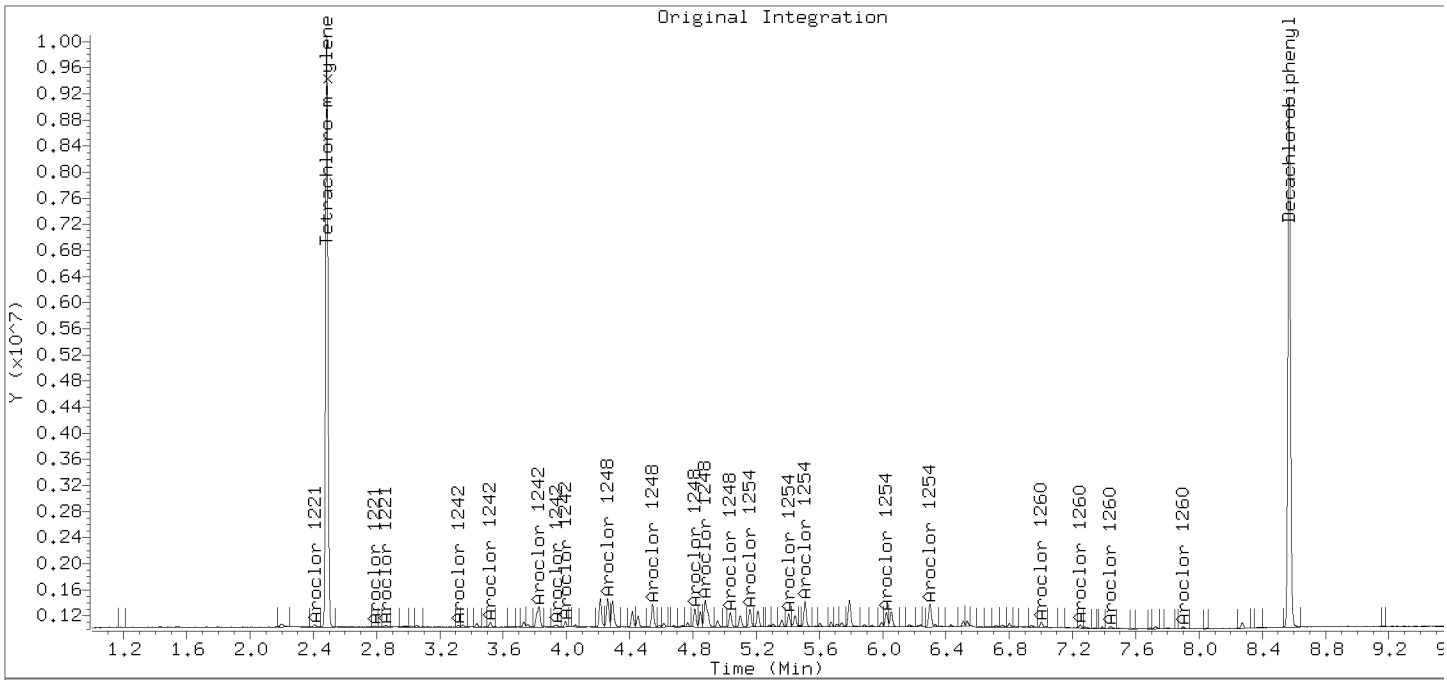
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

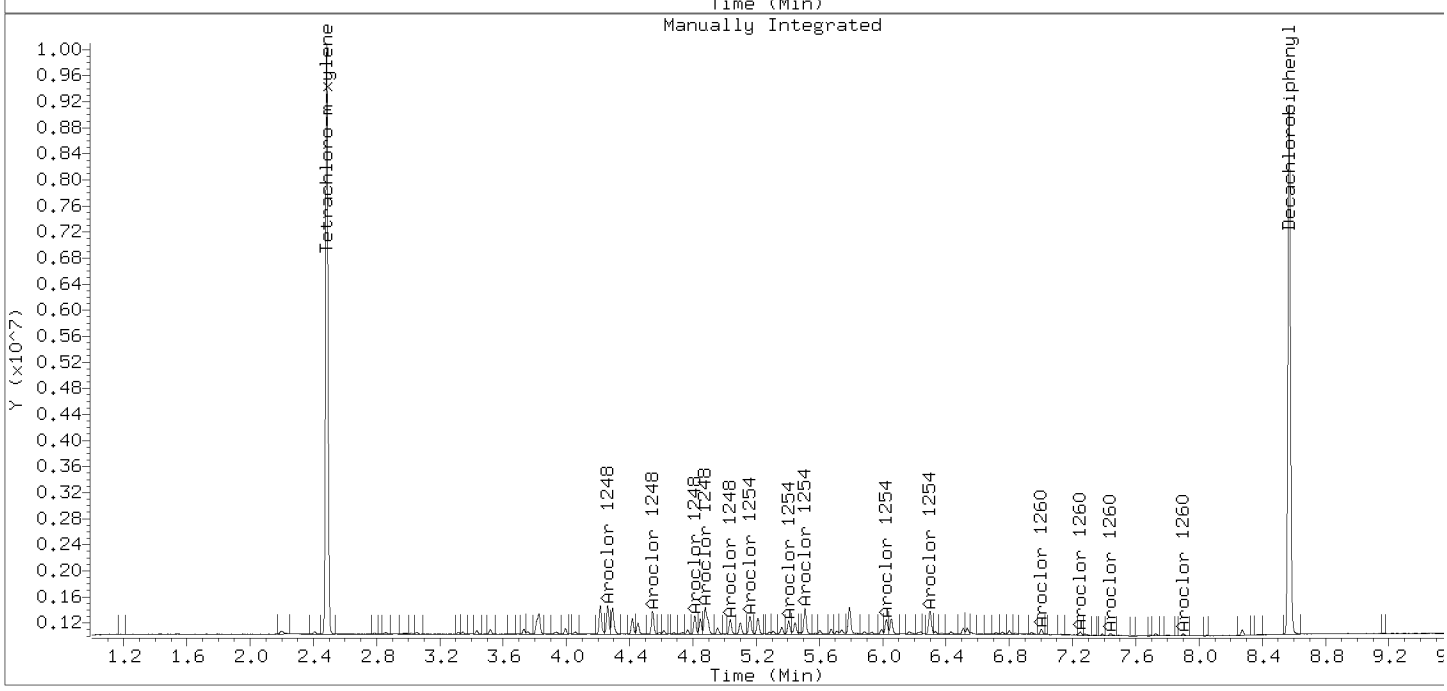
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118031.D
Date : 21-MAR-2018 20:14
Client ID: TD5-170612-01-YP-03
Sample Info: 40151552007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 20:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	33968	0	
Aroclor 1016	33968	0	
Aroclor 1016	33968	0	
Aroclor 1016	33968	0	
Aroclor 1016	33968	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	35702	0	
Aroclor 1232	35702	0	
Aroclor 1232	35702	0	
Aroclor 1232	35702	0	

Aroclor 1232	35702	0	
Aroclor 1242	33968	0	
Aroclor 1242	33968	0	
Aroclor 1242	33968	0	
Aroclor 1242	33968	0	
Aroclor 1242	33968	0	
Aroclor 1248	458110	462728	BA
Aroclor 1248	458110	462728	BA
Aroclor 1248	458110	462728	BA
Aroclor 1248	458110	462728	BA
Aroclor 1248	458110	462728	BA
Aroclor 1254	304018	317327	CO
Aroclor 1254	304018	317327	CO
Aroclor 1254	304018	317327	CO
Aroclor 1254	304018	317327	CO
Aroclor 1254	304018	317327	CO
Aroclor 1260	464333	0	CO
Aroclor 1260	464333	0	CO
Aroclor 1260	464333	0	CO
Aroclor 1260	464333	0	CO
Aroclor 1260	464333	0	CO
Tetrachloro-m-xylene	9529295	9529295	
Decachlorobiphenyl	9183290	9183290	

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SAMPLE NO.

TD5-170612-01-YP-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: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/20/2018 07:17
Lab Sample ID: 40151552008
Date Analyzed: 03/21/2018 20:30
Lab File ID: 032118.B\032118032.D
Initial wt/vol: 10.0149 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)	38.5	J
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)	168	
11097-69-1	PCB-1254 (Aroclor 1254)	92.7	
11096-82-5	PCB-1260 (Aroclor 1260)	22.6	J
1336-36-3	PCB, Total	322	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118032.D
Lab Smp Id: 40151552008 Client Smp ID: TD5-170612-01-YP-02
Inj Date : 21-MAR-2018 20:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552008,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	10.015	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.153	10092	8841	0.876	0.01		
1.534	12020	9492	0.790	0.02		
1.807	1957	4515	2.307	0.00		
2.198	174860	78896	0.451	0.34		
2.294	17790	10971	0.617	0.03		
2.409	126963	99975	0.787	0.24	1 Aroclor 1221	BA
2.485	10665279	10051529	0.942	21.25	$ 2 Tetrachloro-m-xylene	BA
2.681	17681	12102	0.684	0.03	1 Aroclor 1221	BA
2.787	37353	32439	0.868	0.07	1 Aroclor 1221	BA
2.850	98933	71398	0.722	0.19	1 Aroclor 1221	BA
2.920	21269	12703	0.597	0.04		
2.978	67225	30494	0.454	0.13		
3.020	41841	39129	0.935	0.08		
3.055	118665	106149	0.895	0.23		
3.317	141238	134315	0.951	0.27		
3.344	145486	134700	0.926	0.28		
3.434	272600	247589	0.908	0.53		
3.519	234243	207619	0.886	0.45		
3.646	30638	24405	0.797	0.05		
3.731	233947	226713	0.969	0.45		
3.756	94164	98503	1.046	0.18		
3.813	494272	516201	1.044	0.96		
3.824	483219	520223	1.077	0.94		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.937	201458	155852	0.774	0.39	
3.993	184927	179153	0.969	0.36	
4.056	90419	79304	0.877	0.17	
4.135	26299	22021	0.837	0.05	
4.214	1361443	1255489	0.922	2.65	
4.261	1327052	1261744	0.951	2.58	6 Aroclor 1248
4.291	1370032	1160570	0.847	2.66	
4.416	527539	509892	0.967	1.02	
4.451	417970	376471	0.901	0.81	
4.545	988691	926327	0.937	1.92	6 Aroclor 1248
4.588	99449	92509	0.930	0.19	
4.617	124068	114051	0.919	0.24	
4.680	94573	80795	0.854	0.18	
4.734	121992	88219	0.723	0.23	
4.766	166676	159529	0.957	0.32	
4.813	728061	732215	1.006	1.41	6 Aroclor 1248
4.847	589730	562953	0.955	1.14	
4.879	1770992	1052436	0.594	3.44	6 Aroclor 1248
4.956	341786	285421	0.835	0.66	
5.036	600412	568206	0.946	1.16	6 Aroclor 1248
5.100	656747	577190	0.879	1.27	
5.161	1056323	939127	0.889	2.05	7 Aroclor 1254
5.211	916440	816271	0.891	1.78	
5.282	106913	100825	0.943	0.20	
5.307	185655	155251	0.836	0.36	
5.362	333179	296534	0.890	0.64	
5.406	708194	643233	0.908	1.37	7 Aroclor 1254
5.447	684172	577155	0.844	1.33	
5.478	84265	84078	0.998	0.16	
5.509	1279858	1112405	0.869	2.49	7 Aroclor 1254
5.576	65991	57686	0.874	0.12	
5.603	192858	161624	0.838	0.37	
5.675	314914	293154	0.931	0.61	
5.710	197517	148950	0.754	0.38	
5.740	279629	209375	0.749	0.54	
5.790	1642741	1326773	0.808	3.19	
5.885	184158	126873	0.689	0.35	
5.930	148217	107459	0.725	0.28	
5.992	299160	279193	0.933	0.58	
6.023	743049	663073	0.892	1.44	7 Aroclor 1254
6.054	1090742	933483	0.856	2.12	
6.168	233159	144284	0.619	0.45	
6.227	96780	102856	1.063	0.18	
6.241	159699	131115	0.821	0.31	
6.298	1589773	1335284	0.840	3.09	7 Aroclor 1254
6.332	160797	143749	0.894	0.31	
6.373	87930	58150	0.661	0.17	
6.431	163360	118385	0.725	0.31	
6.509	344589	303244	0.880	0.67	
6.535	346049	309642	0.895	0.67	
6.558	117733	101089	0.859	0.22	
6.604	64946	48815	0.752	0.12	
6.658	38779	26350	0.679	0.07	
6.715	116244	83896	0.722	0.22	
6.757	154673	126171	0.816	0.30	
6.799	205771	179616	0.873	0.40	
6.840	78965	64257	0.814	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.910	19129	16745	0.875	0.03	
6.941	130919	118323	0.904	0.25	
7.003	339331	312198	0.920	0.66	8 Aroclor 1260
7.033	27967	32751	1.171	0.05	
7.124	23240	14168	0.610	0.04	
7.250	225422	198539	0.881	0.43	8 Aroclor 1260
7.281	94423	69811	0.739	0.18	
7.337	29770	20744	0.697	0.05	
7.389	117798	101362	0.860	0.22	
7.441	160339	120749	0.753	0.31	8 Aroclor 1260
7.689	40413	36950	0.914	0.07	
7.726	62339	49272	0.790	0.12	
7.809	45929	27488	0.598	0.08	
7.899	119743	97549	0.815	0.23	8 Aroclor 1260
7.961	21348	13409	0.628	0.04	
8.046	29132	24228	0.832	0.05	
8.274	134483	124475	0.926	0.26	
8.376	15625	12166	0.779	0.03	
8.569	9864071	8642492	0.876	19.20	$ 12 Decachlorobiphenyl
9.164	31372	27244	0.868	0.06	
9.463	12104	6854	0.566	0.02	
	51350171	45296190		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118032.D
Lab Smp Id: 40151552008 Client Smp ID: TD5-170612-01-YP-02
Inj Date : 21-MAR-2018 20:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552008,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	10.015	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	126962	0.23175	120	0.00- 20.00	0.00	BA
2.680	2.688	-0.008	17680	0.01278	6.4	0.00- 20.00	0.00	BA
2.786	2.789	-0.003	37352	0.03378	17	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	98932	0.03039	15	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					38			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10665278	0.08650	43		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

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			
4.260	4.261	-0.001	1327051	0.56640	280	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	988690	0.23822	120	0.00- 20.00	74.50	BA
4.812	4.812	0.000	728061	0.35864	180	0.00- 20.00	54.86	BA
4.878	4.879	-0.001	1770992	0.35157	180	0.00- 20.00	133.45	BA
5.036	5.038	-0.002	600411	0.16731	84	0.00- 20.00	45.24	BA
Average of Peak Concentrations =					170			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1056323	0.20177	100	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	708193	0.16466	82	0.00- 20.00	67.04	BA
5.508	5.510	-0.002	1279857	0.16480	82	0.00- 20.00	121.16	BA
6.022	6.027	-0.005	743048	0.15259	76	0.00- 20.00	70.34	BA
6.298	6.299	-0.001	1589772	0.24431	120	0.00- 20.00	150.50	BA
Average of Peak Concentrations =					93			
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
7.002	7.006	-0.004	339330	0.03388	17	0.00- 20.00	23.08	CO
7.248	7.251	-0.003	225421	0.04716	24	0.00- 20.00	14.18	CO
7.440	7.443	-0.003	160338	0.05500	27	0.00- 20.00	10.09	CO
7.898	7.901	-0.003	119743	0.04538	23	0.00- 20.00	7.53	CO
Average of Peak Concentrations =					23			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9864071	0.09003	45			

QC Flag Legend

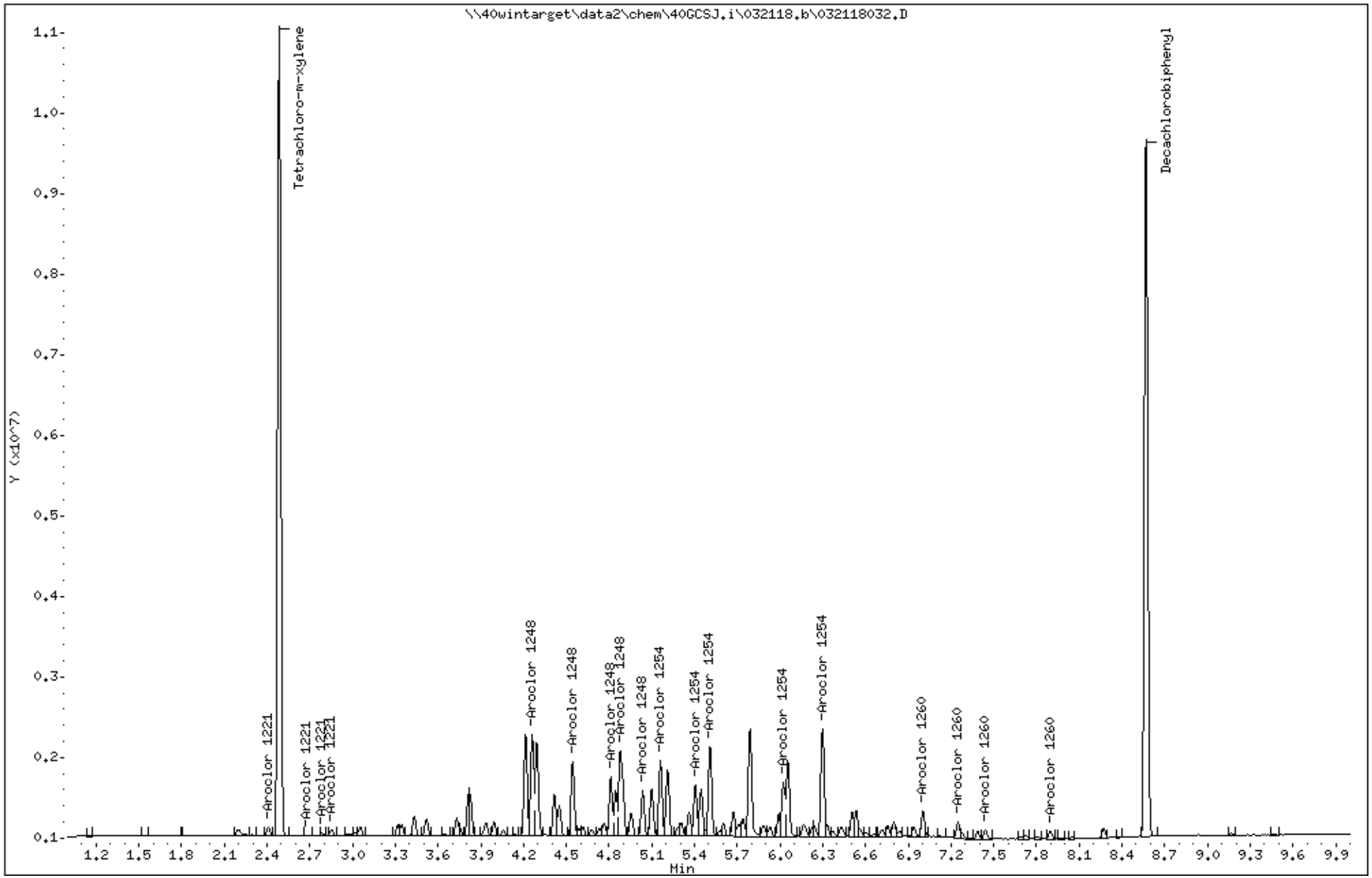
M - Compound response manually integrated.

Review Codes Legend

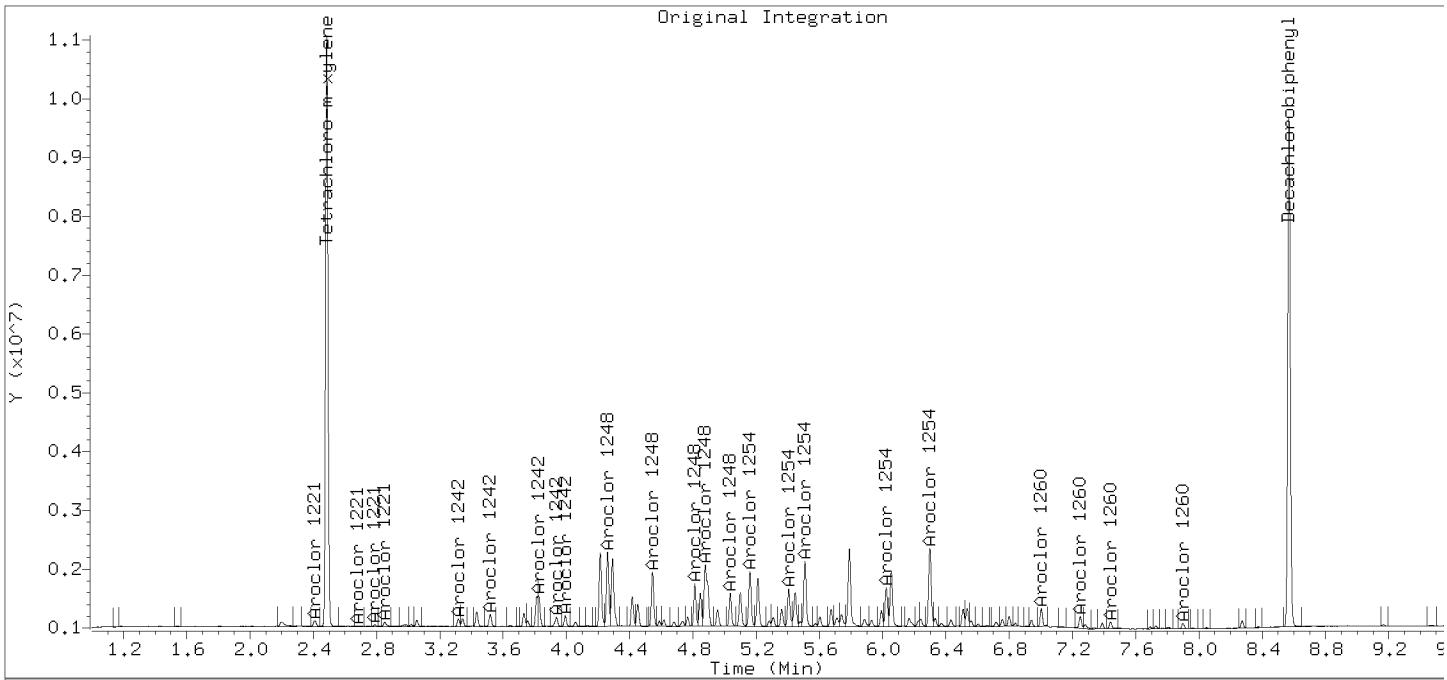
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

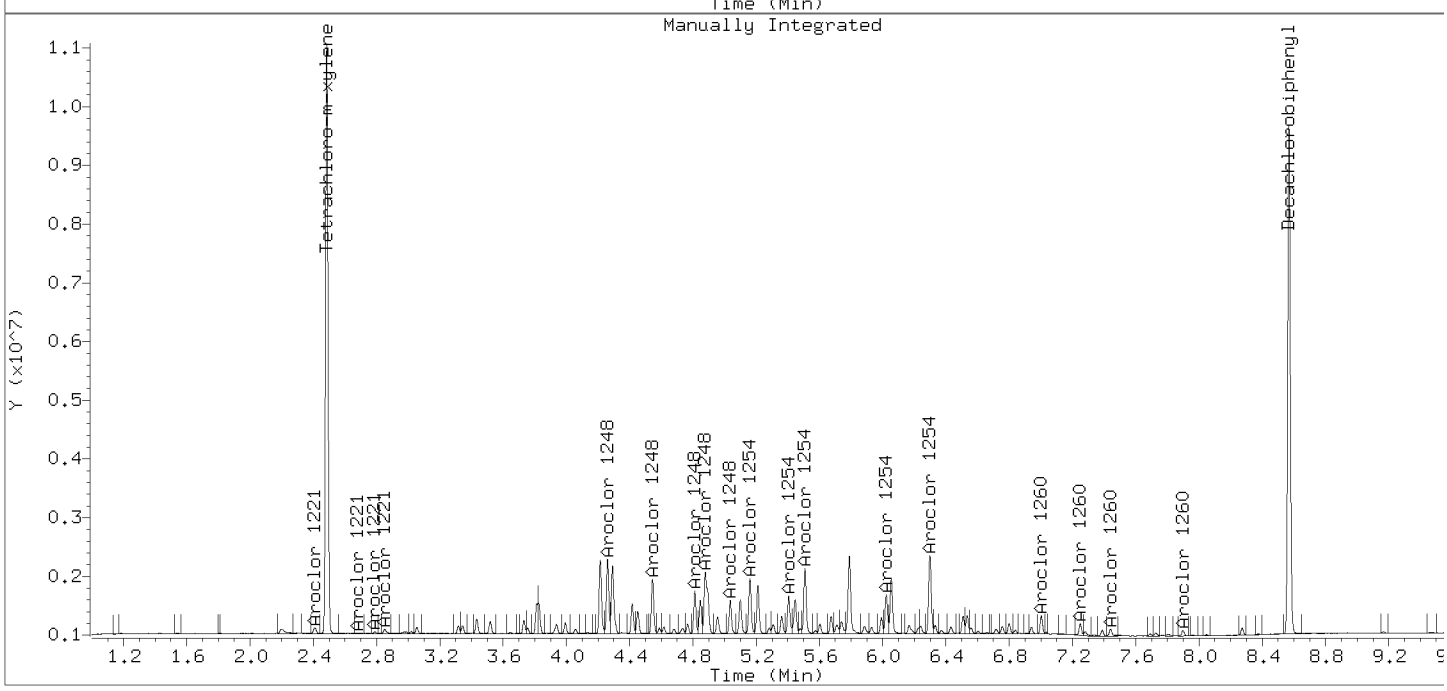
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118032.D
Date : 21-MAR-2018 20:30
Client ID: TD5-170612-01-YP-02
Sample Info: 40151552008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 20:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	136776	0	
Aroclor 1016	136776	0	
Aroclor 1016	136776	0	
Aroclor 1016	136776	0	
Aroclor 1016	136776	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	93897	0	
Aroclor 1232	93897	0	
Aroclor 1232	93897	0	
Aroclor 1232	93897	0	

Aroclor 1232	93897	0	
Aroclor 1242	136776	0	
Aroclor 1242	136776	0	
Aroclor 1242	136776	0	
Aroclor 1242	136776	0	
Aroclor 1242	136776	0	
Aroclor 1248	1316522	1327051	BA
Aroclor 1248	1316522	1327051	BA
Aroclor 1248	1316522	1327051	BA
Aroclor 1248	1316522	1327051	BA
Aroclor 1248	1316522	1327051	BA
Aroclor 1254	1039286	1056323	BA
Aroclor 1254	1039286	1056323	BA
Aroclor 1254	1039286	1056323	BA
Aroclor 1254	1039286	1056323	BA
Aroclor 1254	1039286	1056323	BA
Aroclor 1260	1566820	0	CO
Aroclor 1260	1566820	0	CO
Aroclor 1260	1566820	0	CO
Aroclor 1260	1566820	0	CO
Aroclor 1260	1566820	0	CO
Tetrachloro-m-xylene	10654943	10665278	BA
Decachlorobiphenyl	9864071	9864071	

==========

SAMPLE NO.

TD5-170612-01-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: 06/13/2017 09:30

Matrix: Tissue SDG No.: 40151552

Date Extracted: 03/20/2018 07:17

Lab Sample ID: 40151552009

Date Analyzed: 03/21/2018 20:46

Lab File ID: 032118.B\032118033.D

Initial wt/vol: 10.0057 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)	183	
11097-69-1	PCB-1254 (Aroclor 1254)	121	
11096-82-5	PCB-1260 (Aroclor 1260)	25.5	J
1336-36-3	PCB, Total	329	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118033.D
Lab Smp Id: 40151552009 Client Smp ID: TD5-170612-01-YP-01
Inj Date : 21-MAR-2018 20:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552009,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.155	12875	11767	0.914	0.02		
1.183	15722	12341	0.785	0.02		
1.432	12359	9555	0.773	0.02		
1.537	13343	10528	0.789	0.02		
1.948	12508	6852	0.548	0.02		
2.008	18067	10408	0.576	0.03		
2.197	141713	69135	0.488	0.25		
2.410	148377	120492	0.812	0.26		
2.484	10376387	10297251	0.992	19.04	$ 2 Tetrachloro-m-xylene	
2.791	24943	22010	0.882	0.04		
2.852	57517	41176	0.716	0.10		
2.920	11915	10744	0.902	0.02		
2.973	82612	40091	0.485	0.14		
3.019	51007	52234	1.024	0.09		
3.053	108822	101936	0.937	0.19		
3.318	77568	77044	0.993	0.13		
3.342	74135	71167	0.960	0.13		
3.403	9726	9569	0.984	0.01		
3.433	189871	180208	0.949	0.33		
3.518	154908	145837	0.941	0.27		
3.646	22229	19979	0.899	0.03		
3.731	154208	158800	1.030	0.27		
3.755	65205	61802	0.948	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	885497	558554	0.631	1.57	
3.938	140889	102999	0.731	0.25	
3.993	183743	173397	0.944	0.32	
4.057	85527	71356	0.834	0.15	
4.134	24996	22579	0.903	0.04	
4.215	1237082	1143628	0.924	2.20	
4.261	1267182	1222816	0.965	2.25	6 Aroclor 1248
4.292	1427594	1209283	0.847	2.54	
4.347	25473	14624	0.574	0.04	
4.417	576093	564814	0.980	1.02	
4.453	449070	412502	0.919	0.79	
4.545	1003295	937022	0.934	1.78	6 Aroclor 1248
4.589	98758	92494	0.937	0.17	
4.616	114230	105709	0.925	0.20	
4.680	98448	88691	0.901	0.17	
4.735	130256	95953	0.737	0.23	
4.767	202933	192181	0.947	0.36	
4.812	874554	840391	0.961	1.55	6 Aroclor 1248
4.847	758756	753006	0.992	1.35	
4.878	2088829	1343729	0.643	3.71	6 Aroclor 1248
4.957	343993	304618	0.886	0.61	
5.036	716291	683298	0.954	1.27	6 Aroclor 1248
5.101	696038	607305	0.873	1.23	
5.162	1344310	1185262	0.882	2.39	7 Aroclor 1254
5.212	1139657	1058085	0.928	2.02	
5.283	127066	121909	0.959	0.22	
5.308	210926	177232	0.840	0.37	
5.362	442503	408237	0.923	0.78	
5.406	888288	797694	0.898	1.58	7 Aroclor 1254
5.447	845627	718475	0.850	1.50	
5.479	103897	94992	0.914	0.18	
5.509	1582075	1422418	0.899	2.81	7 Aroclor 1254
5.576	76284	67709	0.888	0.13	
5.603	241015	202139	0.839	0.42	
5.674	393026	361578	0.920	0.69	
5.711	238202	189075	0.794	0.42	
5.741	364008	259957	0.714	0.64	
5.790	2152532	1704139	0.792	3.83	
5.886	212372	159030	0.749	0.37	
5.931	178394	142760	0.800	0.31	
5.993	387729	361741	0.933	0.69	
6.024	1033328	930992	0.901	1.83	7 Aroclor 1254
6.055	1388597	1212883	0.873	2.47	
6.169	304206	200658	0.660	0.54	
6.226	125263	138194	1.103	0.22	
6.241	206735	168867	0.817	0.36	
6.299	2134076	1764323	0.827	3.79	7 Aroclor 1254
6.332	204860	190184	0.928	0.36	
6.373	104734	73526	0.702	0.18	
6.431	219947	169846	0.772	0.39	
6.509	502807	439246	0.874	0.89	
6.534	428716	403690	0.942	0.76	
6.560	141186	128744	0.912	0.25	
6.604	86681	61592	0.711	0.15	
6.663	42353	29559	0.698	0.07	
6.716	147652	114229	0.774	0.26	
6.758	204441	169443	0.829	0.36	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.801	264561	238804	0.903	0.47	
6.840	116184	79360	0.683	0.20	
6.911	20732	20015	0.965	0.03	
6.941	172249	156465	0.908	0.30	
7.004	441426	415542	0.941	0.78	8 Aroclor 1260
7.034	33689	42392	1.258	0.05	
7.077	18563	10637	0.573	0.03	
7.118	27991	15750	0.563	0.04	
7.250	262604	228462	0.870	0.46	8 Aroclor 1260
7.281	100444	76490	0.762	0.17	
7.336	22629	18232	0.806	0.04	
7.389	152230	135724	0.892	0.27	
7.441	170134	143262	0.842	0.30	8 Aroclor 1260
7.476	5399	11701	2.167	0.00	
7.548	13161	12839	0.976	0.02	
7.632	19321	8379	0.434	0.03	
7.689	46057	42275	0.918	0.08	
7.725	66008	53347	0.808	0.11	
7.769	22071	12828	0.581	0.03	
7.808	51906	30982	0.597	0.09	
7.868	9715	9541	0.982	0.01	
7.898	122690	102230	0.833	0.21	8 Aroclor 1260
7.960	26565	14072	0.530	0.04	
8.047	32431	29428	0.907	0.05	
8.274	142264	129504	0.910	0.25	
8.376	16672	13487	0.809	0.02	
8.570	10248751	8905105	0.869	18.24	$ 12 Decachlorobiphenyl
8.728	15876	10520	0.663	0.02	
8.943	9232	7664	0.830	0.01	
9.051	9732	7816	0.803	0.01	
9.166	34629	27785	0.802	0.06	
9.464	11206	10397	0.928	0.01	
	56176160	49731318		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118033.D
Lab Smp Id: 40151552009 Client Smp ID: TD5-170612-01-YP-01
Inj Date : 21-MAR-2018 20:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552009,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
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	10.006	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	10376386	0.08416	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	1267181	0.54084	270	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1003295	0.24174	120	0.00- 20.00	79.18	BA
4.811	4.812	-0.001	874554	0.43080	220	0.00- 20.00	69.02	BA
4.878	4.879	-0.001	2088829	0.41466	210	0.00- 20.00	164.84	BA
5.036	5.038	-0.002	716290	0.19960	100	0.00- 20.00	56.53	BA
Average of Peak Concentrations =					180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1344309	0.25678	130	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	888288	0.20653	100	0.00- 20.00	66.08	BA
5.508	5.510	-0.002	1582074	0.20372	100	0.00- 20.00	117.69	BA
6.023	6.027	-0.004	1033327	0.21220	110	0.00- 20.00	76.87	BA
6.298	6.299	-0.001	2134076	0.32796	160	0.00- 20.00	158.75	BA
Average of Peak Concentrations =					120			
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
7.003	7.006	-0.003	441425	0.04408	22	0.00- 20.00	22.24	CO
7.249	7.251	-0.002	262603	0.05494	27	0.00- 20.00	12.31	CO
7.440	7.443	-0.003	170134	0.05836	29	0.00- 20.00	8.22	CO
7.898	7.901	-0.003	122690	0.04650	23	0.00- 20.00	5.75	CO
Average of Peak Concentrations =					25			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10248751	0.09354	47			

QC Flag Legend

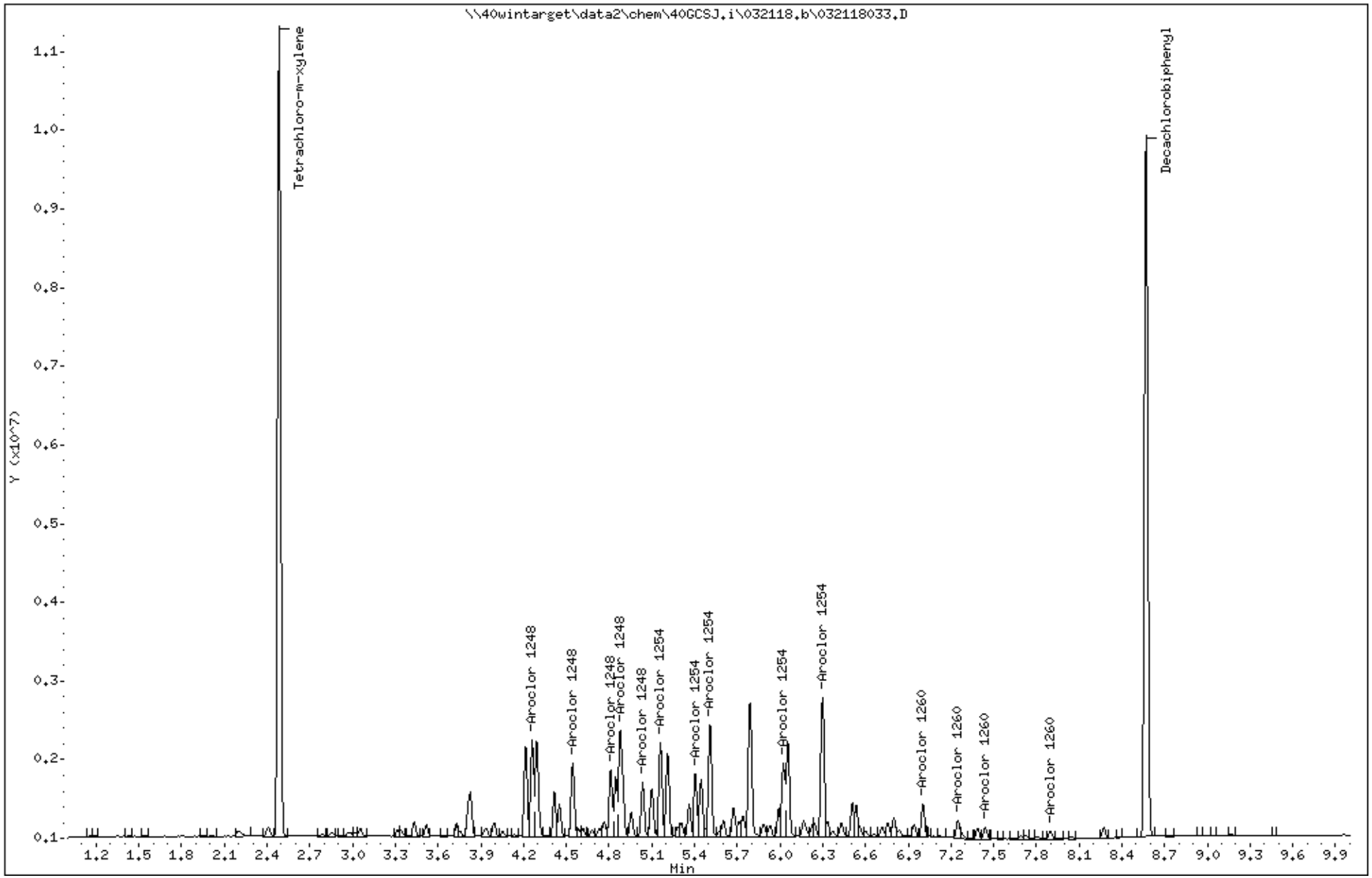
M - Compound response manually integrated.

Review Codes Legend

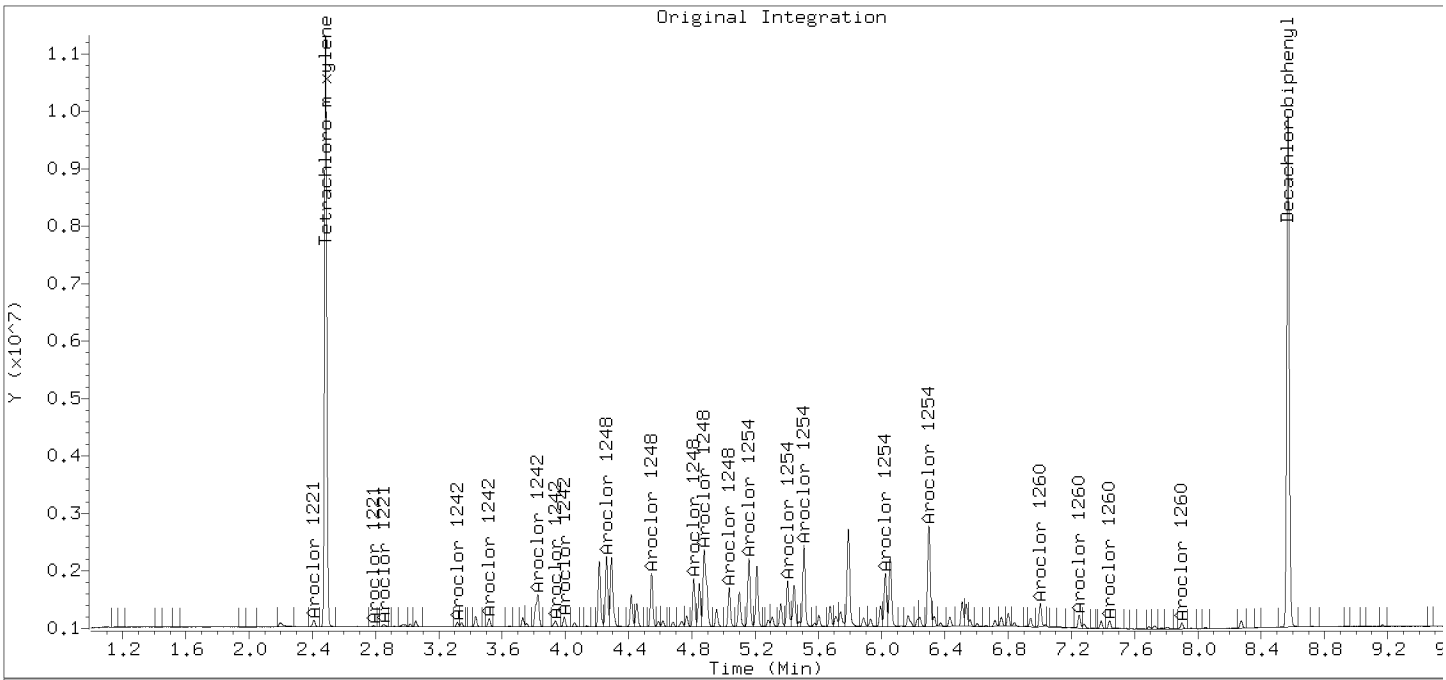
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

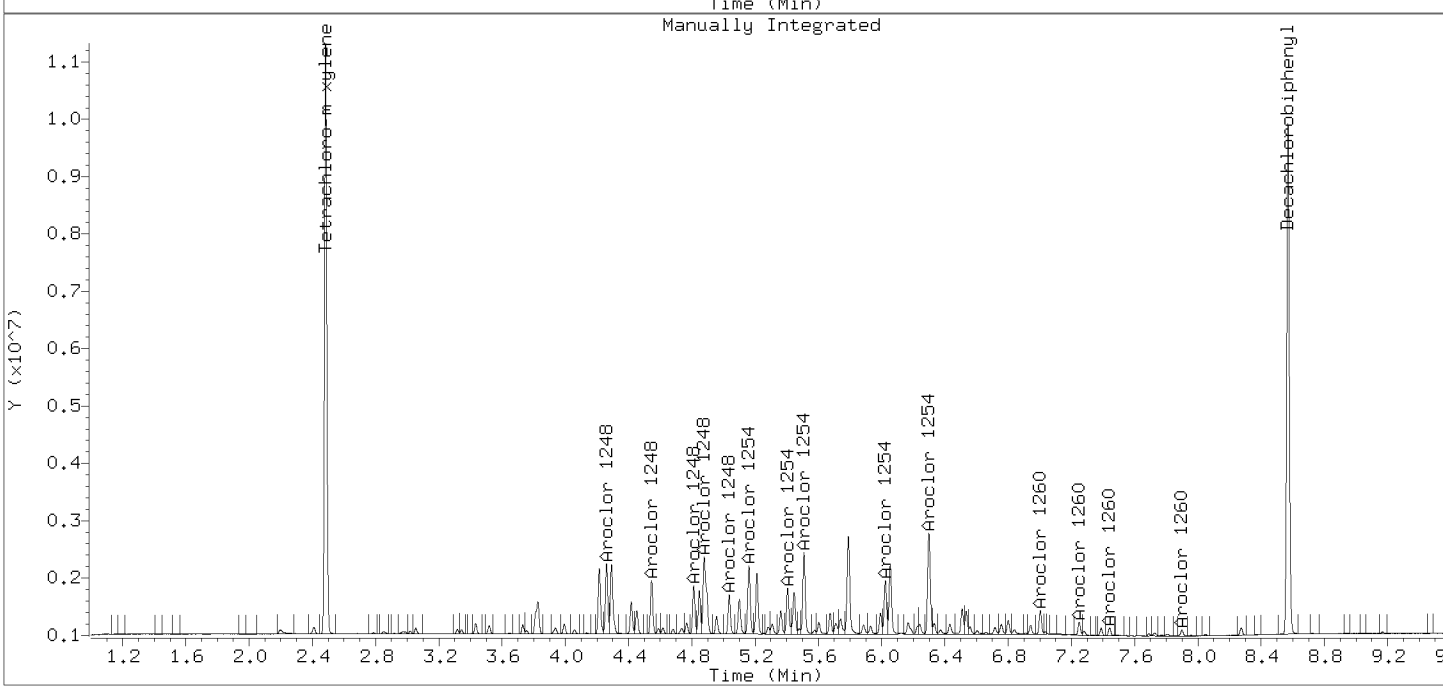
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118033.D
Date : 21-MAR-2018 20:46
Client ID: TD5-170612-01-YP-01
Sample Info: 40151552009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 20:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	77567	0	
Aroclor 1016	77567	0	
Aroclor 1016	77567	0	
Aroclor 1016	77567	0	
Aroclor 1016	77567	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	57517	0	
Aroclor 1232	57517	0	
Aroclor 1232	57517	0	
Aroclor 1232	57517	0	

Aroclor 1232	57517	0	
Aroclor 1242	77567	0	
Aroclor 1242	77567	0	
Aroclor 1242	77567	0	
Aroclor 1242	77567	0	
Aroclor 1242	77567	0	
Aroclor 1248	1261931	1267181	BA
Aroclor 1248	1261931	1267181	BA
Aroclor 1248	1261931	1267181	BA
Aroclor 1248	1261931	1267181	BA
Aroclor 1248	1261931	1267181	BA
Aroclor 1254	1316548	1344309	BA
Aroclor 1254	1316548	1344309	BA
Aroclor 1254	1316548	1344309	BA
Aroclor 1254	1316548	1344309	BA
Aroclor 1254	1316548	1344309	BA
Aroclor 1260	2098179	0	CO
Aroclor 1260	2098179	0	CO
Aroclor 1260	2098179	0	CO
Aroclor 1260	2098179	0	CO
Aroclor 1260	2098179	0	CO
Tetrachloro-m-xylene	10376386	10376386	
Decachlorobiphenyl	10248751	10248751	

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SAMPLE NO.

TD5-170612-01-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: 06/13/2017 09:30

Matrix: Tissue SDG No.: 40151552

Date Extracted: 03/13/2018 07:38

Lab Sample ID: 40151552010

Date Analyzed: 03/14/2018 17:10

Lab File ID: 031418.B\031418019.D

Initial wt/vol: 9.9677 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)	795	
11097-69-1	PCB-1254 (Aroclor 1254)	589	
11096-82-5	PCB-1260 (Aroclor 1260)	284	
1336-36-3	PCB, Total	1670	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418019.D
Lab Smp Id: 40151552010 Client Smp ID: TD5-170612-01-BB-01
Inj Date : 14-MAR-2018 17:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552010 x3,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.317	11998	7906	0.659	0.01		
2.411	44268	37908	0.856	0.06		
2.484	3838570	3721554	0.970	5.83	$ 2 Tetrachloro-m-xylene	
2.787	12685	12123	0.956	0.01		
2.850	44804	39094	0.873	0.06		
2.976	33421	24767	0.741	0.05		
3.018	24128	24049	0.997	0.03		
3.054	21257	18386	0.865	0.03		
3.318	50526	46833	0.927	0.07		
3.344	57382	54888	0.957	0.08		
3.433	137694	130047	0.944	0.20		
3.519	170649	156589	0.918	0.25		
3.645	38115	34281	0.899	0.05		
3.732	231871	196945	0.849	0.35		
3.828	1129304	801099	0.709	1.71		
3.995	167310	155567	0.930	0.25		
4.060	62274	53081	0.852	0.09		
4.137	15678	14024	0.895	0.02		
4.216	534391	425020	0.795	0.81		
4.261	1258812	1203360	0.956	1.91	6 Aroclor 1248	BA
4.292	3796220	3266134	0.860	5.77		
4.348	39237	29176	0.744	0.05		
4.417	574634	549930	0.957	0.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.453	352273	325426	0.924	0.53	
4.547	1602141	1499344	0.936	2.43	6 Aroclor 1248
4.589	387084	369312	0.954	0.58	
4.617	115585	108895	0.942	0.17	
4.680	225922	207401	0.918	0.34	
4.738	237770	211587	0.890	0.36	
4.768	805158	775771	0.964	1.22	
4.813	1693981	1589696	0.938	2.57	6 Aroclor 1248
4.848	315915	306154	0.969	0.48	
4.879	3078798	1984353	0.645	4.67	6 Aroclor 1248
4.957	550320	470933	0.856	0.83	
5.038	979802	914113	0.933	1.48	6 Aroclor 1248
5.102	1590441	1390887	0.875	2.41	
5.159	1388233	1218082	0.877	2.11	7 Aroclor 1254
5.213	1486024	1260971	0.849	2.25	
5.284	352459	347096	0.985	0.53	
5.307	652452	560425	0.859	0.99	
5.363	550386	513032	0.932	0.83	
5.407	1567265	1410612	0.900	2.38	7 Aroclor 1254
5.448	1076596	895591	0.832	1.63	
5.479	110636	128605	1.162	0.16	
5.511	2642563	2343921	0.887	4.01	7 Aroclor 1254
5.578	144100	133578	0.927	0.21	
5.605	359919	325711	0.905	0.54	
5.675	688330	640735	0.931	1.04	
5.709	467905	404425	0.864	0.71	
5.742	792926	634425	0.800	1.20	
5.792	3695195	3036368	0.822	5.61	
5.886	445853	361580	0.811	0.67	
5.932	546410	467791	0.856	0.83	
5.993	1040660	977184	0.939	1.58	
6.025	1861613	1582196	0.850	2.82	7 Aroclor 1254
6.057	1337612	1144231	0.855	2.03	
6.169	540415	381798	0.706	0.82	
6.226	213075	250307	1.175	0.32	
6.242	381255	309323	0.811	0.57	
6.302	3944121	3203230	0.812	6.55	7 Aroclor 1254
6.334	324224	304627	0.940	0.49	
6.375	157030	138310	0.881	0.23	
6.433	622729	559936	0.899	0.94	
6.511	1303397	1149879	0.882	1.98	
6.536	613915	579999	0.945	0.93	
6.561	278971	258121	0.925	0.42	
6.604	140988	127638	0.905	0.21	
6.660	77339	71480	0.924	0.11	
6.720	384990	331946	0.862	0.58	
6.759	503281	469190	0.932	0.76	
6.802	529832	478770	0.904	0.80	
6.839	287805	232211	0.807	0.43	
6.913	64179	59896	0.933	0.09	
6.944	261967	250126	0.955	0.39	
7.006	1389640	1285530	0.925	2.11	8 Aroclor 1260
7.036	127498	116277	0.912	0.19	
7.076	22819	22619	0.991	0.03	
7.121	60296	48209	0.800	0.09	
7.182	10807	9049	0.837	0.01	
7.222	11474	11166	0.973	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.252	621654	584355	0.940	0.94	8 Aroclor 1260
7.282	216636	185786	0.858	0.32	
7.341	13338	12365	0.927	0.02	
7.390	649236	554955	0.855	0.98	
7.443	717341	627299	0.874	1.09	8 Aroclor 1260
7.553	50734	39834	0.785	0.07	
7.690	187623	169038	0.901	0.28	
7.729	210481	163652	0.778	0.31	
7.805	97816	63837	0.653	0.14	
7.901	635718	572823	0.901	0.96	8 Aroclor 1260
7.964	64557	48704	0.754	0.09	
8.050	112788	95093	0.843	0.17	
8.175	12361	8982	0.727	0.01	
8.276	577681	541250	0.937	0.87	
8.380	18789	13718	0.730	0.02	
8.454	18504	15260	0.825	0.02	
8.573	3698921	3219085	0.870	5.62	$ 12 Decachlorobiphenyl
8.730	24032	17710	0.737	0.03	
8.994	14755	11140	0.755	0.02	
9.056	37921	17435	0.460	0.05	
9.170	90003	81785	0.909	0.13	
9.965	27368	15585	0.569	0.04	
	65787858	57252520		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418019.D
Lab Smp Id: 40151552010 Client Smp ID: TD5-170612-01-BB-01
Inj Date : 14-MAR-2018 17:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552010 x3,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	9.968	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	3838570	0.03113		47		

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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			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1258812	0.53727	810	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1602140	0.38603	580	0.00- 20.00	127.27	BA
4.813	4.812	0.001	1693981	0.83444	1200	0.00- 20.00	134.57	BA
4.878	4.879	-0.001	3078798	0.61118	920	0.00- 20.00	244.58	BA
5.037	5.038	-0.001	979802	0.27304	410	0.00- 20.00	77.84	BA
Average of Peak Concentrations =					800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1388232	0.26517	400	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1567265	0.36439	550	0.00- 20.00	112.90	BA
5.510	5.510	0.000	2642562	0.34027	510	0.00- 20.00	190.35	BA
6.024	6.027	-0.003	1861612	0.38229	580	0.00- 20.00	134.10	BA
6.302	6.299	0.003	3944120	0.60613	910	0.00- 20.00	284.11	BA
Average of Peak Concentrations =					590			
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
7.005	7.006	-0.001	1389639	0.13876	210	0.00- 20.00	35.23	BA
7.251	7.251	0.000	621654	0.13006	200	0.00- 20.00	15.76	BA
7.442	7.443	-0.001	717341	0.24608	370	0.00- 20.00	18.19	BA
7.901	7.901	0.000	635718	0.24092	360	0.00- 20.00	16.12	BA
Average of Peak Concentrations =					280			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	3698921	0.03376	51			

QC Flag Legend

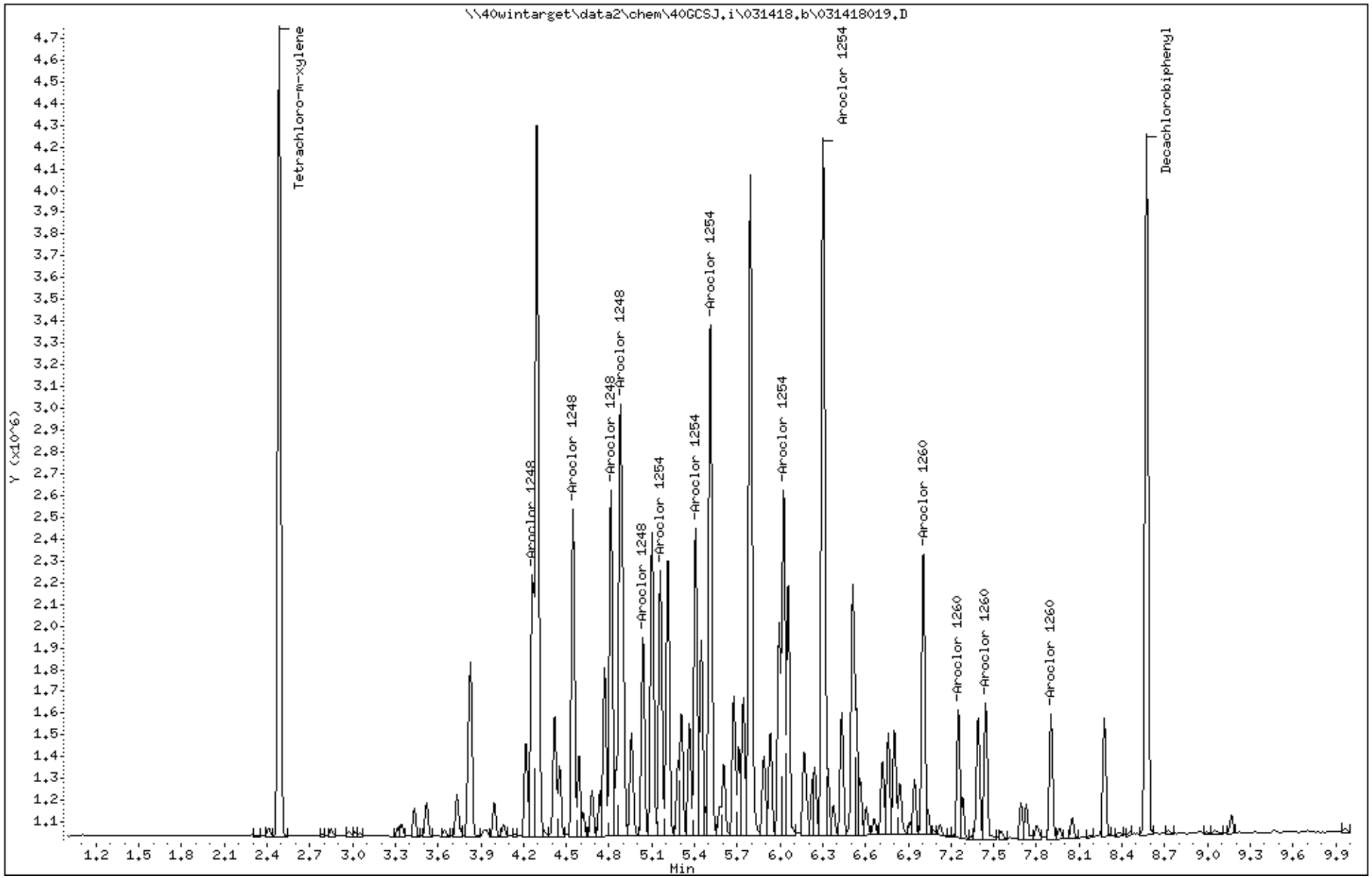
M - Compound response manually integrated.

Review Codes Legend

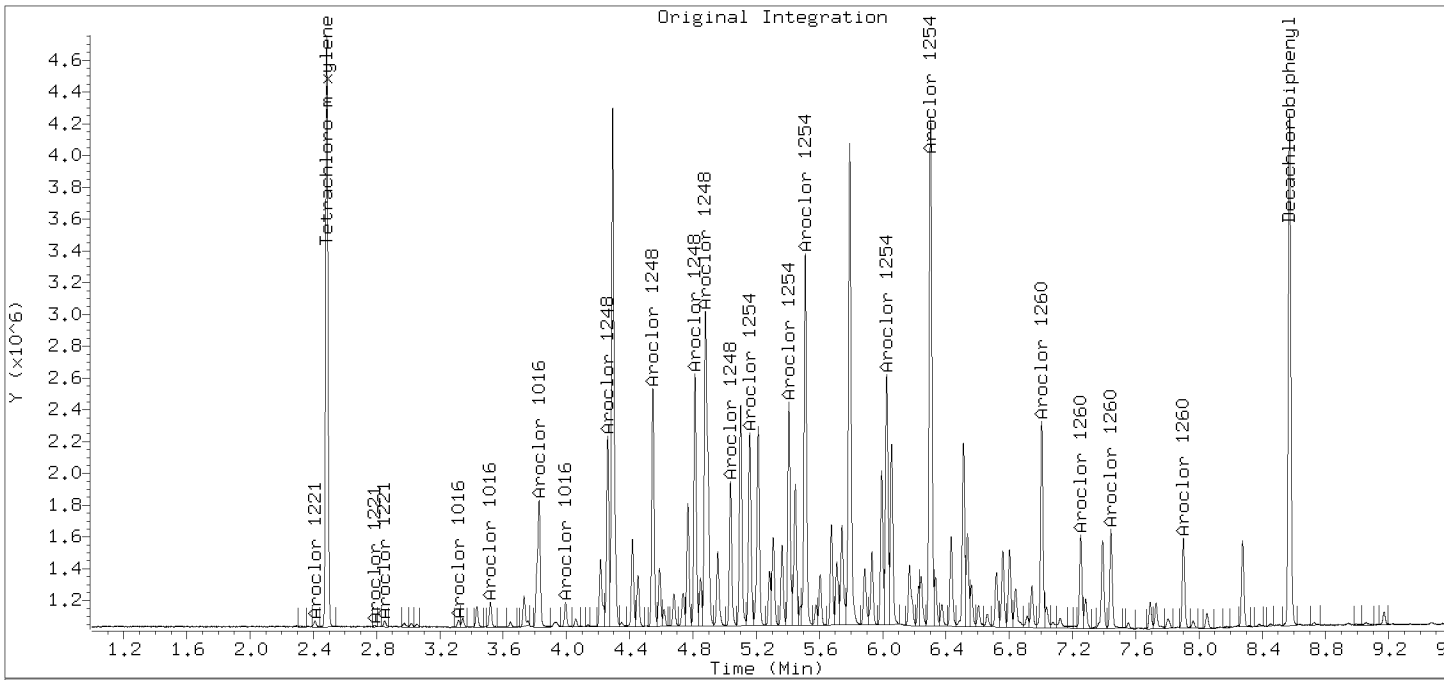
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

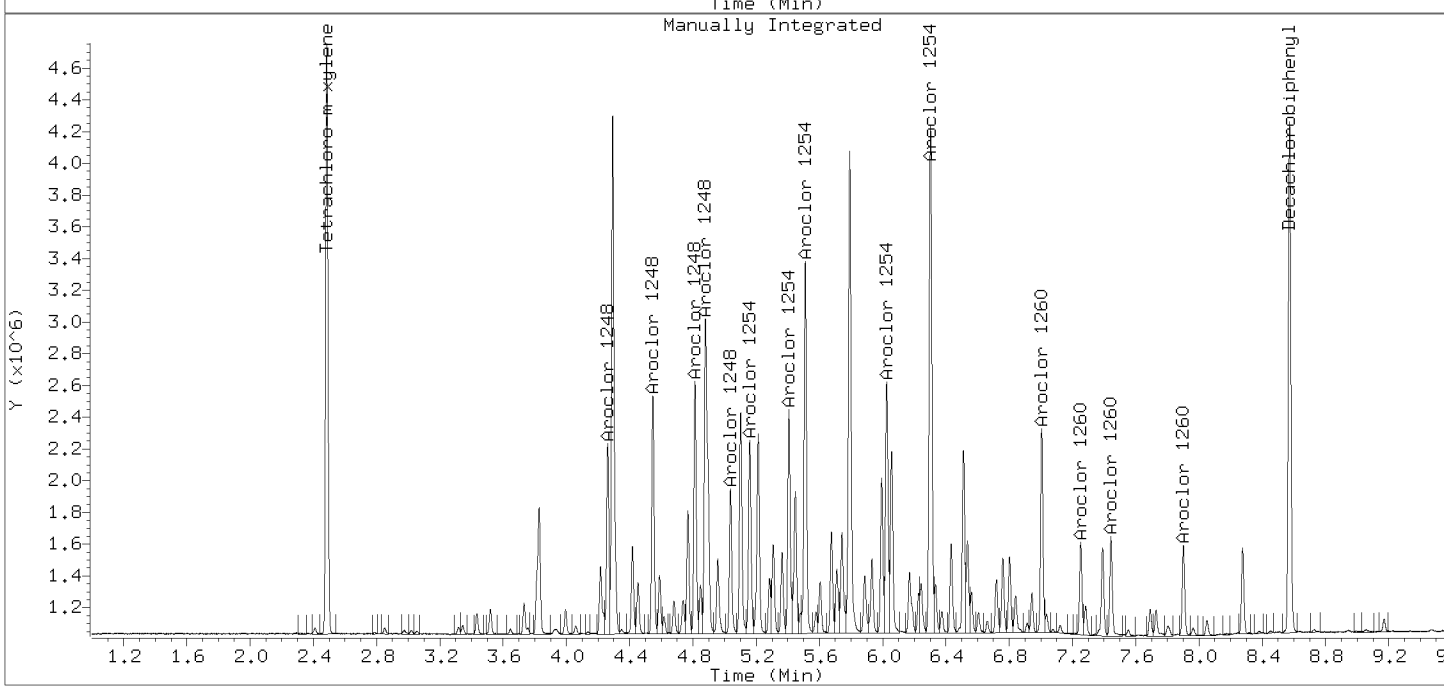
Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418019.D
Date : 14-MAR-2018 17:10
Client ID: TD5-170612-01-BB-01
Sample Info: 40151552010 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 14-MAR-2018 17:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	50526	0	
Aroclor 1016	50526	0	
Aroclor 1016	50526	0	
Aroclor 1016	50526	0	
Aroclor 1016	50526	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	1250598	1258812	BA
Aroclor 1248	1250598	1258812	BA
Aroclor 1248	1250598	1258812	BA
Aroclor 1248	1250598	1258812	BA
Aroclor 1248	1250598	1258812	BA
Aroclor 1254	1371746	1388232	BA
Aroclor 1254	1371746	1388232	BA
Aroclor 1254	1371746	1388232	BA
Aroclor 1254	1371746	1388232	BA
Aroclor 1254	1371746	1388232	BA
Aroclor 1260	3942410	0	BA
Aroclor 1260	3942410	0	BA
Aroclor 1260	3942410	0	BA
Aroclor 1260	3942410	0	BA
Aroclor 1260	3942410	0	BA
Tetrachloro-m-xylene	3838570	3838570	
Decachlorobiphenyl	3698921	3698921	

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SAMPLE NO.

TD3-170612-01-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: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/22/2018 07:22
Lab Sample ID: 40151552011
Date Analyzed: 03/23/2018 14:45
Lab File ID: 032318.B\032318009.D
Initial wt/vol: 9.9626 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	1040	
11097-69-1	PCB-1254 (Aroclor 1254)	562	
11096-82-5	PCB-1260 (Aroclor 1260)	56.8	J
1336-36-3	PCB, Total	1650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318009.D
Lab Smp Id: 40151552011 Client Smp ID: TD3-170612-01-YP-01
Inj Date : 23-MAR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552011 x4,
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: 9
Dil Factor: 4.00000
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	4.000	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	9.963	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	38664	29393	0.760	0.08		
2.484	2720232	2620169	0.963	6.21	$ 2 Tetrachloro-m-xylene	
2.850	18122	16417	0.906	0.04		
2.979	14948	9411	0.630	0.03		
3.018	11258	14442	1.283	0.02		
3.054	38549	37246	0.966	0.08		
3.316	49461	48240	0.975	0.11		
3.344	60880	58478	0.961	0.13		
3.434	67367	60714	0.901	0.15		
3.519	140082	124255	0.887	0.31		
3.646	18975	12436	0.655	0.04		
3.733	69203	61541	0.889	0.15		
3.756	50431	49310	0.978	0.11		
3.826	883582	621258	0.703	2.01		
3.935	173248	120532	0.696	0.39		
3.993	250221	235476	0.941	0.57		
4.058	125784	115944	0.922	0.28		
4.136	33966	26536	0.781	0.07		
4.215	1411546	1306085	0.925	3.22		
4.260	1418744	1340729	0.945	3.23	6 Aroclor 1248	BA
4.292	1306205	1058821	0.811	2.98		
4.417	1024676	954741	0.932	2.33		
4.452	703886	641659	0.912	1.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.544	1459561	1367202	0.937	3.33	6 Aroclor 1248
4.588	52595	49880	0.948	0.12	
4.616	183737	165802	0.902	0.41	
4.678	71682	57860	0.807	0.16	
4.729	123195	86417	0.701	0.28	
4.768	204586	191502	0.936	0.46	
4.812	1151178	1108838	0.963	2.62	6 Aroclor 1248
4.847	1152905	1105099	0.959	2.63	
4.878	3177297	1999609	0.629	7.72	6 Aroclor 1248
4.956	408318	347126	0.850	0.93	
5.036	1527123	1387729	0.909	3.48	6 Aroclor 1248
5.099	780535	650376	0.833	1.78	
5.161	1555759	1378594	0.886	3.55	7 Aroclor 1254
5.211	1158712	1028527	0.888	2.64	
5.284	101173	95991	0.949	0.23	
5.307	210568	175312	0.833	0.48	
5.362	641426	563316	0.878	1.46	
5.406	1182895	1047628	0.886	2.70	7 Aroclor 1254
5.445	745531	655306	0.879	1.70	
5.481	106796	105871	0.991	0.24	
5.509	2227132	1949057	0.875	5.08	7 Aroclor 1254
5.573	56367	38295	0.679	0.12	
5.603	356346	311076	0.873	0.81	
5.674	297208	275279	0.926	0.67	
5.711	304136	205906	0.677	0.69	
5.741	283399	240609	0.849	0.64	
5.789	2430369	1826544	0.752	5.54	
5.884	271019	168850	0.623	0.61	
5.929	87206	65672	0.753	0.19	
5.993	233862	222367	0.951	0.53	
6.024	1351970	1145771	0.847	3.08	7 Aroclor 1254
6.054	1014502	885080	0.872	2.31	
6.126	35522	22562	0.635	0.08	
6.168	341492	244220	0.715	0.77	
6.226	128744	133211	1.035	0.29	
6.241	164060	133282	0.812	0.37	
6.298	1712499	1386115	0.809	3.90	7 Aroclor 1254
6.332	220430	191436	0.868	0.50	
6.372	121075	93832	0.775	0.27	
6.432	102490	68805	0.671	0.23	
6.508	393317	362535	0.922	0.89	
6.534	319514	278268	0.871	0.72	
6.559	109803	102162	0.930	0.25	
6.603	77126	46538	0.603	0.17	
6.659	42735	31660	0.741	0.09	
6.717	167231	145932	0.873	0.38	
6.757	145322	118634	0.816	0.33	
6.800	249176	217539	0.873	0.56	
6.839	80072	61025	0.762	0.18	
6.941	74607	61881	0.829	0.17	
7.003	270778	242642	0.896	0.61	8 Aroclor 1260
7.034	28831	32735	1.135	0.06	
7.249	160589	139450	0.868	0.36	8 Aroclor 1260
7.280	77615	55806	0.719	0.17	
7.337	18349	13899	0.757	0.04	
7.387	96187	84522	0.879	0.21	
7.442	98207	81768	0.833	0.22	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.688	26211	27301	1.042	0.05	
7.725	34741	25896	0.745	0.07	
7.803	23947	14479	0.605	0.05	
7.899	49838	41453	0.832	0.11	8 Aroclor 1260
8.049	21473	18259	0.850	0.04	
8.273	59562	52349	0.879	0.13	
8.569	2797592	2383654	0.852	6.38	$ 12 Decachlorobiphenyl
8.939	12037	8188	0.680	0.02	
	43800289	37388362		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318009.D
Lab Smp Id: 40151552011 Client Smp ID: TD3-170612-01-YP-01
Inj Date : 23-MAR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151552011 x4,
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: 9
Dil Factor: 4.00000
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	4.000	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	9.963	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

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	2720232	0.02206	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	1418744	0.60553	1200	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1459560	0.35168	700	0.00- 20.00	102.88	BA
4.811	4.812	-0.001	1151178	0.56706	1100	0.00- 20.00	81.14	BA
4.877	4.879	-0.002	3177297	0.63074	1300	0.00- 20.00	223.95	BA
5.036	5.038	-0.002	1527122	0.42555	850	0.00- 20.00	107.64	BA
Average of Peak Concentrations =					1000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1555758	0.29717	600	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1182894	0.27502	550	0.00- 20.00	76.03	BA
5.509	5.510	-0.001	2227131	0.28678	580	0.00- 20.00	143.15	BA
6.023	6.027	-0.004	1351970	0.27763	560	0.00- 20.00	86.90	BA
6.298	6.299	-0.001	1712498	0.26317	530	0.00- 20.00	110.07	BA
Average of Peak Concentrations =					560			
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
7.003	7.006	-0.003	270777	0.02704	54	0.00- 20.00	17.47	CO
7.248	7.251	-0.003	160588	0.03360	67	0.00- 20.00	9.38	CO
7.442	7.443	-0.001	98206	0.03369	68	0.00- 20.00	5.73	CO
7.898	7.901	-0.003	49838	0.01889	38	0.00- 20.00	2.91	CO
Average of Peak Concentrations =					57			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2797592	0.02553	51			

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\032318.b\032318009.D

Date : 23-MAR-2018 14:45

Client ID: TD3-170612-01-YP-01

Instrument: 40GCSJ.i

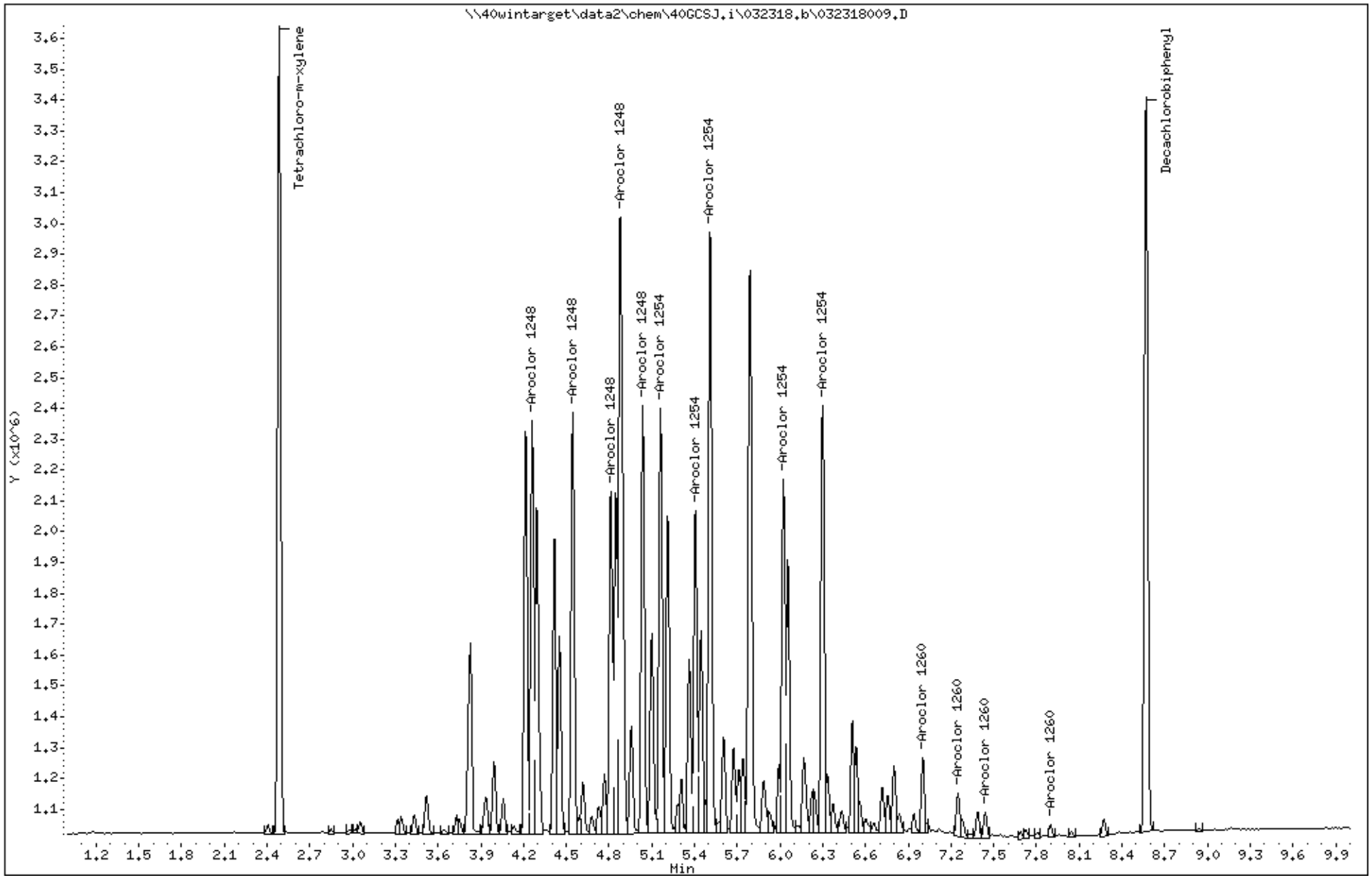
Sample Info: 40151552011 x4,

Volume Injected (uL): 1.0

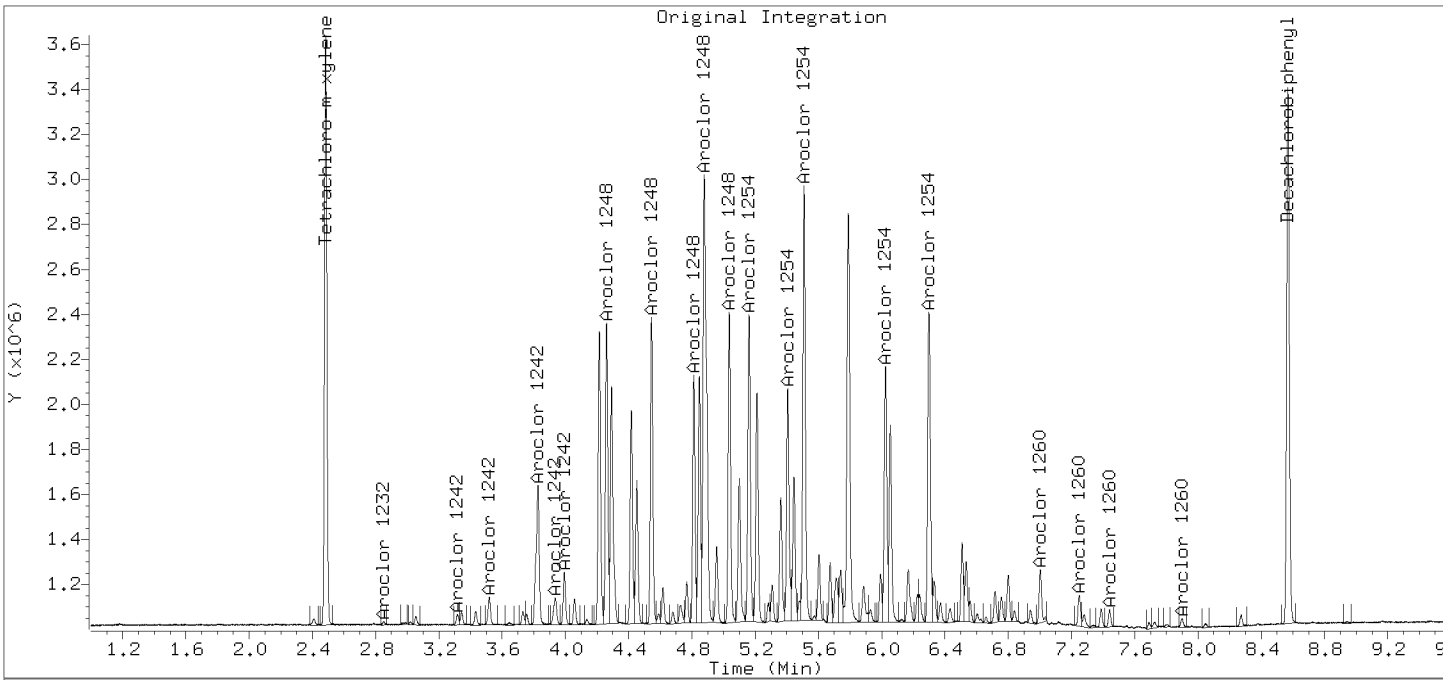
Operator: BLM

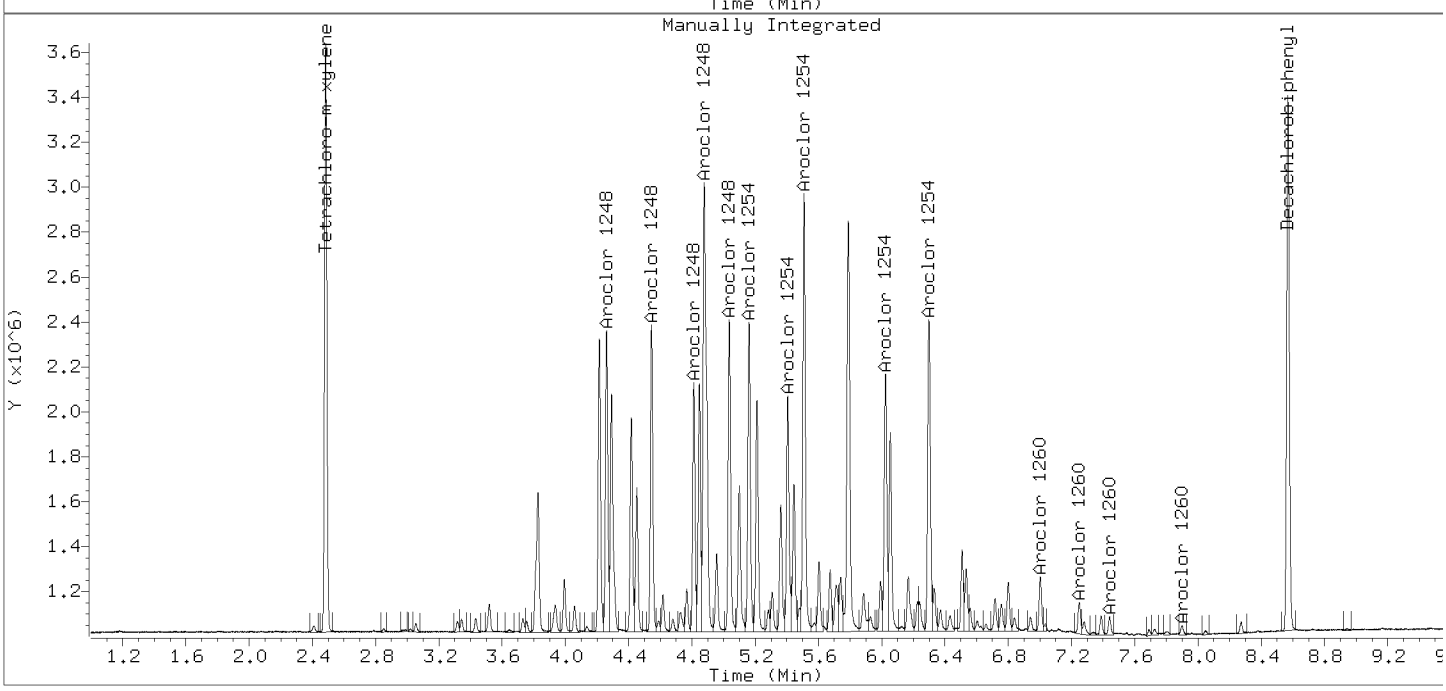
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b/032318009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 23-MAR-2018 14:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151552011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	49461	0	
Aroclor 1016	49461	0	
Aroclor 1016	49461	0	
Aroclor 1016	49461	0	
Aroclor 1016	49461	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	18122	0	
Aroclor 1232	18122	0	
Aroclor 1232	18122	0	
Aroclor 1232	18122	0	

Aroclor 1232	18122	0	
Aroclor 1242	49461	0	
Aroclor 1242	49461	0	
Aroclor 1242	49461	0	
Aroclor 1242	49461	0	
Aroclor 1242	49461	0	
Aroclor 1248	1405470	1418744	BA
Aroclor 1248	1405470	1418744	BA
Aroclor 1248	1405470	1418744	BA
Aroclor 1248	1405470	1418744	BA
Aroclor 1248	1405470	1418744	BA
Aroclor 1254	1513578	1555758	BA
Aroclor 1254	1513578	1555758	BA
Aroclor 1254	1513578	1555758	BA
Aroclor 1254	1513578	1555758	BA
Aroclor 1254	1513578	1555758	BA
Aroclor 1260	1685044	0	CO
Aroclor 1260	1685044	0	CO
Aroclor 1260	1685044	0	CO
Aroclor 1260	1685044	0	CO
Aroclor 1260	1685044	0	CO
Tetrachloro-m-xylene	2720232	2720232	
Decachlorobiphenyl	2797592	2797592	

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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.: 40151552

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.: 40151552

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.: 40151552

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.: 40151552

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.: 40151552

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.: 40151552

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.: 40151552

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.

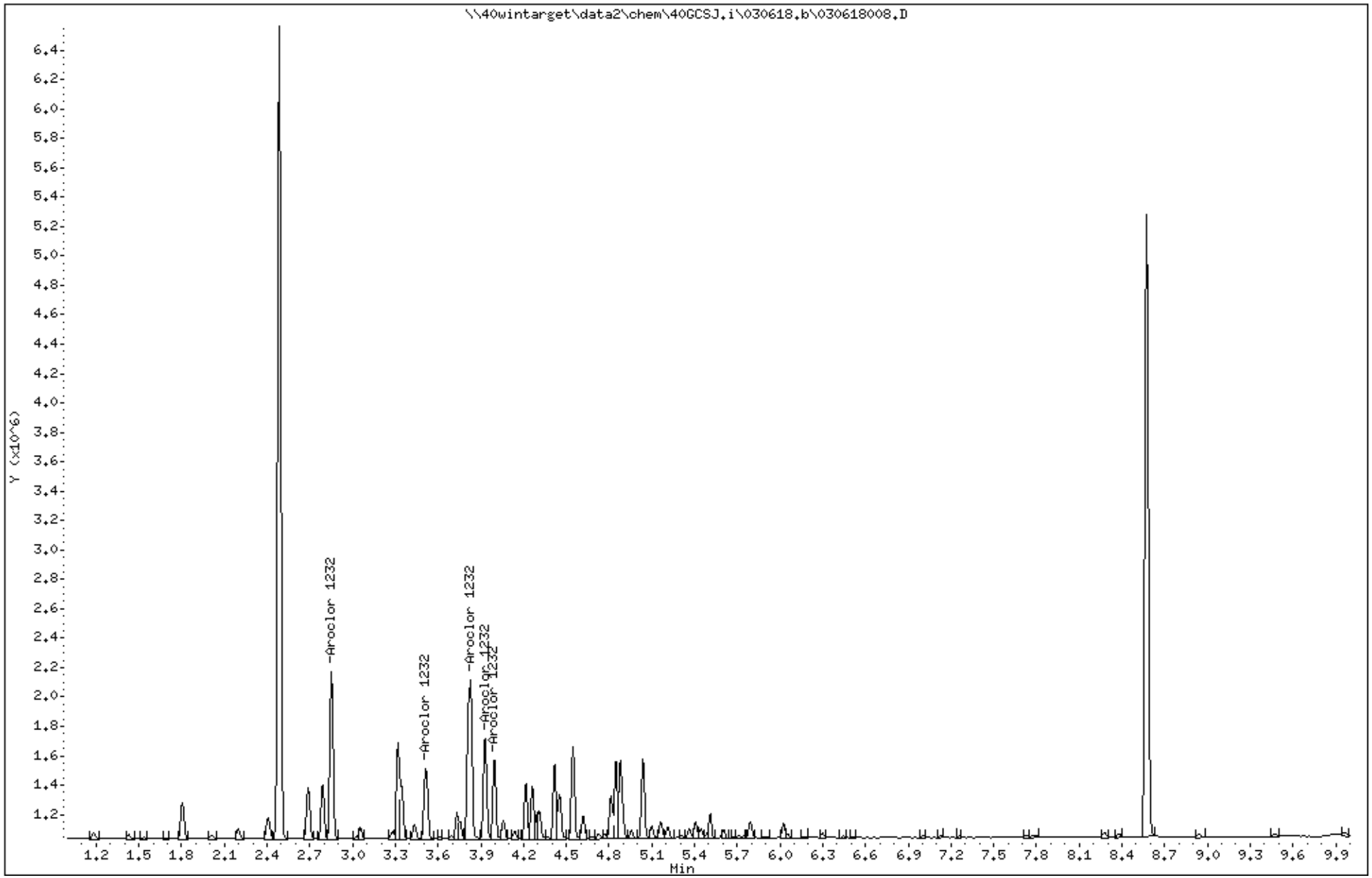
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

Column phase: ZB-1ms

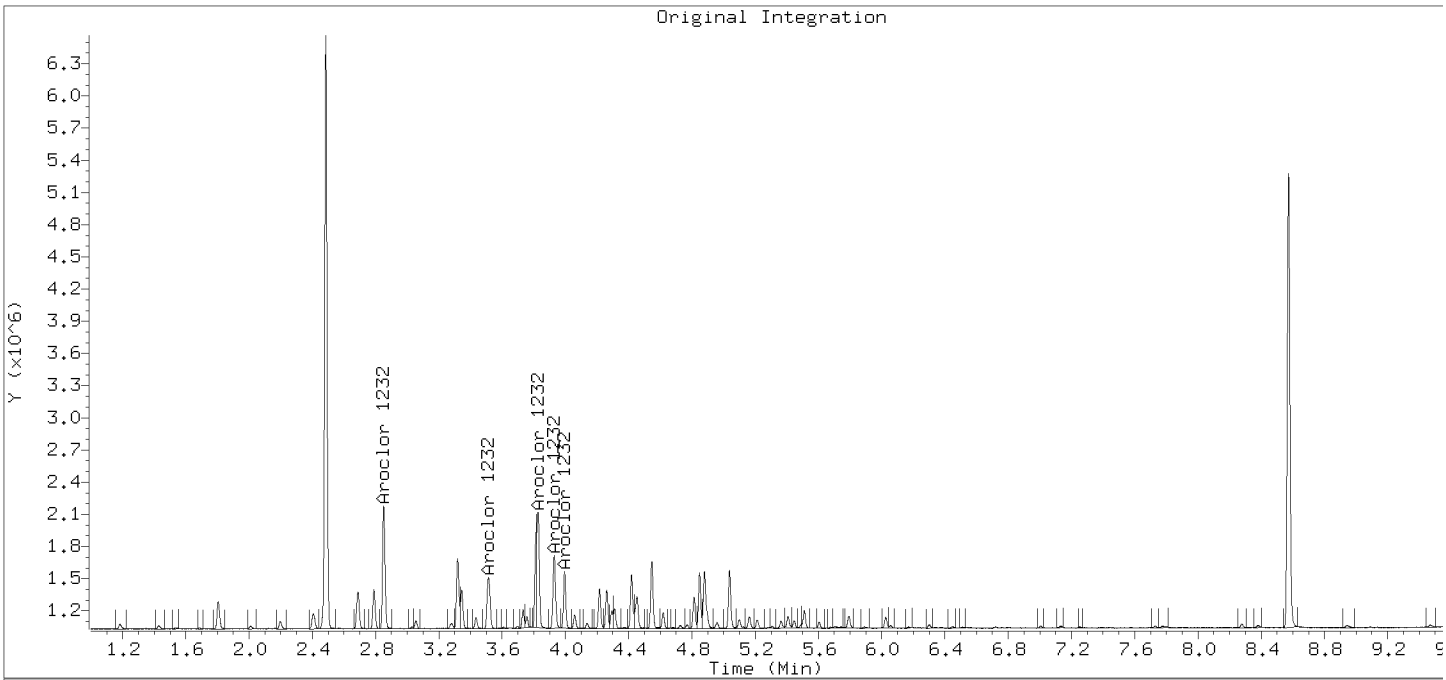
Instrument: 40GCSJ.i

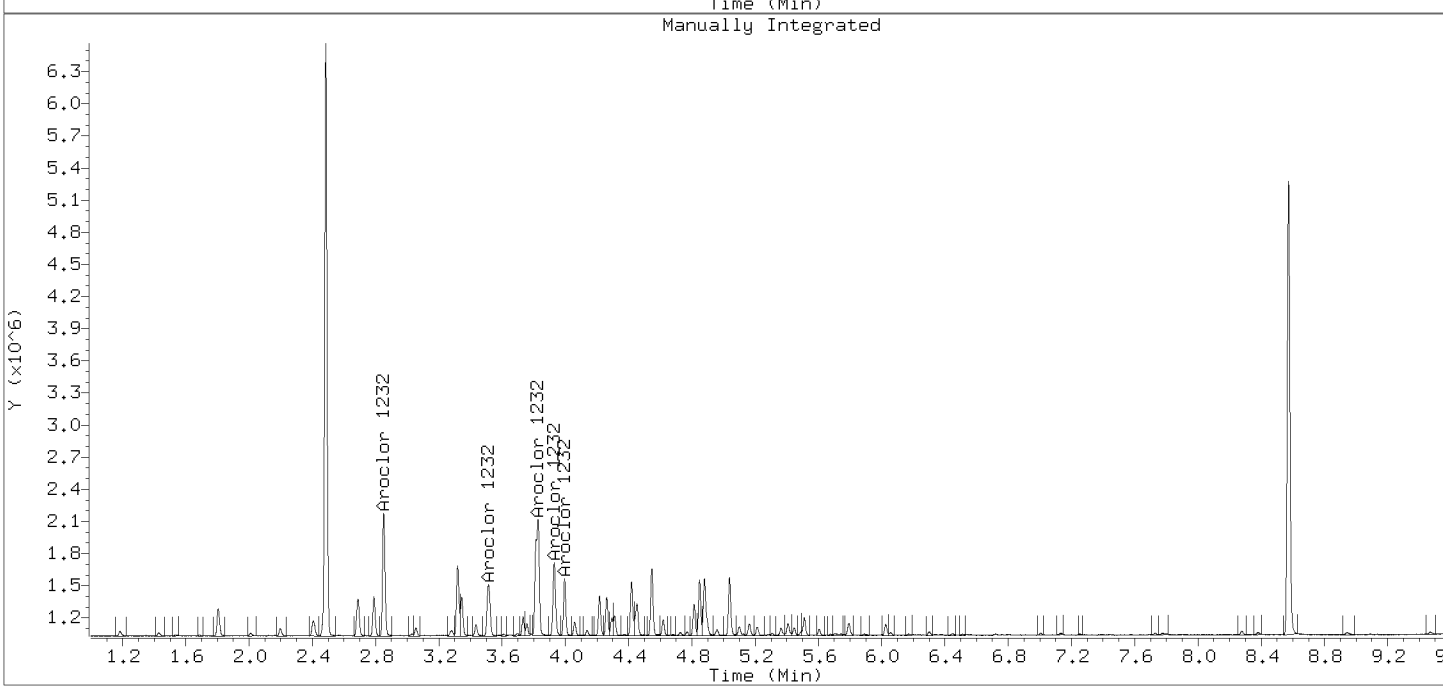
Operator: BLM

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

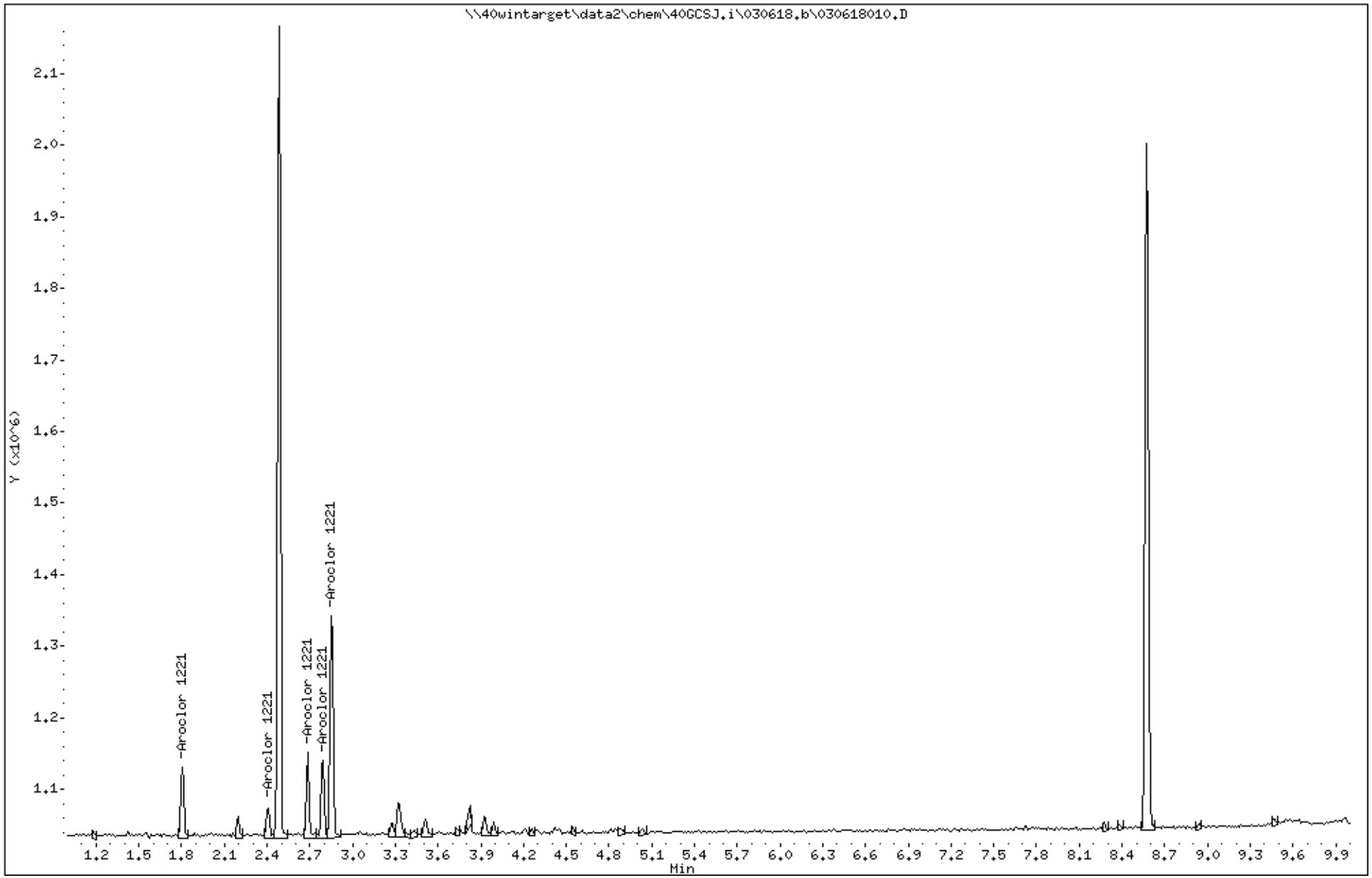
M - Compound response manually integrated.

Review Codes Legend

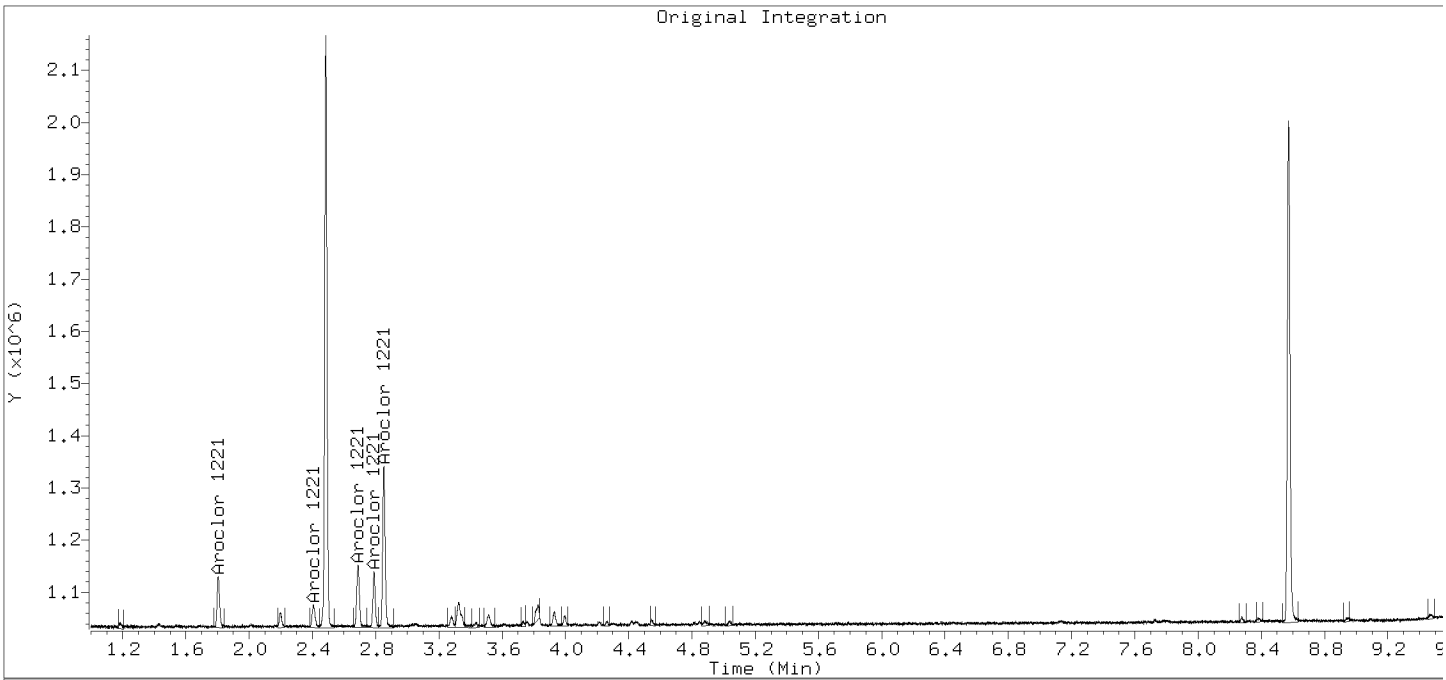
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

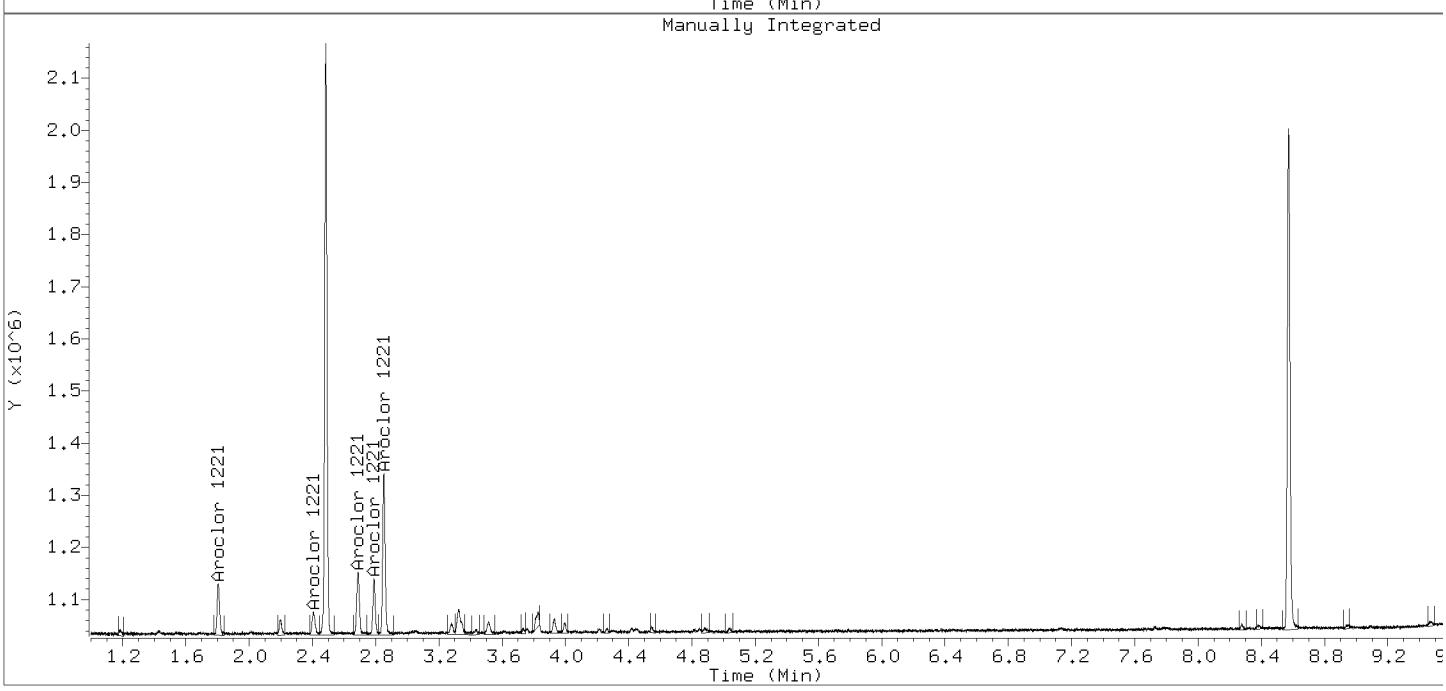
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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

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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

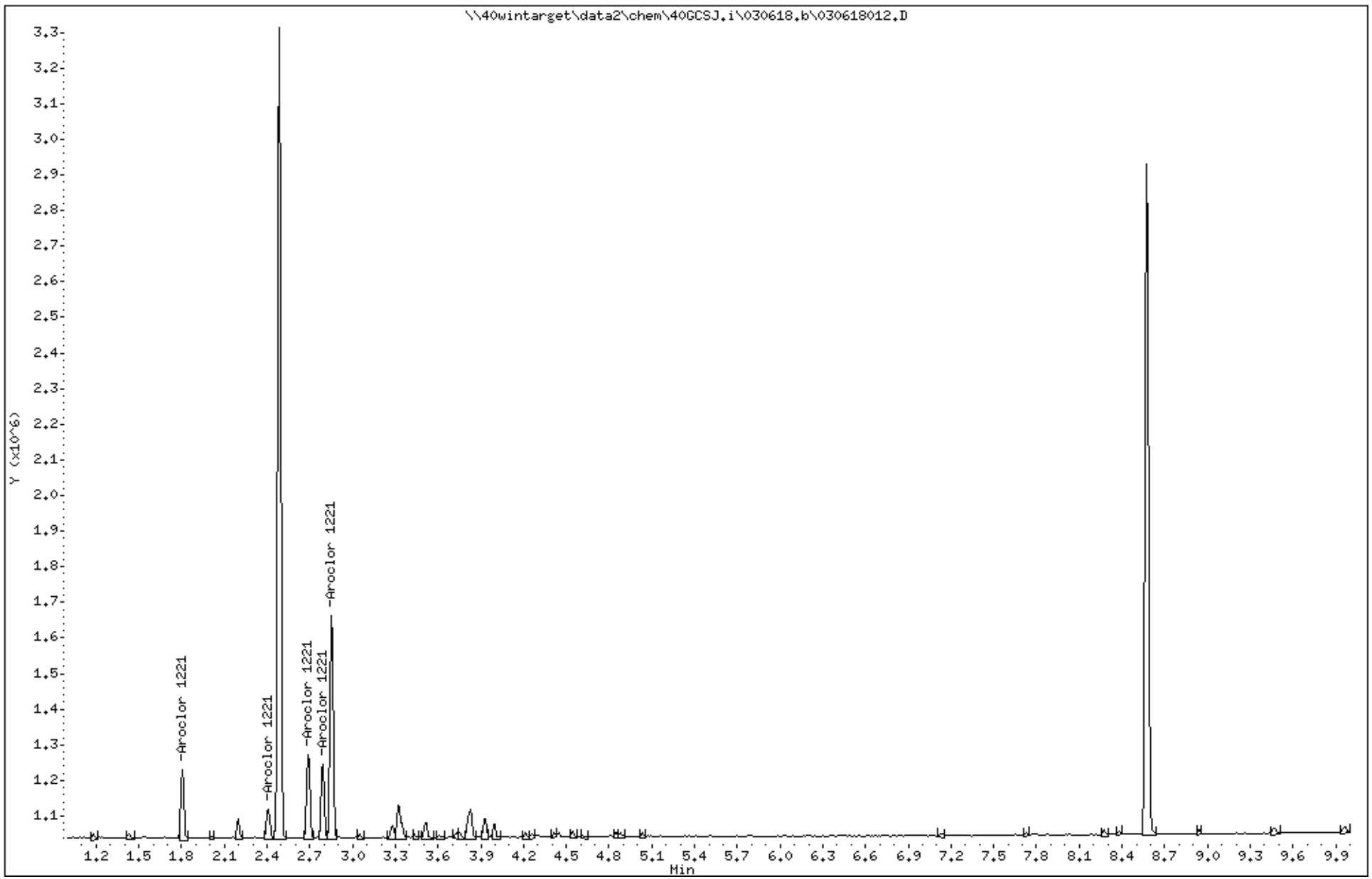
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

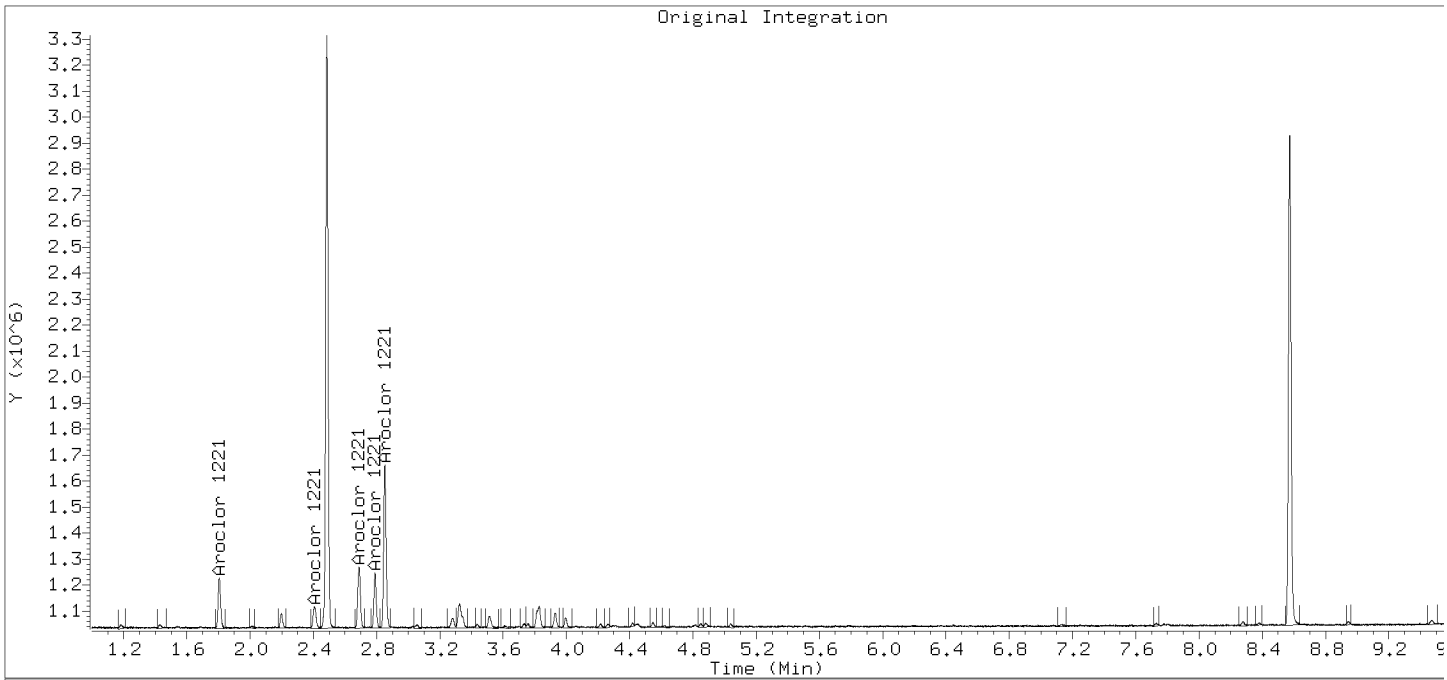
Operator: BLM

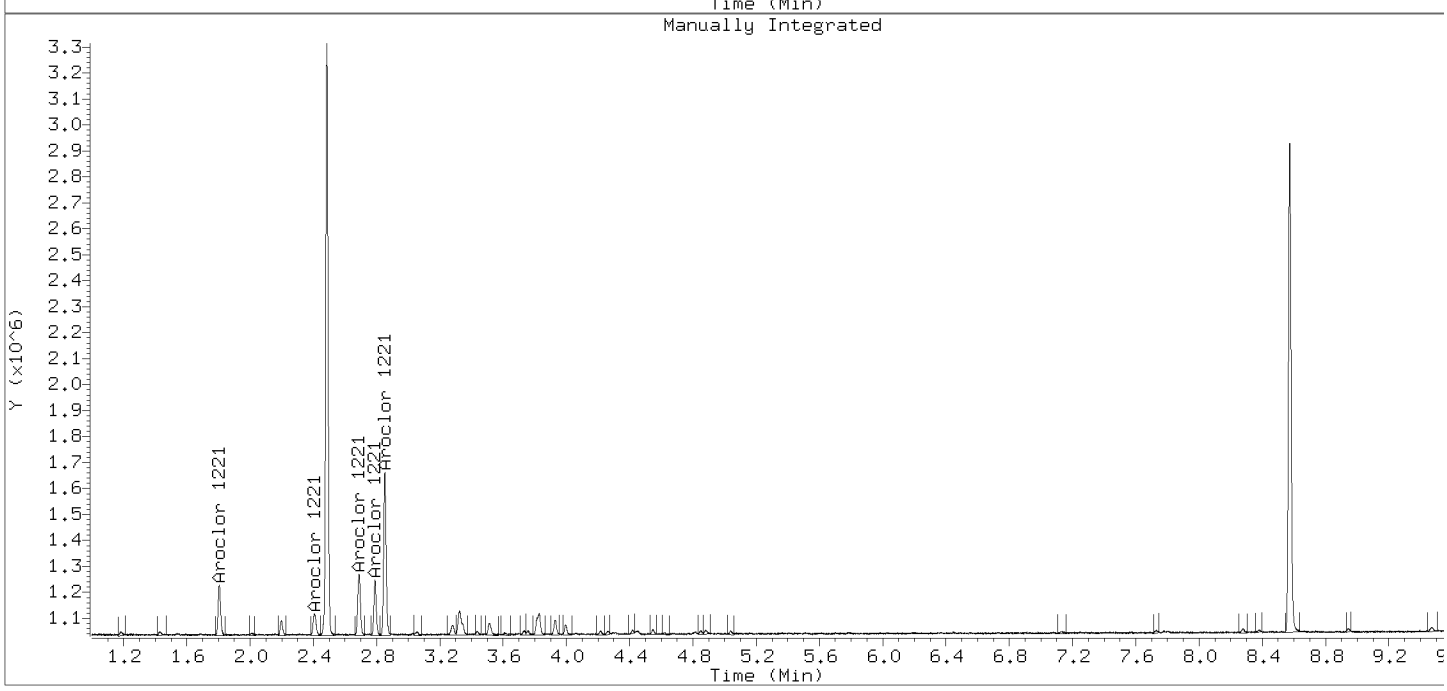
Column phase: ZB-1ms

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.

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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.

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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

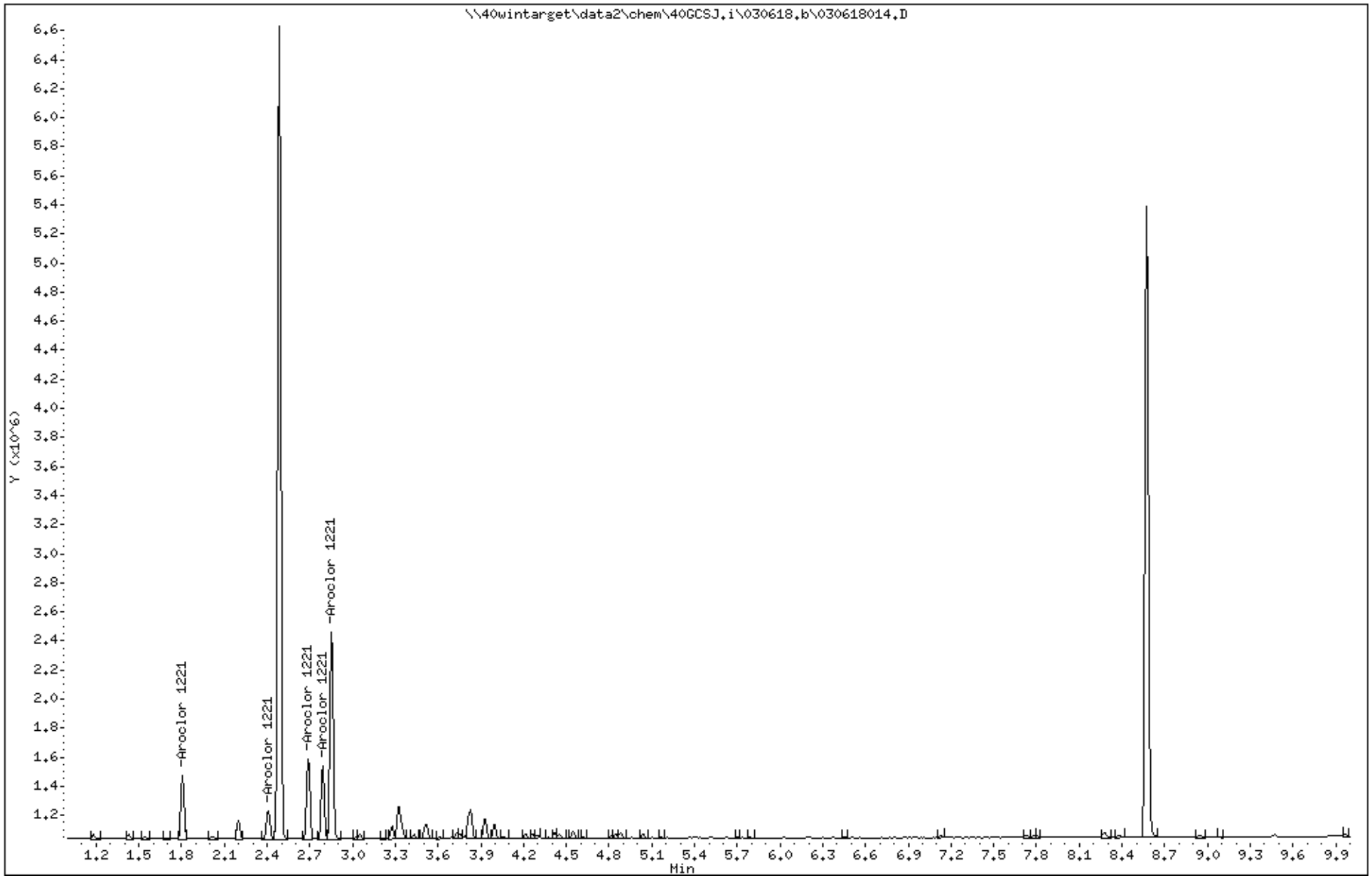
M - Compound response manually integrated.

Review Codes Legend

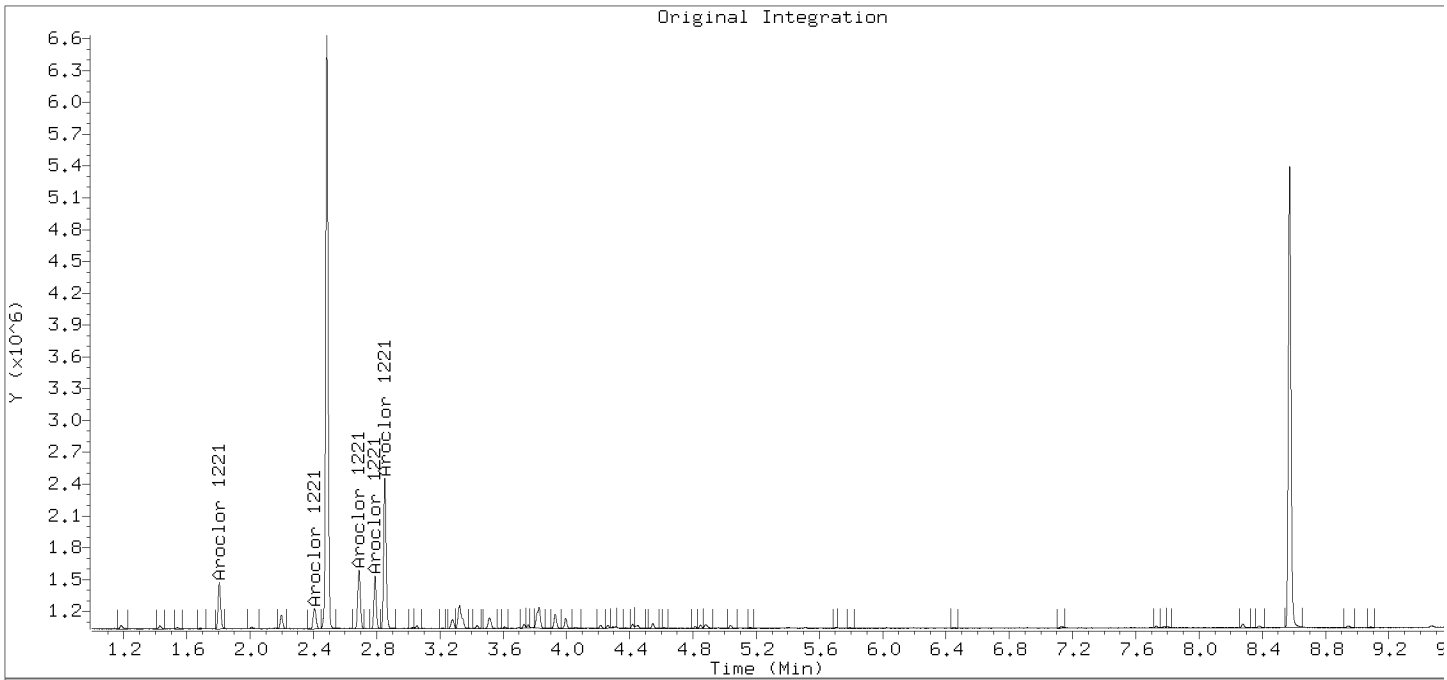
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

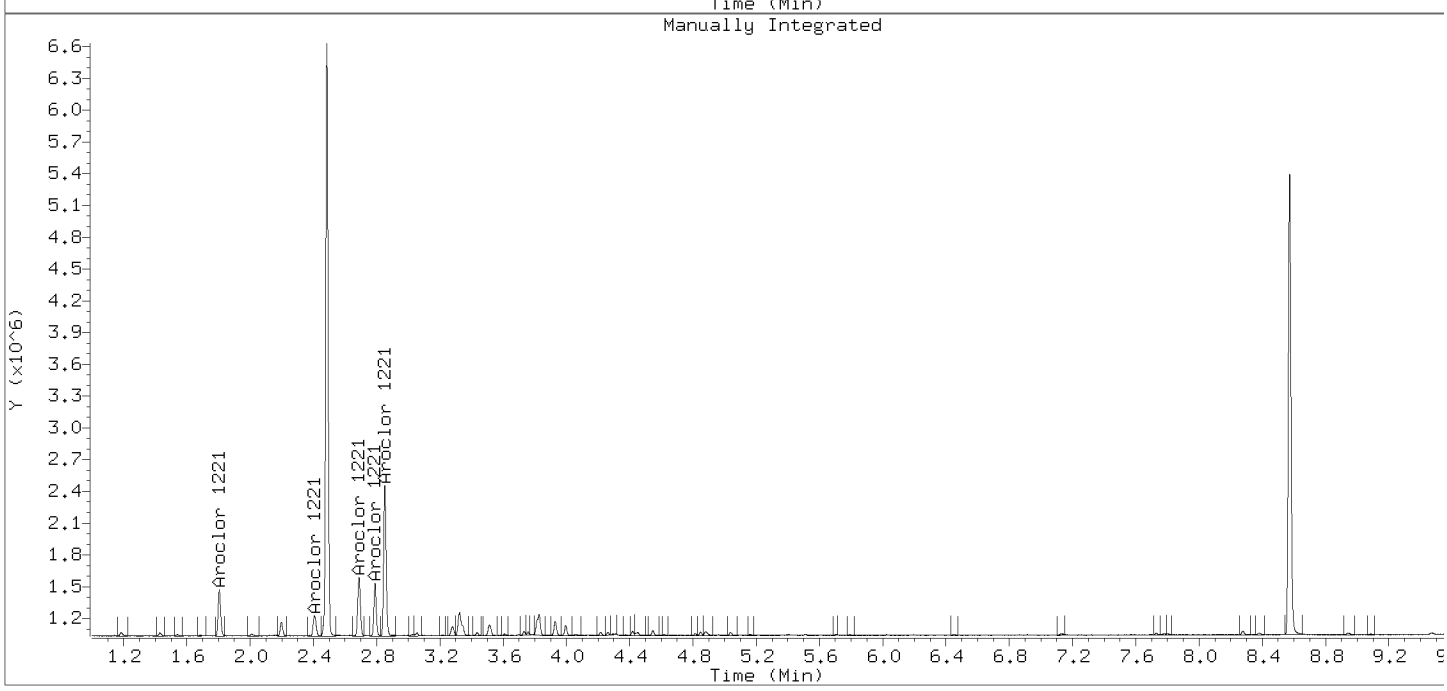
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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

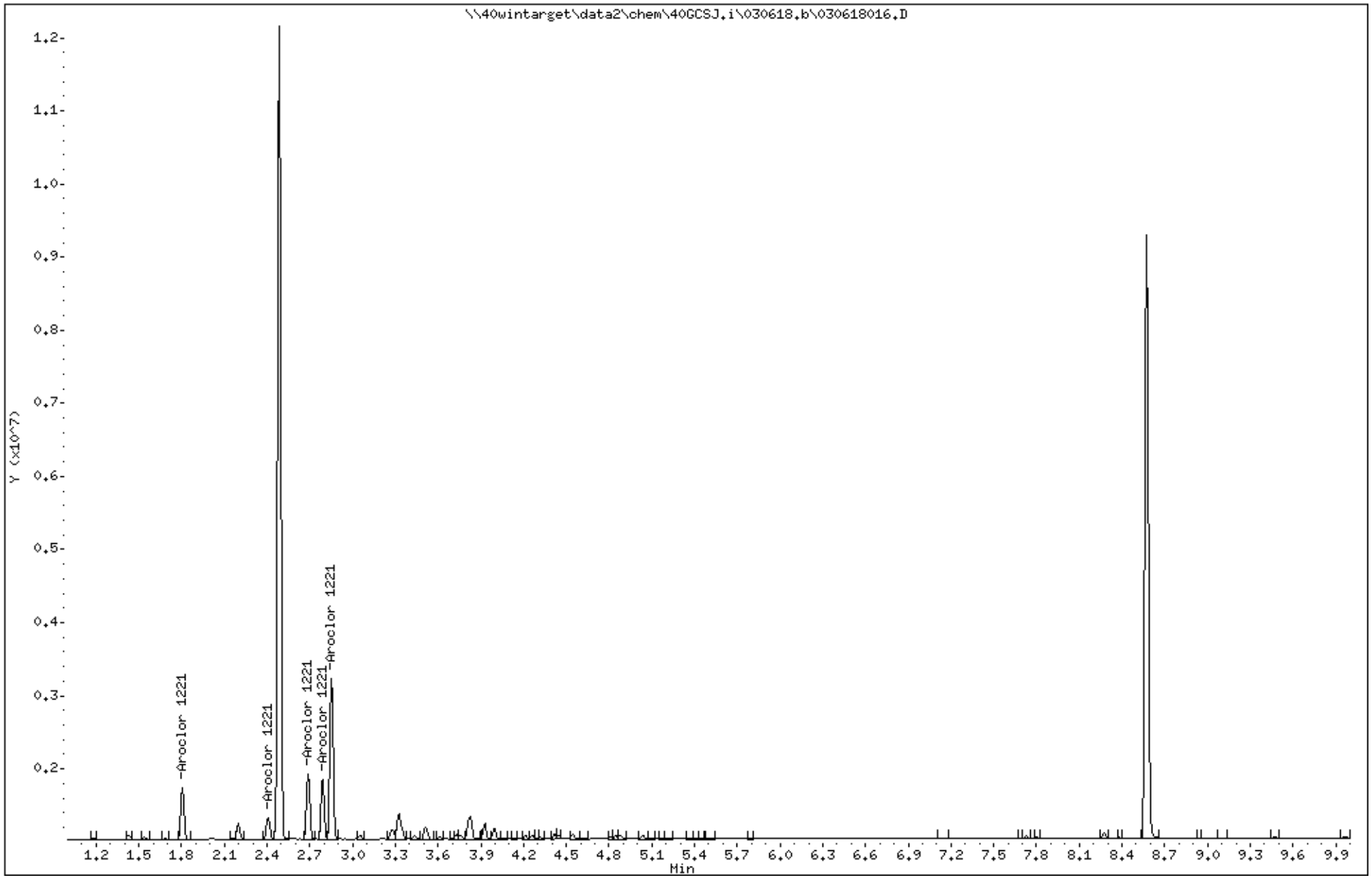
M - Compound response manually integrated.

Review Codes Legend

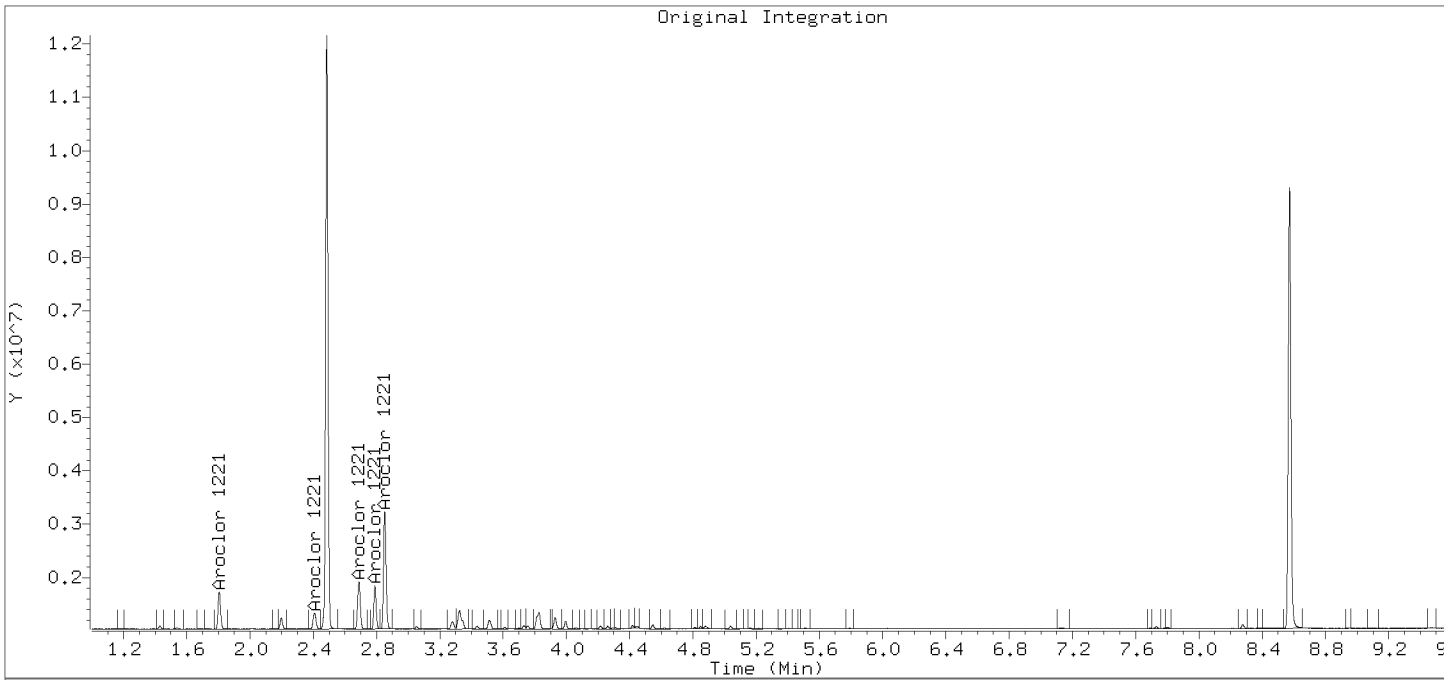
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

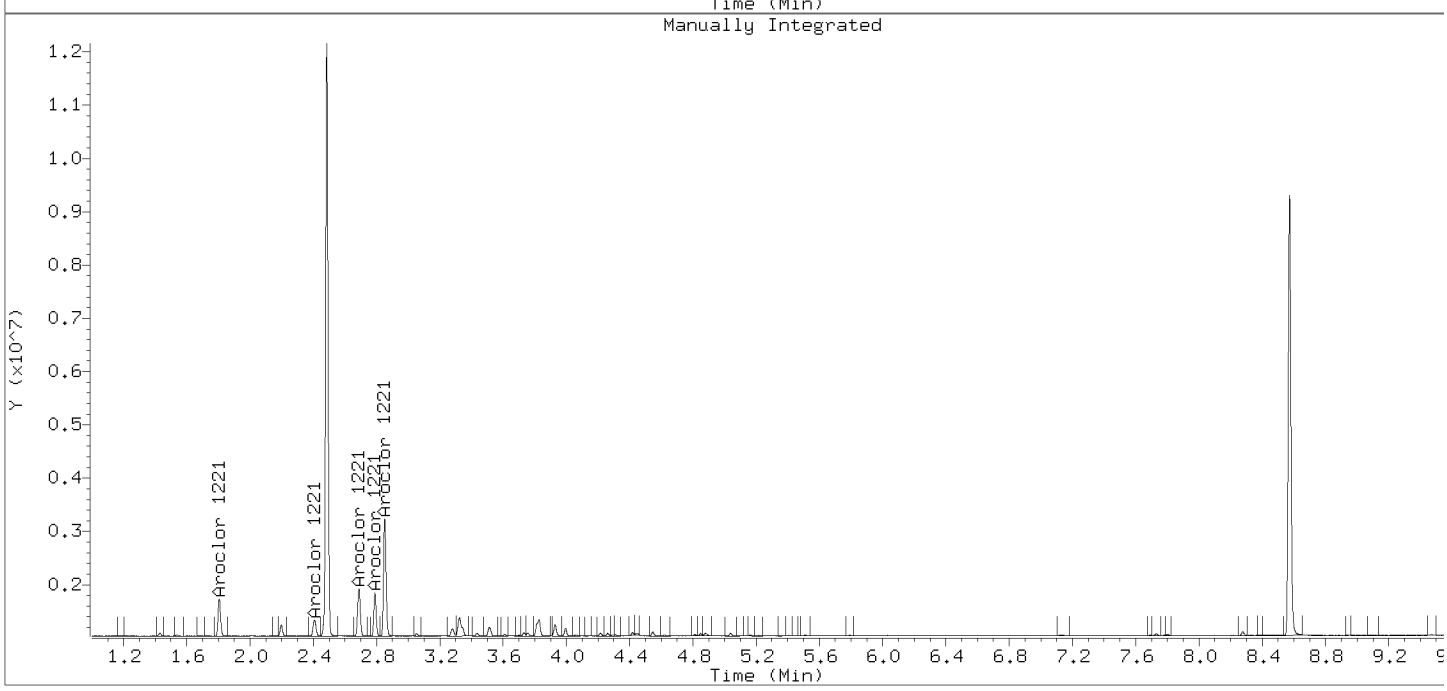
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

Instrument: 40GCSJ.i
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

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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

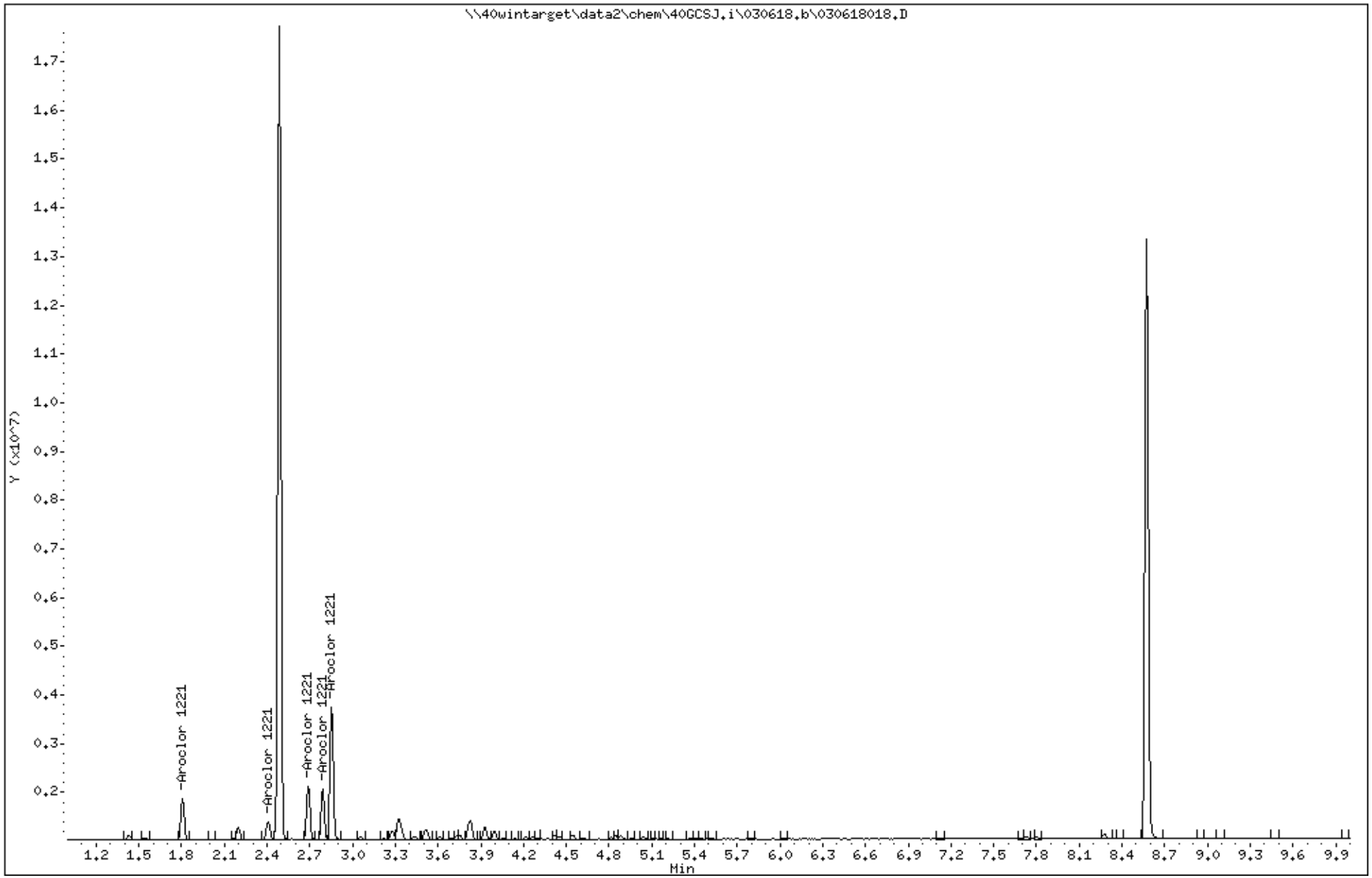
M - Compound response manually integrated.

Review Codes Legend

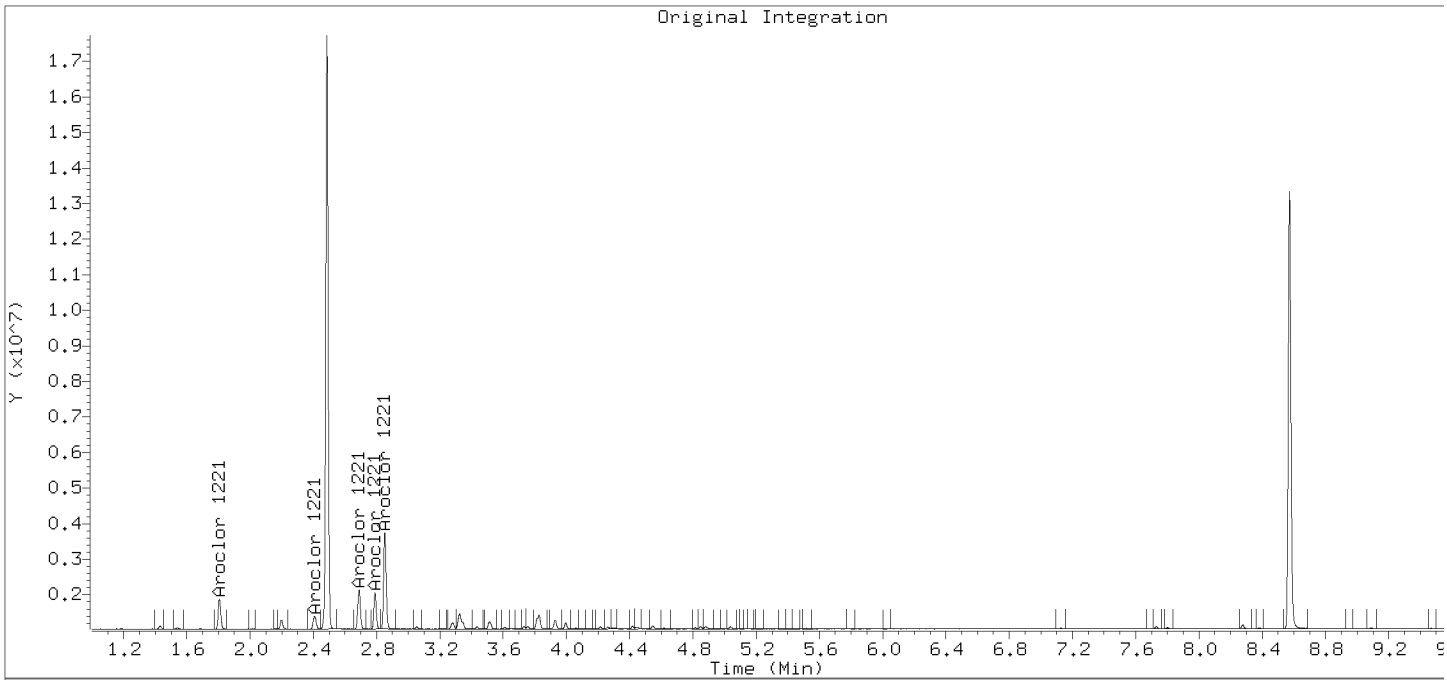
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

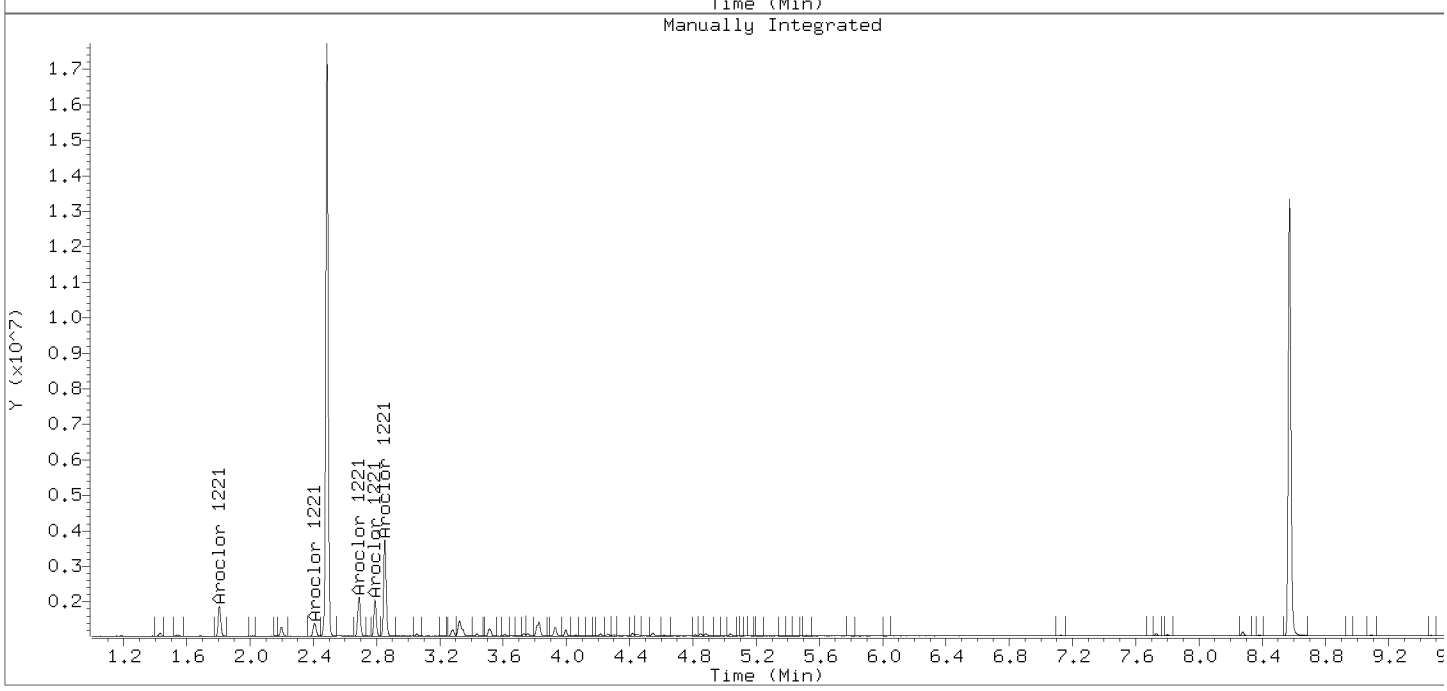
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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.

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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

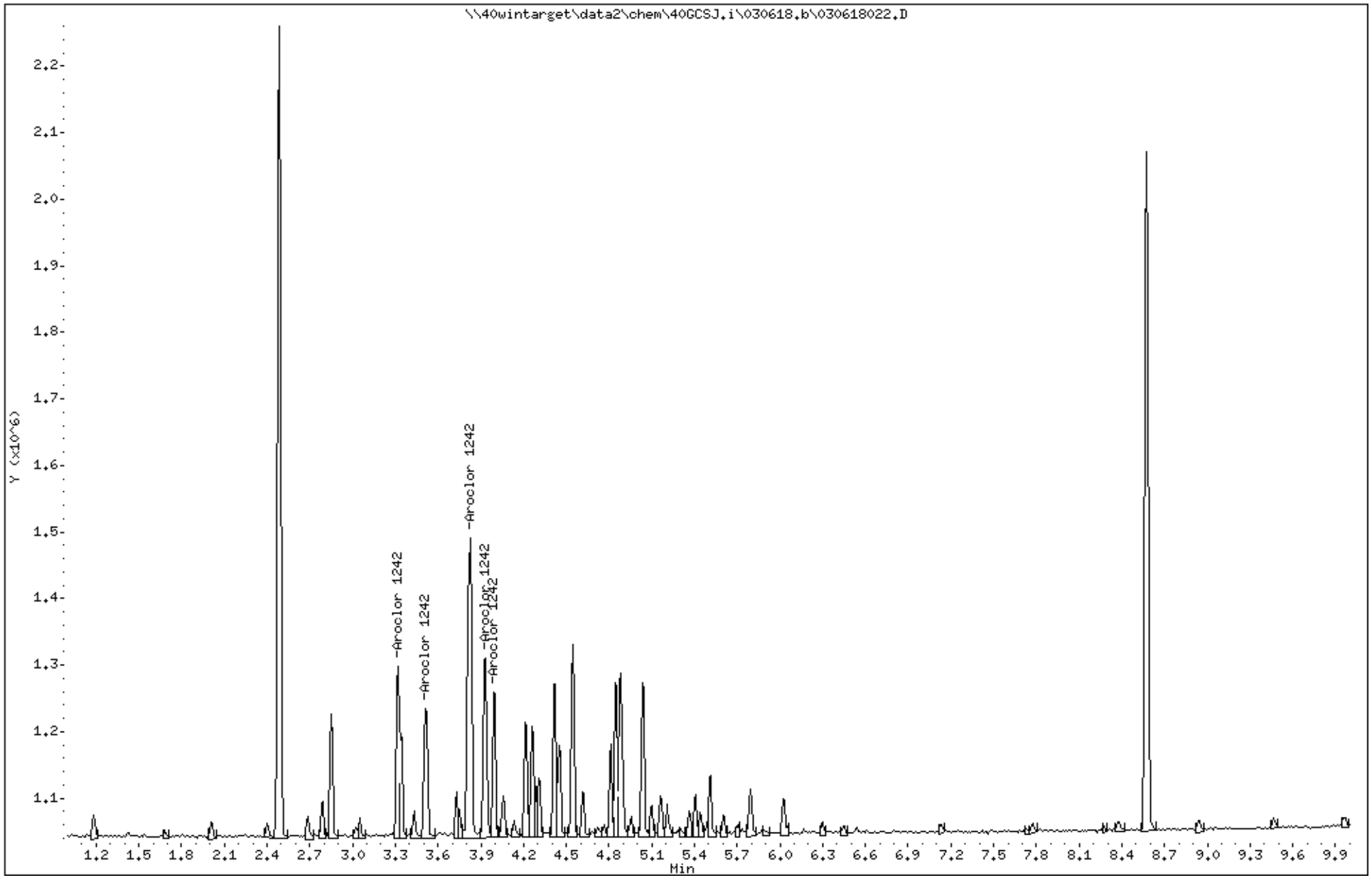
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

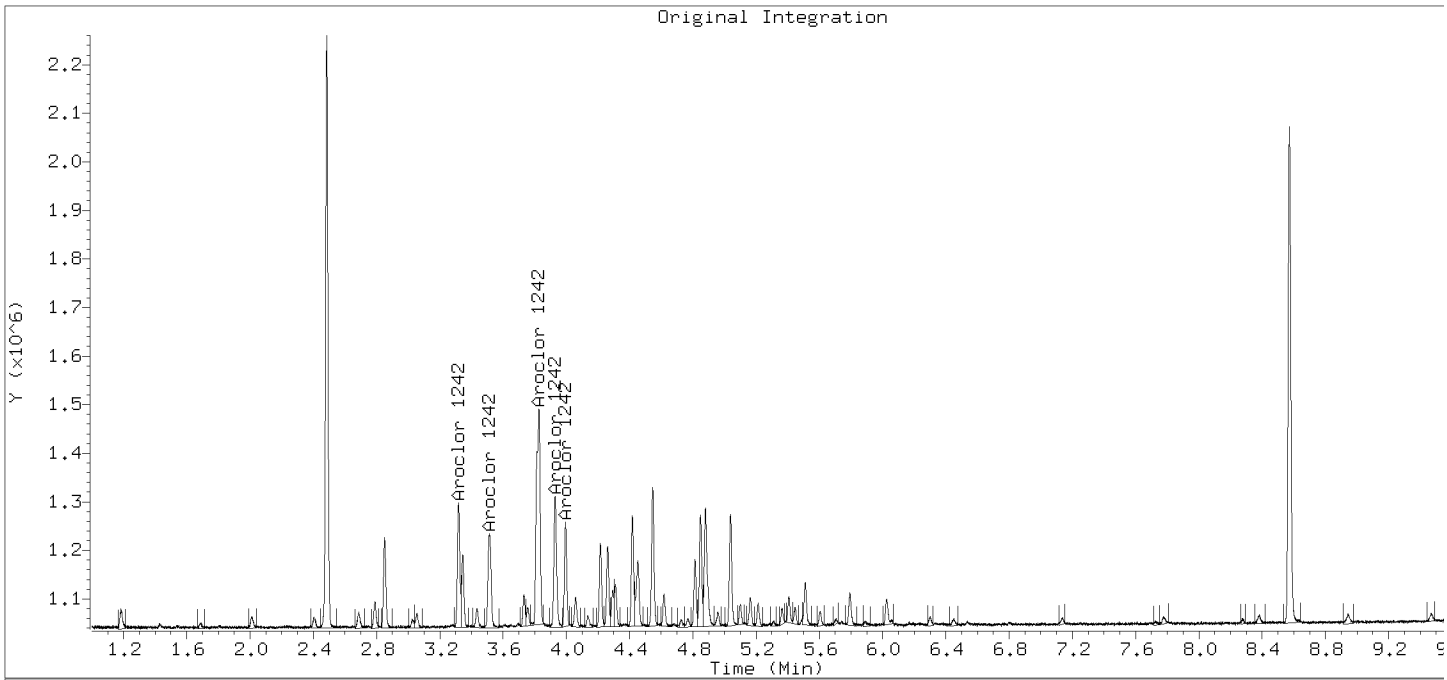
Operator: BLM

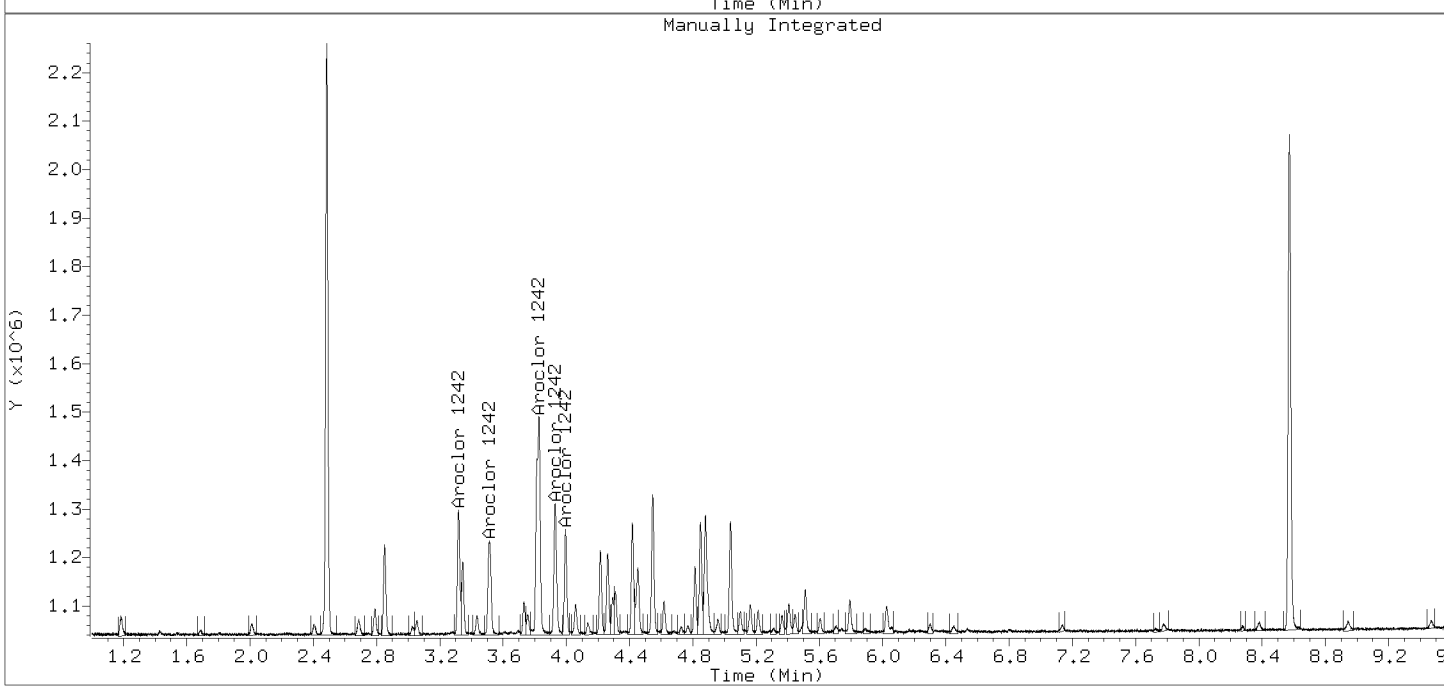
Column phase: ZB-1ms

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

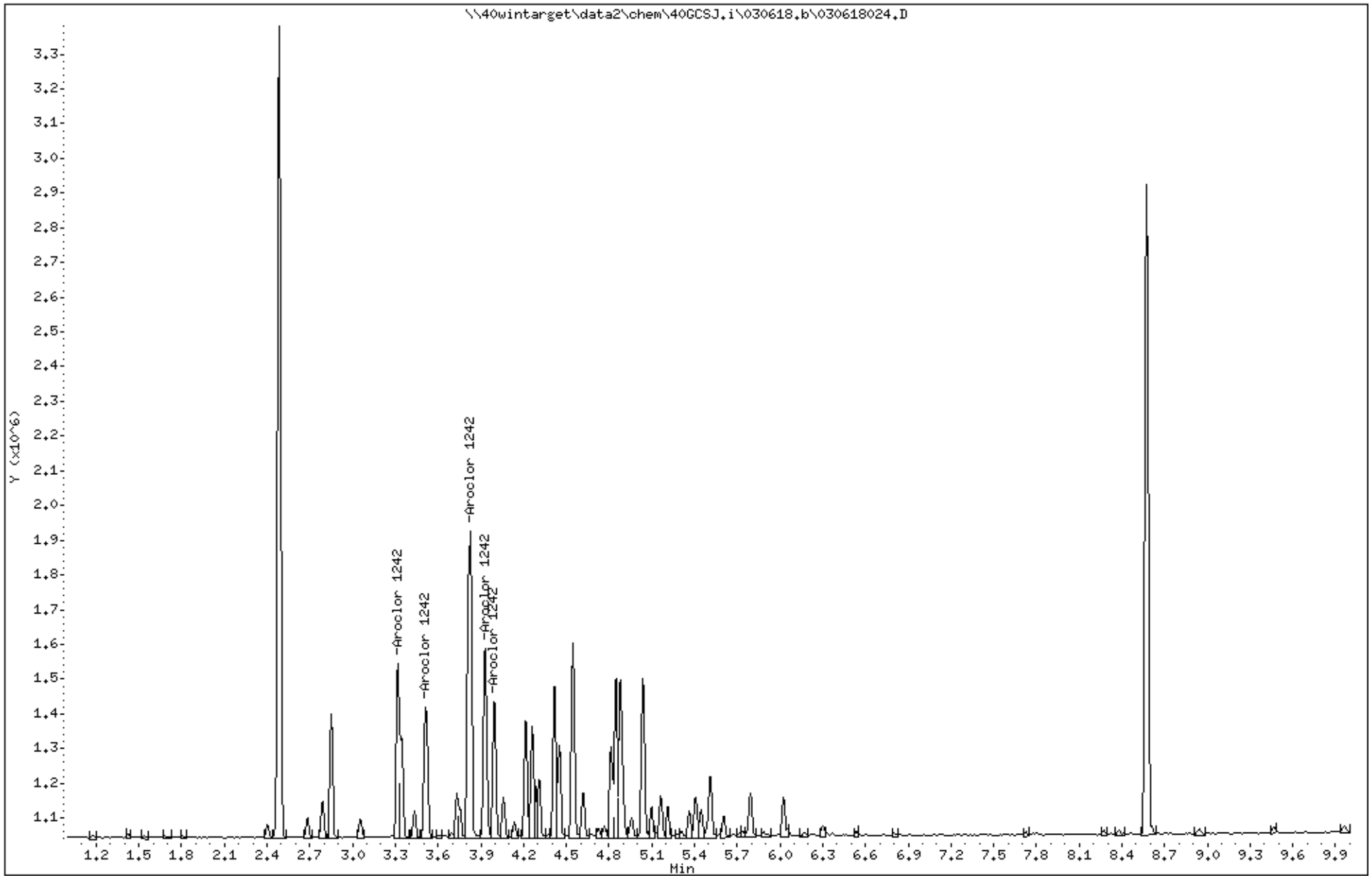
M - Compound response manually integrated.

Review Codes Legend

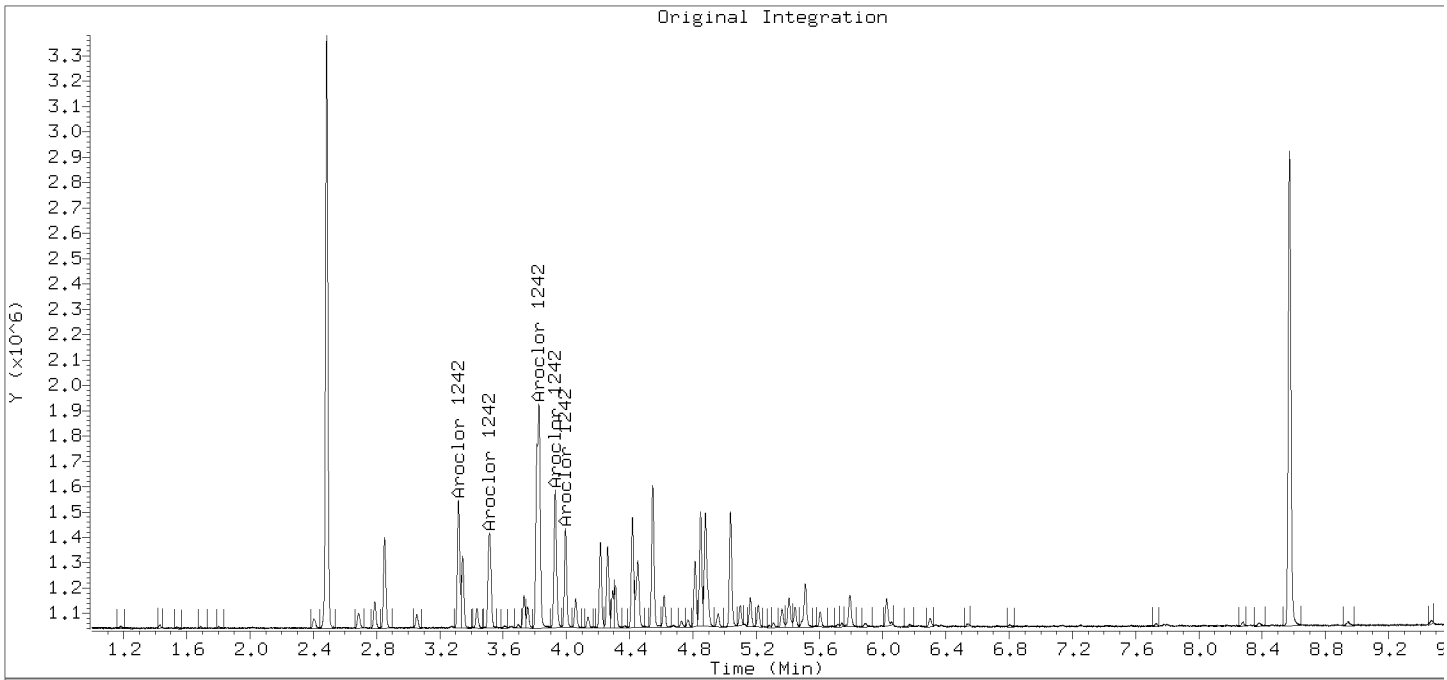
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

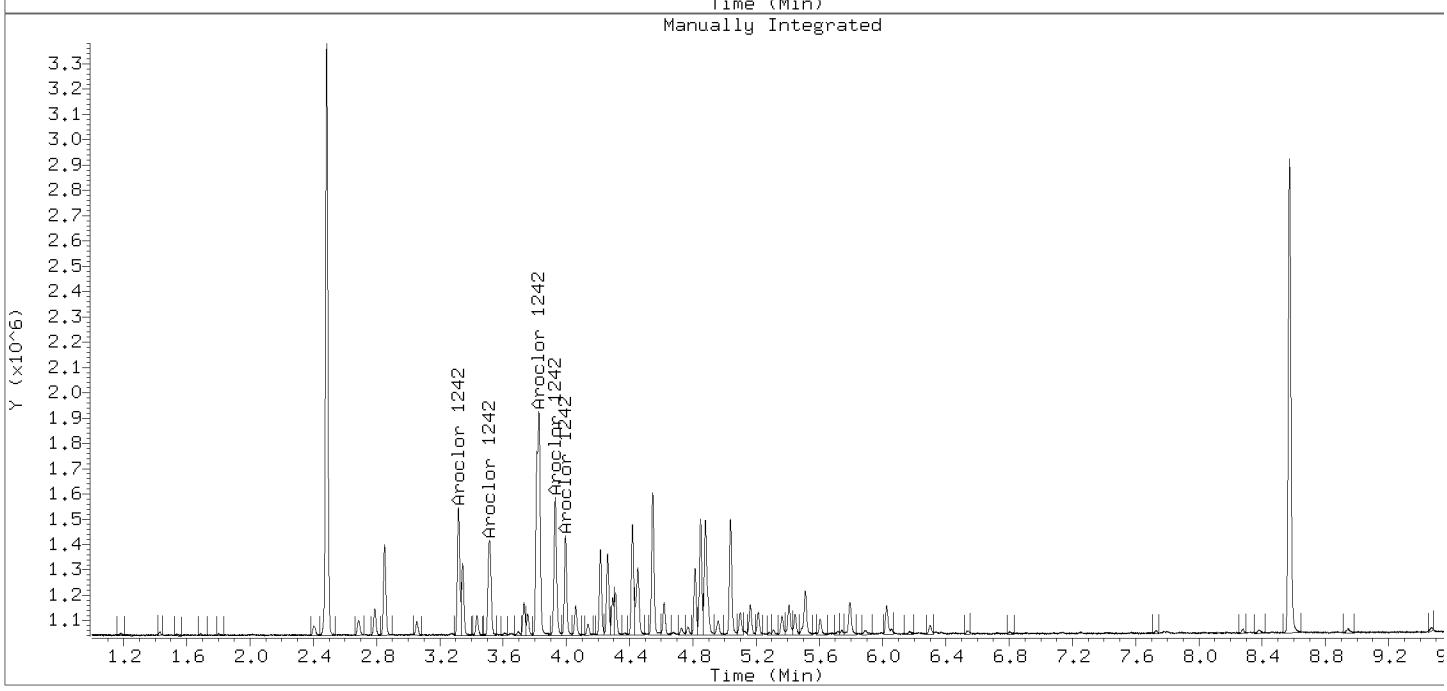
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

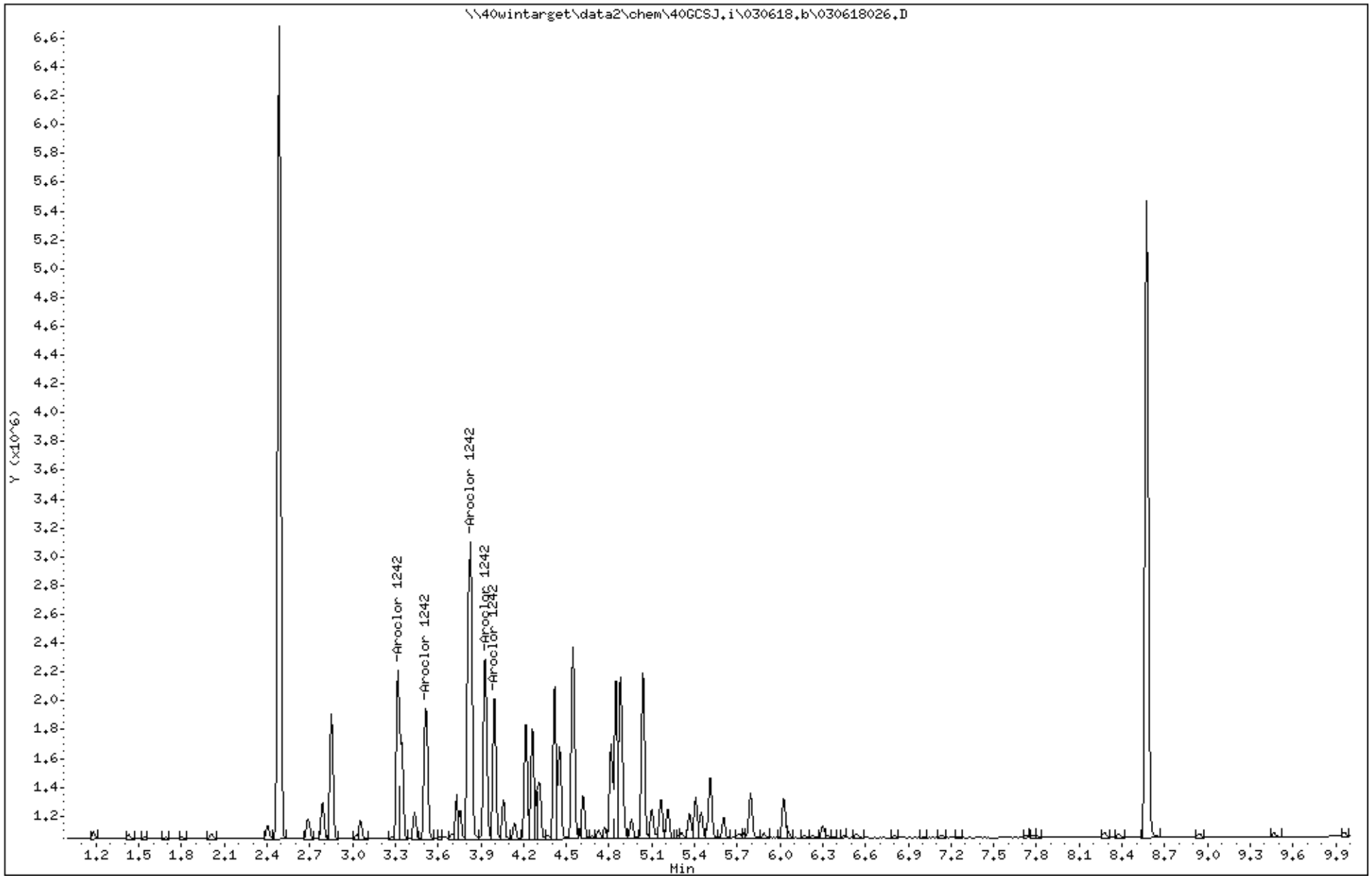
M - Compound response manually integrated.

Review Codes Legend

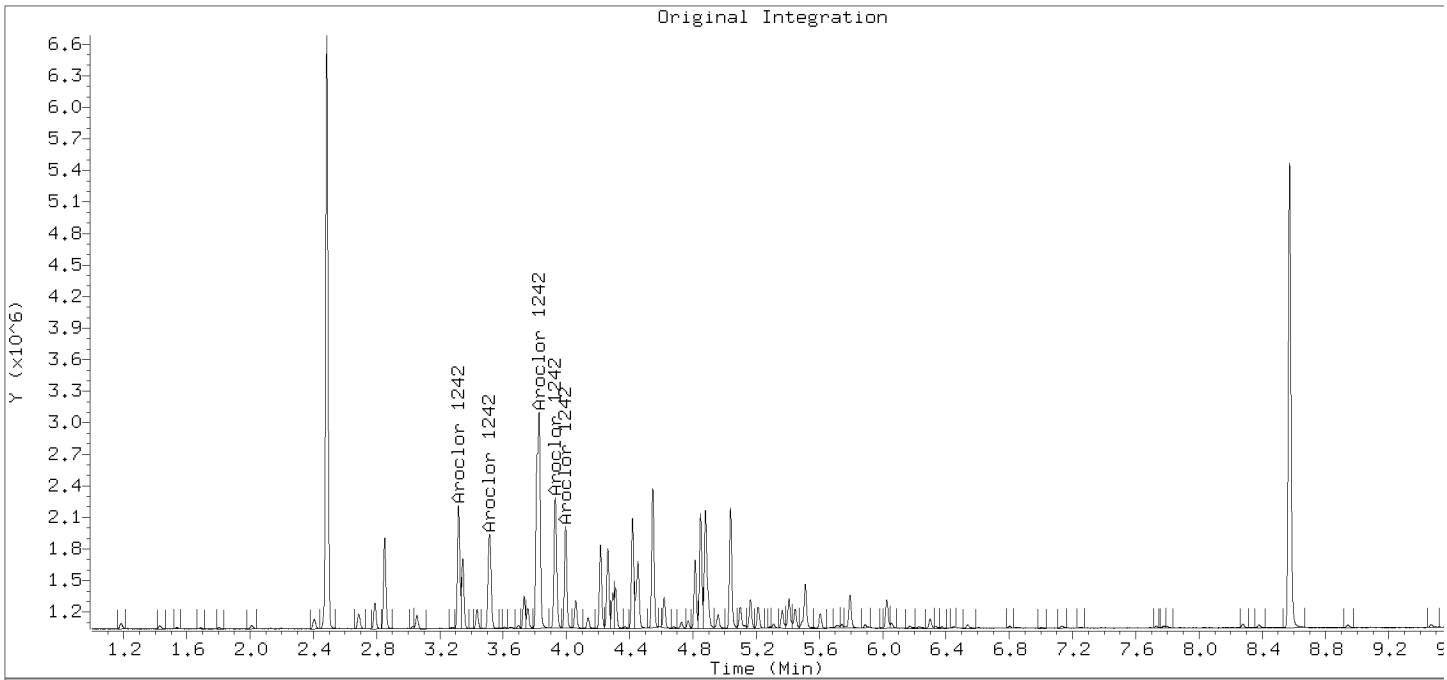
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

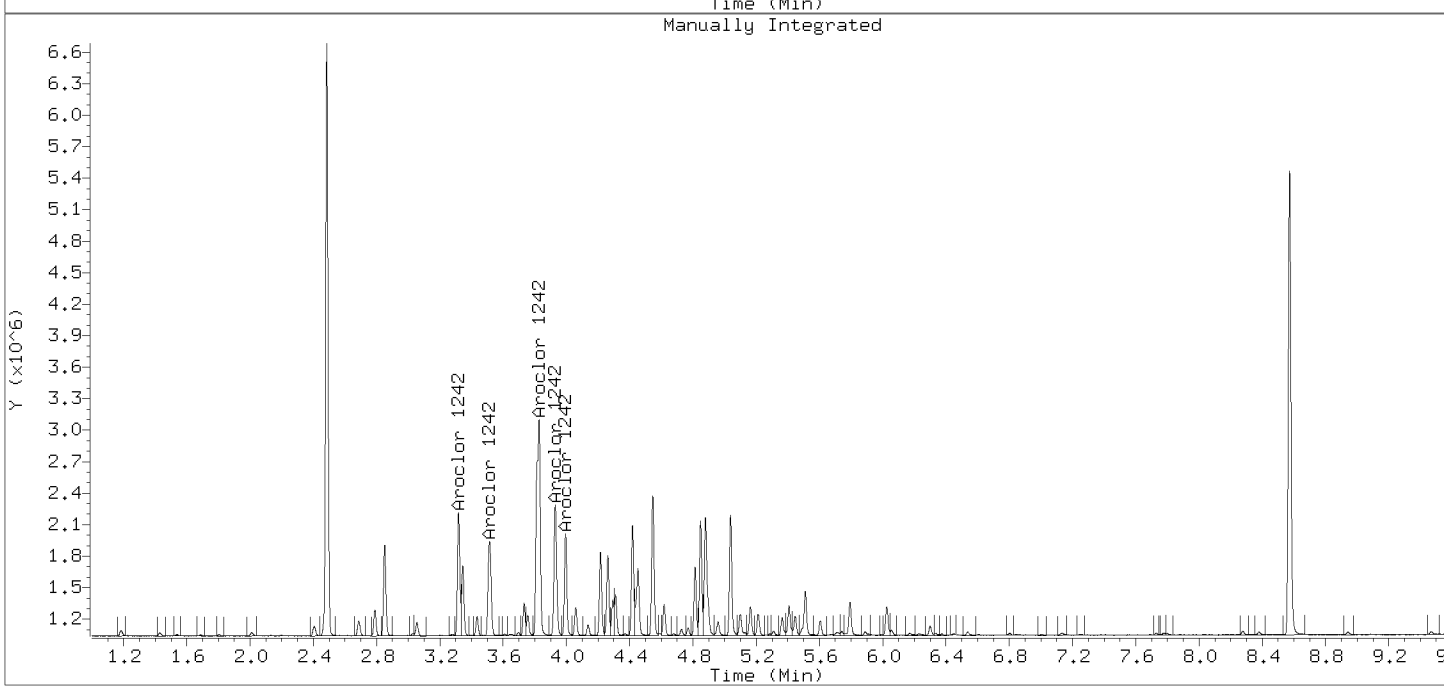
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

Instrument: 40GCSJ.i
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

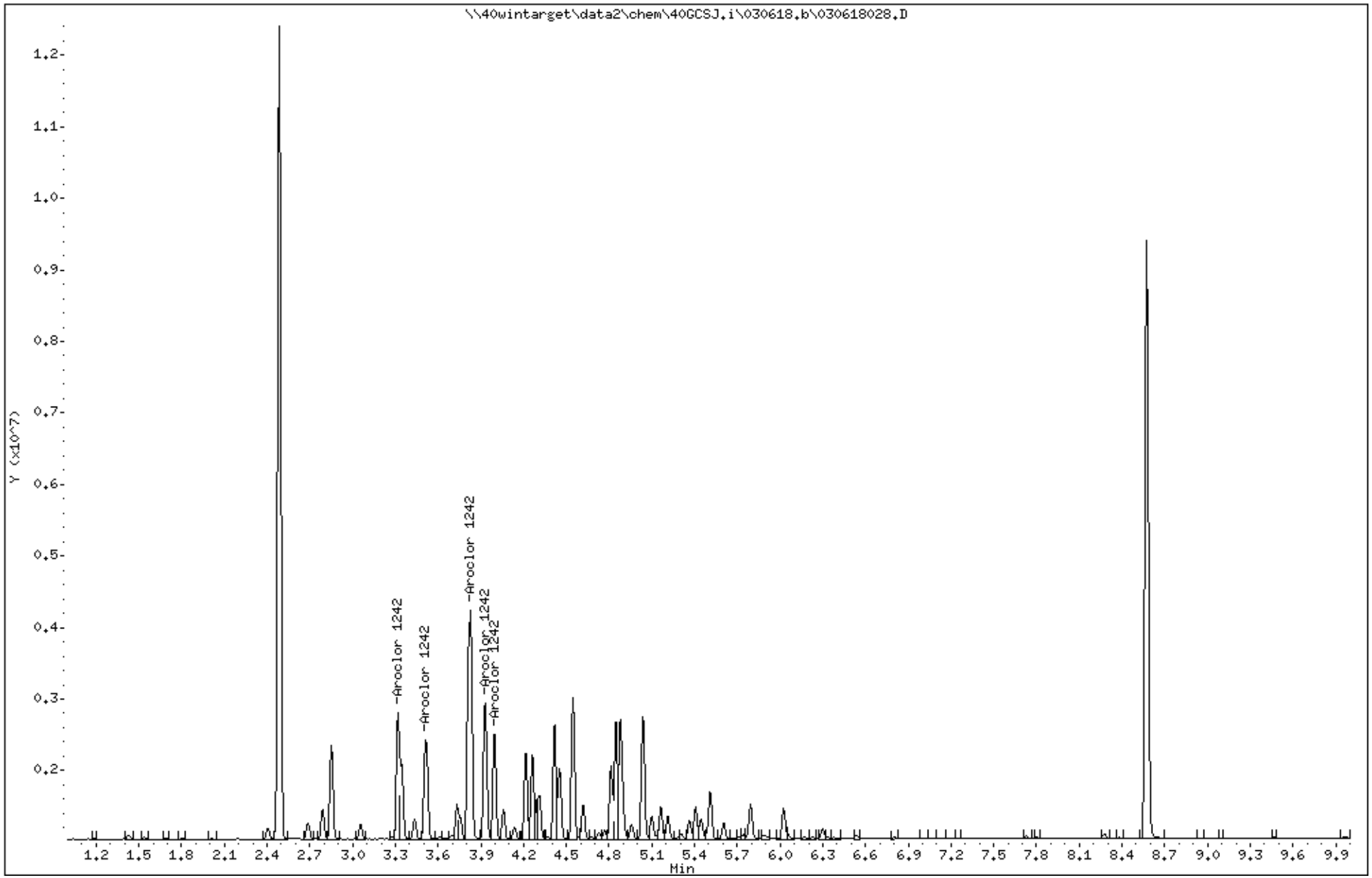
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

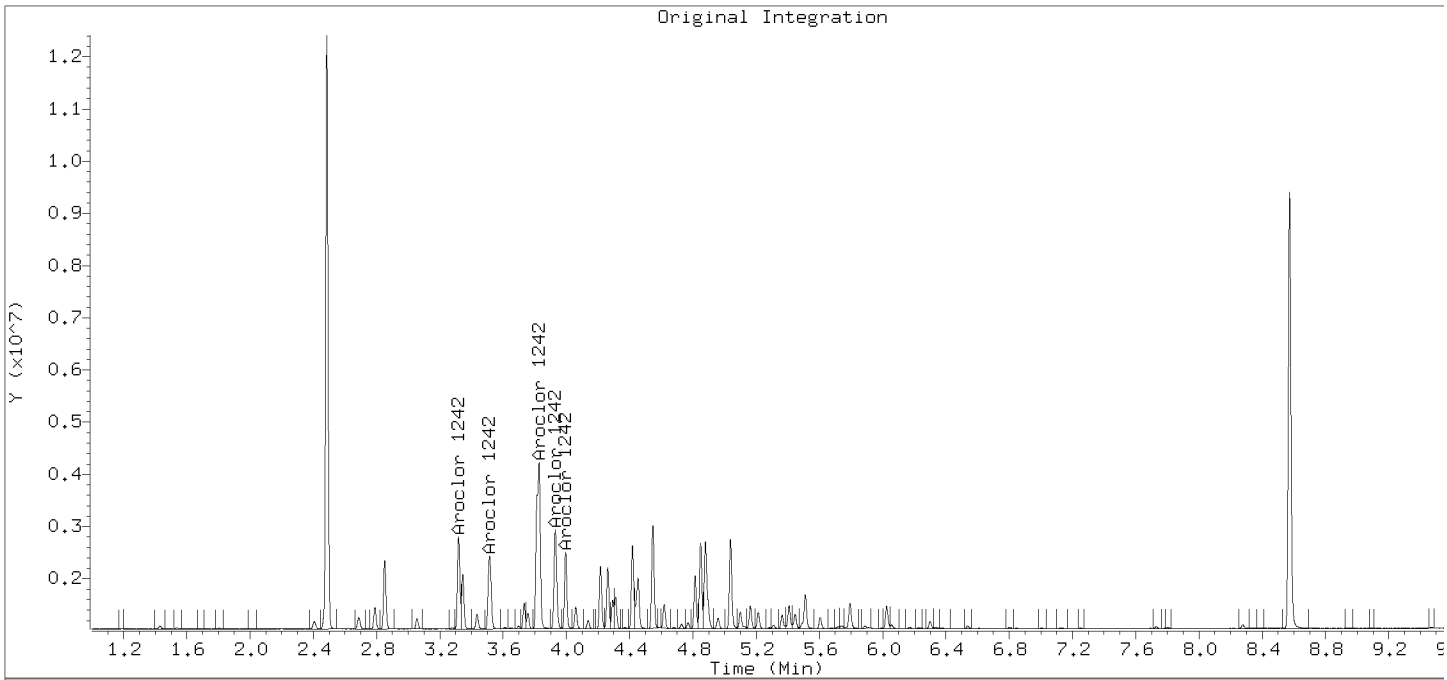
Operator: BLM

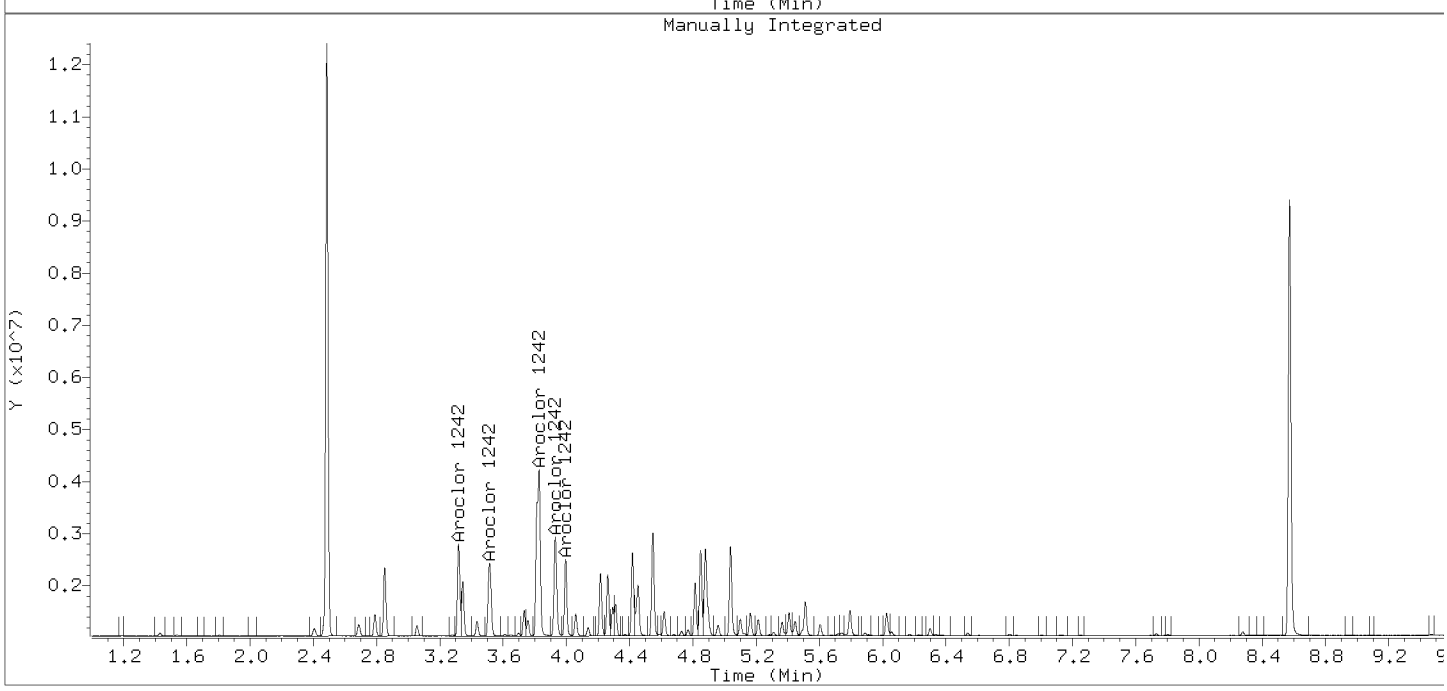
Column phase: ZB-1ms

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

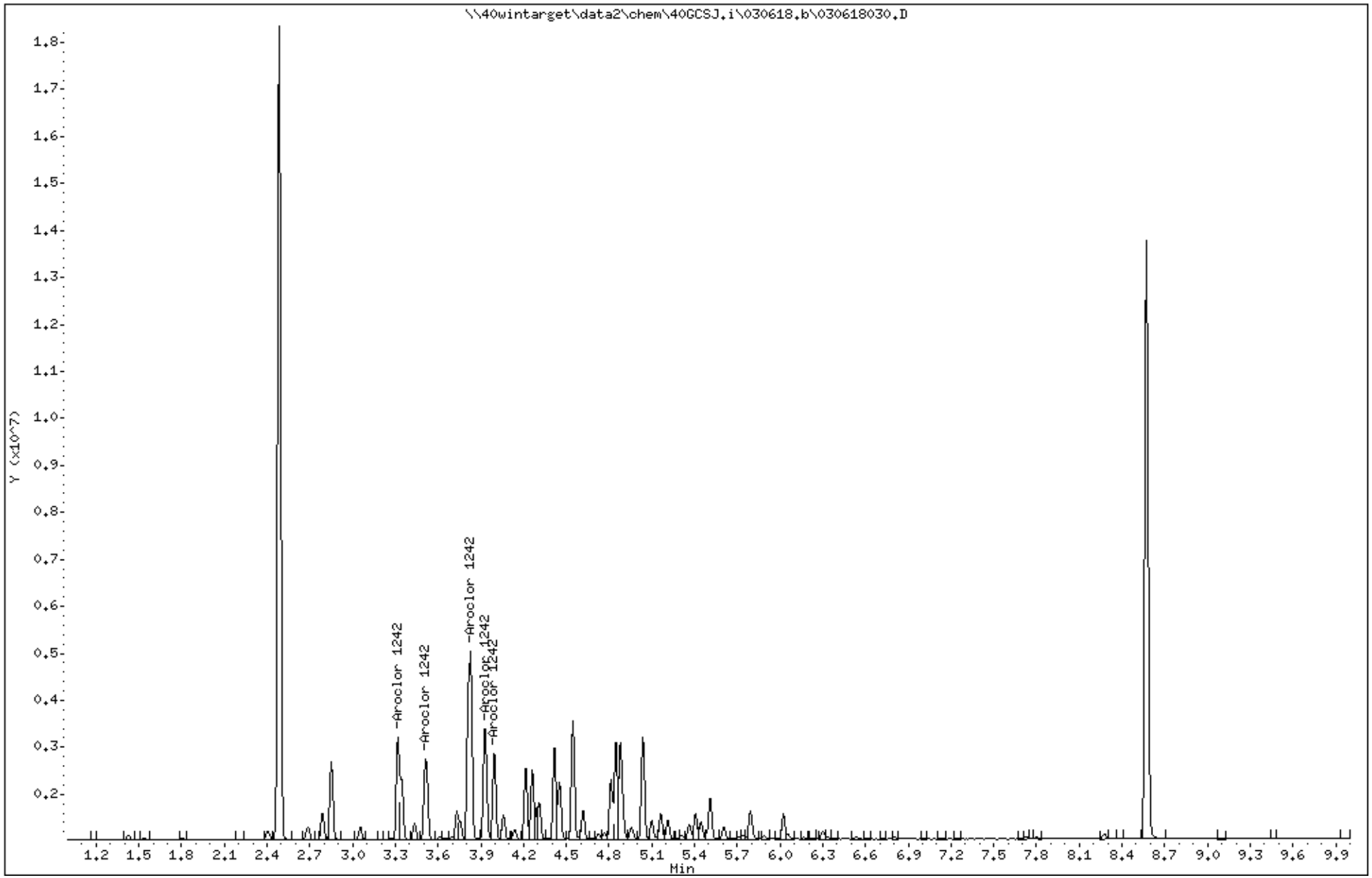
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

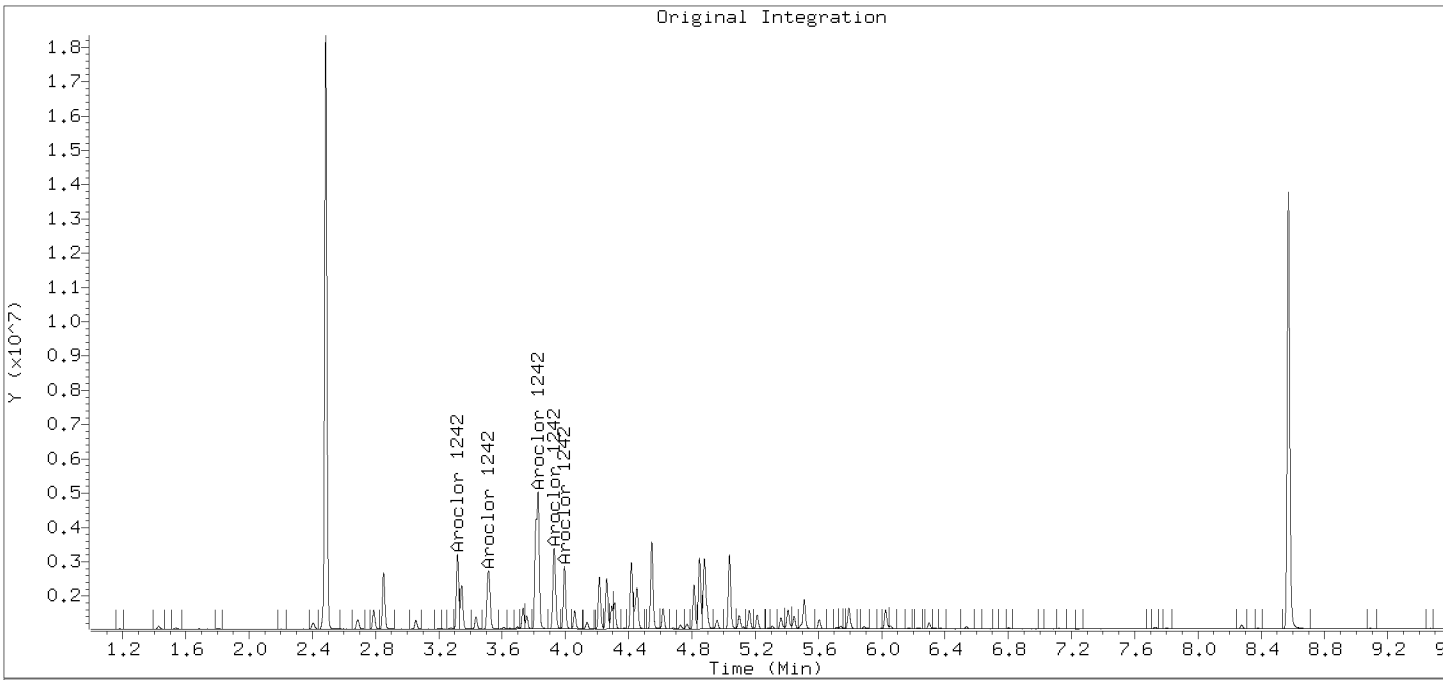
Operator: BLM

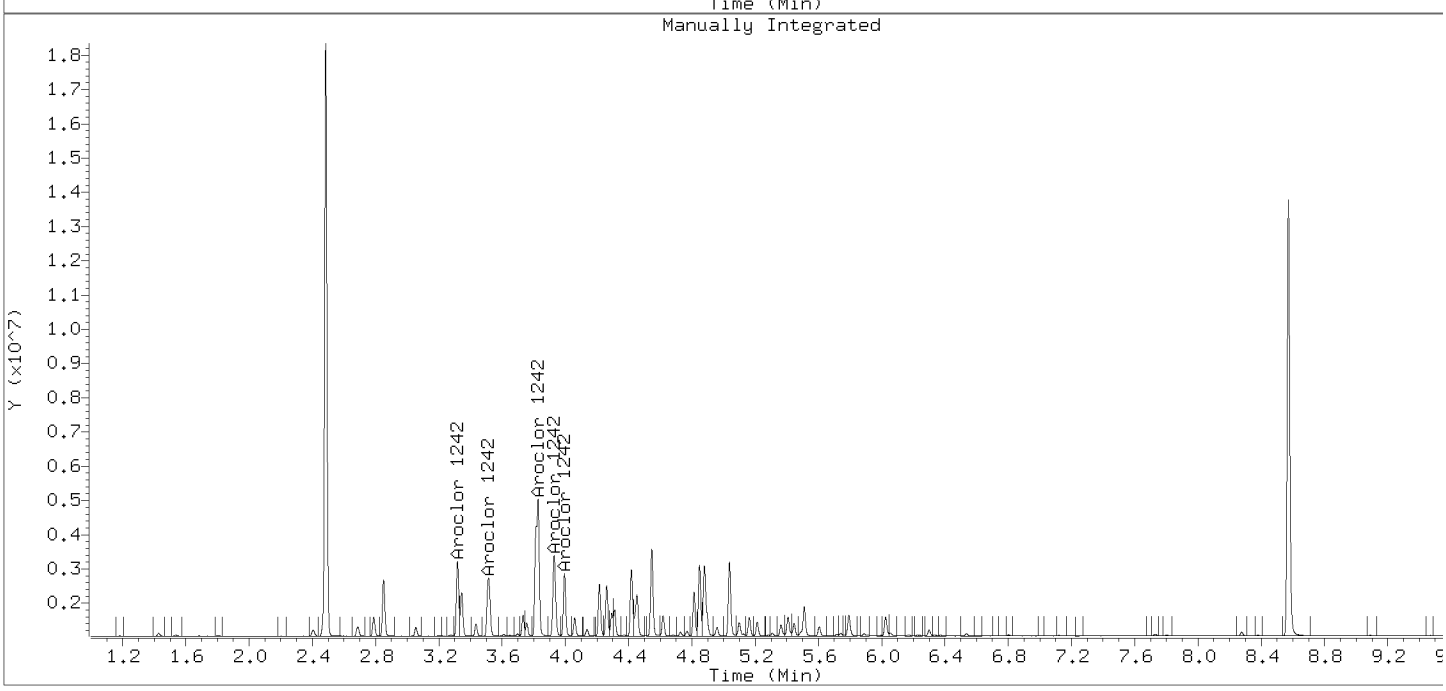
Column phase: ZB-1ms

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

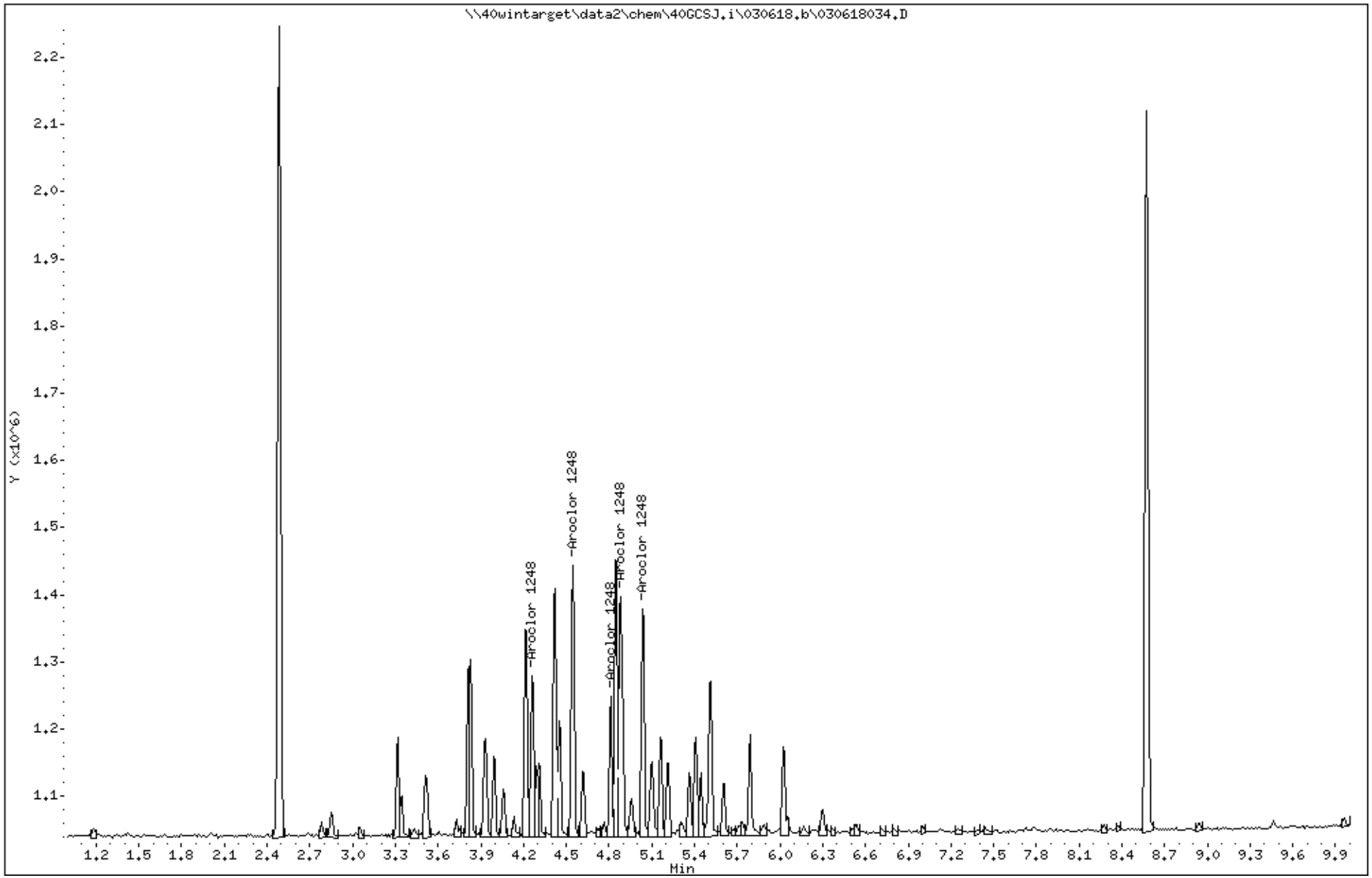
M - Compound response manually integrated.

Review Codes Legend

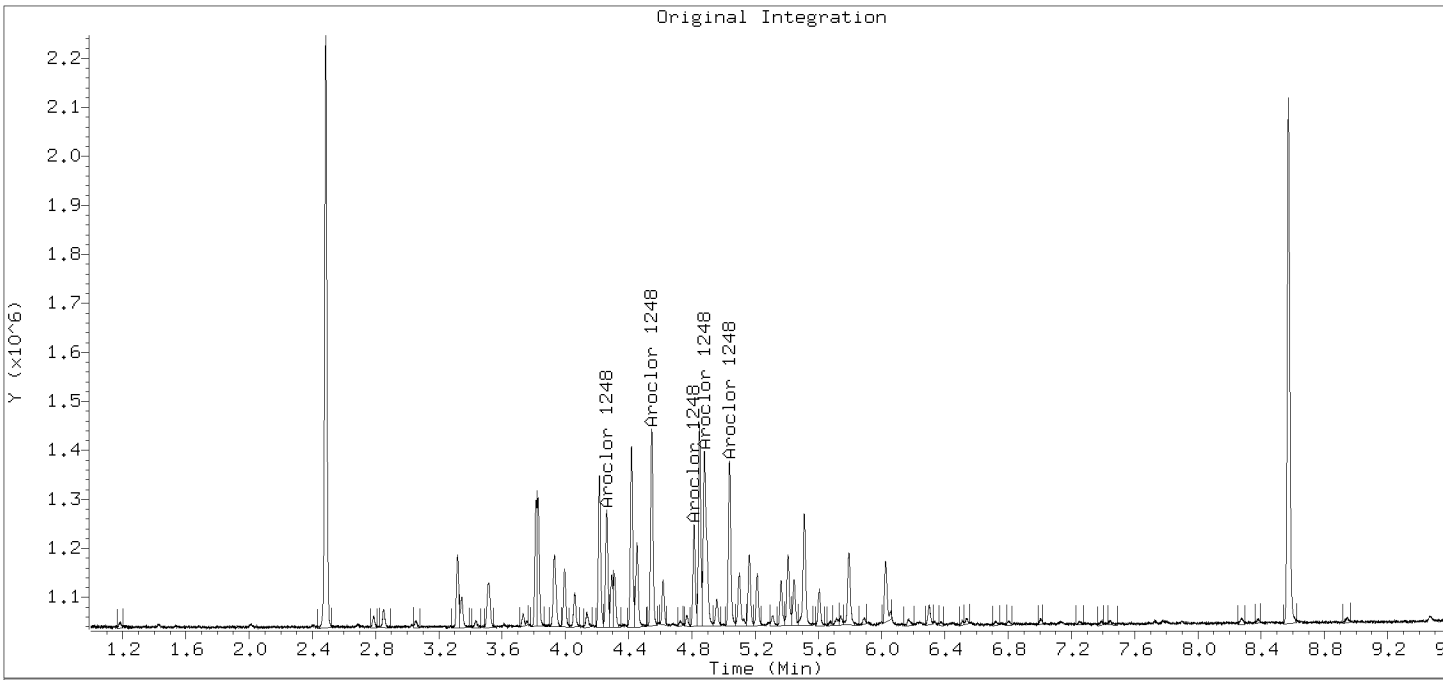
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

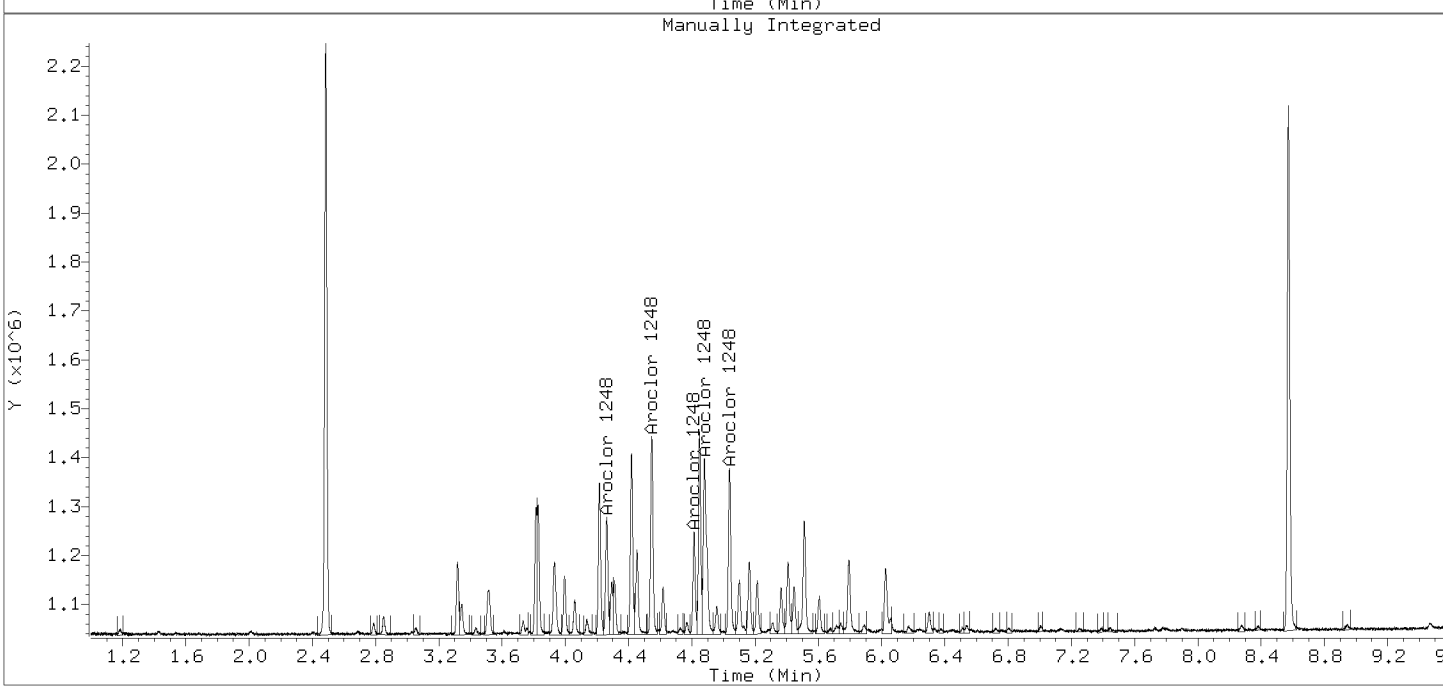
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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

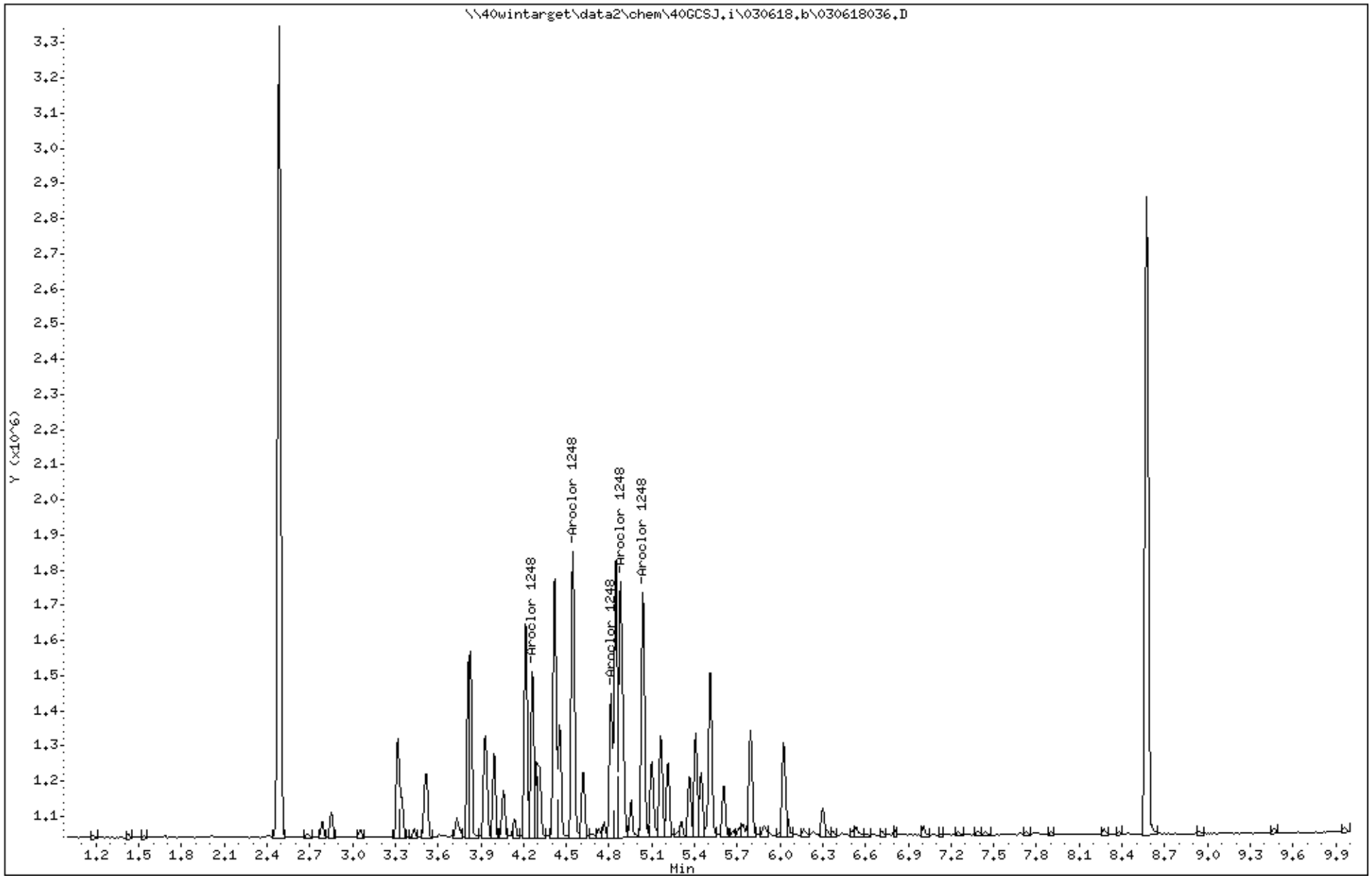
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

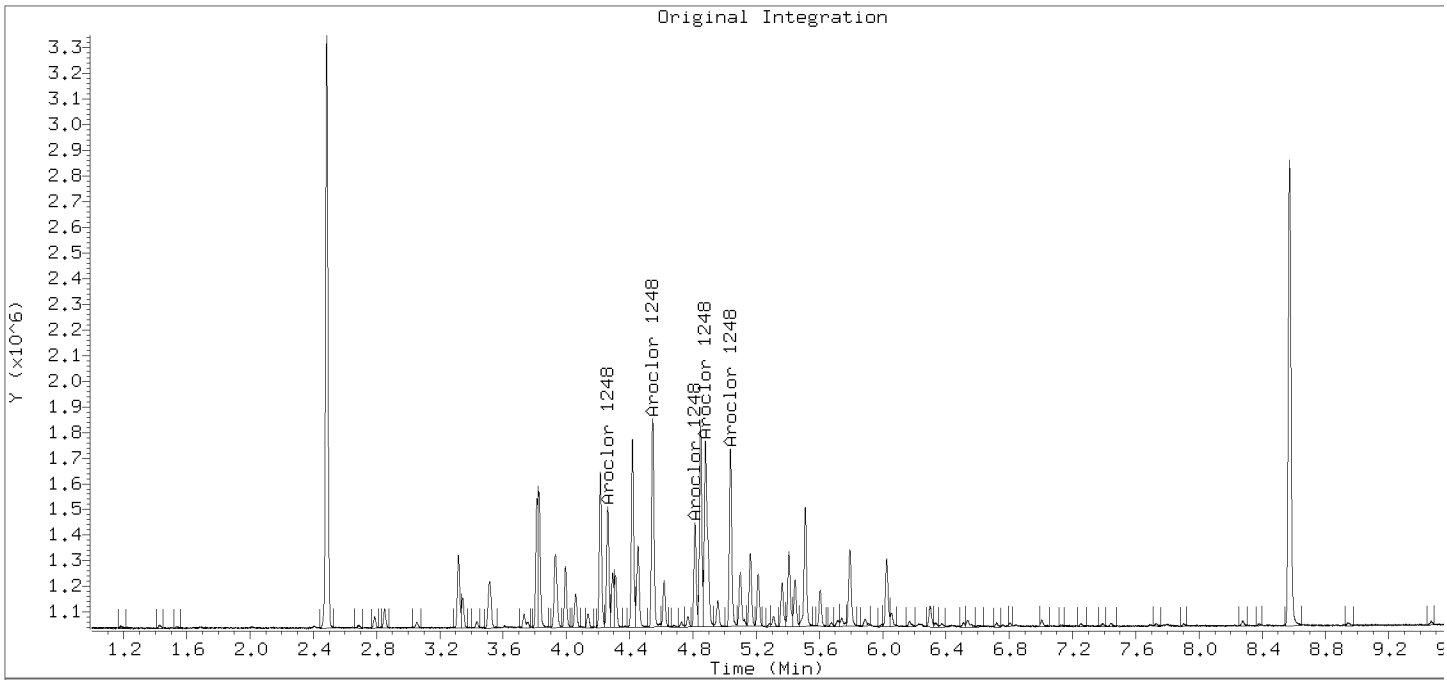
Operator: BLM

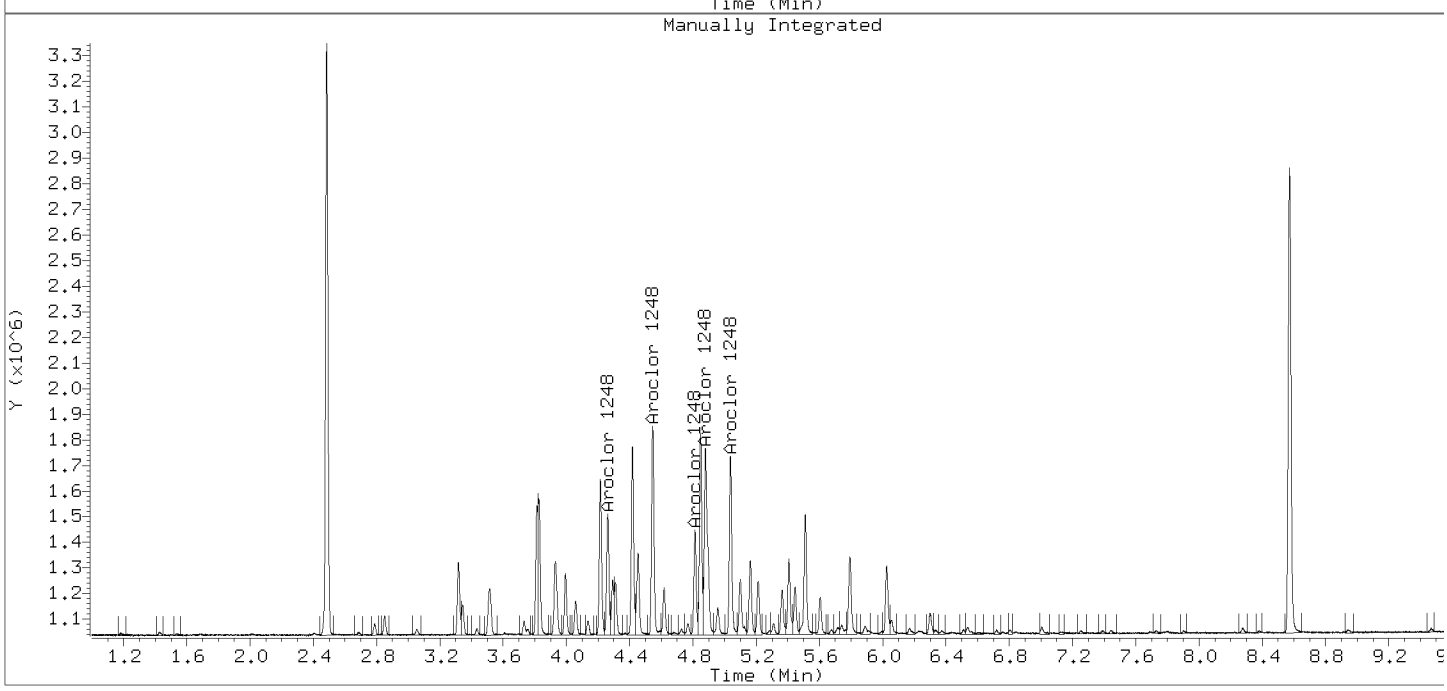
Column phase: ZB-1ms

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

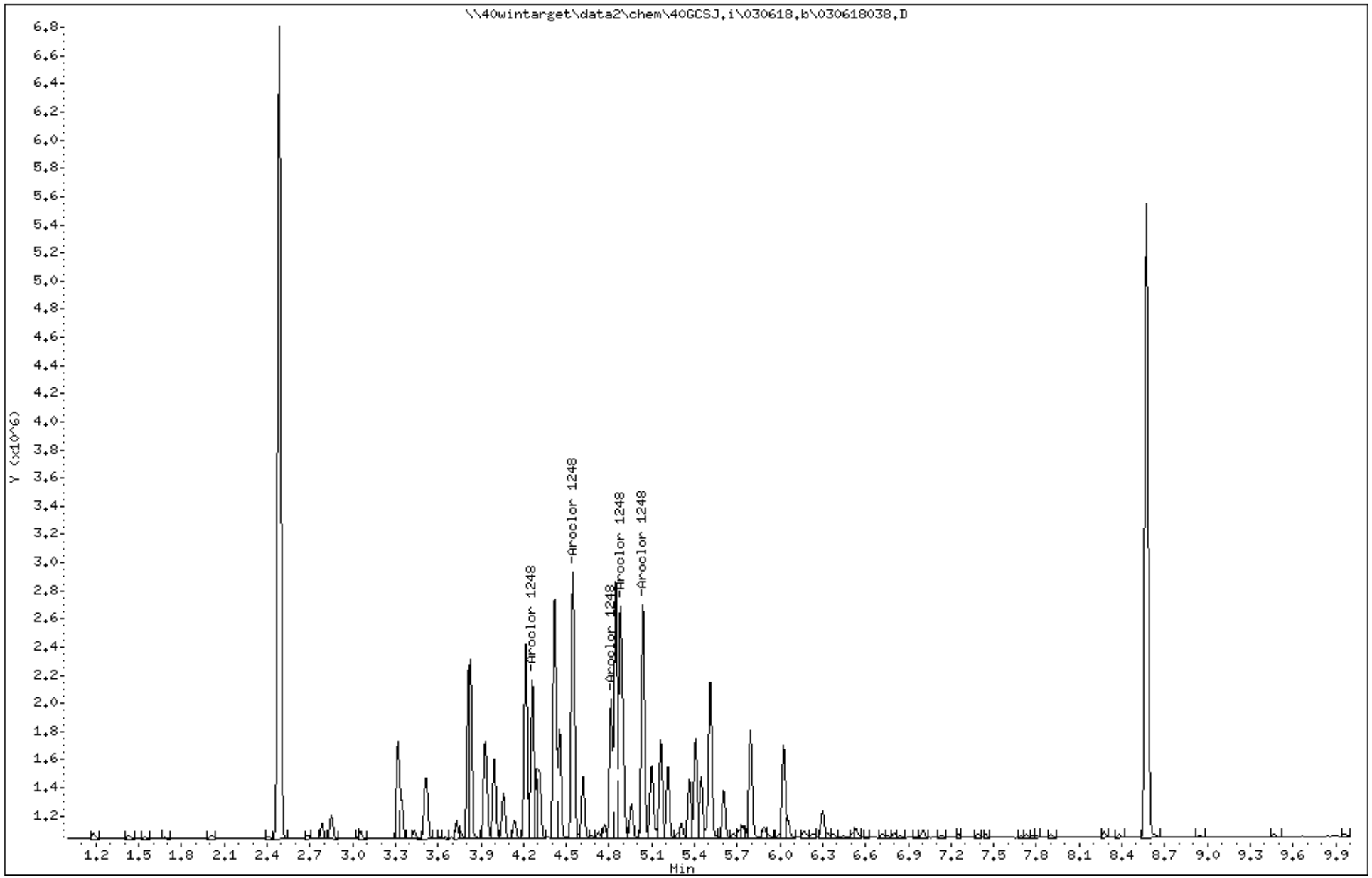
M - Compound response manually integrated.

Review Codes Legend

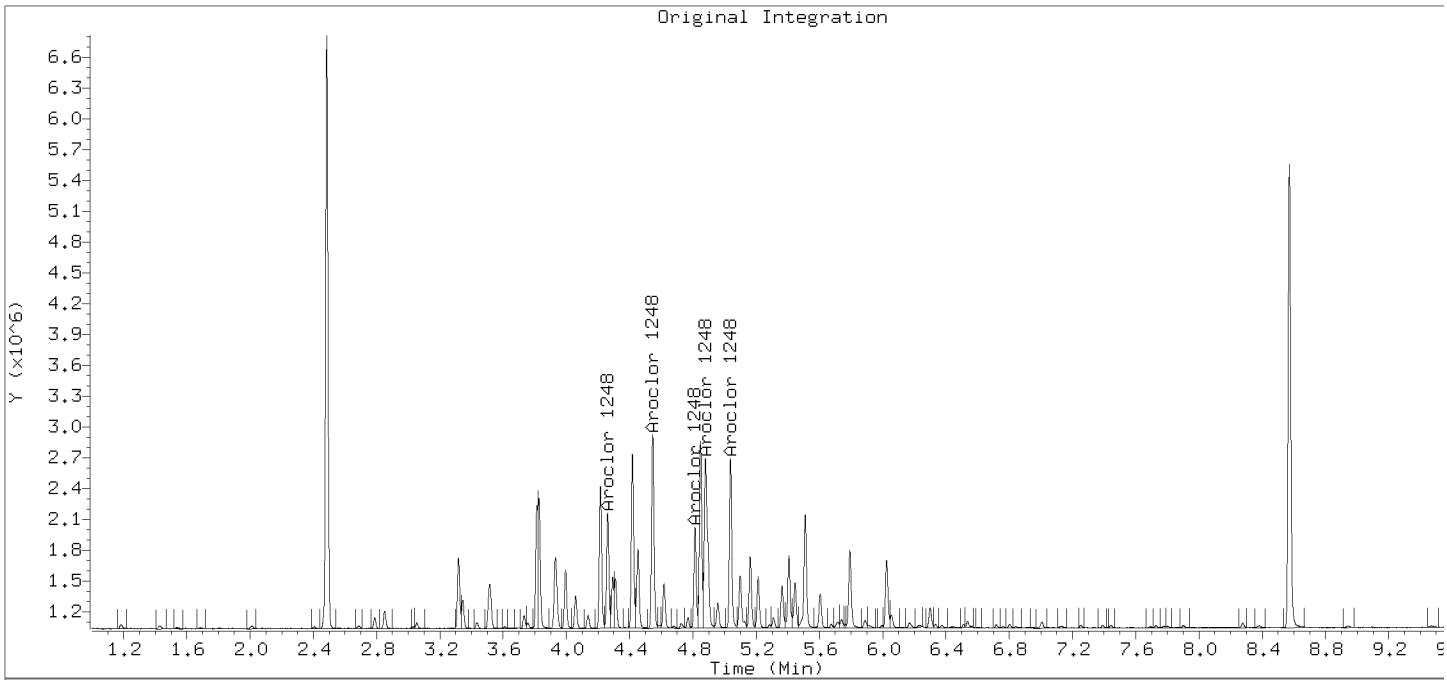
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

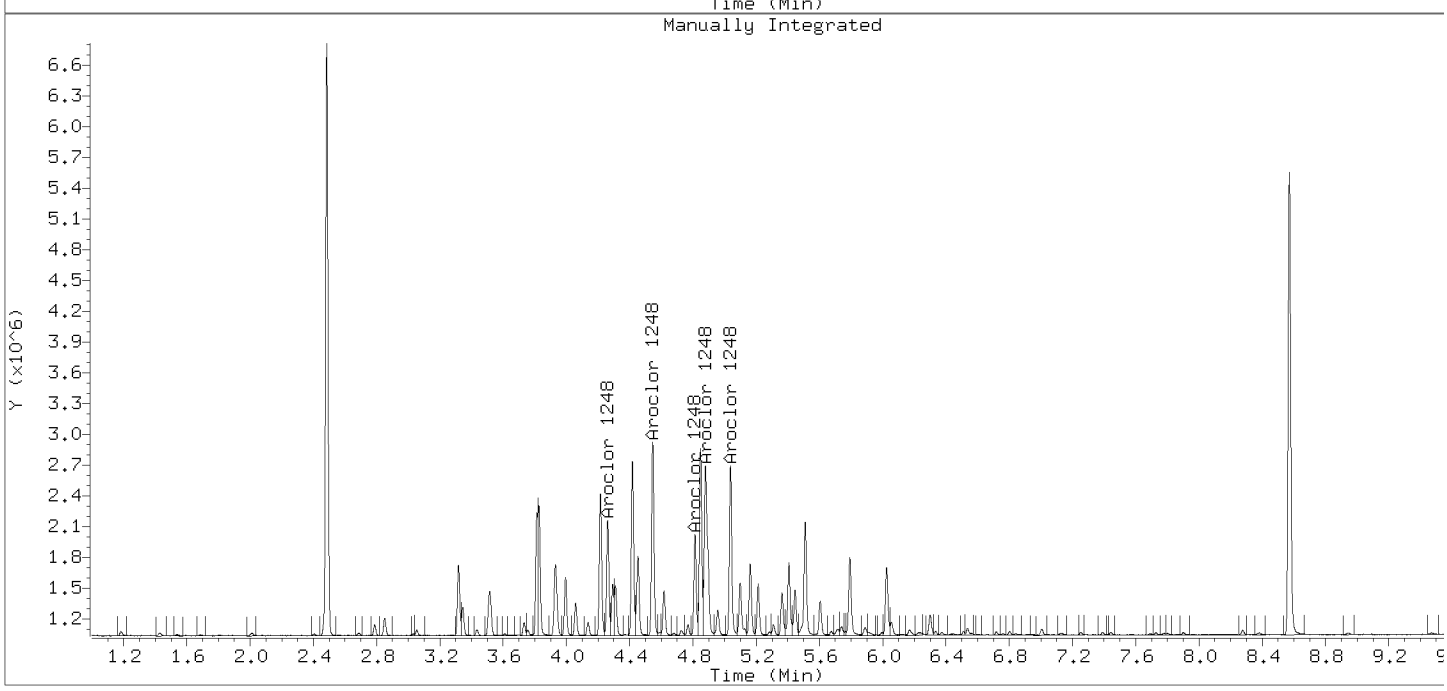
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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

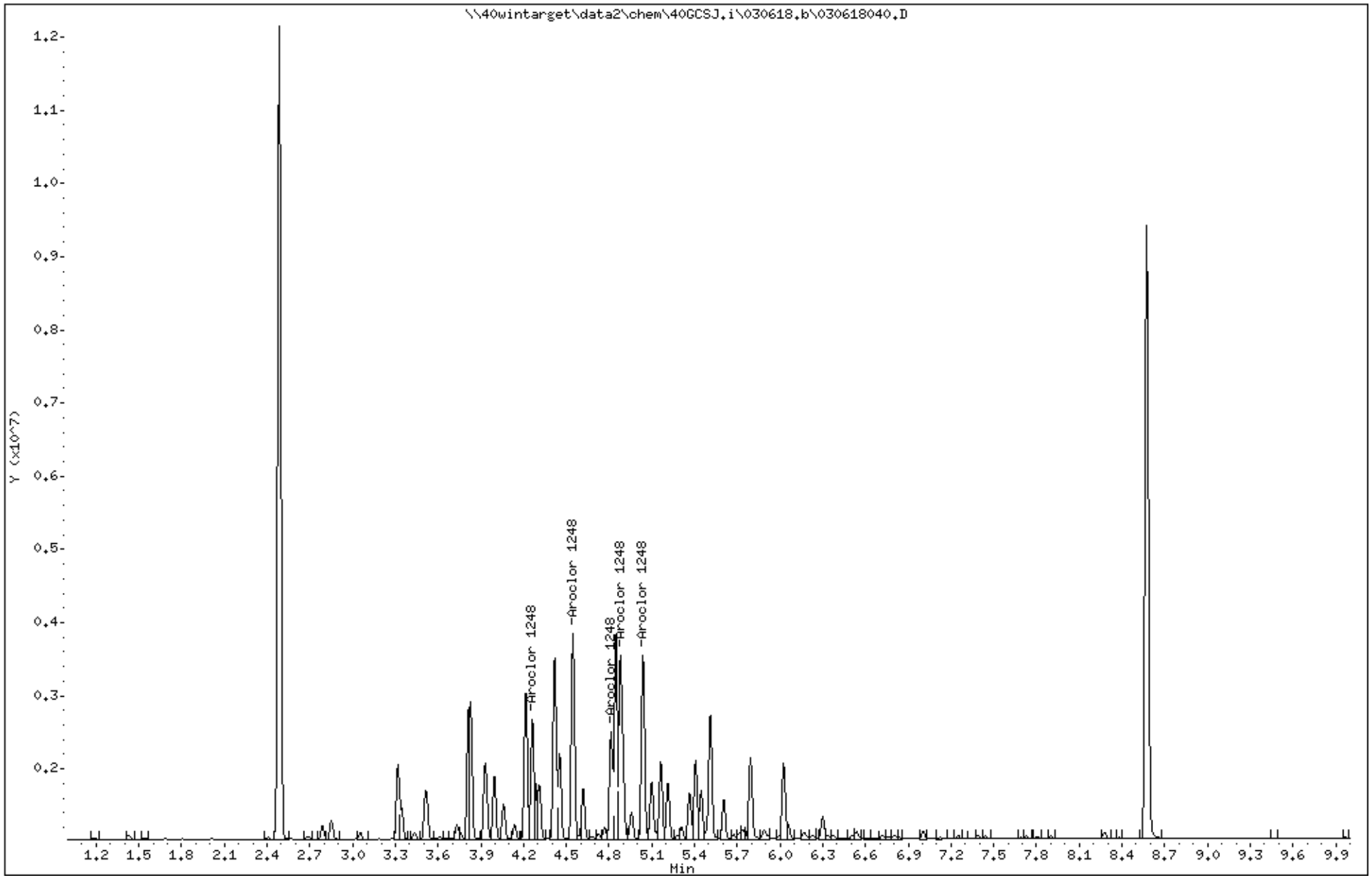
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

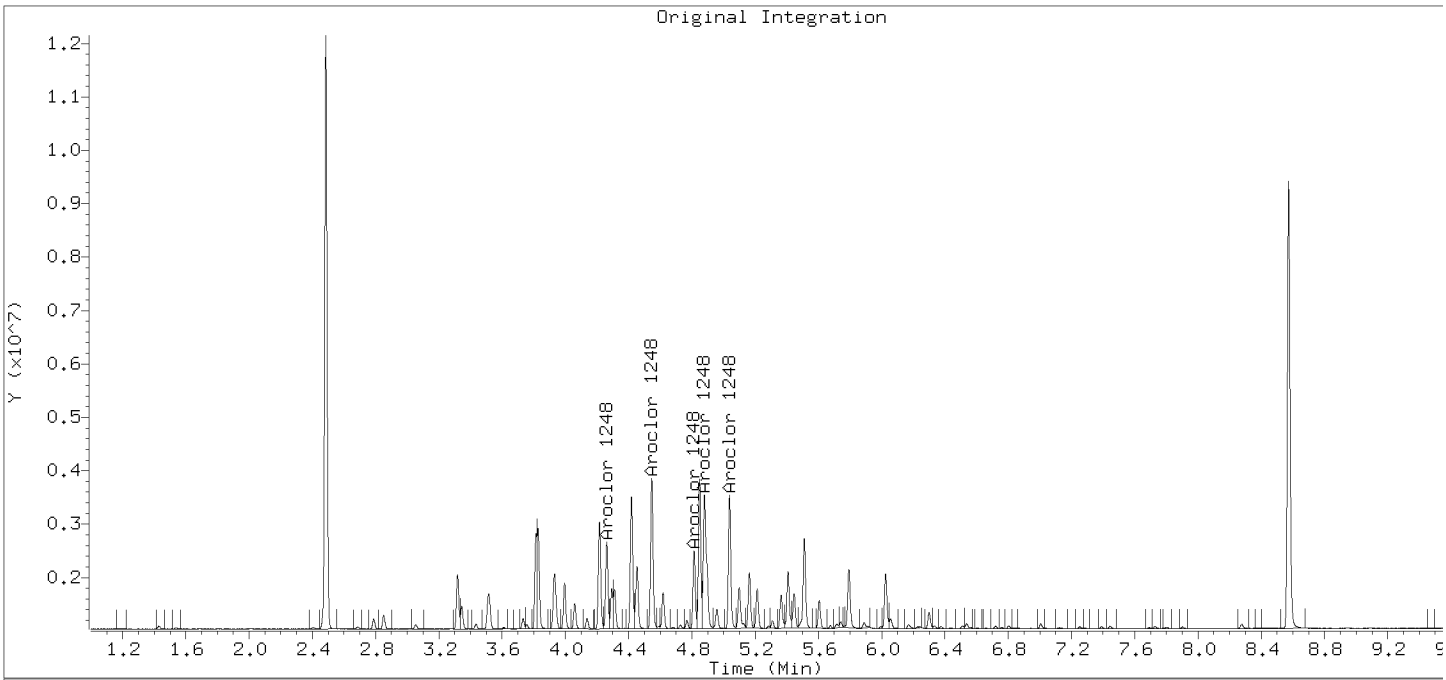
Operator: BLM

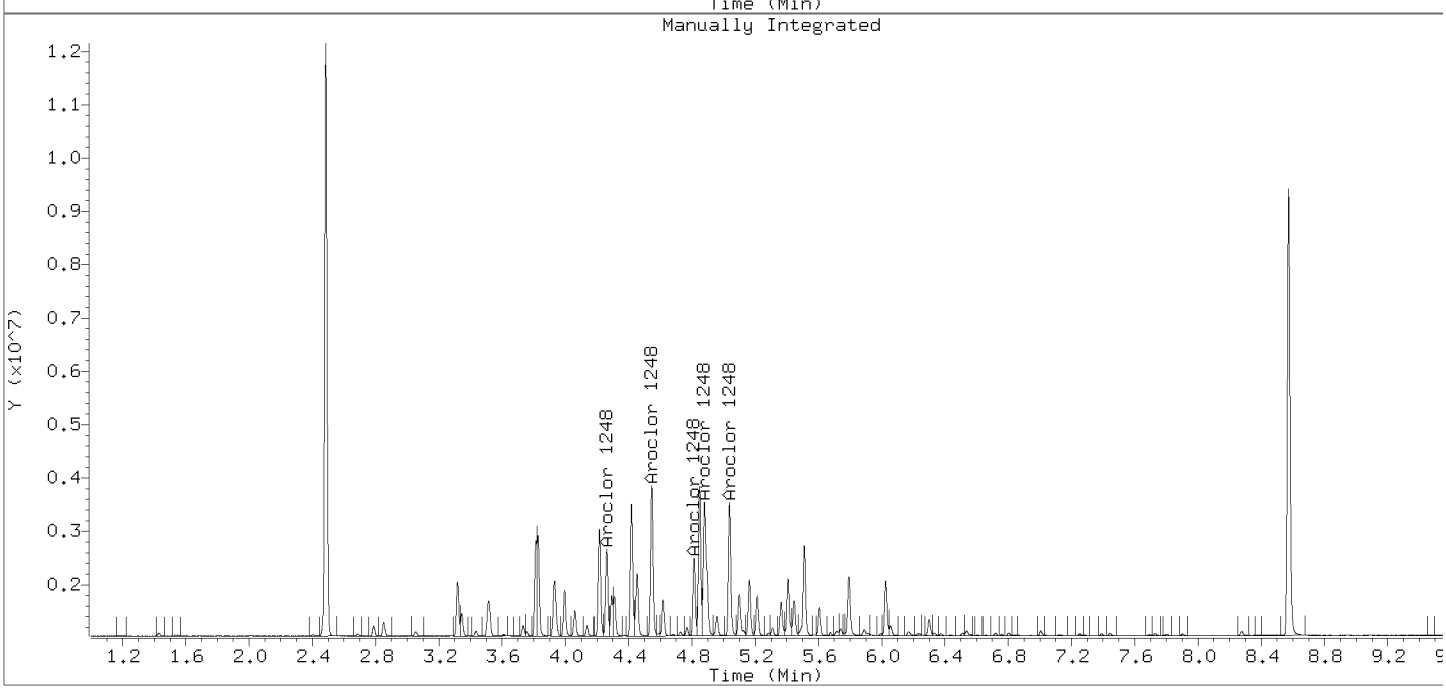
Column phase: ZB-1ms

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

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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

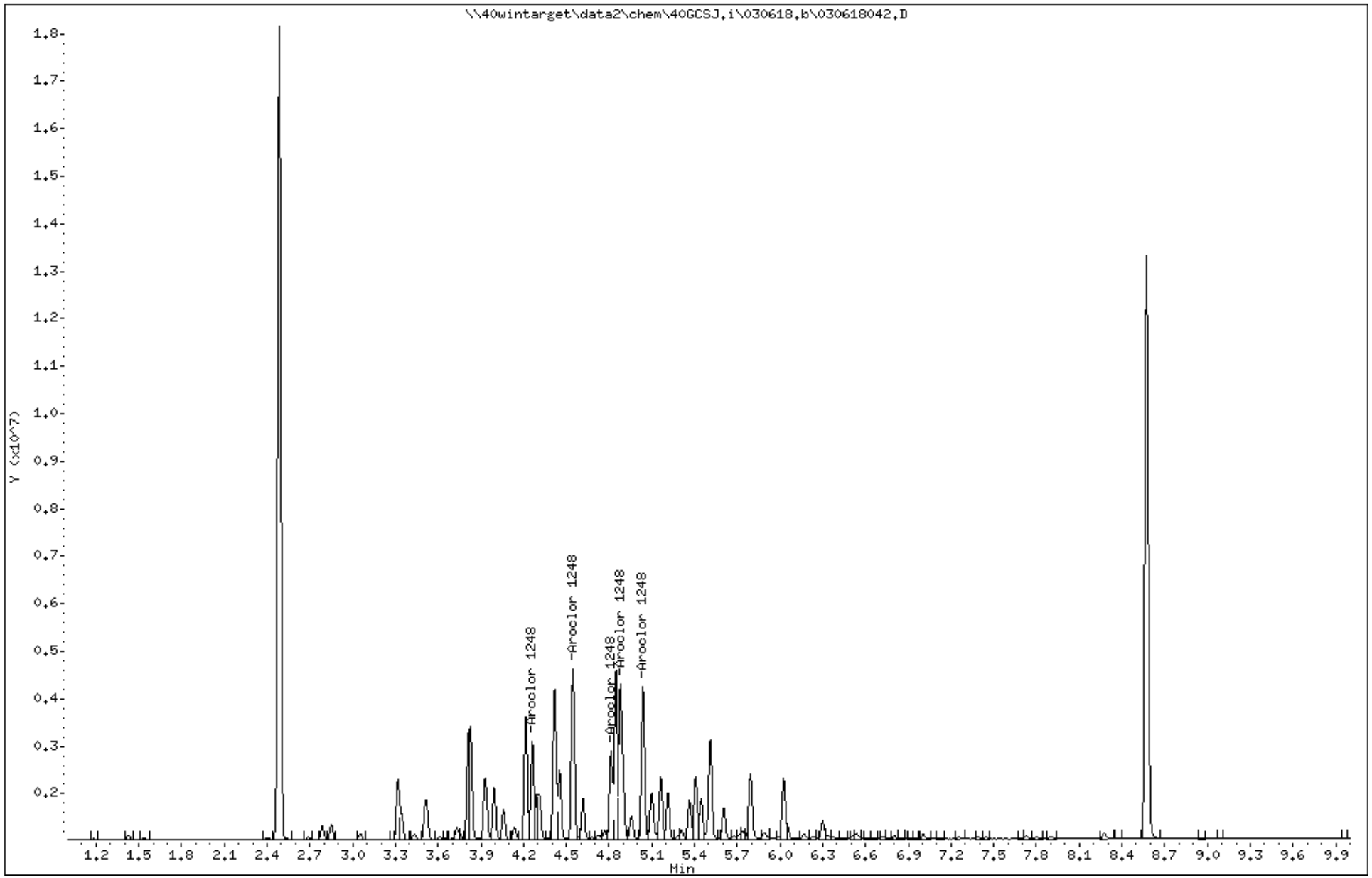
M - Compound response manually integrated.

Review Codes Legend

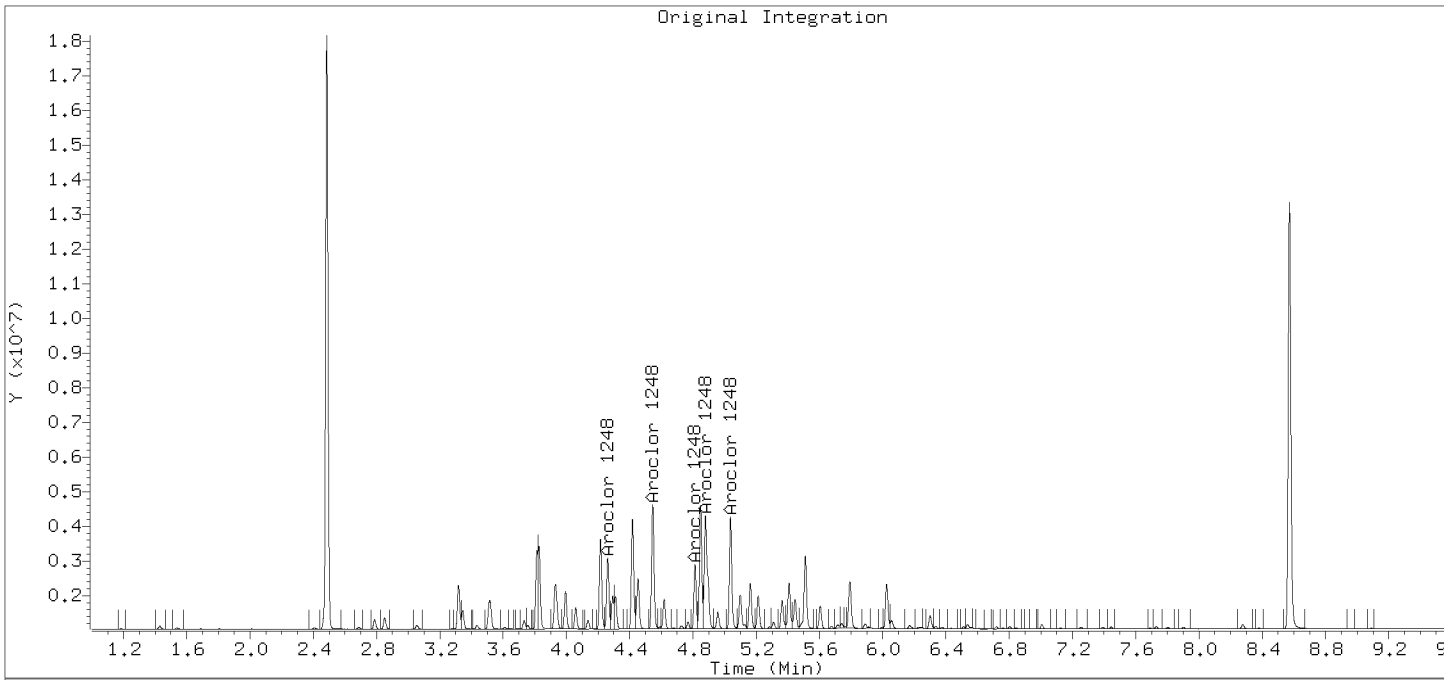
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

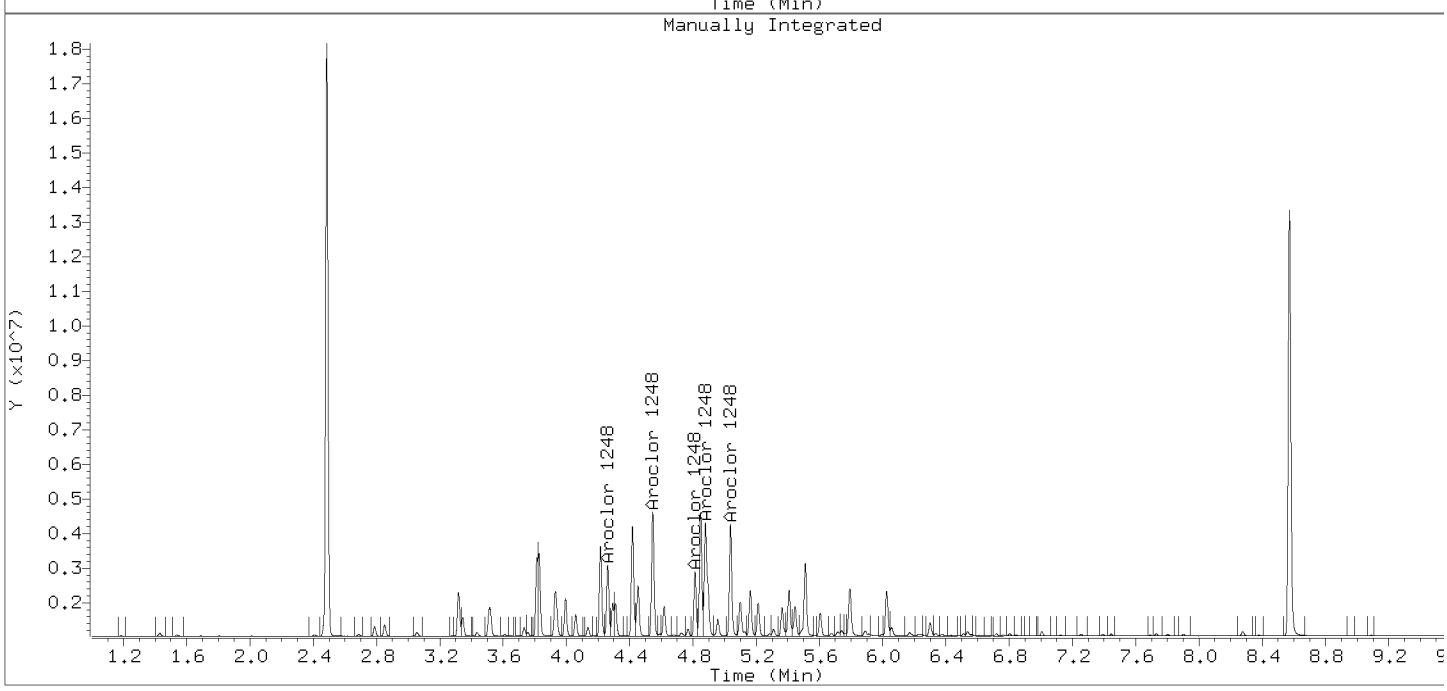
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Date : 06-MAR-2018 16:25
Client ID: 1248-CAL5D
Sample Info: 1248-CAL5D, 185551:1

Instrument: 40GCSJ.i
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

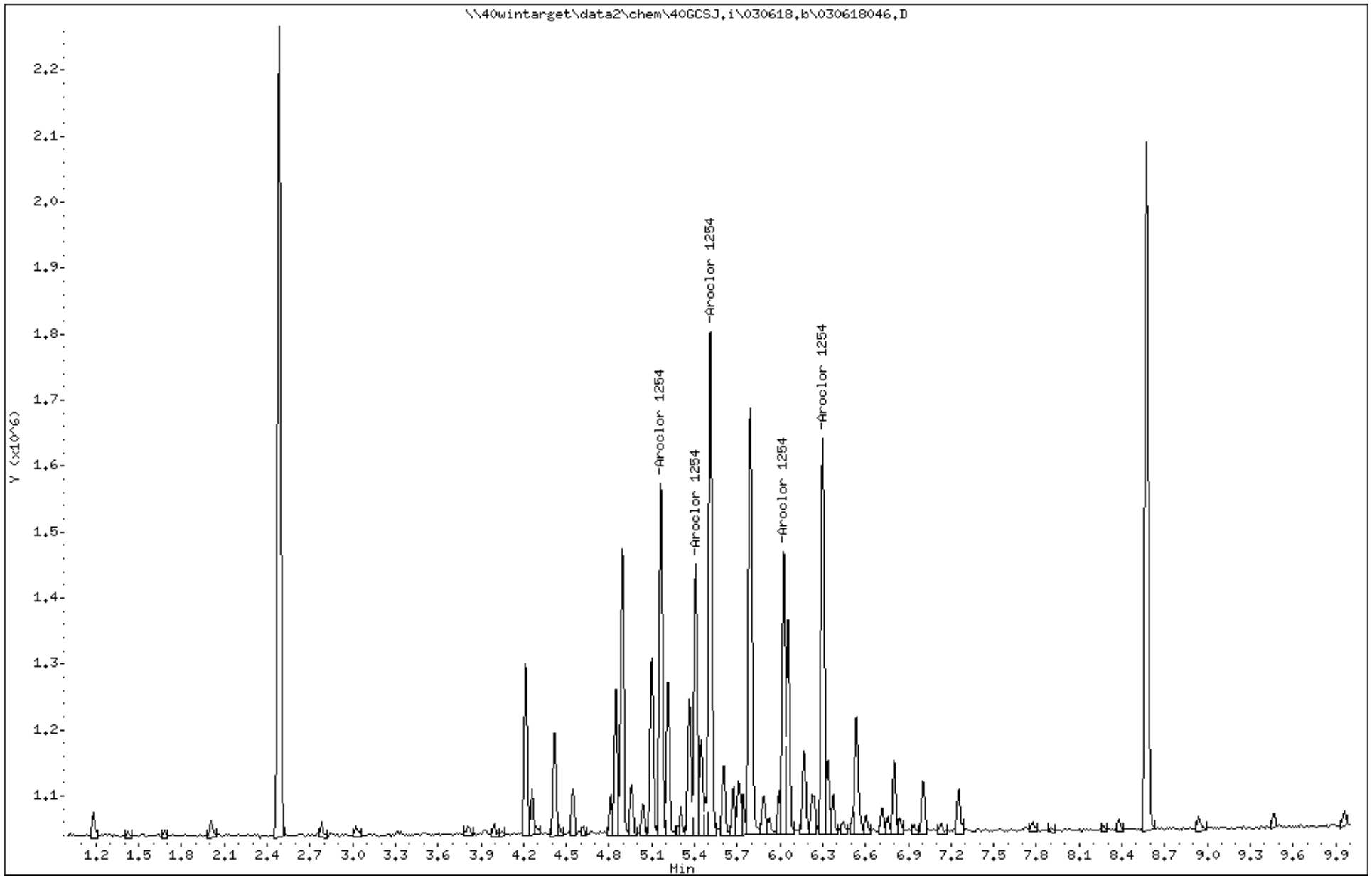
M - Compound response manually integrated.

Review Codes Legend

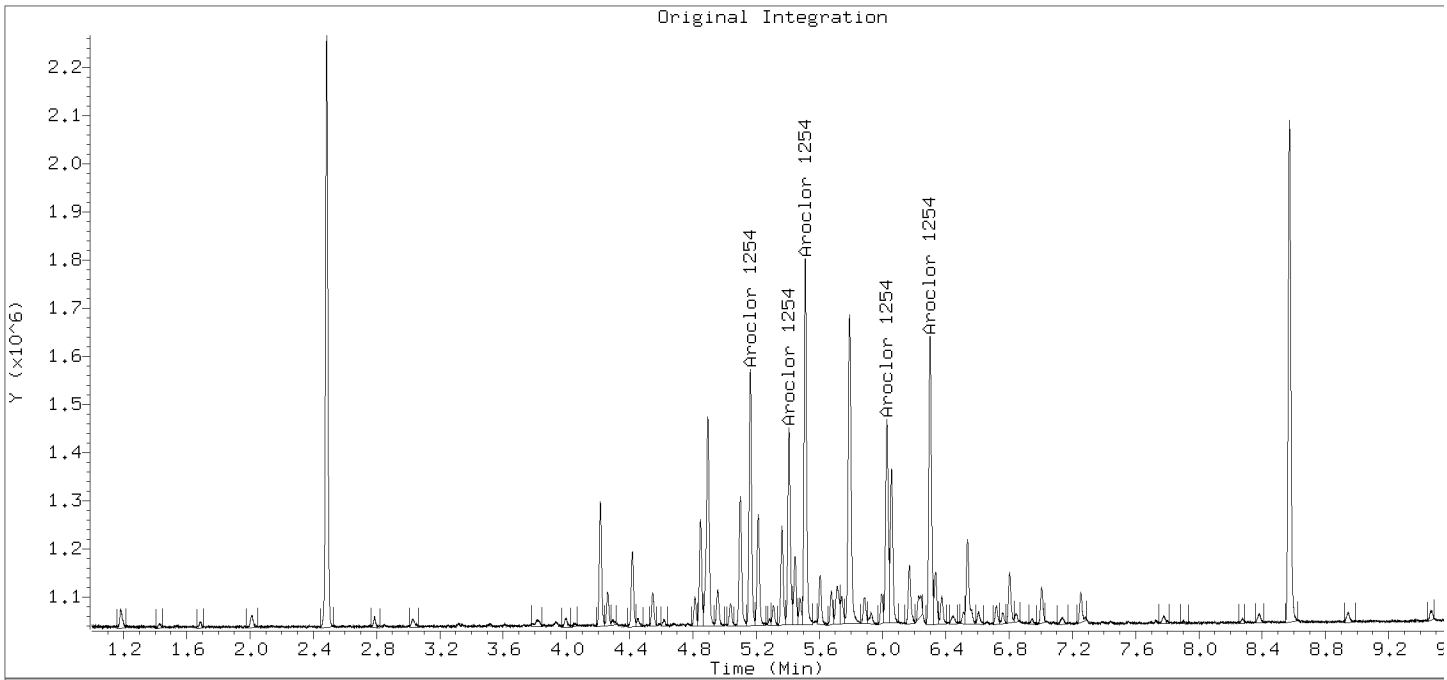
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

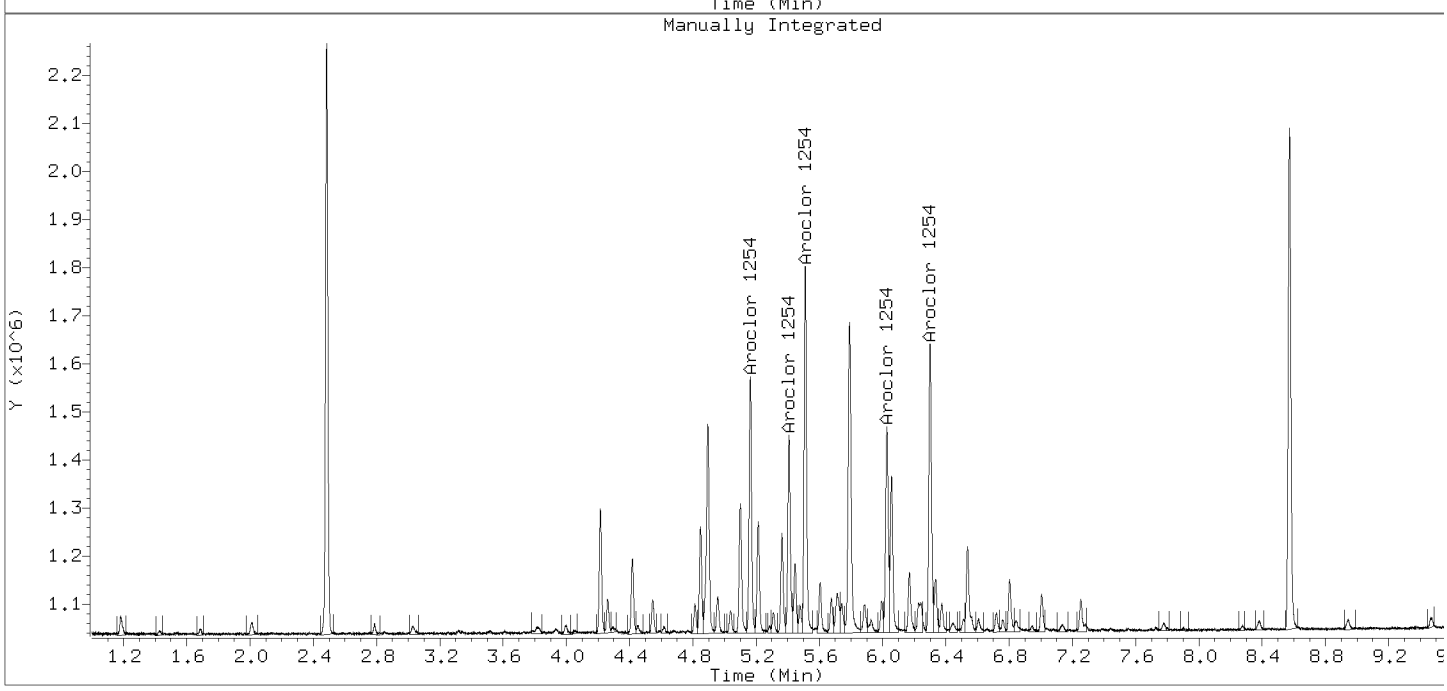
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

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

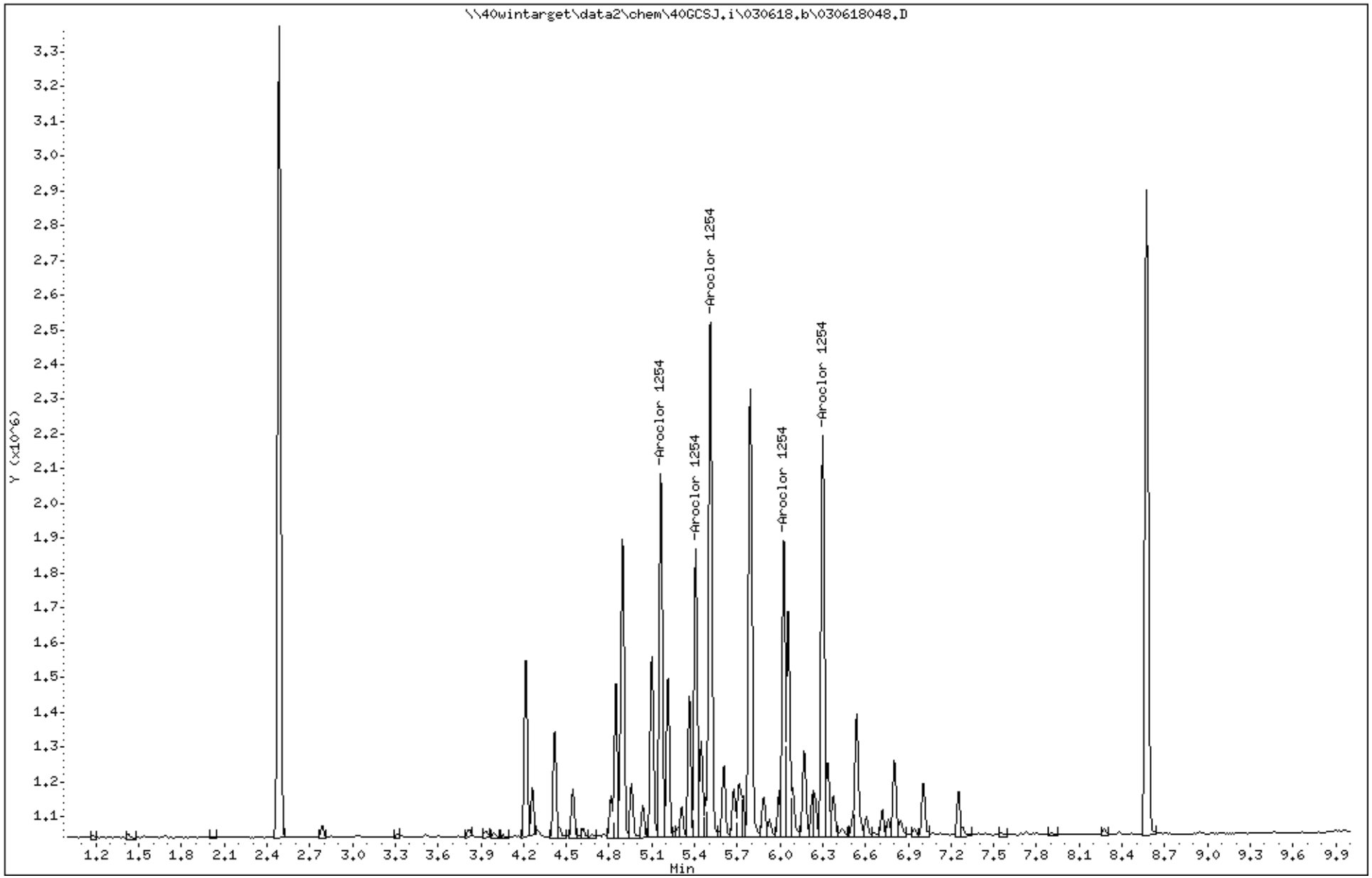
M - Compound response manually integrated.

Review Codes Legend

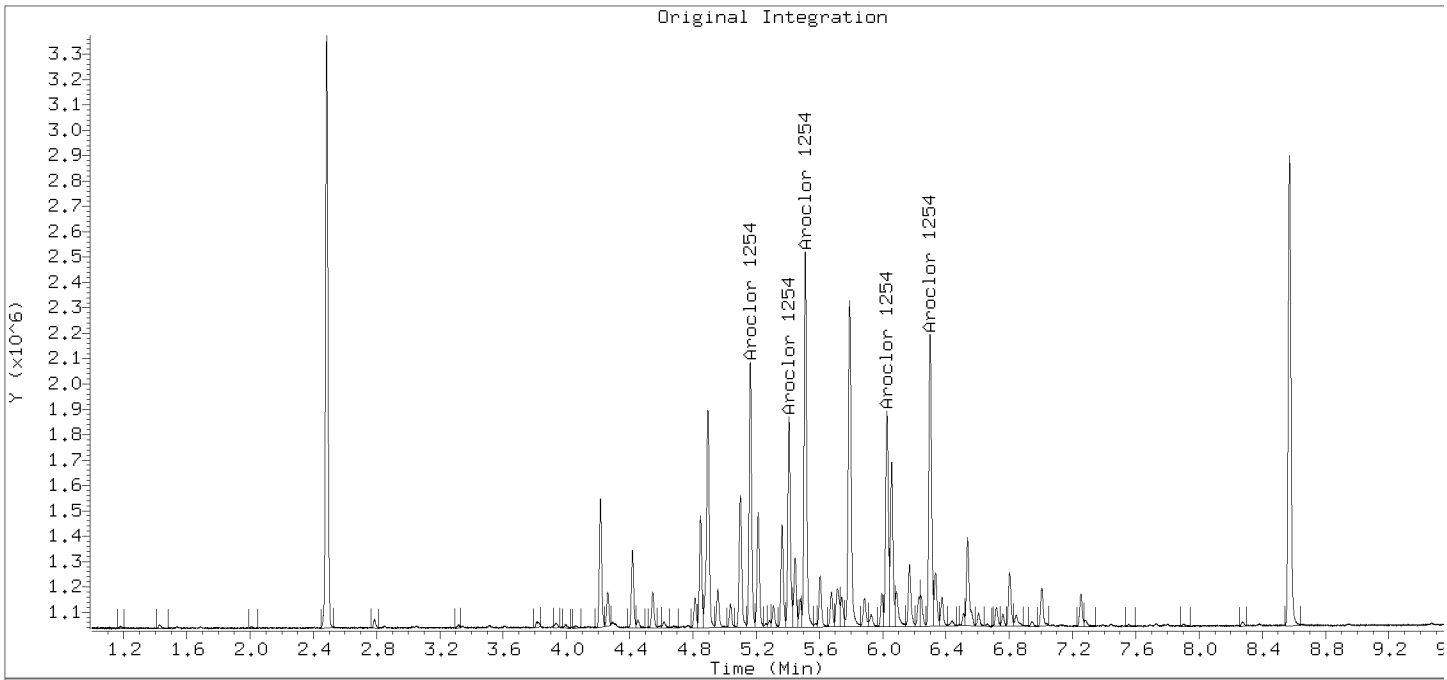
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

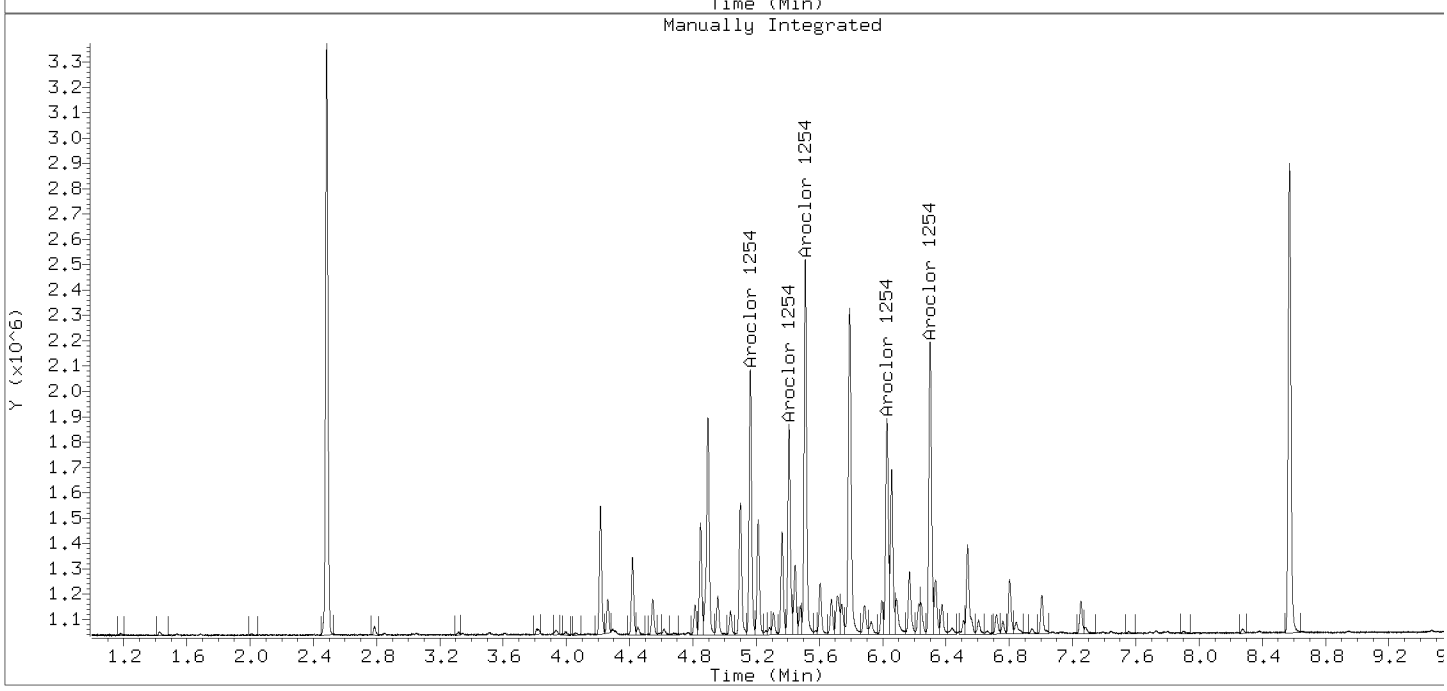
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

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

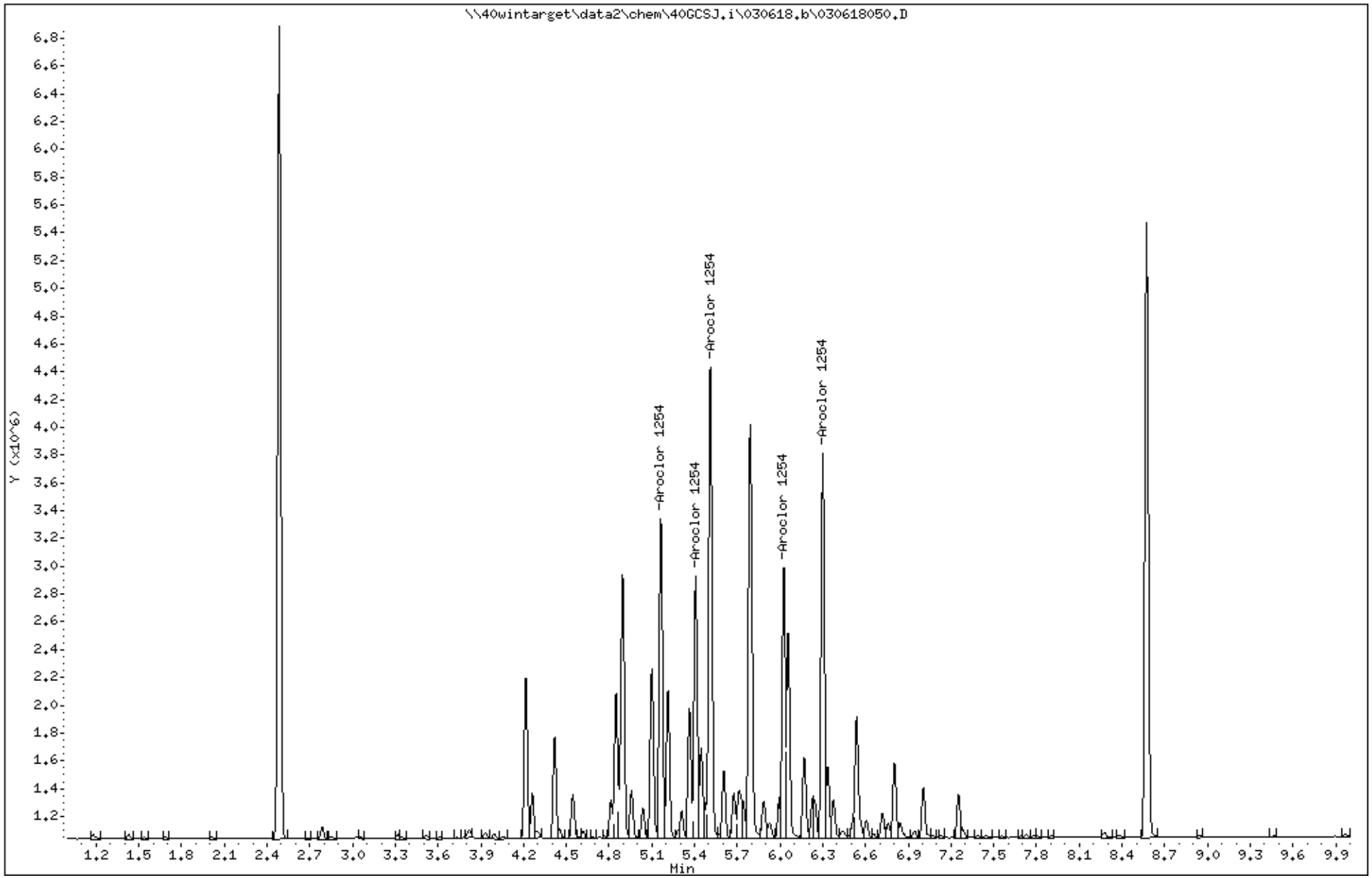
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

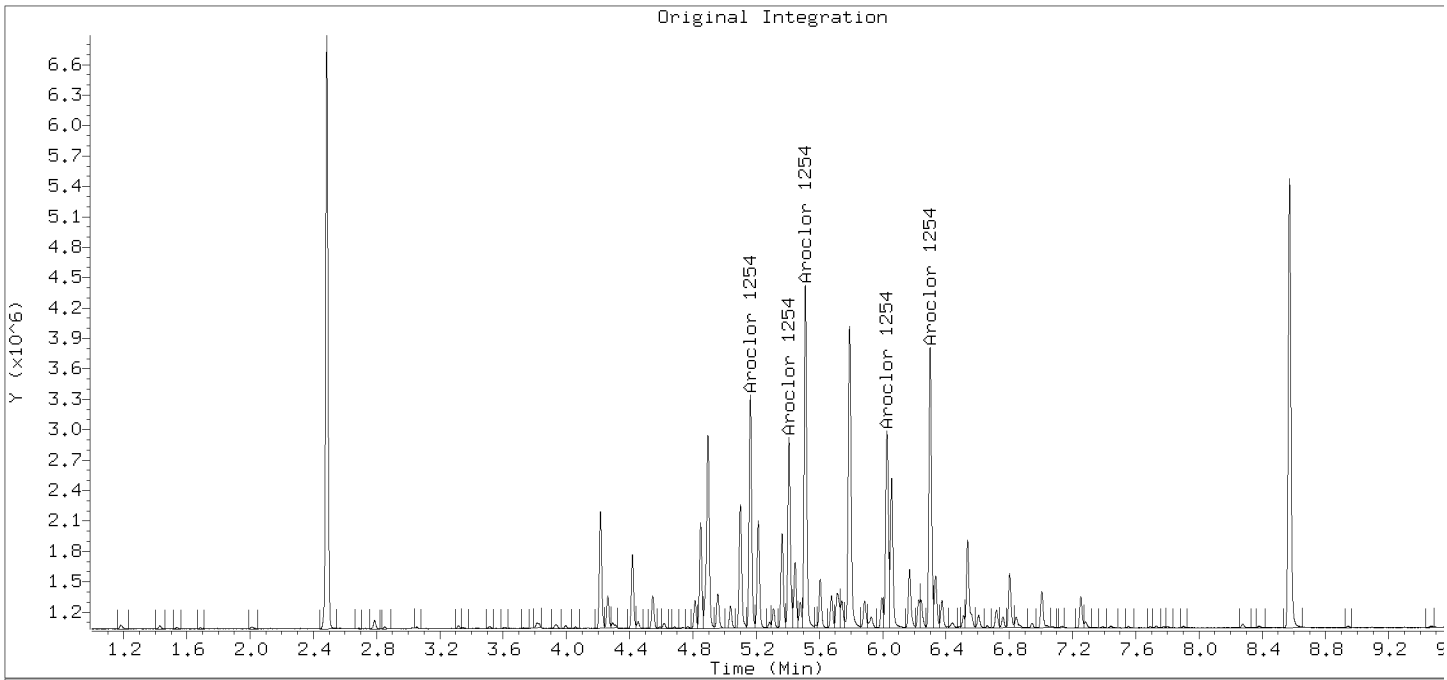
Operator: BLM

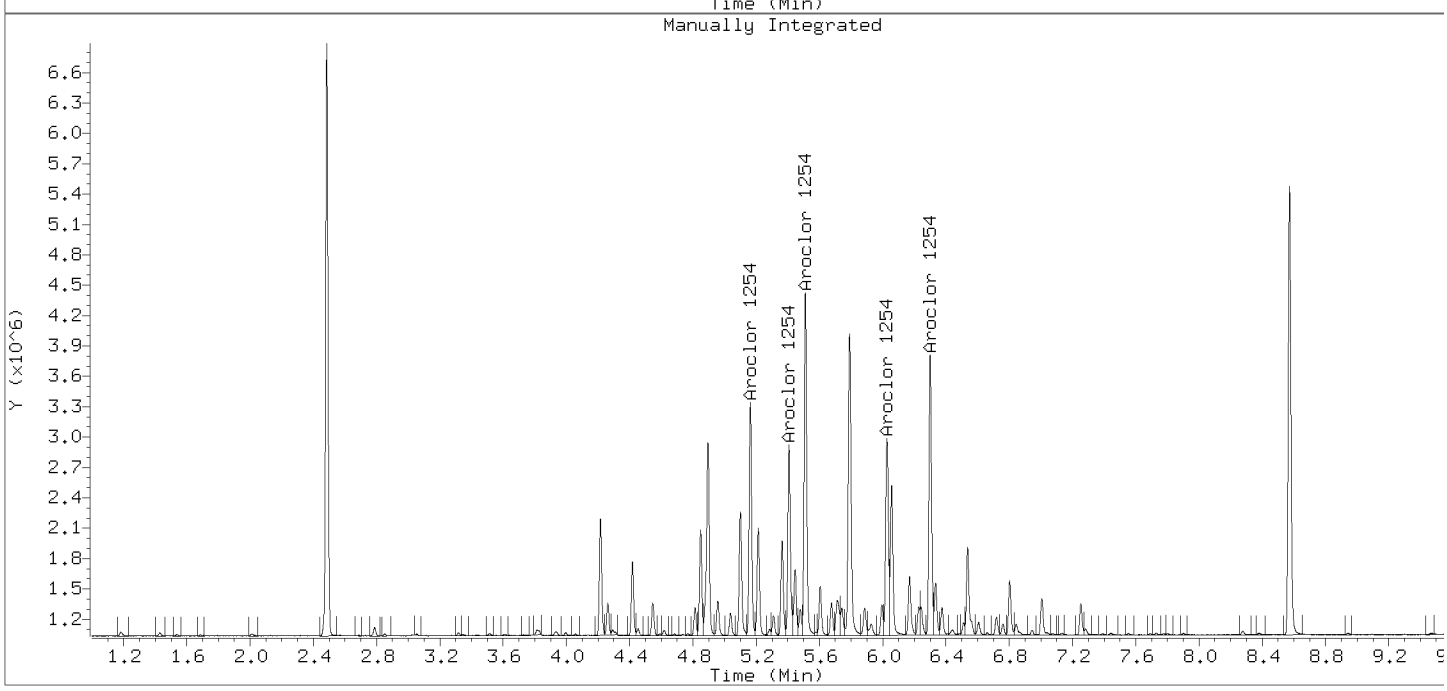
Column phase: ZB-1ms

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

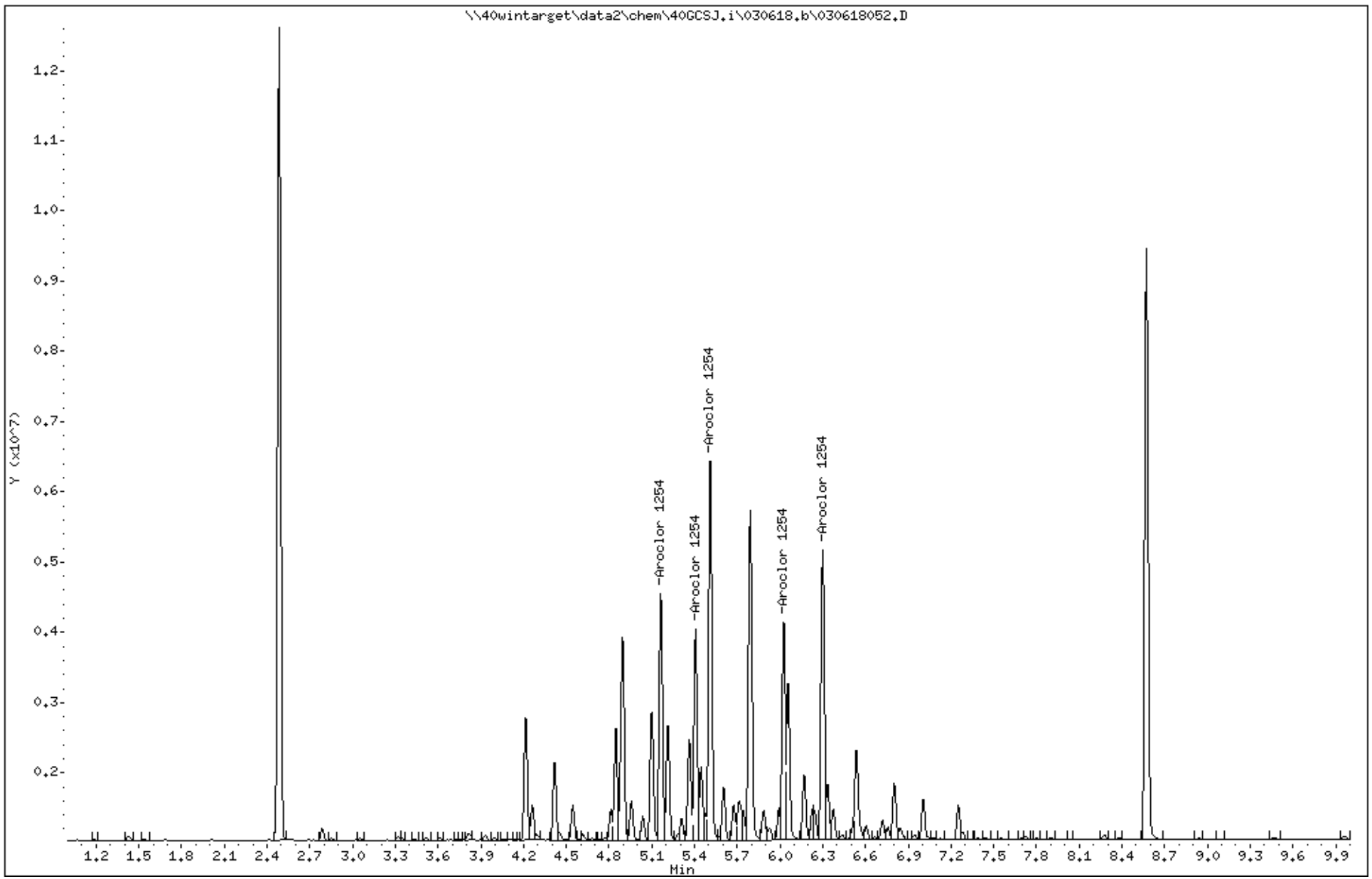
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

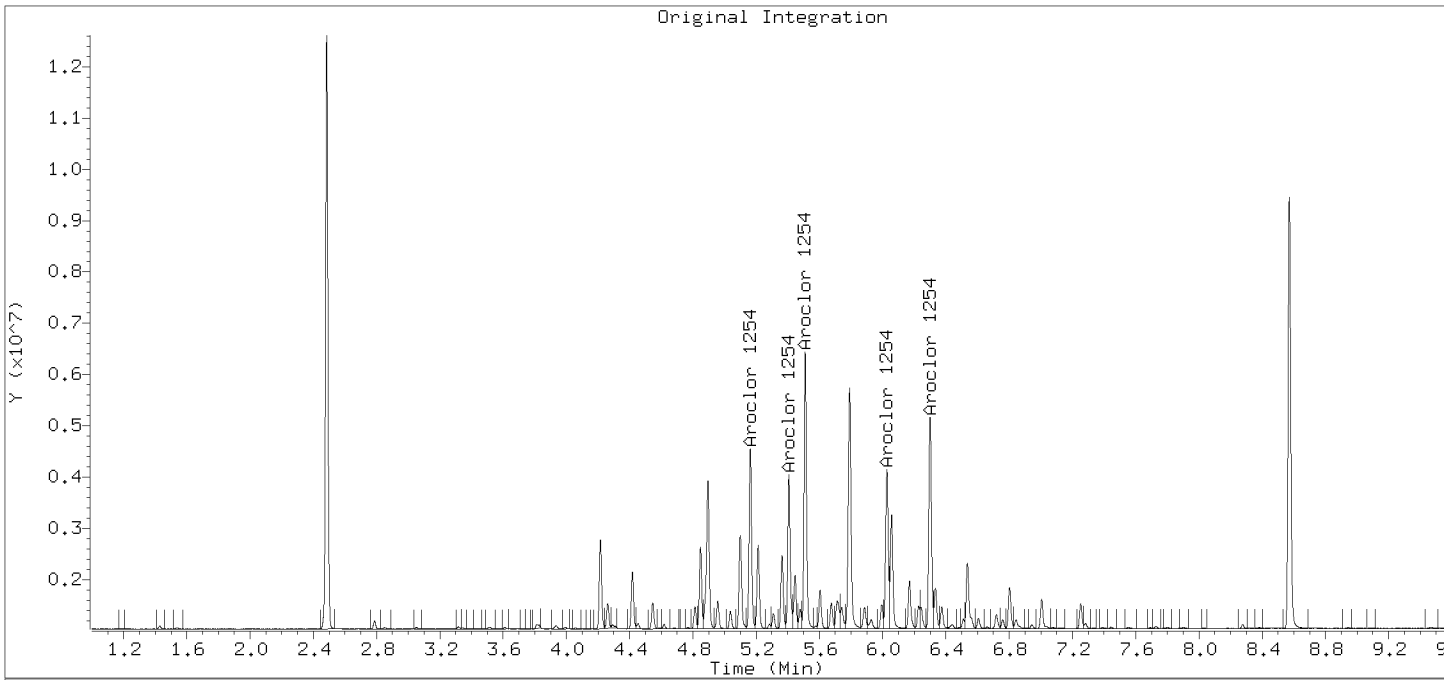
Operator: BLM

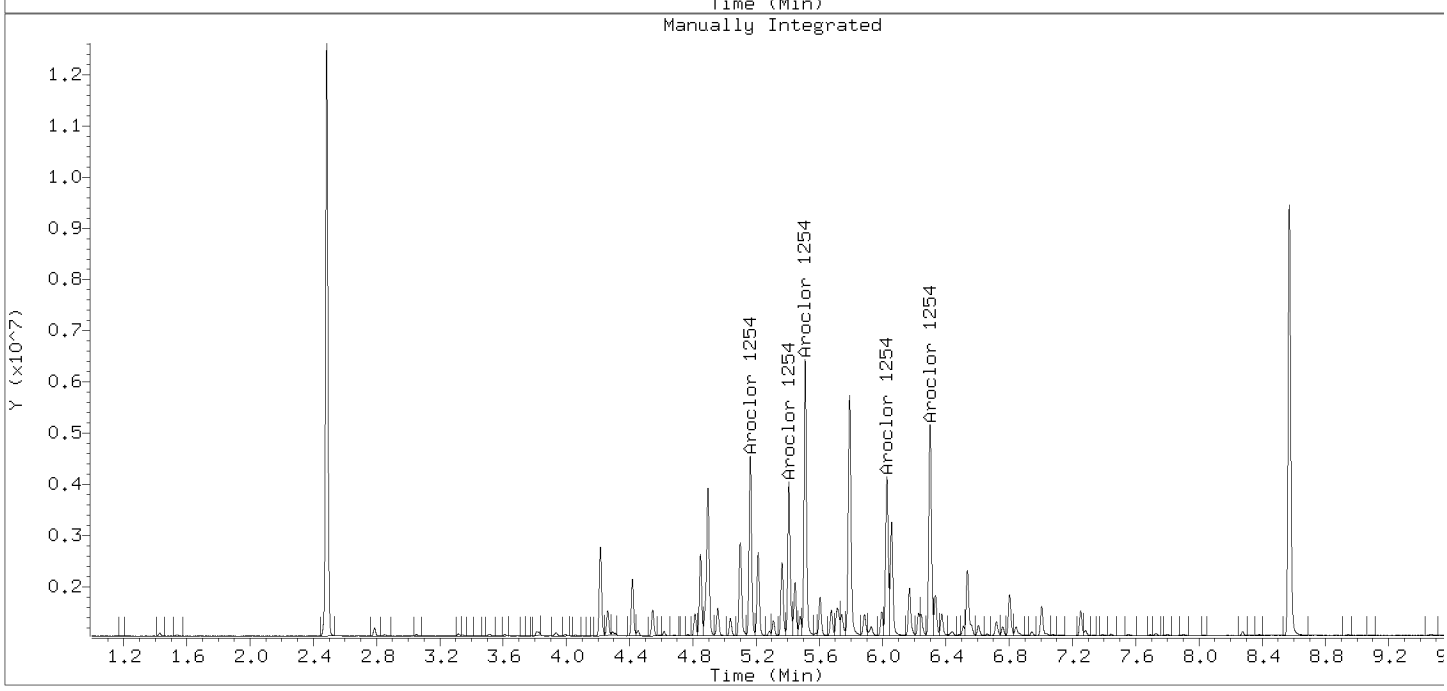
Column phase: ZB-1ms

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

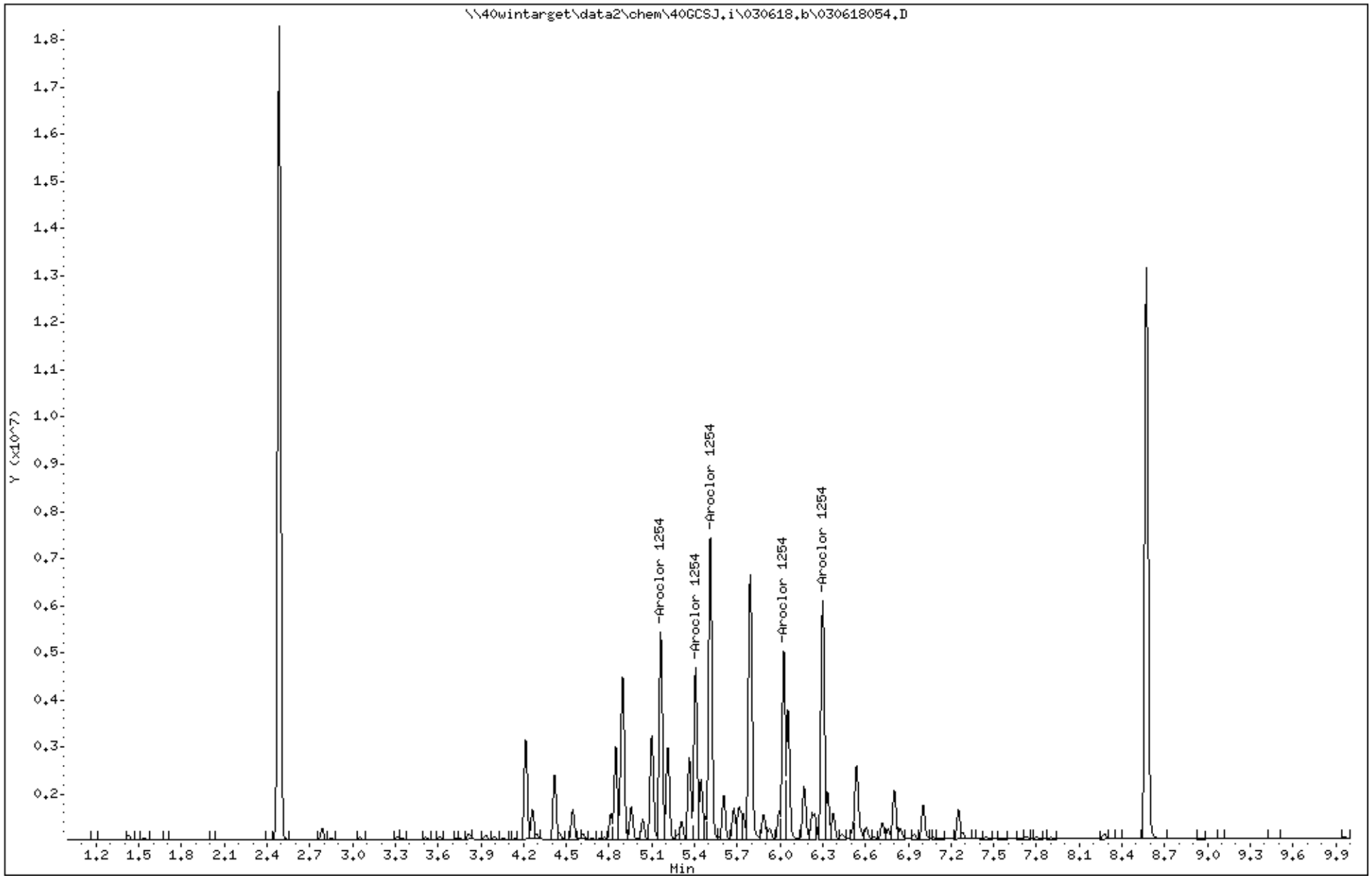
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

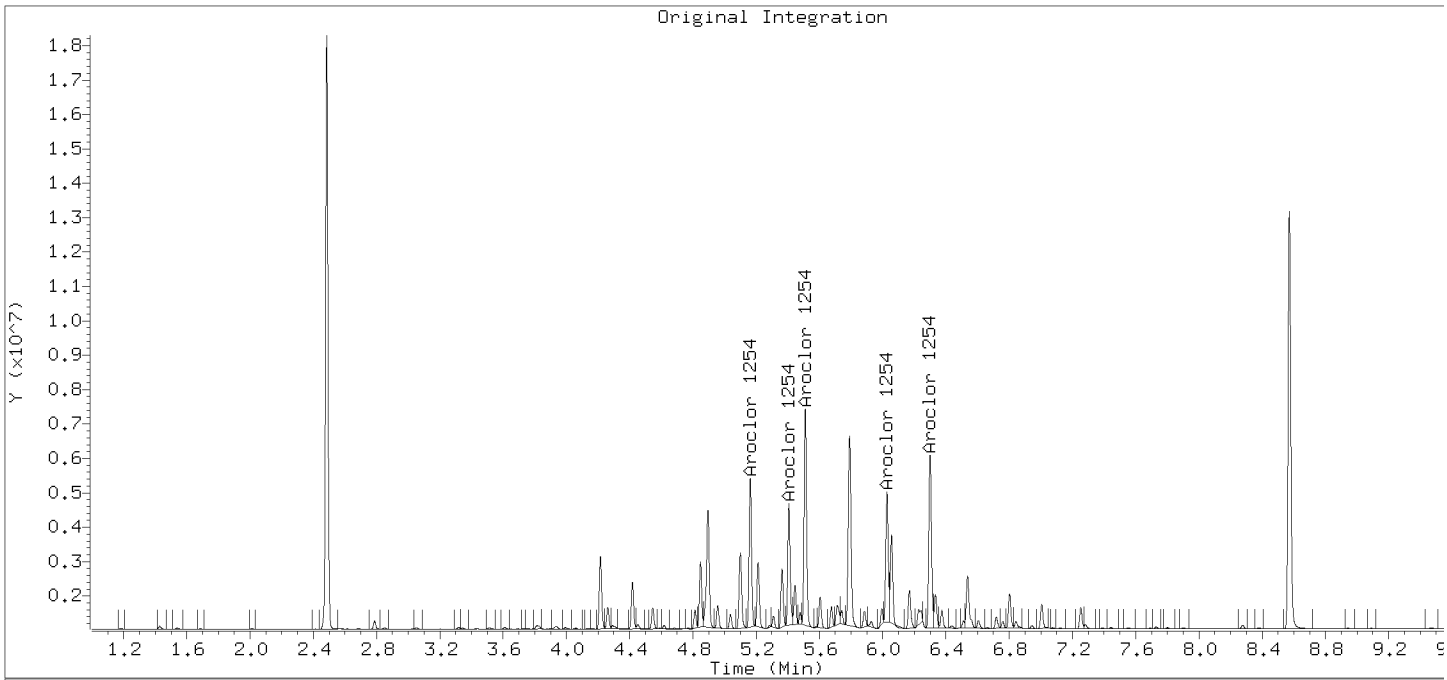
Operator: BLM

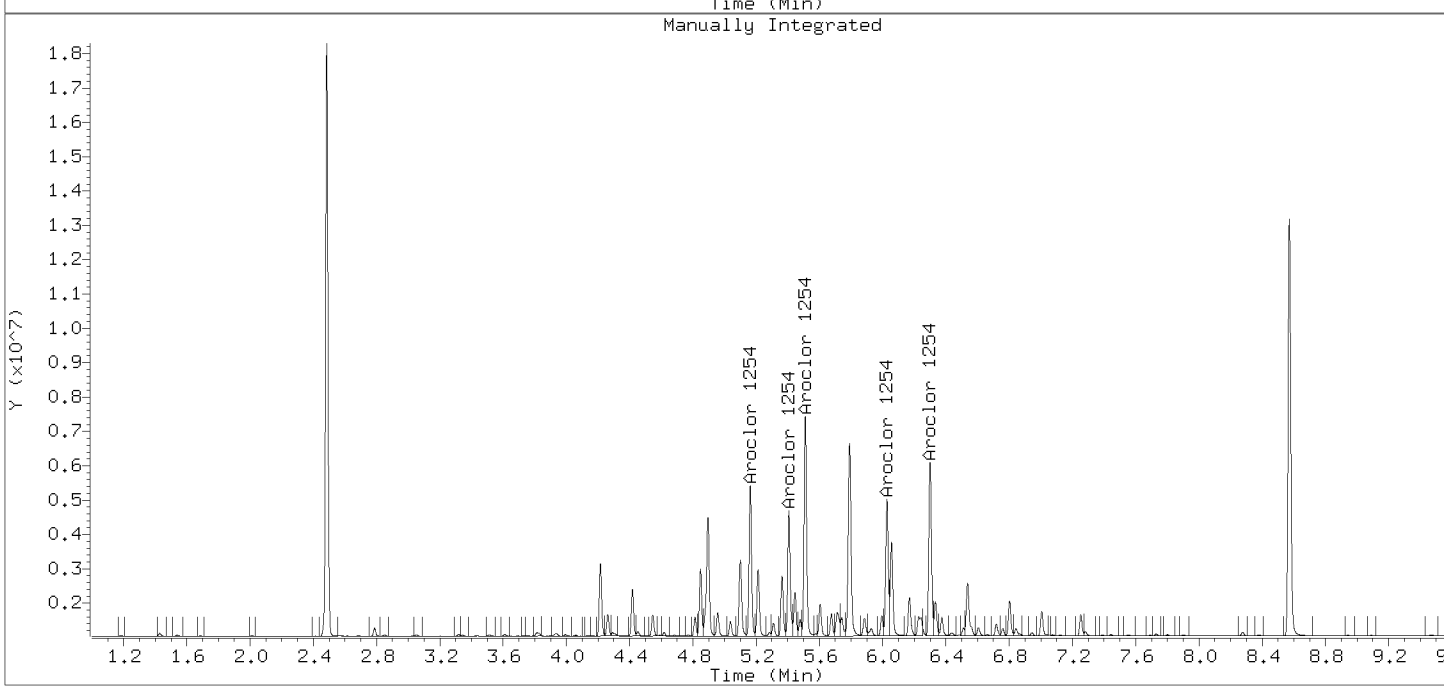
Column phase: ZB-1ms

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.

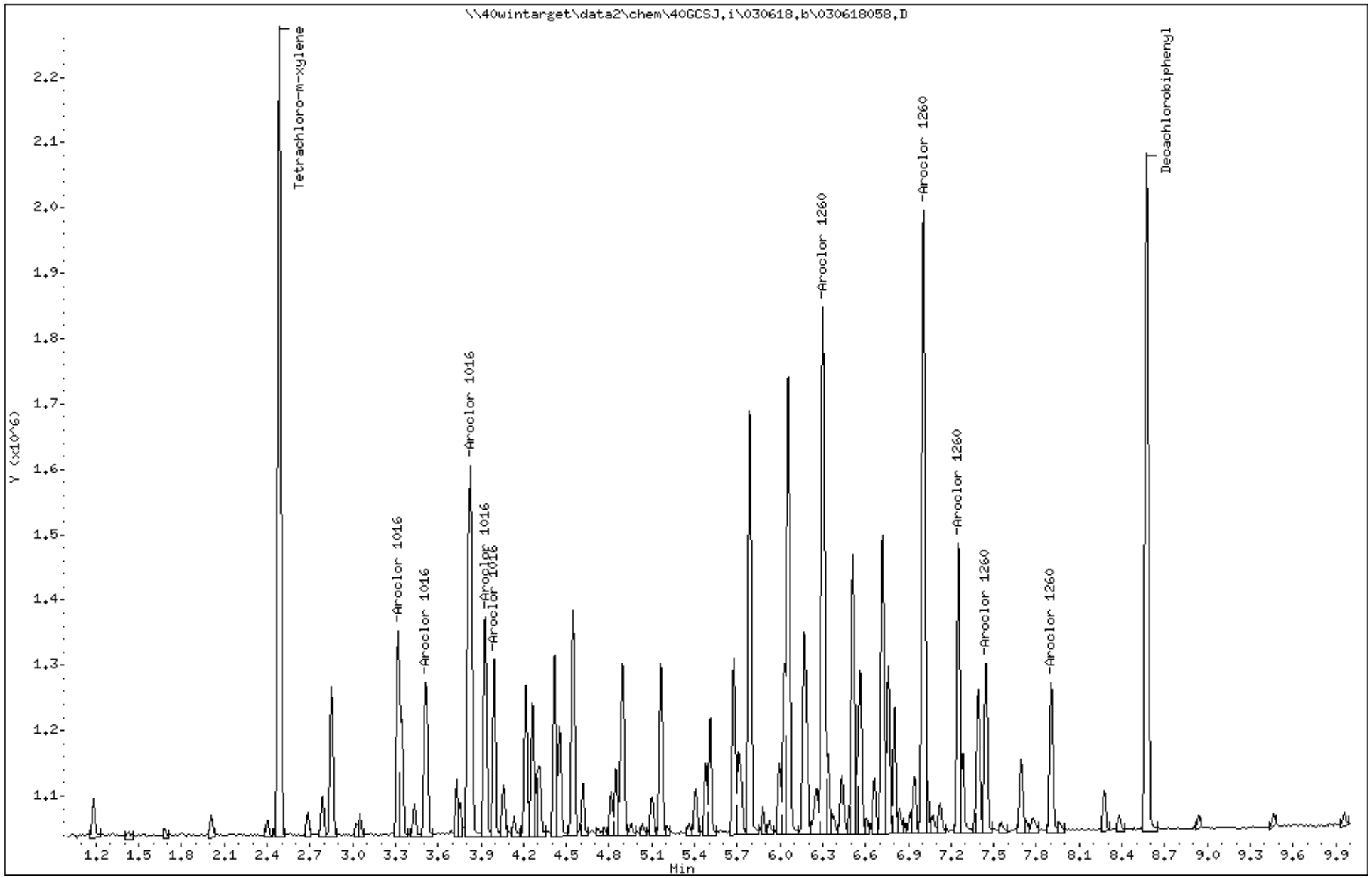
QC Flag Legend

Review Codes Legend

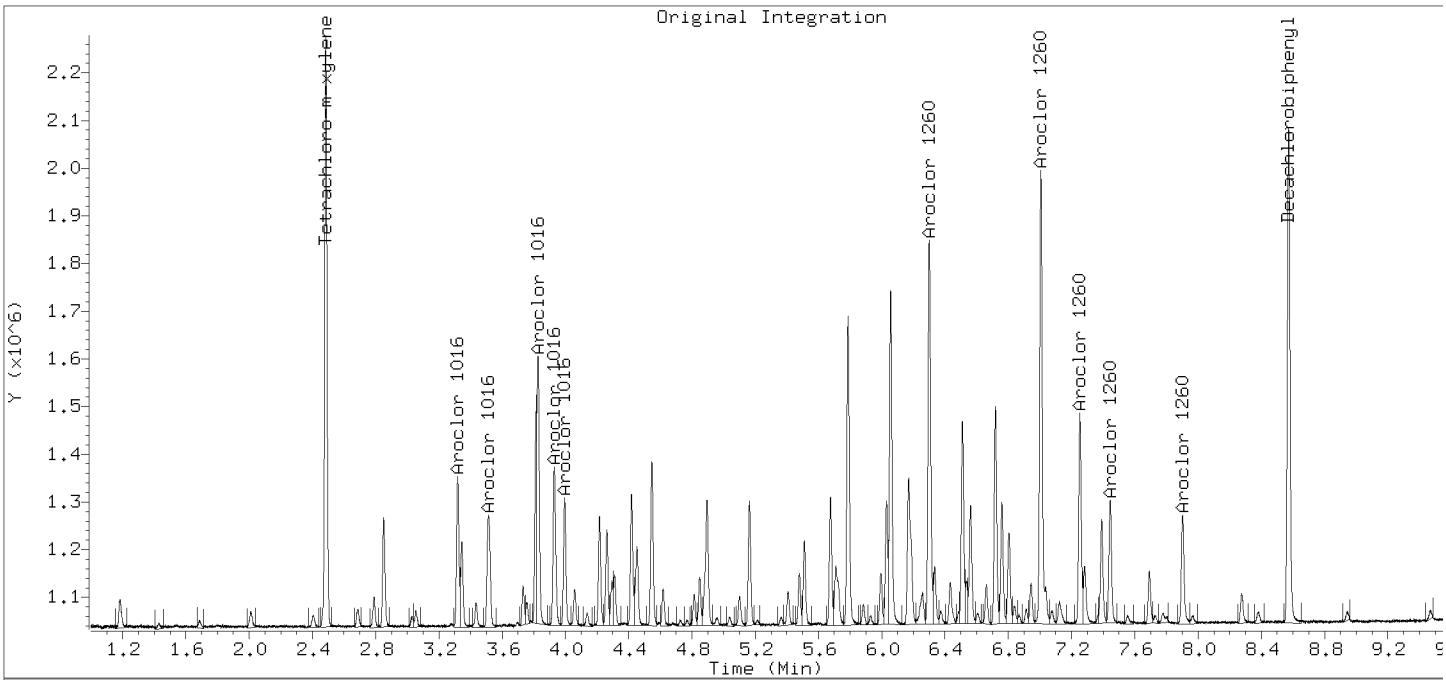
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

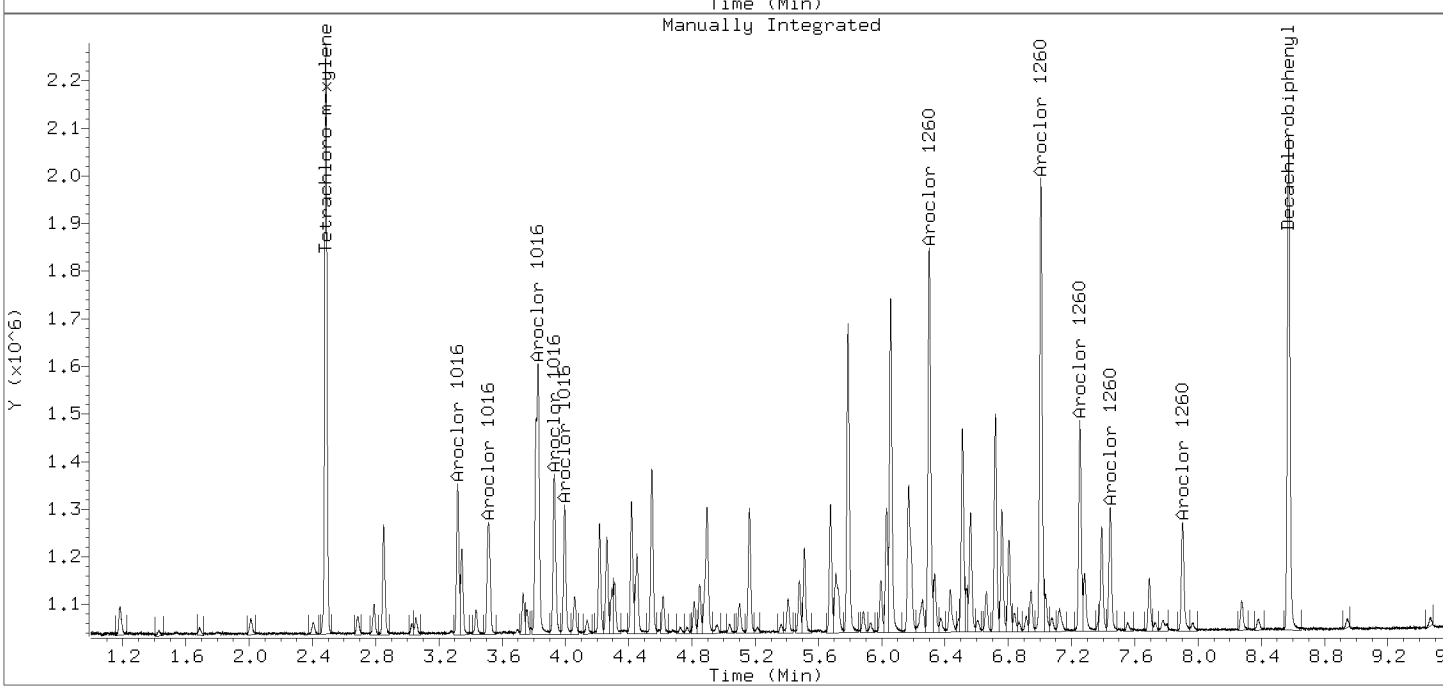
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Date : 06-MAR-2018 18:34
Client ID: 1660-CAL1A
Sample Info: 1660-CAL1A, 188136:1

Instrument: 40GCSJ.i
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	

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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.

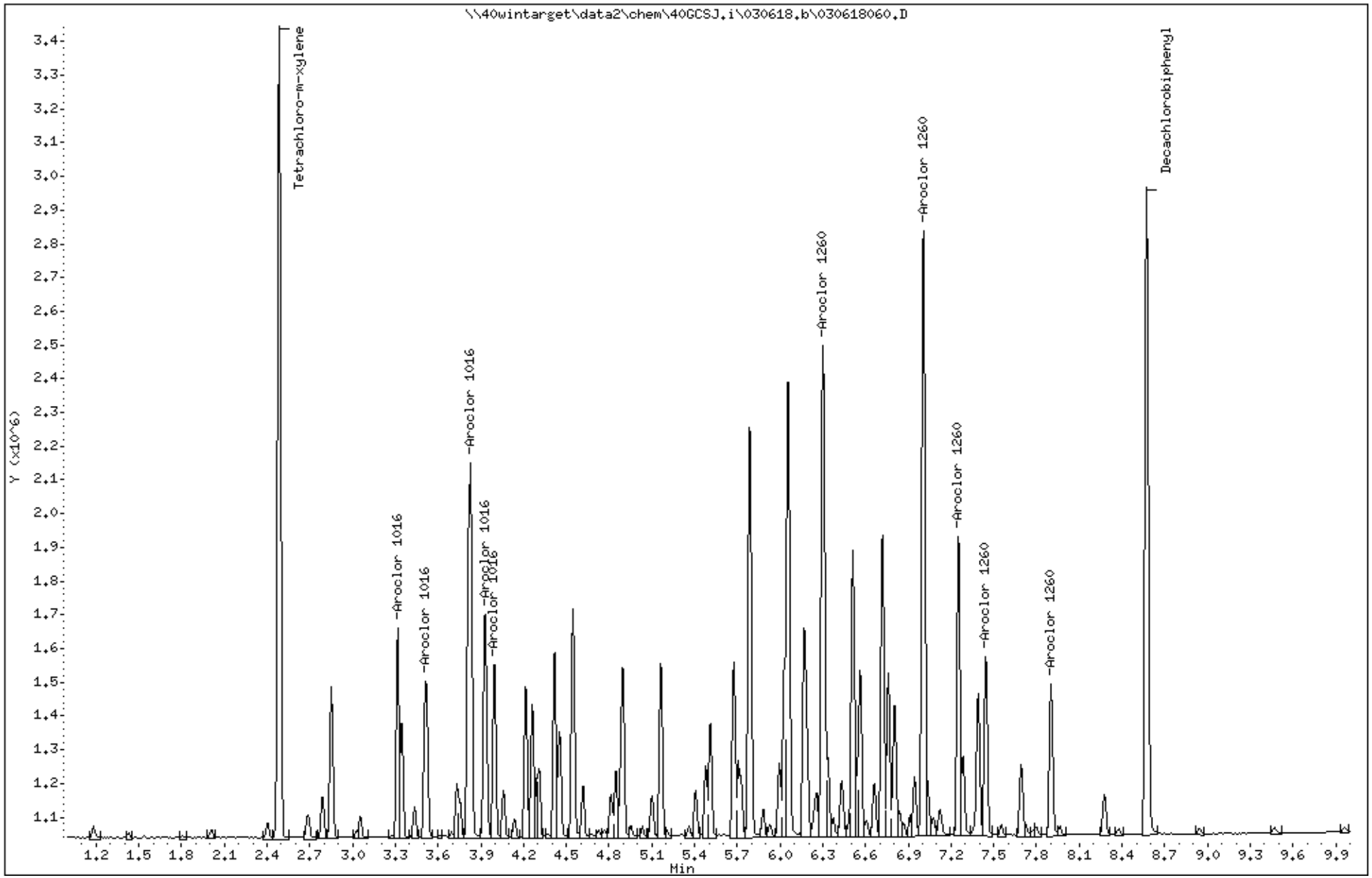
QC Flag Legend

Review Codes Legend

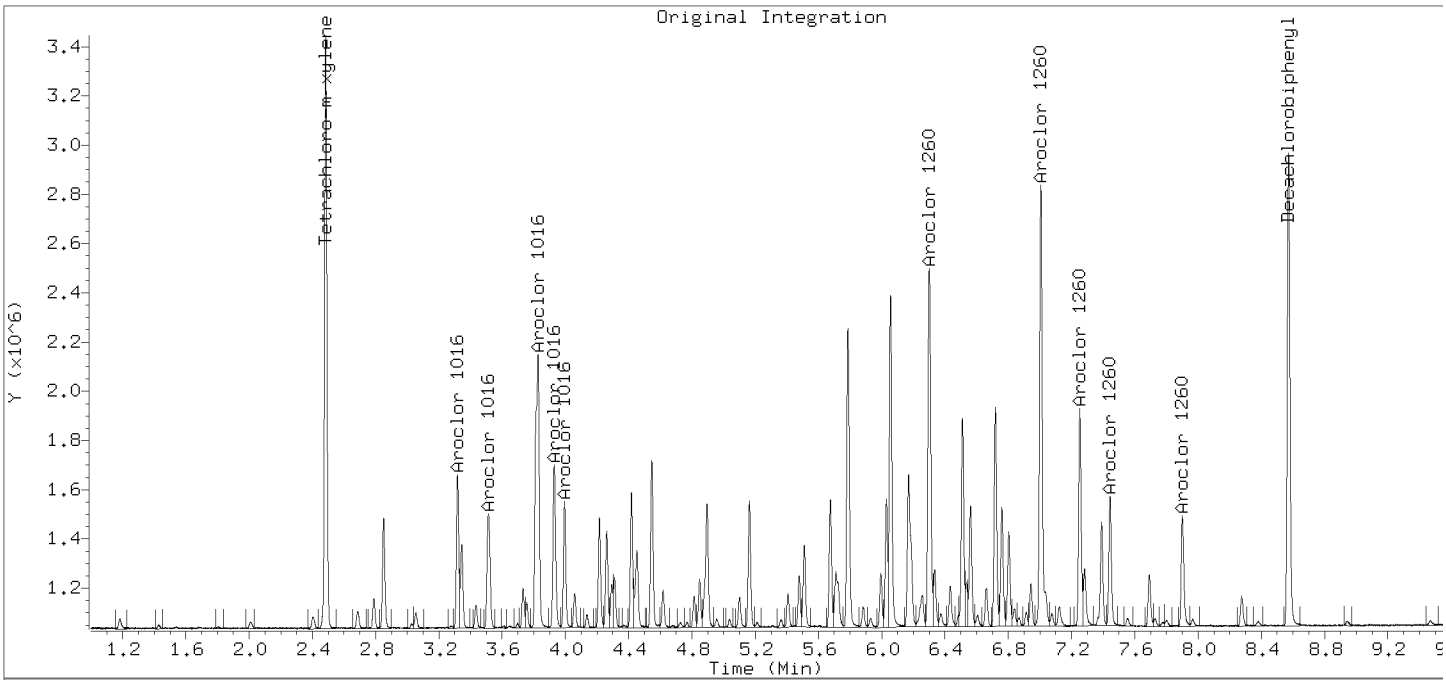
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

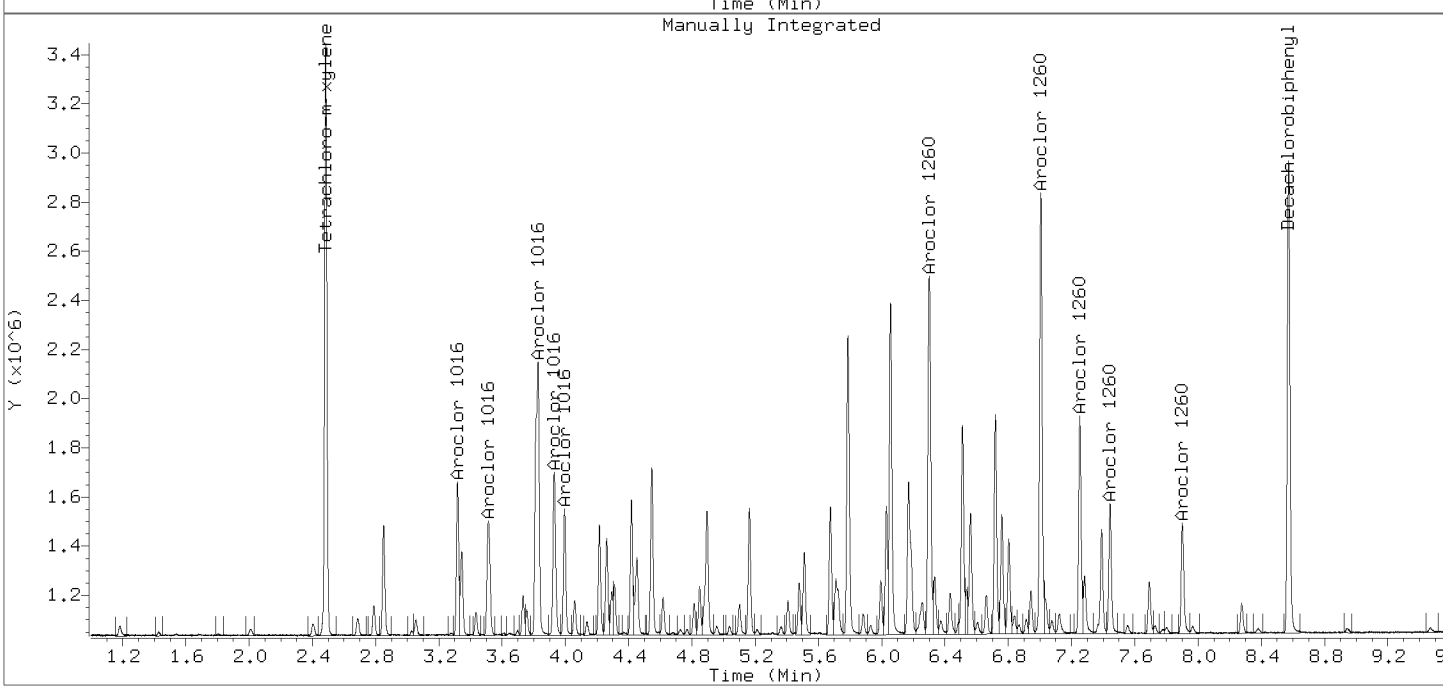
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

Instrument: 40GCSJ.i
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.

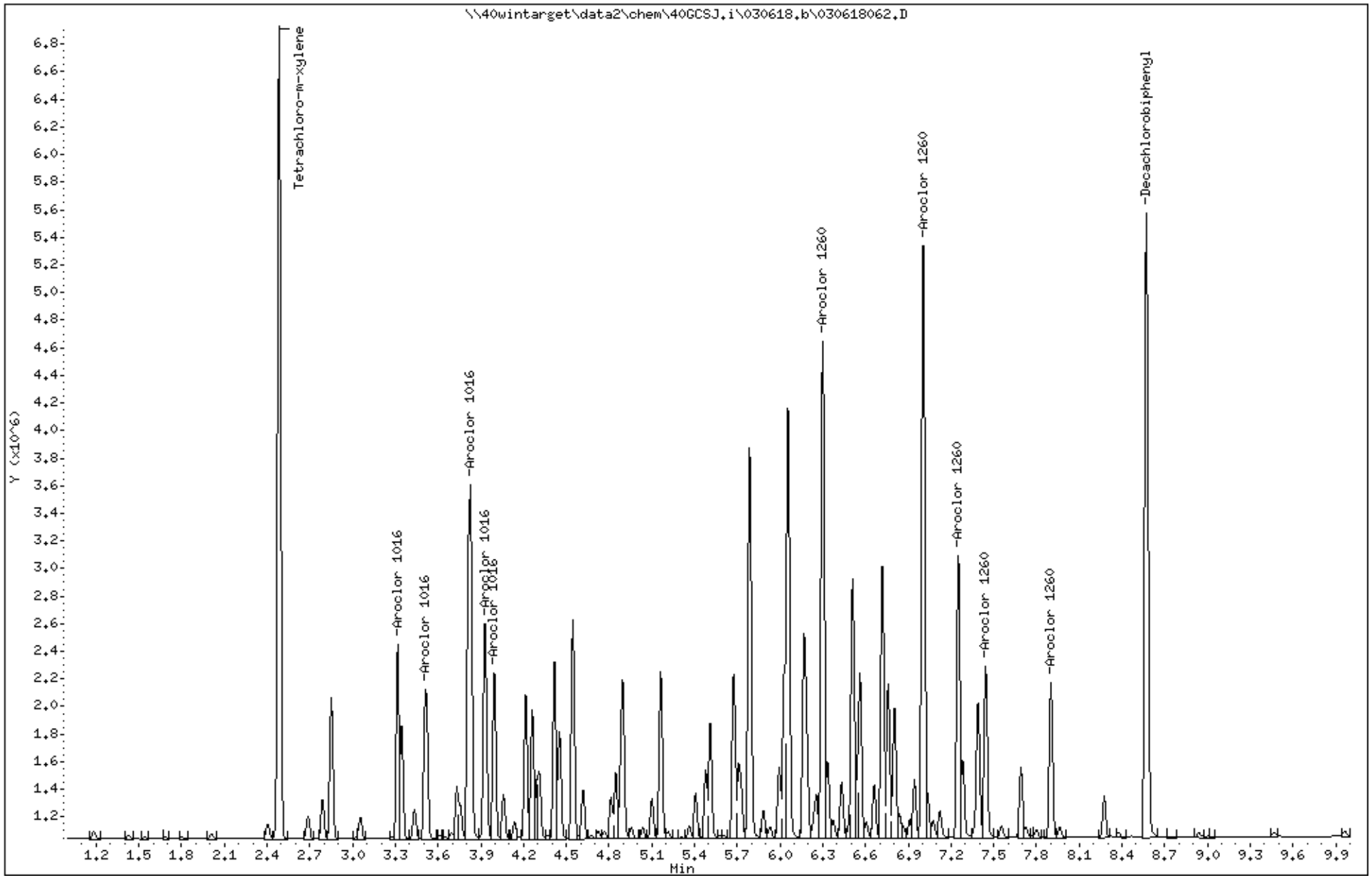
QC Flag Legend

Review Codes Legend

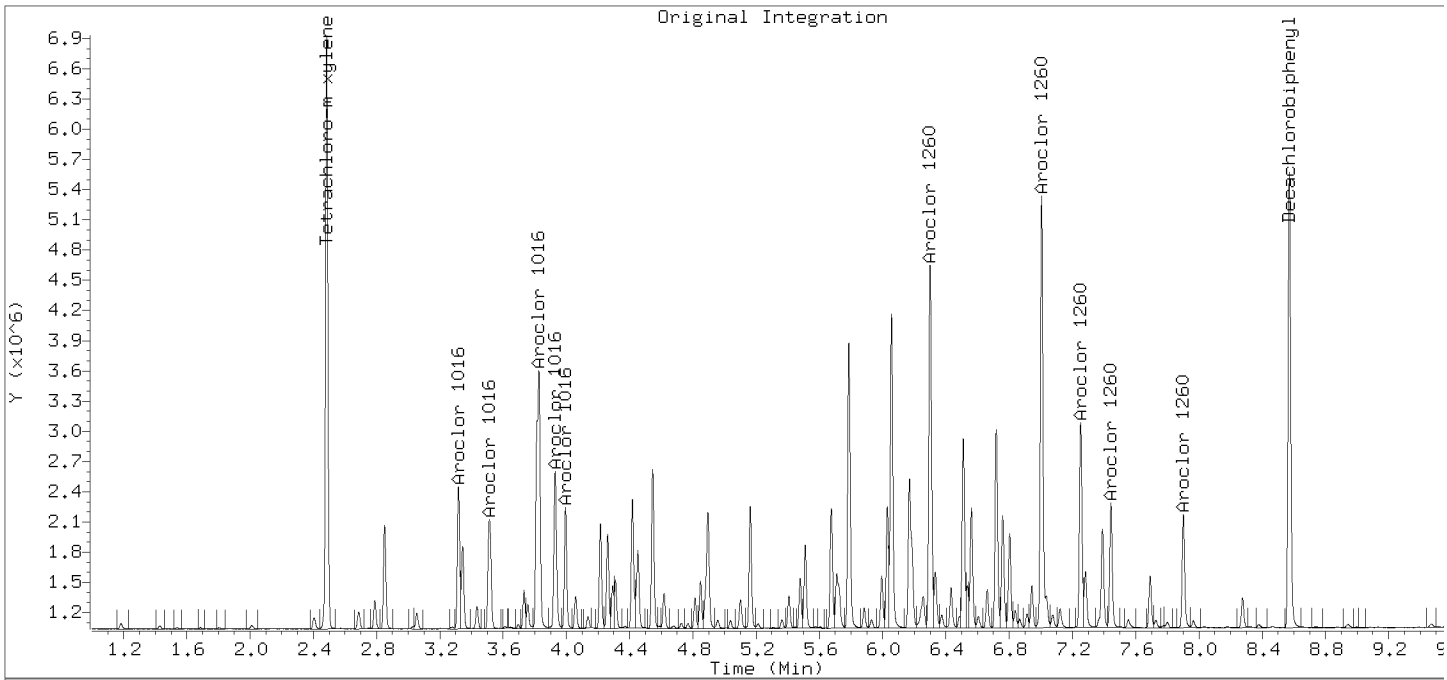
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

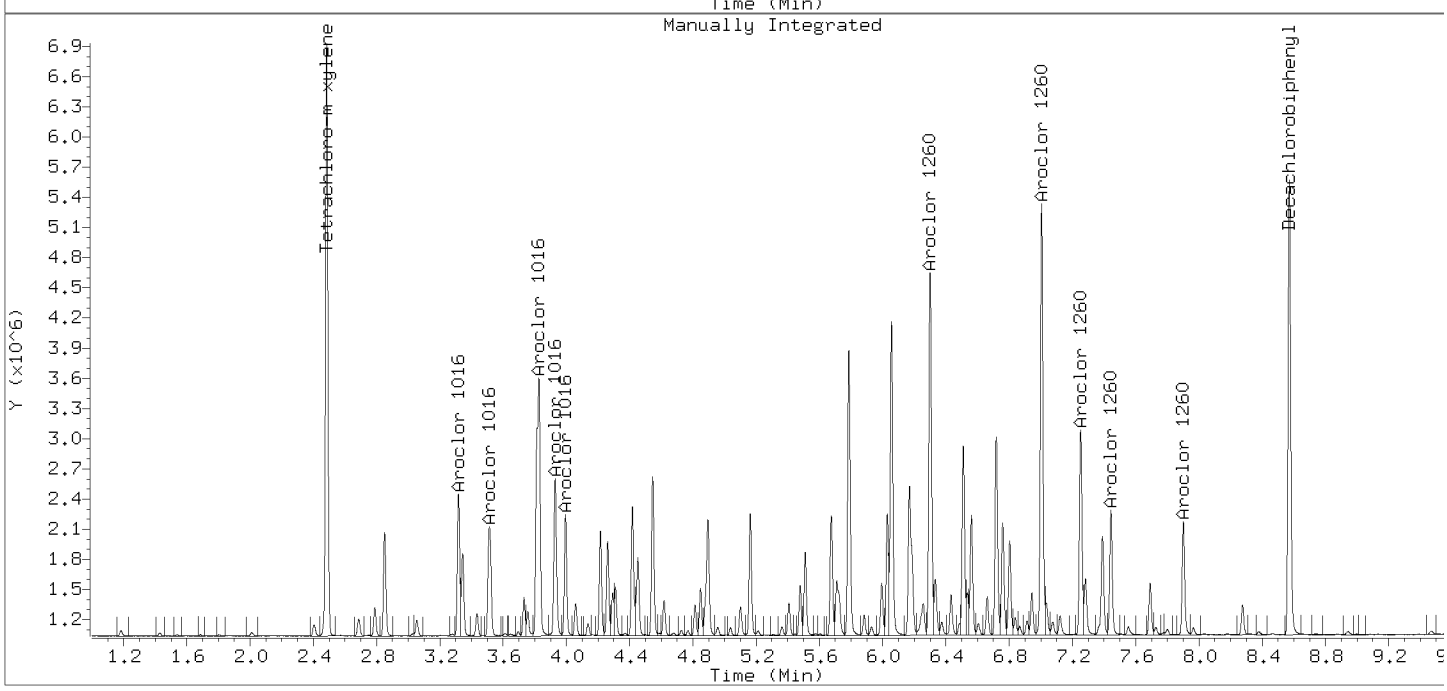
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

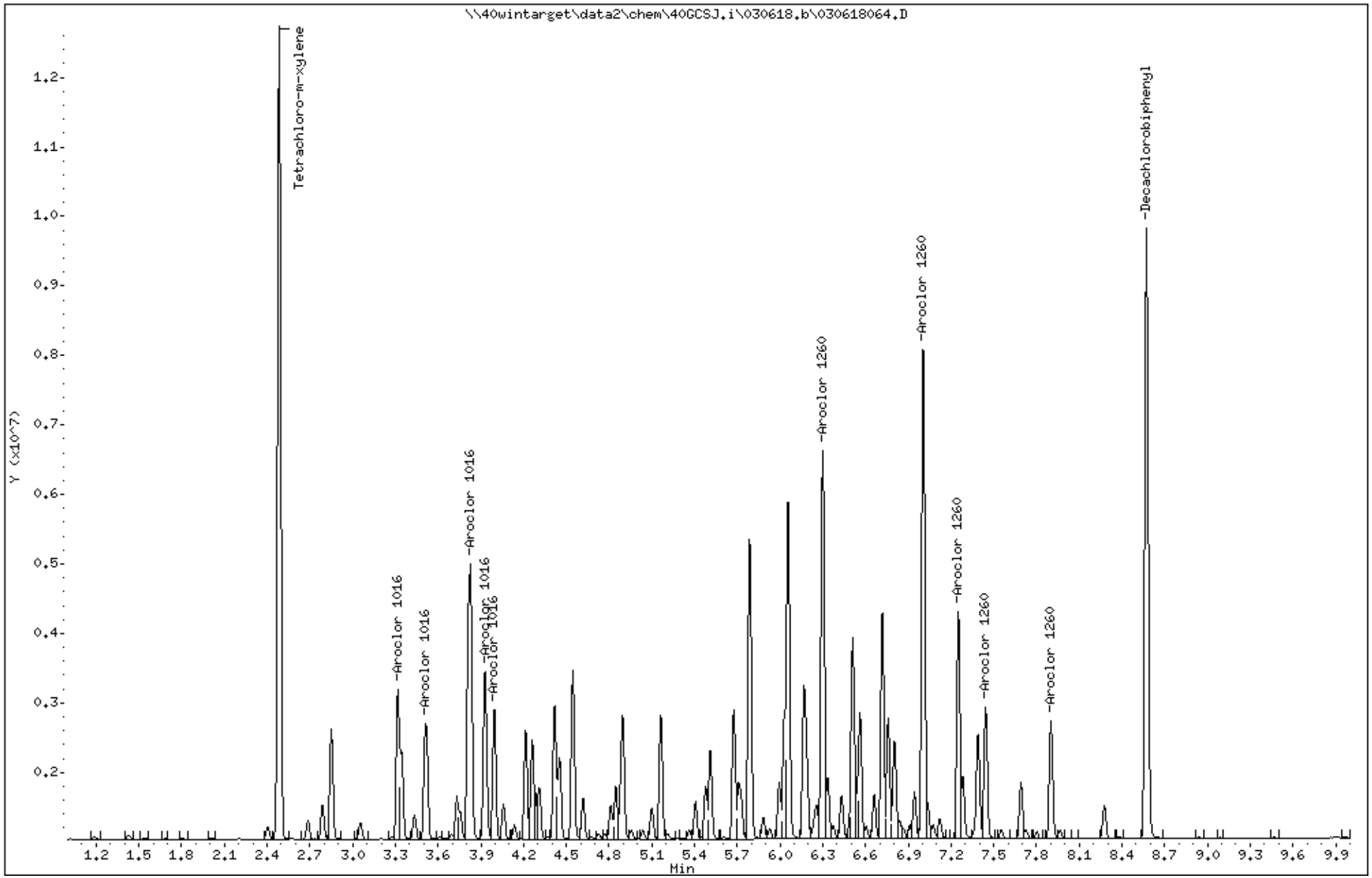
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

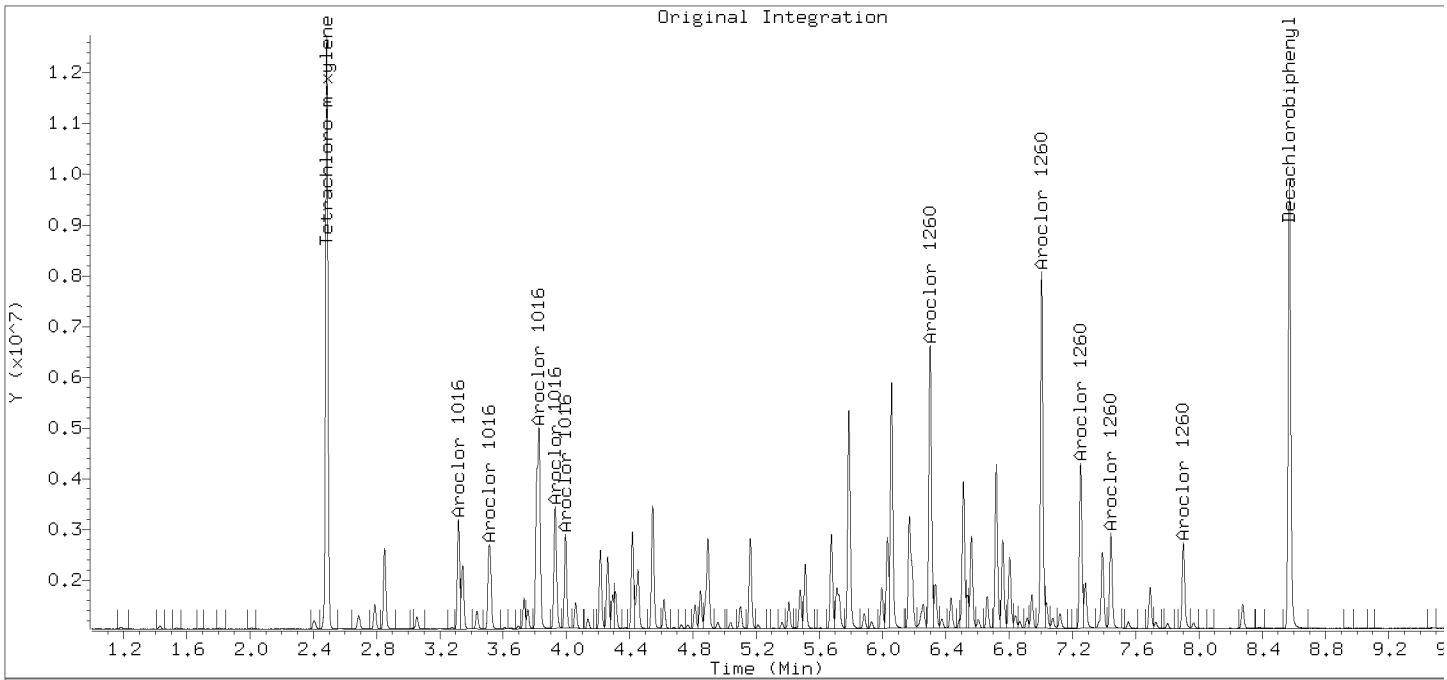
Operator: BLM

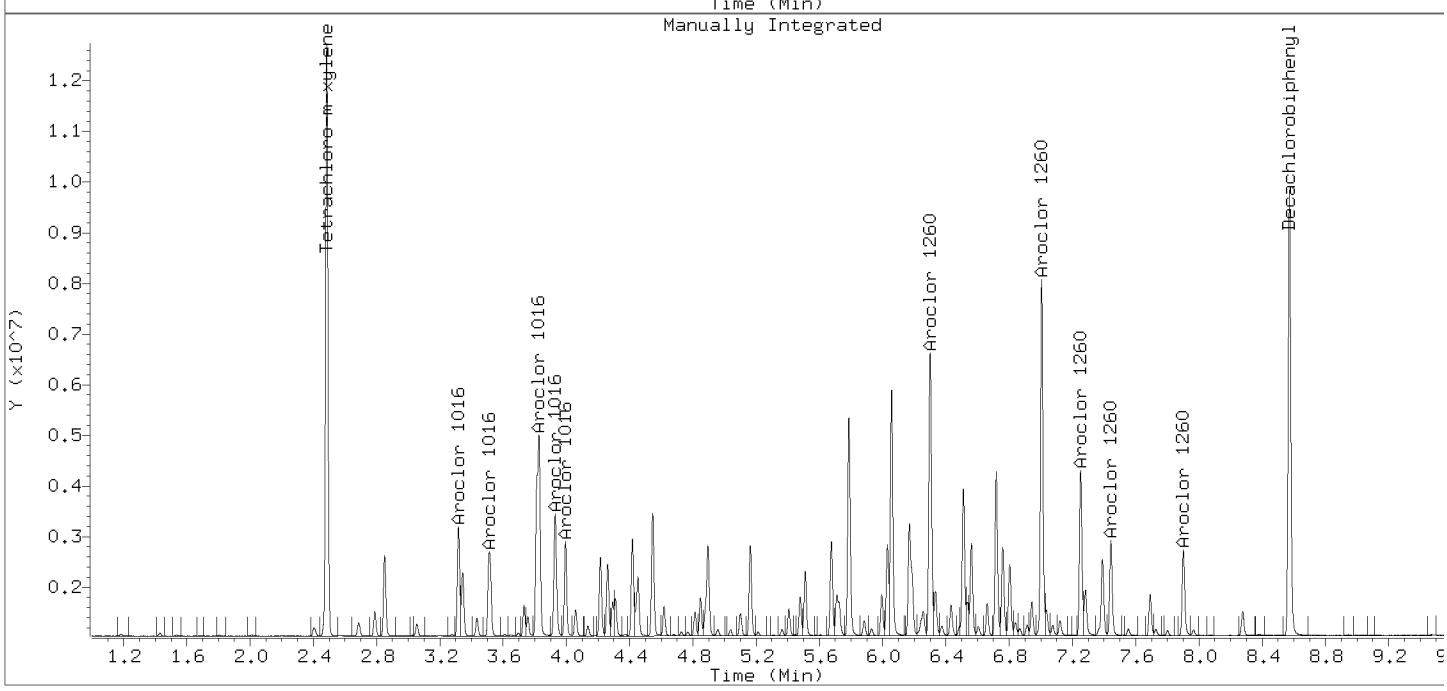
Column phase: ZB-1ms

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	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D Page 3
Report Date: 22-Mar-2018 13:35

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

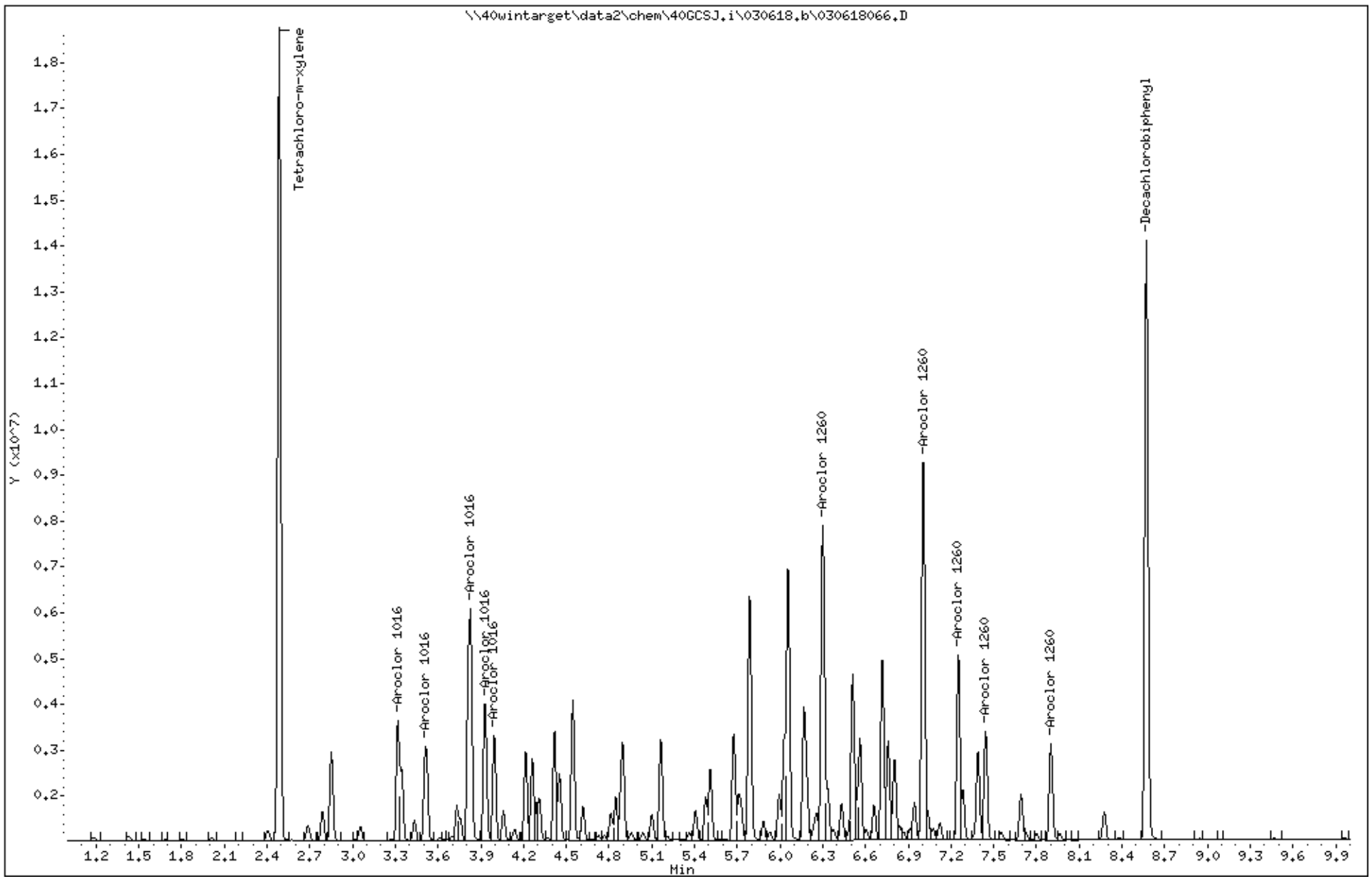
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

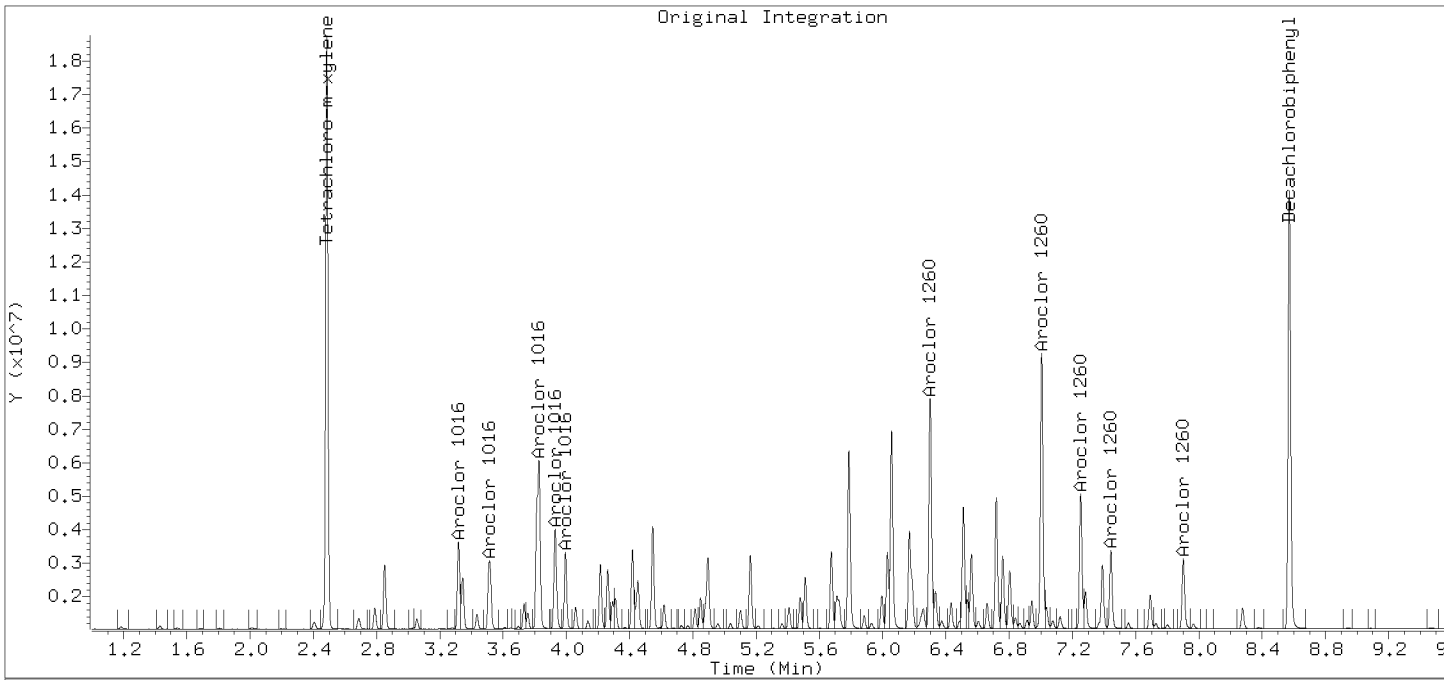
Operator: BLM

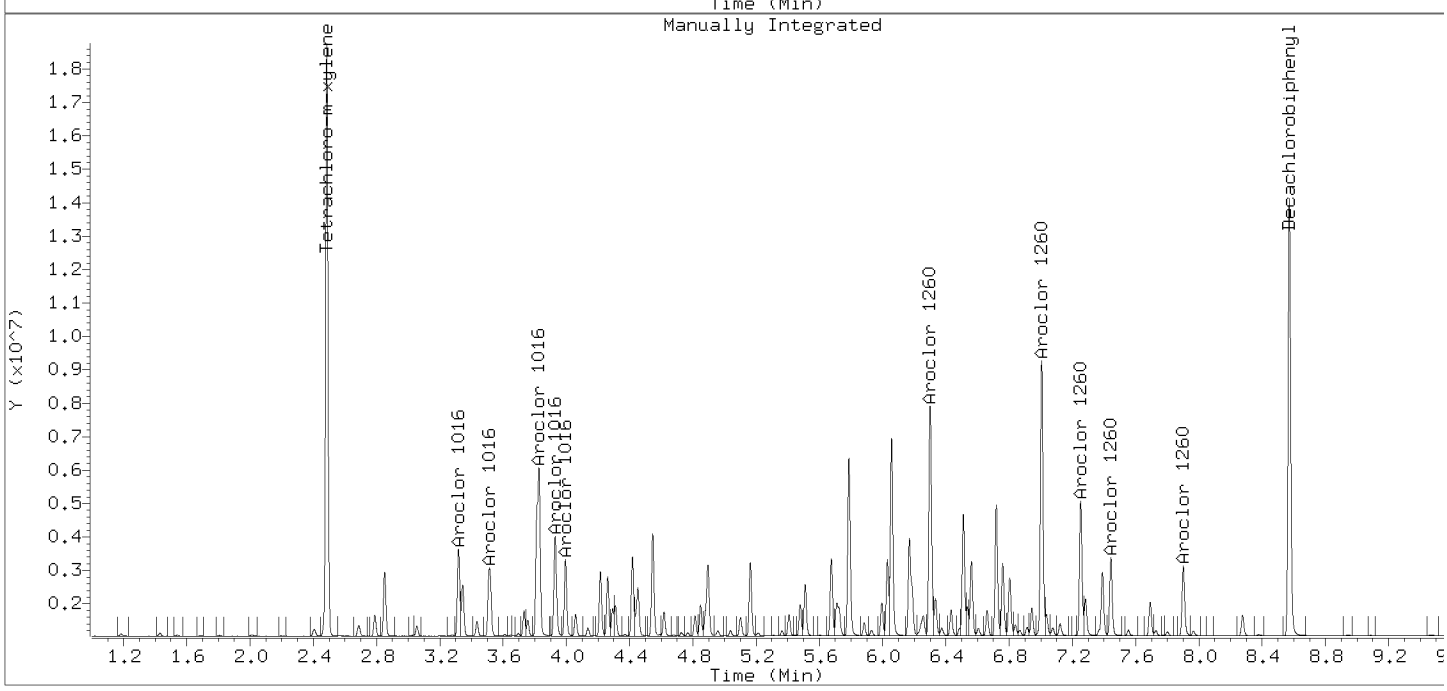
Column phase: ZB-1ms

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.: 40151552

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.: 40151552

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.: 40151552

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.: 40151552

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.: 40151552

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.

10842796CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/14/2018 Time: 13:12

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

Lab File ID: 031418.B\031418004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

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	2510940.00	-0.8787
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2473072.00	-1.8635
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	6921176.00	-2.7441
Aroclor 1242	4	Averaged	3.929	3.895	3.963	3041534.65	2975824.00	-2.1604
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	1971886.00	-3.7046
Decachlorobiphenyl (S)		Averaged	8.572	8.537	8.605	109559990.	101941740.	-6.9535
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	117766700.	-4.4839

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

SAMPLE NO.

10842797CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/14/2018 Time: 16:22

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

Lab File ID: 031418.B\031418016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

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	2400320.00	2.4476
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4188910.00	0.9301
Aroclor 1248	3	Averaged	4.813	4.778	4.846	2030080.20	2112654.00	4.0675
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5172652.00	2.6840
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3700542.00	3.1209
Decachlorobiphenyl (S)		Averaged	8.572	8.537	8.605	109559990.	107145860.	-2.2035
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120659120.	-2.1379

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

SAMPLE NO.

10842799CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/14/2018 Time: 18:45

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

Lab File ID: 031418.B\031418025.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

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	5204698.00	-0.5835
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4348410.00	1.1010
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	7768508.00	0.0315
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	5096960.00	4.6672
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6645918.00	2.1333
Decachlorobiphenyl (S)		Averaged	8.572	8.537	8.605	109559990.	108046740.	-1.3812
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120437160.	-2.3180

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

SAMPLE NO.

10844967CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/21/2018 Time: 13:07

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

Lab File ID: 032118.B\032118004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

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	1019280.00	-2.1106
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	523106.000	-4.5153
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1333874.00	-3.5756
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1056478.00	-4.4577
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3230802.00	-0.7555
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	101771900.	-7.1085
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	118603200.	-3.8054

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

SAMPLE NO.

10844968CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/21/2018 Time: 16:17

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

Lab File ID: 032118.B\032118016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

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	2731186.00	9.2464
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1423694.00	6.2631
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	4136326.00	10.3101
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1766868.00	9.9830
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1170364.00	7.1884
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	109266260.	-0.2681
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121282700.	-1.6322

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

SAMPLE NO.

10844969CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/21/2018 Time: 19:27

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

Lab File ID: 032118.B\032118028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.316	3.284	3.352	2533198.70	2611074.00	3.0742
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2576012.00	2.2213
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7457236.00	4.7886
Aroclor 1242	4	Averaged	3.927	3.895	3.963	3041534.65	3177014.00	4.4543
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2119692.00	3.5134
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	109582240.	0.0203
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	120982580.	-1.8756

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

SAMPLE NO.

10844966CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/21/2018 Time: 21:02

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

Lab File ID: 032118.B\032118034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151552

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	2437500.00	4.0345
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4282964.00	3.1963
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2175100.00	7.1436
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5330438.00	5.8163
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3835198.00	6.8733
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	111056300.	1.3657
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122499440.	-0.6453

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.: 40151552

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.: 40151552

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.

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

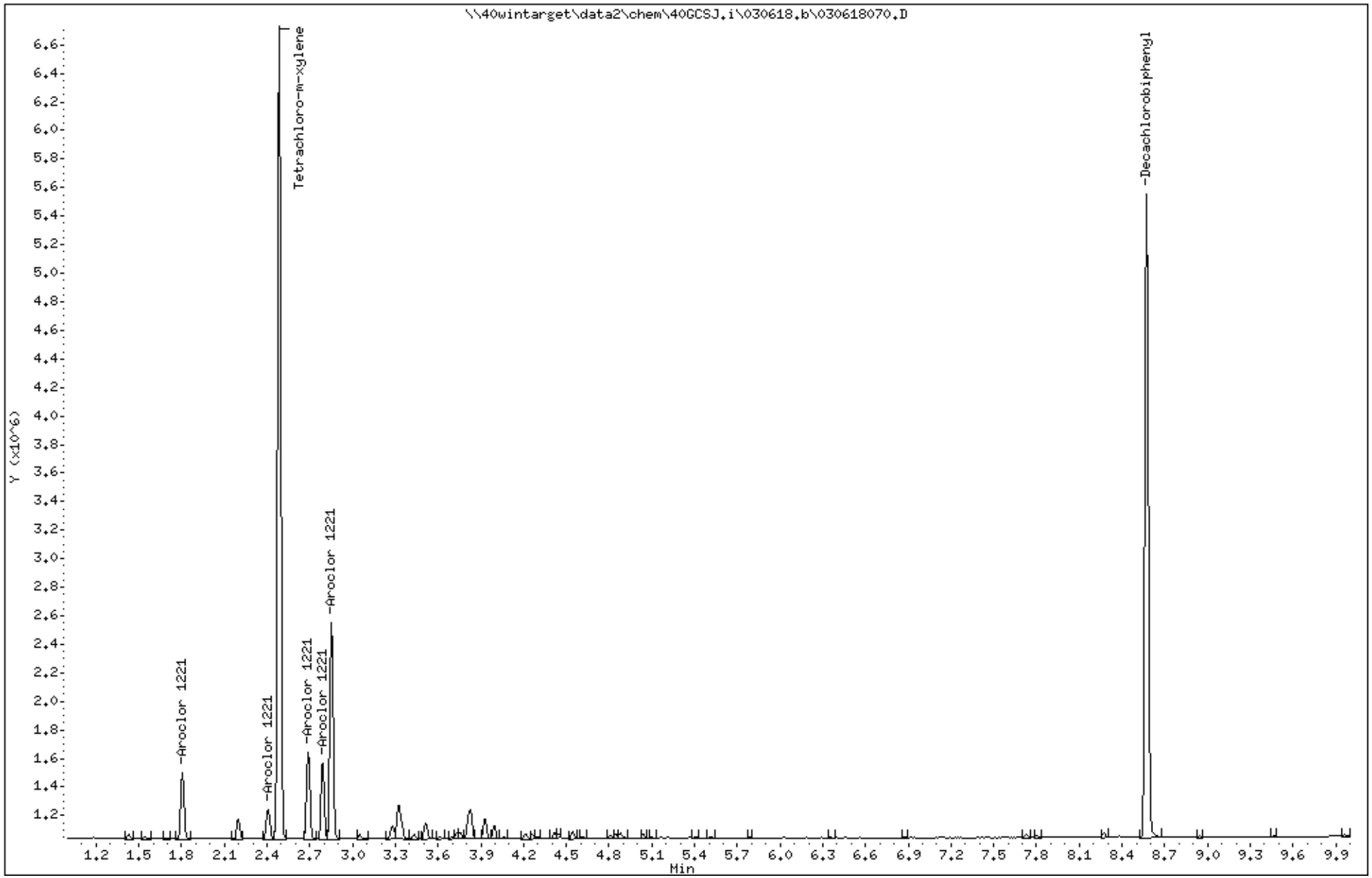
Instrument: 40GCSJ.i

Sample Info: 1221-ICV, 188142:1

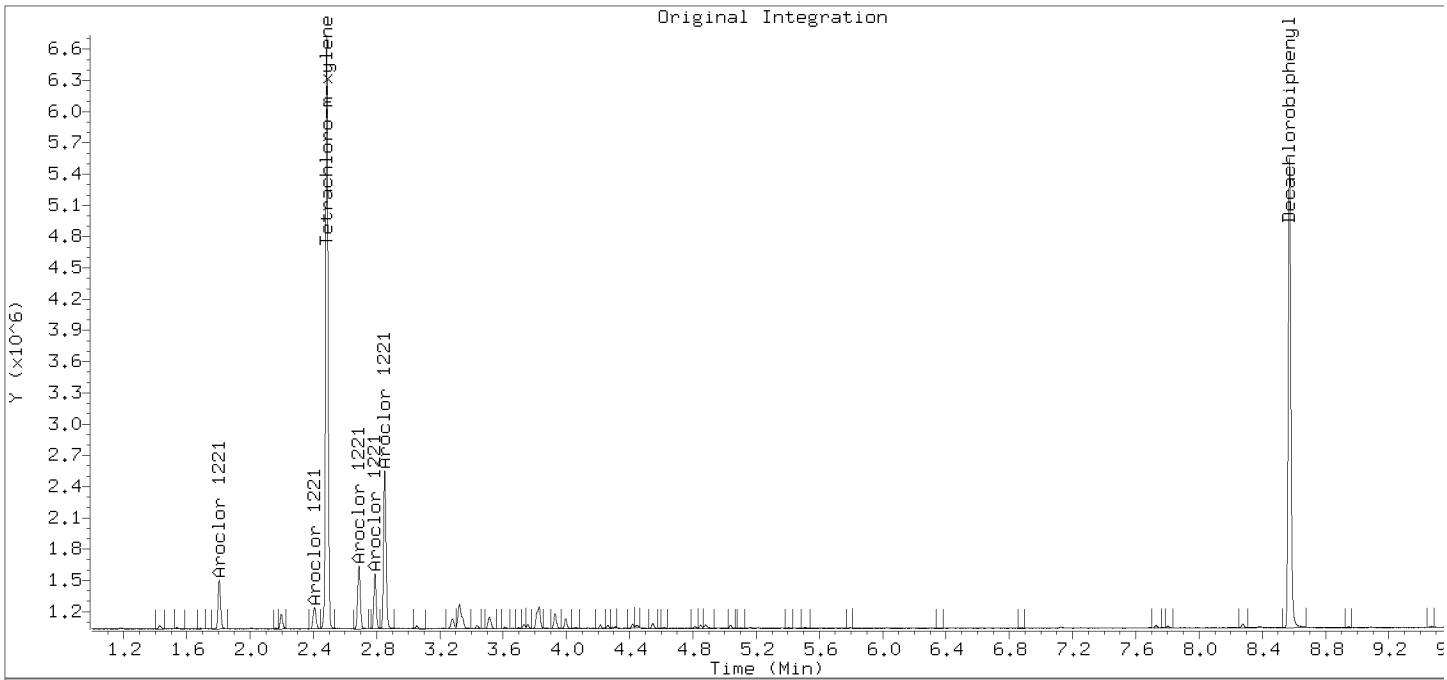
Operator: BLM

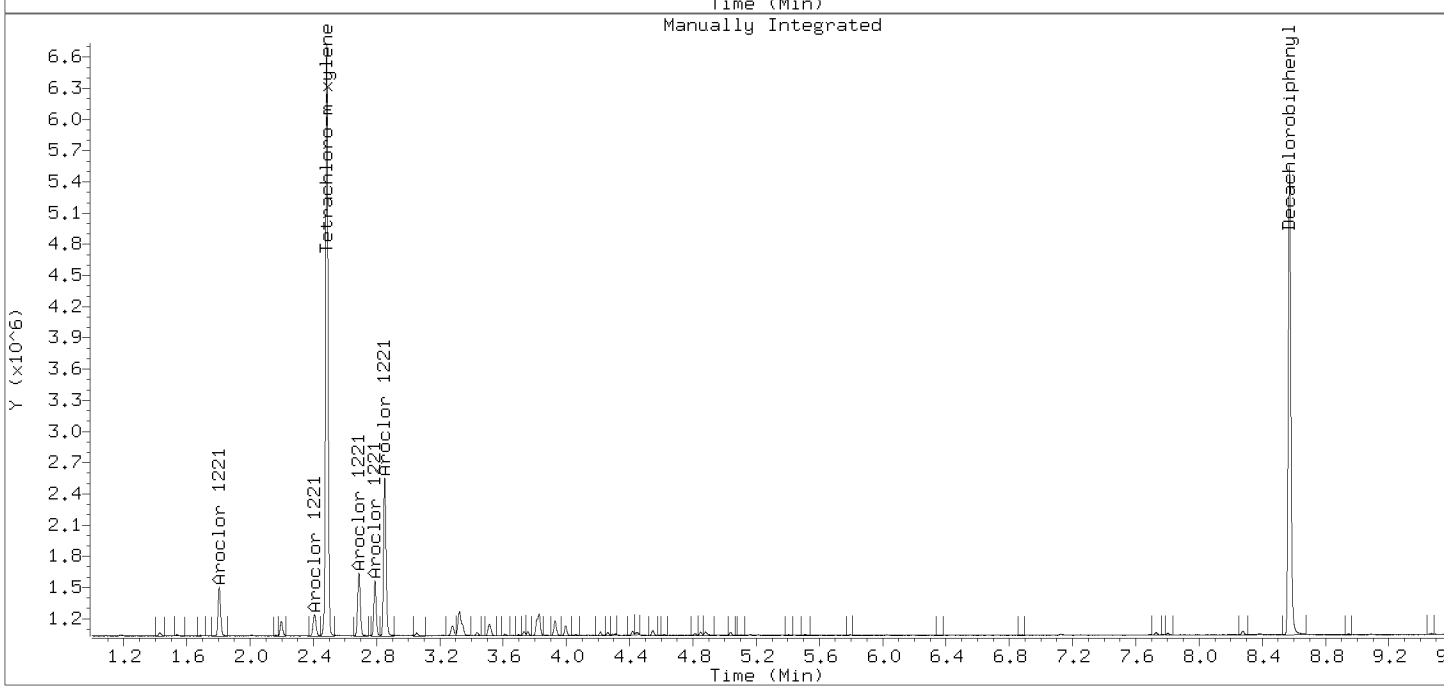
Column phase: ZB-1ms

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.

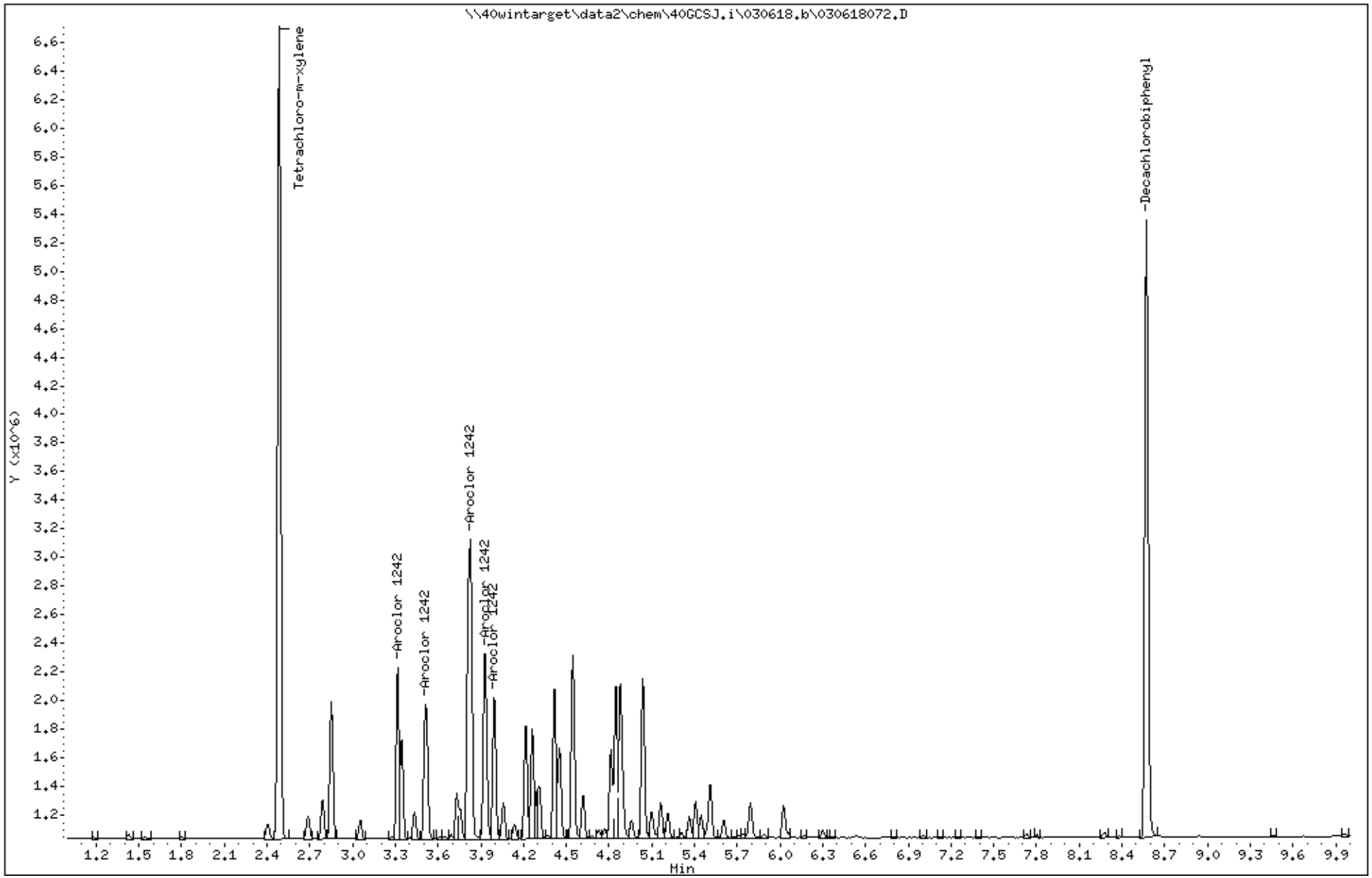
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

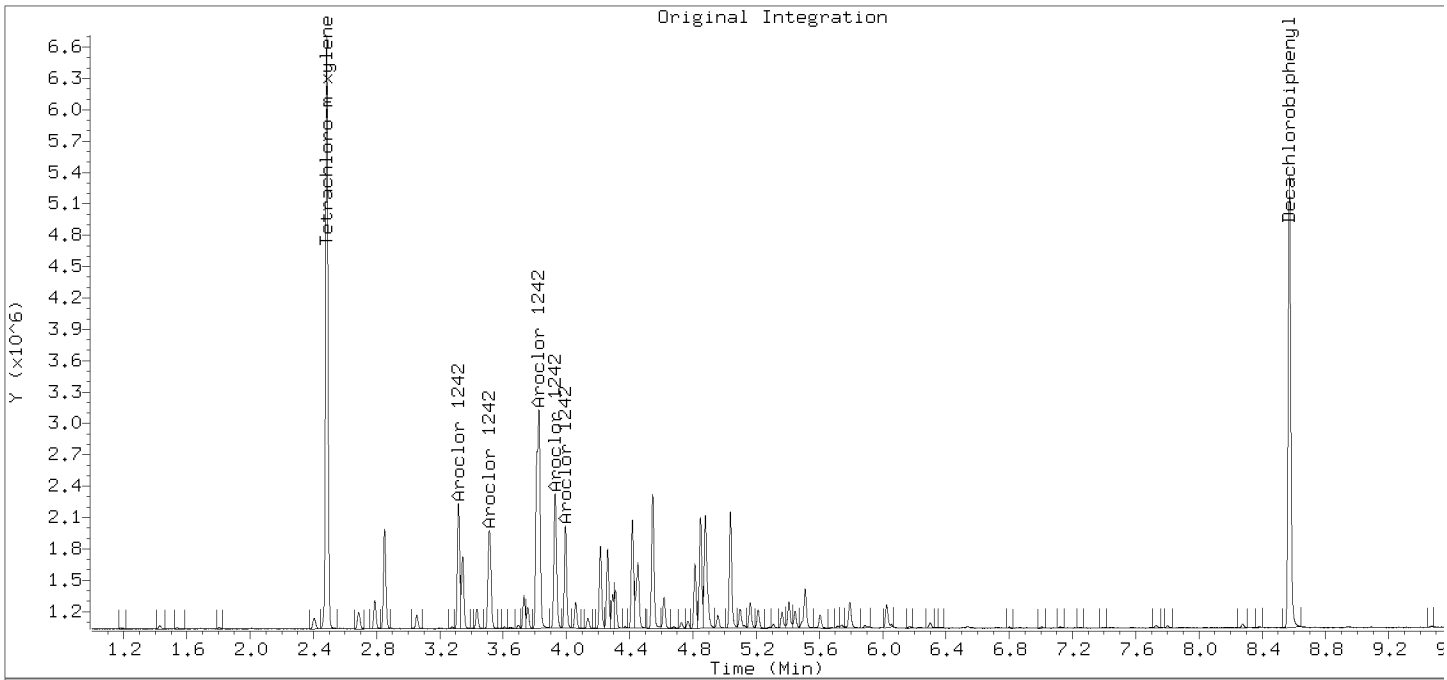
Operator: BLM

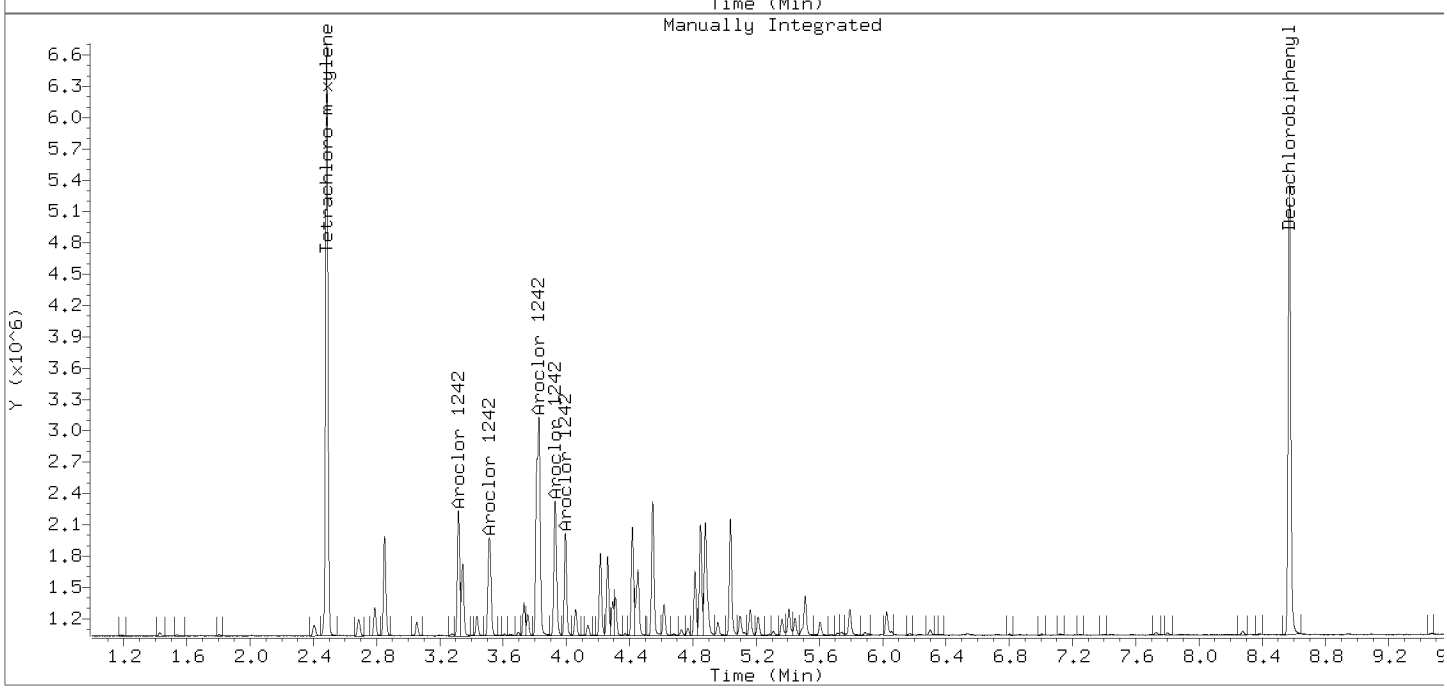
Column phase: ZB-1ms

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

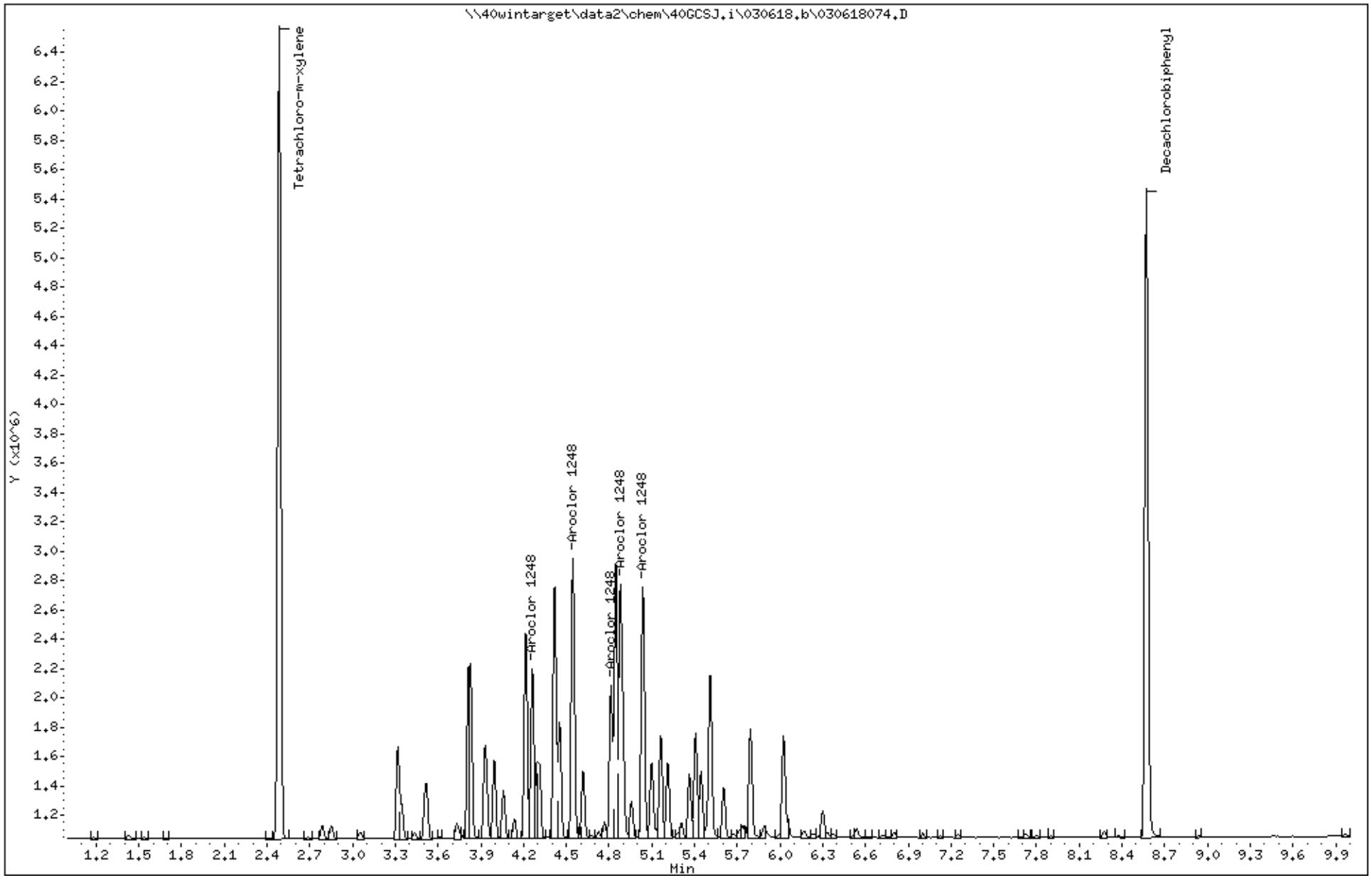
M - Compound response manually integrated.

Review Codes Legend

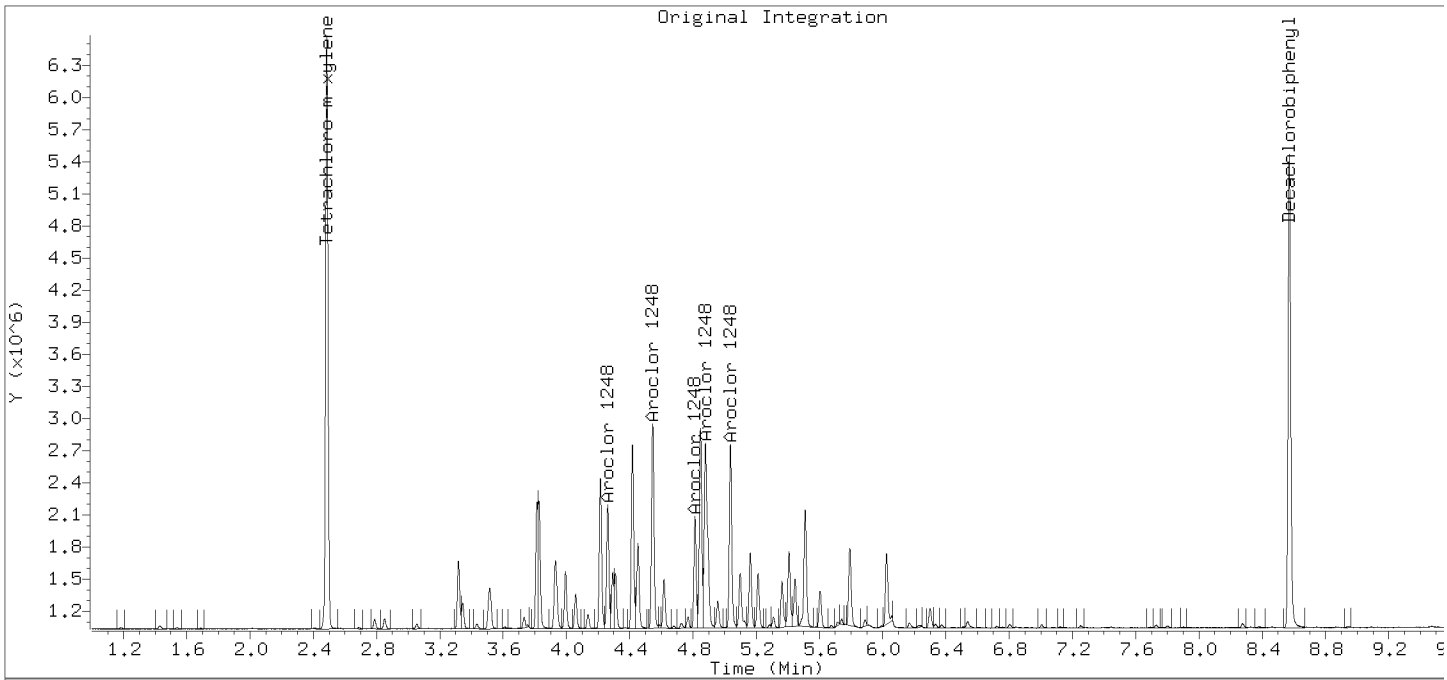
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

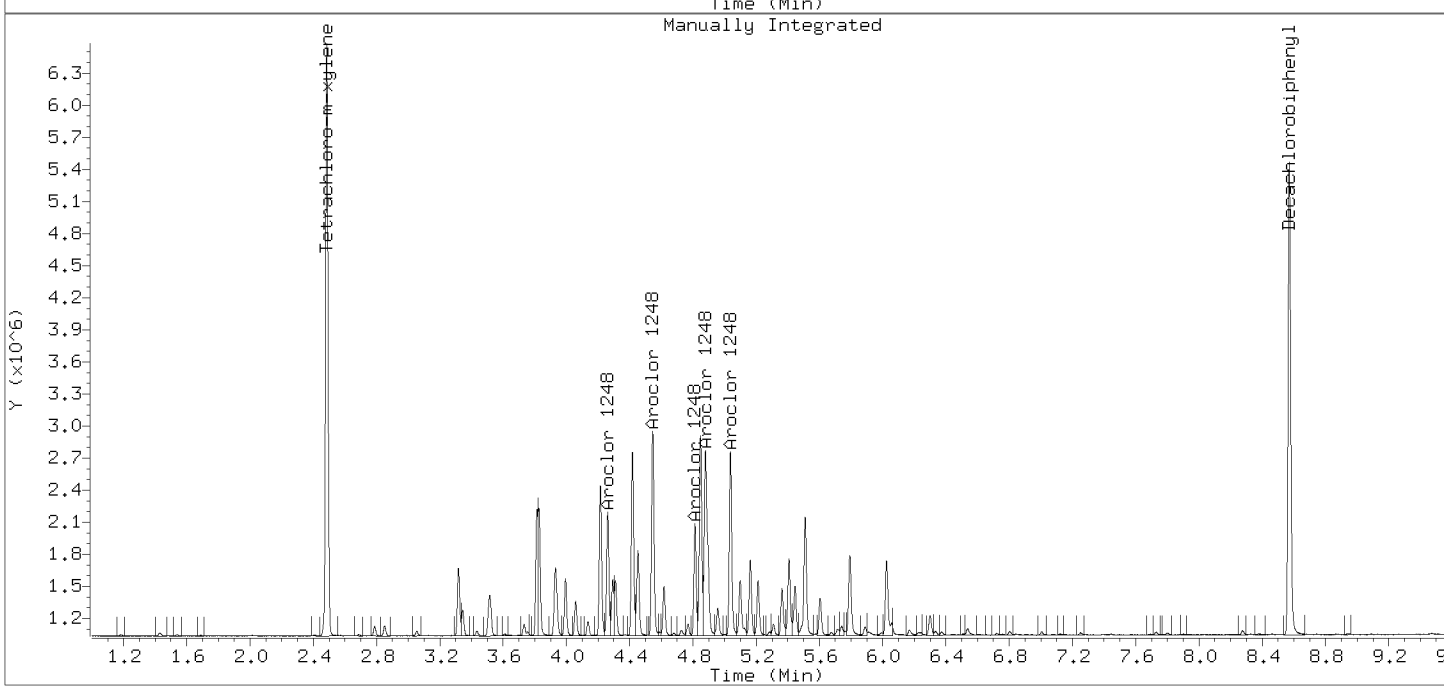
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

Instrument: 40GCSJ.i
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

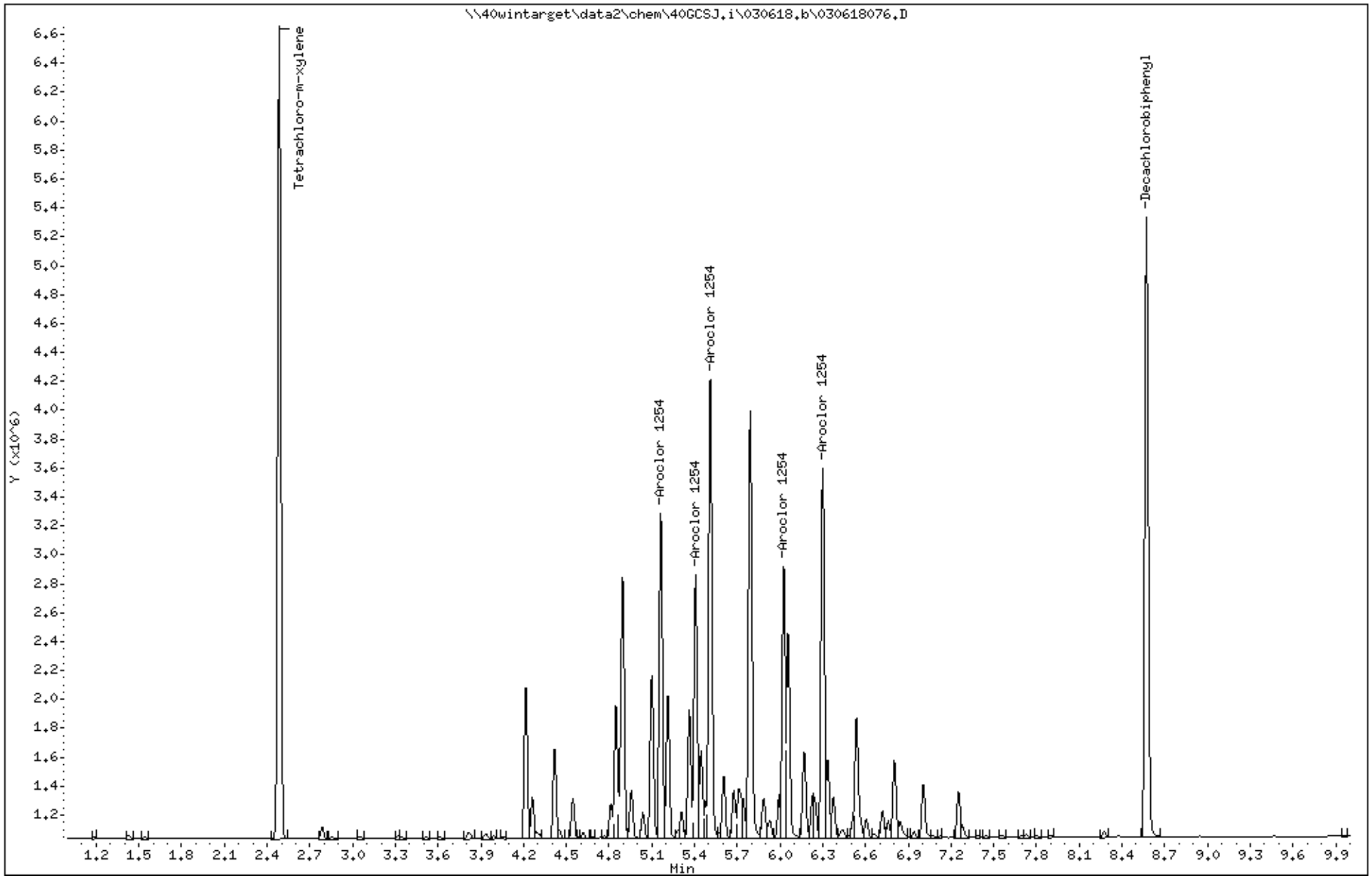
M - Compound response manually integrated.

Review Codes Legend

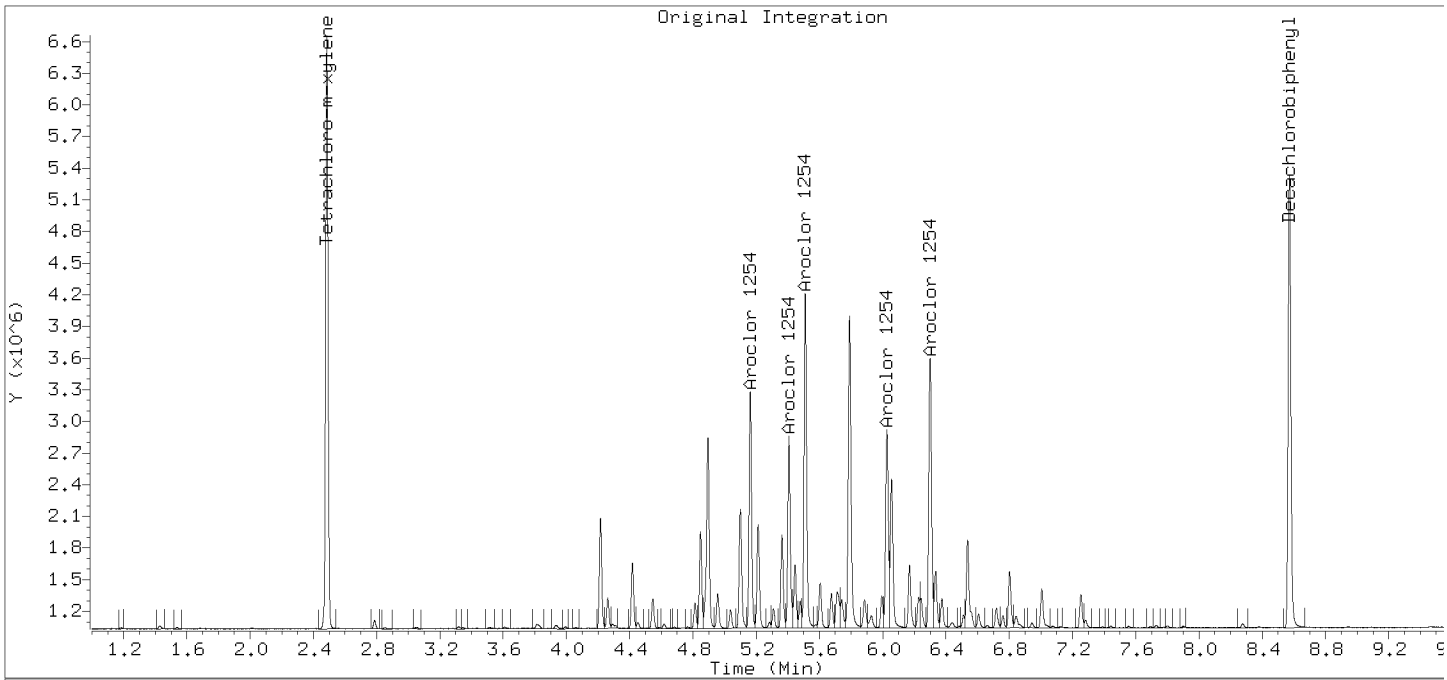
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

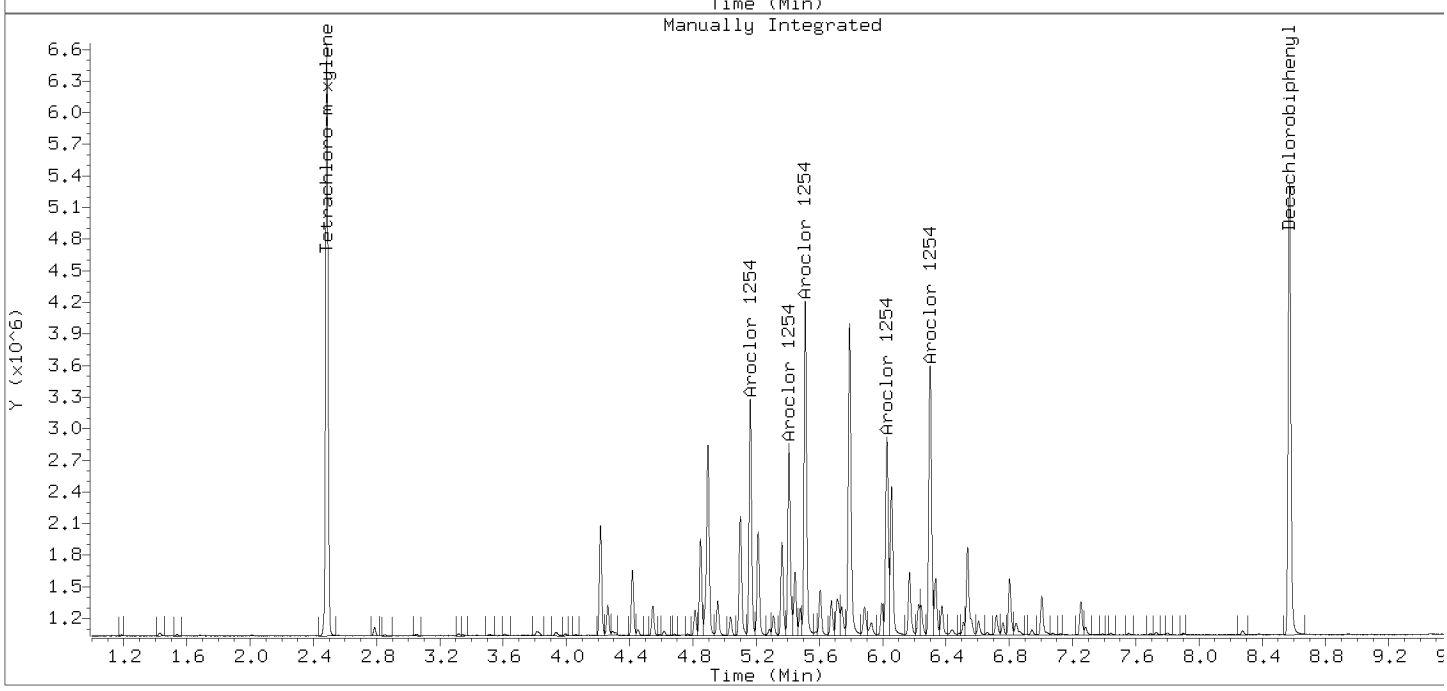
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Date : 06-MAR-2018 21:00
Client ID: 1254-ICV
Sample Info: 1254-ICV, 185564:1

Instrument: 40GCSJ.i
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.

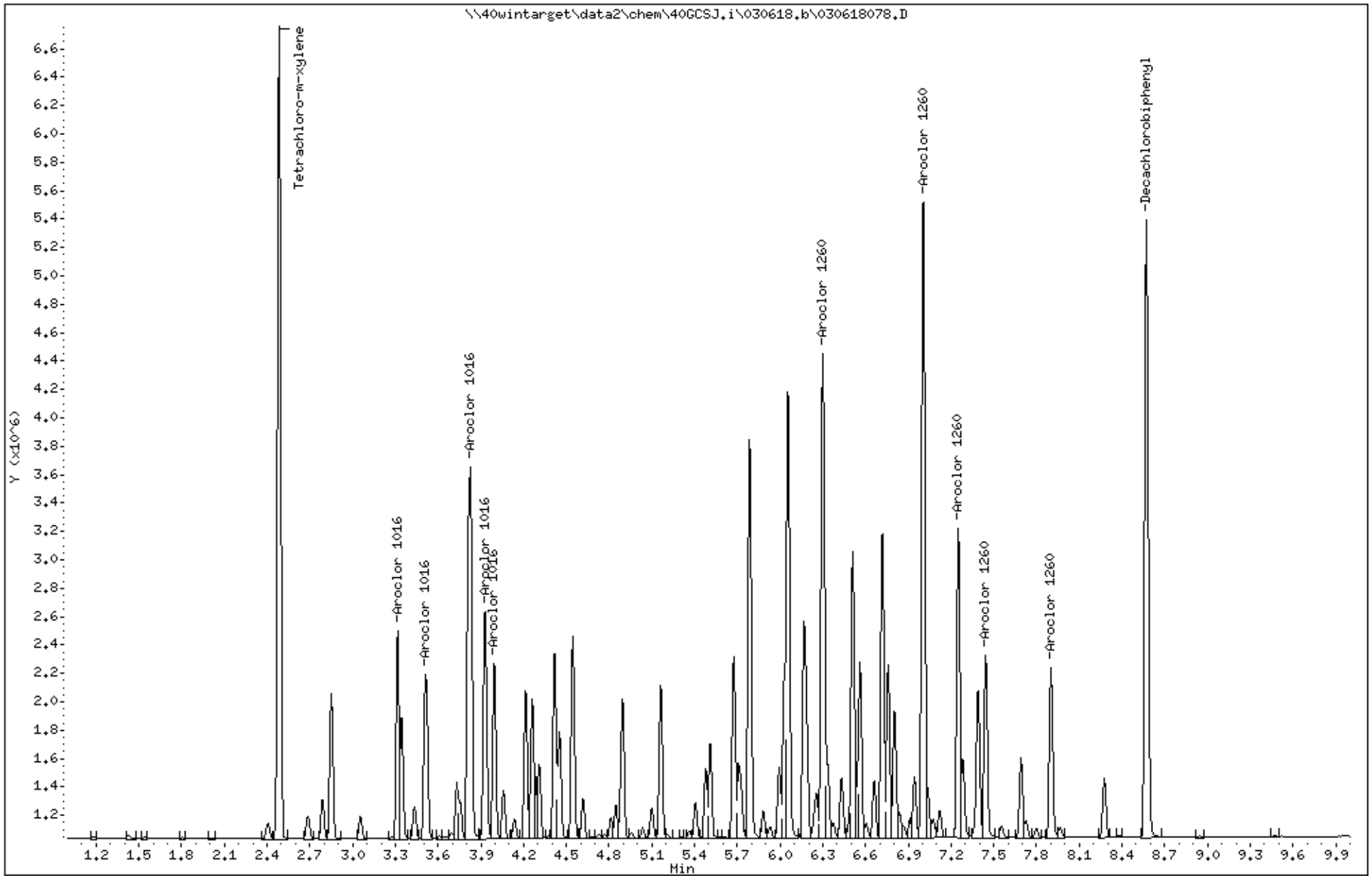
QC Flag Legend

Review Codes Legend

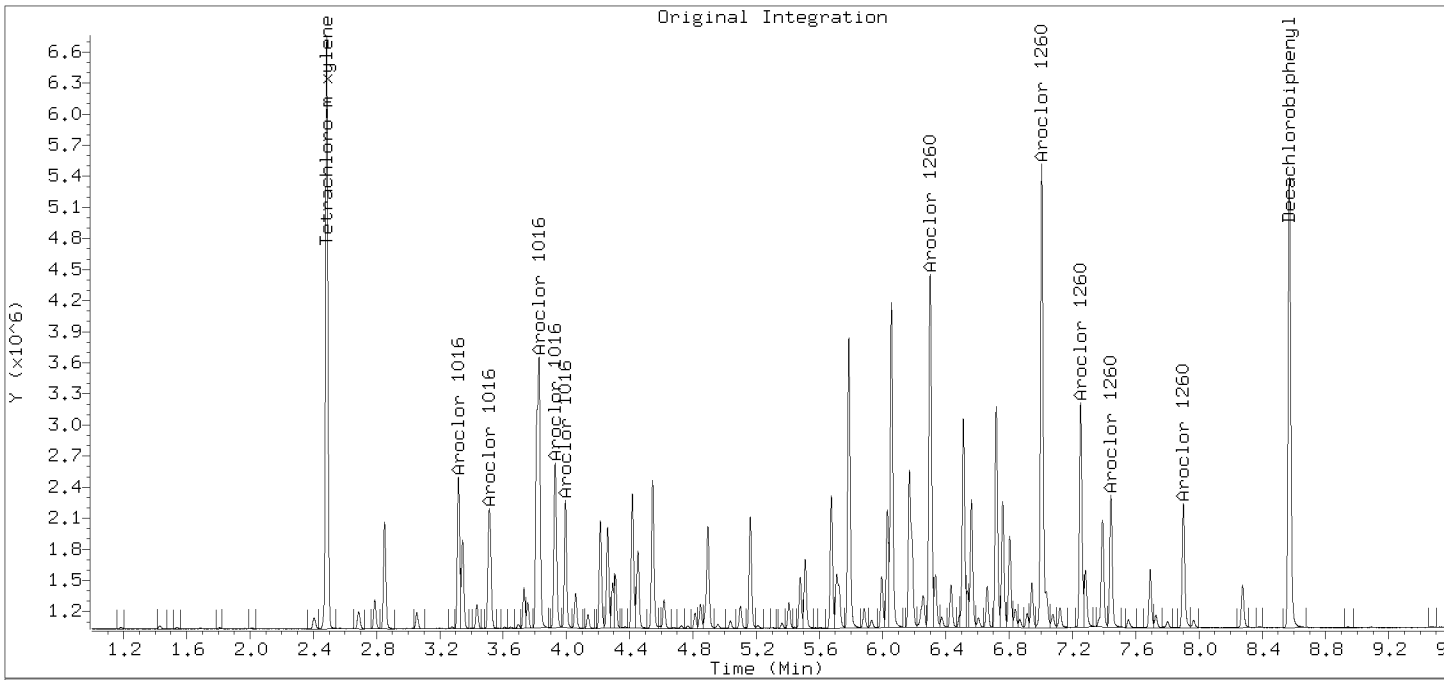
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

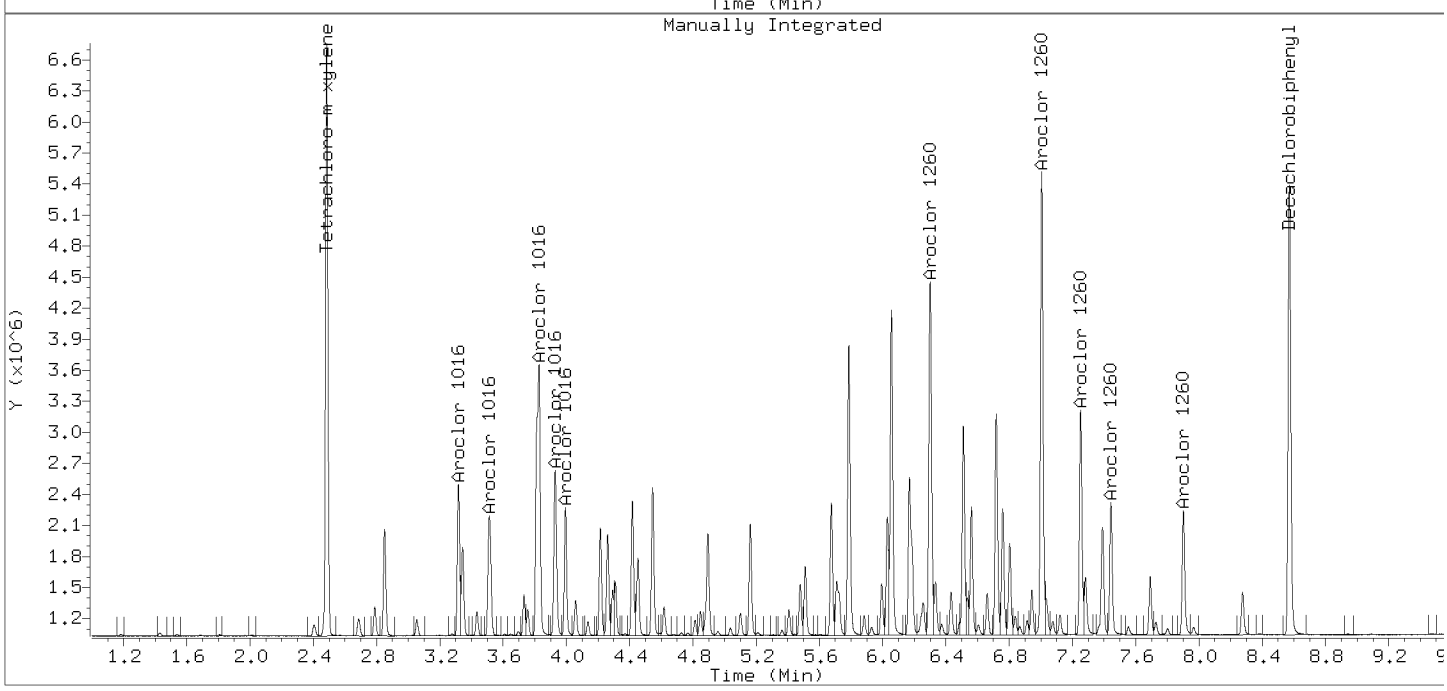
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\031418.b\031418004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 14-MAR-2018 13:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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
1.182	22076	17935	0.812	0.05		
1.430	39238	30892	0.787	0.10		
1.541	19164	13983	0.730	0.05		
1.685	16120	10882	0.675	0.04		
1.806	16509	13973	0.846	0.04		
2.009	17580	12745	0.725	0.04		
2.405	115981	91487	0.789	0.30		
2.485	5888335	5613246	0.953	15.88	$ 2 Tetrachloro-m-xylene	
2.687	171095	140396	0.821	0.44		
2.789	260946	244164	0.936	0.68		
2.851	909776	851980	0.936	2.38		
3.055	137084	129521	0.945	0.36		
3.279	22074	16599	0.752	0.05		
3.318	1255470	1168373	0.931	3.29	3 Aroclor 1242	BA
3.344	702067	669480	0.954	1.84		
3.435	197936	180141	0.910	0.51		
3.514	1236536	900390	0.728	3.24	3 Aroclor 1242	BA
3.609	18910	16358	0.865	0.04		
3.695	38171	33394	0.875	0.10		
3.733	310197	314001	1.012	0.81		
3.756	205378	191849	0.934	0.53		
3.827	3460588	2056369	0.594	9.09	3 Aroclor 1242	BA
3.930	1487913	1260705	0.847	3.90	3 Aroclor 1242	BA
3.994	985943	960466	0.974	2.58	3 Aroclor 1242	BA
4.059	296137	272644	0.921	0.77		
4.137	117009	105726	0.904	0.30		
4.215	835166	816313	0.977	2.19		
4.261	804392	773226	0.961	2.11		
4.293	310468	338069	1.089	0.81		
4.310	430859	390008	0.905	1.13		
4.371	29754	19790	0.665	0.07		
4.418	1104858	1056191	0.956	2.90		
4.452	840769	631429	0.751	2.20		
4.546	1420053	1329669	0.936	3.73		
4.592	19452	19420	0.998	0.05		
4.617	326036	304299	0.933	0.85		
4.678	26145	19683	0.753	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	68612	60112	0.876	0.18	
4.769	81072	73992	0.913	0.21	
4.814	657026	631706	0.961	1.72	
4.848	1121735	1105088	0.985	2.94	
4.879	1445784	1073292	0.742	3.79	
4.960	162404	131137	0.807	0.42	
5.037	1182939	1100605	0.930	3.10	
5.100	264233	208210	0.788	0.69	
5.163	303561	268294	0.884	0.79	
5.212	233196	207188	0.888	0.61	
5.285	18911	19607	1.037	0.04	
5.311	53463	44553	0.833	0.14	
5.364	200175	170063	0.850	0.52	
5.407	325034	280038	0.862	0.85	
5.446	218342	180420	0.826	0.57	
5.511	529005	409685	0.774	1.38	
5.604	161355	137557	0.853	0.42	
5.718	37481	28404	0.758	0.09	
5.740	45007	38765	0.861	0.11	
5.793	359972	305266	0.848	0.94	
5.889	60748	35982	0.592	0.15	
6.024	349104	269609	0.772	0.91	
6.172	23208	22123	0.953	0.06	
6.299	101788	88029	0.865	0.26	
6.331	25182	19687	0.782	0.06	
6.375	17173	16197	0.943	0.04	
6.536	34760	31749	0.913	0.09	
6.608	14704	8524	0.580	0.03	
6.801	23516	21659	0.921	0.06	
7.247	13141	9241	0.703	0.03	
7.730	25515	23370	0.916	0.06	
7.801	16274	14505	0.891	0.04	
8.277	49081	39467	0.804	0.12	
8.375	13242	10800	0.816	0.03	
8.572	5097087	4226833	0.829	13.38	$ 12 Decachlorobiphenyl
8.943	15637	12998	0.831	0.04	
9.469	14777	10007	0.677	0.03	
9.877	607033	91945	0.151	1.59	
	38067466	32442503		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 14-MAR-2018 13:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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	5888335	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1255470	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1236536	0.50000	0.49	0.00- 20.00	98.49	BA
3.826	3.827	-0.001	3460588	0.50000	0.49	0.00- 20.00	275.64	BA
3.929	3.929	0.000	1487912	0.50000	0.49	0.00- 20.00	118.51	BA
3.993	3.995	-0.002	985943	0.50000	0.48	0.00- 20.00	78.53	BA
Average of Peak Amounts =					0.49000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.572	8.571	0.001	5097087	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.

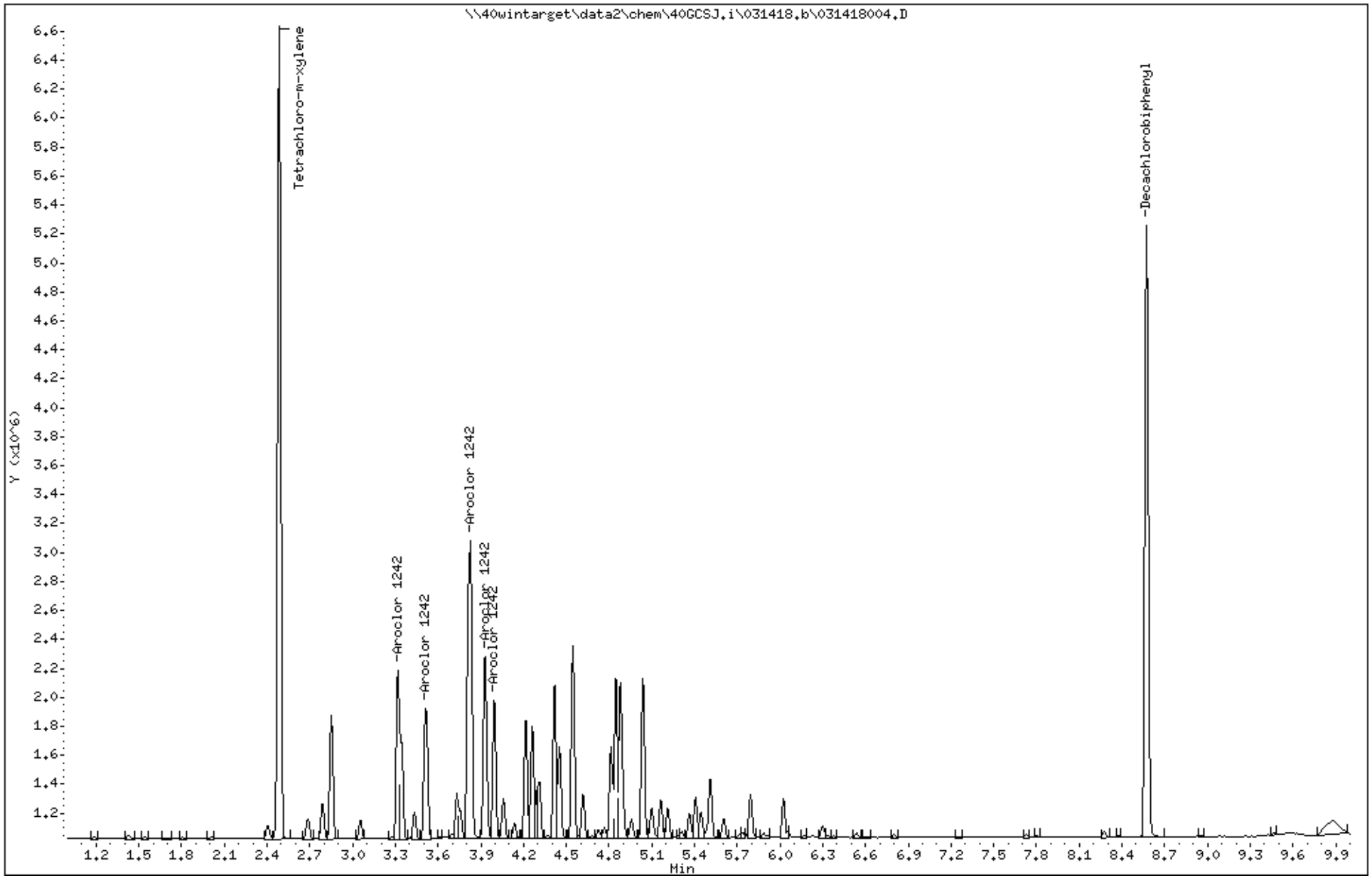
Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418004.D
Date : 14-MAR-2018 13:12
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

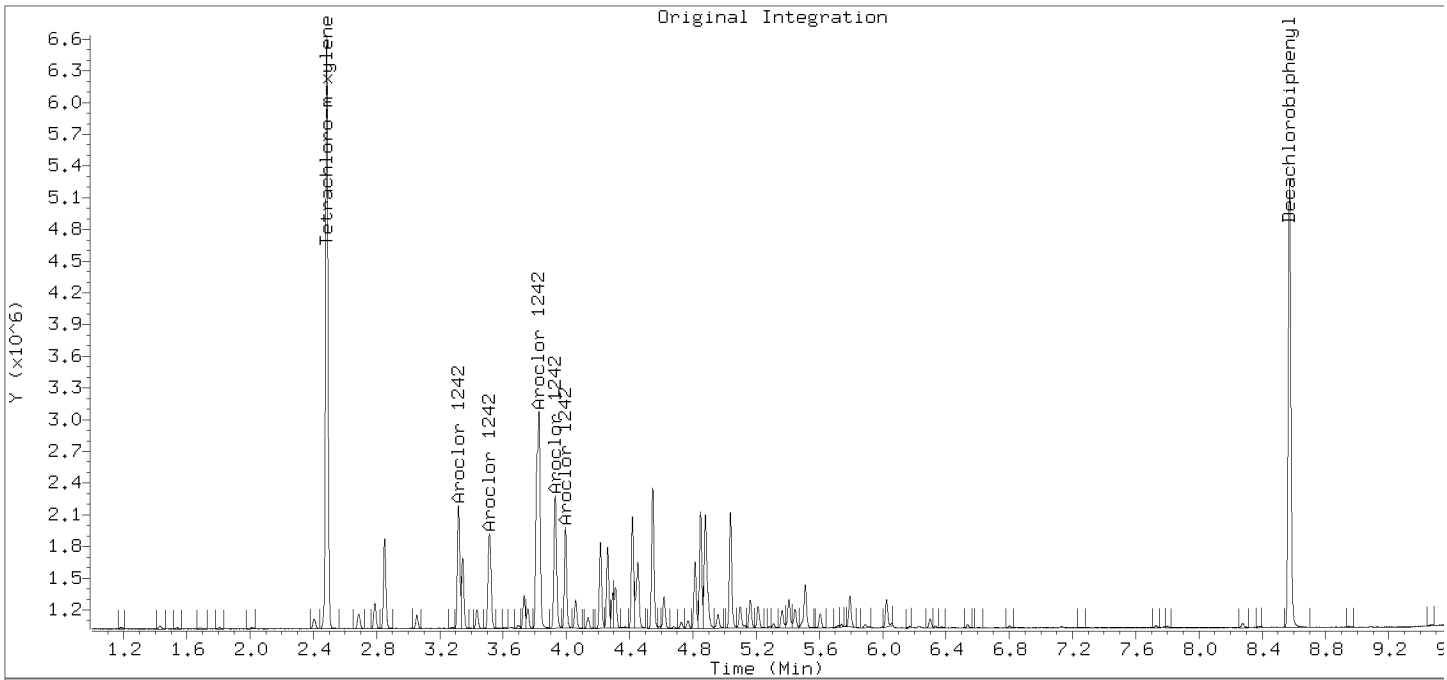
Operator: BLM

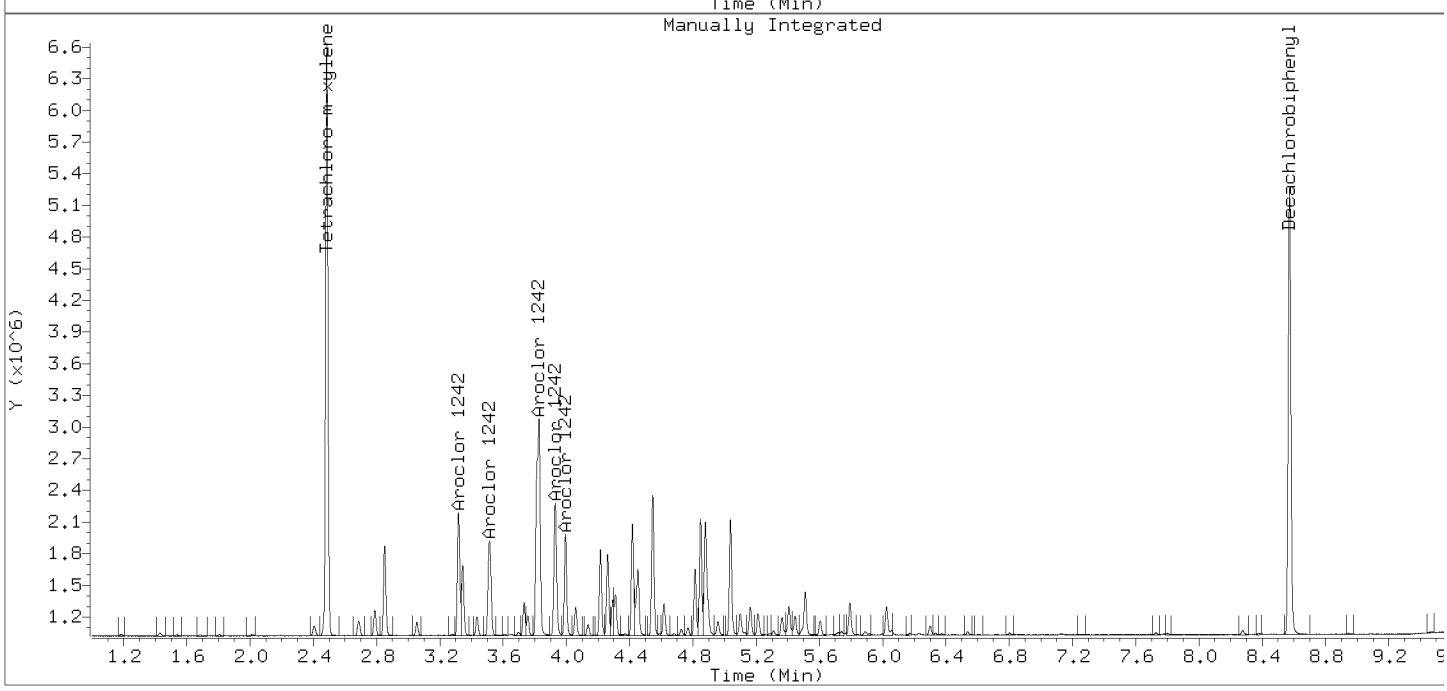
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418004.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 14-MAR-2018 13:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1248314	1255470	BA
Aroclor 1242	1248314	1255470	BA
Aroclor 1242	1248314	1255470	BA
Aroclor 1242	1248314	1255470	BA
Aroclor 1242	1248314	1255470	BA
Tetrachloro-m-xylene	5888335	5888335	
Decachlorobiphenyl	5097087	5097087	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 14-MAR-2018 16:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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	18627	13256	0.712	0.04		
1.428	36768	32675	0.889	0.08		
1.534	14066	14342	1.020	0.03		
1.686	13130	13208	1.006	0.02		
2.011	10133	9076	0.896	0.02		
2.405	27213	17737	0.652	0.06		
2.484	6032956	5829574	0.966	13.98	$ 2 Tetrachloro-m-xylene	
2.687	34908	26724	0.766	0.07		
2.788	119717	111094	0.928	0.26		
2.850	195041	177689	0.911	0.43		
3.054	64449	55436	0.860	0.14		
3.317	718105	686764	0.956	1.61		
3.345	299217	285038	0.953	0.67		
3.433	72953	60617	0.831	0.16		
3.516	603279	437537	0.725	1.35		
3.611	17289	18206	1.053	0.03		
3.732	136608	137299	1.005	0.30		
3.757	57934	57809	0.998	0.13		
3.815	1057961	1244674	1.176	2.37		
3.826	1355215	1290034	0.952	3.04		
3.931	912472	714020	0.783	2.04		
3.994	602488	593646	0.985	1.35		
4.059	344628	324565	0.942	0.77		
4.135	146530	131406	0.897	0.32		
4.214	1499401	1400578	0.934	3.36		
4.262	1200161	1137794	0.948	2.69	6 Aroclor 1248	BA
4.292	493781	506105	1.025	1.10		
4.310	521623	495104	0.949	1.17		
4.417	1835807	1730766	0.943	4.12		
4.453	902046	773821	0.858	2.02		
4.545	2094456	1955584	0.934	4.70	6 Aroclor 1248	BA
4.590	29033	31907	1.099	0.06		
4.617	483093	462687	0.958	1.08		
4.680	26626	21385	0.803	0.05		
4.727	64575	50218	0.778	0.14		
4.768	110472	109009	0.987	0.24		
4.813	1056328	1019316	0.965	2.37	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.848	2008478	1926373	0.959	4.50	
4.879	2586326	1744443	0.674	5.80	6 Aroclor 1248
4.957	302271	250896	0.830	0.67	
5.037	1850271	1791747	0.968	4.15	6 Aroclor 1248
5.099	648459	513391	0.792	1.45	
5.163	779707	705528	0.905	1.75	
5.212	552822	504757	0.913	1.24	
5.285	38549	36530	0.948	0.08	
5.309	123207	108433	0.880	0.27	
5.363	497849	437511	0.879	1.11	
5.406	821310	728844	0.887	1.84	
5.446	510589	462807	0.906	1.14	
5.511	1374644	1178494	0.857	3.08	
5.604	389101	353439	0.908	0.87	
5.673	47947	39201	0.818	0.10	
5.717	81548	63494	0.779	0.18	
5.740	103264	90439	0.876	0.23	
5.764	29666	41638	1.404	0.06	
5.792	942978	767008	0.813	2.11	
5.890	127991	82458	0.644	0.28	
5.994	29893	29133	0.975	0.06	
6.024	799758	717924	0.898	1.79	
6.057	155771	128120	0.822	0.34	
6.169	86517	55456	0.641	0.19	
6.227	52978	30864	0.583	0.11	
6.300	242370	208493	0.860	0.54	
6.335	45347	39677	0.875	0.10	
6.374	35107	30664	0.873	0.07	
6.510	40730	38512	0.946	0.09	
6.536	98531	71340	0.724	0.22	
6.603	17977	11312	0.629	0.04	
6.662	10230	9472	0.926	0.02	
6.720	43466	37297	0.858	0.09	
6.759	22376	19324	0.864	0.05	
6.804	47588	41152	0.865	0.10	
6.840	20806	15662	0.753	0.04	
7.005	80748	65198	0.807	0.18	
7.120	10187	10010	0.983	0.02	
7.253	32716	26820	0.820	0.07	
7.281	9398	8624	0.918	0.02	
7.390	31404	28309	0.901	0.07	
7.446	39542	30627	0.775	0.08	
7.691	15327	14556	0.950	0.03	
7.728	25197	23694	0.940	0.05	
7.801	22218	13854	0.624	0.04	
7.903	29108	26720	0.918	0.06	
8.275	59263	49344	0.833	0.13	
8.377	15156	10204	0.673	0.03	
8.572	5357294	4462099	0.833	12.02	$ 12 Decachlorobiphenyl
8.935	9803	6990	0.713	0.02	
9.469	13670	9800	0.717	0.03	
9.961	11612	9138	0.787	0.02	
	44538155	40084520		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 14-MAR-2018 16:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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		
2.484	2.484	0.000	6032956	0.05000	0.049			
6 Aroclor 1248						CAS #: 12672-29-6		
4.261	4.261	0.000	1200160	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2094455	0.50000	0.50	0.00- 20.00	174.51	BA
4.813	4.812	0.001	1056327	0.50000	0.52	0.00- 20.00	88.02	BA
4.878	4.879	-0.001	2586326	0.50000	0.51	0.00- 20.00	215.50	BA
5.037	5.038	-0.001	1850271	0.50000	0.52	0.00- 20.00	154.17	BA
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.572	8.571	0.001	5357293	0.05000	0.049			

QC Flag Legend

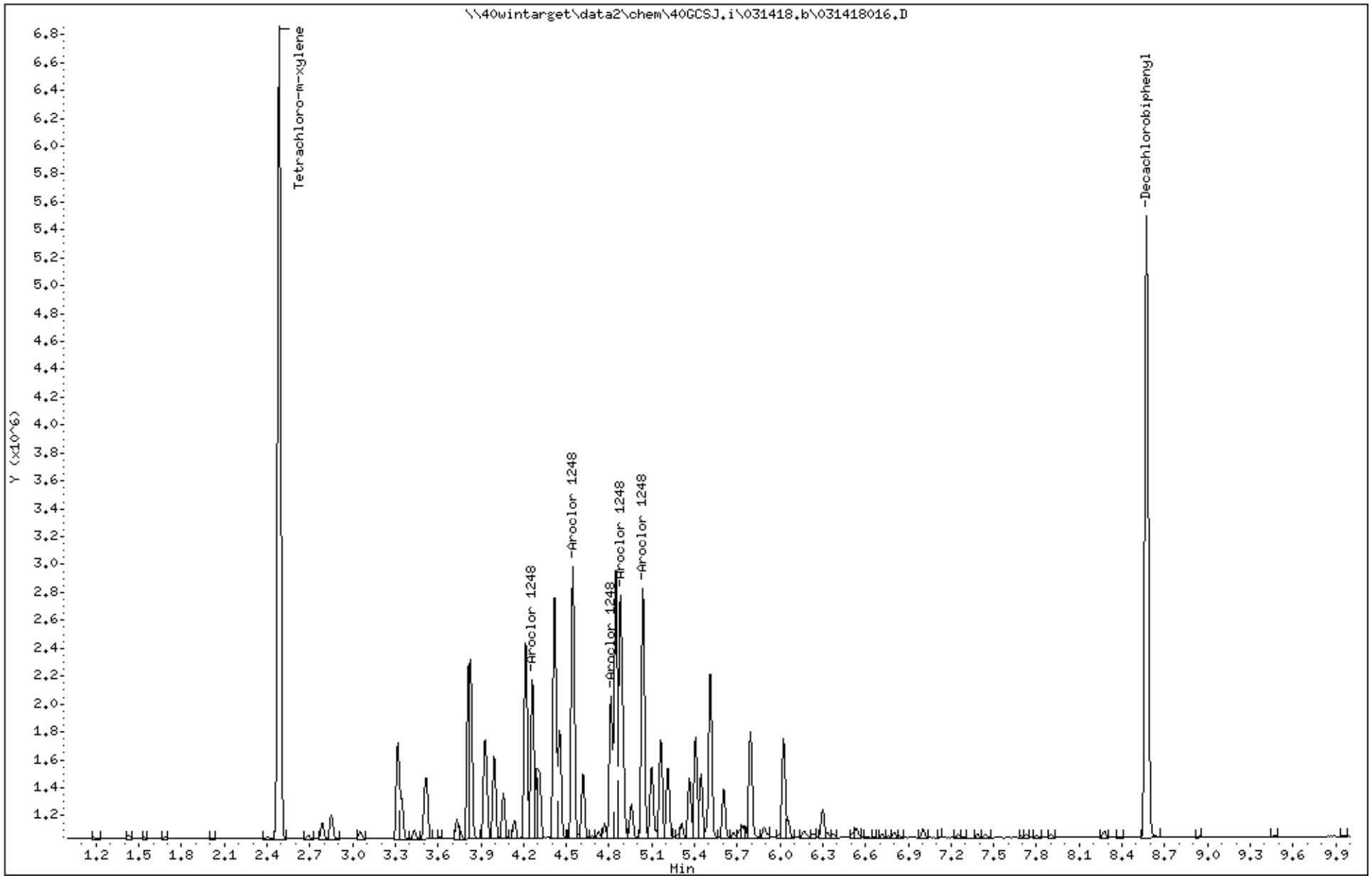
M - Compound response manually integrated.

Review Codes Legend

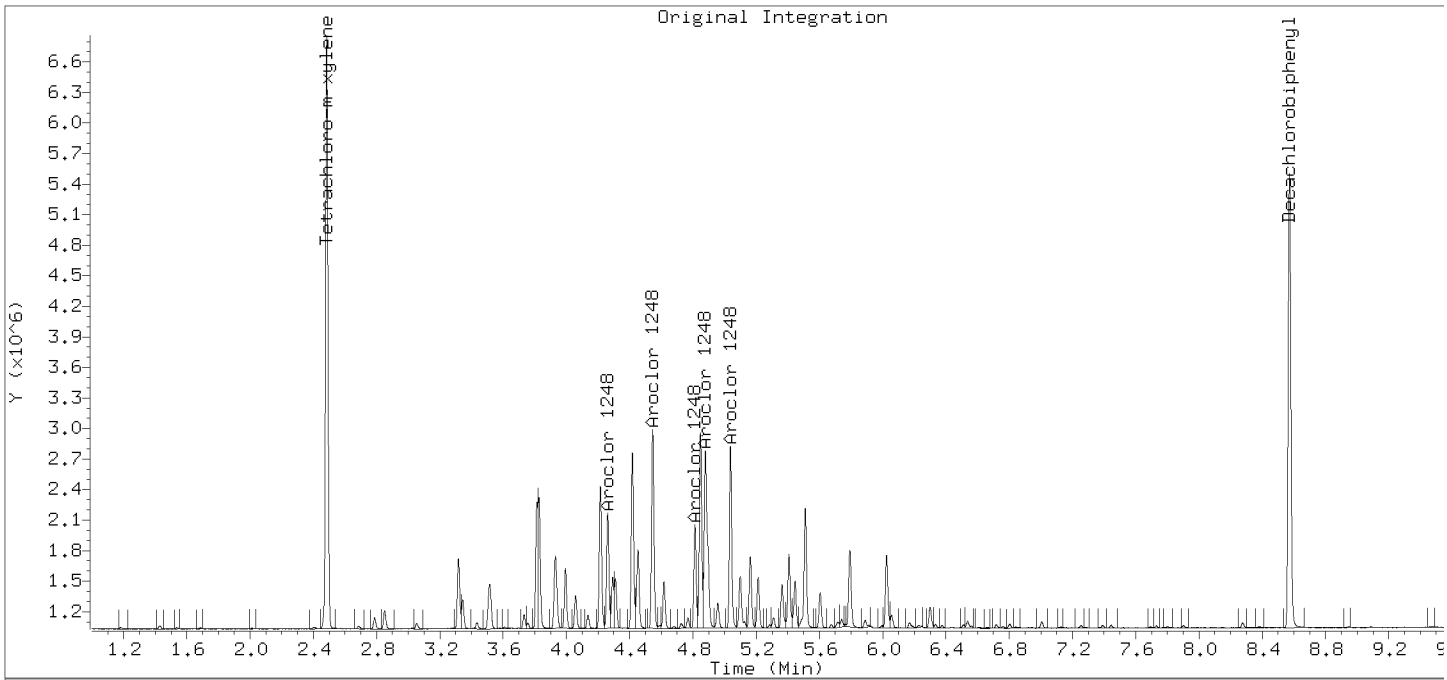
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

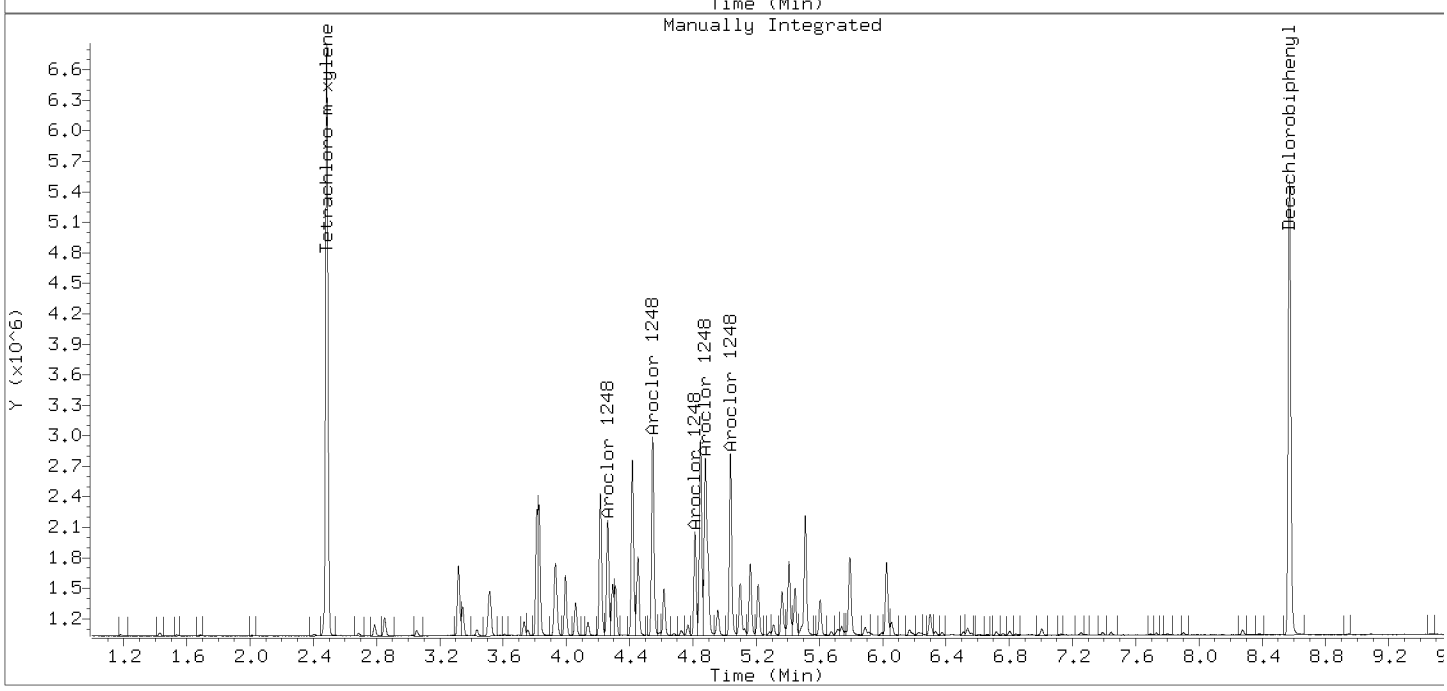
Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418016.D
Date : 14-MAR-2018 16:22
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418016.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 14-MAR-2018 16:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1190556	1200160	BA
Aroclor 1248	1190556	1200160	BA
Aroclor 1248	1190556	1200160	BA
Aroclor 1248	1190556	1200160	BA
Aroclor 1248	1190556	1200160	BA
Tetrachloro-m-xylene	6032956	6032956	
Decachlorobiphenyl	5357293	5357293	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418025.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 14-MAR-2018 18:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 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
1.184	24572	20116	0.819	0.04		
1.429	36622	31232	0.853	0.06		
1.539	20957	13856	0.661	0.03		
1.688	17722	13538	0.764	0.03		
2.010	17777	12901	0.726	0.03		
2.485	6021859	5676111	0.943	11.72	$ 2 Tetrachloro-m-xylene	
2.786	86525	81827	0.946	0.16		
2.853	21069	18842	0.894	0.03		
3.032	12297	10731	0.873	0.02		
3.051	21824	21017	0.963	0.04		
3.317	34182	27244	0.797	0.06		
3.513	30637	22358	0.730	0.05		
3.611	19057	18113	0.950	0.03		
3.813	75556	52102	0.690	0.14		
3.933	61417	41905	0.682	0.11		
3.995	36753	29239	0.796	0.06		
4.057	26484	21425	0.809	0.04		
4.129	10042	9411	0.937	0.01		
4.215	1234432	1175472	0.952	2.31		
4.261	326766	322407	0.987	0.61		
4.293	62101	46515	0.749	0.11		
4.417	758074	740736	0.977	1.42		
4.454	72519	67618	0.932	0.13		
4.545	344351	327986	0.952	0.64		
4.591	14249	14184	0.995	0.02		
4.616	60501	55621	0.919	0.11		
4.682	22449	16649	0.742	0.04		
4.728	10906	9182	0.842	0.02		
4.768	22259	19942	0.896	0.04		
4.813	292766	286646	0.979	0.54		
4.848	1132250	1069440	0.945	2.12		
4.894	2407481	1904557	0.791	4.51		
4.957	384890	349458	0.908	0.72		
5.037	246240	230251	0.935	0.46		
5.099	1413141	1244721	0.881	2.65		
5.162	2602349	2407445	0.925	4.88	7 Aroclor 1254	BA
5.212	1183950	1095673	0.925	2.22		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	60819	58379	0.960	0.11	
5.309	213913	202347	0.946	0.40	
5.364	1036263	949891	0.917	1.94	
5.407	2174206	1971673	0.907	4.08	7 Aroclor 1254
5.446	737824	691000	0.937	1.38	
5.478	258469	254600	0.985	0.48	
5.510	3884254	3534104	0.910	7.28	7 Aroclor 1254
5.577	28886	30260	1.048	0.05	
5.604	539802	503344	0.932	1.01	
5.675	346396	327137	0.944	0.65	
5.711	533598	353736	0.663	1.00	
5.740	339950	285535	0.840	0.63	
5.791	3962745	3181602	0.803	7.43	
5.885	344321	278009	0.807	0.64	
5.926	174589	115122	0.659	0.32	
5.994	325318	317899	0.977	0.61	
6.026	2548480	2148892	0.843	4.78	7 Aroclor 1254
6.056	1723792	1505010	0.873	3.23	
6.169	707776	596569	0.843	1.32	
6.228	288011	298024	1.035	0.54	
6.241	321442	295463	0.919	0.60	
6.299	3322960	2873175	0.865	6.23	7 Aroclor 1254
6.334	572000	551168	0.964	1.07	
6.373	325427	277824	0.854	0.61	
6.436	80149	49444	0.617	0.15	
6.489	18645	16257	0.872	0.03	
6.509	117671	125936	1.070	0.22	
6.536	1131240	904878	0.800	2.12	
6.604	161818	138021	0.853	0.30	
6.662	27108	23701	0.874	0.05	
6.718	219047	185836	0.848	0.41	
6.758	130281	116871	0.897	0.24	
6.802	638961	602524	0.943	1.19	
6.844	166163	118835	0.715	0.31	
6.941	56974	51490	0.904	0.10	
7.005	419420	401028	0.956	0.78	
7.038	30589	26386	0.863	0.05	
7.076	19919	17593	0.883	0.03	
7.252	364881	329635	0.903	0.68	
7.282	70393	65760	0.934	0.13	
7.393	21162	15756	0.745	0.03	
7.443	27862	22845	0.820	0.05	
7.554	25351	17779	0.701	0.04	
7.692	14805	13185	0.891	0.02	
7.727	20847	20709	0.993	0.03	
7.778	9359	10676	1.141	0.01	
7.801	15639	14010	0.896	0.02	
7.899	27971	20098	0.719	0.05	
8.273	53919	43404	0.805	0.10	
8.572	5402337	4646474	0.860	10.13	$ 12 Decachlorobiphenyl
8.939	13359	10613	0.794	0.02	
9.472	37063	18505	0.499	0.06	
9.961	27608	21916	0.794	0.05	
	53288806	47157399		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418025.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 14-MAR-2018 18:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 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	6021858	0.05000	0.049			
7 Aroclor 1254						CAS #: 11097-69-1		
5.162	5.162	0.000	2602349	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2174205	0.50000	0.50	0.00- 20.00	83.55	BA
5.510	5.510	0.000	3884254	0.50000	0.50	0.00- 20.00	149.26	BA
6.026	6.027	-0.001	2548480	0.50000	0.52	0.00- 20.00	97.93	BA
6.299	6.299	0.000	3322959	0.50000	0.51	0.00- 20.00	127.69	BA
Average of Peak Amounts =					0.50600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.572	8.571	0.001	5402337	0.05000	0.049			

QC Flag Legend

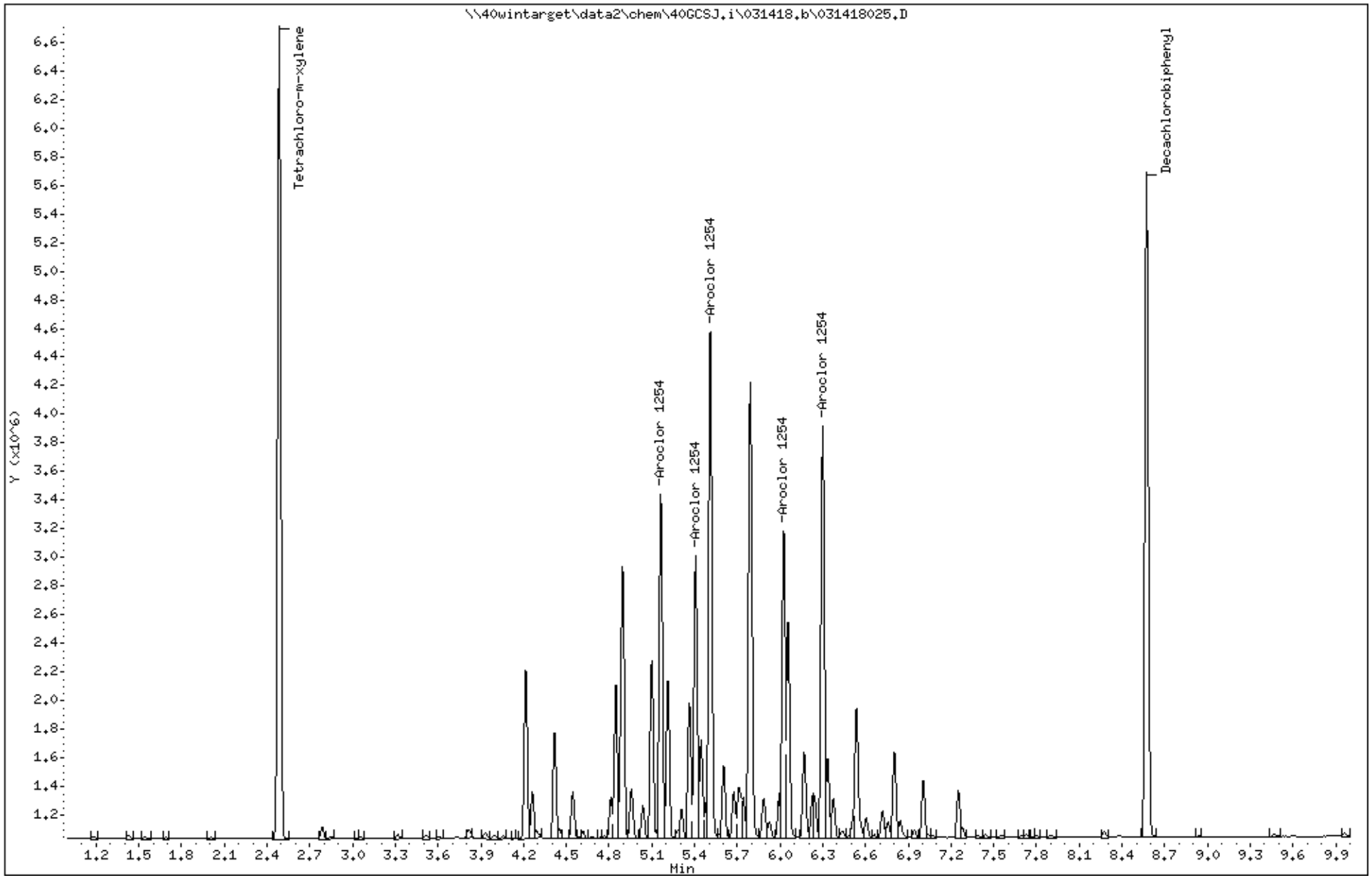
M - Compound response manually integrated.

Review Codes Legend

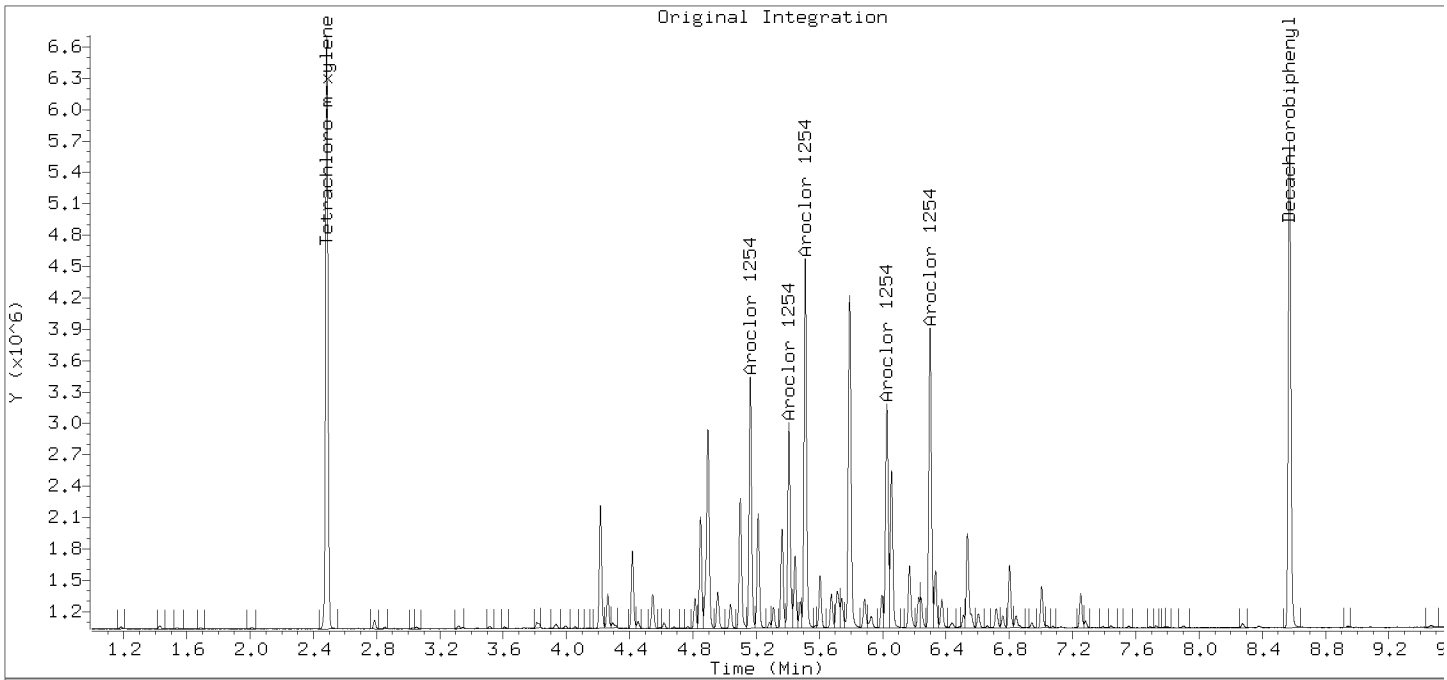
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

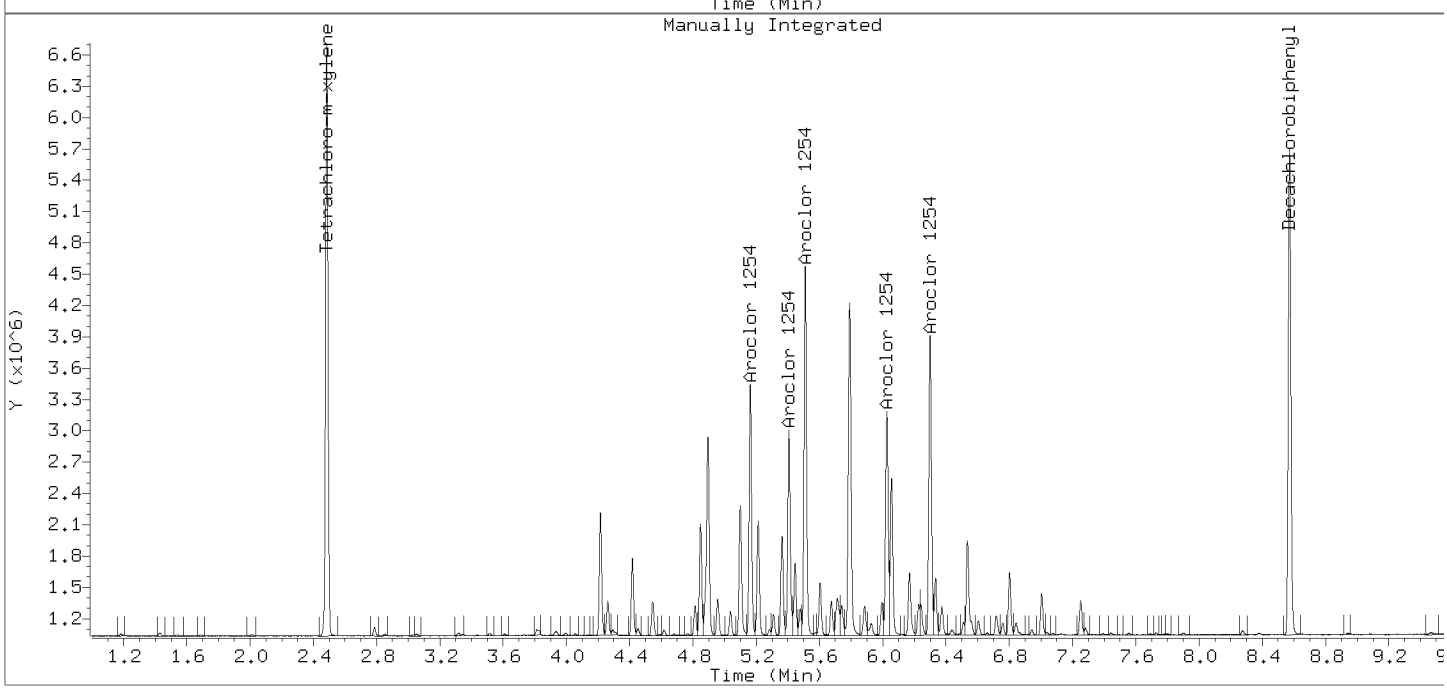
Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418025.D
Date : 14-MAR-2018 18:45
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418025.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 14-MAR-2018 18:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2593104	2602349	BA
Aroclor 1254	2593104	2602349	BA
Aroclor 1254	2593104	2602349	BA
Aroclor 1254	2593104	2602349	BA
Aroclor 1254	2593104	2602349	BA
Tetrachloro-m-xylene	6021858	6021858	
Decachlorobiphenyl	5402337	5402337	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 21-MAR-2018 13:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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
1.184	32274	25003	0.775	0.19			
1.429	37393	31584	0.845	0.22			
1.535	13429	11129	0.829	0.07			
1.687	25068	20326	0.811	0.14			
1.805	509641	429821	0.843	3.02		1 Aroclor 1221	BA
2.012	21353	15287	0.716	0.12			
2.197	153401	134766	0.879	0.91			
2.406	261553	192370	0.735	1.55		1 Aroclor 1221	BA
2.485	5930161	5623018	0.948	35.45	$	2 Tetrachloro-m-xylene	BA
2.688	666937	556122	0.834	3.95		1 Aroclor 1221	BA
2.789	528239	494277	0.936	3.13		1 Aroclor 1221	BA
2.850	1615401	1432866	0.887	9.58		1 Aroclor 1221	BA
3.031	11004	10498	0.954	0.06			
3.054	35549	29713	0.836	0.21			
3.213	11348	9279	0.818	0.06			
3.281	114066	85303	0.748	0.67			
3.324	371460	213595	0.575	2.20			
3.436	31757	31317	0.986	0.18			
3.512	143148	104206	0.728	0.84			
3.609	15173	14808	0.976	0.09			
3.695	10851	11030	1.017	0.06			
3.732	39357	39976	1.016	0.23			
3.756	37585	35823	0.953	0.22			
3.826	314304	193272	0.615	1.86			
3.928	157949	132322	0.838	0.93			
3.995	103690	92680	0.894	0.61			
4.056	22157	17564	0.793	0.13			
4.214	36127	34079	0.943	0.21			
4.262	28458	29984	1.054	0.16			
4.417	35720	37867	1.060	0.21			
4.444	27209	20223	0.743	0.16			
4.545	54894	48324	0.880	0.32			
4.616	14272	14154	0.992	0.08			
4.815	19934	20424	1.025	0.11			
4.848	33494	32319	0.965	0.19			
4.880	46943	34659	0.738	0.27			
5.037	32409	29810	0.920	0.19			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.161	10302	9892	0.960	0.06	
5.510	15201	11360	0.747	0.09	
5.697	9923	8485	0.855	0.05	
7.124	19201	12315	0.641	0.11	
7.727	25283	22047	0.872	0.15	
7.778	9364	9756	1.042	0.05	
7.800	19971	19396	0.971	0.11	
8.276	48197	40193	0.834	0.28	
8.376	17625	12416	0.704	0.10	
8.571	5088596	4459933	0.876	30.20	$ 12 Decachlorobiphenyl
8.943	15567	10442	0.671	0.09	
9.464	10079	9592	0.952	0.05	
9.962	13834	10082	0.729	0.08	
	16846852	14925707		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 21-MAR-2018 13:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	5930160	0.05000	0.048			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	509640	0.50000	0.49	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	261553	0.50000	0.48	0.00- 20.00	51.32		BA
2.688	2.688	0.000	666937	0.50000	0.48	0.00- 20.00	130.86		BA
2.788	2.789	-0.001	528239	0.50000	0.48	0.00- 20.00	103.65		BA
2.850	2.851	-0.001	1615401	0.50000	0.50	0.00- 20.00	316.97		BA
Average of Peak Amounts =					0.48600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5088595	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.

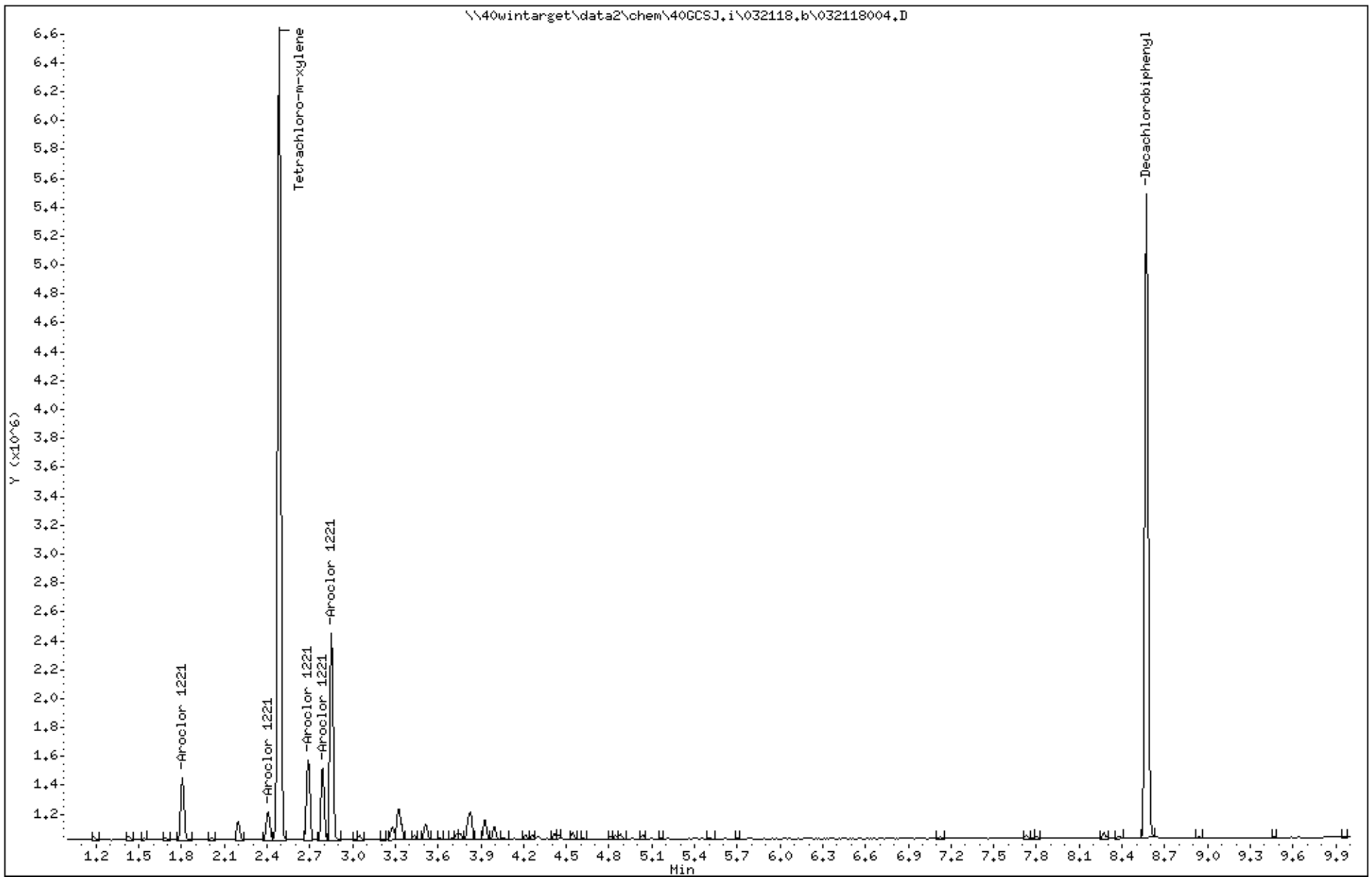
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118004.D
Date : 21-MAR-2018 13:07
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

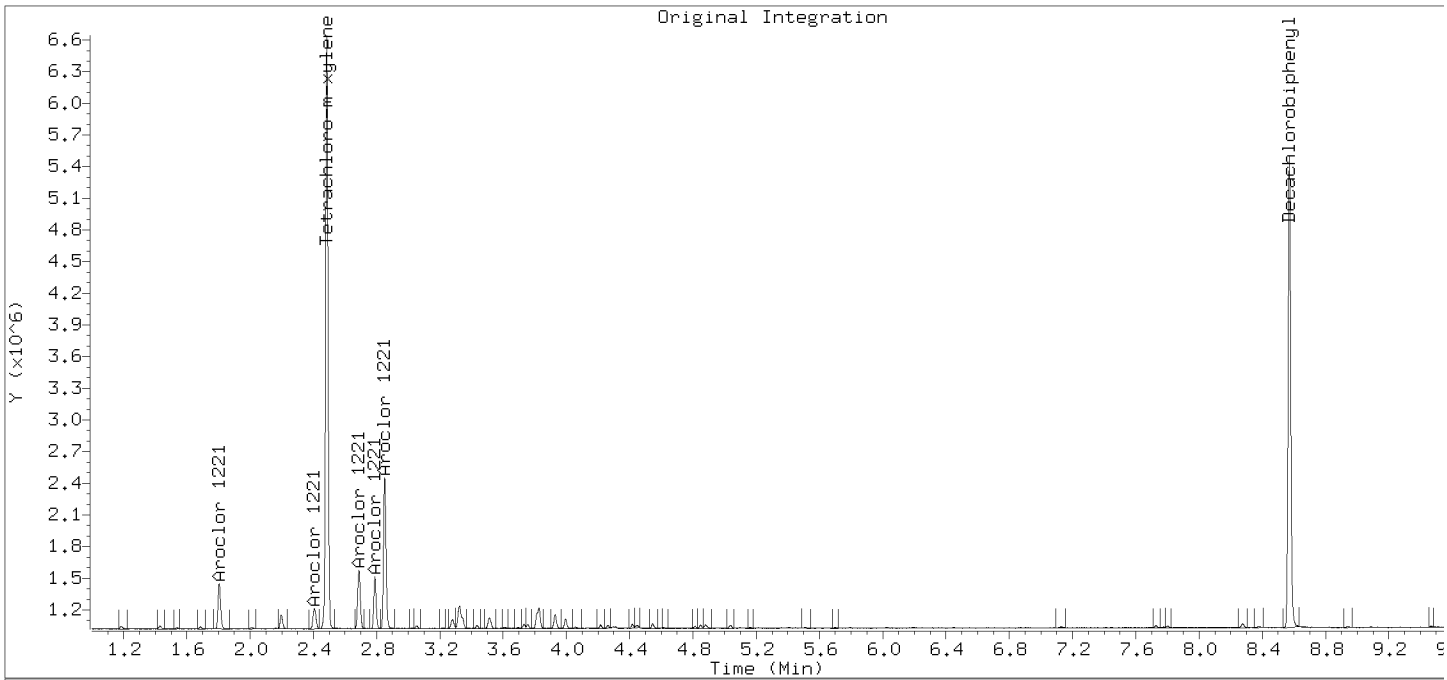
Operator: BLM

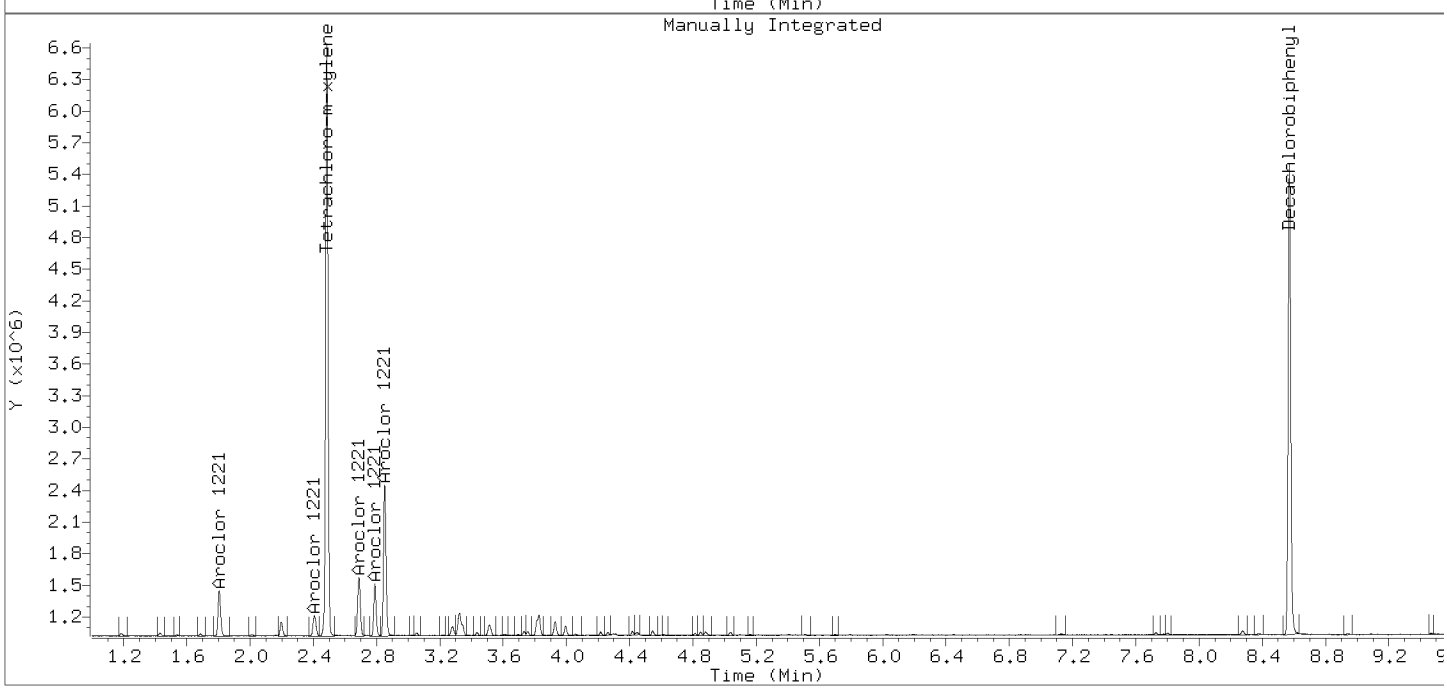
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118004.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 21-MAR-2018 13:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	499822	509640	BA
Aroclor 1221	499822	509640	BA
Aroclor 1221	499822	509640	BA
Aroclor 1221	499822	509640	BA
Aroclor 1221	499822	509640	BA
Tetrachloro-m-xylene	5913754	5930160	BA
Decachlorobiphenyl	5088595	5088595	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 21-MAR-2018 16:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	30119	24580	0.816	0.10		
1.428	42399	33824	0.798	0.14		
1.533	17139	13441	0.784	0.06		
1.686	14967	11840	0.791	0.05		
1.805	312732	273024	0.873	1.10		
2.009	14035	12318	0.878	0.04		
2.196	93704	83516	0.891	0.33		
2.407	205649	152756	0.743	0.72		
2.484	6064136	5870373	0.968	21.83	$ 2 Tetrachloro-m-xylene	
2.687	461903	381674	0.826	1.63		
2.789	424679	403036	0.949	1.50		
2.850	1365594	1247682	0.914	4.83	4 Aroclor 1232	BA
3.032	16427	14744	0.898	0.05		
3.054	89820	80915	0.901	0.31		
3.279	79613	59298	0.745	0.28		
3.318	789526	707548	0.896	2.79		
3.344	421113	388783	0.923	1.48		
3.433	124317	108880	0.876	0.43		
3.512	711847	522083	0.733	2.51	4 Aroclor 1232	BA
3.608	21786	20665	0.949	0.07		
3.647	14593	11626	0.797	0.05		
3.697	26334	24379	0.926	0.09		
3.731	192996	189310	0.981	0.68		
3.755	140452	129363	0.921	0.49		
3.825	2068163	1203063	0.582	7.31	4 Aroclor 1232	BA
3.929	883434	749343	0.848	3.12	4 Aroclor 1232	BA
3.994	585183	564492	0.965	2.07	4 Aroclor 1232	BA
4.058	171224	144793	0.846	0.60		
4.137	68232	55213	0.809	0.24		
4.215	419879	392451	0.935	1.48		
4.261	405114	384273	0.949	1.43		
4.292	174968	181049	1.035	0.61		
4.309	213671	199707	0.935	0.75		
4.366	22442	15509	0.691	0.07		
4.416	564975	537788	0.952	1.99		
4.451	472024	325728	0.690	1.66		
4.545	728255	687671	0.944	2.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	182476	161303	0.884	0.64	
4.680	16036	11559	0.721	0.05	
4.726	41031	33462	0.816	0.14	
4.768	41332	38539	0.932	0.14	
4.813	338966	330427	0.975	1.19	
4.847	589080	581727	0.988	2.08	
4.878	750031	585127	0.780	2.65	
4.959	80123	60696	0.758	0.28	
5.037	636506	612173	0.962	2.25	
5.098	114459	90016	0.786	0.40	
5.162	136180	121520	0.892	0.48	
5.212	93165	87287	0.937	0.32	
5.310	27390	20840	0.761	0.09	
5.363	83522	71721	0.859	0.29	
5.406	146044	124573	0.853	0.51	
5.445	87671	78424	0.895	0.31	
5.508	250535	184551	0.737	0.88	
5.603	70389	62943	0.894	0.24	
5.677	14442	13020	0.902	0.05	
5.790	165793	131666	0.794	0.58	
5.881	15948	17286	1.084	0.05	
6.023	133233	117111	0.879	0.47	
6.056	36768	28832	0.784	0.13	
6.166	18071	10819	0.599	0.06	
6.299	43466	36942	0.850	0.15	
6.448	12326	9697	0.787	0.04	
6.511	9330	10278	1.102	0.03	
6.721	18467	15064	0.816	0.06	
6.756	12036	9492	0.789	0.04	
6.801	13270	10787	0.813	0.04	
7.006	23012	22239	0.966	0.08	
7.246	16365	12814	0.783	0.05	
7.729	21453	18752	0.874	0.07	
7.799	9284	8973	0.967	0.03	
8.273	48969	42199	0.862	0.17	
8.372	13121	12213	0.931	0.04	
8.571	5463313	4723724	0.865	19.32	$ 12 Decachlorobiphenyl
8.944	14372	9942	0.692	0.05	
9.469	15258	9609	0.630	0.05	
9.957	12091	10864	0.899	0.04	
	28268766	24745949		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 21-MAR-2018 16:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	6064135	0.05000	0.049			
4 Aroclor 1232						CAS #: 1114-16-5		
2.850	2.851	-0.001	1365593	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	711847	0.50000	0.53	0.00- 20.00	52.13	BA
3.825	3.827	-0.002	2068163	0.50000	0.55	0.00- 20.00	151.45	BA
3.928	3.929	-0.001	883434	0.50000	0.55	0.00- 20.00	64.69	BA
3.993	3.995	-0.002	585182	0.50000	0.54	0.00- 20.00	42.85	BA
Average of Peak Amounts =					0.54400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5463313	0.05000	0.050			

QC Flag Legend

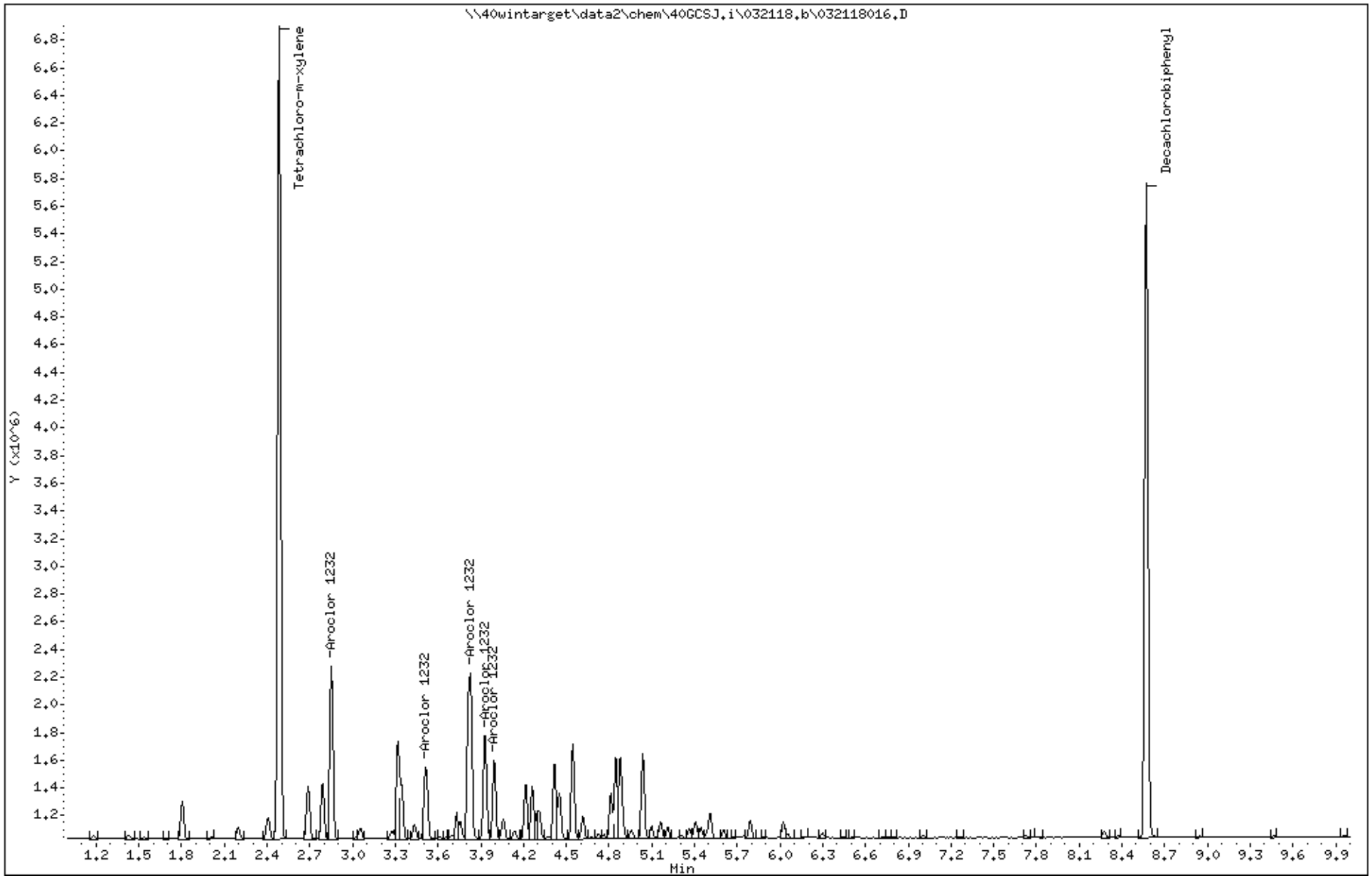
M - Compound response manually integrated.

Review Codes Legend

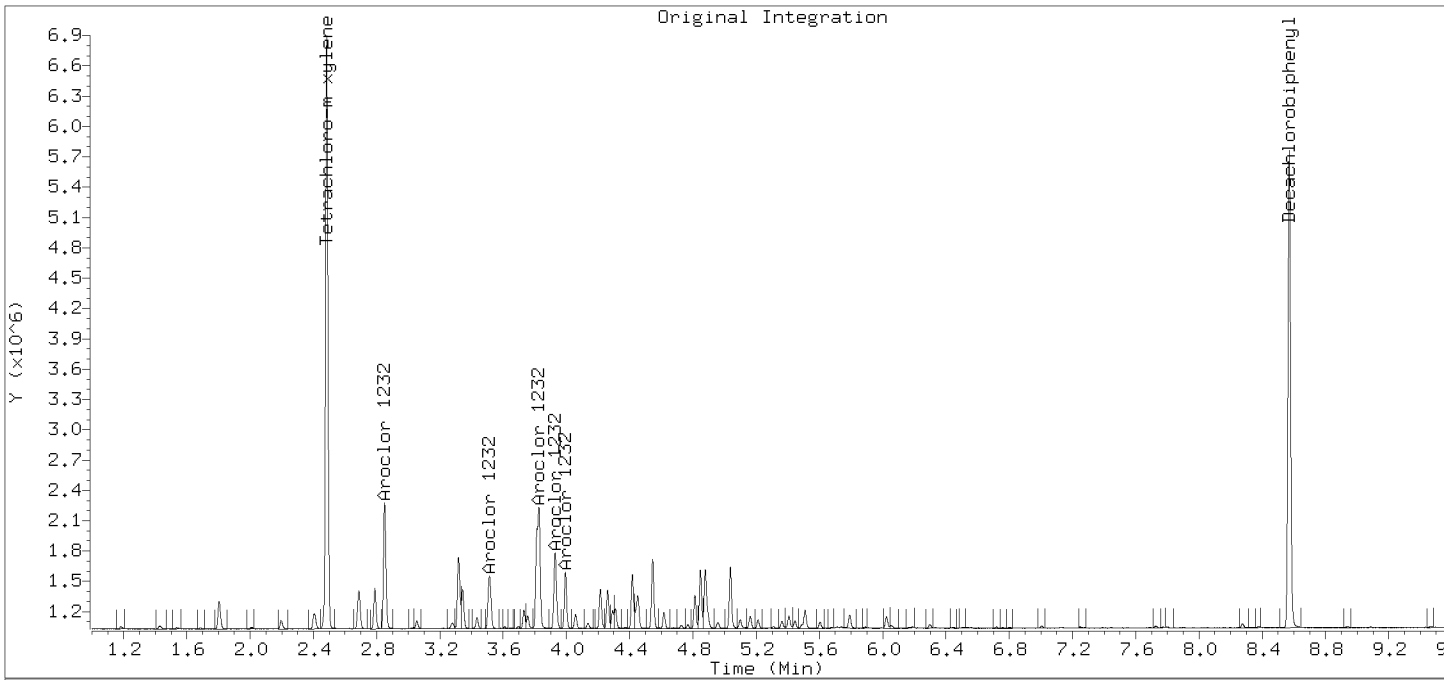
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

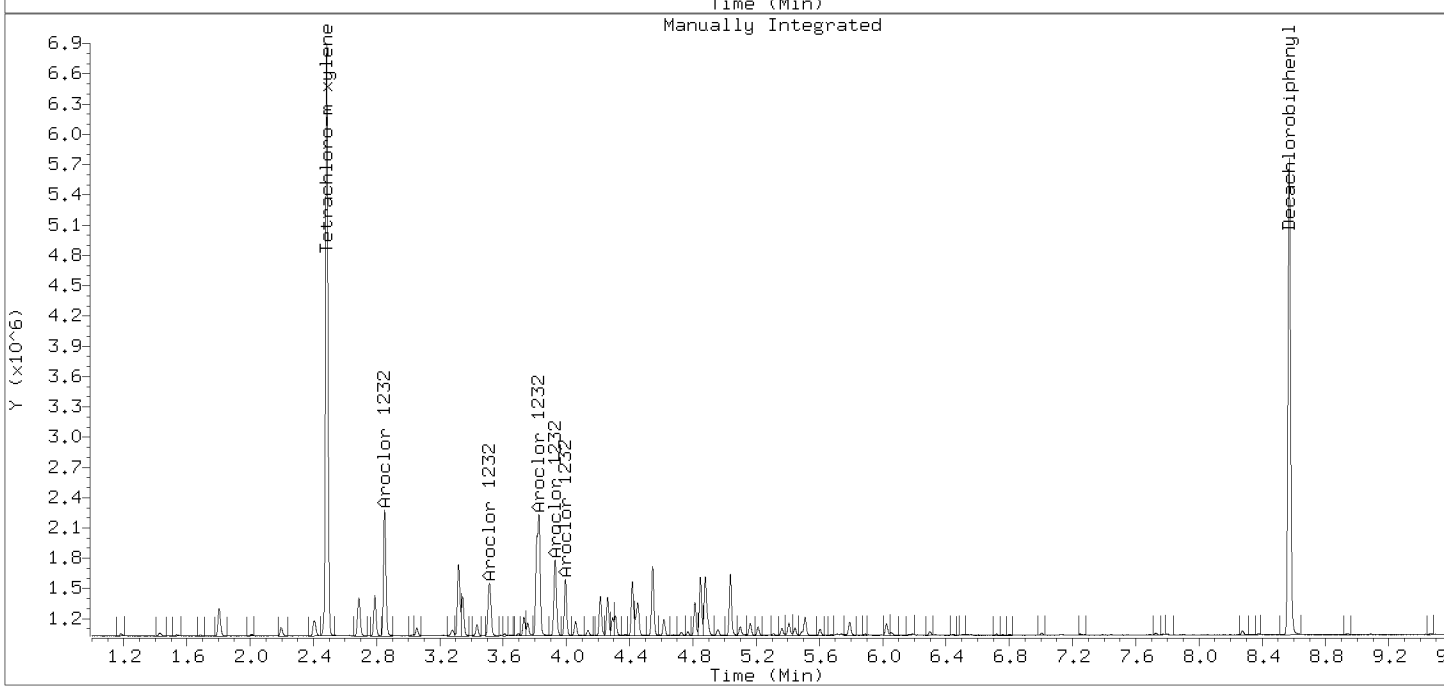
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118016.D
Date : 21-MAR-2018 16:17
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118016.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 21-MAR-2018 16:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1353251	1365593	BA
Aroclor 1232	1353251	1365593	BA
Aroclor 1232	1353251	1365593	BA
Aroclor 1232	1353251	1365593	BA
Aroclor 1232	1353251	1365593	BA
Tetrachloro-m-xylene	6064135	6064135	
Decachlorobiphenyl	5463313	5463313	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118028.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 21-MAR-2018 19:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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
1.186	32431	25213	0.777	0.08		
1.430	40265	32078	0.797	0.10		
1.538	18610	14622	0.786	0.04		
1.684	23699	19929	0.841	0.05		
1.809	15940	12437	0.780	0.03		
2.008	18211	15953	0.876	0.04		
2.405	122905	95923	0.780	0.30		
2.484	6049130	5748107	0.950	15.57	$ 2 Tetrachloro-m-xylene	
2.687	181169	148269	0.818	0.45		
2.788	275663	255962	0.929	0.69		
2.850	966457	899818	0.931	2.42		
3.055	138772	130405	0.940	0.34		
3.274	22243	19469	0.875	0.05		
3.317	1305537	1228014	0.941	3.27	3 Aroclor 1242	BA
3.344	746087	695174	0.932	1.86		
3.433	209300	187426	0.895	0.52		
3.513	1288006	928140	0.721	3.22	3 Aroclor 1242	BA
3.609	23730	20670	0.871	0.05		
3.695	36747	36767	1.001	0.09		
3.731	331529	323499	0.976	0.83		
3.756	213398	210183	0.985	0.53		
3.826	3728619	2194783	0.589	9.34	3 Aroclor 1242	BA
3.928	1588507	1357512	0.855	3.98	3 Aroclor 1242	BA
3.993	1059847	1020808	0.963	2.65	3 Aroclor 1242	BA
4.058	313169	281417	0.899	0.78		
4.135	124323	111510	0.897	0.31		
4.214	868275	815266	0.939	2.17		
4.261	838052	788638	0.941	2.10		
4.292	344311	361231	1.049	0.86		
4.309	429455	406006	0.945	1.07		
4.370	27418	21565	0.787	0.06		
4.417	1140204	1087319	0.954	2.85		
4.451	920352	653061	0.710	2.30		
4.545	1492660	1363322	0.913	3.74		
4.588	17595	19035	1.082	0.04		
4.617	335591	320496	0.955	0.84		
4.681	25206	18897	0.750	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	71989	64049	0.890	0.18	
4.767	82298	78035	0.948	0.20	
4.812	715919	712336	0.995	1.79	
4.847	1227347	1194877	0.974	3.07	
4.877	1559803	1184048	0.759	3.90	
4.957	166384	137178	0.824	0.41	
5.036	1306261	1226054	0.939	3.27	
5.099	265941	207369	0.780	0.66	
5.162	317239	285388	0.900	0.79	
5.211	238673	218884	0.917	0.59	
5.286	18791	17941	0.955	0.04	
5.309	54685	44850	0.820	0.13	
5.362	203187	179845	0.885	0.50	
5.406	351592	304612	0.866	0.88	
5.445	223189	199435	0.894	0.55	
5.509	565415	441164	0.780	1.41	
5.604	174593	152097	0.871	0.43	
5.674	13014	11193	0.860	0.03	
5.715	41329	30140	0.729	0.10	
5.741	46385	42519	0.917	0.11	
5.791	401400	347403	0.865	1.00	
5.888	58683	39100	0.666	0.14	
5.992	10843	14110	1.301	0.02	
6.024	348319	301588	0.866	0.87	
6.054	66732	52200	0.782	0.16	
6.168	22232	21537	0.969	0.05	
6.189	25025	18785	0.751	0.06	
6.226	29272	17898	0.611	0.07	
6.298	112433	98176	0.873	0.28	
6.331	25714	21616	0.841	0.06	
6.372	23771	16502	0.694	0.05	
6.444	10755	9419	0.876	0.02	
6.536	45990	35148	0.764	0.11	
6.801	27937	23479	0.840	0.07	
6.841	12674	9144	0.721	0.03	
7.728	22769	20297	0.891	0.05	
7.774	14295	12894	0.902	0.03	
7.799	22602	16522	0.731	0.05	
8.275	50856	41881	0.824	0.12	
8.375	24247	16951	0.699	0.06	
8.570	5479113	4714791	0.861	13.73	$ 12 Decachlorobiphenyl
8.742	20149	14484	0.719	0.05	
8.943	22624	14256	0.630	0.05	
9.084	9533	8619	0.904	0.02	
9.467	31446	15945	0.507	0.07	
9.962	26194	17688	0.675	0.06	
	39903057	34521371		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118028.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 21-MAR-2018 19:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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			
2.483	2.484	-0.001	6049129	0.05000	0.049			
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	1305537	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1288006	0.50000	0.51	0.00- 20.00	98.66	BA
3.825	3.827	-0.002	3728618	0.50000	0.52	0.00- 20.00	285.60	BA
3.927	3.929	-0.002	1588507	0.50000	0.52	0.00- 20.00	121.67	BA
3.993	3.995	-0.002	1059846	0.50000	0.52	0.00- 20.00	81.18	BA
Average of Peak Amounts =					0.51800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5479112	0.05000	0.050			

QC Flag Legend

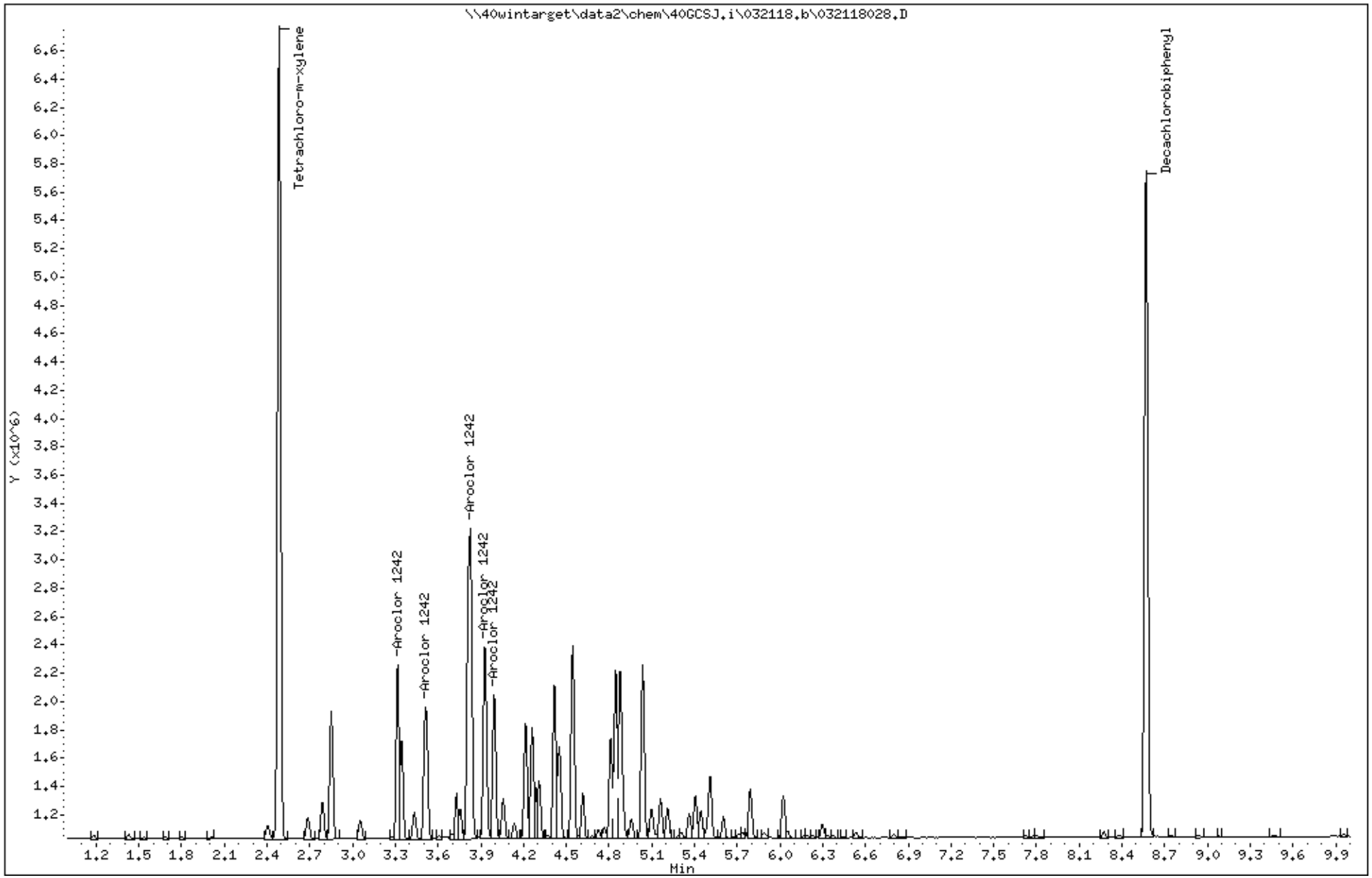
M - Compound response manually integrated.

Review Codes Legend

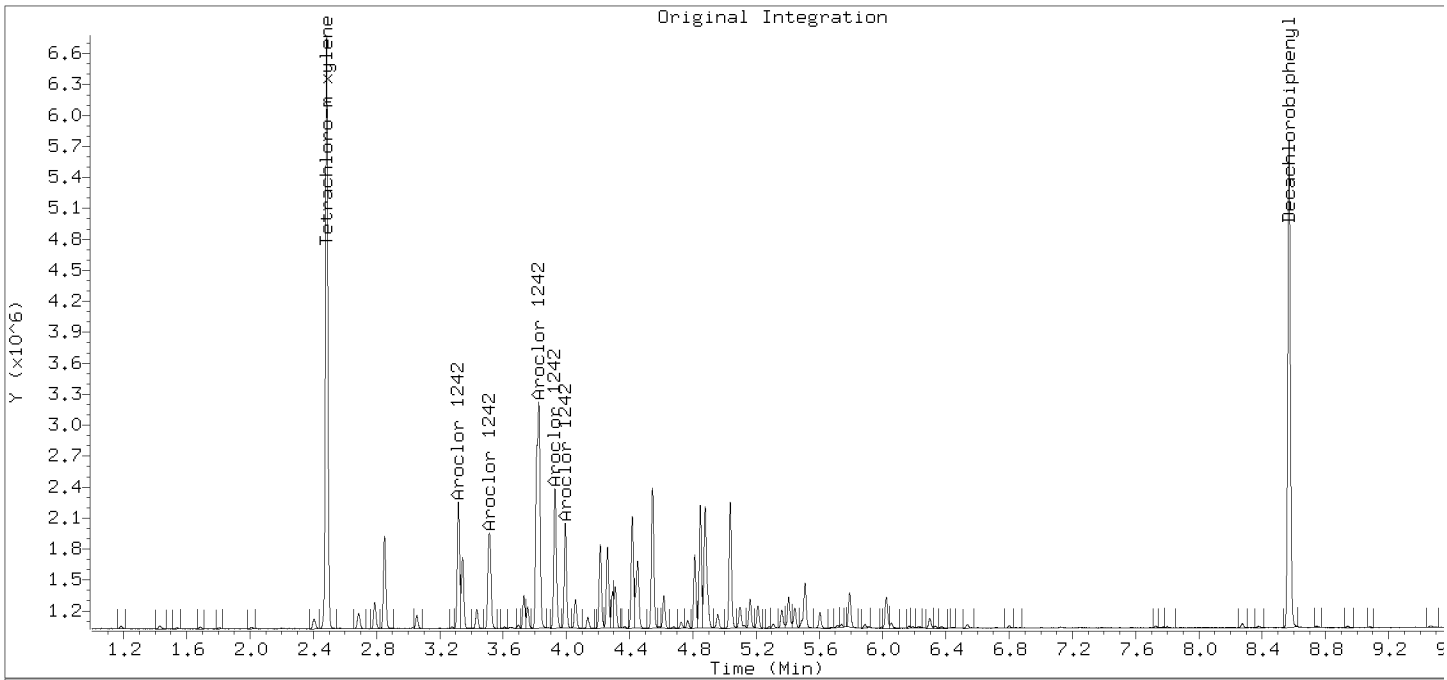
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

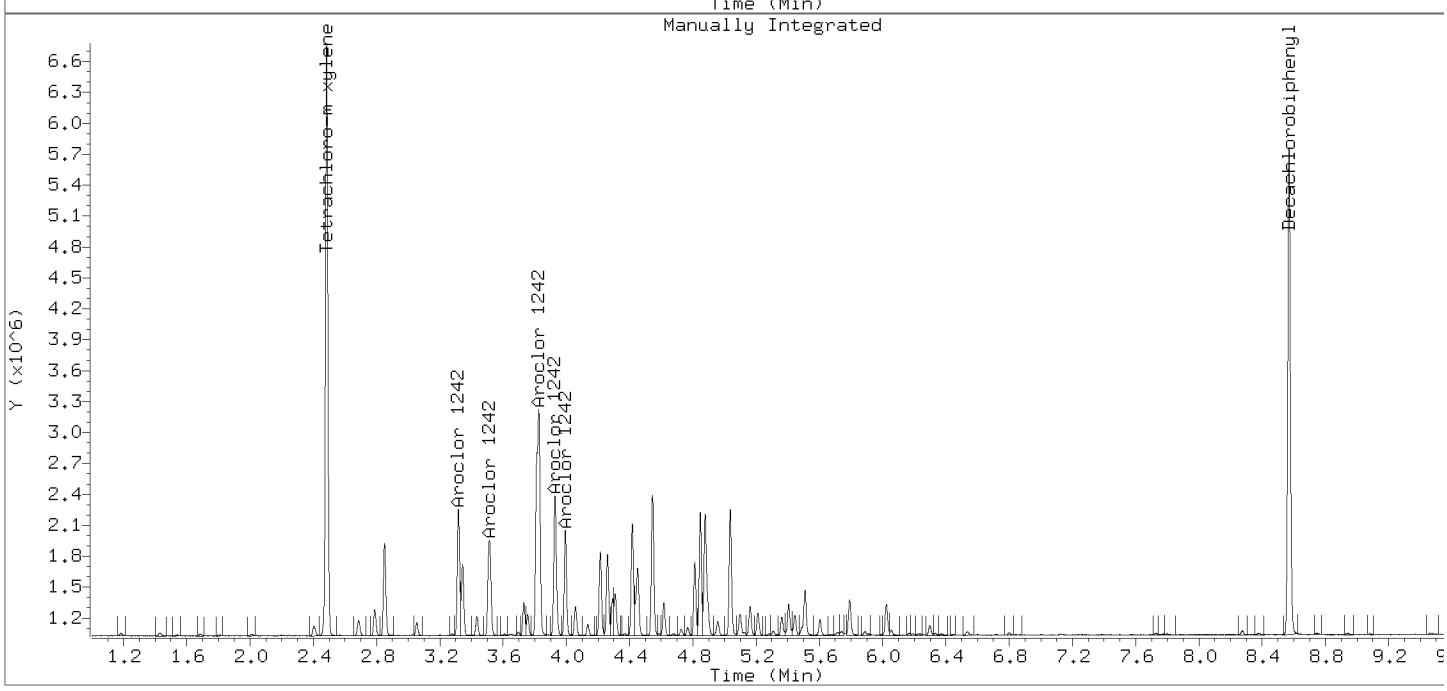
Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118028.D
Date : 21-MAR-2018 19:27
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118028.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 21-MAR-2018 19:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1299661	1305537	BA
Aroclor 1242	1299661	1305537	BA
Aroclor 1242	1299661	1305537	BA
Aroclor 1242	1299661	1305537	BA
Aroclor 1242	1299661	1305537	BA
Tetrachloro-m-xylene	6049129	6049129	
Decachlorobiphenyl	5479112	5479112	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118034.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 21-MAR-2018 21:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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
1.184	43559	35187	0.808	0.09		
1.427	40684	34699	0.853	0.08		
1.534	18823	14365	0.763	0.04		
1.688	24935	23050	0.924	0.05		
2.011	27781	19740	0.711	0.06		
2.403	28487	19657	0.690	0.06		
2.484	6124973	5880611	0.960	13.83	$ 2 Tetrachloro-m-xylene	
2.688	36789	27274	0.741	0.08		
2.787	114522	110539	0.965	0.24		
2.850	195592	182942	0.935	0.42		
3.029	15779	15118	0.958	0.03		
3.053	63059	55031	0.873	0.13		
3.317	730826	721535	0.987	1.59		
3.343	300049	290034	0.967	0.65		
3.433	63437	61298	0.966	0.13		
3.514	612031	444958	0.727	1.33		
3.609	20025	20941	1.046	0.04		
3.644	11732	8891	0.758	0.02		
3.731	141533	139388	0.985	0.30		
3.755	64857	60963	0.940	0.14		
3.814	1168852	1298412	1.111	2.54		
3.825	1308836	1328076	1.015	2.85		
3.929	936134	727613	0.777	2.04		
3.993	625524	607285	0.971	1.36		
4.058	357910	324371	0.906	0.78		
4.136	150962	135798	0.900	0.32		
4.214	1530374	1450519	0.948	3.33		
4.261	1218750	1149041	0.943	2.65	6 Aroclor 1248	BA
4.292	511978	508803	0.994	1.11		
4.309	534963	510986	0.955	1.16		
4.417	1869693	1773322	0.948	4.07		
4.452	925733	796791	0.861	2.01		
4.545	2141482	1935949	0.904	4.66	6 Aroclor 1248	BA
4.589	31750	31851	1.003	0.06		
4.617	485756	470626	0.969	1.05		
4.680	29421	23204	0.789	0.06		
4.726	68171	54144	0.794	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.767	116634	108163	0.927	0.25	
4.812	1087551	1067647	0.982	2.37	6 Aroclor 1248
4.847	2082185	1954347	0.939	4.53	
4.878	2665219	1780829	0.668	5.80	6 Aroclor 1248
4.956	300174	258251	0.860	0.65	
5.036	1917600	1805492	0.942	4.17	6 Aroclor 1248
5.097	659729	527129	0.799	1.43	
5.161	794972	725818	0.913	1.73	
5.211	576263	527056	0.915	1.25	
5.283	38648	37669	0.975	0.08	
5.308	127417	106623	0.837	0.27	
5.362	512979	443056	0.864	1.11	
5.406	831158	738991	0.889	1.81	
5.445	532632	482741	0.906	1.16	
5.508	1414229	1163543	0.823	3.08	
5.604	403874	361833	0.896	0.88	
5.674	45849	41153	0.898	0.09	
5.714	93803	68646	0.732	0.20	
5.738	105060	93475	0.890	0.22	
5.762	36616	41631	1.137	0.07	
5.791	960550	813171	0.847	2.09	
5.886	129868	85286	0.657	0.28	
5.990	30711	29516	0.961	0.06	
6.022	841008	768477	0.914	1.83	
6.053	155766	132142	0.848	0.33	
6.168	95305	58948	0.619	0.20	
6.226	33340	32558	0.977	0.07	
6.298	251323	219075	0.872	0.54	
6.333	52163	42703	0.819	0.11	
6.373	41127	32692	0.795	0.08	
6.510	45170	42185	0.934	0.09	
6.535	104223	74276	0.713	0.22	
6.603	19928	13503	0.678	0.04	
6.658	18683	12654	0.677	0.04	
6.717	44906	36149	0.805	0.09	
6.756	23900	21883	0.916	0.05	
6.801	54395	43802	0.805	0.11	
6.837	18545	15601	0.841	0.04	
7.005	83167	70076	0.843	0.18	
7.125	23792	15383	0.647	0.05	
7.248	27158	27527	1.014	0.05	
7.388	33329	29472	0.884	0.07	
7.442	36303	30710	0.846	0.07	
7.688	14420	13660	0.947	0.03	
7.724	26943	22139	0.822	0.05	
7.773	17049	15353	0.901	0.03	
7.800	23751	18240	0.768	0.05	
7.899	30602	26414	0.863	0.06	
8.274	63975	52097	0.814	0.13	
8.377	25780	18169	0.705	0.05	
8.569	5552816	4724936	0.851	12.10	$ 12 Decachlorobiphenyl
8.940	25766	17392	0.675	0.05	
9.463	28508	17237	0.605	0.06	
9.956	26036	14168	0.544	0.05	
	45878660	41214699		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118034.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 21-MAR-2018 21:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 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	6124972	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1218750	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2141482	0.50000	0.52	0.00- 20.00	175.71	BA
4.812	4.812	0.000	1087550	0.50000	0.54	0.00- 20.00	89.23	BA
4.878	4.879	-0.001	2665219	0.50000	0.53	0.00- 20.00	218.68	BA
5.036	5.038	-0.002	1917599	0.50000	0.53	0.00- 20.00	157.34	BA
Average of Peak Amounts =					0.52800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5552815	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\032118.b\032118034.D

Date : 21-MAR-2018 21:02

Client ID: 1248-CCV

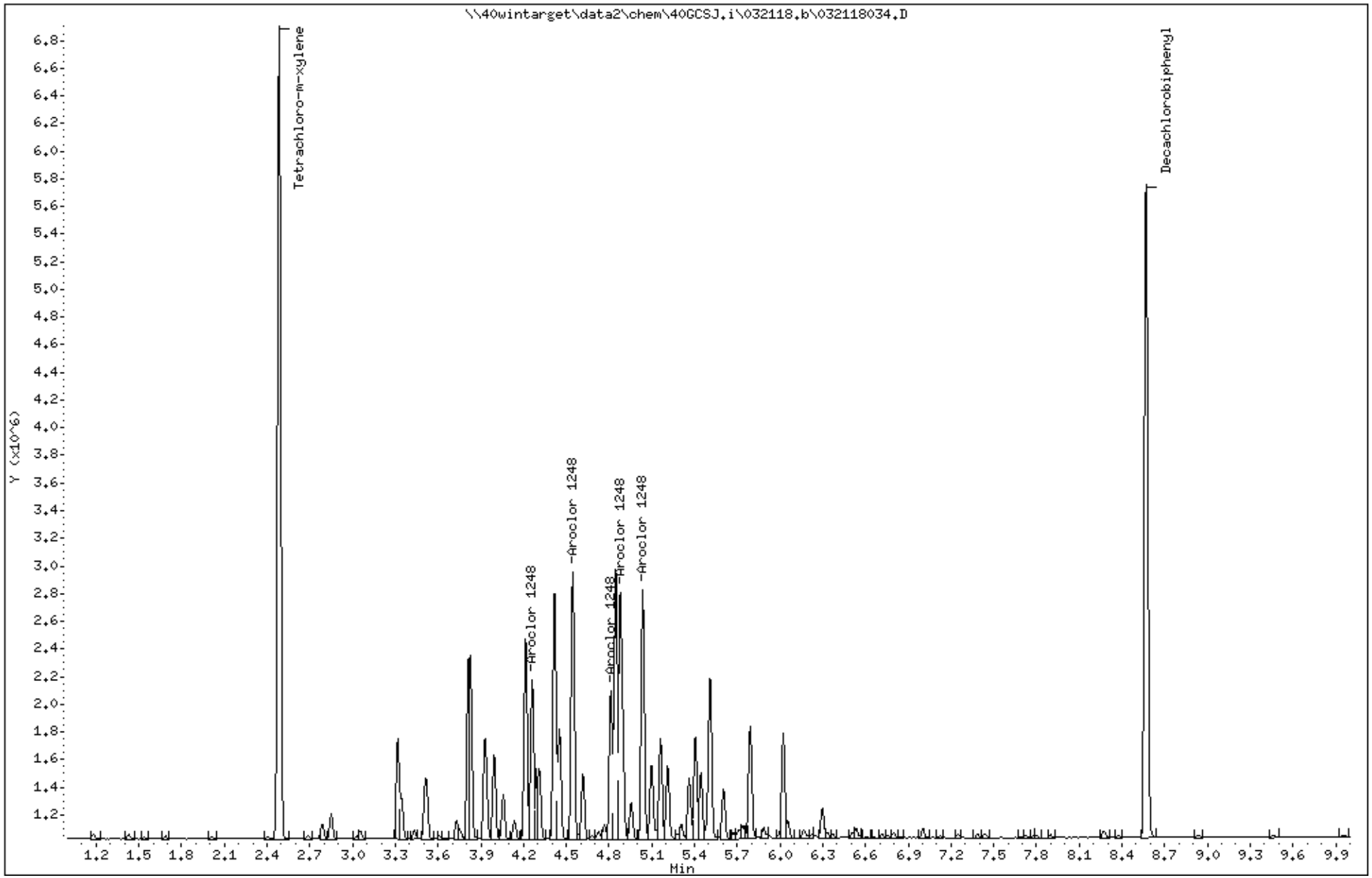
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

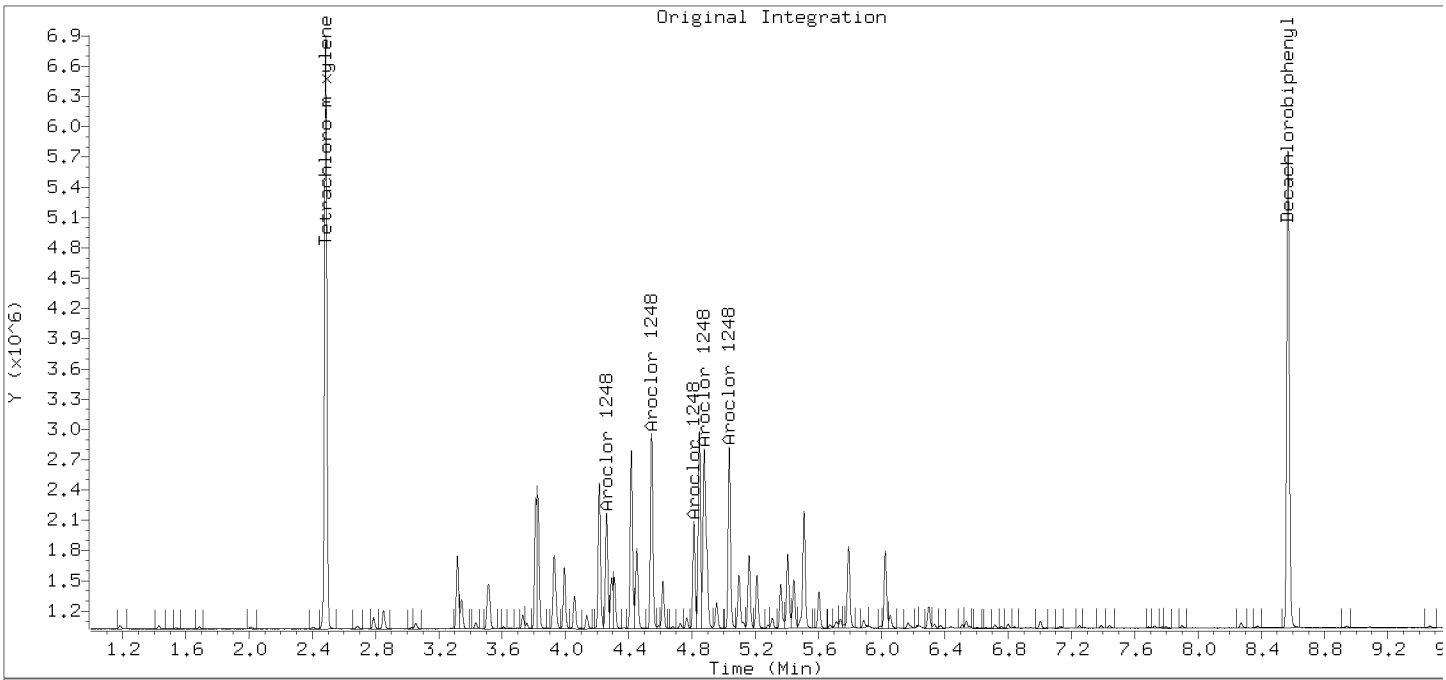
Operator: BLM

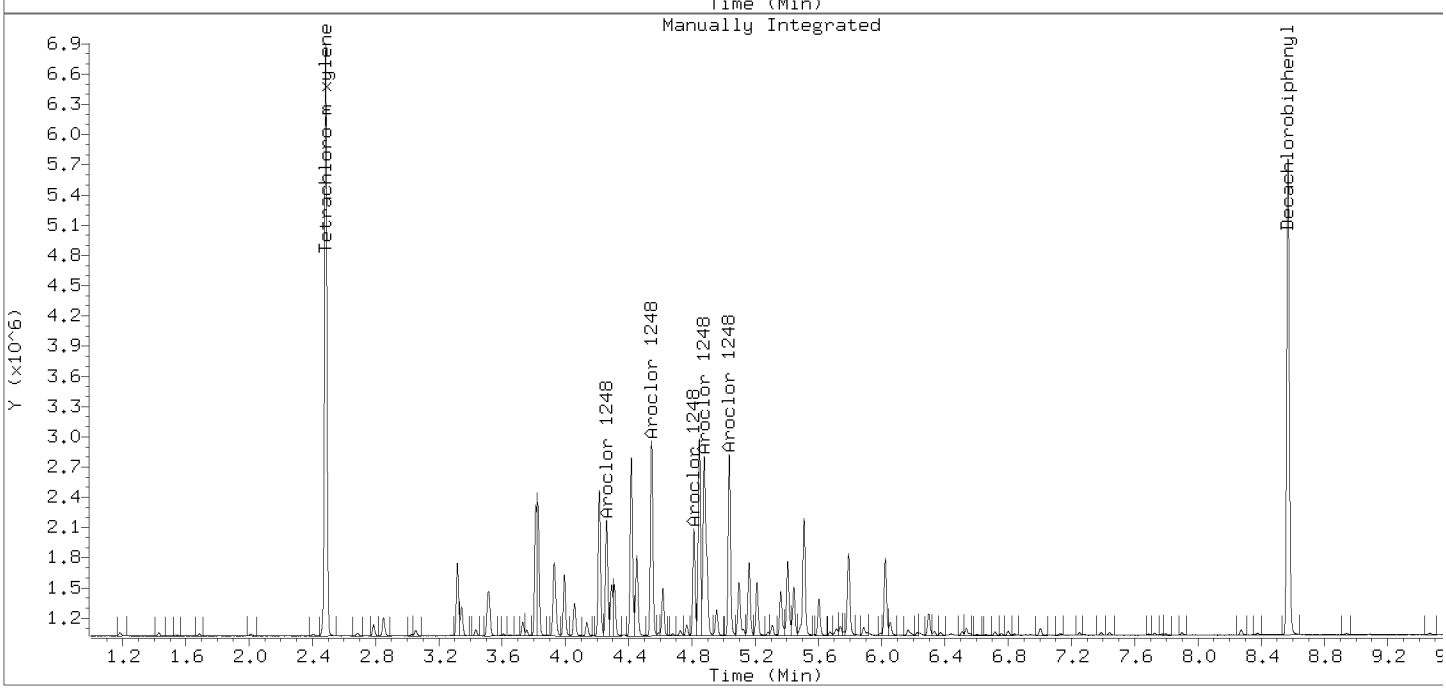
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118034.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 21-MAR-2018 21:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1209891	1218750	BA
Aroclor 1248	1209891	1218750	BA
Aroclor 1248	1209891	1218750	BA
Aroclor 1248	1209891	1218750	BA
Aroclor 1248	1209891	1218750	BA
Tetrachloro-m-xylene	6124972	6124972	
Decachlorobiphenyl	5552815	5552815	

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

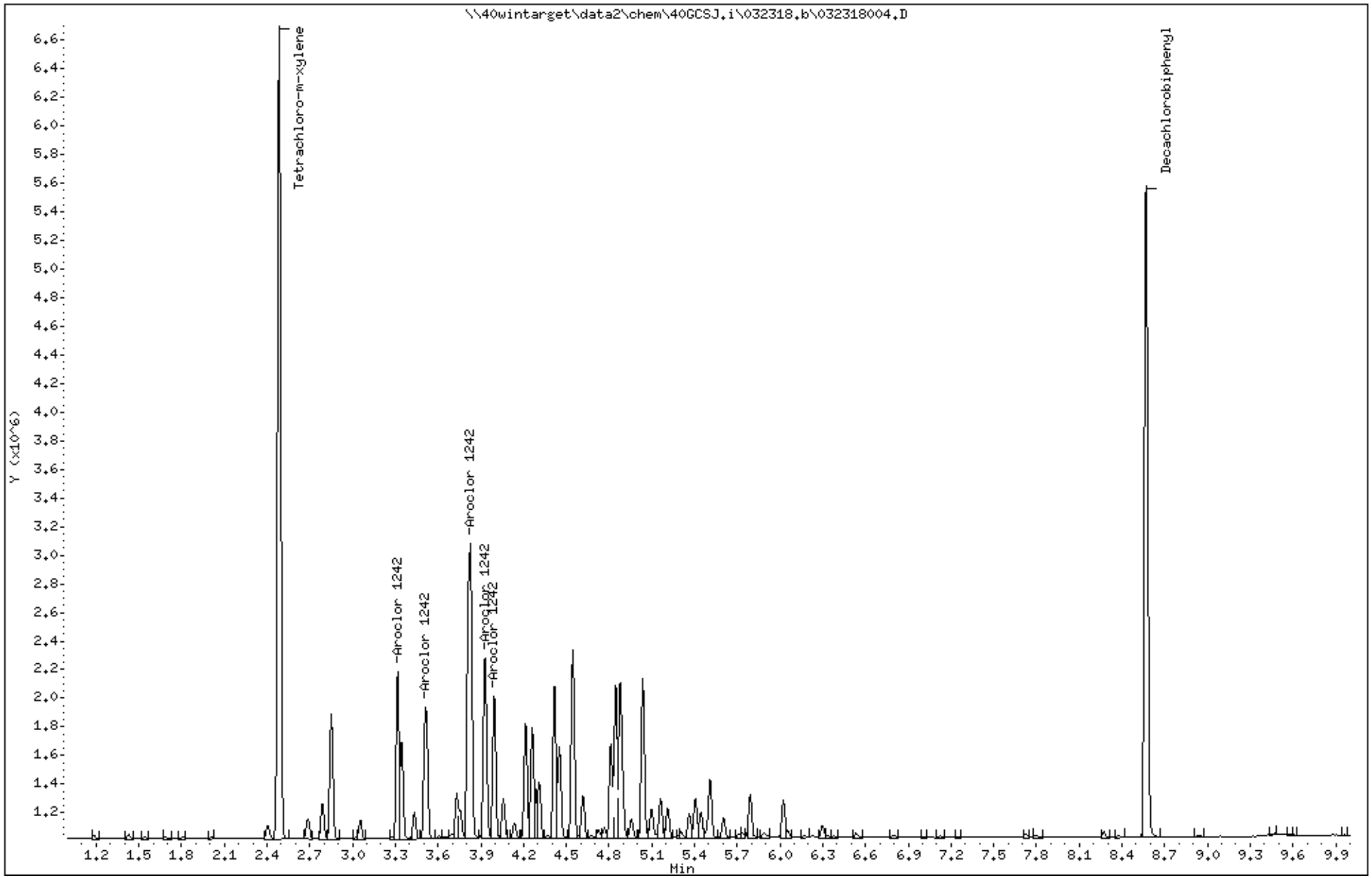
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

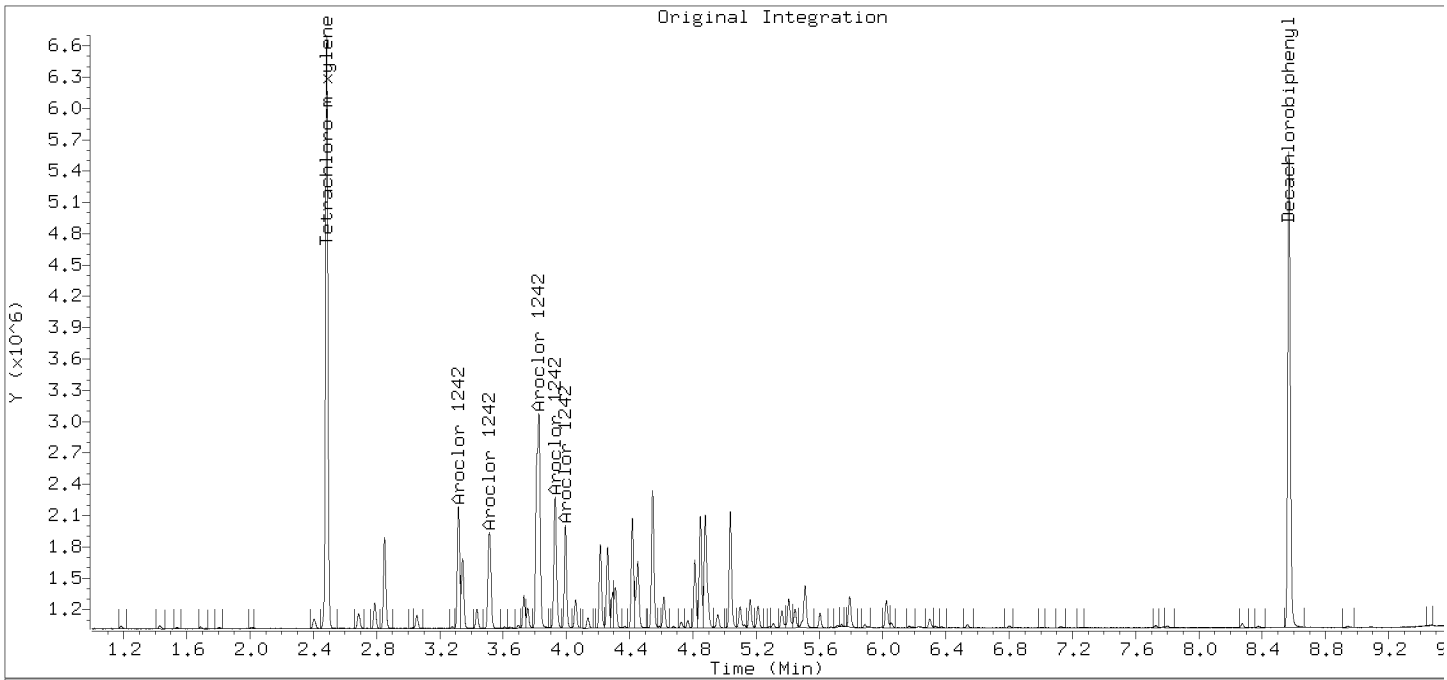
Operator: BLM

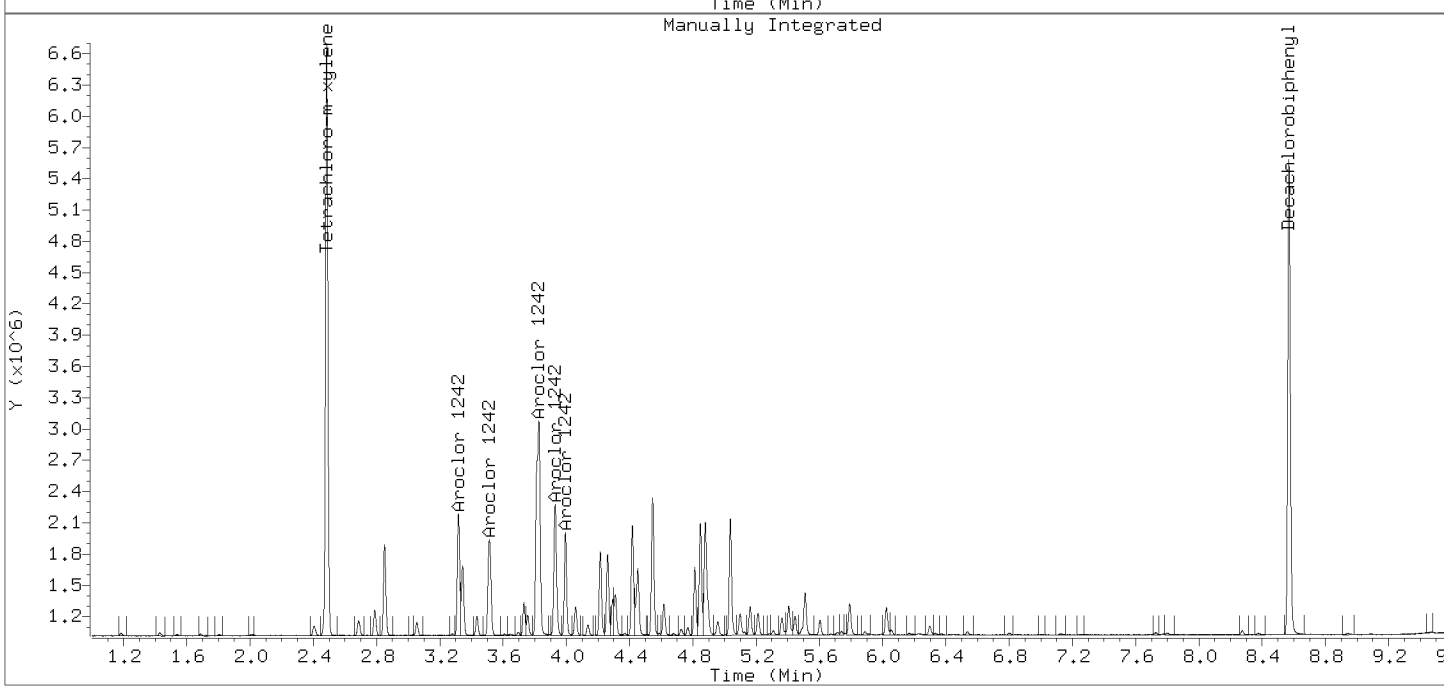
Column phase: ZB-1ms

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

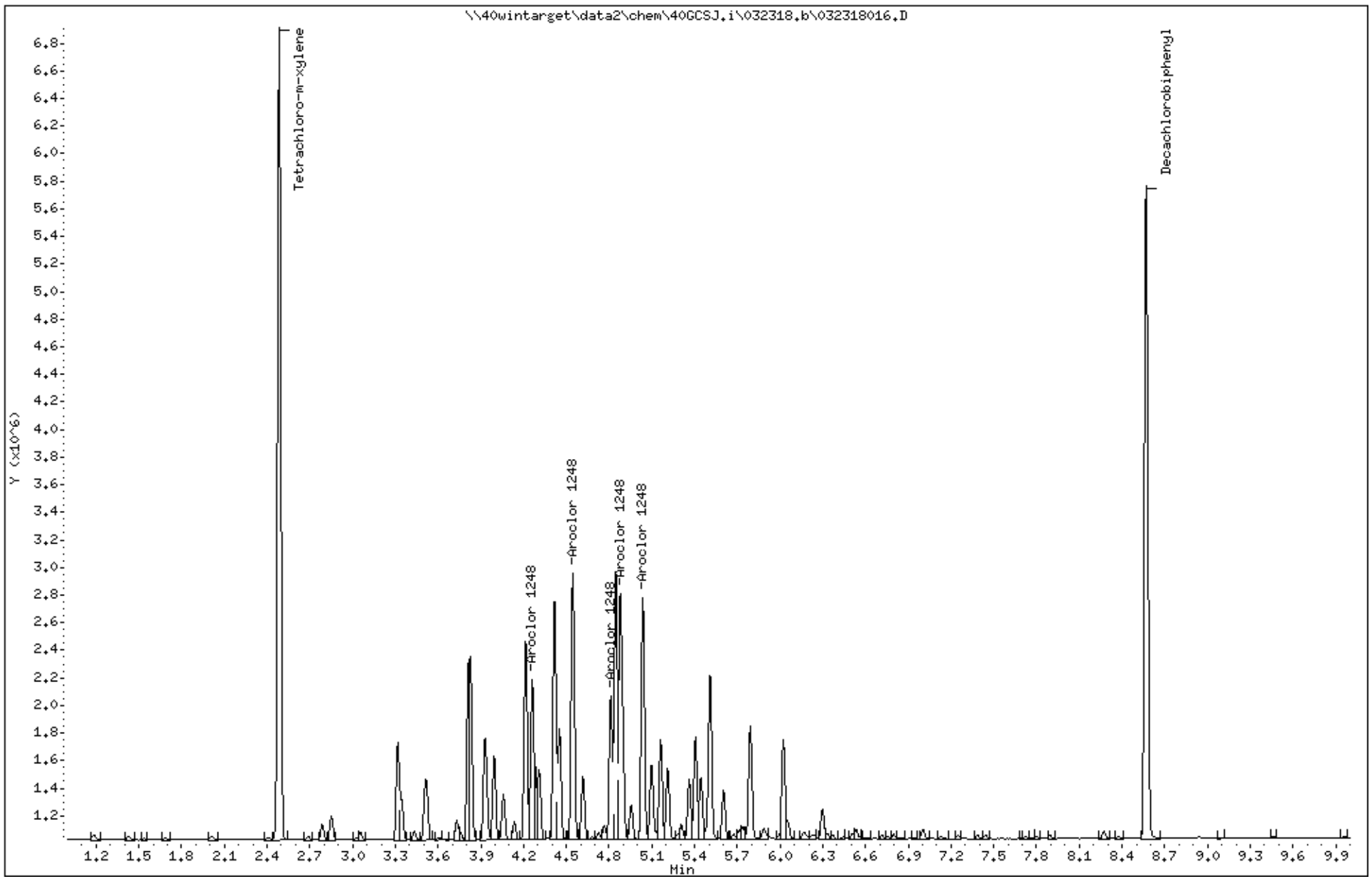
M - Compound response manually integrated.

Review Codes Legend

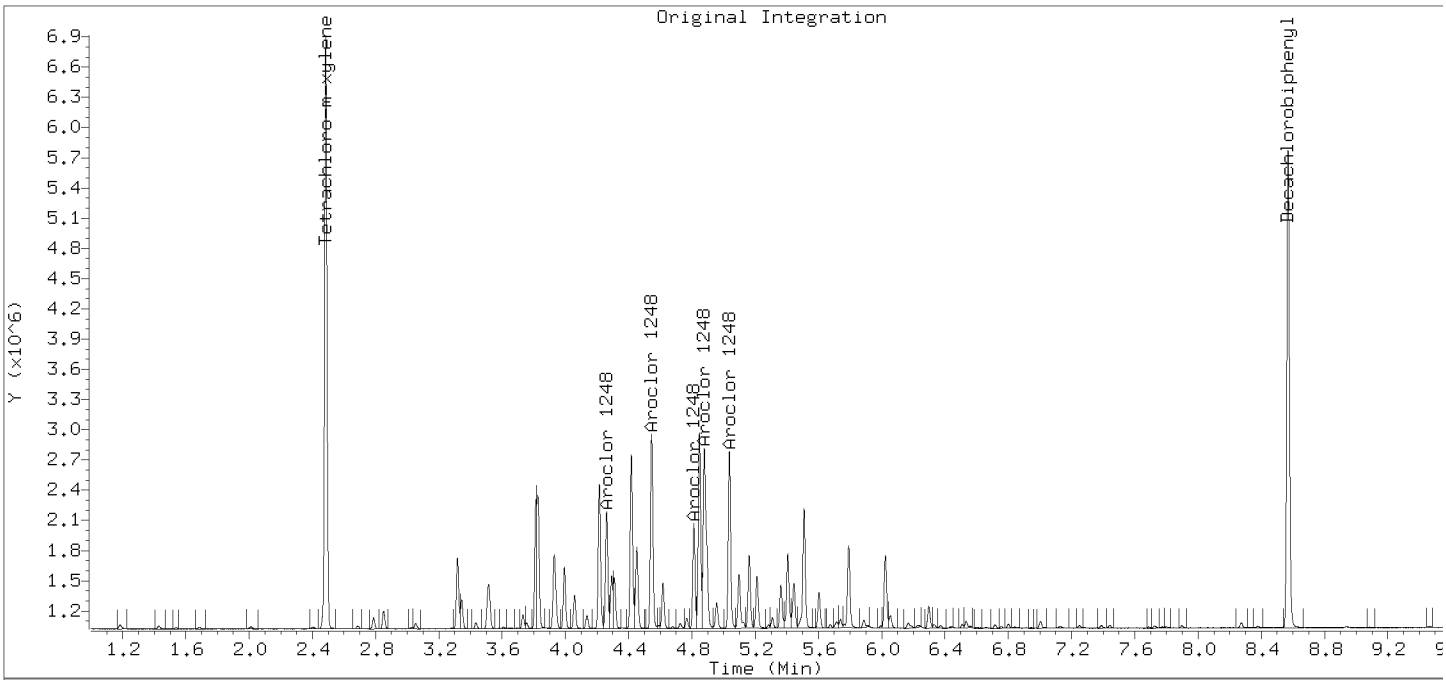
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

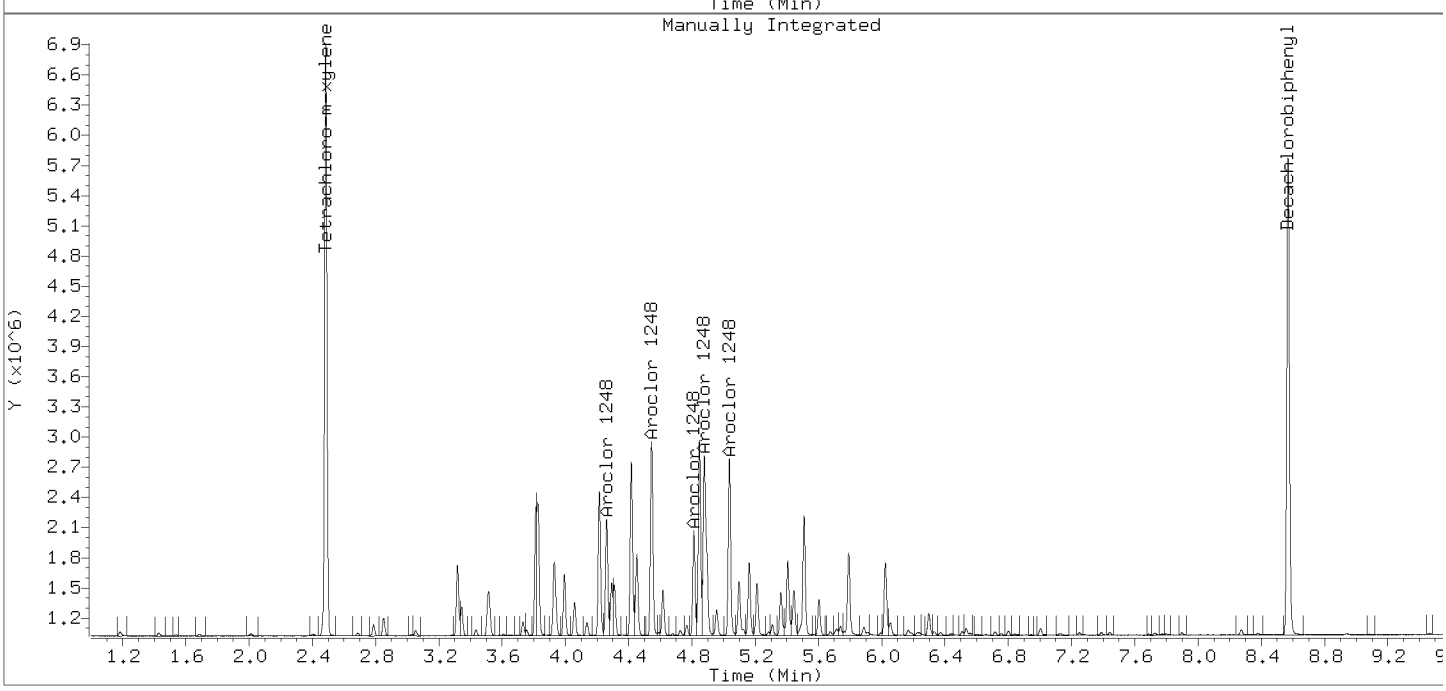
Data File: \\40wintarget\data2\chem\40GCSJ.i\032318.b\032318016.D
Date : 23-MAR-2018 16:35
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

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	

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.: 40151552

Date Extracted: 03/13/2018 07:38

Lab Sample ID: 1658254

Date Analyzed: 03/14/2018 13:44

Lab File ID: 031418.B\031418006.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\031418.b\031418006.D
Lab Smp Id: 1658254 Client Smp ID: MB
Inj Date : 14-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658254,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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
1.184	9308	9168	0.985	0.04		
1.426	13229	9984	0.755	0.06		
1.538	10968	9927	0.905	0.05		
2.485	9322527	9158044	0.982	49.40	$ 2 Tetrachloro-m-xylene	
2.787	19842	16132	0.813	0.10		
2.854	14749	10951	0.743	0.07		
4.049	11412	11989	1.051	0.06		
4.239	12234	11659	0.953	0.06		
4.420	10103	7444	0.737	0.05		
5.506	12536	9405	0.750	0.06		
5.792	14830	11542	0.778	0.07		
6.056	19989	13624	0.682	0.10		
6.300	14777	12555	0.850	0.07		
7.005	11590	9464	0.817	0.06		
7.125	20450	13890	0.679	0.10		
7.727	42265	36227	0.857	0.22		
7.803	31627	26512	0.838	0.16		
8.276	77820	71472	0.918	0.41		
8.382	22898	15893	0.694	0.12		
8.572	9139833	7852094	0.859	48.32	$ 12 Decachlorobiphenyl	
8.938	15536	12441	0.801	0.08		
9.469	31302	19141	0.611	0.16		
9.964	35242	23488	0.666	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	18915068	17373046		100.000	

Total unknown % area = 2.3

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418006.D
Lab Smp Id: 1658254 Client Smp ID: MB
Inj Date : 14-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658254,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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	9322527	0.07561	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).

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

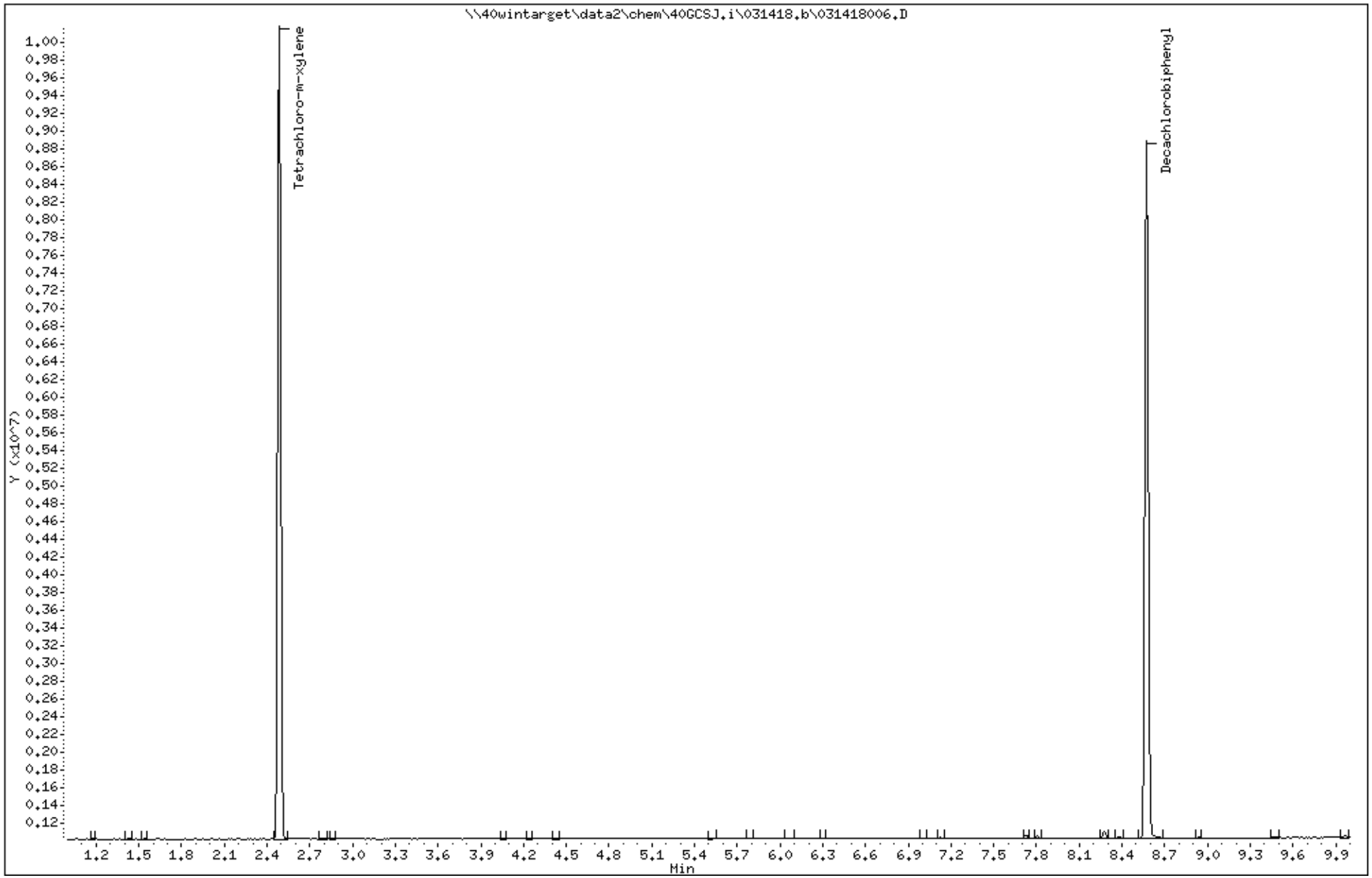
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.572	8.571	0.001	9139833	0.08342		42		

Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418006.D
Date : 14-MAR-2018 13:44
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1658254,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 14-MAR-2018 13:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658254

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	9322527	9322527	
Decachlorobiphenyl	9139833	9139833	

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.: 40151552

Date Extracted: 03/13/2018 07:38

Lab Sample ID: 1658255

Date Analyzed: 03/14/2018 14:00

Lab File ID: 031418.B\031418007.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)	232	
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\031418.b\031418007.D
Lab Smp Id: 1658255 Client Smp ID: MBLCS
Inj Date : 14-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658255,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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
1.767	9946	7433	0.747	0.02		
1.803	17693	14637	0.827	0.03		
2.404	111911	87457	0.781	0.24		
2.485	10488341	10397400	0.991	23.61	$ 2 Tetrachloro-m-xylene	
2.687	170402	142152	0.834	0.37		
2.790	209653	195891	0.934	0.46		
2.850	926104	857106	0.925	2.05		
3.055	115628	109822	0.950	0.25		
3.103	10592	6907	0.652	0.02		
3.277	23783	17688	0.744	0.05		
3.317	1181695	1113787	0.943	2.61	3 Aroclor 1242	BA
3.344	665653	631762	0.949	1.47		
3.434	186207	172651	0.927	0.41		
3.514	1157603	831922	0.719	2.56	3 Aroclor 1242	BA
3.697	34912	32671	0.936	0.07		
3.732	304043	304608	1.002	0.67		
3.756	196485	192148	0.978	0.43		
3.826	3337551	1956979	0.586	7.39	3 Aroclor 1242	BA
3.929	1423369	1184695	0.832	3.15	3 Aroclor 1242	BA
3.994	935105	919454	0.983	2.07	3 Aroclor 1242	BA
4.058	258971	236457	0.913	0.57		
4.136	103923	92474	0.890	0.23		
4.214	791632	760649	0.961	1.75		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	744052	738740	0.993	1.64	
4.293	303425	314392	1.036	0.67	
4.310	371058	337081	0.908	0.82	
4.369	26503	20717	0.782	0.05	
4.418	1046039	987604	0.944	2.31	
4.452	778452	577300	0.742	1.72	
4.546	1293913	1203273	0.930	2.86	
4.590	19786	18103	0.915	0.04	
4.617	296490	272037	0.918	0.65	
4.678	23183	16757	0.723	0.05	
4.728	66128	56825	0.859	0.14	
4.768	73265	66800	0.912	0.16	
4.813	604724	580382	0.960	1.33	
4.848	1064518	1039421	0.976	2.35	
4.878	1349776	1024261	0.759	2.99	
4.958	145182	115220	0.794	0.32	
5.037	1106774	1036097	0.936	2.45	
5.099	229188	178256	0.778	0.50	
5.163	263878	238330	0.903	0.58	
5.211	199502	171553	0.860	0.44	
5.309	48069	37998	0.790	0.10	
5.363	171461	150475	0.878	0.37	
5.408	287689	240408	0.836	0.63	
5.446	171215	152690	0.892	0.37	
5.511	460004	350202	0.761	1.01	
5.605	139233	117902	0.847	0.30	
5.675	15012	13326	0.888	0.03	
5.717	31085	23808	0.766	0.06	
5.740	34830	32214	0.925	0.07	
5.793	295008	248821	0.843	0.65	
5.889	43717	30083	0.688	0.09	
6.026	284789	216969	0.762	0.63	
6.171	30416	17725	0.583	0.06	
6.300	65116	55728	0.856	0.14	
6.334	16324	13350	0.818	0.03	
6.379	22429	12929	0.576	0.04	
6.512	13440	13494	1.004	0.02	
6.536	22696	17123	0.754	0.05	
6.801	17773	13249	0.745	0.03	
7.007	18694	16572	0.886	0.04	
7.124	13289	12322	0.927	0.02	
7.691	14721	9396	0.638	0.03	
7.729	50729	41436	0.817	0.11	
7.799	44103	29773	0.675	0.09	
8.276	89292	77692	0.870	0.19	
8.378	14689	13560	0.923	0.03	
8.572	10029384	8558329	0.853	22.21	$ 12 Decachlorobiphenyl
8.943	11416	8249	0.723	0.02	
9.961	13880	12395	0.893	0.03	
	45137541	39798117		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418007.D
Lab Smp Id: 1658255 Client Smp ID: MBLCS
Inj Date : 14-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658255,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 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			
2.485	2.484	0.001	10488341	0.08507	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1181695	0.46648	230	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1157603	0.45936	230	0.00- 20.00	97.96	BA
3.826	3.827	-0.001	3337551	0.46899	230	0.00- 20.00	282.44	BA
3.928	3.929	-0.001	1423368	0.46798	230	0.00- 20.00	120.45	BA
3.994	3.995	-0.001	935105	0.45665	230	0.00- 20.00	79.13	BA
Average of Peak Concentrations =					230			

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

8.572	8.571	0.001	10029383	0.09154	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\031418.b\031418007.D

Date : 14-MAR-2018 14:00

Client ID: MBLCS

Instrument: 40GCSJ.i

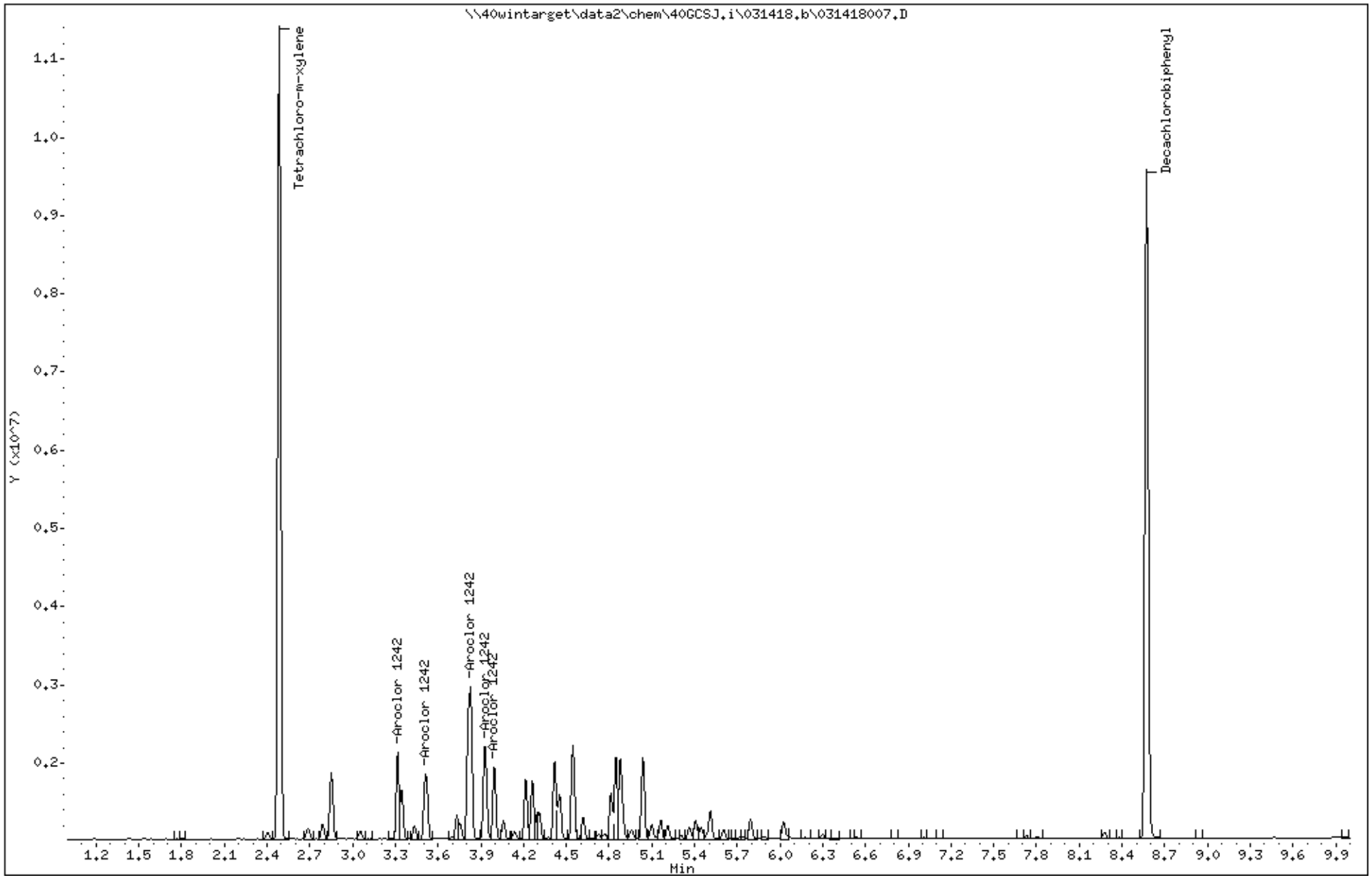
Sample Info: 1658255,

Volume Injected (uL): 1.0

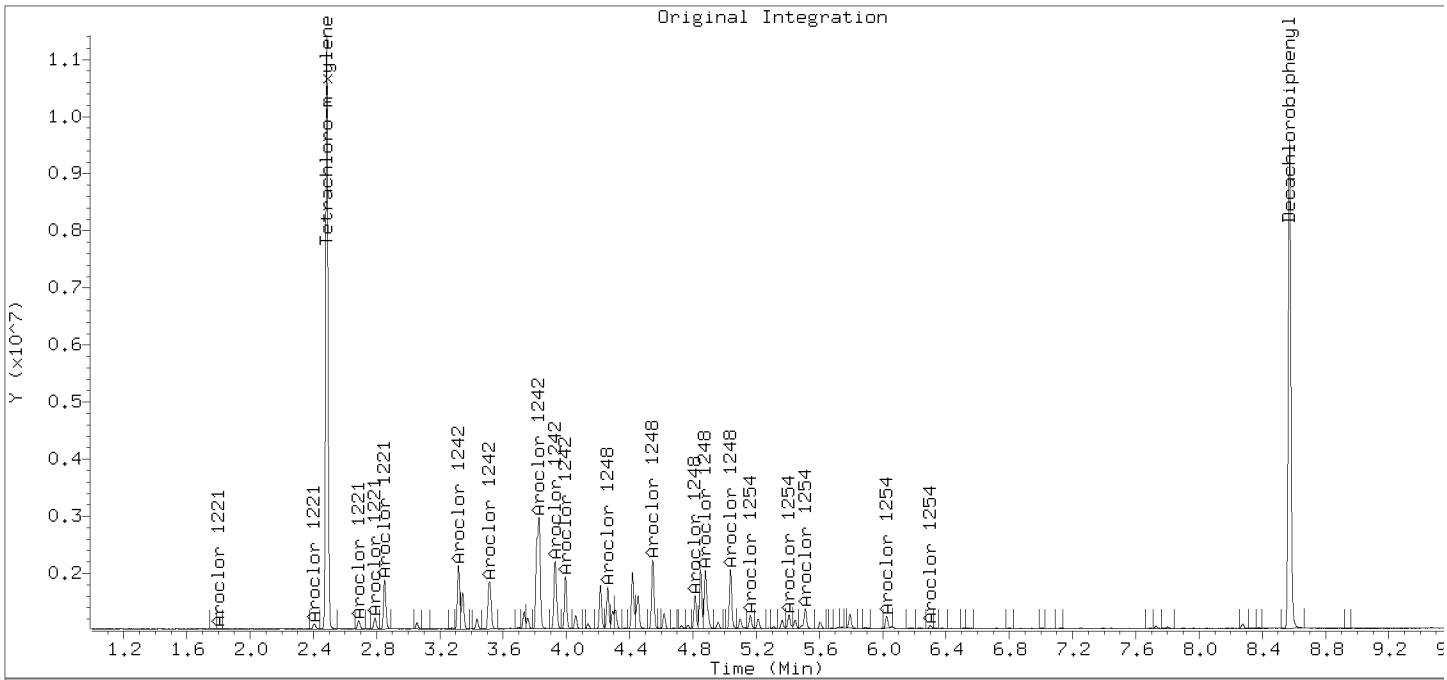
Operator: BLM

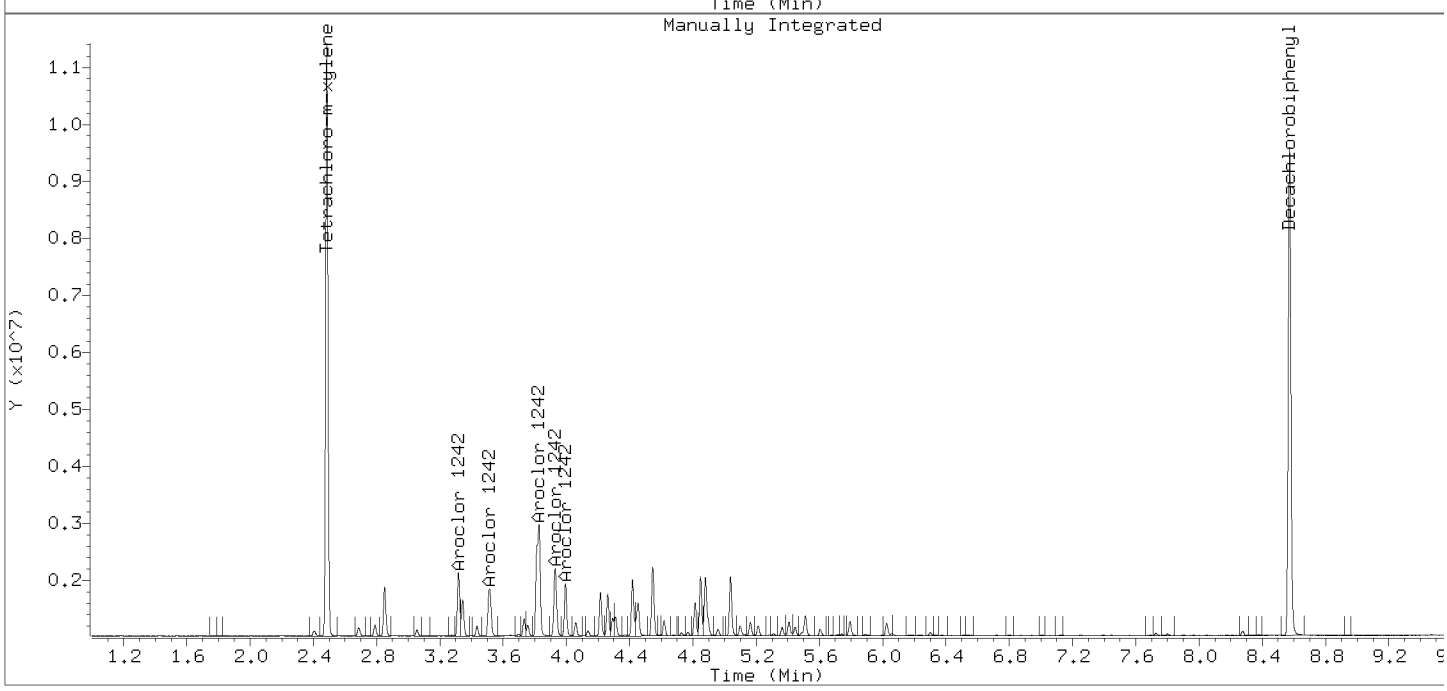
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 14-MAR-2018 14:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658255





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1177781	0	
Aroclor 1016	1177781	0	
Aroclor 1016	1177781	0	
Aroclor 1016	1177781	0	
Aroclor 1016	1177781	0	
Aroclor 1221	17693	0	
Aroclor 1221	17693	0	
Aroclor 1221	17693	0	
Aroclor 1221	17693	0	
Aroclor 1221	17693	0	
Aroclor 1232	918724	0	
Aroclor 1232	918724	0	
Aroclor 1232	918724	0	
Aroclor 1232	918724	0	

Aroclor 1232	918724	0	
Aroclor 1242	1177781	1181695	BA
Aroclor 1242	1177781	1181695	BA
Aroclor 1242	1177781	1181695	BA
Aroclor 1242	1177781	1181695	BA
Aroclor 1242	1177781	1181695	BA
Aroclor 1248	737221	0	
Aroclor 1248	737221	0	
Aroclor 1248	737221	0	
Aroclor 1248	737221	0	
Aroclor 1248	737221	0	
Aroclor 1254	250152	0	
Aroclor 1254	250152	0	
Aroclor 1254	250152	0	
Aroclor 1254	250152	0	
Aroclor 1254	250152	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10488341	10488341	
Decachlorobiphenyl	10029383	10029383	

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SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/13/2017 09:30
Matrix: Tissue SDG No.: 40151552
Date Extracted: 03/13/2018 07:38
Lab Sample ID: 1658256
Date Analyzed: 03/14/2018 14:15
Lab File ID: 031418.B\031418008.D
Initial wt/vol: 9.9946 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)	354	
12672-29-6	PCB-1248 (Aroclor 1248)	966	
11097-69-1	PCB-1254 (Aroclor 1254)	630	
11096-82-5	PCB-1260 (Aroclor 1260)	295	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418008.D
Lab Smp Id: 1658256 Client Smp ID: TD5-170612-01-BB-01
Inj Date : 14-MAR-2018 14:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658256 x3,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: MS
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	9.995	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.169	9432	7274	0.771	0.01		
2.409	88574	65760	0.742	0.11		
2.485	3653156	3554653	0.973	4.78	$ 2 Tetrachloro-m-xylene	
2.685	71824	54610	0.760	0.09		
2.790	89148	79545	0.892	0.11		
2.851	378192	343293	0.908	0.49		
2.977	49149	30046	0.611	0.06		
3.021	33463	29606	0.885	0.04		
3.056	75819	61578	0.812	0.09		
3.280	11635	11359	0.976	0.01		
3.318	482660	462137	0.957	0.63	3 Aroclor 1242	BA
3.344	305530	276229	0.904	0.40		
3.434	215803	194755	0.902	0.28		
3.518	592118	439843	0.743	0.77	3 Aroclor 1242	BA
3.644	48167	39839	0.827	0.06		
3.696	17652	15807	0.896	0.02		
3.732	301411	302456	1.003	0.39		
3.755	114605	106944	0.933	0.15		
3.827	2320655	1479794	0.638	3.04	3 Aroclor 1242	BA
3.929	571516	464149	0.812	0.74	3 Aroclor 1242	BA
3.994	492079	476610	0.969	0.64	3 Aroclor 1242	BA
4.058	154869	141809	0.916	0.20		
4.137	57565	48202	0.837	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	825470	685637	0.831	1.08	
4.261	1543910	1462714	0.947	2.02	6 Aroclor 1248
4.293	4223475	3528228	0.835	6.03	
4.348	51604	34996	0.678	0.06	
4.418	963598	903664	0.938	1.26	
4.452	635048	556046	0.876	0.83	
4.547	2078535	1972813	0.949	2.72	6 Aroclor 1248
4.589	415657	404462	0.973	0.54	
4.616	232110	212008	0.913	0.30	
4.680	245225	223160	0.910	0.32	
4.737	273115	222692	0.815	0.35	
4.768	863411	856463	0.992	1.13	
4.813	1933410	1837990	0.951	2.53	6 Aroclor 1248
4.848	695009	675173	0.971	0.91	
4.879	3627176	2338895	0.645	4.75	6 Aroclor 1248
4.957	628807	535598	0.852	0.82	
5.037	1382590	1277922	0.924	1.81	6 Aroclor 1248
5.101	1746522	1555152	0.890	2.28	
5.159	1543241	1287960	0.835	2.02	7 Aroclor 1254
5.212	1618554	1346322	0.832	2.12	
5.284	376994	369253	0.979	0.49	
5.308	701069	614701	0.877	0.91	
5.364	622554	572952	0.920	0.81	
5.407	1717433	1531513	0.892	2.25	7 Aroclor 1254
5.447	1186492	989923	0.834	1.55	
5.484	132107	147895	1.120	0.17	
5.510	2904176	2537462	0.874	3.80	7 Aroclor 1254
5.577	153258	147386	0.962	0.20	
5.604	412319	365077	0.885	0.54	
5.675	735931	702571	0.955	0.96	
5.710	502551	430664	0.857	0.65	
5.742	838431	663472	0.791	1.09	
5.791	3896727	3129979	0.803	5.10	
5.886	474867	372886	0.785	0.62	
5.932	584426	485611	0.831	0.76	
5.993	1099095	1009702	0.919	1.44	
6.024	1958567	1673169	0.854	2.56	7 Aroclor 1254
6.055	1447981	1206525	0.833	1.89	
6.169	579244	423090	0.730	0.75	
6.228	234209	265657	1.134	0.30	
6.241	392460	322725	0.822	0.51	
6.302	4090790	3373280	0.825	5.36	7 Aroclor 1254
6.334	351188	322889	0.919	0.46	
6.374	165951	141938	0.855	0.21	
6.433	668727	588856	0.881	0.87	
6.510	1378402	1217303	0.883	1.80	
6.536	656143	606643	0.925	0.85	
6.560	281804	273339	0.970	0.36	
6.604	147015	127125	0.865	0.19	
6.661	82877	77890	0.940	0.10	
6.718	406410	356205	0.876	0.53	
6.759	533766	493394	0.924	0.69	
6.802	538640	497937	0.924	0.70	
6.839	303138	241895	0.798	0.39	
6.912	66518	63510	0.955	0.08	
6.943	267491	251394	0.940	0.35	
7.006	1451424	1309718	0.902	1.90	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.034	126125	129227	1.025	0.16	
7.076	20250	20974	1.036	0.02	
7.120	67096	54745	0.816	0.08	
7.252	645701	596535	0.924	0.84	8 Aroclor 1260
7.282	222049	186629	0.840	0.29	
7.341	11988	12014	1.002	0.01	
7.390	694471	607033	0.874	0.91	
7.444	754690	664679	0.881	0.98	8 Aroclor 1260
7.554	49770	40449	0.813	0.06	
7.692	199640	186582	0.935	0.26	
7.727	194584	169248	0.870	0.25	
7.765	27452	19927	0.726	0.03	
7.805	112970	65096	0.576	0.14	
7.864	16030	12317	0.768	0.02	
7.901	654663	608779	0.930	0.85	8 Aroclor 1260
7.965	75195	50366	0.670	0.09	
8.049	107470	95375	0.887	0.14	
8.276	611904	560382	0.916	0.80	
8.380	17970	14036	0.781	0.02	
8.453	18806	14347	0.763	0.02	
8.573	3485435	2918204	0.837	4.56	$ 12 Decachlorobiphenyl
8.727	17268	17216	0.997	0.02	
8.938	15860	11742	0.740	0.02	
9.054	22620	15058	0.666	0.02	
9.168	95299	85953	0.902	0.12	
9.466	12185	9622	0.790	0.01	
9.699	11081	7824	0.706	0.01	
9.773	9793	6162	0.629	0.01	
9.965	11825	10378	0.878	0.01	
	76312854	65700621		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418008.D
Lab Smp Id: 1658256 Client Smp ID: TD5-170612-01-BB-01
Inj Date : 14-MAR-2018 14:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658256 x3,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: MS
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	9.995	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	3653156	0.02963	44			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	482659	0.19053	280	0.00- 20.00	100.00(RM)	BA
3.517	3.513	0.004	592117	0.23496	350	0.00- 20.00	122.68	BA
3.827	3.827	0.000	2320655	0.32610	490	0.00- 20.00	480.81	BA
3.928	3.929	-0.001	571515	0.18790	280	0.00- 20.00	118.41	BA
3.993	3.995	-0.002	492079	0.24030	360	0.00- 20.00	101.95	BA
Average of Peak Concentrations =					350			

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			
4.260	4.261	-0.001	1543909	0.65895	990	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	2078534	0.50081	750	0.00- 20.00	134.63	BA
4.813	4.812	0.001	1933409	0.95238	1400	0.00- 20.00	125.23	BA
4.879	4.879	0.000	3627176	0.72004	1100	0.00- 20.00	234.93	BA
5.036	5.038	-0.002	1382590	0.38528	580	0.00- 20.00	89.55	BA
Average of Peak Concentrations =					960			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1543240	0.29478	440	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1717432	0.39930	600	0.00- 20.00	111.29	CO
5.510	5.510	0.000	2904176	0.37396	560	0.00- 20.00	188.19	CO
6.024	6.027	-0.003	1958566	0.40220	600	0.00- 20.00	126.91	CO
6.302	6.299	0.003	4090789	0.62867	940	0.00- 20.00	265.08	CO
Average of Peak Concentrations =					630			
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
7.005	7.006	-0.001	1451424	0.14493	220	0.00- 20.00	35.48	BA
7.251	7.251	0.000	645700	0.13509	200	0.00- 20.00	15.78	BA
7.444	7.443	0.001	754690	0.25889	390	0.00- 20.00	18.45	BA
7.901	7.901	0.000	654663	0.24810	370	0.00- 20.00	16.00	BA
Average of Peak Concentrations =					300			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	3485434	0.03181	48			

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
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\031418.b\031418008.D

Date : 14-MAR-2018 14:15

Client ID: TD5-170612-01-BB-01

Instrument: 40GCSJ.i

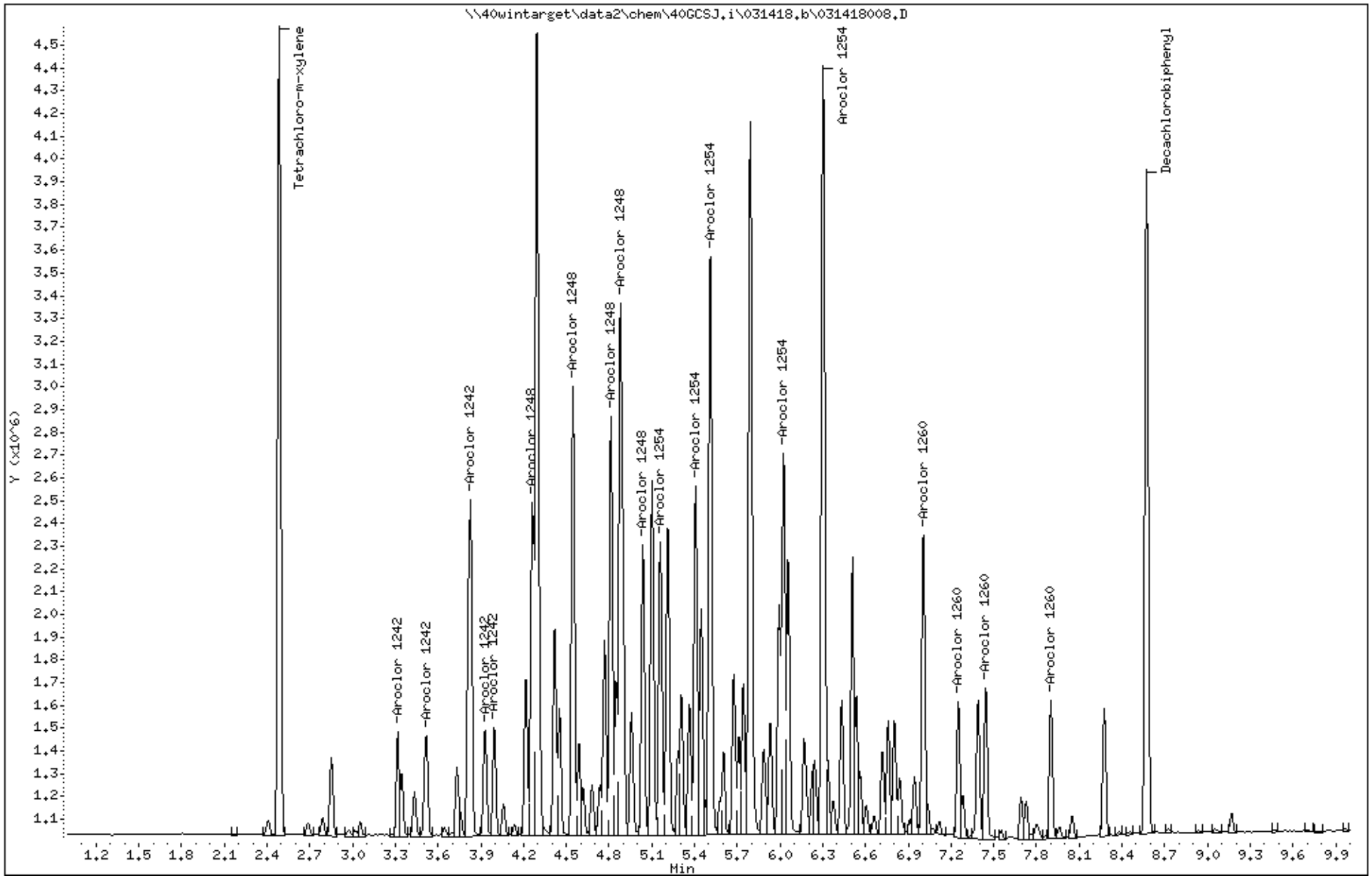
Sample Info: 1658256 x3,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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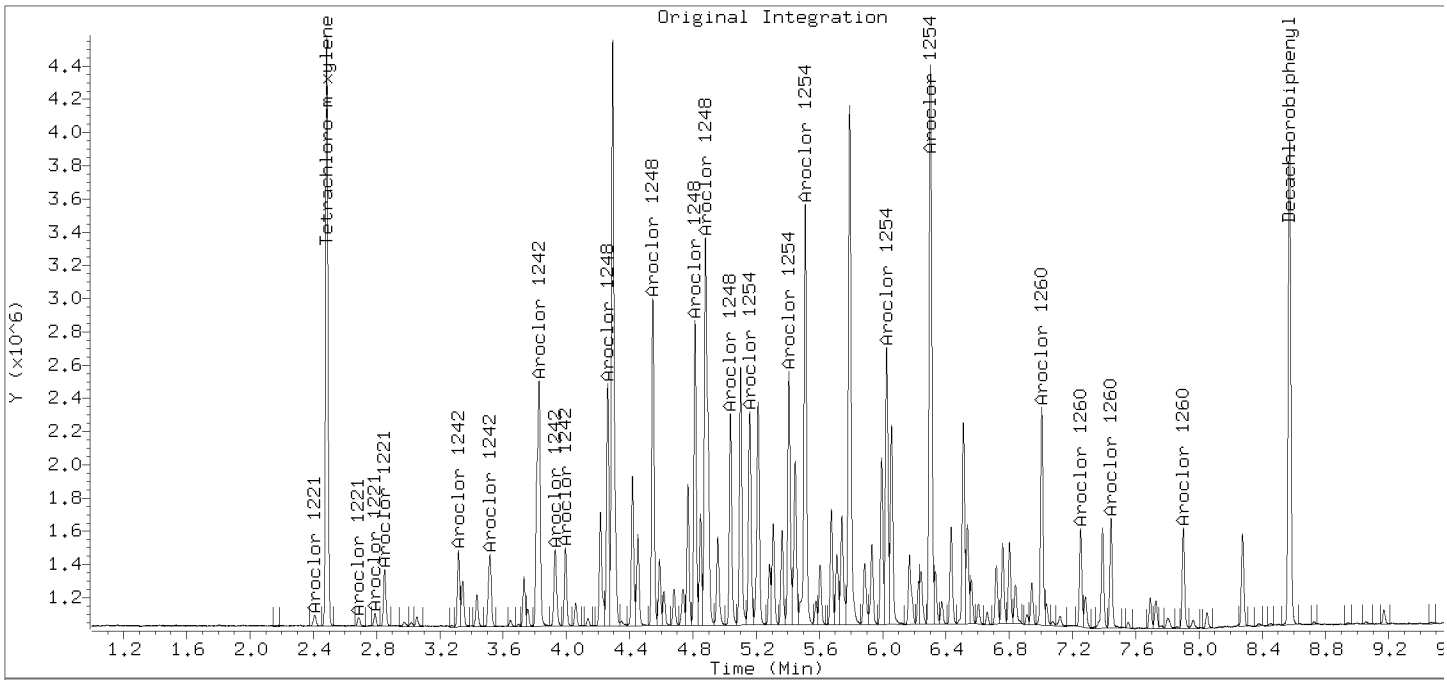
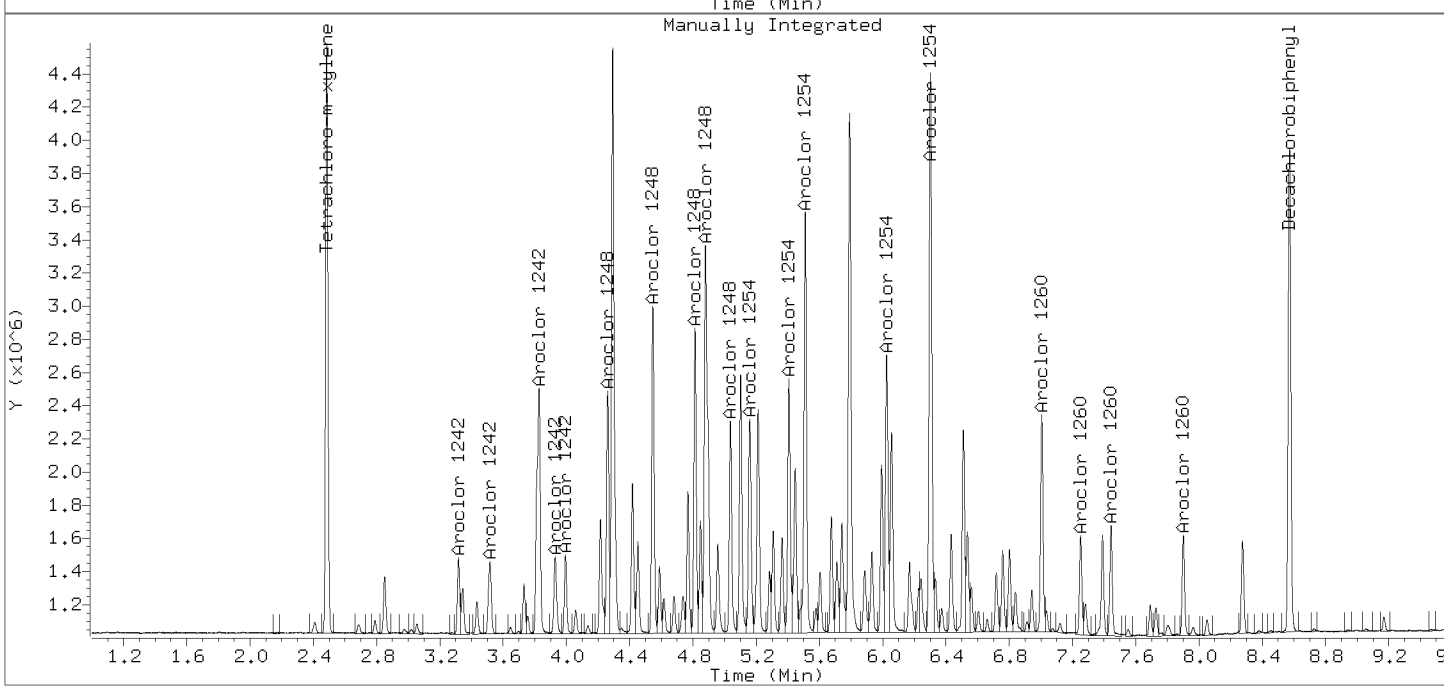
Injection Date: 14-MAR-2018 14:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658256





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	477130	0	
Aroclor 1016	477130	0	
Aroclor 1016	477130	0	
Aroclor 1016	477130	0	
Aroclor 1016	477130	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	368390	0	
Aroclor 1232	368390	0	
Aroclor 1232	368390	0	
Aroclor 1232	368390	0	

Aroclor 1232	368390	0	
Aroclor 1242	477130	482659	BA
Aroclor 1242	477130	482659	BA
Aroclor 1242	477130	482659	BA
Aroclor 1242	477130	482659	BA
Aroclor 1242	477130	482659	BA
Aroclor 1248	1532875	1543909	BA
Aroclor 1248	1532875	1543909	BA
Aroclor 1248	1532875	1543909	BA
Aroclor 1248	1532875	1543909	BA
Aroclor 1248	1532875	1543909	BA
Aroclor 1254	1525521	1543240	CO
Aroclor 1254	1525521	1543240	CO
Aroclor 1254	1525521	1543240	CO
Aroclor 1254	1525521	1543240	CO
Aroclor 1254	1525521	1543240	CO
Aroclor 1260	4067669	0	BA
Aroclor 1260	4067669	0	BA
Aroclor 1260	4067669	0	BA
Aroclor 1260	4067669	0	BA
Aroclor 1260	4067669	0	BA
Tetrachloro-m-xylene	3653156	3653156	
Decachlorobiphenyl	3485434	3485434	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/13/2017 09:30

Matrix: Tissue SDG No.: 40151552

Date Extracted: 03/13/2018 07:38

Lab Sample ID: 1658257

Date Analyzed: 03/14/2018 17:26

Lab File ID: 031418.B\031418020.D

Initial wt/vol: 10.0089 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)	853	
11097-69-1	PCB-1254 (Aroclor 1254)	628	
11096-82-5	PCB-1260 (Aroclor 1260)	299	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418020.D
Lab Smp Id: 1658257 Client Smp ID: TD5-170612-01-BB-01
Inj Date : 14-MAR-2018 17:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658257 x3,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20 QC Sample: FIELDDUP
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	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.162	11285	7219	0.640	0.01		
2.412	53747	41734	0.776	0.07		
2.485	3763186	3598585	0.956	5.38	$ 2 Tetrachloro-m-xylene	
2.788	18914	14568	0.770	0.02		
2.851	53320	44249	0.830	0.07		
2.975	33004	26054	0.789	0.04		
3.020	24082	26174	1.087	0.03		
3.057	21475	19806	0.922	0.03		
3.317	58285	51484	0.883	0.08		
3.345	66898	58845	0.880	0.09		
3.435	140873	137830	0.978	0.20		
3.520	184751	167978	0.909	0.26		
3.645	42633	38752	0.909	0.06		
3.731	214069	208896	0.976	0.30		
3.754	42326	43147	1.019	0.06		
3.827	1217536	868446	0.713	1.74		
3.995	172013	166515	0.968	0.24		
4.058	73874	58666	0.794	0.10		
4.137	20068	17734	0.884	0.02		
4.215	582856	455590	0.782	0.83		
4.262	1350766	1307099	0.968	1.93	6 Aroclor 1248	BA
4.293	4086504	3485097	0.853	5.84		
4.347	40691	28448	0.699	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	618572	594685	0.961	0.88	
4.454	379671	350263	0.923	0.54	
4.547	1725545	1615808	0.936	2.46	6 Aroclor 1248
4.589	417654	405764	0.972	0.59	
4.618	126828	118489	0.934	0.18	
4.680	242041	221618	0.916	0.34	
4.738	255430	228093	0.893	0.36	
4.768	867534	836398	0.964	1.24	
4.813	1823584	1666375	0.914	2.60	6 Aroclor 1248
4.848	340236	334343	0.983	0.48	
4.879	3317034	2119123	0.639	4.74	6 Aroclor 1248
4.957	588638	509300	0.865	0.84	
5.038	1061552	997834	0.940	1.51	6 Aroclor 1248
5.102	1710918	1497501	0.875	2.44	
5.160	1486205	1274472	0.858	2.12	7 Aroclor 1254
5.213	1596372	1349286	0.845	2.28	
5.284	380210	383934	1.010	0.54	
5.307	696554	610536	0.877	0.99	
5.363	587071	549755	0.936	0.83	
5.407	1680881	1517242	0.903	2.40	7 Aroclor 1254
5.447	1154411	943524	0.817	1.65	
5.482	129420	137447	1.062	0.18	
5.510	2828407	2543230	0.899	4.04	7 Aroclor 1254
5.577	156169	147044	0.942	0.22	
5.604	382834	351809	0.919	0.54	
5.675	739349	699386	0.946	1.05	
5.710	503473	435068	0.864	0.72	
5.741	852096	670471	0.787	1.21	
5.792	3961601	3181356	0.803	5.66	
5.885	502689	380467	0.757	0.71	
5.931	563548	488970	0.868	0.80	
5.994	1117860	1017988	0.911	1.59	
6.025	1992217	1700944	0.854	2.84	7 Aroclor 1254
6.056	1459526	1259326	0.863	2.08	
6.168	579391	408287	0.705	0.82	
6.228	256152	265092	1.035	0.36	
6.242	381669	331982	0.870	0.54	
6.302	4218449	3477777	0.824	6.52	7 Aroclor 1254
6.334	358976	339357	0.945	0.51	
6.375	161052	143939	0.894	0.23	
6.433	673233	577614	0.858	0.96	
6.510	1404885	1226004	0.873	2.00	
6.535	655886	624277	0.952	0.93	
6.561	289745	271477	0.937	0.41	
6.605	153102	136916	0.894	0.21	
6.662	82906	75875	0.915	0.11	
6.719	413423	363280	0.879	0.59	
6.759	536293	497277	0.927	0.76	
6.803	566815	525595	0.927	0.81	
6.840	307908	244337	0.794	0.44	
6.913	63225	62949	0.996	0.09	
6.944	282304	264338	0.936	0.40	
7.005	1493199	1320046	0.884	2.13	8 Aroclor 1260
7.036	137400	131454	0.957	0.19	
7.077	21404	21318	0.996	0.03	
7.122	63224	56811	0.899	0.09	
7.252	673762	613462	0.911	0.96	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	222191	200039	0.900	0.31	
7.389	692785	585244	0.845	0.99	
7.443	738571	636401	0.862	1.05	8 Aroclor 1260
7.551	47350	42555	0.899	0.06	
7.692	197682	181410	0.918	0.28	
7.729	207076	163833	0.791	0.29	
7.806	103420	63937	0.618	0.14	
7.901	671806	619043	0.921	0.96	8 Aroclor 1260
7.961	79745	50701	0.636	0.11	
8.048	120692	101488	0.841	0.17	
8.125	9642	6105	0.633	0.01	
8.251	12647	11609	0.918	0.01	
8.275	607365	568705	0.936	0.86	
8.381	23463	13751	0.586	0.03	
8.454	20162	16130	0.800	0.02	
8.508	15132	11848	0.783	0.02	
8.572	3700139	3095131	0.836	5.29	$ 12 Decachlorobiphenyl
8.638	15813	10799	0.683	0.02	
8.728	16675	15376	0.922	0.02	
9.058	28350	15358	0.542	0.04	
9.171	87706	75974	0.866	0.12	
9.703	10296	9805	0.952	0.01	
	69922395	60485471		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031418.b\031418020.D
Lab Smp Id: 1658257 Client Smp ID: TD5-170612-01-BB-01
Inj Date : 14-MAR-2018 17:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658257 x3,
Misc Info : 17523,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031418.b\pcba030618.m
Meth Date : 02-Apr-2018 11:46 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20 QC Sample: FIELDDUP
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	10.009	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	3763185	0.03052	46			

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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			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1350765	0.57652	860	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1725545	0.41576	620	0.00- 20.00	127.75	BA
4.813	4.812	0.001	1823584	0.89828	1300	0.00- 20.00	135.00	BA
4.879	4.879	0.000	3317034	0.65848	990	0.00- 20.00	245.57	BA
5.037	5.038	-0.001	1061551	0.29582	440	0.00- 20.00	78.59	BA
Average of Peak Concentrations =					850			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1486205	0.28388	420	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1680881	0.39081	580	0.00- 20.00	113.10	BA
5.509	5.510	-0.001	2828407	0.36420	540	0.00- 20.00	190.31	BA
6.024	6.027	-0.003	1992217	0.40911	610	0.00- 20.00	134.05	BA
6.302	6.299	0.003	4218449	0.64828	970	0.00- 20.00	283.84	BA
Average of Peak Concentrations =					630			
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
7.005	7.006	-0.001	1493198	0.14911	220	0.00- 20.00	35.40	BA
7.252	7.251	0.001	673761	0.14096	210	0.00- 20.00	15.97	BA
7.442	7.443	-0.001	738571	0.25336	380	0.00- 20.00	17.51	BA
7.901	7.901	0.000	671805	0.25459	380	0.00- 20.00	15.93	BA
Average of Peak Concentrations =					300			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3700138	0.03377	51			

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\031418.b\031418020.D

Date : 14-MAR-2018 17:26

Client ID: TD5-170612-01-BB-01

Instrument: 40GCSJ.i

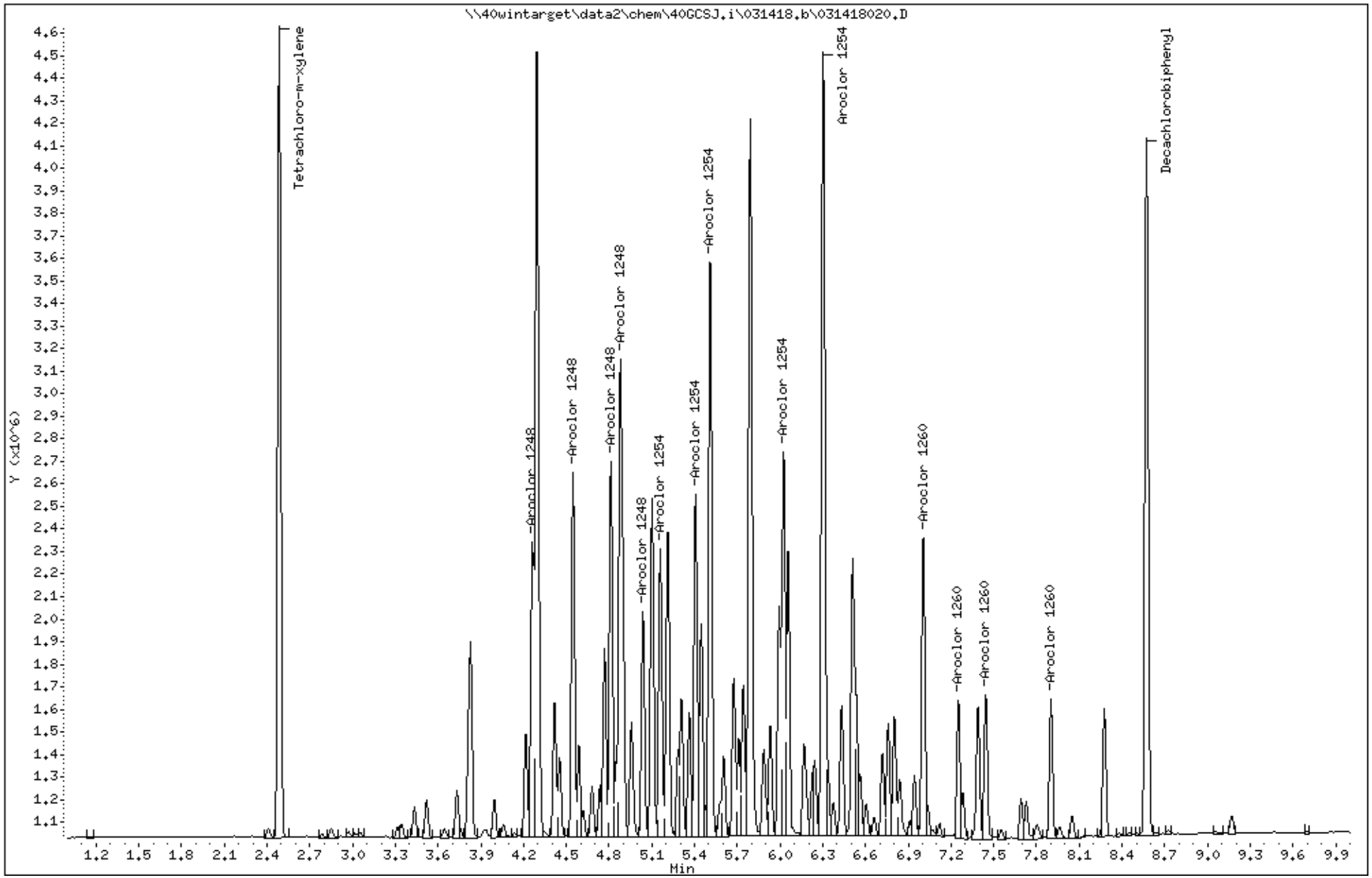
Sample Info: 1658257 x3,

Volume Injected (uL): 1.0

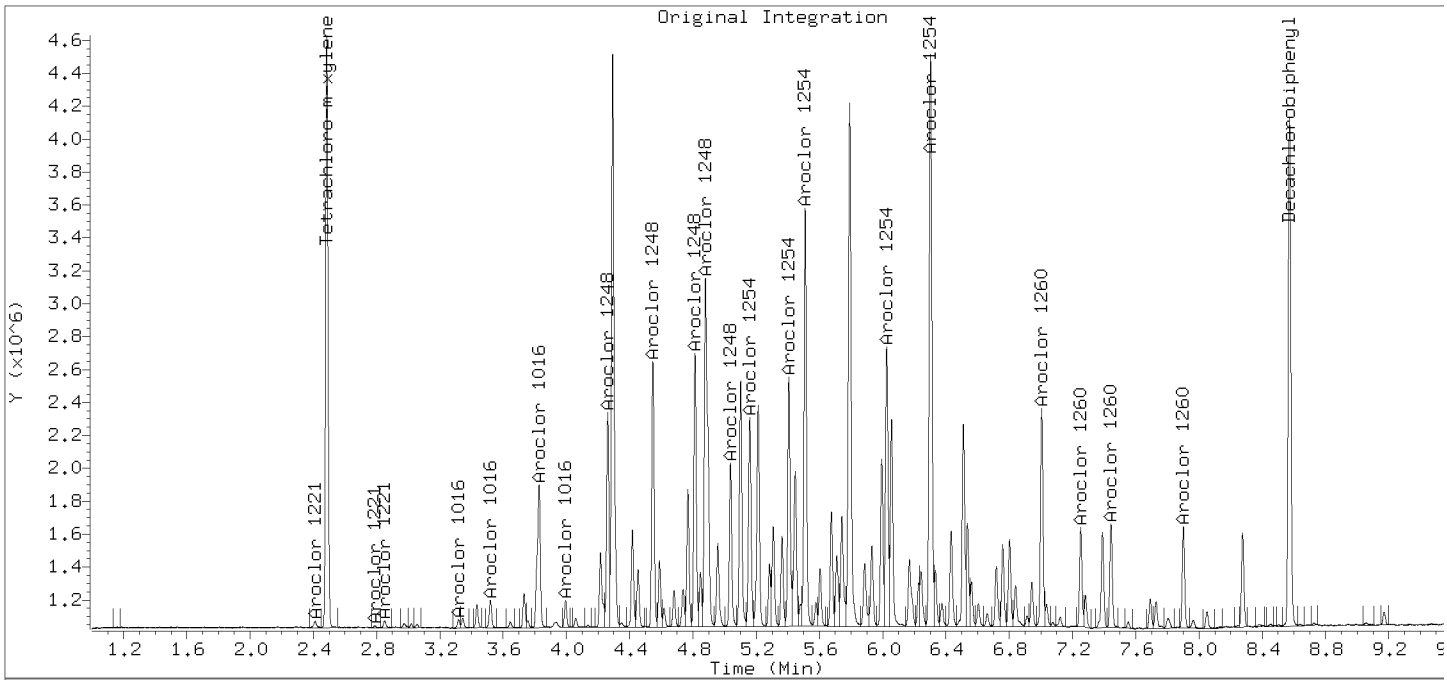
Operator: BLM

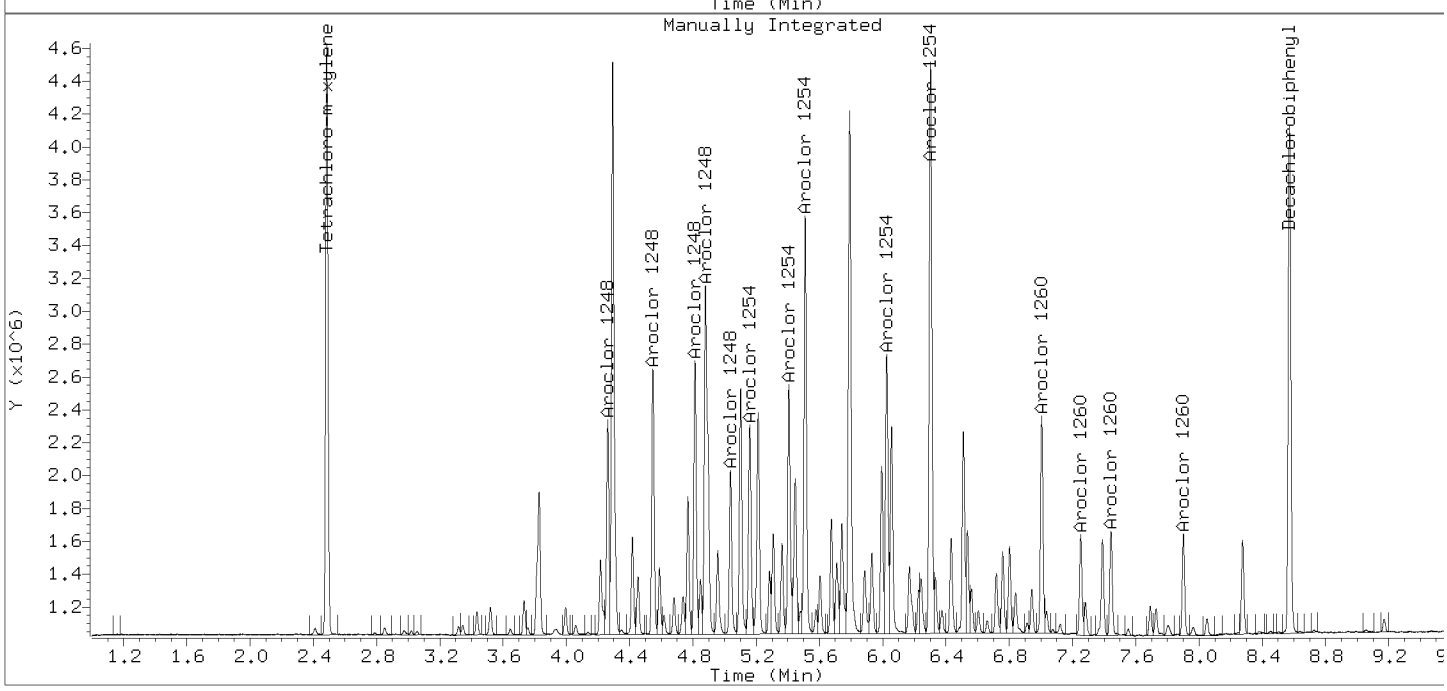
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031418.b/031418020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 14-MAR-2018 17:26 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658257





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	58285	0	
Aroclor 1016	58285	0	
Aroclor 1016	58285	0	
Aroclor 1016	58285	0	
Aroclor 1016	58285	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	1342942	1350765	BA
Aroclor 1248	1342942	1350765	BA
Aroclor 1248	1342942	1350765	BA
Aroclor 1248	1342942	1350765	BA
Aroclor 1248	1342942	1350765	BA
Aroclor 1254	1477390	1486205	BA
Aroclor 1254	1477390	1486205	BA
Aroclor 1254	1477390	1486205	BA
Aroclor 1254	1477390	1486205	BA
Aroclor 1254	1477390	1486205	BA
Aroclor 1260	4221181	0	BA
Aroclor 1260	4221181	0	BA
Aroclor 1260	4221181	0	BA
Aroclor 1260	4221181	0	BA
Aroclor 1260	4221181	0	BA
Tetrachloro-m-xylene	3763185	3763185	
Decachlorobiphenyl	3700138	3700138	

==========

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.: 40151552

Date Extracted: 03/20/2018 07:17

Lab Sample ID: 1661057

Date Analyzed: 03/21/2018 13:38

Lab File ID: 032118.B\032118006.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\032118.b\032118006.D
Lab Smp Id: 1661057 Client Smp ID: MB
Inj Date : 21-MAR-2018 13:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661057,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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
1.426	13764	8946	0.650	0.07		
1.538	10008	7828	0.782	0.05		
1.685	10612	9950	0.938	0.05		
2.197	77802	45839	0.589	0.40		
2.484	9262440	8840934	0.954	47.84	$ 2 Tetrachloro-m-xylene	
2.786	15910	14973	0.941	0.08		
2.857	32059	20214	0.631	0.16		
2.924	11582	10018	0.865	0.05		
7.122	11647	10232	0.879	0.06		
7.727	43357	38213	0.881	0.22		
7.801	40364	30423	0.754	0.20		
8.273	82988	70787	0.853	0.42		
8.570	9746022	8169987	0.838	50.40	$ 12 Decachlorobiphenyl	
	19358555	17278344		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118006.D
Lab Smp Id: 1661057 Client Smp ID: MB
Inj Date : 21-MAR-2018 13:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661057,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	9262440	0.07512	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).

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

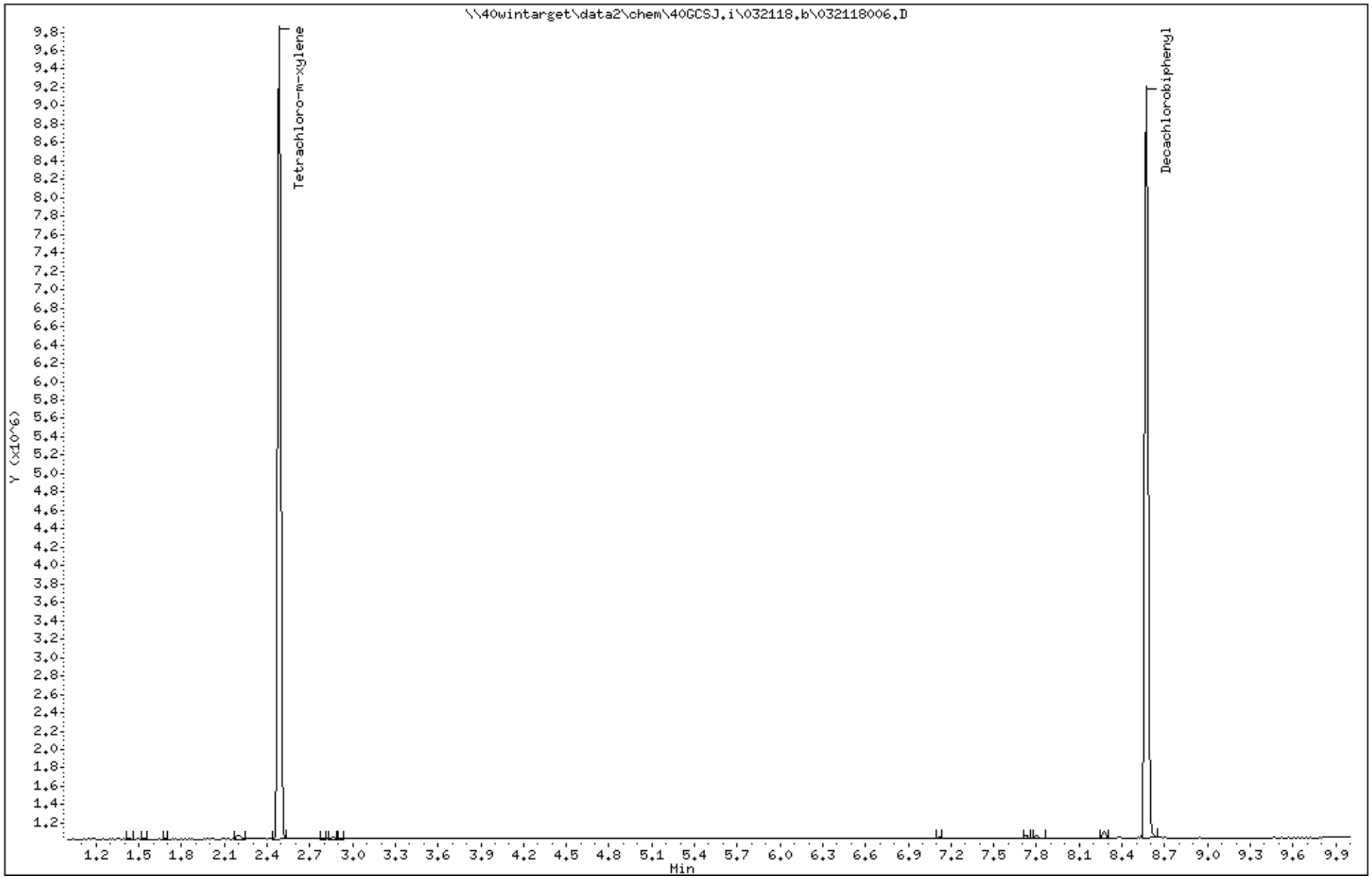
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9746022	0.08896		44		

Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118006.D
Date : 21-MAR-2018 13:38
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1661057,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 13:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1661057

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	9262440	9262440	
Decachlorobiphenyl	9746022	9746022	

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.: 40151552

Date Extracted: 03/20/2018 07:17

Lab Sample ID: 1661058

Date Analyzed: 03/21/2018 13:54

Lab File ID: 032118.B\032118007.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)	225	
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\032118.b\032118007.D
Lab Smp Id: 1661058 Client Smp ID: MBLCS
Inj Date : 21-MAR-2018 13:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661058,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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
1.801	16915	13203	0.781	0.03		
2.198	47705	37451	0.785	0.11		
2.406	103688	81928	0.790	0.23		
2.485	9596953	9247805	0.964	22.13	$ 2 Tetrachloro-m-xylene	
2.686	162900	130695	0.802	0.37		
2.790	195985	186227	0.950	0.45		
2.850	884983	791911	0.895	2.04		
2.917	19485	11185	0.574	0.04		
3.055	111763	101442	0.908	0.25		
3.279	20886	17818	0.853	0.04		
3.318	1131713	1060182	0.937	2.61	3 Aroclor 1242	BA
3.344	651080	601896	0.924	1.50		
3.434	177528	166569	0.938	0.40		
3.514	1120019	799037	0.713	2.58	3 Aroclor 1242	BA
3.647	21322	12363	0.580	0.04		
3.696	32000	31293	0.978	0.07		
3.732	293332	289950	0.988	0.67		
3.756	191538	185364	0.968	0.44		
3.827	3247684	1873848	0.577	7.49	3 Aroclor 1242	BA
3.929	1385433	1162116	0.839	3.19	3 Aroclor 1242	BA
3.994	909317	856658	0.942	2.09	3 Aroclor 1242	BA
4.059	248794	226496	0.910	0.57		
4.136	103970	90616	0.872	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	761521	717389	0.942	1.75	
4.261	718978	681148	0.947	1.65	
4.293	305751	301828	0.987	0.70	
4.310	352420	334823	0.950	0.81	
4.370	26543	20541	0.774	0.06	
4.417	1012126	934570	0.923	2.33	
4.451	767703	567343	0.739	1.77	
4.546	1262969	1164873	0.922	2.91	
4.592	17257	18551	1.075	0.03	
4.617	292722	264555	0.904	0.67	
4.678	21619	17313	0.801	0.04	
4.728	63334	54408	0.859	0.14	
4.768	71668	65315	0.911	0.16	
4.813	585624	562676	0.961	1.35	
4.848	1042989	986615	0.946	2.40	
4.879	1310543	988671	0.754	3.02	
4.958	146295	113428	0.775	0.33	
5.037	1088037	993034	0.913	2.50	
5.098	220679	169823	0.770	0.50	
5.162	261797	229039	0.875	0.60	
5.213	188824	170549	0.903	0.43	
5.280	15363	15999	1.041	0.03	
5.309	45458	39115	0.860	0.10	
5.362	166769	140943	0.845	0.38	
5.406	271104	230305	0.850	0.62	
5.446	174724	148668	0.851	0.40	
5.510	451205	339403	0.752	1.04	
5.605	133671	116676	0.873	0.30	
5.675	19991	13450	0.673	0.04	
5.713	26741	21469	0.803	0.06	
5.740	35793	31158	0.871	0.08	
5.791	284348	233245	0.820	0.65	
5.887	44654	27861	0.624	0.10	
6.023	238587	203685	0.854	0.55	
6.057	44915	36778	0.819	0.10	
6.169	27257	17062	0.626	0.06	
6.243	13660	10852	0.794	0.03	
6.300	56730	51115	0.901	0.13	
6.506	12282	11503	0.937	0.02	
6.537	22293	17291	0.776	0.05	
6.798	14884	11320	0.761	0.03	
7.003	24481	16677	0.681	0.05	
7.121	27800	16291	0.586	0.06	
7.253	10121	8115	0.802	0.02	
7.728	42430	38839	0.915	0.09	
7.798	29663	25822	0.871	0.06	
8.276	80031	73619	0.920	0.18	
8.375	11174	9680	0.866	0.02	
8.570	9820012	8365197	0.852	22.99	$ 12 Decachlorobiphenyl
8.942	9562	8965	0.938	0.02	
9.465	10073	7001	0.695	0.02	
	43360169	37620649		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118007.D
Lab Smp Id: 1661058 Client Smp ID: MBLCS
Inj Date : 21-MAR-2018 13:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661058,
Misc Info : 17555,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032118.b\pcba030618.m
Meth Date : 03-Apr-2018 09:17 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	9596953	0.07784	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1131712	0.44675	220	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1120019	0.44445	220	0.00- 20.00	98.97	BA
3.826	3.827	-0.001	3247684	0.45636	230	0.00- 20.00	286.97	BA
3.928	3.929	-0.001	1385432	0.45550	230	0.00- 20.00	122.42	BA
3.993	3.995	-0.002	909316	0.44406	220	0.00- 20.00	80.35	BA
Average of Peak Concentrations =					220			

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	9820012	0.08963	45	

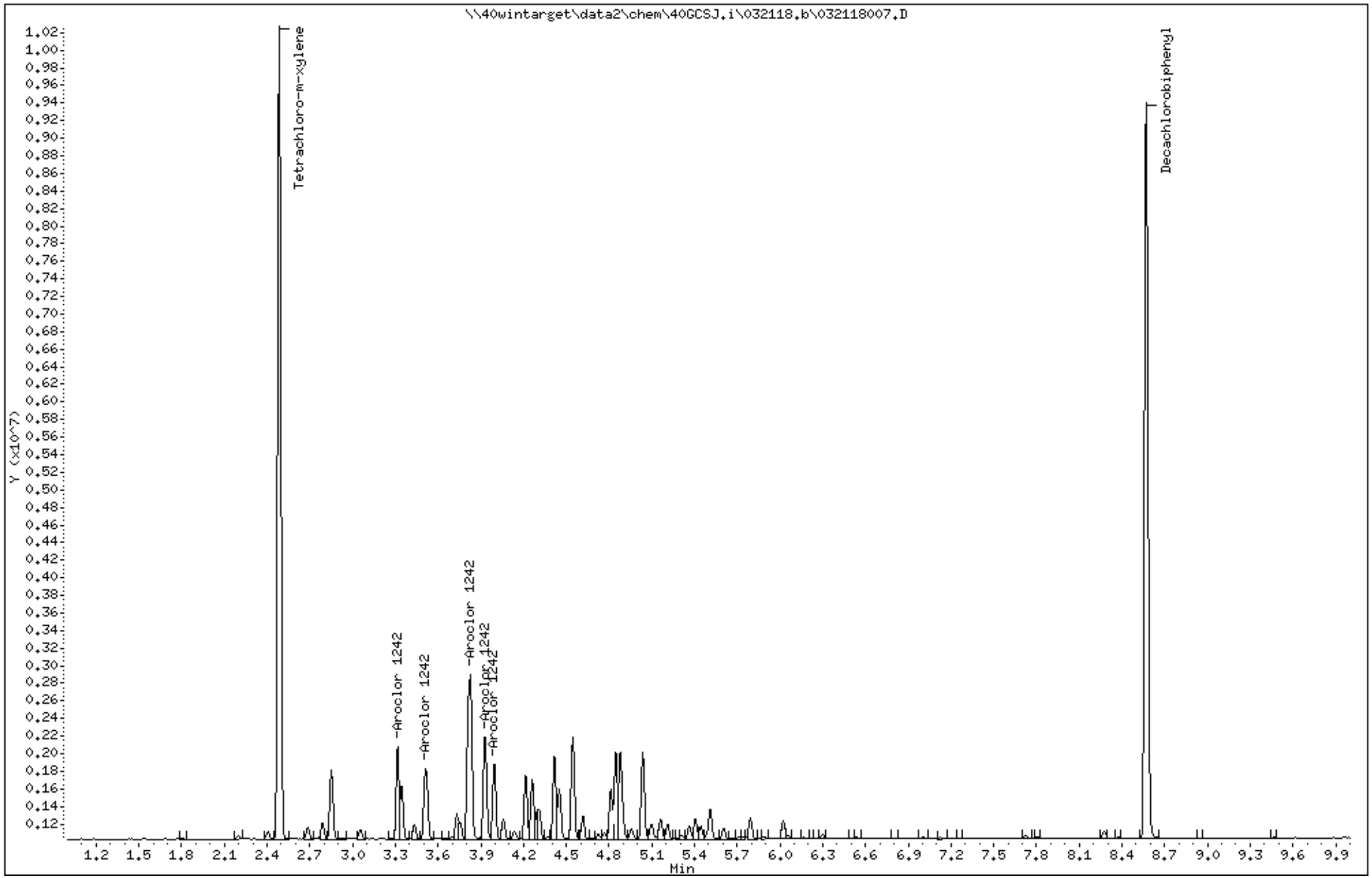
QC Flag Legend

M - Compound response manually integrated.

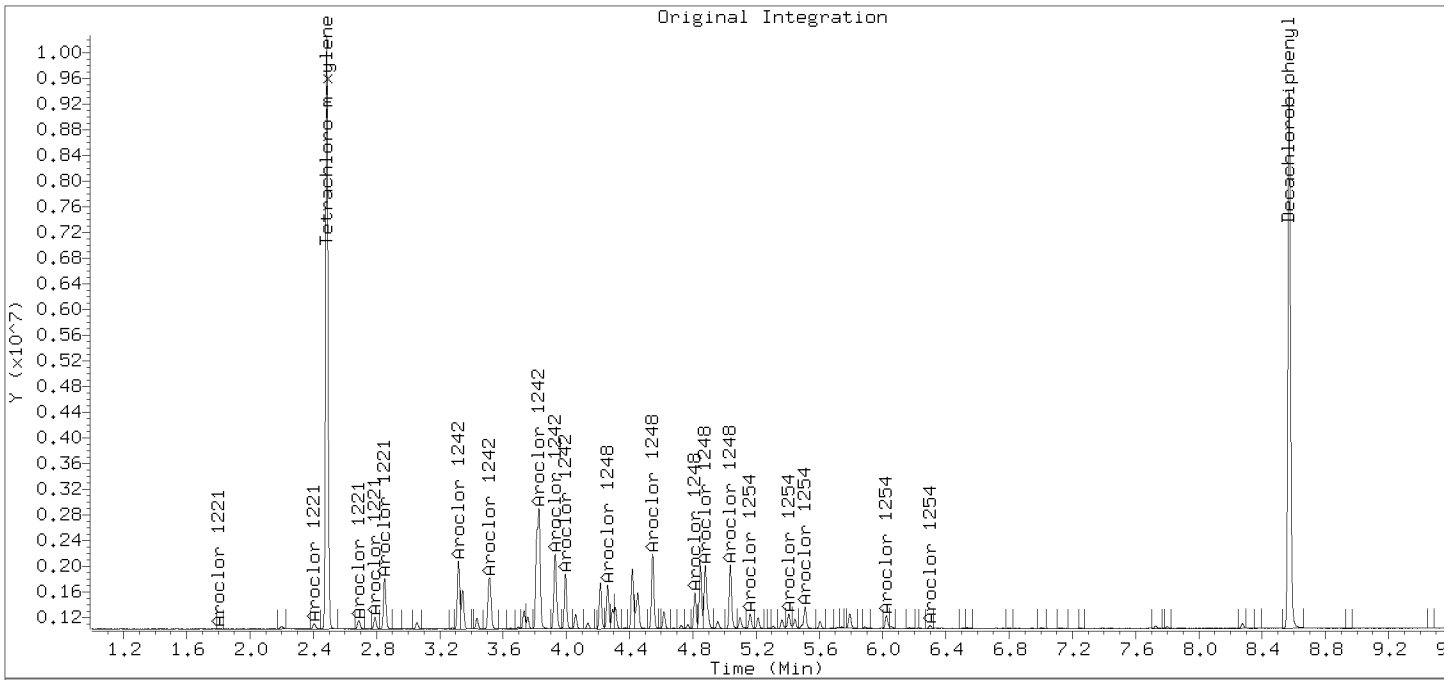
Review Codes Legend

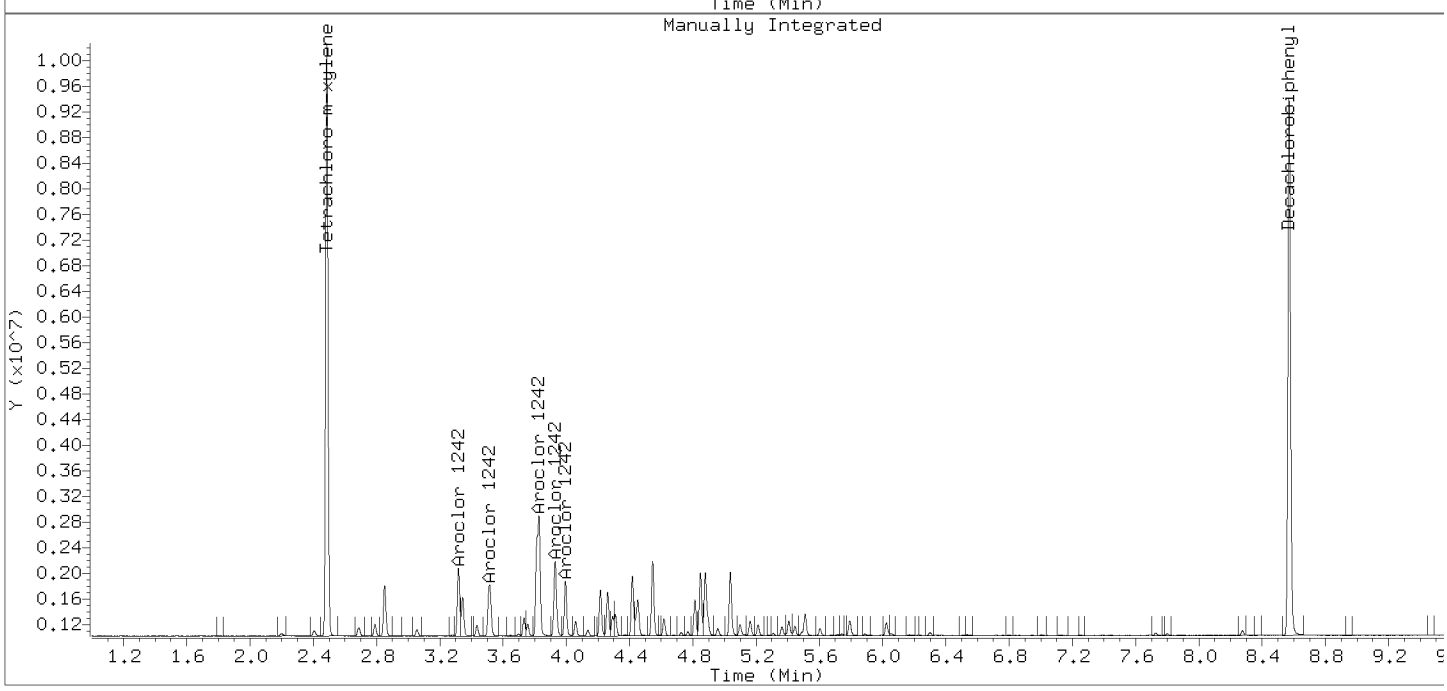
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b\032118007.D
Date : 21-MAR-2018 13:54
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1661058,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032118.b/032118007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 13:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1661058





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1124801	0	
Aroclor 1016	1124801	0	
Aroclor 1016	1124801	0	
Aroclor 1016	1124801	0	
Aroclor 1016	1124801	0	
Aroclor 1221	16915	0	
Aroclor 1221	16915	0	
Aroclor 1221	16915	0	
Aroclor 1221	16915	0	
Aroclor 1221	16915	0	
Aroclor 1232	879732	0	
Aroclor 1232	879732	0	
Aroclor 1232	879732	0	
Aroclor 1232	879732	0	

Aroclor 1232	879732	0	
Aroclor 1242	1124801	1131712	BA
Aroclor 1242	1124801	1131712	BA
Aroclor 1242	1124801	1131712	BA
Aroclor 1242	1124801	1131712	BA
Aroclor 1242	1124801	1131712	BA
Aroclor 1248	715992	0	
Aroclor 1248	715992	0	
Aroclor 1248	715992	0	
Aroclor 1248	715992	0	
Aroclor 1248	715992	0	
Aroclor 1254	256616	0	
Aroclor 1254	256616	0	
Aroclor 1254	256616	0	
Aroclor 1254	256616	0	
Aroclor 1254	256616	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9596953	9596953	
Decachlorobiphenyl	9820012	9820012	

==========

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.: 40151552

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

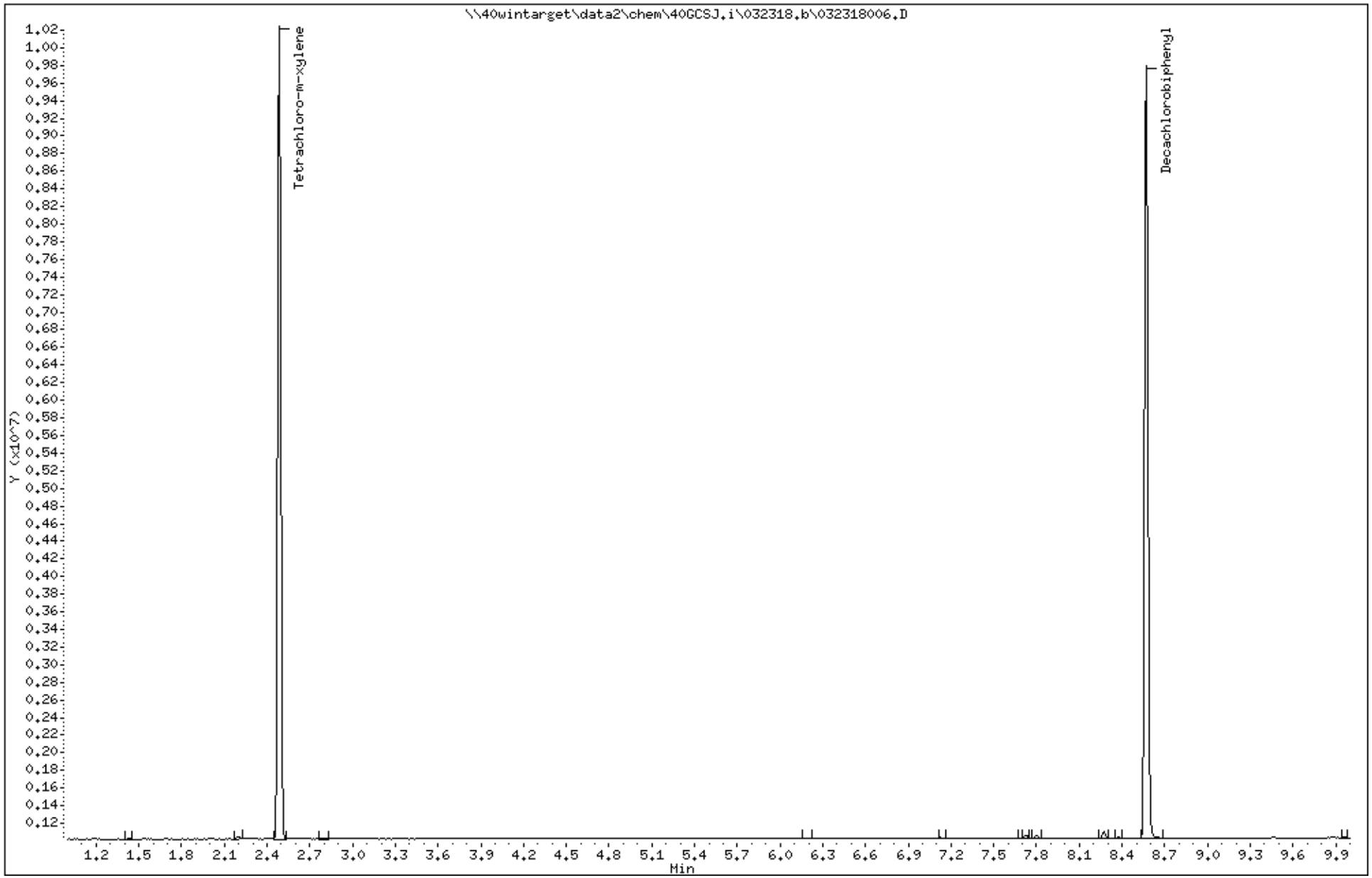
Sample Info: 1662163,

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	
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	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.: 40151552

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

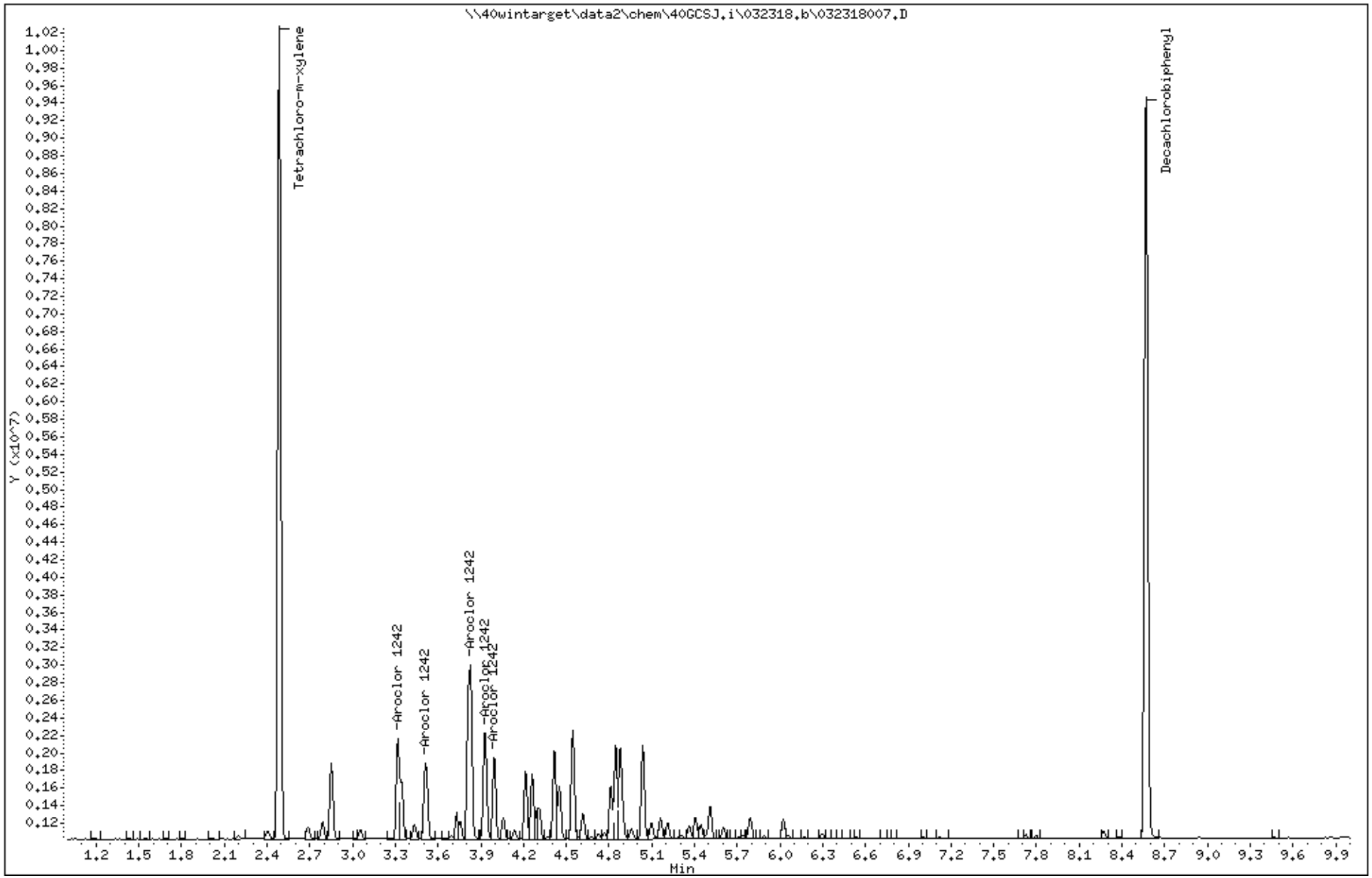
QC Flag Legend

M - Compound response manually integrated.

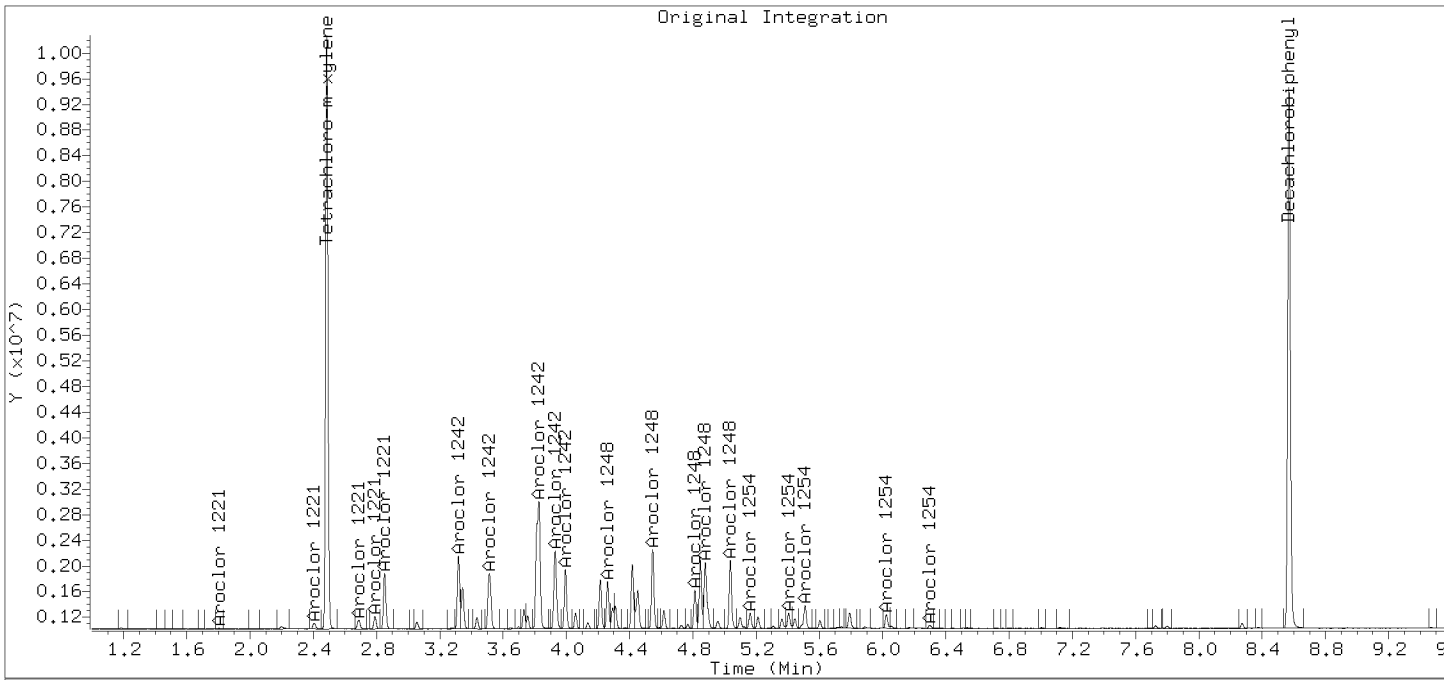
Review Codes Legend

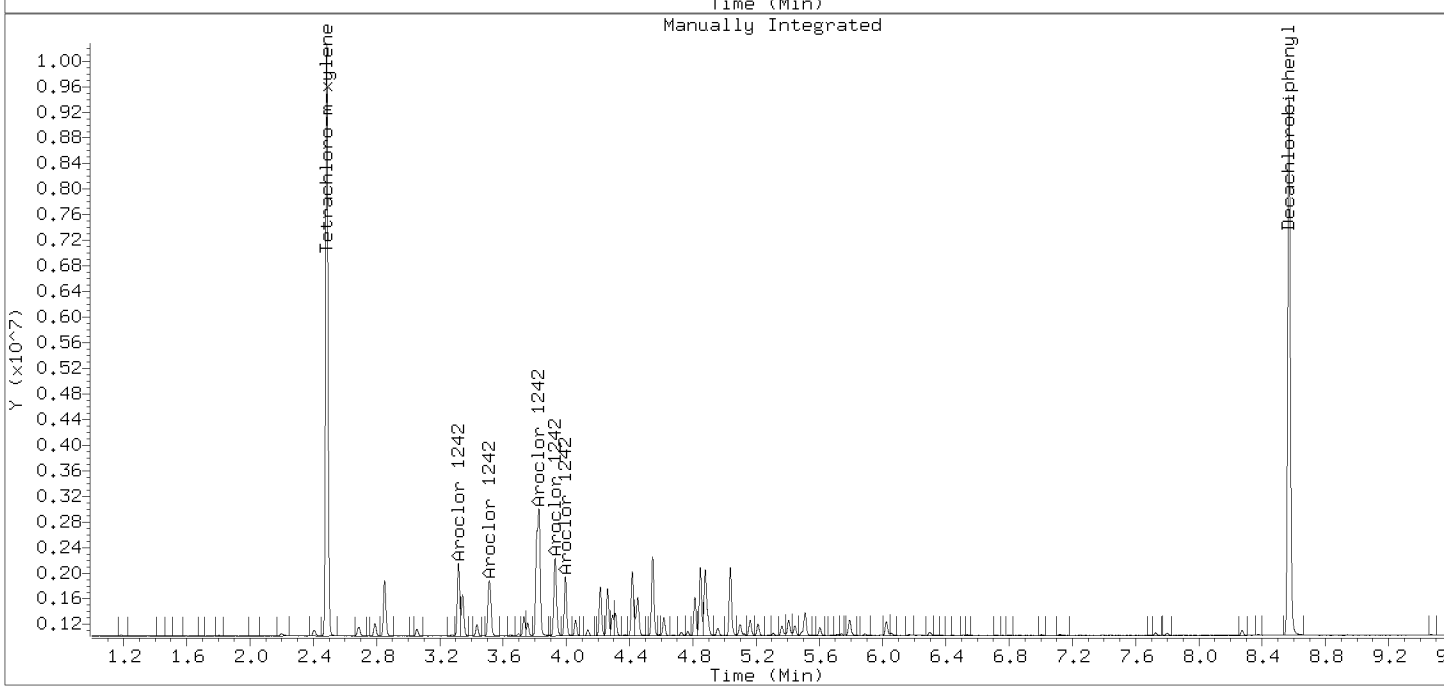
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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	

==========

Prep Log Report

Batch Information: OEXT 283116 PCB-B

Template Version: F-GB-O-113-Rev.03 (19Feb2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/13/2018 07:38:05:819
Spiked By	AMC	Spiked By Date/Time	03/13/2018 07:38:06:514	Witnessed By	BLM	Witnessed By Date/Time	03/13/2018 07:38:06:514
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane	188917	Sodium Sulfate	188340	Florisil	186910	3620B Date/Initials	3/14/18 AMC
H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/14/18 AMC	Tuna	None Added	Reviewed By	BLM
Reviewed By Date	03/23/2018 14:36	Batch Notes	Hex/Ace 50:50-191186				

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	**1658254**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1658255**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151549002**	9.986	5	3		189973 (.25)	
8082A TNYP	PS	**40151549003**	10.003	5	3		189973 (.25)	
8082A TNYP	PS	**40151549004**	10.0055	5	3		189973 (.25)	
8082A TNYP	PS	**40151549005**	10.0008	5	3		189973 (.25)	
8082A TNYP	PS	**40151549006**	10.0138	5	3		189973 (.25)	
8082A TNYP	PS	**40151549007**	10.0021	5	3		189973 (.25)	
8082A TNYP	PS	**40151549008**	10.0178	5	3		189973 (.25)	
8082A TNYP	PS	**40151549009**	10.0005	5	3		189973 (.25)	
8082A TNYP	RQS	**40151552010**	9.9677	5	3		189973 (.25)	
8082A TNYP	MS	**1658256**	9.9946	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1658257**	10.0089	5	3		189973 (.25)	
8082A TNYP	PS	**40151601003**	10.0319	5	3		189973 (.25)	
8082A TNYP	PS	**40151601004**	9.9968	5	3		189973 (.25)	
8082A TNYP	PS	**40151601005**	10.0156	5	3		189973 (.25)	

Prep Log Report

40151552

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	**40151601006**	9.9883	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 283695 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	03/20/2018 07:17:03:794
Spiked By	AMC	Spiked By Date/Time	03/20/2018 07:17:04:817	Witnessed By	ETB	Witnessed By Date/Time	03/20/2018 07:17:04:817
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191350	Hexane	188917	Sodium Sulfate	190953	Florisil	188802
3620B Date/Initials	03/21/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/21/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/03/2018 09:30	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	**1661057**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1661058**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40150291001**	9.2266	5	3		189973 (.25)	
8082A TNYP	RQS	**40150291002**	5.3501	5	3		189973 (.25)	
8082A TNYP	MS	**1661059**	5.3031	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1661060**	5.3253	5	3		189973 (.25)	
8082A TNYP	PS	**40150291003**	10.0236	5	3		189973 (.25)	
8082A TNYP	PS	**40150291004**	9.9837	5	3		189973 (.25)	
8082A TNYP	PS	**40151548001**	9.9796	5	3		189973 (.25)	
8082A TNYP	PS	**40151548002**	10.0017	5	3		189973 (.25)	
8082A TNYP	PS	**40151548003**	10.0238	5	3		189973 (.25)	
8082A TNYP	PS	**40151548004**	9.9826	5	3		189973 (.25)	
8082A TNYP	PS	**40151548005**	10.0184	5	3		189973 (.25)	
8082A TNYP	PS	**40151548006**	10.011	5	3		189973 (.25)	
8082A TNYP	PS	**40151548007**	9.9685	5	3		189973 (.25)	
8082A TNYP	PS	**40151552001**	9.9913	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	**40151552002**	10.0248	5	3		189973 (.25)	
8082A TNYP	PS	**40151552003**	10.015	5	3		189973 (.25)	
8082A TNYP	PS	**40151552004**	9.9916	5	3		189973 (.25)	
8082A TNYP	PS	**40151552005**	9.9662	5	3		189973 (.25)	
8082A TNYP	PS	**40151552006**	9.9642	5	3		189973 (.25)	
8082A TNYP	PS	**40151552007**	10.0356	5	3		189973 (.25)	
8082A TNYP	PS	**40151552008**	10.0149	5	3		189973 (.25)	
8082A TNYP	PS	**40151552009**	10.0057	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.**

```
   Sequence Name: C:\msdchem\1\sequence\031418.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\031418\
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  1658516MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1658517LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1658518MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1658519MSD
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40165780-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40165780-002
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40165780-003
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40165627-002
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40165627-003
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40165627-004
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40165627-005P
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40165627-006
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  1658254MB
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  1658255LCS
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  1658256MS x 3
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151549-002
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151549-003
     Datafile          --------

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```
      Method                SCREEN2014
20) Sample          20  40151549-004 —
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40151549-005 x5
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40151549-006 x2
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  40151549-007 x3
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  40151549-008 x2
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  40151549-009 —
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  40151552-010P x3
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27  1658257DUP x3
      Datafile              --------
      Method                SCREEN2014
28) Sample          28  40151601-003 —
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29  40151601-004 —
      Datafile              --------
      Method                SCREEN2014
30) Sample          30  40151601-005 —
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31  40151601-006 —
      Datafile              --------
      Method                SCREEN2014
32) Sample          32  HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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Signed 03/15/18 Date Signed 3/15/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032118.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\032118\
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  1661448MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1661449LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1661450MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1661451DUP
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40166111-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40166111-002
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40166111-003
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40166111-004
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40166111-005
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40166111-006
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40166111-007
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40166111-008
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40166111-009
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40166111-010
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40166111-011
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40166111-012
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40166111-013
     Datafile          --------

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```

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```
      Method                SCREEN2014
20) Sample          20  40166111-014
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40166111-015
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40166111-016
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  40166111-017
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  40166111-018P
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  1661462MB
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  1661463LCS
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27  1661464MS
      Datafile              --------
      Method                SCREEN2014
28) Sample          28  1661465DUP
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29  40166112-001P
      Datafile              --------
      Method                SCREEN2014
30) Sample          30  40166112-002
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31  40166112-003
      Datafile              --------
      Method                SCREEN2014
32) Sample          32  40166112-004
      Datafile              --------
      Method                SCREEN2014
33) RearSamp        33  40166112-005
      Datafile              --------
      Method                SCREEN2014
34) Sample          34  40166112-006
      Datafile              --------
      Method                SCREEN2014
35) RearSamp        35  40166112-007
      Datafile              --------
      Method                SCREEN2014
36) Sample          36  40166112-008
      Datafile              --------
      Method                SCREEN2014
37) RearSamp        37  40166112-009
      Datafile              --------
      Method                SCREEN2014
38) Sample          38  40166112-010
      Datafile              --------
      Method                SCREEN2014
39) RearSamp        39  40166112-011
      Datafile              --------
      Method                SCREEN2014
40) Sample          40  40166112-012
      Datafile              --------
      Method                SCREEN2014
41) RearSamp        41  40166112-013
      Datafile              --------
      Method                SCREEN2014
42) Sample          42  40166112-014
      Datafile              --------
      Method                SCREEN2014
43) RearSamp        43  40166112-015
      Datafile              --------
```

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Signed 3/26/18 Date Signed 3/26/18 Date

Sequence Name: C:\msdchem\1\sequence\032118.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40166112-016		
	Datafile		--------		
	Method			SCREEN2014	
45)	RearSamp	45	40166112-017		
	Datafile		--------		
	Method			SCREEN2014	
46)	Sample	46	40166112-018		
	Datafile		--------		
	Method			SCREEN2014	
47)	RearSamp	47	40166112-019		
	Datafile		--------		
	Method			SCREEN2014	
48)	Sample	48	HEXANE		
	Datafile		--------		
	Method			SCREEN2014	
49)	RearSamp	49	1661057MB		
	Datafile		--------		
	Method			SCREEN2014	
50)	Sample	50	1661058LCS		
	Datafile		--------		
	Method			SCREEN2014	
51)	RearSamp	51	1661059MS		
	Datafile		--------		
	Method			SCREEN2014	
52)	Sample	52	40150291-001		
	Datafile		--------		
	Method			SCREEN2014	
53)	RearSamp	53	40150291-002P		
	Datafile		--------		
	Method			SCREEN2014	
54)	Sample	54	1661060DUP		
	Datafile		--------		
	Method			SCREEN2014	
55)	RearSamp	55	40150291-003		
	Datafile		--------		
	Method			SCREEN2014	
56)	Sample	56	40150291-004		
	Datafile		--------		
	Method			SCREEN2014	
57)	RearSamp	57	40151548-001		
	Datafile		--------		
	Method			SCREEN2014	
58)	Sample	58	40151548-002		
	Datafile		--------		
	Method			SCREEN2014	
59)	RearSamp	59	40151548-003		
	Datafile		--------		
	Method			SCREEN2014	
60)	Sample	60	40151548-004	x4	
	Datafile		--------		
	Method			SCREEN2014	
61)	RearSamp	61	40151548-005	x5	
	Datafile		--------		
	Method			SCREEN2014	
62)	Sample	62	40151548-006	x3	
	Datafile		--------		
	Method			SCREEN2014	
63)	RearSamp	63	40151548-007	x4	
	Datafile		--------		
	Method			SCREEN2014	
64)	Sample	64	40151552-001		
	Datafile		--------		
	Method			SCREEN2014	
65)	RearSamp	65	40151552-002		
	Datafile		--------		
	Method			SCREEN2014	
66)	Sample	66	40151552-003		
	Datafile		--------		

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```
      Method                SCREEN2014
67)   RearSamp      67      40151552-004
      Datafile              --------
      Method                SCREEN2014
68)   Sample        68      40151552-005
      Datafile              --------
      Method                SCREEN2014
69)   RearSamp      69      40151552-006
      Datafile              --------
      Method                SCREEN2014
70)   Sample        70      40151552-007
      Datafile              --------
      Method                SCREEN2014
71)   RearSamp      71      40151552-008
      Datafile              --------
      Method                SCREEN2014
72)   Sample        72      40151552-009
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Signed 3/26/18 Date

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```
    Sequence Name: C:\msdchem\1\sequence\032318.s
          Comment:
         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:

    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  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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```

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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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Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
   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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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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```
      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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```
    Sequence Name: C:\msdchem\1\sequence\031418.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\031418\
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          031418001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          031418002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          031418003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 OK
     Datafile          031418004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 OK
     Datafile          031418005
     Method            GEBIOTA2017
 6) Sample          6  1658254,,17523,BIOTA
     Datafile          031418006
     Method            GEBIOTA2017
 7) Sample          7  1658255,,17523,BIOTA
     Datafile          031418007
     Method            GEBIOTA2017
 8) Sample          8  1658256 x3,,17523,BIOTA
     Datafile          031418008
     Method            GEBIOTA2017
 9) Sample          9  40151549002,,17523,BIOTA
     Datafile          031418009
     Method            GEBIOTA2017
10) Sample         10  40151549003,,17523,BIOTA RS
     Datafile          031418010
     Method            GEBIOTA2017
11) Sample         11  40151549004,,17523,BIOTA RS
     Datafile          031418011
     Method            GEBIOTA2017
12) Sample         12  40151549005 x5,,17523,BIOTA
     Datafile          031418012
     Method            GEBIOTA2017
13) Sample         13  40151549006 x2,,17523,BIOTA
     Datafile          031418013
     Method            GEBIOTA2017
14) Sample         14  40151549007 x3,,17523,BIOTA
     Datafile          031418014
     Method            GEBIOTA2017
15) Sample         15  40151549008 x2,,17523,BIOTA
     Datafile          031418015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 OK
     Datafile          031418016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 OK
     Datafile          031418017
     Method            GEBIOTA2017
18) Sample         18  40151549009,,17523,BIOTA
     Datafile          031418018
     Method            GEBIOTA2017
19) Sample         19  40151552010 x3,,17523,BIOTA
     Datafile          031418019

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```
      Method              GEBIOTA2017
20) Sample          20  1658257 x3,,17523,BIOTA
      Datafile            031418020
      Method              GEBIOTA2017
21) Sample          21  40151601003,,17523,BIOTA
      Datafile            031418021
      Method              GEBIOTA2017
22) Sample          22  40151601004,,17523,BIOTA
      Datafile            031418022
      Method              GEBIOTA2017
23) Sample          23  40151601005,,17523,BIOTA
      Datafile            031418023
      Method              GEBIOTA2017
24) Sample          24  40151601006,,17523,BIOTA
      Datafile            031418024
      Method              GEBIOTA2017
25) Sample          25  1254-CCV,185554:1,17498,AR125 OK
      Datafile            031418025
      Method              GEBIOTA2017
26) Sample          26  1254-CCV,185554:1,17498,AR125 OK
      Datafile            031418026
      Method              GEBIOTA2017
```

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Signed 3/23/18 Date Signed 3/26/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\032118.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\032118\
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          032118001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032118002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032118003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032118004
     Method            GEBIOTA2017
 5) Sample          5  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032118005
     Method            GEBIOTA2017
 6) Sample          6  1661057,,17555,BIOTA
     Datafile          032118006
     Method            GEBIOTA2017
 7) Sample          7  1661058,,17555,BIOTA
     Datafile          032118007
     Method            GEBIOTA2017
 8) Sample          8  1661059,,17555,BIOTA
     Datafile          032118008
     Method            GEBIOTA2017
 9) Sample          9  40150291001,,17555,BIOTA
     Datafile          032118009
     Method            GEBIOTA2017
10) Sample         10  40150291002,,17555,BIOTA
     Datafile          032118010
     Method            GEBIOTA2017
11) Sample         11  1661060,,17555,BIOTA
     Datafile          032118011
     Method            GEBIOTA2017
12) Sample         12  40150291003,,17555,BIOTA
     Datafile          032118012
     Method            GEBIOTA2017
13) Sample         13  40150291004,,17555,BIOTA
     Datafile          032118013
     Method            GEBIOTA2017
14) Sample         14  40151548001,,17555,BIOTA
     Datafile          032118014
     Method            GEBIOTA2017
15) Sample         15  40151548002,,17555,BIOTA
     Datafile          032118015
     Method            GEBIOTA2017
16) Sample         16  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032118016
     Method            GEBIOTA2017
17) Sample         17  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032118017
     Method            GEBIOTA2017
18) Sample         18  40151548003,,17555,BIOTA
     Datafile          032118018
     Method            GEBIOTA2017
19) Sample         19  40151548004 x4,,17555,BIOTA
     Datafile          032118019

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```
      Method              GEBIOTA2017
20) Sample          20  40151548005 x5,,17555,BIOTA
      Datafile            032118020
      Method              GEBIOTA2017
21) Sample          21  40151548006 x3,,17555,BIOTA
      Datafile            032118021
      Method              GEBIOTA2017
22) Sample          22  40151548007 x4,,17555,BIOTA
      Datafile            032118022
      Method              GEBIOTA2017
23) Sample          23  40151552001,,17555,BIOTA
      Datafile            032118023
      Method              GEBIOTA2017
24) Sample          24  40151552002,,17555,BIOTA
      Datafile            032118024
      Method              GEBIOTA2017
25) Sample          25  40151552003,,17555,BIOTA
      Datafile            032118025
      Method              GEBIOTA2017
26) Sample          26  40151552004,,17555,BIOTA
      Datafile            032118026
      Method              GEBIOTA2017
27) Sample          27  40151552005,,17555,BIOTA
      Datafile            032118027
      Method              GEBIOTA2017
28) Sample          28  1242-CCV,185544:1,17498,AR124 ok
      Datafile            032118028
      Method              GEBIOTA2017
29) Sample          29  1242-CCV,185544:1,17498,AR124 ok
      Datafile            032118029
      Method              GEBIOTA2017
30) Sample          30  40151552006,,17555,BIOTA
      Datafile            032118030
      Method              GEBIOTA2017
31) Sample          31  40151552007,,17555,BIOTA
      Datafile            032118031
      Method              GEBIOTA2017
32) Sample          32  40151552008,,17555,BIOTA
      Datafile            032118032
      Method              GEBIOTA2017
33) Sample          33  40151552009,,17555,BIOTA
      Datafile            032118033
      Method              GEBIOTA2017
34) Sample          34  1248-CCV,185549:1,17498,AR124 ok
      Datafile            032118034
      Method              GEBIOTA2017
35) Sample          35  1248-CCV,185549:1,17498,AR124 ok
      Datafile            032118035
      Method              GEBIOTA2017
```

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```
   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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```
      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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```
      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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```
      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

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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 #191186

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/12/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/12/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191186

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #191186

Composed of Standard Seq	Volume	Units
190951	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 #190951

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 #190951

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 #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 #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 #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 #188802

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405746
Create Date:	02/08/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	08/07/2018	**Manufacturer Lot ID:**	175507	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #188802

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

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

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

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

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

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		

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		

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		

The standards listed are from Pace's Green Bay Laboratory.

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

The standards listed are from Pace's Green Bay Laboratory.

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		

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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Date Received: _____

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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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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.

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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. : 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)

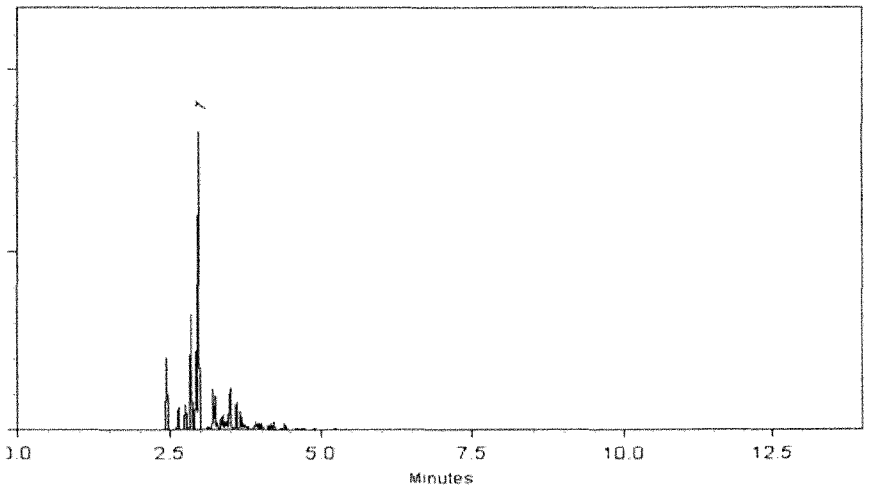
Carrier Gas:
helium-constant pressure 20 psi.

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

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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)

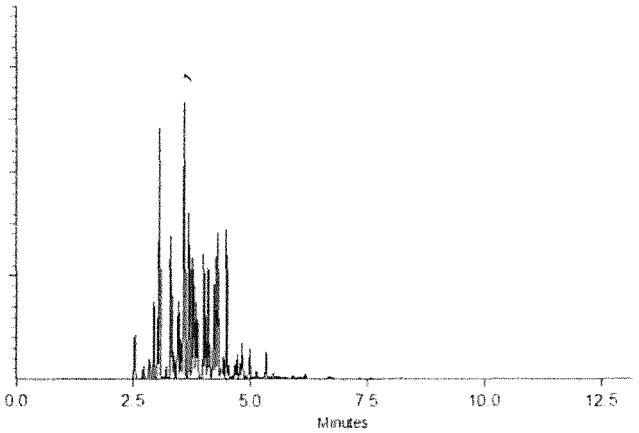
Carrier Gas:
helium-constant pressure 20 psi.

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

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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. : 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)

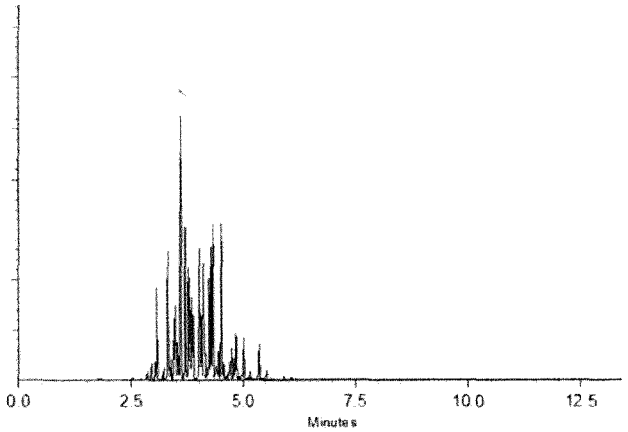
Carrier Gas:
helium-constant pressure 20 psi.

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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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)

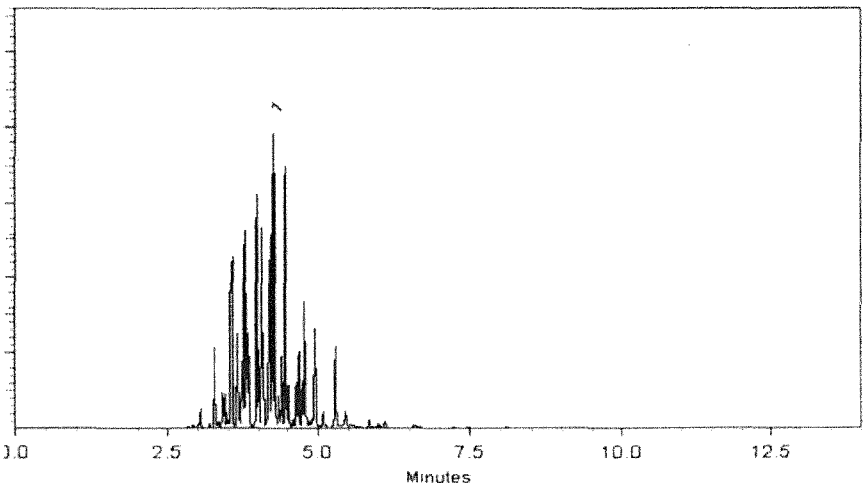
Carrier Gas:
helium-constant pressure 20 psi.

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

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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 __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

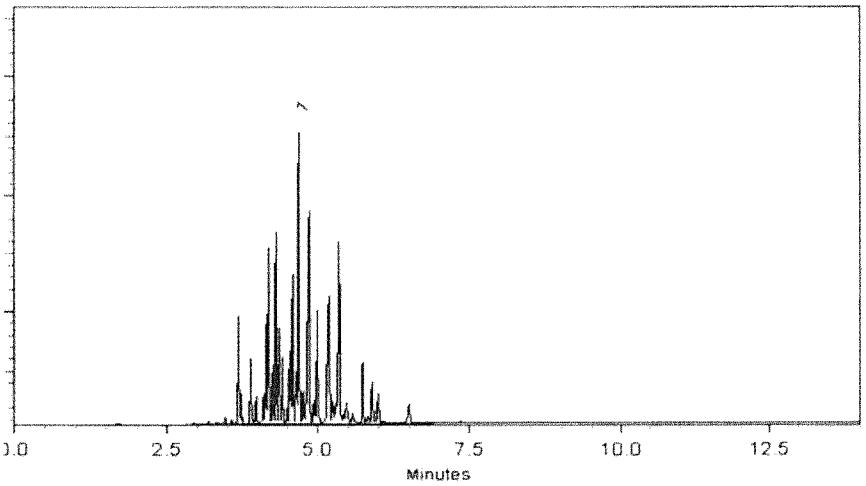
Carrier Gas:
helium-constant pressure 20 psi.

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.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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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. : 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)

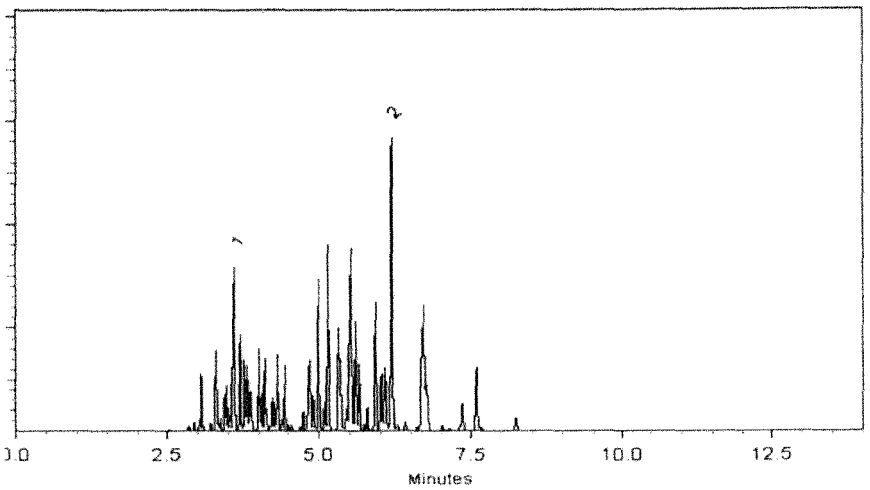
Carrier Gas:
helium-constant pressure 20 psi.

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 - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

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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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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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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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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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

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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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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)

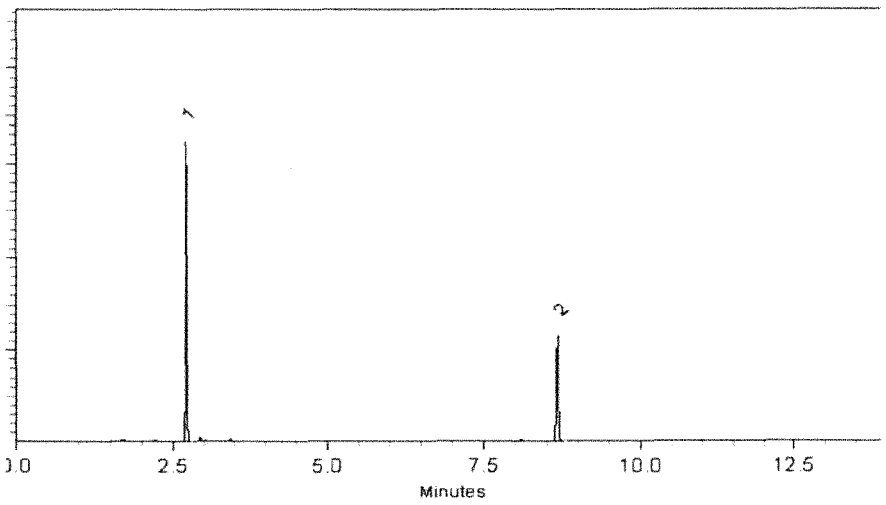
Carrier Gas:
helium-constant pressure 20 psi.

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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Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

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 --
Gen. / / 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 T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
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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. : 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)

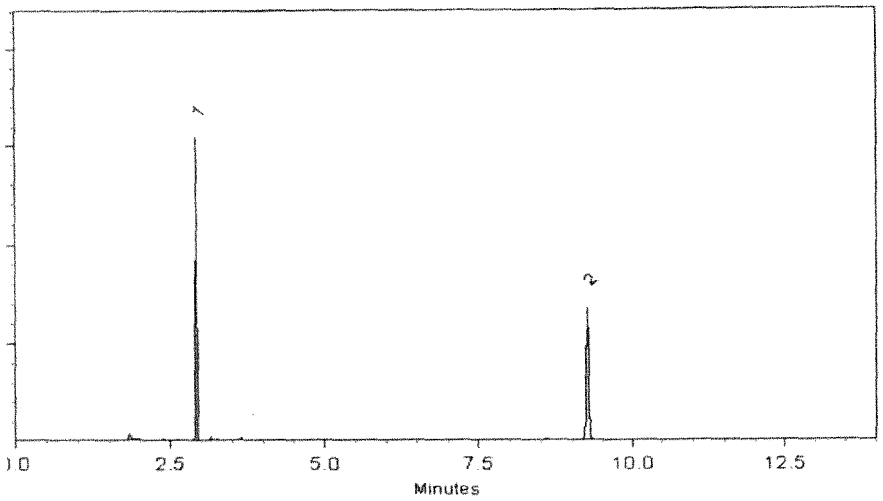
Carrier Gas:
helium-constant pressure 20 psi.

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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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.

SAMPLE NO.

TD5-170612-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.57		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.31		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.29		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.42		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.66		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.52		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.25		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.78		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.71		%	1	03/20/2018 06:24

SAMPLE NO.

TD5-170612-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	03/14/2018 06:49

SAMPLE NO.

TD3-170612-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151552011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	03/23/2018 06:20

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 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	1658258	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 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	1661068	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 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

SAMPLE NO.

1658259DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.5	1.5	5

SAMPLE NO.

1661071DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.39	0.38	2

SAMPLE NO.

1662747DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151552 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

Prep Log Report

Batch Information: OEXT 283118 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 12:23				

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	**1658693**	Y	-0.01500	03/14/2018 06:49:16		10	5	1	0.9256	0.9253	M	
LIPID	BLANK	**1658258**	Y	-0.02500	03/14/2018 06:49:16		10	5	1	0.9284	0.9279	M	
LIPID	PS	**40151549002**	Y	0.7210	03/14/2018 06:49:16		9.986	5	1	0.9245	0.9389	M	
LIPID	PS	**40151549003**	Y	1.380	03/14/2018 06:49:16		10.003	5	1	0.9214	0.949	M	
LIPID	PS	**40151549004**	Y	1.174	03/14/2018 06:49:16		10.0055	5	1	0.925	0.9485	M	
LIPID	PS	**40151549005**	Y	1.205	03/14/2018 06:49:16		10.0008	5	1	0.9265	0.9506	M	
LIPID	PS	**40151549006**	Y	0.6691	03/14/2018 06:49:16		10.0138	5	1	0.9244	0.9378	M	
LIPID	PS	**40151549007**	Y	0.7099	03/14/2018 06:49:16		10.0021	5	1	0.9212	0.9354	M	
LIPID	PS	**40151549008**	Y	0.9483	03/14/2018 06:49:16		10.0178	5	1	0.9285	0.9475	M	
LIPID	PS	**40151549009**	Y	0.5400	03/14/2018 06:49:16		10.0005	5	1	0.9247	0.9355	M	
LIPID	RQS	**40151552010**	Y	1.455	03/14/2018 06:49:16		9.9677	5	1	0.9245	0.9535	M	
LIPID	DUP	**1658259**	Y	1.529	03/14/2018 06:49:16		10.0089	5	1	0.9211	0.9517	M	
LIPID	PS	**40151601003**	Y	0.8971	03/14/2018 06:49:16		10.0319	5	1	0.924	0.942	M	
LIPID	PS	**40151601004**	Y	0.3551	03/14/2018 06:49:16		9.9968	5	1	0.923	0.9301	M	
LIPID	PS	**40151601005**	Y	0.6190	03/14/2018 06:49:16		10.0156	5	1	0.9209	0.9333	M	
LIPID	PS	**40151601006**	Y	1.412	03/14/2018 06:49:16		9.9883	5	1	0.923	0.9512	M	
LIPID	MS	**1682499**	Y	1.561	03/14/2018 06:49:16		9.9946	5	1	.9183	0.9495	M	

Prep Log Report

Batch Information: OEXT 283698 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 12:29				

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	**1661068**	Y	0.01500	03/20/2018 06:24:27		10	5	1	0.9268	0.9271	M	
LIPID	BLANK	**1661069**	Y	0.000	03/20/2018 06:24:27		10	5	1	0.9279	0.9279	M	
LIPID	PS	**40150291001**	Y	0.1084	03/20/2018 06:24:27		9.2266	5	1	0.9335	0.9355	M	
LIPID	RQS	**40150291002**	Y	0.3925	03/20/2018 06:24:27		5.3501	5	1	0.9264	0.9306	M	
LIPID	DUP	**1661071**	Y	0.3850	03/20/2018 06:24:27		5.3253	5	1	0.9315	0.9356	M	
LIPID	PS	**40150291003**	Y	0.3841	03/20/2018 06:24:27		10.0236	5	1	0.9341	0.9418	M	
LIPID	PS	**40150291004**	Y	0.4057	03/20/2018 06:24:27		9.9837	5	1	0.9302	0.9383	M	
LIPID	PS	**40151548001**	Y	0.4209	03/20/2018 06:24:27		9.9796	5	1	0.9295	0.9379	M	
LIPID	PS	**40151548002**	Y	0.6449	03/20/2018 06:24:27		10.0017	5	1	0.9286	0.9415	M	
LIPID	PS	**40151548003**	Y	0.2095	03/20/2018 06:24:27		10.0238	5	1	0.9307	0.9349	M	
LIPID	PS	**40151548004**	Y	1.067	03/20/2018 06:24:27		9.9826	5	1	0.9266	0.9479	M	
LIPID	PS	**40151548005**	Y	1.073	03/20/2018 06:24:27		10.0184	5	1	0.9274	0.9489	M	
LIPID	PS	**40151548006**	Y	0.3196	03/20/2018 06:24:27		10.011	5	1	0.9344	0.9408	M	
LIPID	PS	**40151548007**	Y	0.7624	03/20/2018 06:24:27		9.9685	5	1	0.9312	0.9464	M	
LIPID	PS	**40151552001**	Y	0.5655	03/20/2018 06:24:27		9.9913	5	1	0.9284	0.9397	M	
LIPID	PS	**40151552002**	Y	0.3142	03/20/2018 06:24:27		10.0248	5	1	0.933	0.9393	M	
LIPID	PS	**40151552003**	Y	0.2946	03/20/2018 06:24:27		10.015	5	1	0.9326	0.9385	M	
LIPID	PS	**40151552004**	Y	0.4153	03/20/2018 06:24:27		9.9916	5	1	0.9271	0.9354	M	
LIPID	PS	**40151552005**	Y	0.6622	03/20/2018 06:24:27		9.9662	5	1	0.9276	0.9408	M	

Prep Log Report

40151552

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	**40151552006**	Y	0.5169	03/20/2018 06:24:27		9.9642	5	1	0.9315	0.9418	M	
LIPID	PS	**40151552007**	Y	0.2541	03/20/2018 06:24:27		10.0356	5	1	0.9327	0.9378	M	
LIPID	PS	**40151552008**	Y	0.7838	03/20/2018 06:24:27		10.0149	5	1	0.9286	0.9443	M	
LIPID	PS	**40151552009**	Y	0.7146	03/20/2018 06:24:27		10.0057	5	1	0.9283	0.9426	M	
LIPID	MS	**1682494**	Y	0.4337	03/20/2018 06:24:27		5.3031	5	1	.9352	0.9398	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

40151552

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	

40151552

Client Name: GE
Project #: ~~40151549~~ 40151552 CWN 03-05
Sample Type: Fish
Date/Time Removed to Thaw: 03-05-18
Date/Time Prepped: 03-05-18
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	113.8	Y	M	44.1	Left / Both	Y	9AG	1	Y	42.1	C	
2	A	F	Y	102.2	Y	M	42.4	Left / Both	Y	9AG	1	Y	41.3	C	
3	A	F	Y	96.4	Y	M	44.9	Left / Both	Y	9AG	1	Y	43.7	C	
4	A	F	Y	102.7	Y	M	38.4	Left / Both	Y	9AG	1	Y	37.4	C	
5	A	F	Y	153.5	Y	M	61.7	Left / Both	Y	9AG	1	Y	59.3	C	
6	A	F	Y	106.4	Y	M	48.3	Left / Both	Y	9AG	1	Y	46.5	C	
7	A	F	Y	138.0	Y	M	56.8	Left / Both	Y	9AG	1	Y	55.5	C	
8	A	F	Y	141.5	Y	M	59.9	Left / Both	Y	9AG	1	Y	58.6	C	
9	A	F	Y	131.6	Y	M	55.8	Left / Both	Y	9AG	1	Y	54.4	C	
10	B	F	Y	782.7	Y	CWN 03-5 ~~M~~F	78.5	Left / Both	Y	9AG	1	Y	77.0	C	Bullhead
11	A	F	Y	265.6	Y	M	58.8	Left / Both	Y	9AG	1	Y	56.6	C	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	~~03-05-18~~	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