Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151705

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

SDG Narrative . . . 36

Organic

GC-ECD PCBs

Surrogate Recovery Summary (Form 2) . . . 37

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 38

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) . . . 39

Duplicate Summary (Form 3) . . . 40

Method Blank Association Summary (Form 4) . . . 41

Analytical Results with Raw Data (Form 1) . . . 42

Initial Calibration Summary (Form 6) . . . 203

Raw Data for Initial Calibration Standards . . . 210

Continuing Calibration Summary (Form 7) . . . 350

Raw Data for Continuing Calibration Standards . . . 359

Raw Data QC . . . 407

Preparation Logs Raw Data . . . 439

Instrument Run Log . . . 441

Standards Traceability . . . 450

Certificate of Analysis . . . 512

InOrganic

Gravimetric

Analytical Results (Form 1-IN) . . . 539

Blanks (Form 3-IN) . . . 557

Duplicates (Form 6-IN) . . . 558

Preparation Logs Raw Data . . . 559

Biota Prep Logs

Biota Prep Logs . . . 561

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

May 04, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 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.: 40151705

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.: 40151705

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151705001	**FD1-170613-01-BB-19**	Tissue	06/13/17 10:57	06/15/17 09:55
40151705002	**FD1-170613-01-BB-17**	Tissue	06/13/17 10:49	06/15/17 09:55
40151705003	**FD1-170613-01-BB-16**	Tissue	06/13/17 10:47	06/15/17 09:55
40151705004	**FD1-170613-01-BB-15**	Tissue	06/13/17 10:44	06/15/17 09:55
40151705005	**FD1-170613-01-BB-14**	Tissue	06/13/17 10:42	06/15/17 09:55
40151705006	**FD1-170613-01-BB-13**	Tissue	06/13/17 10:40	06/15/17 09:55
40151705007	**FD1-170613-01-BB-12**	Tissue	06/13/17 10:38	06/15/17 09:55
40151705008	**FD1-170613-01-BB-11**	Tissue	06/13/17 10:36	06/15/17 09:55
40151705009	**FD1-170613-01-BB-10**	Tissue	06/13/17 10:34	06/15/17 09:55
40151705010	**FD1-170613-01-BB-09**	Tissue	06/13/17 10:32	06/15/17 09:55
40151705011	**FD1-170613-01-BB-08**	Tissue	06/13/17 10:30	06/15/17 09:55
40151705012	**FD1-170613-01-BB-07**	Tissue	06/13/17 10:28	06/15/17 09:55
40151705013	**FD1-170613-01-BB-06**	Tissue	06/13/17 10:26	06/15/17 09:55
40151705014	**FD1-170613-01-BB-05**	Tissue	06/13/17 10:24	06/15/17 09:55
40151705015	**FD1-170613-01-BB-04**	Tissue	06/13/17 10:21	06/15/17 09:55
40151705016	**FD1-170613-01-BB-03**	Tissue	06/13/17 10:18	06/15/17 09:55
40151705017	**FD1-170613-01-BB-02**	Tissue	06/13/17 10:16	06/15/17 09:55
40151705018	**FD1-170613-01-BB-01**	Tissue	06/13/17 10:14	06/15/17 09:55

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151705001	FD1-170613-01-BB-19	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705002	FD1-170613-01-BB-17	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705003	FD1-170613-01-BB-16	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705004	FD1-170613-01-BB-15	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705005	FD1-170613-01-BB-14	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705006	FD1-170613-01-BB-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705007	FD1-170613-01-BB-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705008	FD1-170613-01-BB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705009	FD1-170613-01-BB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705010	FD1-170613-01-BB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705011	FD1-170613-01-BB-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705012	FD1-170613-01-BB-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705013	FD1-170613-01-BB-06	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705014	**FD1-170613-01-BB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705015	**FD1-170613-01-BB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705016	**FD1-170613-01-BB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705017	**FD1-170613-01-BB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151705018	**FD1-170613-01-BB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 04, 2018

General Information:
18 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.

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.: 40151705

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 04, 2018

General Information:
18 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.: 40151705

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 04, 2018

General Information:
18 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.: 40151705

Sample: FD1-170613-01-BB-19 **Lab ID: 40151705001** Collected: 06/13/17 10:57 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 20:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**158**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**51.5**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	11096-82-5	
PCB, Total	**210**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 20:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		1	03/16/18 07:30	03/20/18 20:27	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/16/18 07:30	03/20/18 20:27	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:49		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.52**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-17 **Lab ID: 40151705002** Collected: 06/13/17 10:49 Received: 06/15/17 09:55 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	03/16/18 07:30	03/20/18 20:42	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/16/18 07:30	03/20/18 20:42	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:49		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.35**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-16 **Lab ID: 40151705003** Collected: 06/13/17 10:47 Received: 06/15/17 09:55 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**65.3**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**30.4J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**16.0J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	11096-82-5	
PCB, Total	**112**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 20:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		1	03/16/18 07:30	03/20/18 20:58	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	03/16/18 07:30	03/20/18 20:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:49		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.35**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-15 **Lab ID: 40151705004** Collected: 06/13/17 10:44 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 21:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**27.4J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.7J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	11096-82-5	
PCB, Total	**46.1J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 21:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/16/18 07:30	03/20/18 21:14	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	03/16/18 07:30	03/20/18 21:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:49		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.35**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-14 **Lab ID: 40151705005** Collected: 06/13/17 10:42 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 21:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**111**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**39.7J**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**12.0J**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	11096-82-5	
PCB, Total	**163**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/20/18 21:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/16/18 07:30	03/20/18 21:30	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/16/18 07:30	03/20/18 21:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:49		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.68**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-13 **Lab ID: 40151705006** Collected: 06/13/17 10:40 Received: 06/15/17 09:55 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**39.1J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**16.6J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	11096-82-5	
PCB, Total	**55.7**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 21:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	103	%	60-140		1	03/16/18 07:30	03/20/18 21:46	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/16/18 07:30	03/20/18 21:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:49		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-12 **Lab ID: 40151705007** Collected: 06/13/17 10:38 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 22:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**41.3J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**19.9J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**15.2J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	11096-82-5	
PCB, Total	**76.3**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 22:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/16/18 07:30	03/20/18 22:02	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	03/16/18 07:30	03/20/18 22:02	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-11 **Lab ID: 40151705008** Collected: 06/13/17 10:36 Received: 06/15/17 09:55 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 22:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		1	03/16/18 07:30	03/20/18 22:17	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	03/16/18 07:30	03/20/18 22:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.55**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-10 **Lab ID: 40151705009** Collected: 06/13/17 10:34 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 22:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**35.2J**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**17.7J**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**15.6J**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	11096-82-5	
PCB, Total	**68.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/20/18 22:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		1	03/16/18 07:30	03/20/18 22:33	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/16/18 07:30	03/20/18 22:33	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.63**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-09 **Lab ID: 40151705010** Collected: 06/13/17 10:32 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 23:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**14.8J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**11.9J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**15.6J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	11096-82-5	
PCB, Total	**42.3J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	03/16/18 07:30	03/20/18 23:21	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/16/18 07:30	03/20/18 23:21	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.63**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-08 **Lab ID: 40151705011** Collected: 06/13/17 10:30 Received: 06/15/17 09:55 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	03/16/18 07:30	03/20/18 23:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/20/18 23:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/16/18 07:30	03/20/18 23:36	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/16/18 07:30	03/20/18 23:36	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.47**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-07 **Lab ID: 40151705012** Collected: 06/13/17 10:28 Received: 06/15/17 09:55 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**14.5J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	11096-82-5	
PCB, Total	**14.5J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/20/18 23:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/16/18 07:30	03/20/18 23:52	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/16/18 07:30	03/20/18 23:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.44**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-06 **Lab ID: 40151705013** Collected: 06/13/17 10:26 Received: 06/15/17 09:55 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	03/16/18 07:30	03/21/18 00:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 00:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/16/18 07:30	03/21/18 00:08	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/16/18 07:30	03/21/18 00:08	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.38**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-05 **Lab ID: 40151705014** Collected: 06/13/17 10:24 Received: 06/15/17 09:55 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	03/16/18 07:30	03/21/18 00:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**44.9J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.7J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**12.2J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	11096-82-5	
PCB, Total	**77.8**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	03/16/18 07:30	03/21/18 00:24	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/16/18 07:30	03/21/18 00:24	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-04 **Lab ID: 40151705015** Collected: 06/13/17 10:21 Received: 06/15/17 09:55 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	03/16/18 07:30	03/21/18 00:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**48.0J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.7J**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	11096-82-5	
PCB, Total	**69.7**	ug/kg	49.9	11.4	1	03/16/18 07:30	03/21/18 00:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/16/18 07:30	03/21/18 00:40	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/16/18 07:30	03/21/18 00:40	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.56**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-03 **Lab ID: 40151705016** Collected: 06/13/17 10:18 Received: 06/15/17 09:55 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	03/16/18 07:30	03/21/18 00:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**18.4J**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**11.5J**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	11096-82-5	
PCB, Total	**29.9J**	ug/kg	49.8	11.4	1	03/16/18 07:30	03/21/18 00:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/16/18 07:30	03/21/18 00:55	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/16/18 07:30	03/21/18 00:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-02 **Lab ID: 40151705017** Collected: 06/13/17 10:16 Received: 06/15/17 09:55 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	03/16/18 07:30	03/21/18 01:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**15.2J**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	11096-82-5	
PCB, Total	**15.2J**	ug/kg	50.0	11.4	1	03/16/18 07:30	03/21/18 01:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	03/16/18 07:30	03/21/18 01:11	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/16/18 07:30	03/21/18 01:11	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.75**	%	0.030	0.030	1		03/20/18 08:27		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Sample: FD1-170613-01-BB-01 **Lab ID: 40151705018** Collected: 06/13/17 10:14 Received: 06/15/17 09:55 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**11.9J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	11096-82-5	
PCB, Total	**11.9J**	ug/kg	50.1	11.4	1	03/16/18 07:30	03/21/18 01:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/16/18 07:30	03/21/18 01:43	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/16/18 07:30	03/21/18 01:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:50		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%	0.030	0.030	1		03/20/18 08:27		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

QC Batch: 283459 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151705001, 40151705002, 40151705003, 40151705004, 40151705005, 40151705006, 40151705007, 40151705008, 40151705009, 40151705010, 40151705011, 40151705012, 40151705013, 40151705014, 40151705015, 40151705016, 40151705017, 40151705018

METHOD BLANK: 1659955 | Matrix: Tissue
Associated Lab Samples: 40151705001, 40151705002, 40151705003, 40151705004, 40151705005, 40151705006, 40151705007, 40151705008, 40151705009, 40151705010, 40151705011, 40151705012, 40151705013, 40151705014, 40151705015, 40151705016, 40151705017, 40151705018

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

LABORATORY CONTROL SAMPLE: 1659956

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

MATRIX SPIKE SAMPLE: 1659957

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

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

SAMPLE DUPLICATE: 1659958

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

QC Batch: 283726 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151705001, 40151705002, 40151705003, 40151705004, 40151705005, 40151705006, 40151705007, 40151705008, 40151705009, 40151705010, 40151705011, 40151705012, 40151705013, 40151705014, 40151705015, 40151705016, 40151705017, 40151705018

METHOD BLANK: 1661134 | Matrix: Tissue
Associated Lab Samples: 40151705001, 40151705002, 40151705003, 40151705004, 40151705005, 40151705006, 40151705007, 40151705008, 40151705009, 40151705010, 40151705011, 40151705012, 40151705013, 40151705014, 40151705015, 40151705016, 40151705017, 40151705018

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

MATRIX SPIKE SAMPLE: 1682476

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

SAMPLE DUPLICATE: 1661137

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

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151705001	**FD1-170613-01-BB-19**	EPA 3541	283459	EPA 8082A Mod	283746
40151705002	**FD1-170613-01-BB-17**	EPA 3541	283459	EPA 8082A Mod	283746
40151705003	**FD1-170613-01-BB-16**	EPA 3541	283459	EPA 8082A Mod	283746
40151705004	**FD1-170613-01-BB-15**	EPA 3541	283459	EPA 8082A Mod	283746
40151705005	**FD1-170613-01-BB-14**	EPA 3541	283459	EPA 8082A Mod	283746
40151705006	**FD1-170613-01-BB-13**	EPA 3541	283459	EPA 8082A Mod	283746
40151705007	**FD1-170613-01-BB-12**	EPA 3541	283459	EPA 8082A Mod	283746
40151705008	**FD1-170613-01-BB-11**	EPA 3541	283459	EPA 8082A Mod	283746
40151705009	**FD1-170613-01-BB-10**	EPA 3541	283459	EPA 8082A Mod	283746
40151705010	**FD1-170613-01-BB-09**	EPA 3541	283459	EPA 8082A Mod	283746
40151705011	**FD1-170613-01-BB-08**	EPA 3541	283459	EPA 8082A Mod	283746
40151705012	**FD1-170613-01-BB-07**	EPA 3541	283459	EPA 8082A Mod	283746
40151705013	**FD1-170613-01-BB-06**	EPA 3541	283459	EPA 8082A Mod	283746
40151705014	**FD1-170613-01-BB-05**	EPA 3541	283459	EPA 8082A Mod	283746
40151705015	**FD1-170613-01-BB-04**	EPA 3541	283459	EPA 8082A Mod	283746
40151705016	**FD1-170613-01-BB-03**	EPA 3541	283459	EPA 8082A Mod	283746
40151705017	**FD1-170613-01-BB-02**	EPA 3541	283459	EPA 8082A Mod	283746
40151705018	**FD1-170613-01-BB-01**	EPA 3541	283459	EPA 8082A Mod	283746
40151705001	**FD1-170613-01-BB-19**	Pace Gender Typing	283433		
40151705002	**FD1-170613-01-BB-17**	Pace Gender Typing	283433		
40151705003	**FD1-170613-01-BB-16**	Pace Gender Typing	283433		
40151705004	**FD1-170613-01-BB-15**	Pace Gender Typing	283433		
40151705005	**FD1-170613-01-BB-14**	Pace Gender Typing	283433		
40151705006	**FD1-170613-01-BB-13**	Pace Gender Typing	283433		
40151705007	**FD1-170613-01-BB-12**	Pace Gender Typing	283433		
40151705008	**FD1-170613-01-BB-11**	Pace Gender Typing	283433		
40151705009	**FD1-170613-01-BB-10**	Pace Gender Typing	283433		
40151705010	**FD1-170613-01-BB-09**	Pace Gender Typing	283433		
40151705011	**FD1-170613-01-BB-08**	Pace Gender Typing	283433		
40151705012	**FD1-170613-01-BB-07**	Pace Gender Typing	283433		
40151705013	**FD1-170613-01-BB-06**	Pace Gender Typing	283433		
40151705014	**FD1-170613-01-BB-05**	Pace Gender Typing	283433		
40151705015	**FD1-170613-01-BB-04**	Pace Gender Typing	283433		
40151705016	**FD1-170613-01-BB-03**	Pace Gender Typing	283433		
40151705017	**FD1-170613-01-BB-02**	Pace Gender Typing	283433		
40151705018	**FD1-170613-01-BB-01**	Pace Gender Typing	283433		
40151705001	**FD1-170613-01-BB-19**	Pace Lipid	283726		
40151705002	**FD1-170613-01-BB-17**	Pace Lipid	283726		
40151705003	**FD1-170613-01-BB-16**	Pace Lipid	283726		
40151705004	**FD1-170613-01-BB-15**	Pace Lipid	283726		
40151705005	**FD1-170613-01-BB-14**	Pace Lipid	283726		
40151705006	**FD1-170613-01-BB-13**	Pace Lipid	283726		
40151705007	**FD1-170613-01-BB-12**	Pace Lipid	283726		
40151705008	**FD1-170613-01-BB-11**	Pace Lipid	283726		
40151705009	**FD1-170613-01-BB-10**	Pace Lipid	283726		
40151705010	**FD1-170613-01-BB-09**	Pace Lipid	283726		
40151705011	**FD1-170613-01-BB-08**	Pace Lipid	283726		
40151705012	**FD1-170613-01-BB-07**	Pace Lipid	283726		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151705013	**FD1-170613-01-BB-06**	Pace Lipid	283726		
40151705014	**FD1-170613-01-BB-05**	Pace Lipid	283726		
40151705015	**FD1-170613-01-BB-04**	Pace Lipid	283726		
40151705016	**FD1-170613-01-BB-03**	Pace Lipid	283726		
40151705017	**FD1-170613-01-BB-02**	Pace Lipid	283726		
40151705018	**FD1-170613-01-BB-01**	Pace Lipid	283726		

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40151705

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	FD1-170613-01	FD1-170613-01-YB-01	6/13/2017	10:59	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	FD1-170613-01	FD1-170613-01-BB-19	6/13/2017	10:57	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	FD1-170613-01	FD1-170613-01-BB-18	6/13/2017	10:50	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	FD1-170613-01	FD1-170613-01-BB-17	6/13/2017	10:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	FD1-170613-01	FD1-170613-01-BB-16	6/13/2017	10:47	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	FD1-170613-01	FD1-170613-01-BB-15	6/13/2017	10:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	FD1-170613-01	FD1-170613-01-BB-14	6/13/2017	10:42	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	FD1-170613-01	FD1-170613-01-BB-13	6/13/2017	10:40	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	FD1-170613-01	FD1-170613-01-BB-12	6/13/2017	10:38	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	FD1-170613-01	FD1-170613-01-BB-11	6/13/2017	10:36	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

001
002
003
004
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008

A
1-ziploc
C

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company	Company Fedex	Company Pace	Company	Company
Date/Time 6/13/17 17:45	Date/Time 6/13/17 17:45	Date/Time 6/15/17 0955	Date/Time 6/15/17 0955	Date/Time	Date/Time

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

40151705

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-I-009)	
009	011	FD1-170613-01	FD1-170613-01-BB-10	6/13/2017	10:34	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	012	FD1-170613-01	FD1-170613-01-BB-09	6/13/2017	10:32	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
011	013	FD1-170613-01	FD1-170613-01-BB-08	6/13/2017	10:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	014	FD1-170613-01	FD1-170613-01-BB-07	6/13/2017	10:28	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	015	FD1-170613-01	FD1-170613-01-BB-06	6/13/2017	10:26	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	016	FD1-170613-01	FD1-170613-01-BB-05	6/13/2017	10:24	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	017	FD1-170613-01	FD1-170613-01-BB-04	6/13/2017	10:21	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	018	FD1-170613-01	FD1-170613-01-BB-03	6/13/2017	10:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	019	FD1-170613-01	FD1-170613-01-BB-02	6/13/2017	10:16	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	020	FD1-170613-01	FD1-170613-01-BB-01	6/13/2017	10:14	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc A

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [illegible]	Signature	Signature	Signature [illegible]	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name	Print Name Alette	Print Name	Print Name
Company Anchor QEA	Company	Company Fedex	Company Pace	Company	Company
Date/Time 6/13/17 17:45	Date/Time 6/13/17 17:45	Date/Time 6/13/17 0955	Date/Time 6/13/17 0955	Date/Time	Date/Time

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 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#: 40151705**

40151705

Client Name: Anchor

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

Tracking #: 786867884137

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

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

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

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

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

Temp Blank Present: ☐ yes ☑ no

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

Person examining contents:
Date: 6/15/17
Initials: [illegible]

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for TN **Date:** 6/15/17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40151705
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

A. **Calibration:**
  1. **Initial verification:** All method acceptance criteria were met.
  2. **Continuing verification:** All method acceptance criteria were met.
B. **Blanks:**
  1. **Method:** All acceptance criteria were met for the associated method blank.
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 FD1-170613-01-BB-02 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met.
E. **Samples:** Sample analyses proceeded normally. ZB-1ms is the quantitation column.
F. **Sample Duplicate:** Sample FD1-170613-01-BB-02 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Duplicate results are not evaluated below the reporting limit.
G. **Dilutions:** None required for this SDG.
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: 05/14/18

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.: 40151705 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1659955	1659955BLANK	86	76
1659956	1659956LCS	93	83
1659957	1659957MS	86	89
1659958	1659958DUP	85	83
40151705001	FD1-170613-01-BB-19	92	92
40151705002	FD1-170613-01-BB-17	94	91
40151705003	FD1-170613-01-BB-16	100	98
40151705004	FD1-170613-01-BB-15	97	95
40151705005	FD1-170613-01-BB-14	93	93
40151705006	FD1-170613-01-BB-13	98	103
40151705007	FD1-170613-01-BB-12	84	84
40151705008	FD1-170613-01-BB-11	84	82
40151705009	FD1-170613-01-BB-10	95	94
40151705010	FD1-170613-01-BB-09	92	91
40151705011	FD1-170613-01-BB-08	89	87
40151705012	FD1-170613-01-BB-07	91	89
40151705013	FD1-170613-01-BB-06	92	87
40151705014	FD1-170613-01-BB-05	90	88
40151705015	FD1-170613-01-BB-04	92	89
40151705016	FD1-170613-01-BB-03	90	85
40151705017	FD1-170613-01-BB-02	89	90
40151705018	FD1-170613-01-BB-01	96	89

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/16/2018

Instrument: 40GCSJ

Lab File ID: 032018.B\032018025.D

Lab Sample ID: 1659956LCS

Date Analyzed (1): 03/20/2018

LCS Lot No: 182336

SDG No.: 40151705

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

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/16/2018

Instrument: 40GCSJ

Parent Sample ID: FD1-170613-01-BB-02

Matrix Spike - Sample No: 1659957MS

Date Analyzed (1): 03/20/2018

Lab File ID: 032018.B\032018026.D

SDG No.: 40151705

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

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/16/2018

Instrument 40GCSJ

Lab Sample ID: FD1-170613-01-BB-02

Duplicate Sample No: 40151705017DUP

Date Analyzed: 03/21/2018

Lab File ID: 032018.B\032018050.D

SDG No.: 40151705

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

RPD: ____ out of __0__ outside limits.

SAMPLE NO.

1659955BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151705 Contract: HUDSON RIVER REMEDIAL

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

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

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1659956LCS	1659956	032018.B\032018025.D	03/20/2018 18:52
1659957MS	1659957	032018.B\032018026.D	03/20/2018 19:08
FD1-170613-01-BB-19	40151705001	032018.B\032018031.D	03/20/2018 20:27
FD1-170613-01-BB-17	40151705002	032018.B\032018032.D	03/20/2018 20:42
FD1-170613-01-BB-16	40151705003	032018.B\032018033.D	03/20/2018 20:58
FD1-170613-01-BB-15	40151705004	032018.B\032018034.D	03/20/2018 21:14
FD1-170613-01-BB-14	40151705005	032018.B\032018035.D	03/20/2018 21:30
FD1-170613-01-BB-13	40151705006	032018.B\032018036.D	03/20/2018 21:46
FD1-170613-01-BB-12	40151705007	032018.B\032018037.D	03/20/2018 22:02
FD1-170613-01-BB-11	40151705008	032018.B\032018038.D	03/20/2018 22:17
FD1-170613-01-BB-10	40151705009	032018.B\032018039.D	03/20/2018 22:33
FD1-170613-01-BB-09	40151705010	032018.B\032018042.D	03/20/2018 23:21
FD1-170613-01-BB-08	40151705011	032018.B\032018043.D	03/20/2018 23:36
FD1-170613-01-BB-07	40151705012	032018.B\032018044.D	03/20/2018 23:52
FD1-170613-01-BB-06	40151705013	032018.B\032018045.D	03/21/2018 00:08
FD1-170613-01-BB-05	40151705014	032018.B\032018046.D	03/21/2018 00:24
FD1-170613-01-BB-04	40151705015	032018.B\032018047.D	03/21/2018 00:40
FD1-170613-01-BB-03	40151705016	032018.B\032018048.D	03/21/2018 00:55
FD1-170613-01-BB-02	40151705017	032018.B\032018049.D	03/21/2018 01:11
1659958DUP	1659958	032018.B\032018050.D	03/21/2018 01:27
FD1-170613-01-BB-01	40151705018	032018.B\032018051.D	03/21/2018 01:43

SAMPLE NO.

FD1-170613-01-BB-19

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705001

Date Analyzed: 03/20/2018 20:27

Lab File ID: 032018.B\032018031.D

Initial wt/vol: 10.0179 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)	158	
11097-69-1	PCB-1254 (Aroclor 1254)	51.5	
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	210	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018031.D
Lab Smp Id: 40151705001 Client Smp ID: FD1-170613-01-BB-19
Inj Date : 20-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705001,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.159	10895	9252	0.849	0.02			
1.179	10947	9358	0.855	0.02			
1.427	10299	10729	1.042	0.02			
1.535	10157	8240	0.811	0.02			
2.122	9221	6031	0.654	0.02			
2.289	12460	13330	1.070	0.03			
2.316	17520	15371	0.877	0.04			
2.407	20772	18858	0.908	0.05		1 Aroclor 1221	
2.484	11368427	11113355	0.978	29.28	$	2 Tetrachloro-m-xylene	
2.789	17963	17008	0.947	0.04		1 Aroclor 1221	
2.858	30997	21165	0.683	0.07		1 Aroclor 1221	
2.973	37797	24622	0.651	0.09			
3.017	20388	18142	0.890	0.05			
3.400	18697	15302	0.818	0.04			
3.643	14986	7534	0.503	0.03			
3.691	16763	14186	0.846	0.04			
3.731	21236	21340	1.005	0.05			
3.827	627350	549528	0.876	1.59			
3.927	29642	19373	0.654	0.07			
3.994	106072	98729	0.931	0.26			
4.051	27751	18260	0.658	0.07			
4.214	116288	114463	0.984	0.29			
4.240	62946	81529	1.295	0.15			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	388230	359098	0.925	0.98	6 Aroclor 1248
4.291	453320	359052	0.792	1.14	
4.416	302129	279152	0.924	0.76	
4.452	117460	105242	0.896	0.29	
4.545	711904	665104	0.934	1.80	6 Aroclor 1248
4.588	26063	23983	0.920	0.06	
4.617	64884	45380	0.699	0.16	
4.652	23894	18034	0.755	0.06	
4.677	24333	20355	0.837	0.06	
4.740	35162	23243	0.661	0.08	
4.768	146536	134593	0.918	0.37	
4.812	939836	887615	0.944	2.38	6 Aroclor 1248
4.848	278179	270057	0.971	0.70	
4.878	2215250	1865469	0.842	5.61	6 Aroclor 1248
4.955	105024	79529	0.757	0.26	
5.036	1239485	1136463	0.917	3.14	6 Aroclor 1248
5.100	288389	225647	0.782	0.73	
5.161	366388	309043	0.843	0.92	7 Aroclor 1254
5.212	511353	437320	0.855	1.29	
5.283	65499	55965	0.854	0.16	
5.309	120340	104885	0.872	0.30	
5.362	301666	228295	0.757	0.76	
5.406	447005	389828	0.872	1.13	7 Aroclor 1254
5.449	847484	726149	0.857	2.14	
5.509	952445	841675	0.884	2.41	7 Aroclor 1254
5.604	183139	154460	0.843	0.46	
5.674	88934	73235	0.823	0.22	
5.715	72935	56342	0.772	0.18	
5.739	189699	136337	0.719	0.48	
5.790	1135936	915589	0.806	2.87	
5.886	143015	64949	0.454	0.36	
5.991	91359	85688	0.938	0.23	
6.024	683278	580071	0.849	1.73	7 Aroclor 1254
6.054	251692	205369	0.816	0.63	
6.167	112179	66160	0.590	0.28	
6.243	99554	50398	0.506	0.25	
6.298	515853	432908	0.839	1.30	7 Aroclor 1254
6.333	70835	61431	0.867	0.17	
6.372	43500	28477	0.655	0.11	
6.432	51563	29410	0.570	0.13	
6.508	177694	159888	0.900	0.45	
6.535	120714	111240	0.922	0.30	
6.559	57076	42175	0.739	0.14	
6.611	13229	12711	0.961	0.03	
6.662	18805	17190	0.914	0.04	
6.716	81086	64074	0.790	0.20	
6.758	74014	59439	0.803	0.18	
6.801	75631	67783	0.896	0.19	
6.839	36401	24214	0.665	0.09	
6.940	76705	62532	0.815	0.19	
7.003	145493	128899	0.886	0.36	8 Aroclor 1260
7.033	22769	20897	0.918	0.05	
7.122	27830	16278	0.585	0.07	
7.249	97617	76071	0.779	0.24	8 Aroclor 1260
7.280	59519	36526	0.614	0.15	
7.339	31650	17338	0.548	0.08	
7.390	47797	45836	0.959	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.444	82515	53404	0.647	0.20	8 Aroclor 1260
7.487	33849	21997	0.650	0.08	
7.524	33824	21377	0.632	0.08	
7.583	12040	13371	1.111	0.03	
7.661	10752	12633	1.175	0.02	
7.691	22457	24872	1.108	0.05	
7.725	55492	39919	0.719	0.14	
7.762	24037	16853	0.701	0.06	
7.806	65469	27868	0.426	0.16	
7.899	56397	36993	0.656	0.14	8 Aroclor 1260
7.953	37009	20191	0.546	0.09	
8.050	58793	44796	0.762	0.14	
8.275	92324	82609	0.895	0.23	
8.376	44472	32335	0.727	0.11	
8.448	19383	16566	0.855	0.04	
8.570	10076455	8842697	0.878	25.54	$ 12 Decachlorobiphenyl
8.718	10999	10071	0.916	0.02	
9.167	215738	180857	0.838	0.54	
9.470	9722	7965	0.819	0.02	
	39451065	35228170		100.000	

Total unknown % area = 23

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018031.D
Lab Smp Id: 40151705001 Client Smp ID: FD1-170613-01-BB-19
Inj Date : 20-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705001,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	11368426	0.09221	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			
4.260	4.261	-0.001	388230	0.16570	83	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	711904	0.17153	86	0.00- 20.00	183.37	BA
4.812	4.812	0.000	939835	0.46295	230	0.00- 20.00	242.08	BA
4.877	4.879	-0.002	2215250	0.43976	220	0.00- 20.00	570.60	BA
5.036	5.038	-0.002	1239485	0.34540	170	0.00- 20.00	319.27	BA
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	366387	0.06998	35	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	447005	0.10393	52	0.00- 20.00	122.00	BA
5.508	5.510	-0.002	952444	0.12264	61	0.00- 20.00	259.96	BA
6.023	6.027	-0.004	683278	0.14031	70	0.00- 20.00	186.49	BA
6.297	6.299	-0.002	515853	0.07928	40	0.00- 20.00	140.79	BA
Average of Peak Concentrations =					52			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10076455	0.09197	46			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018031.D

Date : 20-MAR-2018 20:27

Client ID: FD1-170613-01-BB-19

Instrument: 40GCSJ.i

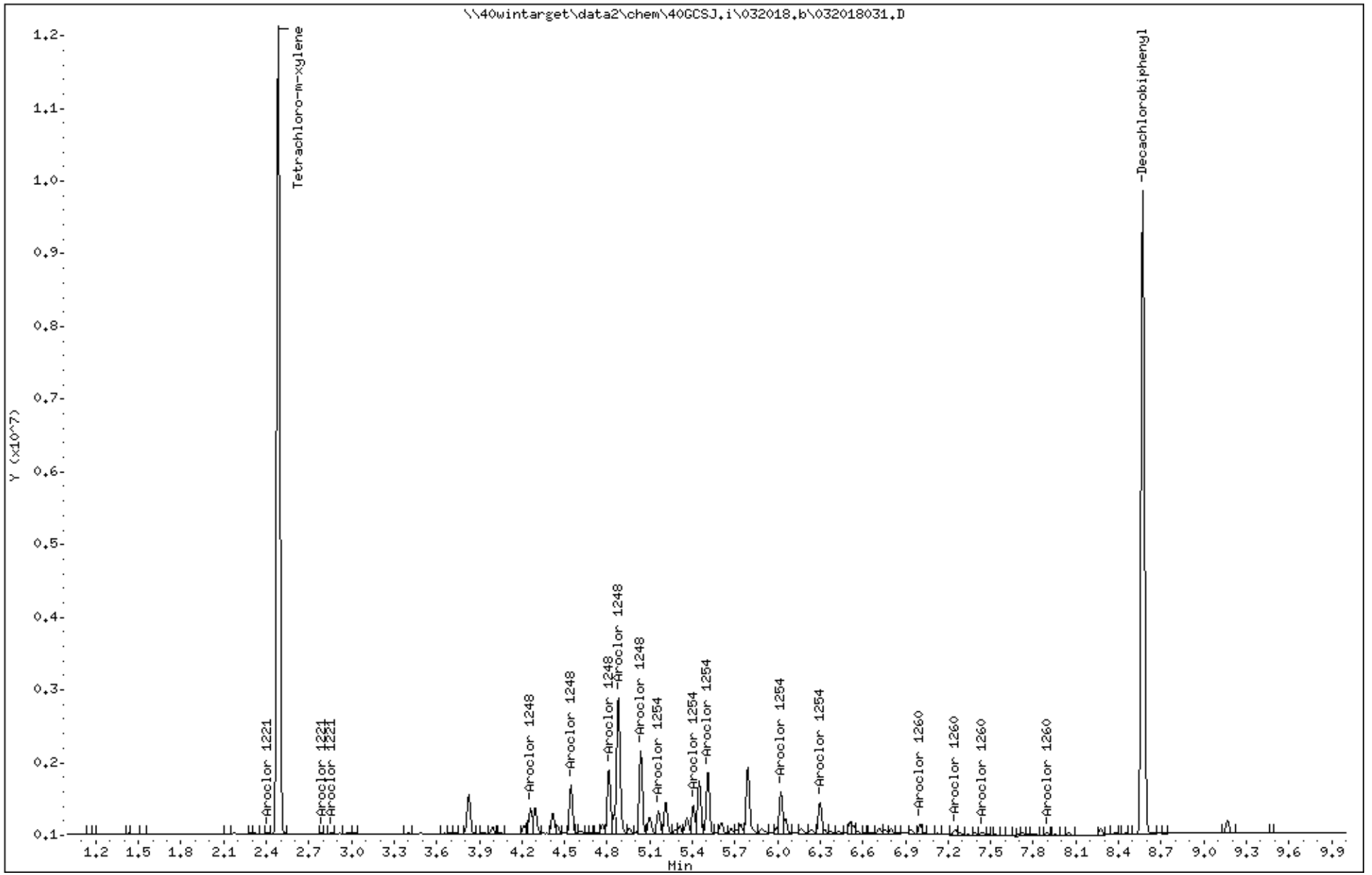
Sample Info: 40151705001,

Volume Injected (uL): 1.0

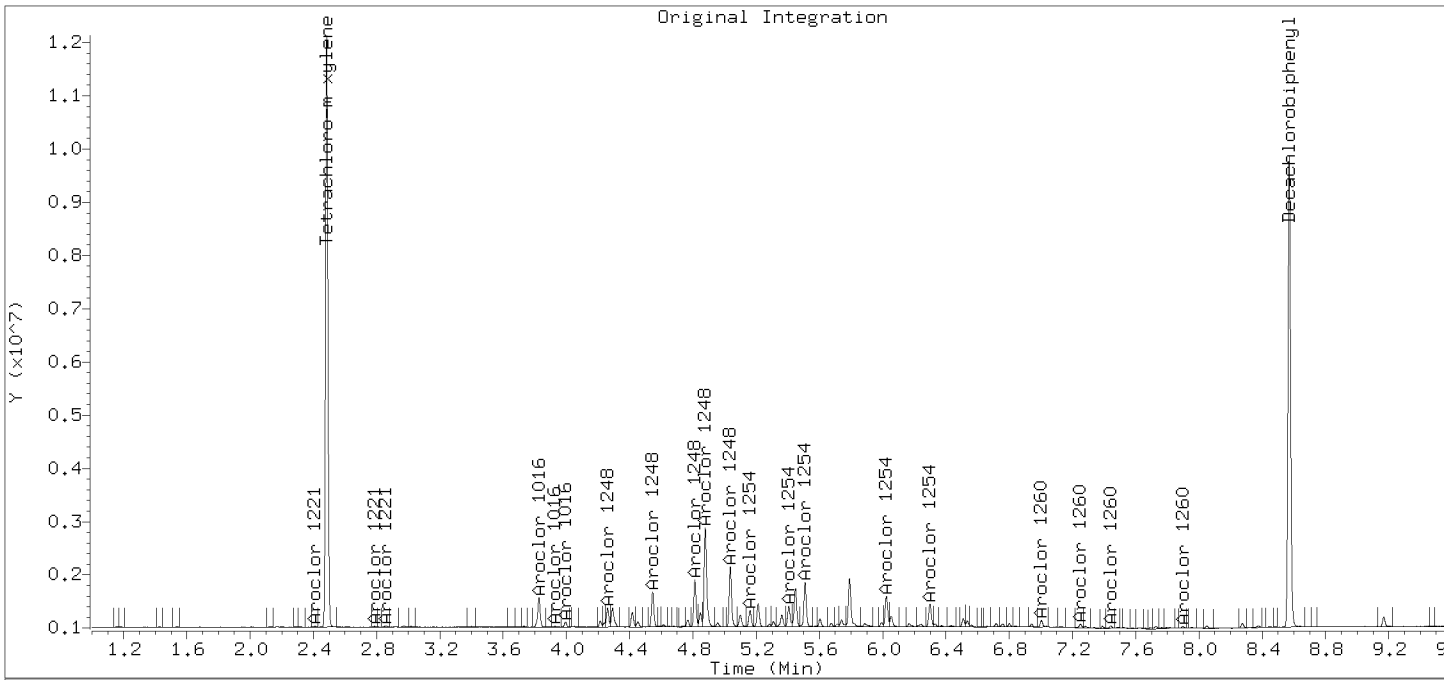
Operator: BLM

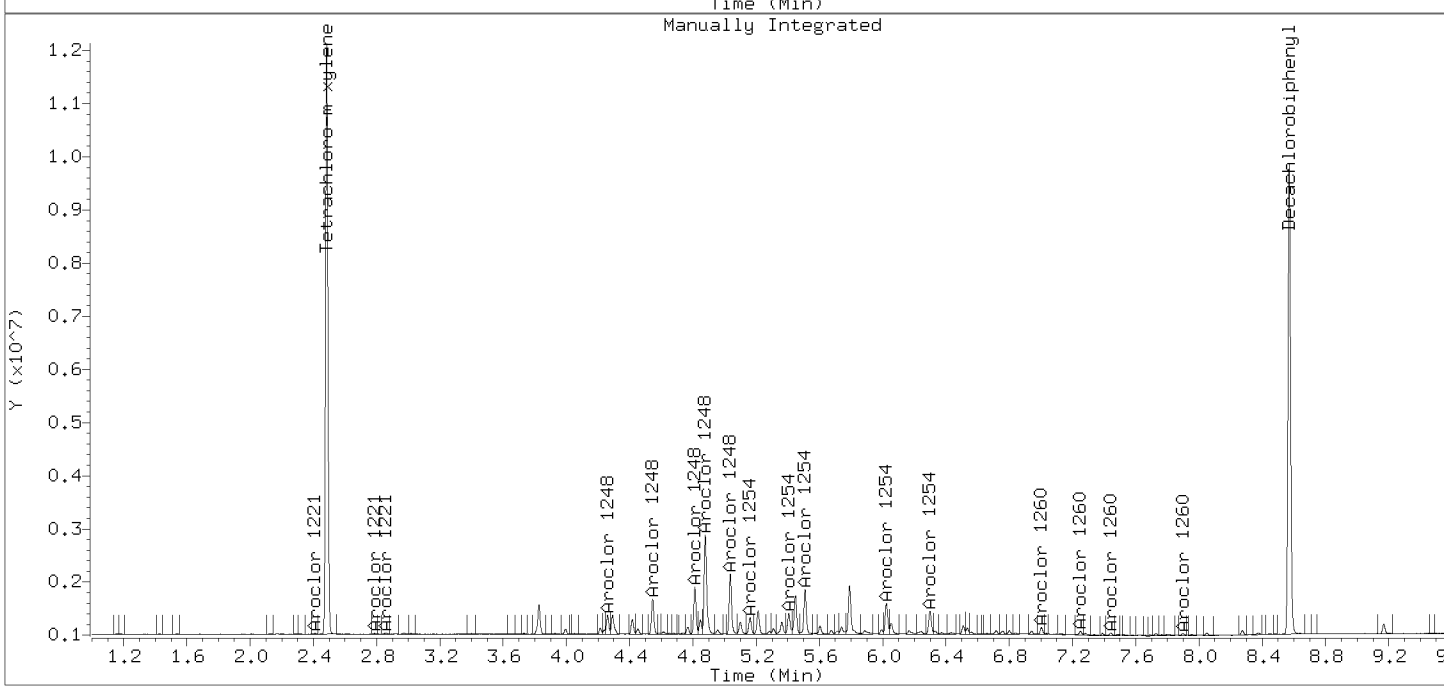
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705001





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	378608	388230	BA
Aroclor 1248	378608	388230	BA
Aroclor 1248	378608	388230	BA
Aroclor 1248	378608	388230	BA
Aroclor 1248	378608	388230	BA
Aroclor 1254	343078	366387	BA
Aroclor 1254	343078	366387	BA
Aroclor 1254	343078	366387	BA
Aroclor 1254	343078	366387	BA
Aroclor 1254	343078	366387	BA
Aroclor 1260	501533	0	BA
Aroclor 1260	501533	0	BA
Aroclor 1260	501533	0	BA
Aroclor 1260	501533	0	BA
Aroclor 1260	501533	0	BA
Tetrachloro-m-xylene	11368426	11368426	
Decachlorobiphenyl	10076455	10076455	

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SAMPLE NO.

FD1-170613-01-BB-17

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705002
Date Analyzed: 03/20/2018 20:42
Lab File ID: 032018.B\032018032.D
Initial wt/vol: 9.9736 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018032.D
Lab Smp Id: 40151705002 Client Smp ID: FD1-170613-01-BB-17
Inj Date : 20-MAR-2018 20:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705002,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	14168	10569	0.746	0.05		
1.491	10452	7144	0.684	0.04		
2.168	15300	14494	0.947	0.06		
2.291	22681	21754	0.959	0.09		
2.314	26189	23832	0.910	0.11		
2.409	21100	21099	1.000	0.08	1 Aroclor 1221	
2.484	11279059	10903649	0.967	47.96	$ 2 Tetrachloro-m-xylene	
2.785	20601	17538	0.851	0.08	1 Aroclor 1221	
2.864	27690	17472	0.631	0.11	1 Aroclor 1221	
2.917	13142	9500	0.723	0.05		
3.018	11866	10848	0.914	0.05		
3.401	10703	10111	0.945	0.04		
3.825	23916	16314	0.682	0.10		
3.993	10285	8706	0.846	0.04		
4.050	15528	12177	0.784	0.06		
4.241	59264	49359	0.833	0.25	6 Aroclor 1248	
4.418	9999	8377	0.838	0.04		
4.545	13998	12388	0.885	0.05	6 Aroclor 1248	
4.604	18904	15855	0.839	0.07		
4.652	20360	13200	0.648	0.08		
4.767	11089	10758	0.970	0.04		
4.811	24385	19111	0.784	0.10	6 Aroclor 1248	
4.844	11940	11382	0.953	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.878	38462	24616	0.640	0.16	6 Aroclor 1248
5.036	19456	16005	0.823	0.08	6 Aroclor 1248
5.101	22412	16749	0.747	0.09	
5.160	26314	20571	0.782	0.11	7 Aroclor 1254
5.213	24456	22529	0.921	0.10	
5.309	18799	18702	0.995	0.07	
5.346	41124	35344	0.859	0.17	
5.405	14274	15478	1.084	0.06	7 Aroclor 1254
5.451	139704	141480	1.013	0.59	
5.508	45944	40492	0.881	0.19	7 Aroclor 1254
5.673	26303	22275	0.847	0.11	
5.789	81166	66143	0.815	0.34	
5.823	21769	16801	0.772	0.09	
5.995	27441	23802	0.867	0.11	
6.026	41566	36734	0.884	0.17	7 Aroclor 1254
6.056	44475	38793	0.872	0.18	
6.168	25108	18366	0.731	0.10	
6.236	12339	10224	0.829	0.05	
6.299	111907	92757	0.829	0.47	7 Aroclor 1254
6.431	19034	13773	0.724	0.08	
6.510	116519	75735	0.650	0.49	
6.562	43885	25105	0.572	0.18	
6.660	17906	11621	0.649	0.07	
6.718	39208	28736	0.733	0.16	
6.757	35617	30227	0.849	0.15	
6.801	18531	16088	0.868	0.07	
6.840	12351	9589	0.776	0.05	
6.941	24002	20308	0.846	0.10	
7.003	64249	58418	0.909	0.27	8 Aroclor 1260
7.032	13063	11695	0.895	0.05	
7.122	21251	13272	0.625	0.08	
7.248	29594	29450	0.995	0.12	8 Aroclor 1260
7.279	26658	16240	0.609	0.11	
7.338	30368	16263	0.536	0.12	
7.390	26361	23491	0.891	0.11	
7.445	34648	24169	0.698	0.14	8 Aroclor 1260
7.579	11321	10634	0.939	0.04	
7.695	19635	18310	0.933	0.08	
7.726	48795	39212	0.804	0.20	
7.798	23620	14250	0.603	0.09	
7.897	25334	18333	0.724	0.10	8 Aroclor 1260
8.274	95850	75707	0.790	0.40	
8.453	10735	9525	0.887	0.04	
8.570	10277781	8791925	0.855	43.42	$ 12 Decachlorobiphenyl
9.168	104172	91900	0.882	0.44	
	23666127	21417474		100.000	

Total unknown % area = 6.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018032.D
Lab Smp Id: 40151705002 Client Smp ID: FD1-170613-01-BB-17
Inj Date : 20-MAR-2018 20:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705002,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.483	2.484	-0.001	11279058	0.09148	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

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

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6 Aroclor 1248 CAS #: 12672-29-6

Qualifier signal(s) failed ratio test.

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7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test.

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8 Aroclor 1260 CAS #: 11096-82-5

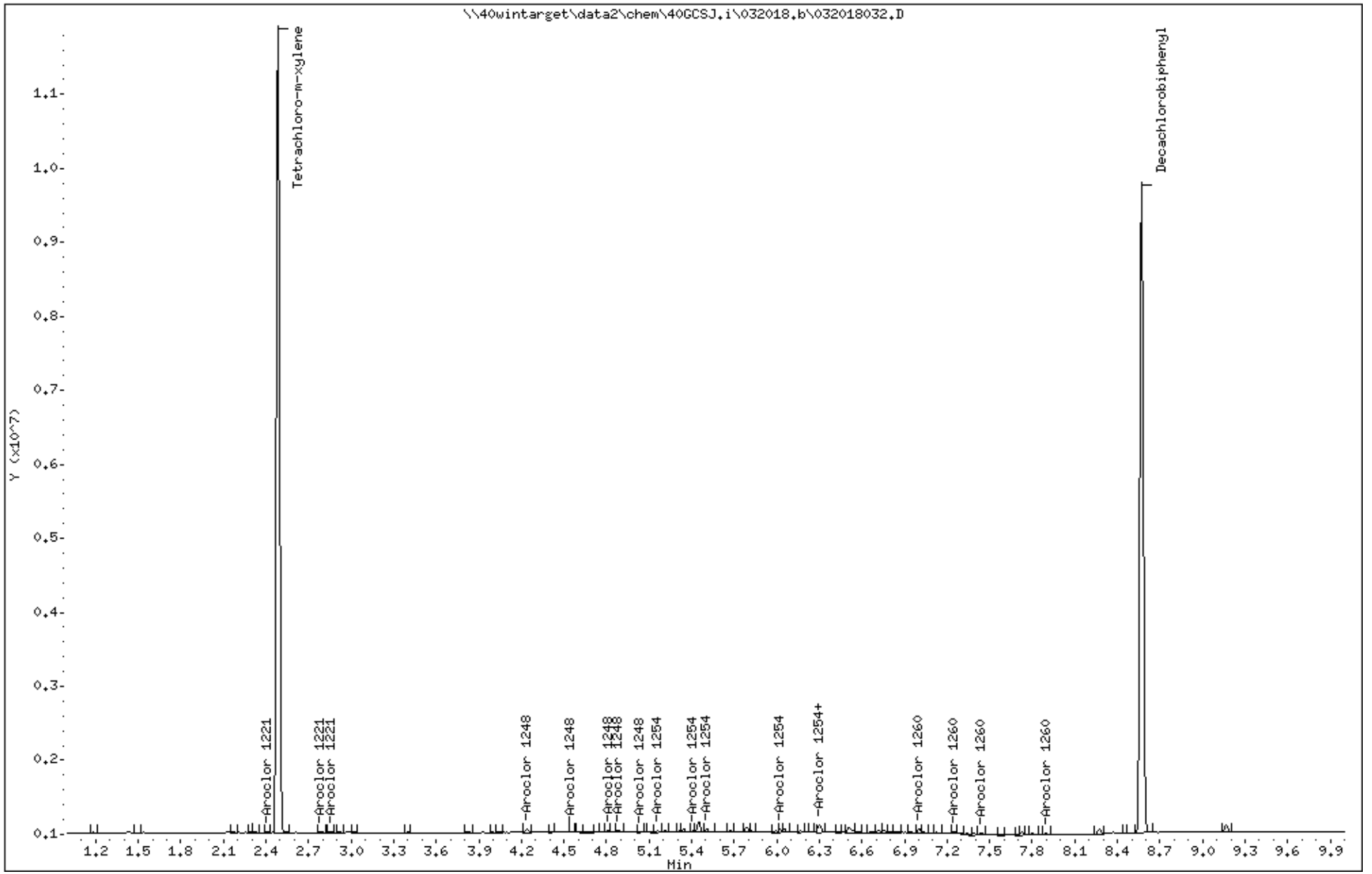
Qualifier signal(s) failed ratio test.

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

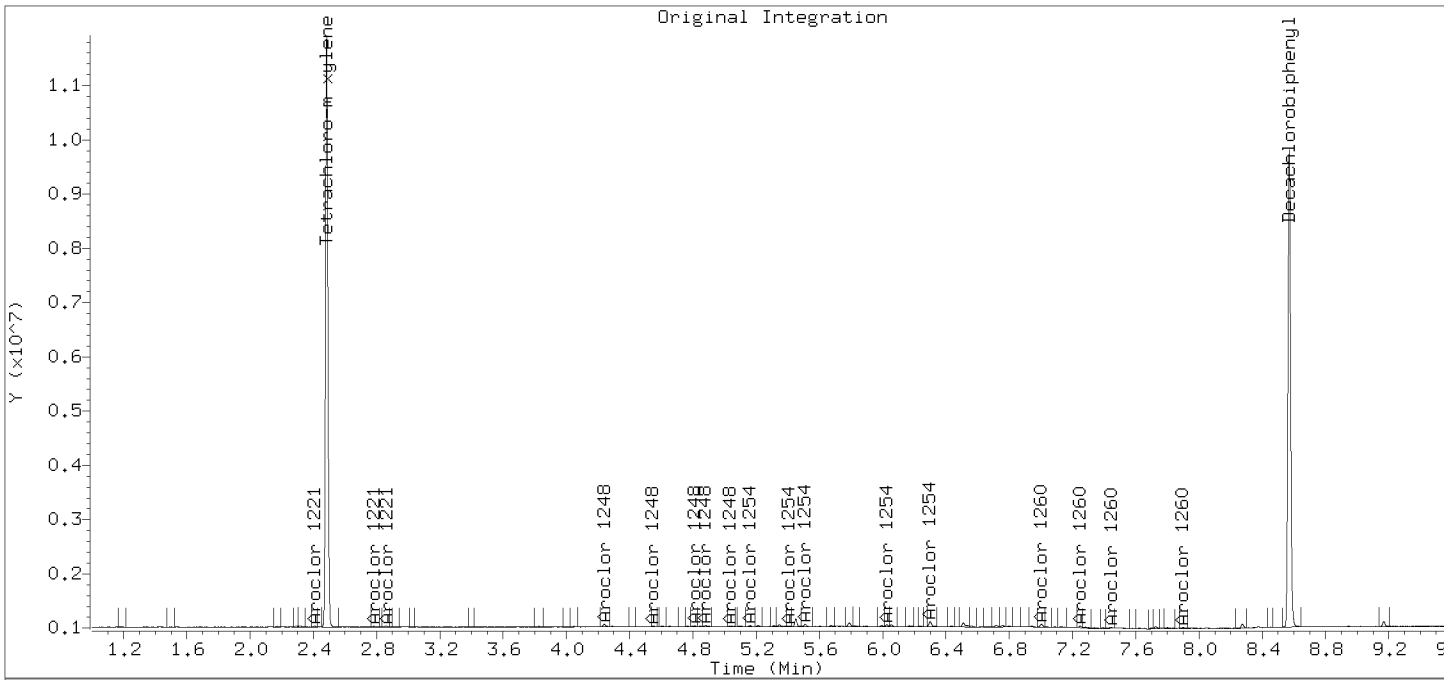
8.570	8.571	-0.001	10277780	0.09381	47			

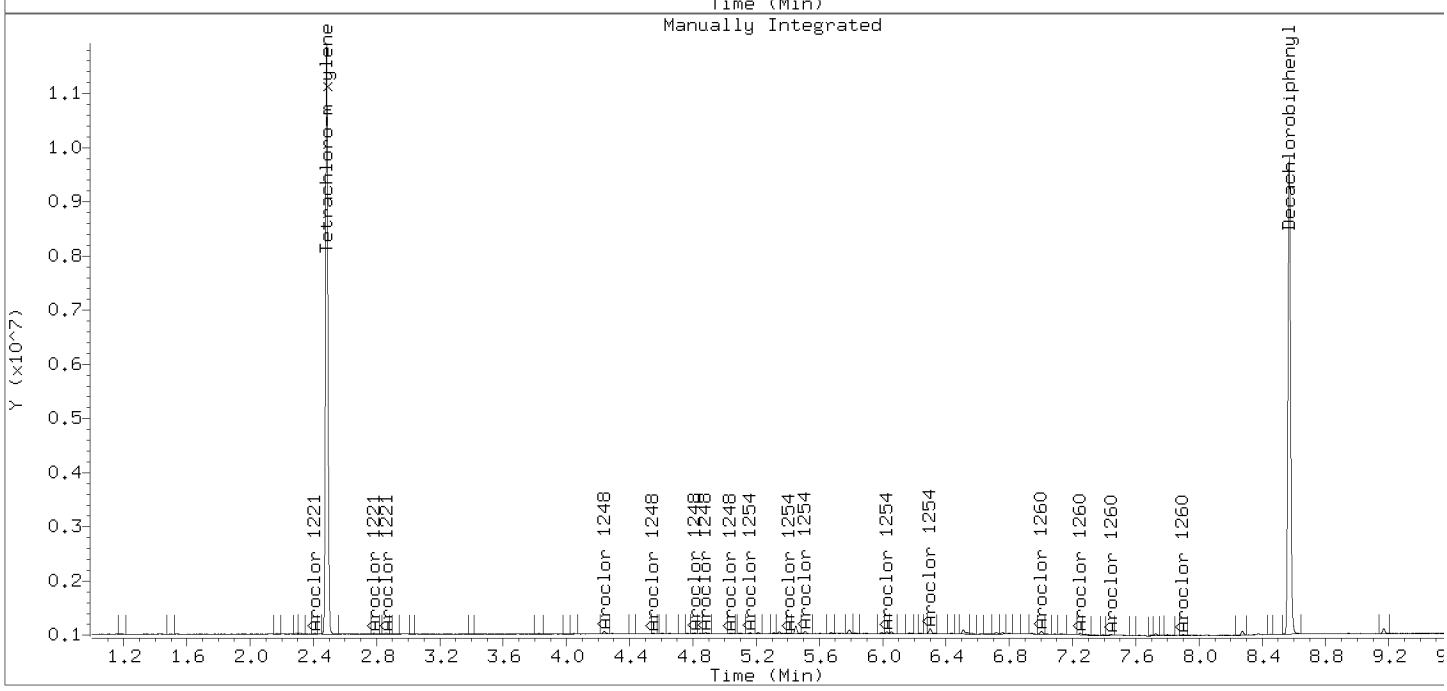
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018032.D
Date : 20-MAR-2018 20:42
Client ID: FD1-170613-01-BB-17
Sample Info: 40151705002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 20:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705002





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	59263	0
Aroclor 1248	59263	0
Aroclor 1248	59263	0
Aroclor 1248	59263	0
Aroclor 1248	59263	0
Aroclor 1254	26314	0
Aroclor 1254	26314	0
Aroclor 1254	26314	0
Aroclor 1254	26314	0
Aroclor 1254	26314	0
Aroclor 1260	111906	0
Aroclor 1260	111906	0
Aroclor 1260	111906	0
Aroclor 1260	111906	0
Aroclor 1260	111906	0
Tetrachloro-m-xylene	11279058	11279058
Decachlorobiphenyl	10277780	10277780

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SAMPLE NO.

FD1-170613-01-BB-16

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705003

Date Analyzed: 03/20/2018 20:58

Lab File ID: 032018.B\032018033.D

Initial wt/vol: 9.9774 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)	65.3	
11097-69-1	PCB-1254 (Aroclor 1254)	30.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	16.0	J
1336-36-3	PCB, Total	112	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018033.D
Lab Smp Id: 40151705003 Client Smp ID: FD1-170613-01-BB-16
Inj Date : 20-MAR-2018 20:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705003,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	10460	9437	0.902	0.02		
1.183	10502	10128	0.964	0.02		
1.428	12786	11467	0.897	0.03		
2.012	12865	9065	0.705	0.03		
2.173	10592	8577	0.810	0.03		
2.198	9571	6880	0.719	0.02		
2.408	21191	19465	0.919	0.06		
2.485	12108716	11570311	0.956	35.01	$ 2 Tetrachloro-m-xylene	
2.787	25357	20401	0.805	0.07		
2.858	30251	20704	0.684	0.08		
2.972	24306	18343	0.755	0.06		
3.017	9220	10978	1.191	0.02		
3.827	132444	109563	0.827	0.37		
3.994	26337	24857	0.944	0.07		
4.048	20218	13180	0.652	0.05		
4.215	33896	30076	0.887	0.09		
4.241	63113	63699	1.009	0.17		
4.261	90254	84179	0.933	0.25	6 Aroclor 1248	BA
4.292	207703	152353	0.734	0.59		
4.417	106073	95036	0.896	0.30		
4.452	41441	28707	0.693	0.11		
4.545	211357	183216	0.867	0.60	6 Aroclor 1248	BA
4.591	20220	19433	0.961	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.613	43569	24902	0.572	0.12	
4.650	22356	19435	0.869	0.06	
4.739	21956	18358	0.836	0.06	
4.767	90082	73937	0.821	0.25	
4.812	438452	405866	0.926	1.24	6 Aroclor 1248
4.849	68806	63919	0.929	0.19	
4.878	1010820	857569	0.848	2.88	6 Aroclor 1248
4.956	43100	30086	0.698	0.12	
5.037	523272	472647	0.903	1.49	6 Aroclor 1248
5.101	168273	125889	0.748	0.47	
5.158	125642	95878	0.763	0.35	7 Aroclor 1254
5.212	190565	160625	0.843	0.54	
5.282	48751	42594	0.874	0.13	
5.312	103255	86324	0.836	0.29	
5.362	147964	91075	0.616	0.42	
5.407	209551	177564	0.847	0.59	7 Aroclor 1254
5.451	950037	874359	0.920	2.70	
5.509	439356	378715	0.862	1.25	7 Aroclor 1254
5.604	89963	76645	0.852	0.25	
5.674	106583	89909	0.844	0.30	
5.711	65916	49595	0.752	0.18	
5.740	128499	97645	0.760	0.36	
5.791	814269	638876	0.785	2.32	
5.887	122822	51268	0.417	0.35	
5.993	118641	116092	0.979	0.33	
6.023	456911	383084	0.838	1.30	7 Aroclor 1254
6.055	119334	106618	0.893	0.34	
6.119	15662	14900	0.951	0.04	
6.169	127297	79749	0.626	0.36	
6.243	99481	54096	0.544	0.28	
6.300	523116	433625	0.829	1.49	7 Aroclor 1254
6.332	63155	51939	0.822	0.17	
6.373	30140	25218	0.837	0.08	
6.434	60120	39660	0.660	0.17	
6.509	256613	235374	0.917	0.73	
6.534	167543	120033	0.716	0.47	
6.607	16645	14866	0.893	0.04	
6.660	33298	26174	0.786	0.09	
6.716	115400	100453	0.870	0.32	
6.757	109159	95290	0.873	0.31	
6.801	106355	91187	0.857	0.30	
6.838	38313	31814	0.830	0.10	
6.943	87492	77342	0.884	0.24	
7.003	294633	265404	0.901	0.83	8 Aroclor 1260
7.034	44519	29599	0.665	0.12	
7.100	17640	16302	0.924	0.05	
7.124	19050	14519	0.762	0.05	
7.251	150306	130352	0.867	0.42	8 Aroclor 1260
7.281	61147	47205	0.772	0.17	
7.334	13405	10770	0.803	0.03	
7.389	96866	85895	0.887	0.27	
7.443	109164	97235	0.891	0.31	8 Aroclor 1260
7.484	40748	27444	0.674	0.11	
7.527	49337	34884	0.707	0.14	
7.581	10132	10801	1.066	0.02	
7.691	39463	36131	0.916	0.11	
7.726	61316	45955	0.749	0.17	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.764	35364	29524	0.835	0.10	
7.804	45120	27148	0.602	0.12	
7.833	16092	16262	1.011	0.04	
7.899	78464	65219	0.831	0.22	8 Aroclor 1260
7.955	66567	49152	0.738	0.18	
8.048	58859	51360	0.873	0.16	
8.274	112232	98254	0.875	0.31	
8.317	23629	17181	0.727	0.06	
8.375	118078	73946	0.626	0.33	
8.449	41072	34813	0.848	0.11	
8.481	29656	20784	0.701	0.08	
8.570	10980577	9470249	0.862	31.29	$ 12 Decachlorobiphenyl
8.642	38756	26695	0.689	0.11	
8.719	24664	19954	0.809	0.07	
8.942	18197	12594	0.692	0.05	
9.168	604289	536980	0.889	1.72	
9.465	15065	9638	0.640	0.04	
9.965	14293	9145	0.640	0.04	
	35086107	31042643		100.000	

Total unknown % area = 20

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018033.D
Lab Smp Id: 40151705003 Client Smp ID: FD1-170613-01-BB-16
Inj Date : 20-MAR-2018 20:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705003,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	9.977	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	12108716	0.09821	49			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	90254	0.03852	19	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	211357	0.05093	26	0.00- 20.00	234.18	BA
4.812	4.812	0.000	438452	0.21598	110	0.00- 20.00	485.80	BA
4.878	4.879	-0.001	1010819	0.20066	100	0.00- 20.00	1119.97	BA
5.036	5.038	-0.002	523272	0.14582	73	0.00- 20.00	579.78	BA
Average of Peak Concentrations =					65			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	125641	0.02400	12	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	209550	0.04872	24	0.00- 20.00	166.78	BA
5.508	5.510	-0.002	439355	0.05657	28	0.00- 20.00	349.69	BA
6.023	6.027	-0.004	456910	0.09383	47	0.00- 20.00	363.66	BA
6.298	6.299	-0.001	523115	0.08039	40	0.00- 20.00	416.36	BA
Average of Peak Concentrations =					30			
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	294633	0.02942	15	0.00- 20.00	56.32	BA
7.250	7.251	-0.001	150305	0.03145	16	0.00- 20.00	28.73	BA
7.442	7.443	-0.001	109163	0.03745	19	0.00- 20.00	20.87	BA
7.898	7.901	-0.003	78464	0.02974	15	0.00- 20.00	15.00	BA
Average of Peak Concentrations =					16			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10980577	0.10022	50			

QC Flag Legend

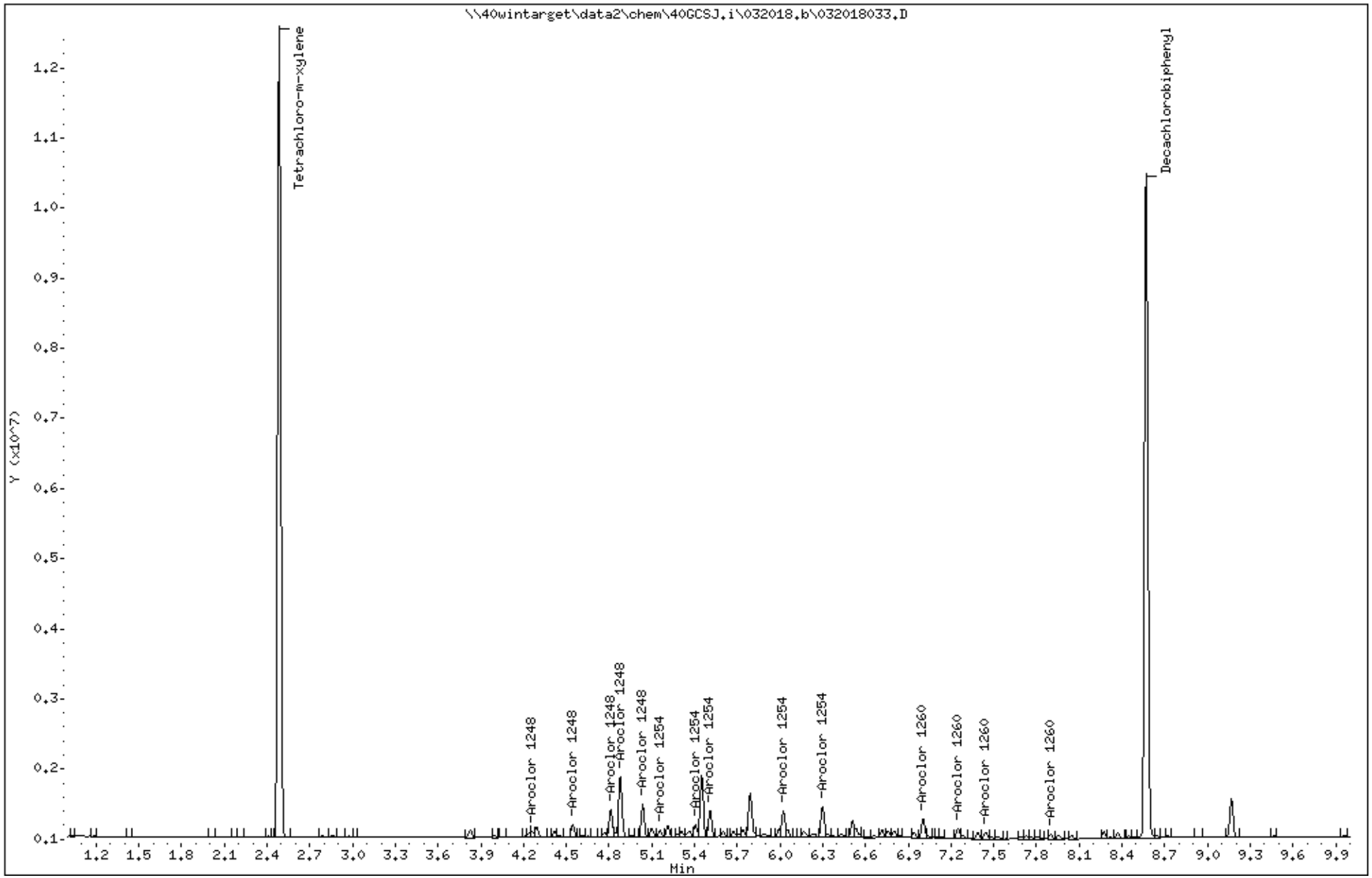
M - Compound response manually integrated.

Review Codes Legend

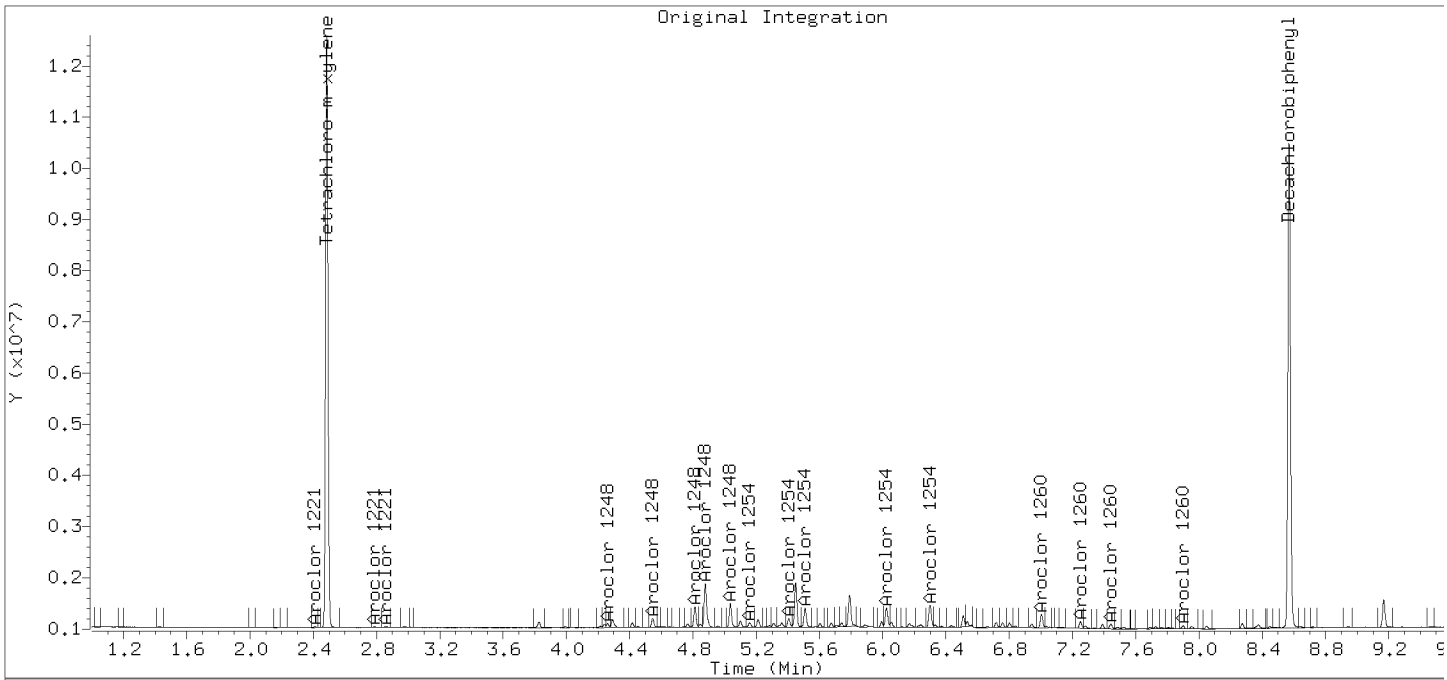
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

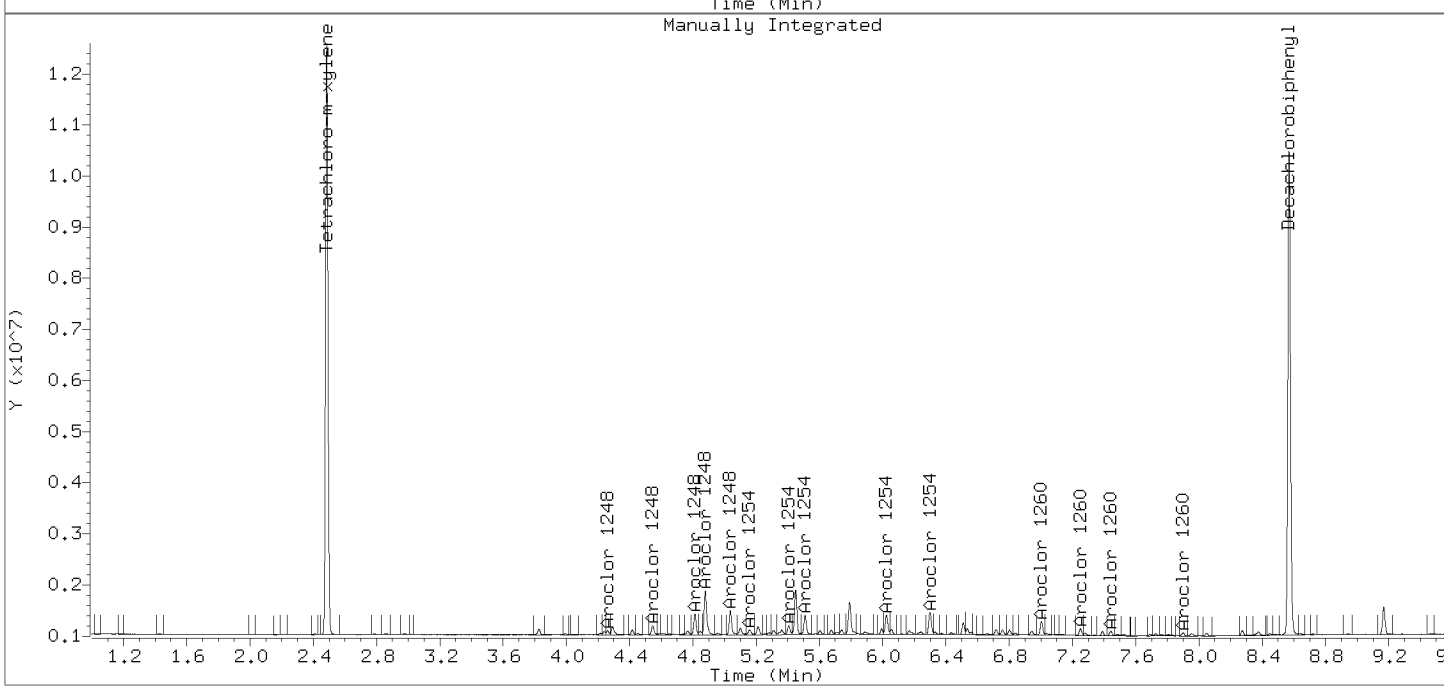
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018033.D
Date : 20-MAR-2018 20:58
Client ID: FD1-170613-01-BB-16
Sample Info: 40151705003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 20:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705003





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	85859	90254	BA
Aroclor 1248	85859	90254	BA
Aroclor 1248	85859	90254	BA
Aroclor 1248	85859	90254	BA
Aroclor 1248	85859	90254	BA
Aroclor 1254	101352	125641	BA
Aroclor 1254	101352	125641	BA
Aroclor 1254	101352	125641	BA
Aroclor 1254	101352	125641	BA
Aroclor 1254	101352	125641	BA
Aroclor 1260	515232	0	BA
Aroclor 1260	515232	0	BA
Aroclor 1260	515232	0	BA
Aroclor 1260	515232	0	BA
Aroclor 1260	515232	0	BA
Tetrachloro-m-xylene	12108716	12108716	
Decachlorobiphenyl	10980577	10980577	

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SAMPLE NO.

FD1-170613-01-BB-15

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705004
Date Analyzed: 03/20/2018 21:14
Lab File ID: 032018.B\032018034.D
Initial wt/vol: 10.0227 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)	27.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	18.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	46.1	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018034.D
Lab Smp Id: 40151705004 Client Smp ID: FD1-170613-01-BB-15
Inj Date : 20-MAR-2018 21:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705004,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
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	10.023	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	10195	8766	0.860	0.03		
1.540	14178	9845	0.694	0.04		
2.122	11952	8131	0.680	0.04		
2.169	11045	10265	0.929	0.03		
2.293	23750	22475	0.946	0.07		
2.318	18948	17427	0.920	0.06		
2.411	28308	24411	0.862	0.09		
2.484	11664504	10875550	0.932	39.65	$ 2 Tetrachloro-m-xylene	
2.788	20826	17566	0.843	0.06		
2.861	30257	19816	0.655	0.10		
2.922	11880	11709	0.986	0.03		
2.974	28674	14747	0.514	0.09		
3.021	16523	12737	0.771	0.05		
3.399	14892	11471	0.770	0.04		
3.828	62453	48972	0.784	0.20		
3.999	13904	11725	0.843	0.04		
4.051	20750	17335	0.835	0.06		
4.217	27697	21733	0.785	0.09		
4.237	60562	59568	0.984	0.20		
4.261	41957	42038	1.002	0.14	6 Aroclor 1248	CO
4.292	89502	67541	0.755	0.30		
4.416	52806	44849	0.849	0.17		
4.453	26011	21545	0.828	0.08		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.546	100063	83078	0.830	0.33	6 Aroclor 1248
4.608	33891	21796	0.643	0.11	
4.648	32170	16953	0.527	0.10	
4.767	50990	40666	0.798	0.17	
4.813	200641	177546	0.885	0.67	6 Aroclor 1248
4.847	31803	33381	1.050	0.10	
4.877	461356	369444	0.801	1.54	6 Aroclor 1248
4.956	34783	21105	0.607	0.11	
5.037	150383	141530	0.941	0.50	6 Aroclor 1248
5.053	24376	27753	1.139	0.08	
5.101	109008	78934	0.724	0.36	
5.159	82673	65432	0.791	0.27	7 Aroclor 1254
5.213	119871	97918	0.817	0.40	
5.279	32693	26744	0.818	0.10	
5.312	65296	54517	0.835	0.21	
5.346	33320	43600	1.309	0.11	
5.362	80415	57856	0.719	0.26	
5.406	120814	102448	0.848	0.40	7 Aroclor 1254
5.450	626092	575009	0.918	2.10	
5.509	248610	219139	0.881	0.83	7 Aroclor 1254
5.604	70331	49309	0.701	0.23	
5.676	84531	72496	0.858	0.28	
5.710	45163	33836	0.749	0.15	
5.742	76066	59979	0.789	0.25	
5.790	471011	395959	0.841	1.58	
5.821	62699	41238	0.658	0.21	
5.886	68693	29328	0.427	0.23	
5.992	83923	80352	0.957	0.28	
6.023	261007	223166	0.855	0.87	7 Aroclor 1254
6.055	106174	89404	0.842	0.35	
6.118	21113	12761	0.604	0.07	
6.167	103172	57253	0.555	0.34	
6.235	30138	27517	0.913	0.10	
6.242	40758	38421	0.943	0.13	
6.299	378132	310103	0.820	1.26	7 Aroclor 1254
6.332	42713	37461	0.877	0.14	
6.372	24642	18826	0.764	0.08	
6.433	42631	28587	0.671	0.14	
6.508	176244	164887	0.936	0.59	
6.534	120793	81572	0.675	0.40	
6.605	9953	9935	0.998	0.03	
6.659	19480	17811	0.914	0.06	
6.717	86913	71855	0.827	0.29	
6.758	74038	66464	0.898	0.24	
6.801	73626	60728	0.825	0.24	
6.838	35669	21515	0.603	0.11	
6.941	61581	53493	0.869	0.20	
7.004	171742	159644	0.930	0.57	8 Aroclor 1260
7.035	19167	19617	1.023	0.06	
7.122	21630	13096	0.605	0.07	
7.251	98335	83743	0.852	0.33	8 Aroclor 1260
7.280	44957	33413	0.743	0.15	
7.332	11161	10610	0.951	0.03	
7.389	60418	55967	0.926	0.20	
7.442	67644	55437	0.820	0.22	8 Aroclor 1260
7.484	28714	18187	0.633	0.09	
7.524	29547	19820	0.671	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.580	11101	9907	0.892	0.03	
7.690	26645	26210	0.984	0.08	
7.725	48848	40646	0.832	0.16	
7.761	24544	17833	0.727	0.08	
7.800	31090	20887	0.672	0.10	
7.898	51660	39311	0.761	0.17	8 Aroclor 1260
7.952	40040	26627	0.665	0.13	
8.049	38613	33911	0.878	0.12	
8.272	107552	90766	0.844	0.36	
8.317	16387	14614	0.892	0.05	
8.376	75436	44860	0.595	0.25	
8.447	36008	21155	0.588	0.12	
8.479	25333	15755	0.622	0.08	
8.570	10658730	9167416	0.860	35.78	$ 12 Decachlorobiphenyl
8.639	24515	18209	0.743	0.08	
8.718	9678	9494	0.981	0.03	
8.941	15084	8953	0.594	0.05	
9.168	360141	314391	0.873	1.20	
9.959	19775	14993	0.758	0.06	
	29786505	26214799		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018034.D
Lab Smp Id: 40151705004 Client Smp ID: FD1-170613-01-BB-15
Inj Date : 20-MAR-2018 21:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705004,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
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	10.023	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	11664503	0.09461	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			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	41956	0.01791	8.9	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	100062	0.02411	12	0.00- 20.00	238.49	CO
4.812	4.812	0.000	200640	0.09883	49	0.00- 20.00	478.22	CO
4.877	4.879	-0.002	461355	0.09159	46	0.00- 20.00	1099.62	CO
5.036	5.038	-0.002	150383	0.04191	21	0.00- 20.00	358.43	CO
Average of Peak Concentrations =					27			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	82672	0.01579	7.9	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	120813	0.02809	14	0.00- 20.00	146.14	BA
5.509	5.510	-0.001	248609	0.03201	16	0.00- 20.00	300.72	BA
6.023	6.027	-0.004	261007	0.05360	27	0.00- 20.00	315.71	BA
6.299	6.299	0.000	378131	0.05811	29	0.00- 20.00	457.39	BA
Average of Peak Concentrations =					19			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10658729	0.09729	48			

QC Flag Legend

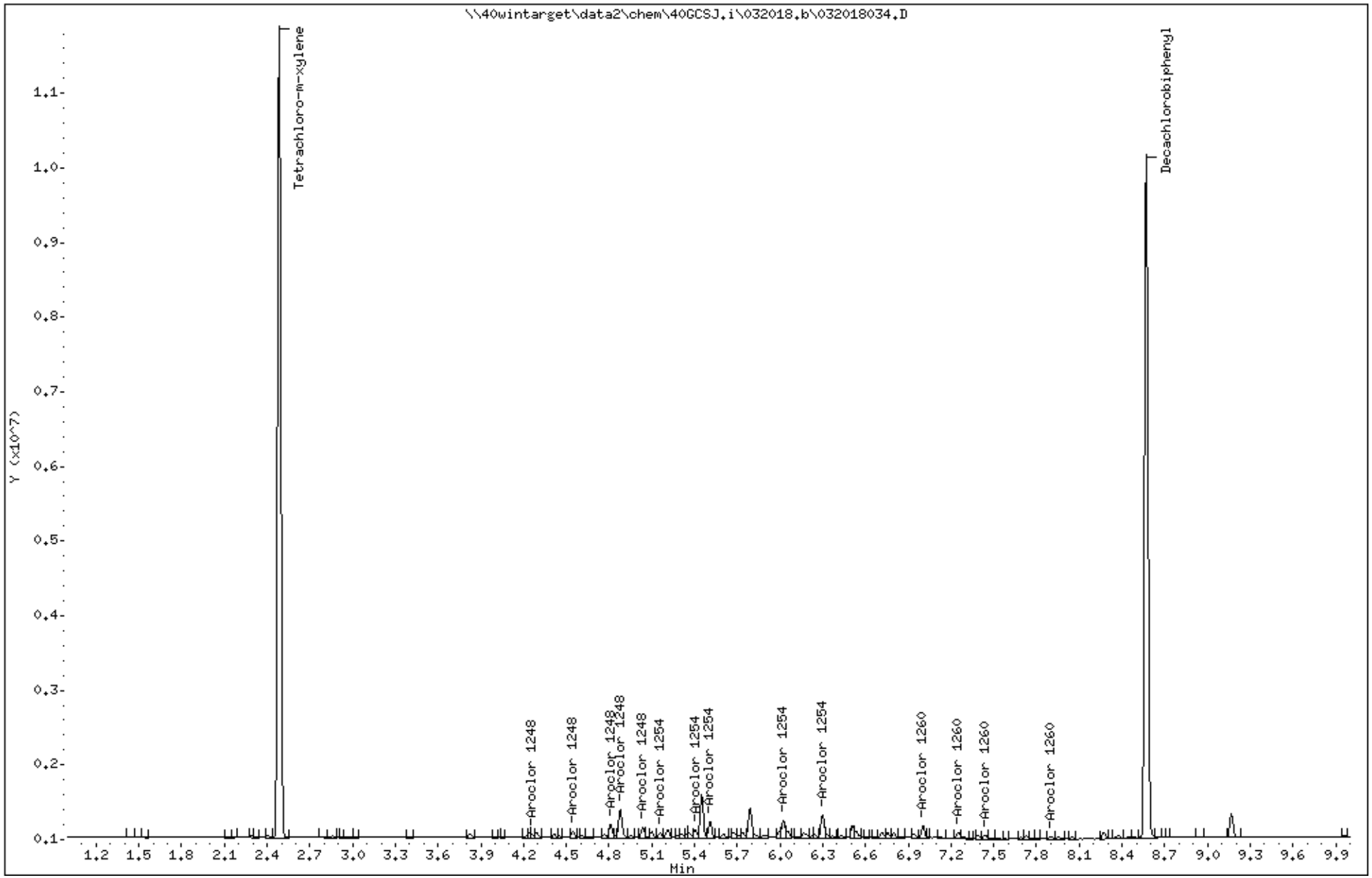
M - Compound response manually integrated.

Review Codes Legend

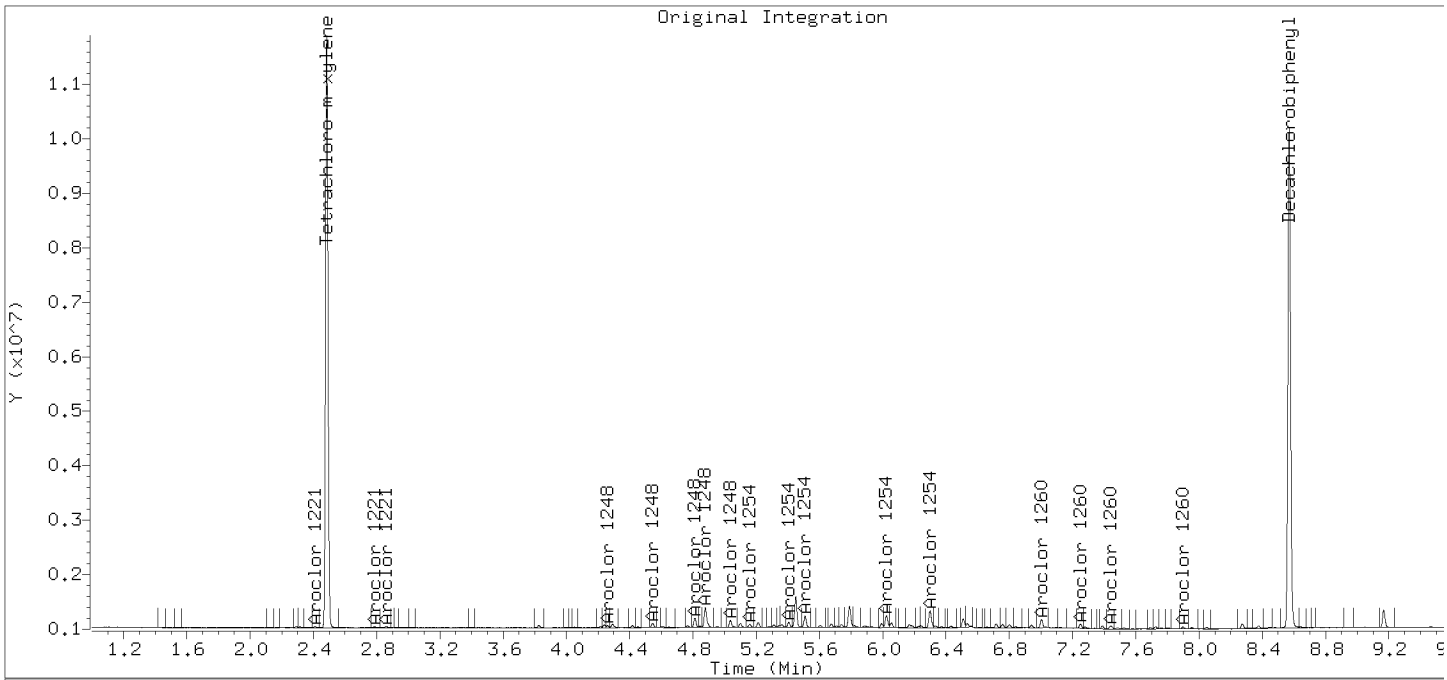
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

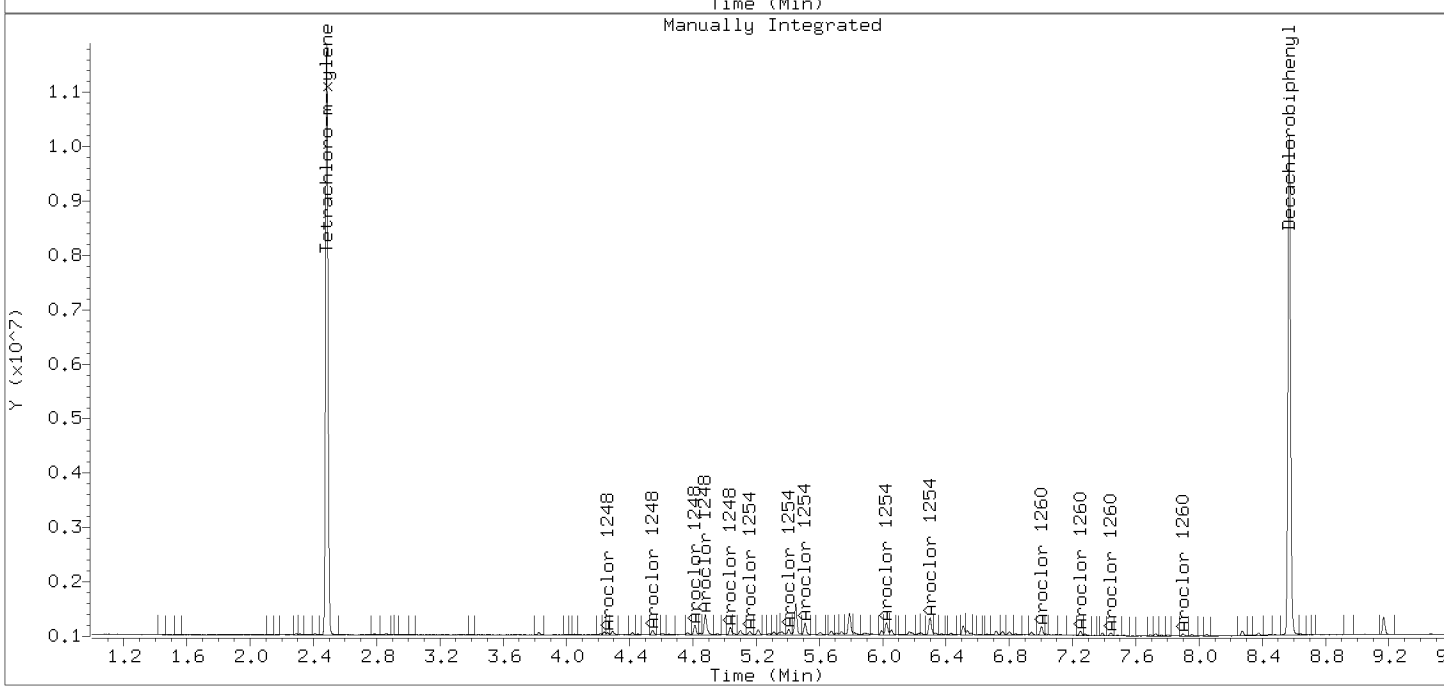
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018034.D
Date : 20-MAR-2018 21:14
Client ID: FD1-170613-01-BB-15
Sample Info: 40151705004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 21:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705004





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	36639	41956	CO
Aroclor 1248	36639	41956	CO
Aroclor 1248	36639	41956	CO
Aroclor 1248	36639	41956	CO
Aroclor 1248	36639	41956	CO
Aroclor 1254	65559	82672	BA
Aroclor 1254	65559	82672	BA
Aroclor 1254	65559	82672	BA
Aroclor 1254	65559	82672	BA
Aroclor 1254	65559	82672	BA
Aroclor 1260	374765	0	BA
Aroclor 1260	374765	0	BA
Aroclor 1260	374765	0	BA
Aroclor 1260	374765	0	BA
Aroclor 1260	374765	0	BA
Tetrachloro-m-xylene	11664503	11664503	
Decachlorobiphenyl	10658729	10658729	

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SAMPLE NO.

FD1-170613-01-BB-14

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705005

Date Analyzed: 03/20/2018 21:30

Lab File ID: 032018.B\032018035.D

Initial wt/vol: 10.0013 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)	111	
11097-69-1	PCB-1254 (Aroclor 1254)	39.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	12.0	J
1336-36-3	PCB, Total	163	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018035.D
Lab Smp Id: 40151705005 Client Smp ID: FD1-170613-01-BB-14
Inj Date : 20-MAR-2018 21:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705005,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.072	12493	11036	0.883	0.03		
1.100	9328	8146	0.873	0.02		
1.160	13572	12929	0.953	0.03		
1.426	12650	10321	0.816	0.03		
2.167	12280	12233	0.996	0.03		
2.291	31092	29580	0.951	0.08		
2.315	19084	21091	1.105	0.05		
2.408	46459	44425	0.956	0.12		
2.484	11484286	11229024	0.978	31.59	$ 2 Tetrachloro-m-xylene	
2.787	21089	17136	0.813	0.05		
2.858	29137	17071	0.586	0.07		
2.919	13243	9645	0.728	0.03		
2.975	36097	22496	0.623	0.09		
3.020	22695	20736	0.914	0.06		
3.317	12554	10460	0.833	0.03	5 Aroclor 1016	BA
3.398	9327	9556	1.025	0.02		
3.732	18119	14228	0.785	0.04		
3.827	334737	272939	0.815	0.90	5 Aroclor 1016	BA
3.919	12221	10590	0.867	0.03	5 Aroclor 1016	BA
3.995	59521	50410	0.847	0.16	5 Aroclor 1016	BA
4.055	35743	20613	0.577	0.09		
4.214	141005	130397	0.925	0.38		
4.261	283066	248949	0.879	0.76	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	322328	256910	0.797	0.87	
4.343	16886	13866	0.821	0.04	
4.416	244038	225015	0.922	0.66	
4.452	93712	81415	0.869	0.25	
4.496	21567	15640	0.725	0.05	
4.545	512749	484629	0.945	1.38	6 Aroclor 1248
4.616	44266	34548	0.780	0.11	
4.680	22900	15140	0.661	0.06	
4.728	31804	20933	0.658	0.08	
4.767	109363	99648	0.911	0.29	
4.811	683611	651675	0.953	1.84	6 Aroclor 1248
4.846	211906	211117	0.996	0.57	
4.878	1596707	1313831	0.823	4.31	6 Aroclor 1248
4.957	68391	55254	0.808	0.18	
5.036	765713	706274	0.922	2.07	6 Aroclor 1248
5.099	223872	177844	0.794	0.60	
5.160	238219	200171	0.840	0.64	7 Aroclor 1254
5.212	368122	325174	0.883	0.99	
5.282	52853	47096	0.891	0.14	
5.310	108810	94969	0.873	0.29	
5.362	187420	157060	0.838	0.50	
5.406	326011	281634	0.864	0.88	7 Aroclor 1254
5.450	1088433	1011518	0.929	2.94	
5.508	664886	575258	0.865	1.79	7 Aroclor 1254
5.604	126506	107747	0.852	0.34	
5.674	97611	85861	0.880	0.26	
5.713	63955	49837	0.779	0.17	
5.740	147144	106256	0.722	0.39	
5.790	875086	762366	0.871	2.36	
5.820	67673	81788	1.209	0.18	
5.889	107568	55271	0.514	0.29	
5.929	26884	19942	0.742	0.07	
5.993	103156	100855	0.978	0.27	
6.023	541749	479765	0.886	1.46	7 Aroclor 1254
6.055	221784	189965	0.857	0.59	
6.117	16616	13759	0.828	0.04	
6.168	115049	66891	0.581	0.31	
6.241	88932	50504	0.568	0.24	
6.298	513952	440740	0.858	1.39	7 Aroclor 1254
6.332	62273	53063	0.852	0.16	
6.372	31939	26325	0.824	0.08	
6.434	50105	32015	0.639	0.13	
6.481	12429	10452	0.841	0.03	
6.509	201660	186418	0.924	0.54	
6.535	123635	111448	0.901	0.33	
6.560	57493	47612	0.828	0.15	
6.660	21390	18237	0.853	0.05	
6.716	101554	79537	0.783	0.27	
6.758	90326	77084	0.853	0.24	
6.800	95309	80831	0.848	0.25	
6.839	39580	30753	0.777	0.10	
6.941	75656	68370	0.904	0.20	
7.003	200107	180292	0.901	0.54	8 Aroclor 1260
7.031	36841	23054	0.626	0.09	
7.097	21177	18440	0.871	0.05	
7.122	23629	14330	0.606	0.06	
7.250	115482	98378	0.852	0.31	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.284	63062	41740	0.662	0.17	
7.333	25886	15627	0.604	0.07	
7.389	63331	59161	0.934	0.17	
7.441	86324	67648	0.784	0.23	8 Aroclor 1260
7.486	41246	32889	0.797	0.11	
7.529	57171	38847	0.679	0.15	
7.582	12403	12028	0.970	0.03	
7.619	23628	13835	0.586	0.06	
7.659	14032	13812	0.984	0.03	
7.694	26576	26847	1.010	0.07	
7.728	59677	41291	0.692	0.16	
7.761	33131	27613	0.833	0.08	
7.801	41934	23525	0.561	0.11	
7.832	18923	18136	0.958	0.05	
7.866	8878	10944	1.233	0.02	
7.899	58150	45792	0.787	0.15	8 Aroclor 1260
7.952	59707	41029	0.687	0.16	
8.048	49431	40455	0.818	0.13	
8.274	99776	87780	0.880	0.26	
8.318	16829	15967	0.949	0.04	
8.374	86697	69445	0.801	0.23	
8.449	41787	36687	0.878	0.11	
8.481	19824	19351	0.976	0.05	
8.570	10154508	9066528	0.893	27.46	$ 12 Decachlorobiphenyl
8.640	28211	22038	0.781	0.07	
8.716	14658	12037	0.821	0.03	
8.935	17917	12860	0.718	0.04	
9.167	555715	485856	0.874	1.50	
9.466	15761	11112	0.705	0.04	
9.958	23922	14588	0.610	0.06	
	36967711	33484284		100.000	

Total unknown % area = 22

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018035.D
Lab Smp Id: 40151705005 Client Smp ID: FD1-170613-01-BB-14
Inj Date : 20-MAR-2018 21:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705005,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	10.001	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	11484285	0.09314	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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	283065	0.12081	60	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	512749	0.12354	62	0.00- 20.00	181.14	BA
4.811	4.812	-0.001	683610	0.33674	170	0.00- 20.00	241.50	BA
4.877	4.879	-0.002	1596706	0.31697	160	0.00- 20.00	564.08	BA
5.036	5.038	-0.002	765713	0.21338	110	0.00- 20.00	270.51	BA
Average of Peak Concentrations =					110			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	238219	0.04550	23	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	326010	0.07580	38	0.00- 20.00	136.85	BA
5.508	5.510	-0.002	664885	0.08561	43	0.00- 20.00	279.11	BA
6.022	6.027	-0.005	541748	0.11125	56	0.00- 20.00	227.42	BA
6.298	6.299	-0.001	513952	0.07898	39	0.00- 20.00	215.75	BA
Average of Peak Concentrations =					40			
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	200107	0.01998	10	0.00- 20.00	38.93	BA
7.249	7.251	-0.002	115482	0.02416	12	0.00- 20.00	22.47	BA
7.441	7.443	-0.002	86323	0.02961	15	0.00- 20.00	16.80	BA
7.898	7.901	-0.003	58150	0.02204	11	0.00- 20.00	11.31	BA
Average of Peak Concentrations =					12			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10154508	0.09268	46			

QC Flag Legend

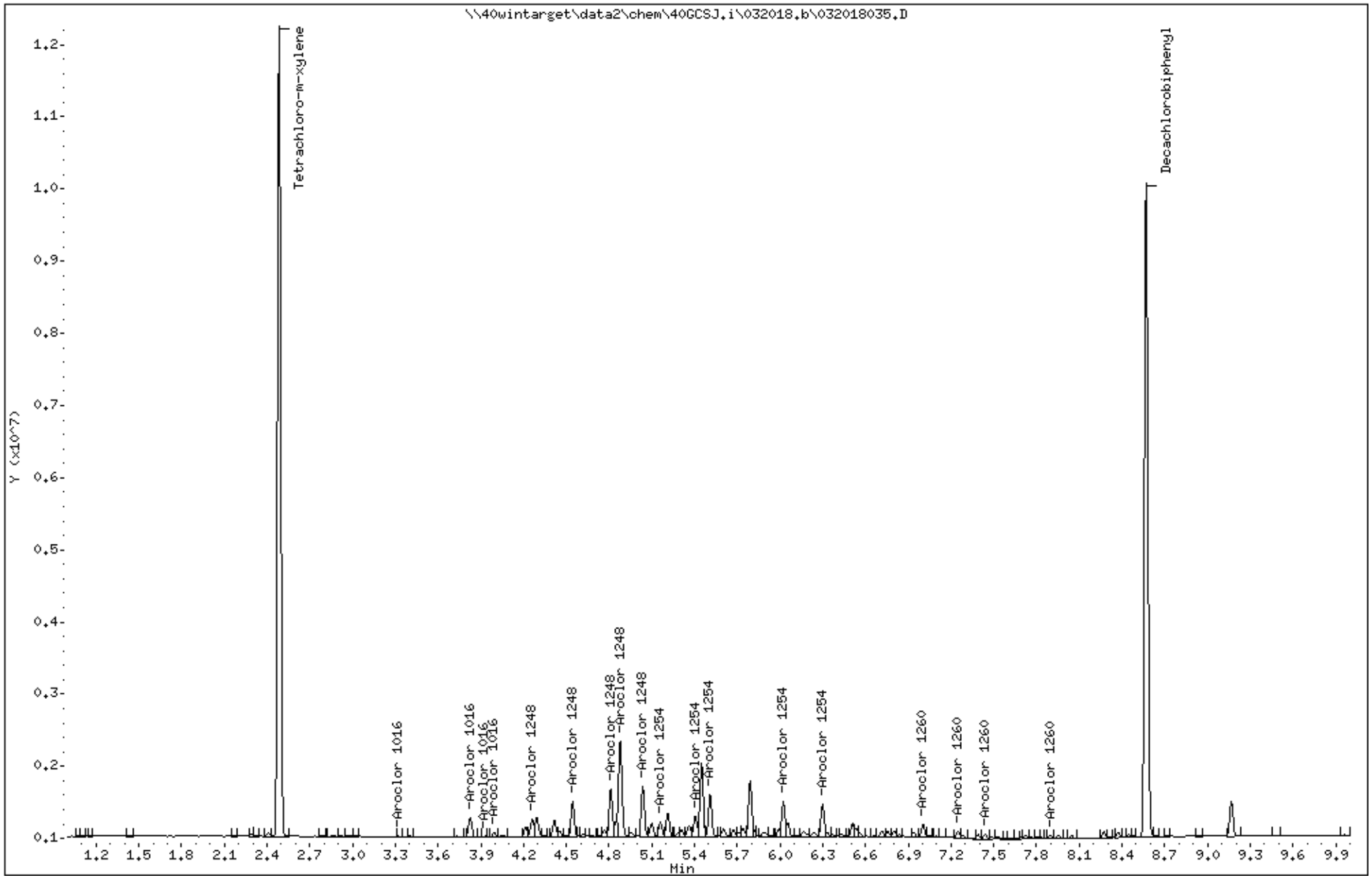
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018035.D
Date : 20-MAR-2018 21:30
Client ID: FD1-170613-01-BB-14
Sample Info: 40151705005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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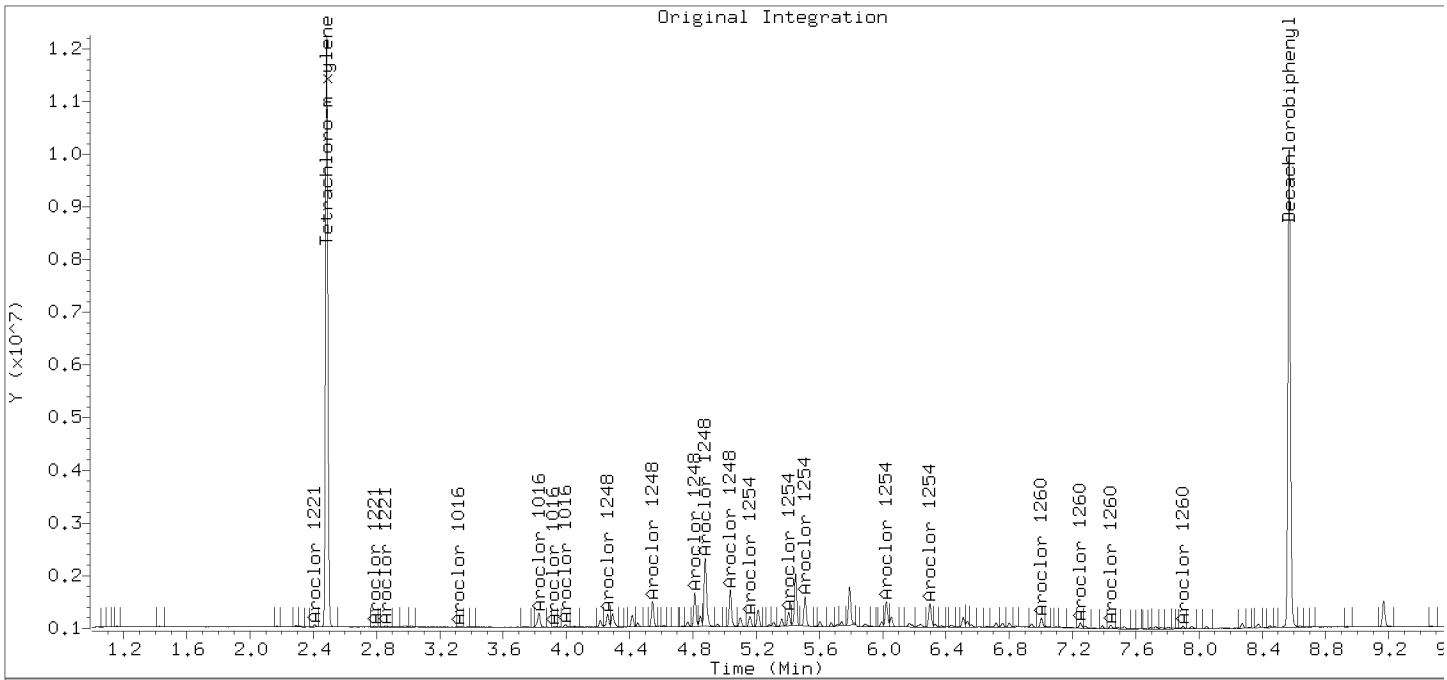
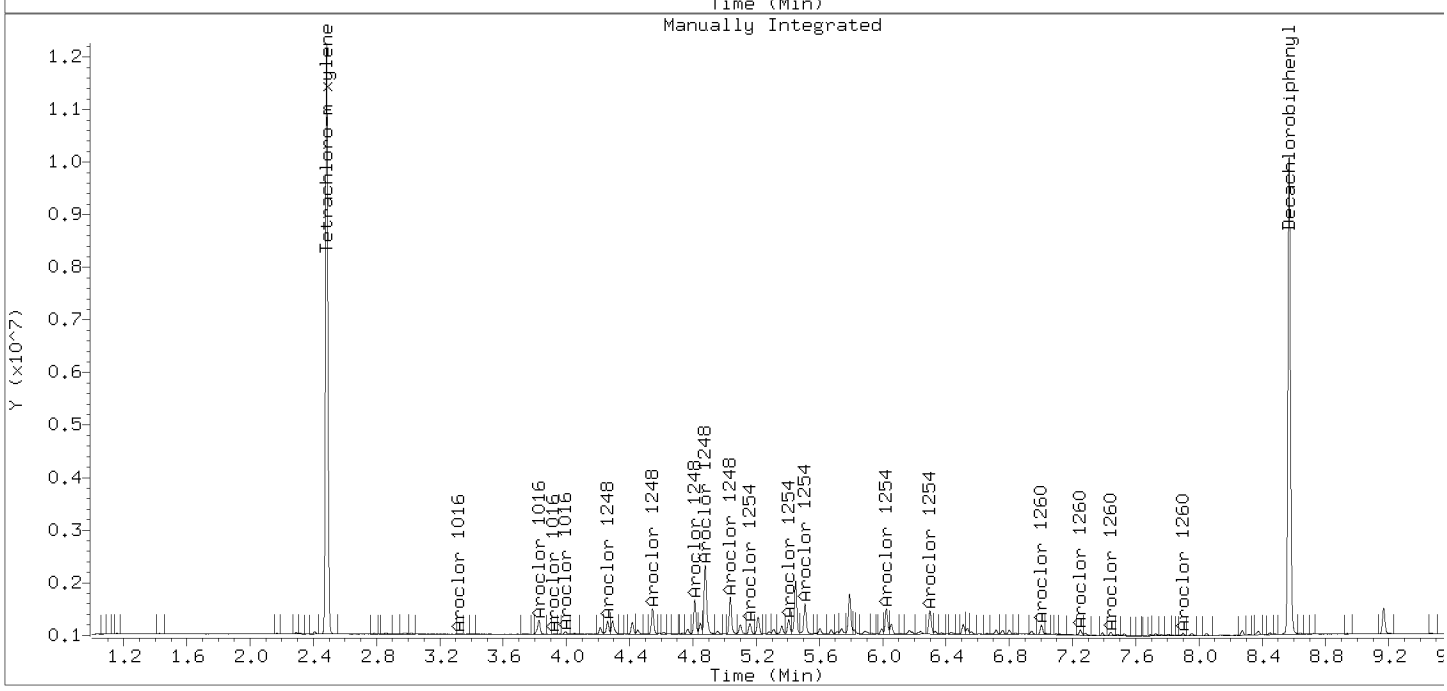
Injection Date: 20-MAR-2018 21:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	12554	0	BA
Aroclor 1016	12554	0	BA
Aroclor 1016	12554	0	BA
Aroclor 1016	12554	0	BA
Aroclor 1016	12554	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
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	275408	283065	BA
Aroclor 1248	275408	283065	BA
Aroclor 1248	275408	283065	BA
Aroclor 1248	275408	283065	BA
Aroclor 1248	275408	283065	BA
Aroclor 1254	213310	238219	BA
Aroclor 1254	213310	238219	BA
Aroclor 1254	213310	238219	BA
Aroclor 1254	213310	238219	BA
Aroclor 1254	213310	238219	BA
Aroclor 1260	518783	0	BA
Aroclor 1260	518783	0	BA
Aroclor 1260	518783	0	BA
Aroclor 1260	518783	0	BA
Aroclor 1260	518783	0	BA
Tetrachloro-m-xylene	11484285	11484285	
Decachlorobiphenyl	10154508	10154508	

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SAMPLE NO.

FD1-170613-01-BB-13

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705006
Date Analyzed: 03/20/2018 21:46
Lab File ID: 032018.B\032018036.D
Initial wt/vol: 9.9835 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)	39.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	55.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018036.D
Lab Smp Id: 40151705006 Client Smp ID: FD1-170613-01-BB-13
Inj Date : 20-MAR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705006,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36
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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.066	18364	13309	0.725	0.05		
1.100	9810	8947	0.912	0.03		
1.157	36476	21525	0.590	0.11		
1.426	16686	12539	0.751	0.05		
1.671	9893	6747	0.682	0.03		
2.132	9759	7470	0.765	0.03		
2.168	9791	13288	1.357	0.03		
2.290	26497	25487	0.962	0.08		
2.316	17195	16920	0.984	0.05		
2.407	39270	35537	0.905	0.12		
2.483	12737697	12657799	0.994	41.30	$ 2 Tetrachloro-m-xylene	
2.786	20726	21130	1.020	0.06		
2.860	36689	24361	0.664	0.11		
2.922	15324	11621	0.758	0.04		
2.974	82740	50922	0.615	0.26		
3.017	46373	43506	0.938	0.14		
3.314	10636	6969	0.655	0.03	5 Aroclor 1016	BA
3.404	24863	21605	0.869	0.07		
3.693	30395	28330	0.932	0.09		
3.728	17012	13206	0.776	0.05		
3.827	187357	136258	0.727	0.59	5 Aroclor 1016	BA
3.930	16824	11987	0.713	0.05	5 Aroclor 1016	BA
3.993	38228	36704	0.960	0.12	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.051	27365	19247	0.703	0.08	
4.214	97182	88055	0.906	0.31	
4.260	136261	118956	0.873	0.43	6 Aroclor 1248
4.292	128613	95182	0.740	0.41	
4.416	118827	108506	0.913	0.38	
4.452	56147	46744	0.833	0.17	
4.544	194555	179362	0.922	0.62	6 Aroclor 1248
4.616	27736	22783	0.821	0.08	
4.766	40894	35379	0.865	0.13	
4.813	223502	211911	0.948	0.71	6 Aroclor 1248
4.846	127911	122280	0.956	0.40	
4.877	507985	404779	0.797	1.62	6 Aroclor 1248
4.956	35262	27105	0.769	0.11	
5.036	266523	241878	0.908	0.85	6 Aroclor 1248
5.098	102606	81565	0.795	0.32	
5.161	127362	110594	0.868	0.40	7 Aroclor 1254
5.212	169111	152722	0.903	0.54	
5.283	21837	18352	0.840	0.06	
5.312	52601	49940	0.949	0.16	
5.361	88144	63079	0.716	0.28	
5.406	123934	106461	0.859	0.39	7 Aroclor 1254
5.449	452897	436468	0.964	1.44	
5.509	244069	201532	0.826	0.78	7 Aroclor 1254
5.604	52848	44324	0.839	0.16	
5.673	55924	47811	0.855	0.17	
5.711	36175	27488	0.760	0.11	
5.739	54472	41925	0.770	0.17	
5.790	337535	284694	0.843	1.08	
5.821	46973	52506	1.118	0.15	
5.888	45773	25883	0.565	0.14	
5.994	55995	53528	0.956	0.17	
6.022	191331	170972	0.894	0.61	7 Aroclor 1254
6.056	161553	136894	0.847	0.51	
6.167	77779	39413	0.507	0.24	
6.234	43261	28688	0.663	0.13	
6.300	275284	232249	0.844	0.88	7 Aroclor 1254
6.332	32089	31131	0.970	0.10	
6.365	15183	12598	0.830	0.04	
6.428	37079	21708	0.585	0.11	
6.509	140185	120139	0.857	0.44	
6.535	58401	56579	0.969	0.18	
6.560	53652	40819	0.761	0.17	
6.664	27964	17682	0.632	0.08	
6.717	79197	57574	0.727	0.25	
6.757	83003	59238	0.714	0.26	
6.801	61025	54641	0.895	0.19	
6.838	38036	22927	0.603	0.12	
6.941	111351	88600	0.796	0.35	
7.003	163687	140712	0.860	0.52	8 Aroclor 1260
7.031	13215	16879	1.277	0.04	
7.122	33934	19170	0.565	0.10	
7.251	94075	72834	0.774	0.30	8 Aroclor 1260
7.281	62547	37111	0.593	0.20	
7.337	24669	18318	0.743	0.07	
7.388	51699	46543	0.900	0.16	
7.440	70854	55263	0.780	0.22	8 Aroclor 1260
7.487	38306	25587	0.668	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.525	45643	31280	0.685	0.14	
7.577	13618	12436	0.913	0.04	
7.691	24045	24801	1.031	0.07	
7.726	53892	39759	0.738	0.17	
7.761	23001	16837	0.732	0.07	
7.812	45329	28604	0.631	0.14	
7.831	16168	14573	0.901	0.05	
7.899	48862	38598	0.790	0.15	8 Aroclor 1260
7.954	32393	19018	0.587	0.10	
8.047	74218	63517	0.856	0.23	
8.134	21669	11054	0.510	0.06	
8.272	104007	91679	0.881	0.33	
8.375	67285	47716	0.709	0.21	
8.450	18830	16025	0.851	0.06	
8.570	10772734	9638787	0.895	34.48	$ 12 Decachlorobiphenyl
8.720	18369	13331	0.726	0.05	
8.940	10481	9182	0.876	0.03	
9.167	289723	244205	0.843	0.92	
	31235254	28732877		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018036.D
Lab Smp Id: 40151705006 Client Smp ID: FD1-170613-01-BB-13
Inj Date : 20-MAR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705006,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36
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	9.983	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	12737697	0.10331	52			
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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	136260	0.05816	29	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	194555	0.04688	23	0.00- 20.00	142.78	BA
4.813	4.812	0.001	223502	0.11010	55	0.00- 20.00	164.03	BA
4.877	4.879	-0.002	507985	0.10084	50	0.00- 20.00	372.81	BA
5.036	5.038	-0.002	266523	0.07427	37	0.00- 20.00	195.60	BA
Average of Peak Concentrations =					39			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	127362	0.02433	12	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	123934	0.02881	14	0.00- 20.00	97.31	BA
5.509	5.510	-0.001	244068	0.03143	16	0.00- 20.00	191.63	BA
6.022	6.027	-0.005	191331	0.03929	20	0.00- 20.00	150.23	BA
6.299	6.299	0.000	275283	0.04230	21	0.00- 20.00	216.14	BA
Average of Peak Concentrations =					17			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10772733	0.09833	49			

QC Flag Legend

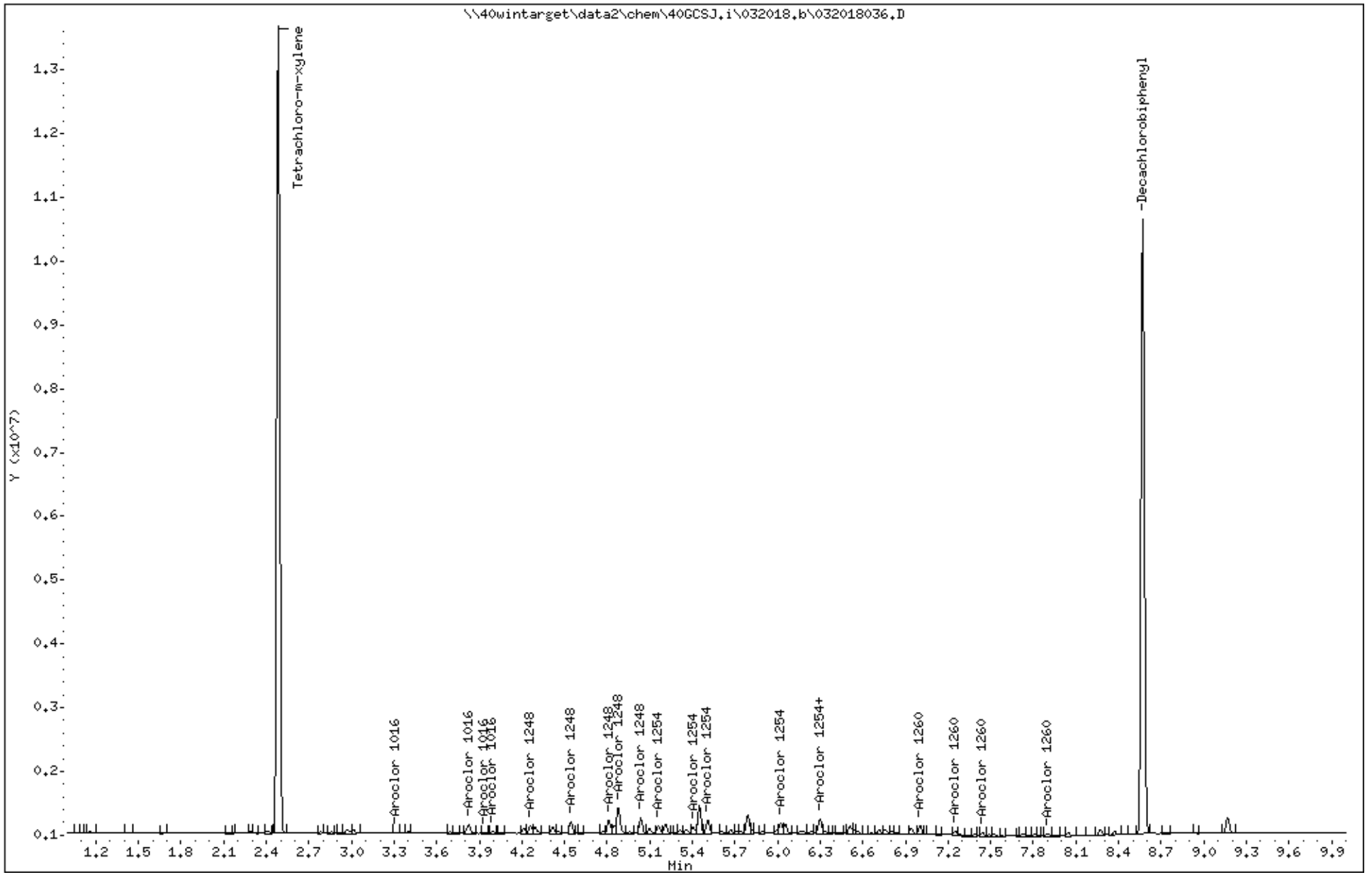
M - Compound response manually integrated.

Review Codes Legend

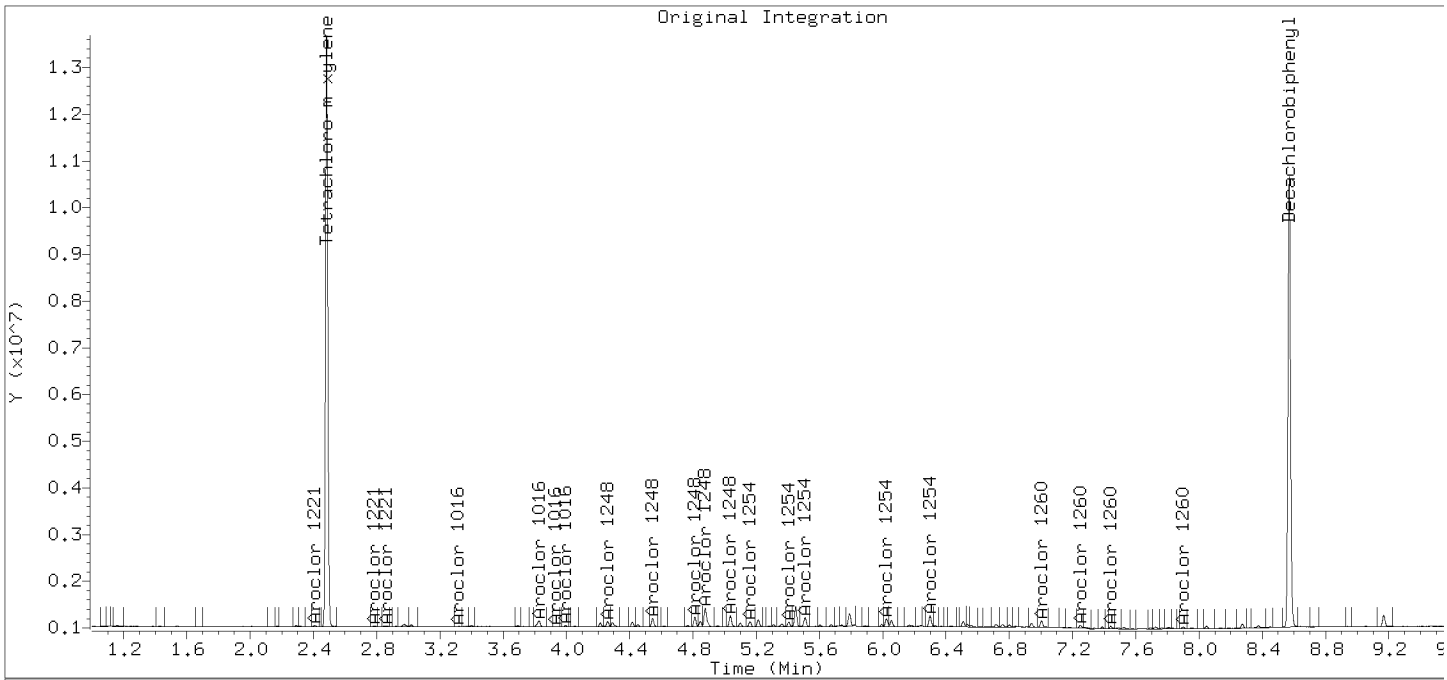
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

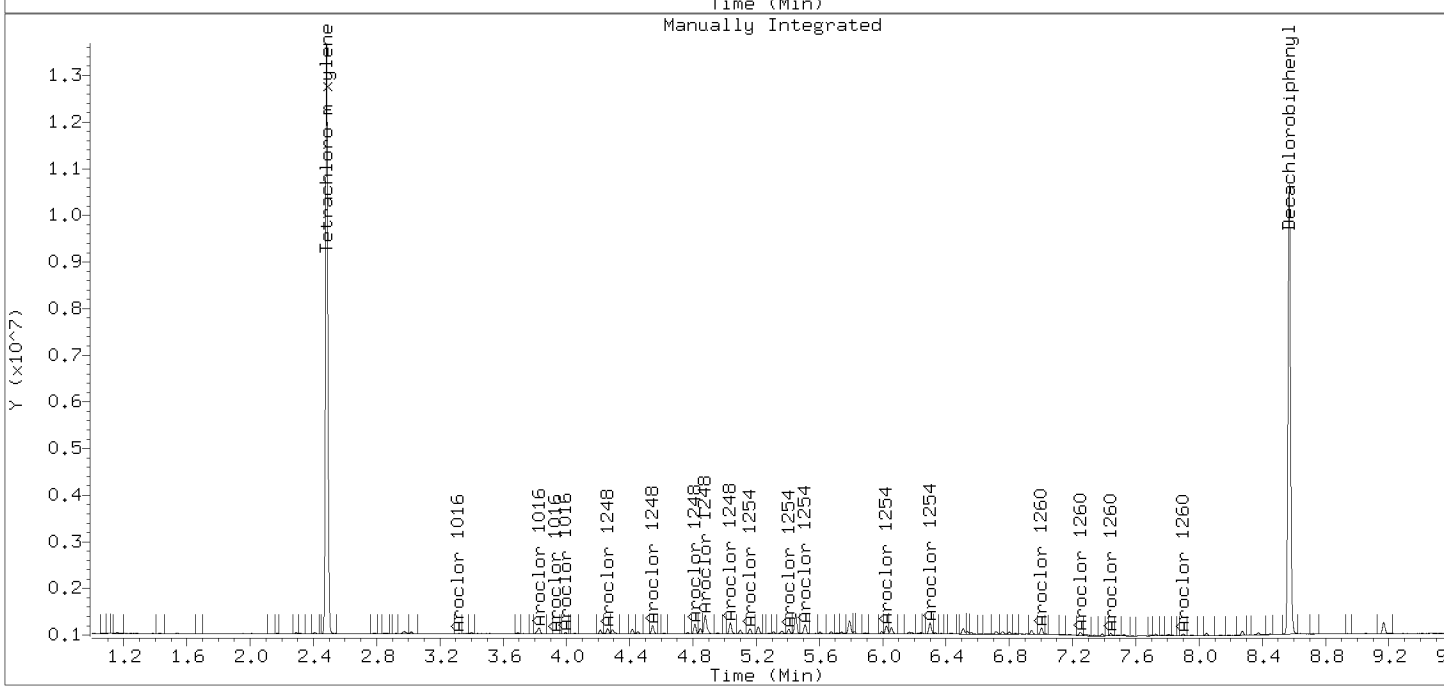
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018036.D
Date : 20-MAR-2018 21:46
Client ID: FD1-170613-01-BB-13
Sample Info: 40151705006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 21:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	10636	0	BA
Aroclor 1016	10636	0	BA
Aroclor 1016	10636	0	BA
Aroclor 1016	10636	0	BA
Aroclor 1016	10636	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
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	128609	136260	BA
Aroclor 1248	128609	136260	BA
Aroclor 1248	128609	136260	BA
Aroclor 1248	128609	136260	BA
Aroclor 1248	128609	136260	BA
Aroclor 1254	118183	127362	BA
Aroclor 1254	118183	127362	BA
Aroclor 1254	118183	127362	BA
Aroclor 1254	118183	127362	BA
Aroclor 1254	118183	127362	BA
Aroclor 1260	267381	0	CO
Aroclor 1260	267381	0	CO
Aroclor 1260	267381	0	CO
Aroclor 1260	267381	0	CO
Aroclor 1260	267381	0	CO
Tetrachloro-m-xylene	12737697	12737697	
Decachlorobiphenyl	10772733	10772733	

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SAMPLE NO.

FD1-170613-01-BB-12

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705007

Date Analyzed: 03/20/2018 22:02

Lab File ID: 032018.B\032018037.D

Initial wt/vol: 10.0108 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)	41.3	J
11097-69-1	PCB-1254 (Aroclor 1254)	19.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	15.2	J
1336-36-3	PCB, Total	76.3	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018037.D
Lab Smp Id: 40151705007 Client Smp ID: FD1-170613-01-BB-12
Inj Date : 20-MAR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705007,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37
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	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	15180	11803	0.778	0.05		
2.009	10955	9335	0.852	0.03		
2.130	19140	12933	0.676	0.06		
2.169	13507	15946	1.181	0.04		
2.293	30560	28925	0.946	0.10		
2.317	27077	28295	1.045	0.09		
2.408	28703	23798	0.829	0.10		
2.484	10319925	10032540	0.972	37.16	$ 2 Tetrachloro-m-xylene	
2.600	11402	5692	0.499	0.04		
2.786	16799	17022	1.013	0.05		
2.861	30818	21265	0.690	0.10		
2.919	16576	9866	0.595	0.05		
2.972	34845	21906	0.629	0.12		
3.019	23164	16181	0.699	0.08		
3.402	23741	20033	0.844	0.08		
3.692	21832	22000	1.008	0.07		
3.827	124238	98289	0.791	0.44		
3.994	29033	22865	0.788	0.10		
4.049	22819	16459	0.721	0.08		
4.213	75663	65531	0.866	0.26		
4.237	64821	62300	0.961	0.23		
4.261	103985	98430	0.947	0.36	6 Aroclor 1248	CO
4.293	137471	96630	0.703	0.48		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.346	20693	14482	0.700	0.07	
4.418	99180	84055	0.847	0.35	
4.452	50628	32428	0.641	0.17	
4.545	189932	162582	0.856	0.67	6 Aroclor 1248
4.607	67473	28519	0.423	0.23	
4.651	27538	19433	0.706	0.09	
4.767	85937	57051	0.664	0.30	
4.812	266386	234339	0.880	0.94	6 Aroclor 1248
4.846	95083	91031	0.957	0.33	
4.878	587778	485199	0.825	2.08	6 Aroclor 1248
4.956	40091	28078	0.700	0.14	
5.036	269503	250278	0.929	0.95	6 Aroclor 1248
5.056	24492	27021	1.103	0.08	
5.098	126584	88664	0.700	0.44	
5.162	146427	112774	0.770	0.51	7 Aroclor 1254
5.213	210831	162150	0.769	0.74	
5.284	37301	26827	0.719	0.13	
5.312	88488	74024	0.837	0.31	
5.345	26043	44478	1.708	0.09	
5.362	106594	72777	0.683	0.37	
5.406	155387	126482	0.814	0.55	7 Aroclor 1254
5.450	486753	447449	0.919	1.72	
5.509	311721	257614	0.826	1.10	7 Aroclor 1254
5.605	68660	50420	0.734	0.24	
5.675	90927	75675	0.832	0.32	
5.710	53943	40143	0.744	0.19	
5.740	67719	52009	0.768	0.24	
5.790	444474	363658	0.818	1.57	
5.820	79256	46435	0.586	0.28	
5.888	93598	33997	0.363	0.33	
5.993	77271	67688	0.876	0.27	
6.022	268452	225859	0.841	0.95	7 Aroclor 1254
6.055	181318	149913	0.827	0.64	
6.118	16992	14538	0.856	0.06	
6.167	133012	74986	0.564	0.47	
6.225	19123	25890	1.354	0.06	
6.244	50147	33225	0.663	0.17	
6.299	375850	312484	0.831	1.33	8 Aroclor 1260
6.333	49809	40185	0.807	0.17	
6.370	25397	18285	0.720	0.09	
6.432	44176	32292	0.731	0.15	
6.509	202832	176196	0.869	0.72	
6.535	80740	72346	0.896	0.28	
6.560	59227	47899	0.809	0.21	
6.661	30047	26009	0.866	0.10	
6.718	117748	100860	0.857	0.41	
6.759	89738	75411	0.840	0.31	
6.802	73284	58656	0.800	0.26	
6.840	41939	24638	0.587	0.14	
6.943	85927	71402	0.831	0.30	
7.003	225793	212688	0.942	0.80	8 Aroclor 1260
7.033	21119	22731	1.076	0.07	
7.080	19793	11363	0.574	0.07	
7.125	37595	19055	0.507	0.13	
7.249	113046	94296	0.834	0.40	8 Aroclor 1260
7.281	66422	40266	0.606	0.23	
7.339	28925	18408	0.636	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	66539	60272	0.906	0.23	
7.443	107153	74093	0.691	0.38	8 Aroclor 1260
7.579	12528	11682	0.932	0.04	
7.661	13894	15461	1.113	0.04	
7.693	29267	26782	0.915	0.10	
7.727	48558	37009	0.762	0.17	
7.758	18173	13587	0.748	0.06	
7.810	60140	26993	0.449	0.21	
7.859	7959	11044	1.388	0.02	
7.900	69571	46444	0.668	0.24	8 Aroclor 1260
7.944	6619	10922	1.650	0.02	
7.955	27211	14881	0.547	0.09	
8.047	60027	49882	0.831	0.21	
8.273	95595	75271	0.787	0.33	
8.373	34624	25428	0.734	0.12	
8.570	9162190	8026029	0.876	32.53	$ 12 Decachlorobiphenyl
8.940	19034	12249	0.644	0.06	
9.059	11032	8301	0.752	0.03	
9.166	125114	110838	0.886	0.44	
9.467	18135	12613	0.696	0.06	
9.952	10301	9954	0.966	0.03	
	28161063	25095420		100.000	

Total unknown % area = 19

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018037.D
Lab Smp Id: 40151705007 Client Smp ID: FD1-170613-01-BB-12
Inj Date : 20-MAR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705007,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37
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	10.011	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	10319925	0.08370	42			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	103985	0.04438	22	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	189932	0.04576	23	0.00- 20.00	182.65	CO
4.812	4.812	0.000	266386	0.13122	66	0.00- 20.00	256.18	CO
4.877	4.879	-0.002	587778	0.11668	58	0.00- 20.00	565.25	CO
5.036	5.038	-0.002	269503	0.07510	38	0.00- 20.00	259.17	CO
Average of Peak Concentrations =					41			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	146427	0.02797	14	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	155387	0.03613	18	0.00- 20.00	106.12	BA
5.509	5.510	-0.001	311720	0.04014	20	0.00- 20.00	212.88	BA
6.022	6.027	-0.005	268452	0.05513	28	0.00- 20.00	183.34	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					20			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	375849	0.04241	21	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	225792	0.02255	11	0.00- 20.00	60.08	CO
7.249	7.251	-0.002	113046	0.02365	12	0.00- 20.00	30.08	CO
7.442	7.443	-0.001	107153	0.03676	18	0.00- 20.00	28.51	CO
7.900	7.901	-0.001	69570	0.02636	13	0.00- 20.00	18.51	CO
Average of Peak Concentrations =					15			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9162189	0.08363	42			

QC Flag Legend

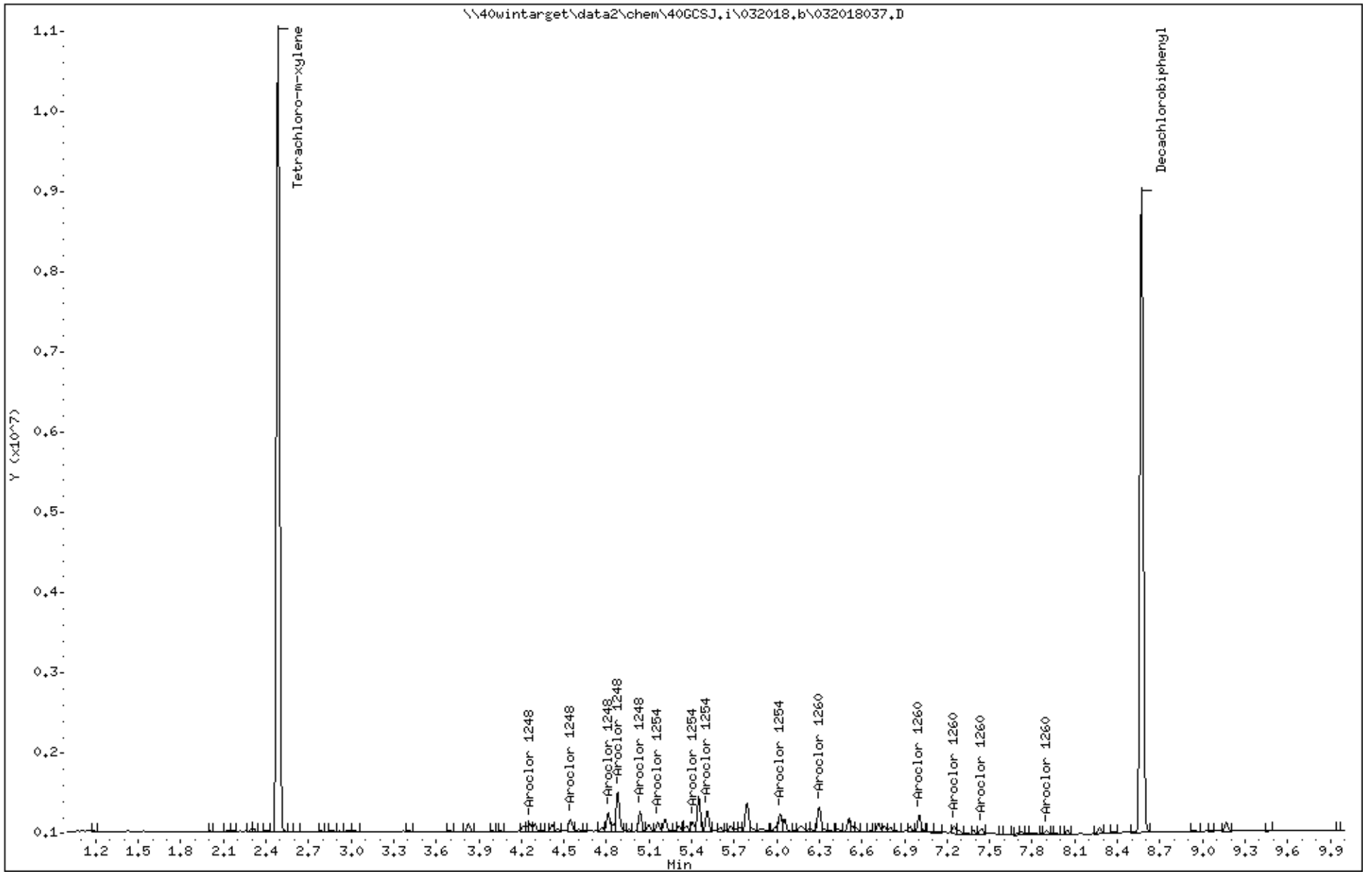
M - Compound response manually integrated.

Review Codes Legend

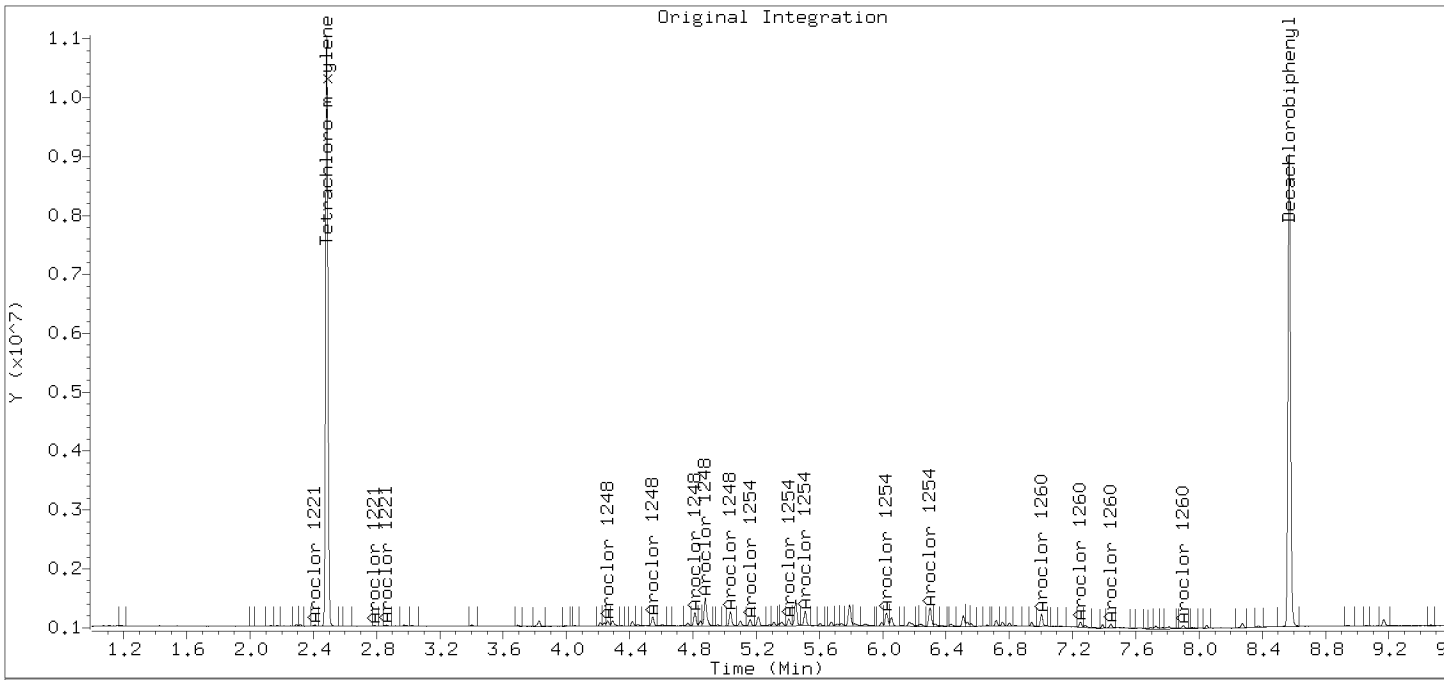
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

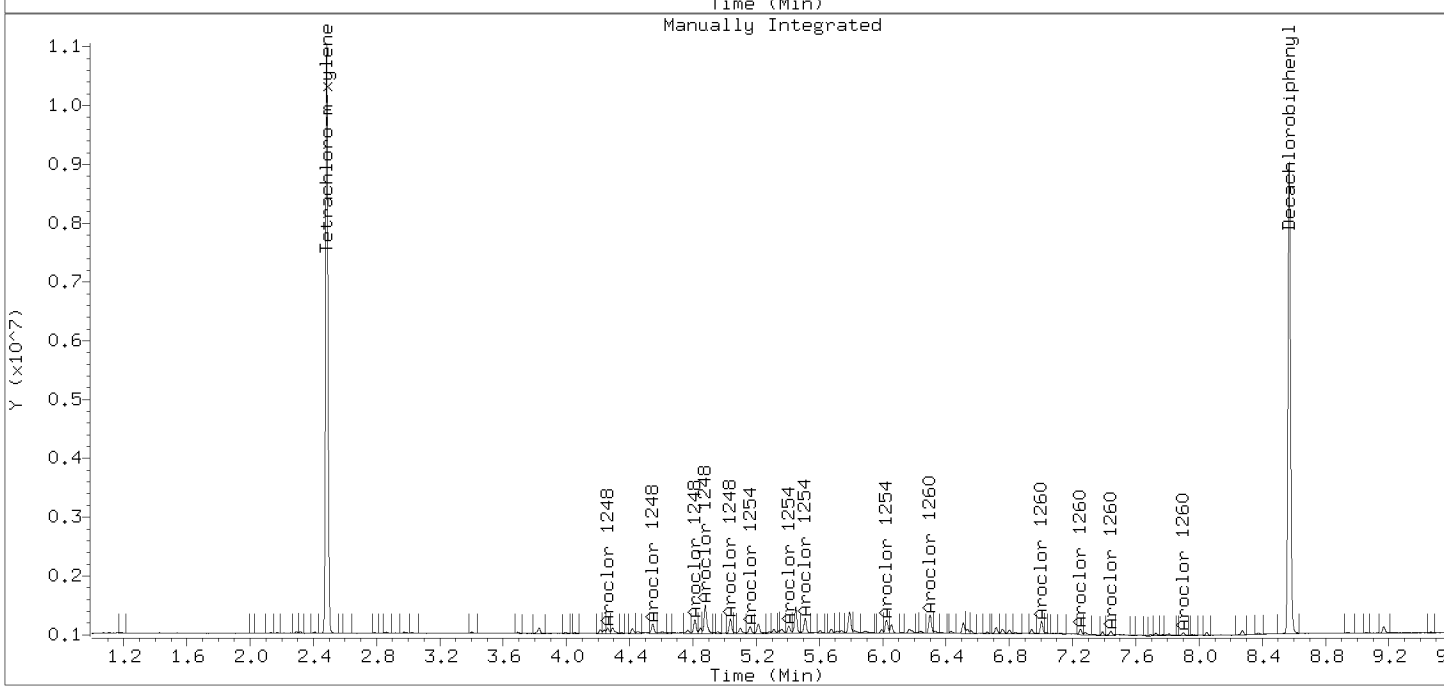
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018037.D
Date : 20-MAR-2018 22:02
Client ID: FD1-170613-01-BB-12
Sample Info: 40151705007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018037.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 22:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705007





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	93615	103985	CO
Aroclor 1248	93615	103985	CO
Aroclor 1248	93615	103985	CO
Aroclor 1248	93615	103985	CO
Aroclor 1248	93615	103985	CO
Aroclor 1254	119583	146427	BA
Aroclor 1254	119583	146427	BA
Aroclor 1254	119583	146427	BA
Aroclor 1254	119583	146427	BA
Aroclor 1254	119583	146427	BA
Aroclor 1260	384852	375849	CO
Aroclor 1260	384852	375849	CO
Aroclor 1260	384852	375849	CO
Aroclor 1260	384852	375849	CO
Aroclor 1260	384852	375849	CO
Tetrachloro-m-xylene	10319925	10319925	
Decachlorobiphenyl	9162189	9162189	

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SAMPLE NO.

FD1-170613-01-BB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705008
Date Analyzed: 03/20/2018 22:17
Lab File ID: 032018.B\032018038.D
Initial wt/vol: 9.9731 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018038.D
Lab Smp Id: 40151705008 Client Smp ID: FD1-170613-01-BB-11
Inj Date : 20-MAR-2018 22:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705008,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
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	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.022	10115	6719	0.664	0.04		
1.159	11432	11857	1.037	0.04		
1.915	9900	7689	0.777	0.04		
2.316	10214	10068	0.986	0.04		
2.410	61024	59739	0.979	0.25		
2.484	10148173	9871385	0.973	42.40	$ 2 Tetrachloro-m-xylene	
2.790	23574	15577	0.661	0.09		
2.859	30454	18873	0.620	0.12		
2.916	10006	8644	0.864	0.04		
2.974	45403	23267	0.512	0.18		
3.019	25991	25507	0.981	0.10		
3.318	23391	15296	0.654	0.09	5 Aroclor 1016	BA
3.401	9957	9639	0.968	0.04		
3.826	88870	59583	0.670	0.36	5 Aroclor 1016	BA
3.994	19890	17376	0.874	0.08	5 Aroclor 1016	BA
4.055	28475	14679	0.516	0.11		
4.216	45154	37211	0.824	0.18		
4.239	38459	39807	1.035	0.15		
4.262	40868	38273	0.937	0.16	6 Aroclor 1248	CO
4.291	43075	29436	0.683	0.17		
4.417	42724	38077	0.891	0.17		
4.453	25384	18575	0.732	0.10		
4.543	63944	44829	0.701	0.26	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.651	20219	13078	0.647	0.08	
4.768	19654	16993	0.865	0.08	
4.813	51717	42793	0.827	0.21	6 Aroclor 1248
4.847	35784	32542	0.909	0.14	
4.878	120856	76182	0.630	0.49	6 Aroclor 1248
4.959	20040	12111	0.604	0.08	
5.037	44271	42862	0.968	0.18	6 Aroclor 1248
5.062	12975	13838	1.066	0.05	
5.100	56435	36030	0.638	0.23	
5.160	63517	48370	0.762	0.26	7 Aroclor 1254
5.215	76256	61836	0.811	0.31	
5.312	47969	42418	0.884	0.19	
5.344	54092	31049	0.574	0.22	
5.405	53788	43484	0.808	0.22	7 Aroclor 1254
5.451	405577	402817	0.993	1.67	
5.509	110325	92632	0.840	0.45	7 Aroclor 1254
5.602	26410	18050	0.683	0.10	
5.674	48106	41895	0.871	0.19	
5.708	30129	21628	0.718	0.12	
5.739	38896	27605	0.710	0.16	
5.791	223400	183668	0.822	0.92	
5.820	53438	39856	0.746	0.22	
5.888	18987	18807	0.991	0.07	
5.896	23961	21647	0.903	0.09	
5.994	59827	52819	0.883	0.24	
6.025	115726	101132	0.874	0.47	7 Aroclor 1254
6.056	92486	79429	0.859	0.38	
6.170	74768	41268	0.552	0.30	
6.229	45740	26714	0.584	0.18	
6.298	260667	222483	0.854	1.07	8 Aroclor 1260
6.331	27814	30313	1.090	0.11	
6.431	42190	22211	0.526	0.17	
6.509	130372	119476	0.916	0.53	
6.534	88865	57340	0.645	0.36	
6.659	16459	13389	0.813	0.06	
6.718	64148	51261	0.799	0.26	
6.756	61515	50219	0.816	0.25	
6.802	58848	47378	0.805	0.24	
6.842	36956	20213	0.547	0.15	
6.942	70931	59389	0.837	0.29	
7.004	142591	131463	0.922	0.58	8 Aroclor 1260
7.038	16039	16111	1.004	0.06	
7.073	10669	6725	0.630	0.04	
7.250	78219	68593	0.877	0.32	8 Aroclor 1260
7.279	48500	30009	0.619	0.20	
7.387	46087	42898	0.931	0.19	
7.442	66296	55628	0.839	0.27	8 Aroclor 1260
7.482	30246	15740	0.520	0.12	
7.525	23929	14805	0.619	0.09	
7.583	13589	11262	0.829	0.05	
7.660	9401	10830	1.152	0.03	
7.694	25616	21667	0.846	0.10	
7.726	47819	35446	0.741	0.19	
7.762	23511	16367	0.696	0.09	
7.807	43854	26677	0.608	0.18	
7.901	48245	36281	0.752	0.19	8 Aroclor 1260
7.954	38658	22480	0.582	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.048	60901	52148	0.856	0.25	
8.275	92588	80640	0.871	0.38	
8.375	40857	30444	0.745	0.16	
8.449	20321	18243	0.898	0.08	
8.570	9186873	7781181	0.847	37.96	$ 12 Decachlorobiphenyl
8.824	10140	6492	0.640	0.04	
9.056	14918	9014	0.604	0.06	
9.168	283989	235862	0.831	1.17	
9.957	12144	9080	0.748	0.05	
	24196594	21585417		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018038.D
Lab Smp Id: 40151705008 Client Smp ID: FD1-170613-01-BB-11
Inj Date : 20-MAR-2018 22:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705008,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
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	9.973	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	10148172	0.08231	41			

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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).

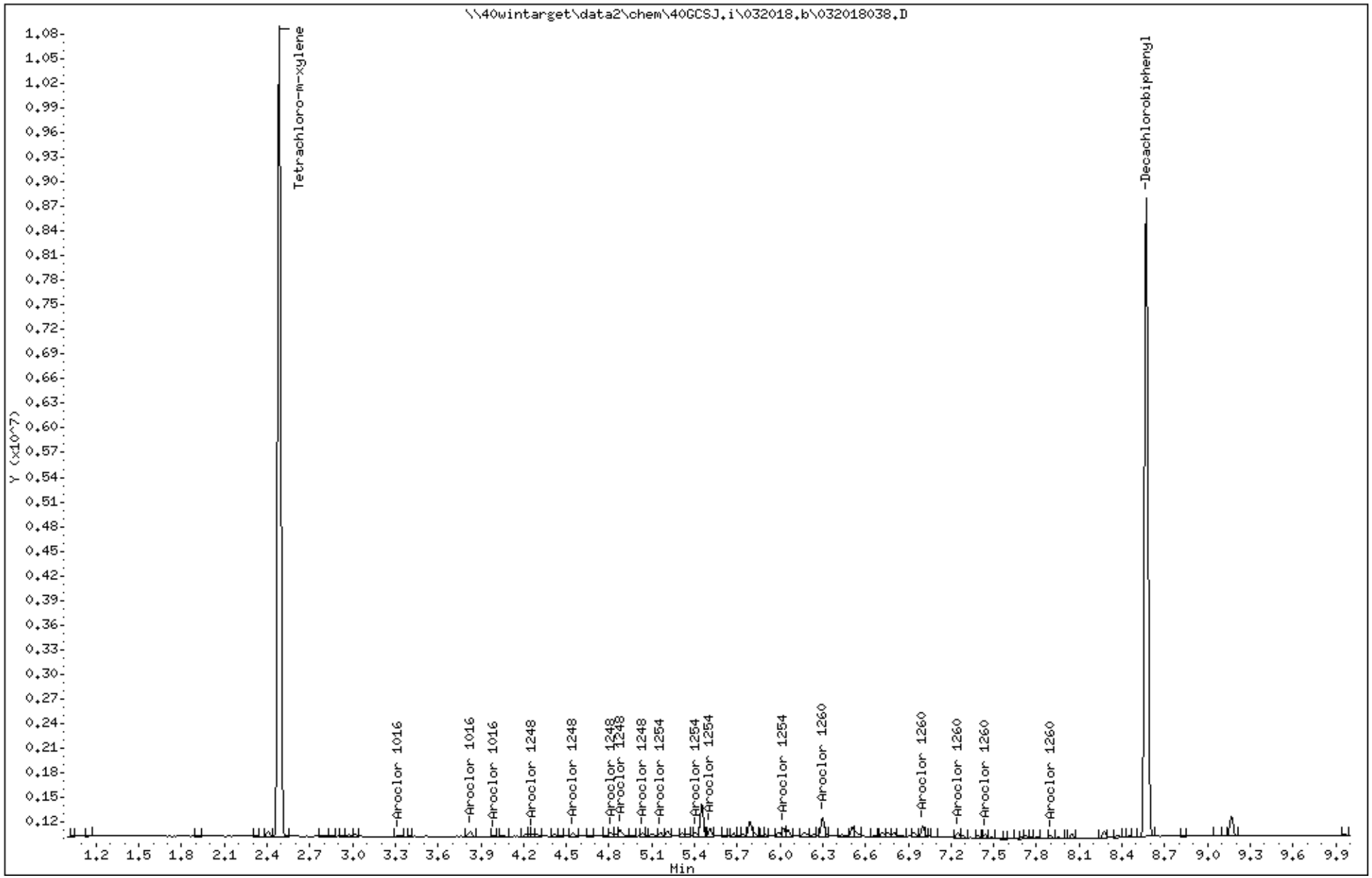
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								CO
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9186872	0.08385	42			

Review Codes Legend

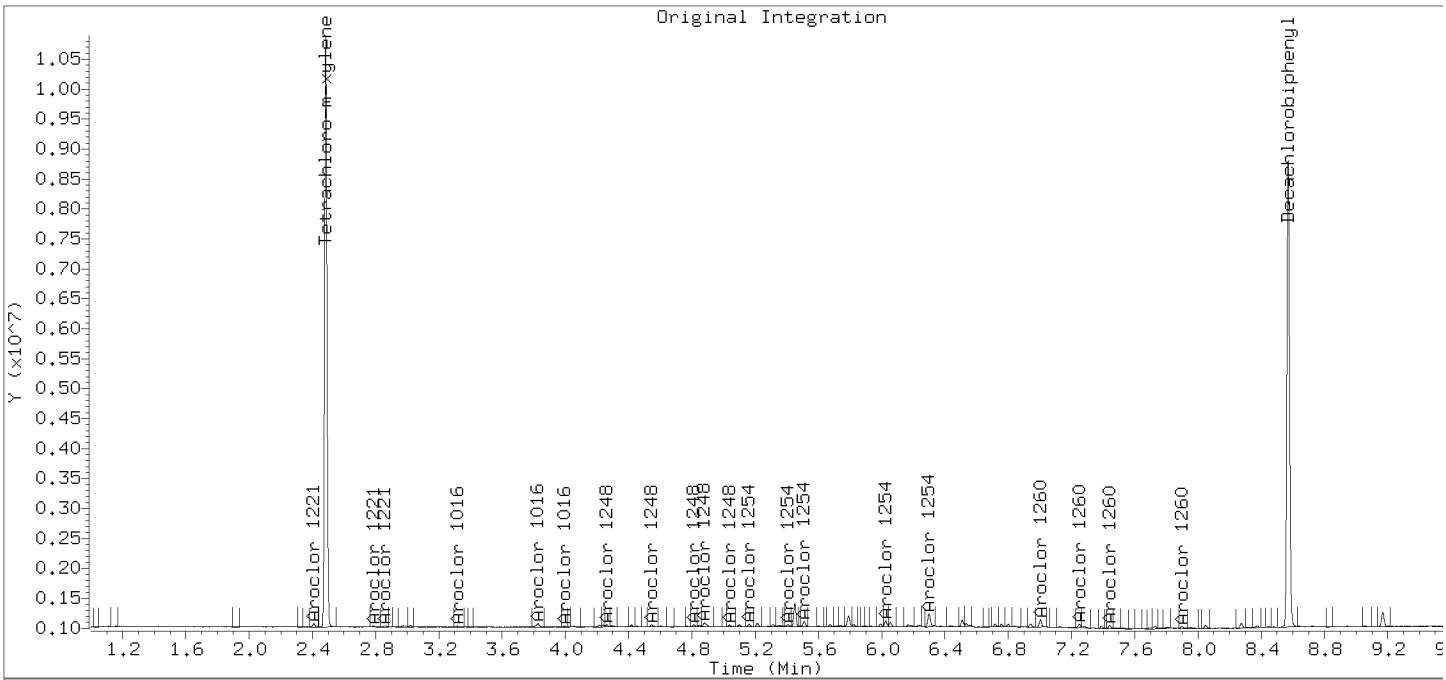
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

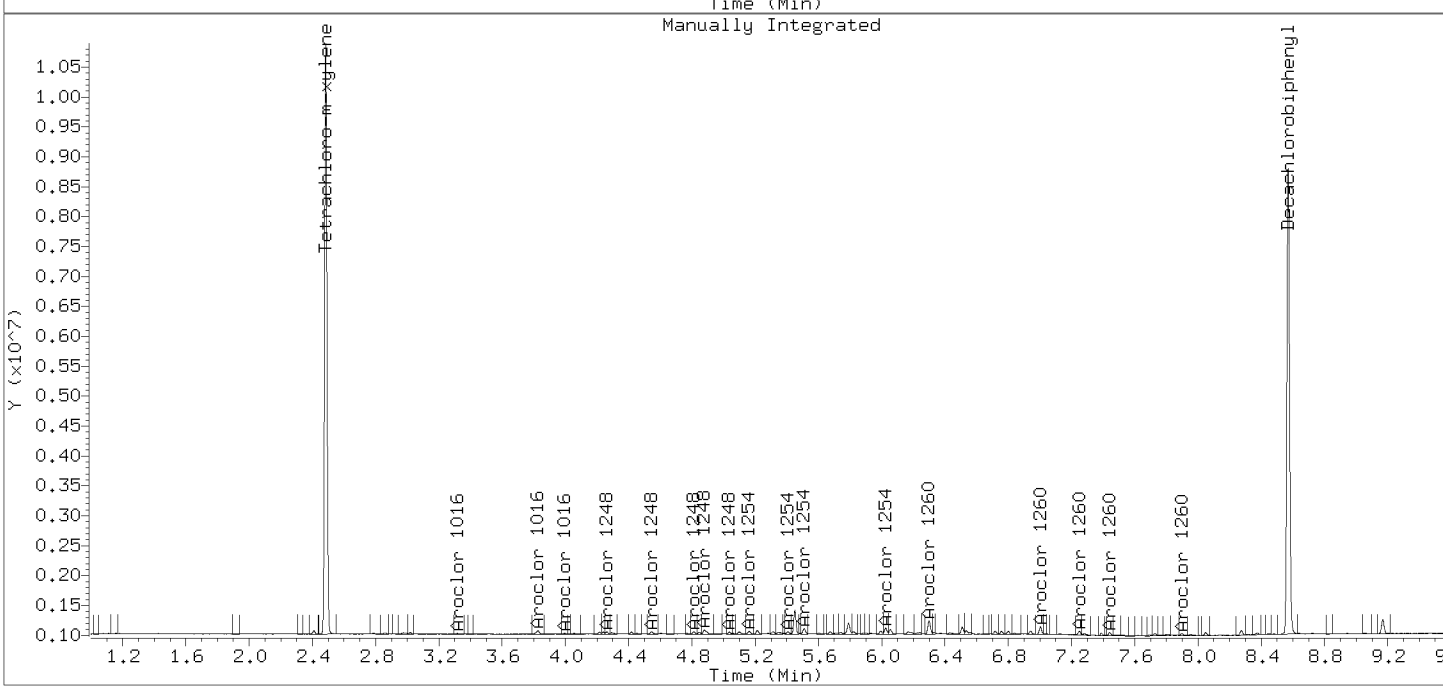
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018038.D
Date : 20-MAR-2018 22:17
Client ID: FD1-170613-01-BB-11
Sample Info: 40151705008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018038.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 22:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	23390	0	BA
Aroclor 1016	23390	0	BA
Aroclor 1016	23390	0	BA
Aroclor 1016	23390	0	BA
Aroclor 1016	23390	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
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	35175	0	CO
Aroclor 1248	35175	0	CO
Aroclor 1248	35175	0	CO
Aroclor 1248	35175	0	CO
Aroclor 1248	35175	0	CO
Aroclor 1254	53888	0	CO
Aroclor 1254	53888	0	CO
Aroclor 1254	53888	0	CO
Aroclor 1254	53888	0	CO
Aroclor 1254	53888	0	CO
Aroclor 1260	253298	0	CO
Aroclor 1260	253298	0	CO
Aroclor 1260	253298	0	CO
Aroclor 1260	253298	0	CO
Aroclor 1260	253298	0	CO
Tetrachloro-m-xylene	10148172	10148172	
Decachlorobiphenyl	9186872	9186872	

==========

SAMPLE NO.

FD1-170613-01-BB-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: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705009

Date Analyzed: 03/20/2018 22:33

Lab File ID: 032018.B\032018039.D

Initial wt/vol: 10.0354 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)	35.2	J
11097-69-1	PCB-1254 (Aroclor 1254)	17.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	15.6	J
1336-36-3	PCB, Total	68.4	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018039.D
Lab Smp Id: 40151705009 Client Smp ID: FD1-170613-01-BB-10
Inj Date : 20-MAR-2018 22:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705009,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39
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	10.035	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.042	10193	9036	0.886	0.03		
1.156	12797	11625	0.908	0.04		
1.186	17527	12020	0.686	0.05		
1.427	16016	10441	0.652	0.05		
1.536	14567	9946	0.683	0.04		
1.951	10371	7110	0.686	0.03		
2.010	9725	7359	0.757	0.03		
2.168	13083	12948	0.990	0.04		
2.197	13016	10109	0.777	0.04		
2.292	33327	29334	0.880	0.10		
2.316	19174	17750	0.926	0.06		
2.408	26352	26400	1.002	0.08		
2.484	11563031	11196410	0.968	37.61	$ 2 Tetrachloro-m-xylene	
2.784	20574	18261	0.888	0.06		
2.857	44018	28514	0.648	0.14		
2.917	23721	14752	0.622	0.07		
2.974	39120	27701	0.708	0.12		
3.018	24317	19802	0.814	0.07		
3.401	18198	12593	0.692	0.05		
3.828	114205	91188	0.798	0.36		
3.993	23960	19155	0.799	0.07		
4.051	31337	20948	0.668	0.10		
4.214	45133	41721	0.924	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	79113	68975	0.872	0.25	6 Aroclor 1248
4.292	113883	84293	0.740	0.36	
4.416	75014	63204	0.843	0.24	
4.453	29738	22894	0.770	0.09	
4.546	147513	127221	0.862	0.47	6 Aroclor 1248
4.767	54949	42609	0.775	0.17	
4.812	227222	212649	0.936	0.72	6 Aroclor 1248
4.846	70835	64314	0.908	0.22	
4.878	511874	417584	0.816	1.64	6 Aroclor 1248
4.956	38588	21819	0.565	0.12	
5.036	252230	218720	0.867	0.80	6 Aroclor 1248
5.099	114857	92557	0.806	0.36	
5.162	111246	90651	0.815	0.35	7 Aroclor 1254
5.214	165968	138884	0.837	0.53	
5.281	32860	27654	0.842	0.10	
5.312	82005	69342	0.846	0.26	
5.363	82982	58888	0.710	0.26	
5.406	130160	115843	0.890	0.41	7 Aroclor 1254
5.450	790153	728636	0.922	2.53	
5.508	290948	252724	0.869	0.93	7 Aroclor 1254
5.602	46828	38235	0.817	0.15	
5.674	97743	86675	0.887	0.31	
5.710	50410	41024	0.814	0.16	
5.741	78986	59030	0.747	0.25	
5.790	482979	413252	0.856	1.54	
5.821	87106	66782	0.767	0.27	
5.888	68877	34318	0.498	0.22	
5.927	21375	17253	0.807	0.06	
5.993	99969	94443	0.945	0.32	
6.024	258258	226085	0.875	0.82	7 Aroclor 1254
6.055	170641	148060	0.868	0.54	
6.122	14435	12096	0.838	0.04	
6.168	111503	62774	0.563	0.35	
6.241	77314	45291	0.586	0.24	
6.299	447485	385061	0.860	1.43	8 Aroclor 1260
6.333	43189	43033	0.996	0.13	
6.371	22475	17734	0.789	0.07	
6.432	54297	35814	0.660	0.17	
6.508	228605	206316	0.902	0.73	
6.533	97144	87317	0.899	0.31	
6.559	57123	48737	0.853	0.18	
6.605	13607	10950	0.805	0.04	
6.659	28413	24484	0.862	0.09	
6.717	114098	97151	0.851	0.36	
6.758	98375	84569	0.860	0.31	
6.802	87294	71722	0.822	0.28	
6.841	45908	27238	0.593	0.14	
6.940	96717	83462	0.863	0.31	
7.004	223823	204085	0.912	0.71	8 Aroclor 1260
7.031	34900	24201	0.693	0.11	
7.098	17522	13903	0.793	0.05	
7.123	13882	13245	0.954	0.04	
7.249	123811	109012	0.880	0.39	8 Aroclor 1260
7.281	63084	41945	0.665	0.20	
7.336	18382	15601	0.849	0.05	
7.388	70279	66709	0.949	0.22	
7.442	93458	75415	0.807	0.29	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.484	41118	28836	0.701	0.13	
7.526	49763	36200	0.727	0.15	
7.624	9617	8133	0.846	0.03	
7.657	8384	8890	1.060	0.02	
7.692	34903	31112	0.891	0.11	
7.726	55454	39259	0.708	0.17	
7.763	34080	27069	0.794	0.10	
7.805	43400	26314	0.606	0.13	
7.837	21941	19171	0.874	0.07	
7.864	12052	10517	0.873	0.03	
7.900	67120	52182	0.777	0.21	8 Aroclor 1260
7.955	60224	40761	0.677	0.19	
8.048	56363	49427	0.877	0.18	
8.272	100188	92730	0.926	0.32	
8.316	13750	13097	0.953	0.04	
8.376	96414	68475	0.710	0.30	
8.448	34020	30200	0.888	0.10	
8.481	17491	17339	0.991	0.05	
8.570	10422642	8881684	0.852	33.43	$ 12 Decachlorobiphenyl
8.641	27589	23070	0.836	0.08	
8.714	17893	14502	0.810	0.05	
8.938	14922	11204	0.751	0.04	
9.168	598417	534752	0.894	1.91	
9.465	15639	11994	0.767	0.05	
9.957	13181	9216	0.699	0.04	
	31172759	27793740		100.000	

Total unknown % area = 20

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018039.D
Lab Smp Id: 40151705009 Client Smp ID: FD1-170613-01-BB-10
Inj Date : 20-MAR-2018 22:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705009,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39
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	10.035	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	11563031	0.09378	47			

---

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			
4.259	4.261	-0.002	79113	0.03377	17	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	147513	0.03554	18	0.00- 20.00	186.46	BA
4.811	4.812	-0.001	227222	0.11193	56	0.00- 20.00	287.21	BA
4.877	4.879	-0.002	511873	0.10161	51	0.00- 20.00	647.02	BA
5.036	5.038	-0.002	252229	0.07029	35	0.00- 20.00	318.82	BA
		Average of Peak Concentrations =			35			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	111245	0.02125	10	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	130160	0.03026	15	0.00- 20.00	117.00	BA
5.508	5.510	-0.002	290947	0.03746	19	0.00- 20.00	261.54	BA
6.023	6.027	-0.004	258258	0.05303	26	0.00- 20.00	232.15	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			18			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	447485	0.05049	25	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	223823	0.02235	11	0.00- 20.00	50.02	BA
7.249	7.251	-0.002	123810	0.02590	13	0.00- 20.00	27.67	BA
7.441	7.443	-0.002	93458	0.03206	16	0.00- 20.00	20.89	BA
7.900	7.901	-0.001	67119	0.02544	13	0.00- 20.00	15.00	BA
		Average of Peak Concentrations =			16			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10422642	0.09513	47			

QC Flag Legend

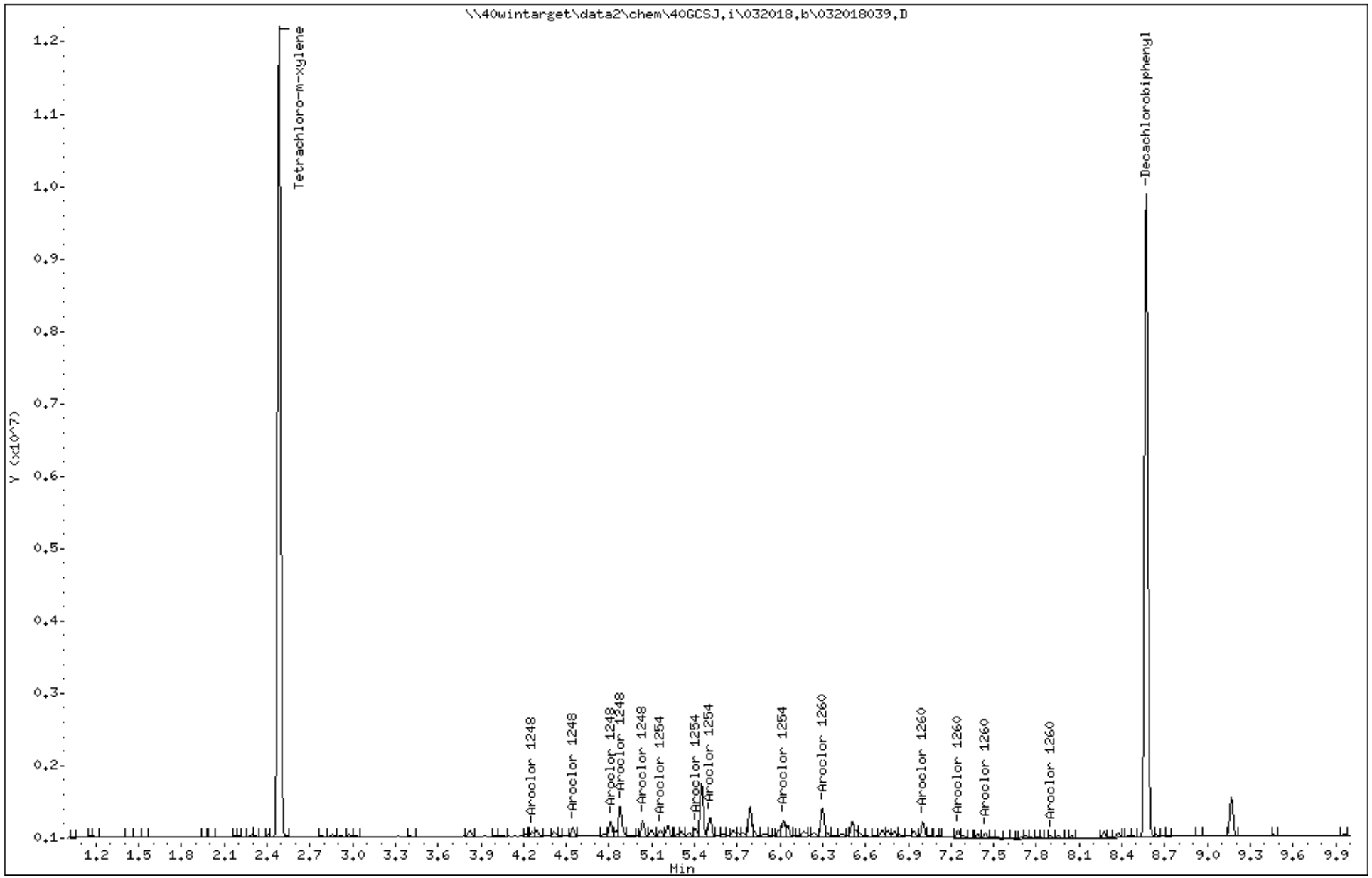
M - Compound response manually integrated.

Review Codes Legend

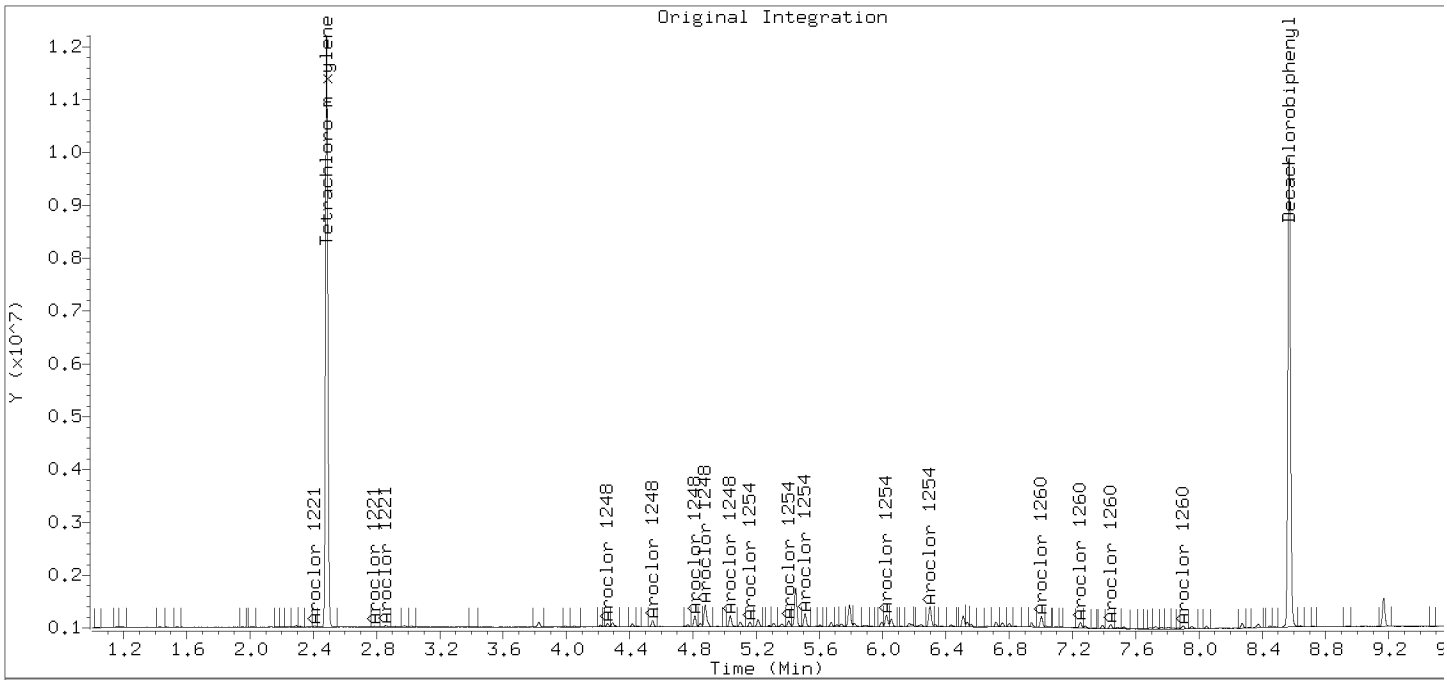
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

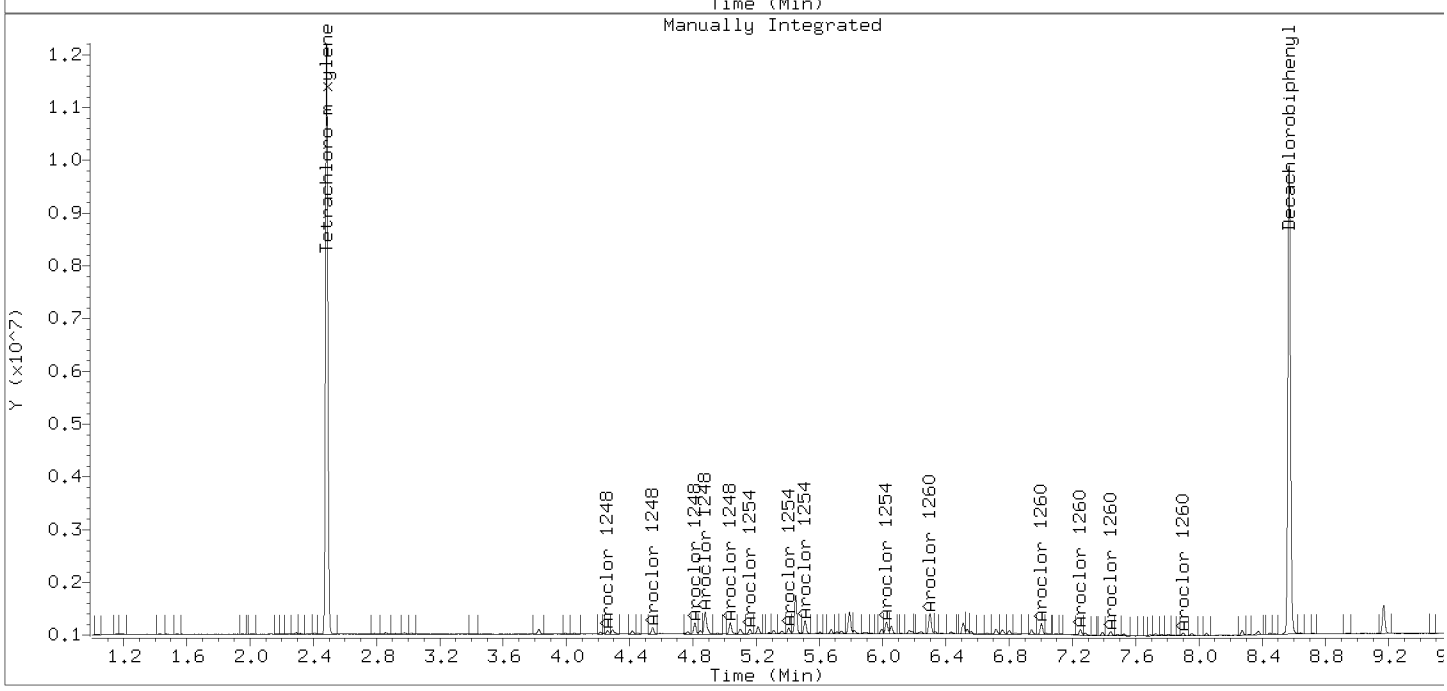
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018039.D
Date : 20-MAR-2018 22:33
Client ID: FD1-170613-01-BB-10
Sample Info: 40151705009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018039.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 22:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705009





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	52515	79113	BA
Aroclor 1248	52515	79113	BA
Aroclor 1248	52515	79113	BA
Aroclor 1248	52515	79113	BA
Aroclor 1248	52515	79113	BA
Aroclor 1254	95862	111245	BA
Aroclor 1254	95862	111245	BA
Aroclor 1254	95862	111245	BA
Aroclor 1254	95862	111245	BA
Aroclor 1254	95862	111245	BA
Aroclor 1260	439764	447485	BA
Aroclor 1260	439764	447485	BA
Aroclor 1260	439764	447485	BA
Aroclor 1260	439764	447485	BA
Aroclor 1260	439764	447485	BA
Tetrachloro-m-xylene	11563031	11563031	
Decachlorobiphenyl	10422642	10422642	

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SAMPLE NO.

FD1-170613-01-BB-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: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705010
Date Analyzed: 03/20/2018 23:21
Lab File ID: 032018.B\032018042.D
Initial wt/vol: 10.022 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)	14.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	11.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	15.6	J
1336-36-3	PCB, Total	42.3	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018042.D
Lab Smp Id: 40151705010 Client Smp ID: FD1-170613-01-BB-09
Inj Date : 20-MAR-2018 23:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705010,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
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	10.022	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	15281	11144	0.729	0.05		
1.154	12837	12369	0.964	0.04		
1.187	19571	14107	0.721	0.06		
1.428	9350	9280	0.993	0.03		
2.294	22141	16740	0.756	0.07		
2.410	26030	26043	1.000	0.09		
2.484	11264712	10793563	0.958	40.43	$ 2 Tetrachloro-m-xylene	
2.786	19565	17069	0.872	0.06		
2.858	36903	27443	0.744	0.13		
2.917	14347	10334	0.720	0.05		
2.973	39626	26337	0.665	0.14		
3.020	22306	17582	0.788	0.07		
3.398	11570	10292	0.890	0.04		
3.825	63688	46318	0.727	0.22		
3.995	15171	14207	0.936	0.05		
4.052	16268	15340	0.943	0.05		
4.217	30937	26513	0.857	0.10		
4.239	15856	19615	1.237	0.05		
4.262	41543	35881	0.864	0.14	6 Aroclor 1248	CO
4.294	47667	34880	0.732	0.16		
4.418	39300	30050	0.765	0.13		
4.453	20605	16946	0.822	0.07		
4.546	68643	52158	0.760	0.24	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.738	23635	16449	0.696	0.08	
4.769	31695	25083	0.791	0.11	
4.812	85226	69783	0.819	0.30	6 Aroclor 1248
4.845	40182	35563	0.885	0.14	
4.878	193916	136224	0.702	0.68	6 Aroclor 1248
4.957	25269	16203	0.641	0.08	
5.036	120482	111701	0.927	0.42	6 Aroclor 1248
5.057	17043	18757	1.101	0.06	
5.100	95803	67361	0.703	0.33	
5.161	86980	70325	0.809	0.30	7 Aroclor 1254
5.215	164321	141721	0.862	0.58	
5.281	29030	22656	0.780	0.10	
5.313	154036	138775	0.901	0.54	
5.364	57393	36738	0.640	0.20	
5.407	87937	66815	0.760	0.31	7 Aroclor 1254
5.451	546778	524186	0.959	1.94	
5.509	191683	163187	0.851	0.68	7 Aroclor 1254
5.605	39636	27383	0.691	0.14	
5.674	104909	88920	0.848	0.37	
5.710	55386	38820	0.701	0.19	
5.739	42055	34947	0.831	0.14	
5.789	346533	280206	0.809	1.22	
5.822	80888	57315	0.709	0.28	
5.899	95167	53522	0.562	0.33	
5.994	92401	84312	0.912	0.32	
6.025	164208	142735	0.869	0.58	7 Aroclor 1254
6.055	205147	175884	0.857	0.72	
6.169	117211	70630	0.603	0.41	
6.242	69928	38172	0.546	0.24	
6.299	442813	373242	0.843	1.57	8 Aroclor 1260
6.332	36912	44398	1.203	0.13	
6.375	21500	16097	0.749	0.07	
6.430	46758	35177	0.752	0.16	
6.508	307123	272373	0.887	1.08	
6.535	85692	78615	0.917	0.30	
6.560	67897	53863	0.793	0.24	
6.657	28898	23880	0.826	0.10	
6.717	121680	98202	0.807	0.43	
6.759	103675	86455	0.834	0.36	
6.800	85659	72809	0.850	0.30	
6.840	52946	28128	0.531	0.18	
6.942	75973	58487	0.770	0.26	
7.004	238522	209977	0.880	0.84	8 Aroclor 1260
7.033	30480	33839	1.110	0.10	
7.124	24176	16227	0.671	0.08	
7.251	116601	104729	0.898	0.41	8 Aroclor 1260
7.279	66860	43211	0.646	0.23	
7.334	22860	17586	0.769	0.08	
7.387	80208	72230	0.901	0.28	
7.441	92346	71098	0.770	0.32	8 Aroclor 1260
7.484	18751	13590	0.725	0.06	
7.580	11450	11816	1.032	0.04	
7.692	26855	29510	1.099	0.09	
7.728	50353	36622	0.727	0.17	
7.760	17528	13427	0.766	0.06	
7.799	29107	19149	0.658	0.10	
7.898	68737	51010	0.742	0.24	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.953	21077	14389	0.683	0.07	
8.048	27512	24998	0.909	0.09	
8.133	11758	8798	0.748	0.04	
8.273	94297	86879	0.921	0.33	
8.377	38519	26640	0.692	0.13	
8.447	16679	12969	0.778	0.05	
8.570	10101503	8666407	0.858	35.84	$ 12 Decachlorobiphenyl
8.641	17032	13619	0.800	0.06	
8.717	10033	8281	0.825	0.03	
9.055	11598	7198	0.621	0.04	
9.168	222303	192113	0.864	0.78	
	28183468	25086622		100.000	

Total unknown % area = 17

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018042.D
Lab Smp Id: 40151705010 Client Smp ID: FD1-170613-01-BB-09
Inj Date : 20-MAR-2018 23:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705010,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
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	10.022	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	11264712	0.09136	46			
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			
4.262	4.261	0.001	41543	0.01773	8.8	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	68643	0.01654	8.2	0.00- 20.00	165.23	CO
4.812	4.812	0.000	85226	0.04198	21	0.00- 20.00	205.15	CO
4.878	4.879	-0.001	193916	0.03849	19	0.00- 20.00	466.78	CO
5.036	5.038	-0.002	120481	0.03357	17	0.00- 20.00	290.02	CO
Average of Peak Concentrations =					15			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	86979	0.01661	8.3	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	87937	0.02045	10	0.00- 20.00	101.10	CO
5.509	5.510	-0.001	191682	0.02468	12	0.00- 20.00	220.38	CO
6.025	6.027	-0.002	164207	0.03372	17	0.00- 20.00	188.79	CO
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					12			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	442813	0.04997	25	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	238521	0.02382	12	0.00- 20.00	53.86	CO
7.250	7.251	-0.001	116600	0.02439	12	0.00- 20.00	26.33	CO
7.441	7.443	-0.002	92346	0.03168	16	0.00- 20.00	20.85	CO
7.898	7.901	-0.003	68737	0.02605	13	0.00- 20.00	15.52	CO
Average of Peak Concentrations =					16			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10101503	0.09220	46			

QC Flag Legend

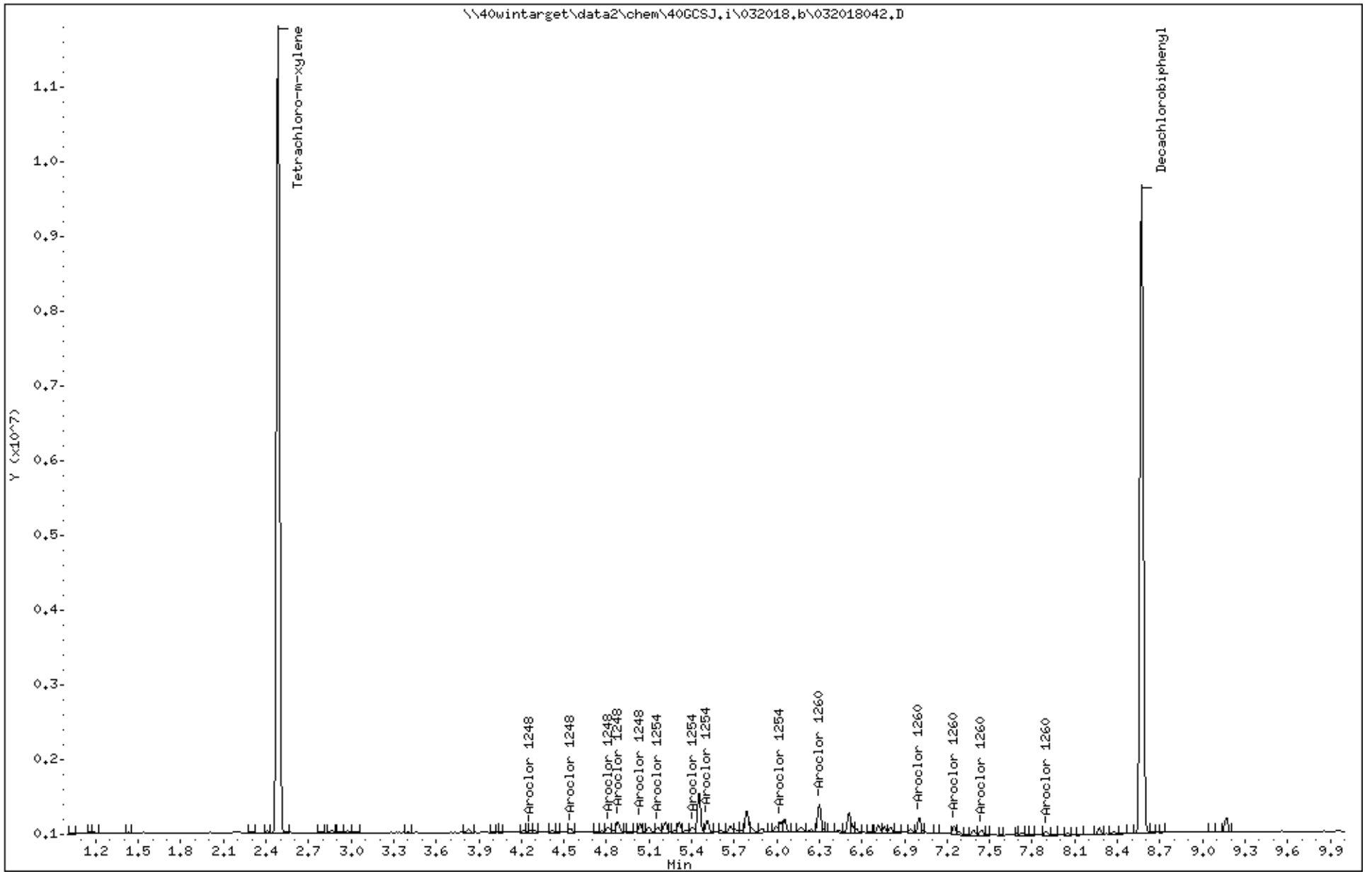
M - Compound response manually integrated.

Review Codes Legend

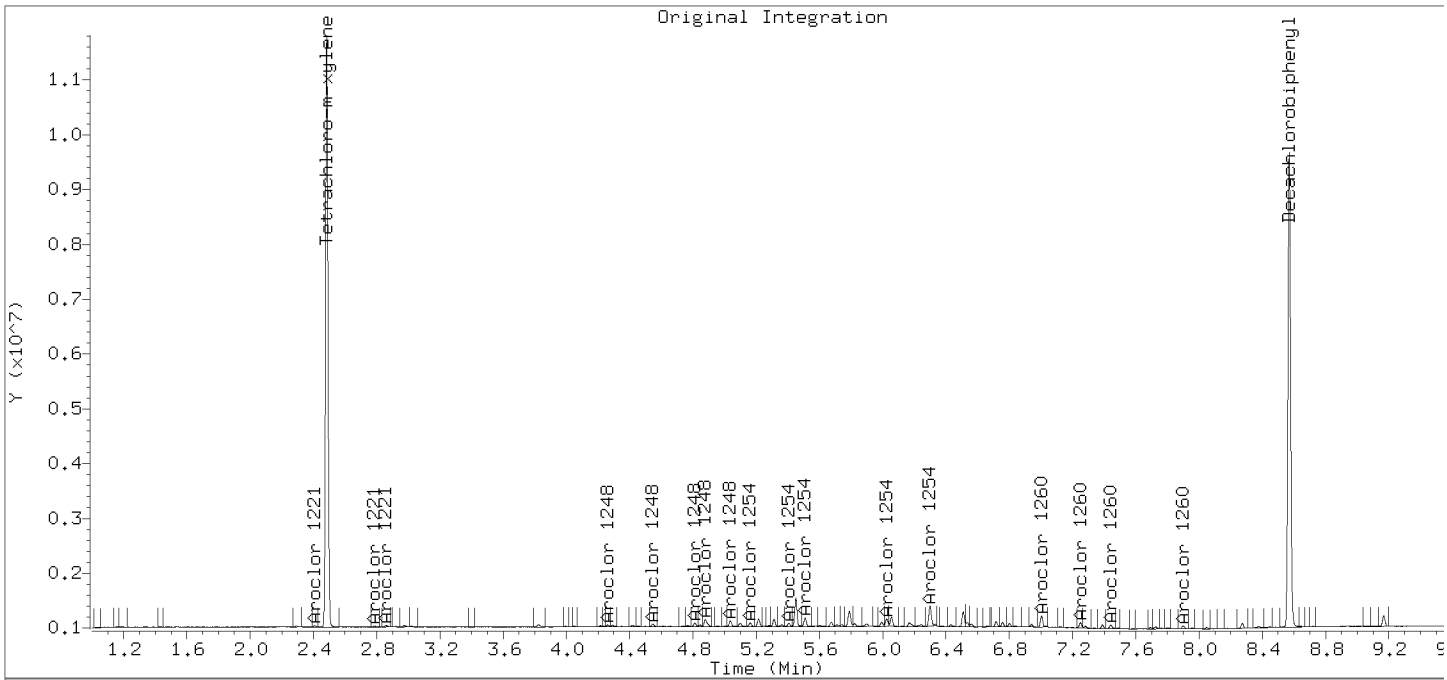
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

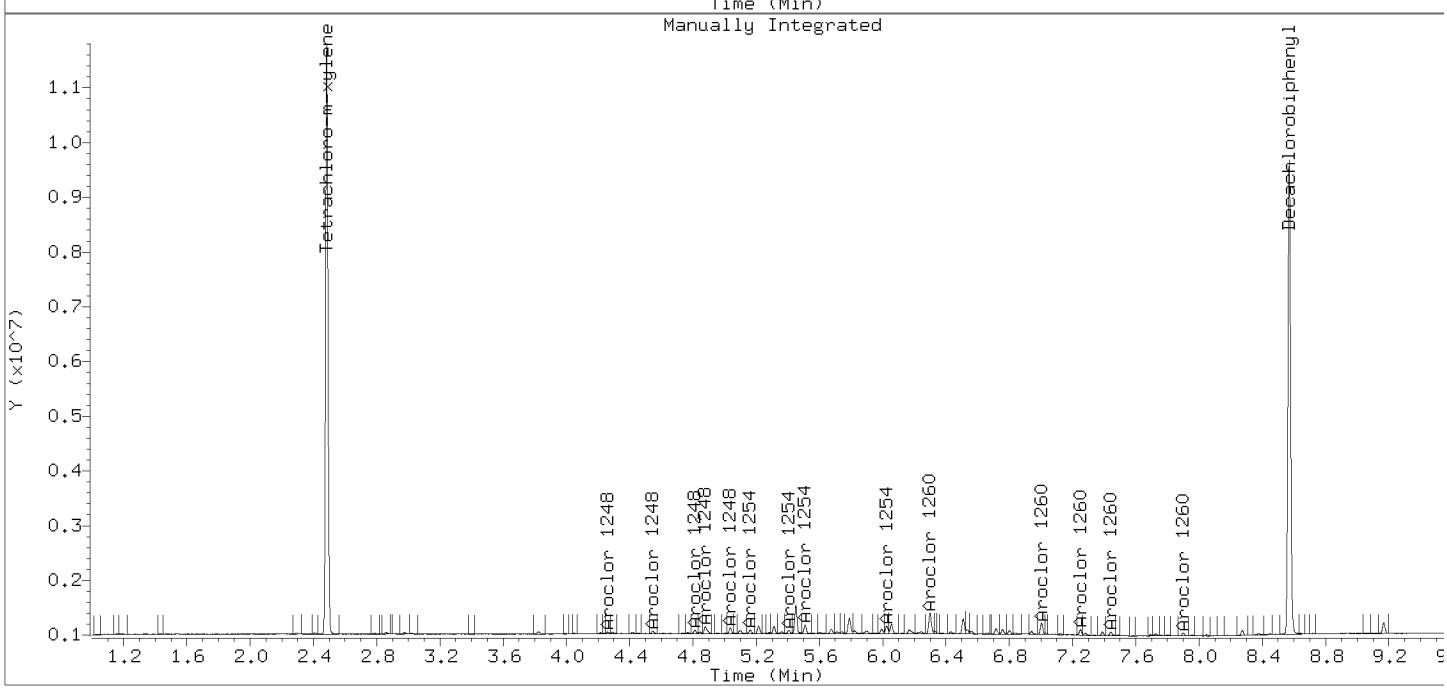
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018042.D
Date : 20-MAR-2018 23:21
Client ID: FD1-170613-01-BB-09
Sample Info: 40151705010,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018042.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 23:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705010





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	32929	41543	CO
Aroclor 1248	32929	41543	CO
Aroclor 1248	32929	41543	CO
Aroclor 1248	32929	41543	CO
Aroclor 1248	32929	41543	CO
Aroclor 1254	73775	86979	CO
Aroclor 1254	73775	86979	CO
Aroclor 1254	73775	86979	CO
Aroclor 1254	73775	86979	CO
Aroclor 1254	73775	86979	CO
Aroclor 1260	429699	442813	CO
Aroclor 1260	429699	442813	CO
Aroclor 1260	429699	442813	CO
Aroclor 1260	429699	442813	CO
Aroclor 1260	429699	442813	CO
Tetrachloro-m-xylene	11264712	11264712	
Decachlorobiphenyl	10101503	10101503	

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SAMPLE NO.

FD1-170613-01-BB-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: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705011

Date Analyzed: 03/20/2018 23:36

Lab File ID: 032018.B\032018043.D

Initial wt/vol: 10.0245 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018043.D
Lab Smp Id: 40151705011 Client Smp ID: FD1-170613-01-BB-08
Inj Date : 20-MAR-2018 23:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705011,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 43
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
1.032	11542	8971	0.777	0.04		
1.429	11314	9210	0.814	0.04		
1.537	11356	9705	0.855	0.04		
2.293	13233	10686	0.808	0.05		
2.408	18788	17406	0.926	0.07	1 Aroclor 1221	
2.484	10683572	10406334	0.974	44.24	$ 2 Tetrachloro-m-xylene	
2.785	20613	18005	0.873	0.08	1 Aroclor 1221	
2.861	32018	21837	0.682	0.13	1 Aroclor 1221	
2.920	12793	10627	0.831	0.05		
2.973	33500	22190	0.662	0.13		
3.021	19870	16062	0.808	0.08		
3.399	13928	10947	0.786	0.05		
3.826	38690	27845	0.720	0.15	5 Aroclor 1016	
3.927	10236	7471	0.730	0.04	5 Aroclor 1016	
3.997	16050	11040	0.688	0.06	5 Aroclor 1016	
4.050	15161	12477	0.823	0.06		
4.214	25424	24727	0.973	0.10		
4.239	28092	27830	0.991	0.11		
4.260	29548	28982	0.981	0.12	6 Aroclor 1248	CO
4.293	43556	30182	0.693	0.17		
4.417	32347	26871	0.831	0.13		
4.451	21218	13222	0.623	0.08		
4.547	52307	42429	0.811	0.21	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.767	24672	21731	0.881	0.10	
4.813	72976	63170	0.866	0.29	6 Aroclor 1248
4.847	28257	23984	0.849	0.11	
4.879	153000	116675	0.763	0.62	6 Aroclor 1248
5.037	66393	61505	0.926	0.27	6 Aroclor 1248
5.052	14144	13804	0.976	0.05	
5.101	43902	32262	0.735	0.18	
5.161	56915	42064	0.739	0.23	7 Aroclor 1254
5.213	63681	49766	0.781	0.26	
5.311	33984	27225	0.801	0.13	
5.345	46206	28148	0.609	0.18	
5.408	52113	41456	0.796	0.21	7 Aroclor 1254
5.452	247854	230802	0.931	1.01	
5.509	107667	79168	0.735	0.44	7 Aroclor 1254
5.603	23939	19353	0.808	0.09	
5.673	44138	32950	0.747	0.18	
5.711	19350	17695	0.914	0.07	
5.740	39256	25910	0.660	0.16	
5.791	195215	159566	0.817	0.80	
5.822	46044	25377	0.551	0.18	
5.887	34422	17604	0.511	0.14	
5.994	45847	42892	0.936	0.18	
6.026	93678	79454	0.848	0.38	7 Aroclor 1254
6.053	69273	57270	0.827	0.28	
6.168	53920	32339	0.600	0.22	
6.232	30871	19465	0.631	0.12	
6.298	183364	157753	0.860	0.75	7 Aroclor 1254
6.331	24149	19659	0.814	0.09	
6.367	15333	11915	0.777	0.06	
6.432	29230	18577	0.636	0.11	
6.509	127128	115856	0.911	0.52	
6.536	38787	38156	0.984	0.15	
6.561	29303	24627	0.840	0.12	
6.718	57743	46518	0.806	0.23	
6.758	48485	41066	0.847	0.19	
6.800	43755	34861	0.797	0.17	
6.941	51200	41981	0.820	0.21	
7.004	132466	117952	0.890	0.54	8 Aroclor 1260
7.034	12972	15349	1.183	0.05	
7.121	27677	14511	0.524	0.11	
7.251	75009	60633	0.808	0.30	8 Aroclor 1260
7.283	44010	27442	0.624	0.18	
7.336	15403	12628	0.820	0.06	
7.389	50075	44387	0.886	0.20	
7.440	61022	51318	0.841	0.25	8 Aroclor 1260
7.486	16870	13208	0.783	0.06	
7.583	11321	10193	0.900	0.04	
7.689	23101	19866	0.860	0.09	
7.725	46157	35357	0.766	0.18	
7.800	30383	19362	0.637	0.12	
7.901	48059	34951	0.727	0.19	8 Aroclor 1260
7.954	29585	18657	0.631	0.12	
8.047	31363	27665	0.882	0.12	
8.274	93480	83817	0.897	0.38	
8.318	10646	9455	0.888	0.04	
8.375	43869	30513	0.696	0.17	
8.448	17353	14945	0.861	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.476	9266	8410	0.908	0.03	
8.571	9721141	8473368	0.872	39.87	$ 12 Decachlorobiphenyl
8.941	12527	9601	0.766	0.05	
9.168	261835	232541	0.888	1.07	
	24376932	22113789		100.000	

Total unknown % area = 10

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018043.D
Lab Smp Id: 40151705011 Client Smp ID: FD1-170613-01-BB-08
Inj Date : 20-MAR-2018 23:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705011,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 43
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

Compound Not Detected.

$ 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	10683571	0.08665	43			

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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).

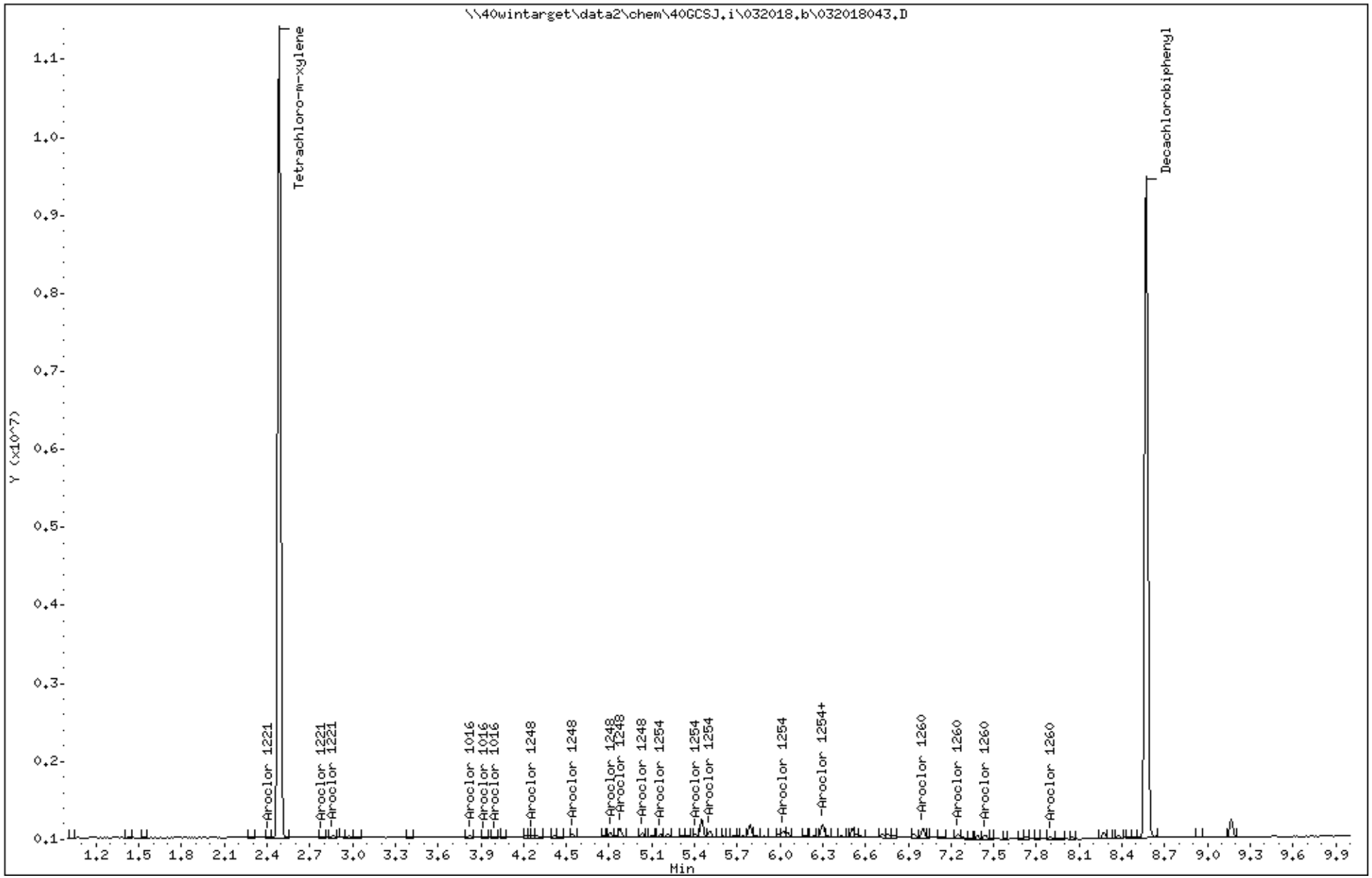
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Compound Not Detected.								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9721140	0.08873	44			

Review Codes Legend

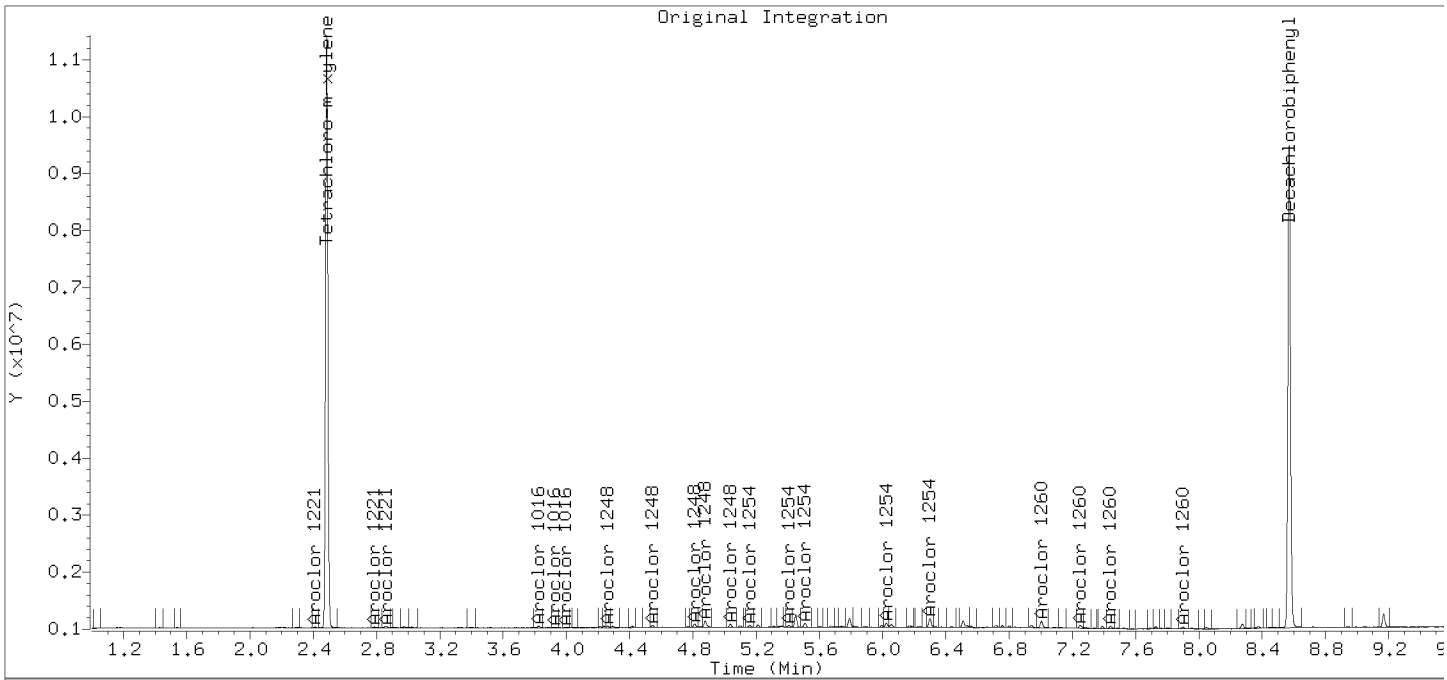
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

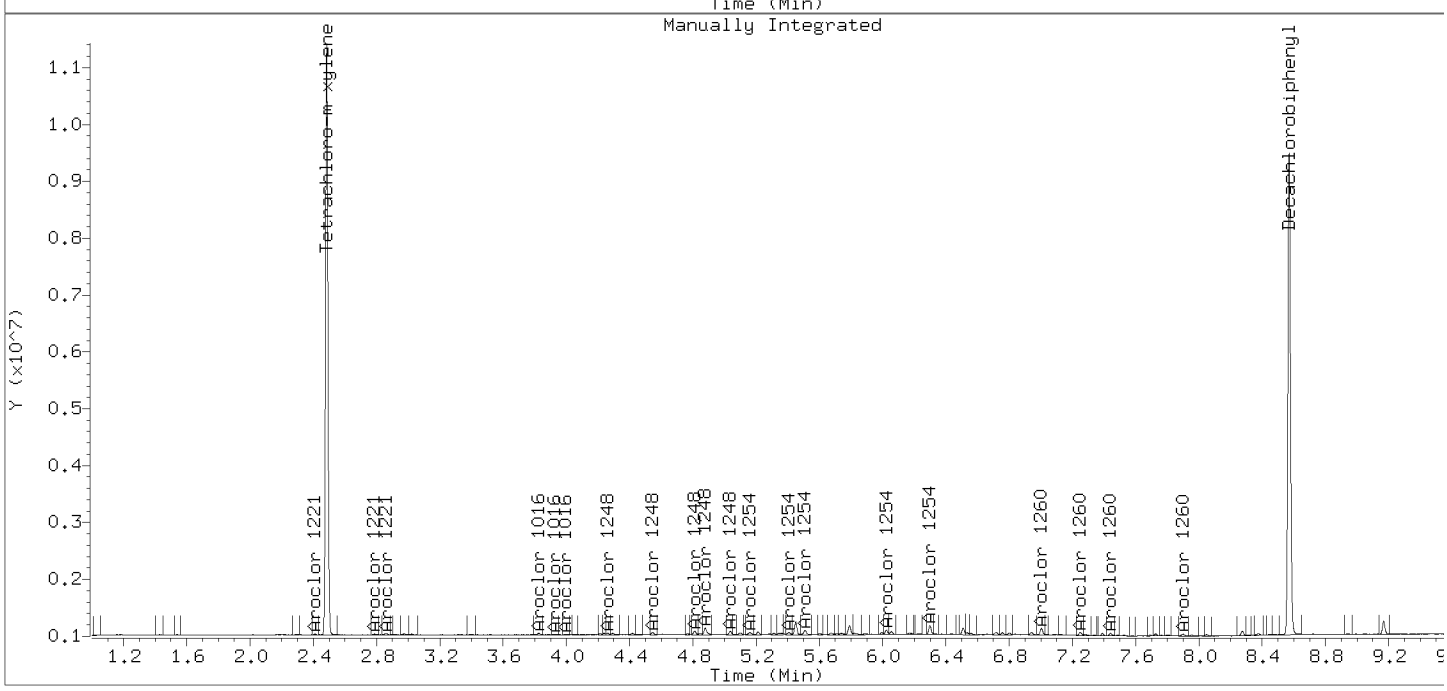
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018043.D
Date : 20-MAR-2018 23:36
Client ID: FD1-170613-01-BB-08
Sample Info: 40151705011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018043.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 23:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705011





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	27019	0	CO
Aroclor 1248	27019	0	CO
Aroclor 1248	27019	0	CO
Aroclor 1248	27019	0	CO
Aroclor 1248	27019	0	CO
Aroclor 1254	44373	0	BA
Aroclor 1254	44373	0	BA
Aroclor 1254	44373	0	BA
Aroclor 1254	44373	0	BA
Aroclor 1254	44373	0	BA
Aroclor 1260	179887	0	CO
Aroclor 1260	179887	0	CO
Aroclor 1260	179887	0	CO
Aroclor 1260	179887	0	CO
Aroclor 1260	179887	0	CO
Tetrachloro-m-xylene	10683571	10683571	
Decachlorobiphenyl	9721140	9721140	

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SAMPLE NO.

FD1-170613-01-BB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705012
Date Analyzed: 03/20/2018 23:52
Lab File ID: 032018.B\032018044.D
Initial wt/vol: 9.973 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)	14.5	J
1336-36-3	PCB, Total	14.5	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018044.D
Lab Smp Id: 40151705012 Client Smp ID: FD1-170613-01-BB-07
Inj Date : 20-MAR-2018 23:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705012,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44
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	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	12435	8764	0.705	0.04		
1.159	14540	9874	0.679	0.05		
1.430	10344	8909	0.861	0.03		
1.537	13881	10873	0.783	0.05		
2.291	17196	15613	0.908	0.06		
2.319	14154	13934	0.984	0.05		
2.409	26615	23318	0.876	0.10		
2.484	10961073	10856924	0.990	41.96	$ 2 Tetrachloro-m-xylene	
2.787	20360	16405	0.806	0.07		
2.856	28377	20819	0.734	0.10		
2.919	17900	12214	0.682	0.06		
2.971	29113	16746	0.575	0.11		
3.019	12286	12208	0.994	0.04		
3.401	17867	14822	0.830	0.06		
3.692	9742	8925	0.916	0.03		
3.825	33800	24613	0.728	0.12		
4.047	28071	17877	0.637	0.10		
4.215	22149	19273	0.870	0.08		
4.240	30526	29113	0.954	0.11		
4.263	20630	21711	1.052	0.07	6 Aroclor 1248	CO
4.291	35074	25299	0.721	0.13		
4.416	29336	20217	0.689	0.11		
4.547	44732	29683	0.664	0.16	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.605	35195	14624	0.416	0.13	
4.768	30439	21050	0.692	0.11	
4.812	54244	42596	0.785	0.20	6 Aroclor 1248
4.848	26799	20378	0.760	0.10	
4.879	116429	70430	0.605	0.44	6 Aroclor 1248
4.955	24813	12225	0.493	0.09	
5.037	43615	36322	0.833	0.16	6 Aroclor 1248
5.060	20824	19701	0.946	0.07	
5.100	71576	42885	0.599	0.27	
5.161	52434	40714	0.776	0.19	7 Aroclor 1254
5.212	66992	49572	0.740	0.25	
5.282	19076	16216	0.850	0.07	
5.313	51649	40571	0.786	0.19	
5.345	54207	27323	0.504	0.20	
5.404	63800	44806	0.702	0.24	7 Aroclor 1254
5.451	654201	642503	0.982	2.47	
5.509	141412	112883	0.798	0.53	7 Aroclor 1254
5.601	32691	21340	0.653	0.12	
5.673	98904	88812	0.898	0.37	
5.709	40344	29829	0.739	0.15	
5.739	40356	29352	0.727	0.15	
5.788	264408	214182	0.810	1.00	
5.822	73692	50722	0.688	0.27	
5.888	42593	20416	0.479	0.16	
5.994	84526	77613	0.918	0.32	
6.025	124251	103982	0.837	0.47	7 Aroclor 1254
6.054	113108	93300	0.825	0.42	
6.169	107677	62799	0.583	0.40	
6.225	18101	23040	1.273	0.06	
6.241	45029	35359	0.785	0.17	
6.299	390198	317899	0.815	1.47	8 Aroclor 1260
6.334	43014	39301	0.914	0.16	
6.374	20136	17077	0.848	0.07	
6.432	41319	32514	0.787	0.15	
6.510	242305	214767	0.886	0.91	
6.536	115162	78608	0.683	0.43	
6.608	13295	10197	0.767	0.05	
6.657	28860	21449	0.743	0.10	
6.717	92113	80913	0.878	0.34	
6.757	90446	76840	0.850	0.34	
6.802	70408	62019	0.881	0.26	
6.841	28613	20538	0.718	0.10	
6.941	60136	51210	0.852	0.22	
7.004	218778	200522	0.917	0.82	8 Aroclor 1260
7.035	24974	29807	1.194	0.09	
7.123	27009	14782	0.547	0.10	
7.250	132891	113323	0.853	0.50	8 Aroclor 1260
7.281	60982	40222	0.660	0.23	
7.336	18185	13697	0.753	0.06	
7.389	74813	62862	0.840	0.28	
7.442	80789	63715	0.789	0.30	8 Aroclor 1260
7.526	17660	10947	0.620	0.06	
7.691	25479	26443	1.038	0.09	
7.727	44122	33933	0.769	0.16	
7.803	27449	18153	0.661	0.10	
7.899	62252	49250	0.791	0.23	8 Aroclor 1260
8.048	28089	24107	0.858	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.140	9467	7645	0.808	0.03	
8.273	91142	82539	0.906	0.34	
8.375	30188	23372	0.774	0.11	
8.444	12486	10796	0.865	0.04	
8.571	9961167	8681255	0.872	37.73	$ 12 Decachlorobiphenyl
9.168	151604	129152	0.852	0.57	
	26399114	24003533		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018044.D
Lab Smp Id: 40151705012 Client Smp ID: FD1-170613-01-BB-07
Inj Date : 20-MAR-2018 23:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705012,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44
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	9.973	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	10961072	0.08890	44			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	390198	0.04403	22	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	218777	0.02185	11	0.00- 20.00	56.07	CO
7.249	7.251	-0.002	132891	0.02780	14	0.00- 20.00	34.06	CO
7.442	7.443	-0.001	80788	0.02771	14	0.00- 20.00	20.70	CO
7.898	7.901	-0.003	62251	0.02359	12	0.00- 20.00	15.95	CO
Average of Peak Concentrations =					14			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9961166	0.09092	46			

QC Flag Legend

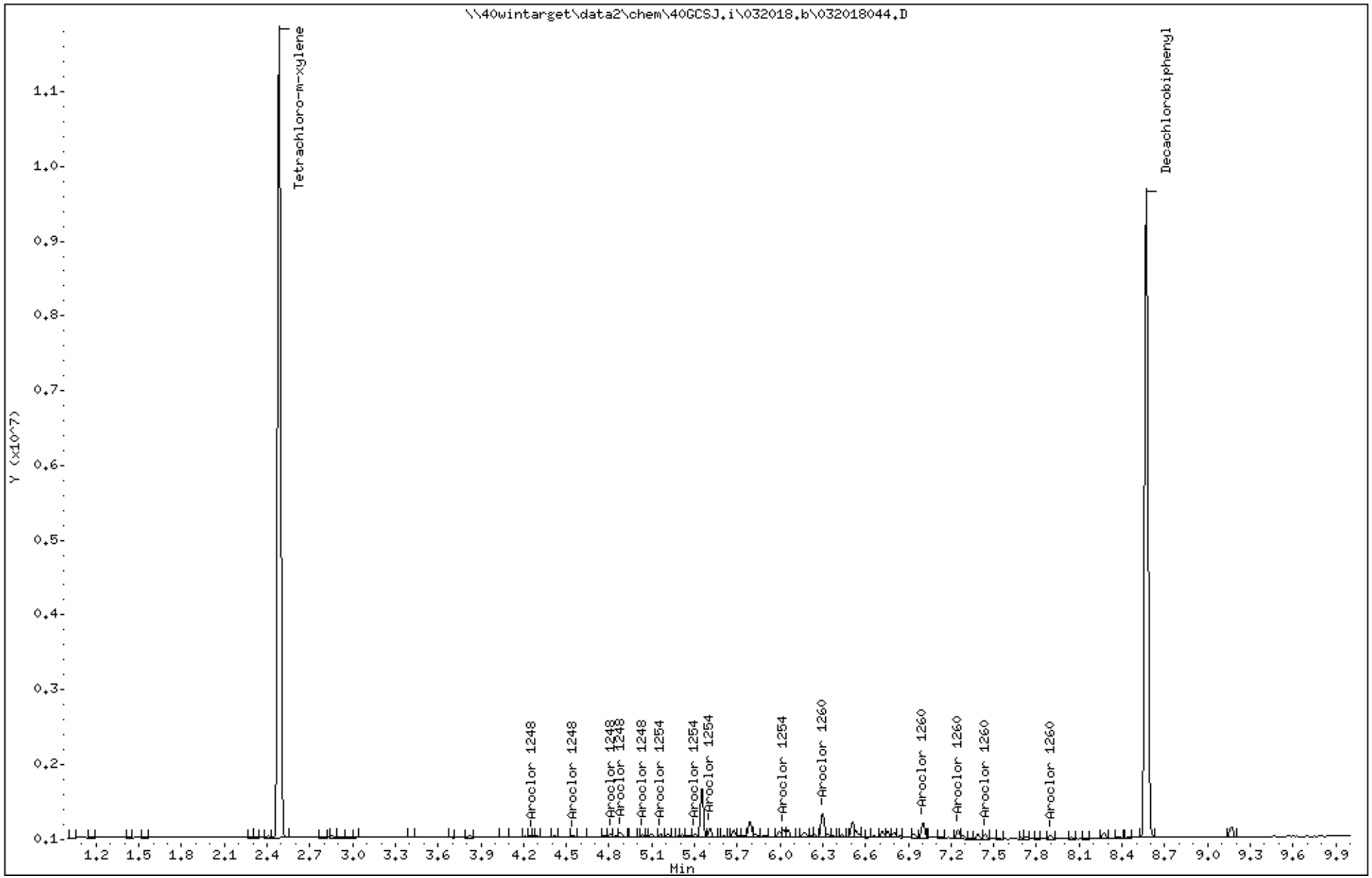
M - Compound response manually integrated.

Review Codes Legend

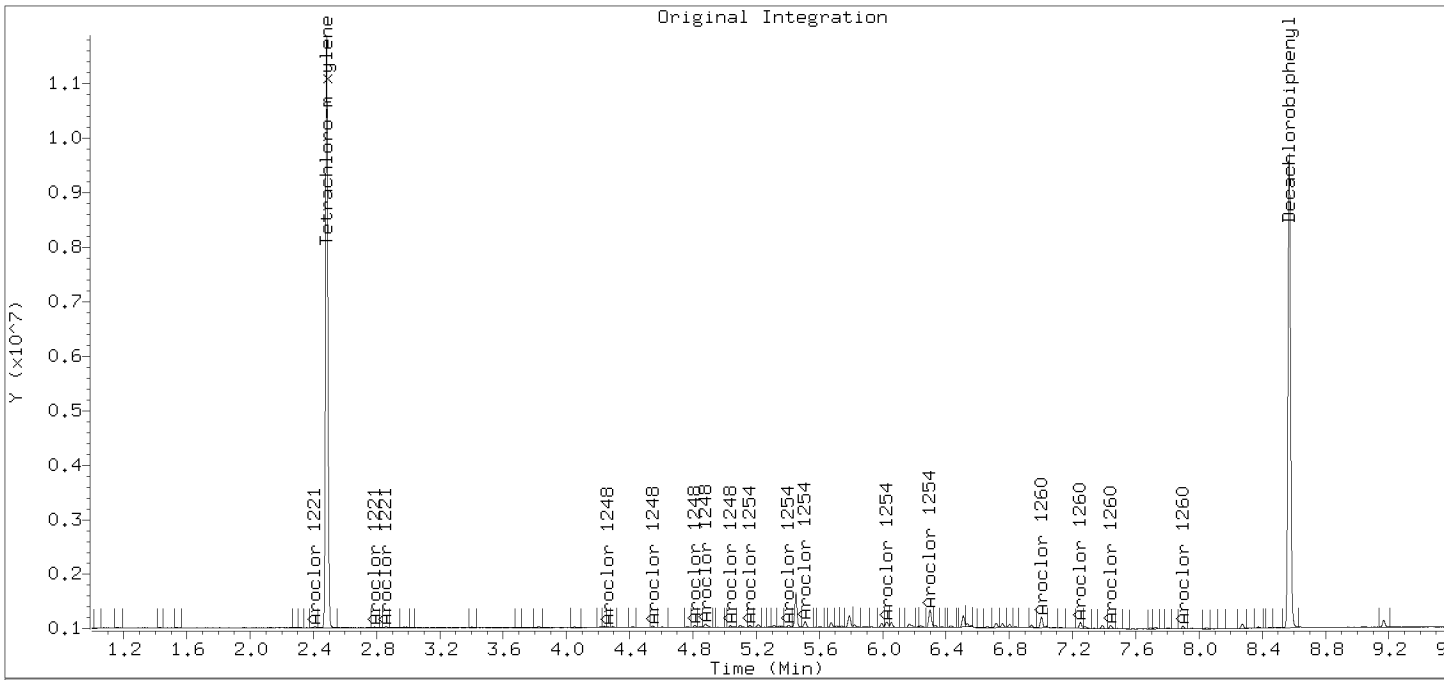
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

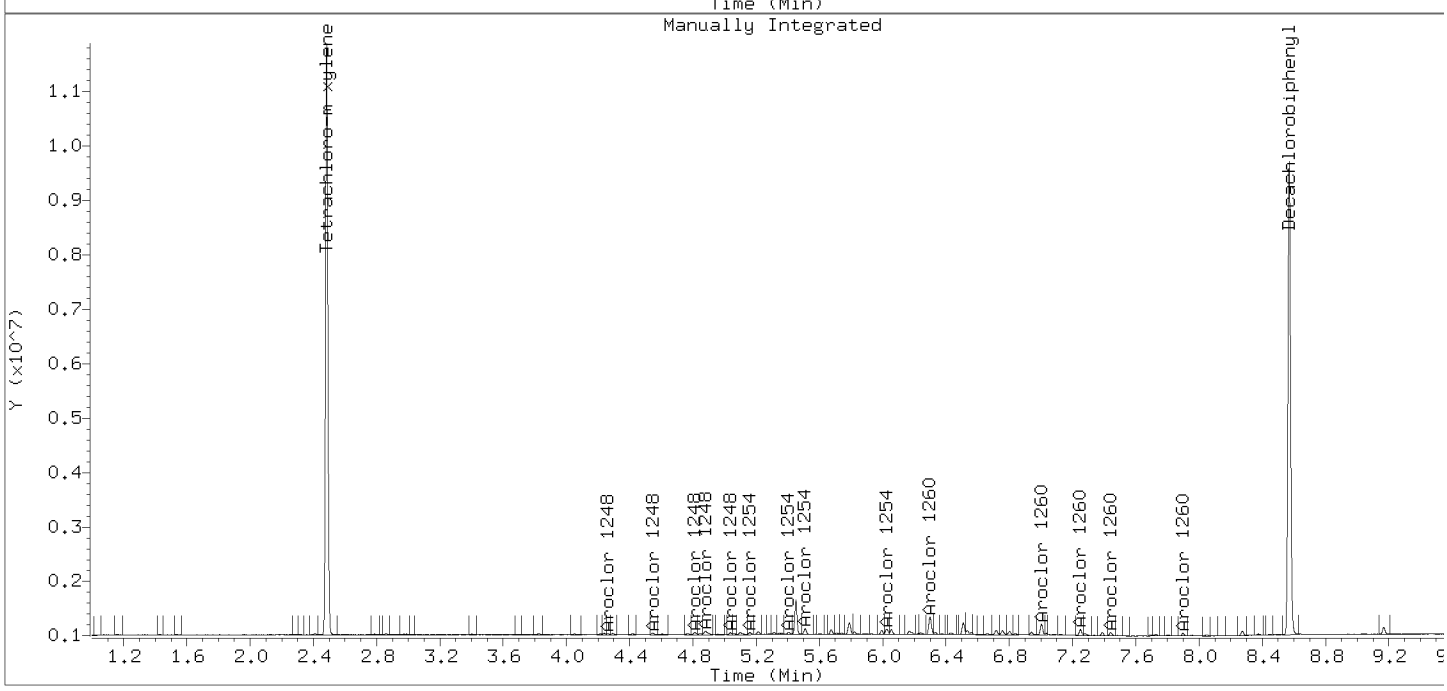
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018044.D
Date : 20-MAR-2018 23:52
Client ID: FD1-170613-01-BB-07
Sample Info: 40151705012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018044.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 23:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705012





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	14924	0	CO
Aroclor 1248	14924	0	CO
Aroclor 1248	14924	0	CO
Aroclor 1248	14924	0	CO
Aroclor 1248	14924	0	CO
Aroclor 1254	41117	0	BA
Aroclor 1254	41117	0	BA
Aroclor 1254	41117	0	BA
Aroclor 1254	41117	0	BA
Aroclor 1254	41117	0	BA
Aroclor 1260	386465	390198	CO
Aroclor 1260	386465	390198	CO
Aroclor 1260	386465	390198	CO
Aroclor 1260	386465	390198	CO
Aroclor 1260	386465	390198	CO
Tetrachloro-m-xylene	10961072	10961072	
Decachlorobiphenyl	9961166	9961166	

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SAMPLE NO.

FD1-170613-01-BB-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: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705013

Date Analyzed: 03/21/2018 00:08

Lab File ID: 032018.B\032018045.D

Initial wt/vol: 10.0077 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018045.D
Lab Smp Id: 40151705013 Client Smp ID: FD1-170613-01-BB-06
Inj Date : 21-MAR-2018 00:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705013,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 45
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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.027	11116	9055	0.815	0.04			
1.154	9409	9952	1.058	0.03			
1.185	15460	10340	0.669	0.06			
1.431	11319	10160	0.898	0.04			
1.535	11686	9952	0.852	0.04			
2.009	9550	9221	0.966	0.03			
2.291	9782	13696	1.400	0.03			
2.317	9633	11072	1.149	0.03			
2.408	18760	18401	0.981	0.07		1 Aroclor 1221	
2.484	10687096	10379999	0.971	42.98	$	2 Tetrachloro-m-xylene	
2.787	15983	15616	0.977	0.06		1 Aroclor 1221	
2.859	42717	24578	0.575	0.16		1 Aroclor 1221	
2.917	13028	11150	0.856	0.05			
2.970	22350	13636	0.610	0.08			
3.023	14973	12018	0.803	0.05			
3.403	9847	9384	0.953	0.03			
3.826	22977	19437	0.846	0.09			
4.047	16687	14653	0.878	0.06			
4.216	14517	13832	0.953	0.05			
4.237	24634	23426	0.951	0.09			
4.261	16180	16026	0.991	0.06		6 Aroclor 1248	CO
4.290	35172	20712	0.589	0.13			
4.417	16986	14475	0.852	0.06			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.547	29109	21880	0.752	0.11	6 Aroclor 1248
4.599	22664	13335	0.588	0.09	
4.766	26329	20996	0.797	0.10	
4.812	45017	36055	0.801	0.17	6 Aroclor 1248
4.845	20627	17664	0.856	0.08	
4.878	92294	60199	0.652	0.36	6 Aroclor 1248
4.956	15292	9444	0.618	0.06	
5.036	28747	23581	0.820	0.11	6 Aroclor 1248
5.055	18243	15517	0.851	0.07	
5.100	51275	30577	0.596	0.20	
5.161	50954	35562	0.698	0.20	7 Aroclor 1254
5.212	58198	43573	0.749	0.23	
5.311	45842	35373	0.772	0.18	
5.346	45286	23665	0.523	0.18	
5.405	39868	32270	0.809	0.15	7 Aroclor 1254
5.450	306003	294979	0.964	1.21	
5.509	100161	68766	0.687	0.39	7 Aroclor 1254
5.672	42724	33164	0.776	0.16	
5.709	29114	20334	0.698	0.11	
5.742	29511	22742	0.771	0.11	
5.789	174710	142758	0.817	0.69	
5.821	57639	38576	0.669	0.22	
5.992	56348	53744	0.954	0.22	
6.023	74986	65211	0.870	0.29	7 Aroclor 1254
6.055	88660	76037	0.858	0.35	
6.169	36373	33093	0.910	0.14	
6.244	39067	23653	0.605	0.15	
6.300	221093	186646	0.844	0.87	7 Aroclor 1254
6.332	23708	24075	1.015	0.09	
6.372	15415	10498	0.681	0.06	
6.433	32984	21070	0.639	0.13	
6.509	148683	137164	0.923	0.59	
6.534	46644	43933	0.942	0.18	
6.557	36406	26877	0.738	0.14	
6.613	11515	7757	0.674	0.04	
6.660	17911	14325	0.800	0.07	
6.717	59642	49031	0.822	0.23	
6.758	59291	50755	0.856	0.23	
6.801	47045	41238	0.877	0.18	
6.838	20229	17847	0.882	0.08	
6.941	52848	42829	0.810	0.21	
7.004	134353	124397	0.926	0.53	8 Aroclor 1260
7.037	16111	18129	1.125	0.06	
7.122	11375	10562	0.928	0.04	
7.250	79459	64775	0.815	0.31	8 Aroclor 1260
7.282	45675	31125	0.681	0.18	
7.339	19609	14820	0.756	0.07	
7.389	58746	50925	0.867	0.23	
7.442	72367	55755	0.770	0.28	8 Aroclor 1260
7.485	31453	20468	0.651	0.12	
7.527	31755	22374	0.705	0.12	
7.583	11073	10939	0.988	0.04	
7.691	25025	22906	0.915	0.09	
7.725	51452	37477	0.728	0.20	
7.760	24701	17337	0.702	0.09	
7.803	29792	20578	0.691	0.11	
7.899	53993	39626	0.734	0.21	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.955	41885	27491	0.656	0.16	
8.051	27946	23997	0.859	0.11	
8.274	99698	87104	0.874	0.39	
8.319	17798	14425	0.810	0.07	
8.375	93368	60350	0.646	0.37	
8.447	37757	28744	0.761	0.15	
8.481	22686	16071	0.708	0.09	
8.570	10059285	8595032	0.854	40.02	$ 12 Decachlorobiphenyl
8.638	40482	19897	0.491	0.16	
8.719	17874	12072	0.675	0.07	
9.168	498468	447775	0.898	1.98	
	25132503	22552735		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018045.D
Lab Smp Id: 40151705013 Client Smp ID: FD1-170613-01-BB-06
Inj Date : 21-MAR-2018 00:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705013,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 45
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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.483	2.484	-0.001	10687095	0.08668	43			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

Qualifier signal(s) failed ratio test. CO

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7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test. BA

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8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test. CO

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10059285	0.09182	46			

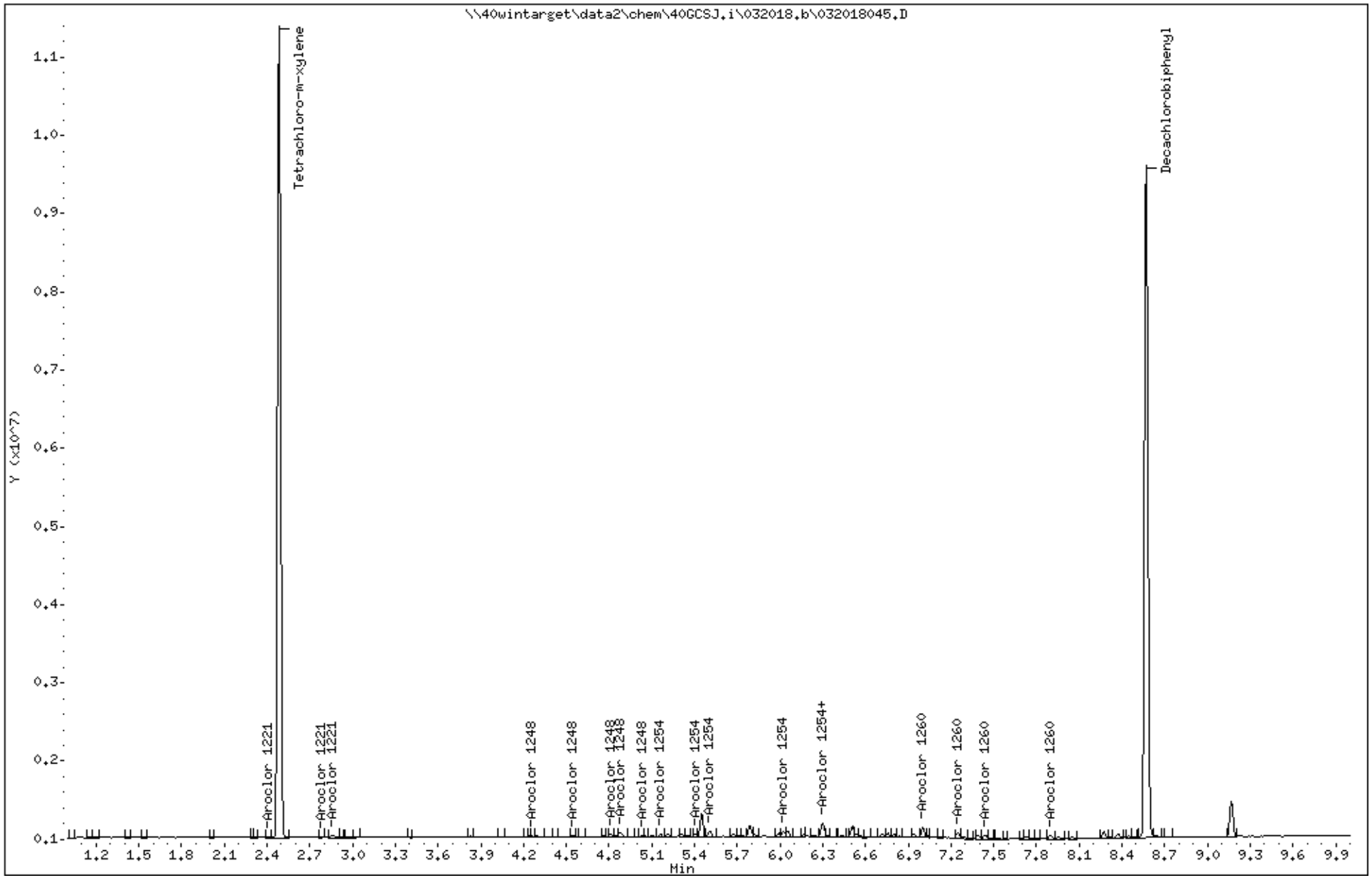
Review Codes Legend

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.

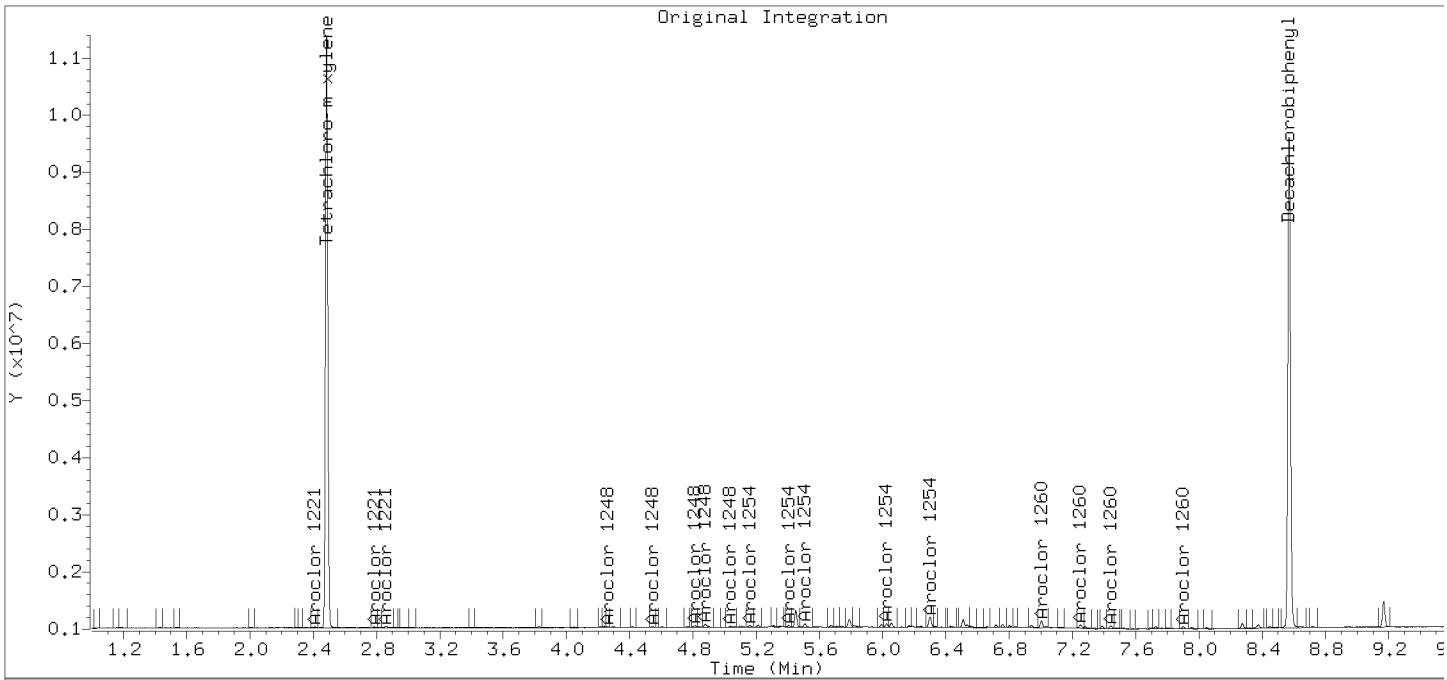
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

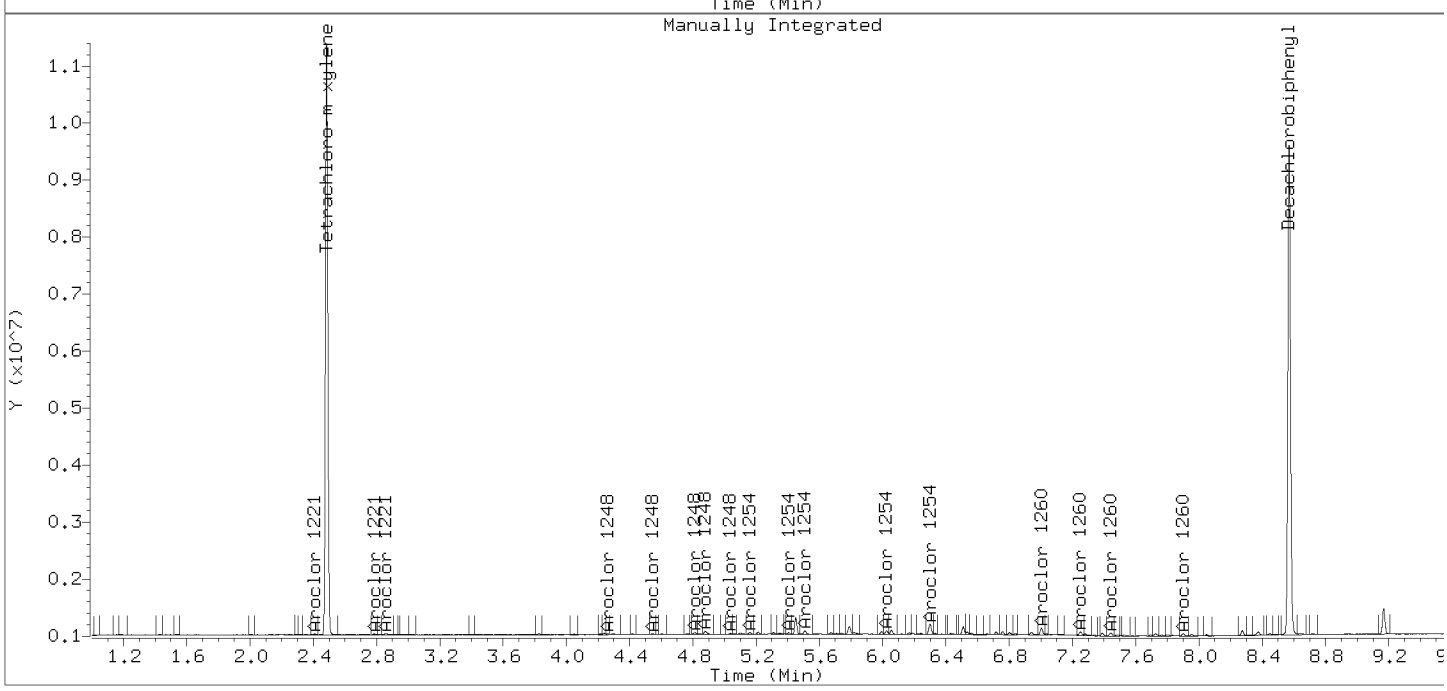
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018045.D
Date : 21-MAR-2018 00:08
Client ID: FD1-170613-01-BB-06
Sample Info: 40151705013,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018045.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 00:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705013





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	13778	0	CO
Aroclor 1248	13778	0	CO
Aroclor 1248	13778	0	CO
Aroclor 1248	13778	0	CO
Aroclor 1248	13778	0	CO
Aroclor 1254	36996	0	BA
Aroclor 1254	36996	0	BA
Aroclor 1254	36996	0	BA
Aroclor 1254	36996	0	BA
Aroclor 1254	36996	0	BA
Aroclor 1260	219044	0	CO
Aroclor 1260	219044	0	CO
Aroclor 1260	219044	0	CO
Aroclor 1260	219044	0	CO
Aroclor 1260	219044	0	CO
Tetrachloro-m-xylene	10687095	10687095	
Decachlorobiphenyl	10059285	10059285	

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SAMPLE NO.

FD1-170613-01-BB-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: 06/15/2017 09:55
Matrix: Tissue SDG No.: 40151705
Date Extracted: 03/16/2018 07:30
Lab Sample ID: 40151705014
Date Analyzed: 03/21/2018 00:24
Lab File ID: 032018.B\032018046.D
Initial wt/vol: 10.0189 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)	44.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	12.2	J
1336-36-3	PCB, Total	77.8	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018046.D
Lab Smp Id: 40151705014 Client Smp ID: FD1-170613-01-BB-05
Inj Date : 21-MAR-2018 00:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705014,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 46
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	10.019	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.031	12672	8830	0.697	0.04		
1.158	41593	40259	0.968	0.13		
1.426	13855	11488	0.829	0.04		
1.537	11231	10452	0.931	0.03		
1.673	10326	7480	0.724	0.03		
1.951	14351	10530	0.734	0.04		
2.292	13839	14103	1.019	0.04		
2.408	48057	48663	1.013	0.15		
2.484	10897191	10606272	0.973	36.36	$ 2 Tetrachloro-m-xylene	
2.785	16251	16047	0.987	0.05		
2.860	30110	19376	0.644	0.09		
2.973	93835	56596	0.603	0.30		
3.017	47736	44089	0.924	0.15		
3.400	17258	14033	0.813	0.05		
3.686	9293	9370	1.008	0.03		
3.734	15145	10426	0.688	0.04		
3.826	213164	173573	0.814	0.70	5 Aroclor 1016	BA
3.930	17198	12540	0.729	0.05	5 Aroclor 1016	BA
3.993	40499	38479	0.950	0.13	5 Aroclor 1016	BA
4.048	36356	20360	0.560	0.11		
4.216	89681	77451	0.864	0.29		
4.260	142616	129849	0.910	0.46	6 Aroclor 1248	BA
4.291	144765	111518	0.770	0.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.346	13706	10517	0.767	0.04	
4.416	115074	106738	0.928	0.37	
4.450	55896	49362	0.883	0.18	
4.545	217966	197791	0.907	0.71	6 Aroclor 1248
4.616	27001	20825	0.771	0.08	
4.677	15192	9892	0.651	0.04	
4.766	43759	39229	0.896	0.14	
4.811	263352	246727	0.937	0.86	6 Aroclor 1248
4.847	131025	121062	0.924	0.43	
4.878	595531	491370	0.825	1.95	6 Aroclor 1248
4.956	33864	28278	0.835	0.11	
5.037	316915	289725	0.914	1.04	6 Aroclor 1248
5.098	121809	100106	0.822	0.40	
5.162	161155	136593	0.848	0.52	7 Aroclor 1254
5.212	214065	193043	0.902	0.70	
5.282	25469	23279	0.914	0.08	
5.312	76146	68790	0.903	0.25	
5.362	90691	74166	0.818	0.29	
5.406	139453	126147	0.905	0.45	7 Aroclor 1254
5.450	723555	702992	0.972	2.37	
5.509	303202	247777	0.817	0.99	7 Aroclor 1254
5.575	21615	14181	0.656	0.07	
5.603	56329	47184	0.838	0.18	
5.675	94940	87208	0.919	0.31	
5.710	44658	34309	0.768	0.14	
5.740	64798	51662	0.797	0.21	
5.790	446567	369998	0.829	1.46	
5.821	87955	77780	0.884	0.28	
5.898	68237	35394	0.519	0.22	
5.931	15628	15363	0.983	0.05	
5.992	87853	82961	0.944	0.28	
6.024	219564	185684	0.846	0.72	7 Aroclor 1254
6.055	225945	202617	0.897	0.74	
6.167	97451	53061	0.544	0.32	
6.225	13639	22329	1.637	0.04	
6.241	53309	37114	0.696	0.17	
6.299	392089	329708	0.841	1.28	7 Aroclor 1254
6.334	38665	34826	0.901	0.12	
6.373	21956	16907	0.770	0.07	
6.433	46986	29809	0.634	0.15	
6.509	237826	215941	0.908	0.78	
6.534	79337	72645	0.916	0.26	
6.559	58764	45509	0.774	0.19	
6.604	15100	11781	0.780	0.04	
6.660	29555	19449	0.658	0.09	
6.718	95287	75346	0.791	0.31	
6.758	90492	73068	0.807	0.29	
6.801	78512	65004	0.828	0.25	
6.840	29805	25772	0.865	0.09	
6.942	122152	106170	0.869	0.40	
7.004	188093	164922	0.877	0.61	8 Aroclor 1260
7.250	116197	98373	0.847	0.38	8 Aroclor 1260
7.283	70948	44121	0.622	0.23	
7.335	25909	19119	0.738	0.08	
7.388	73001	67947	0.931	0.24	
7.443	92583	67353	0.727	0.30	8 Aroclor 1260
7.485	51865	34517	0.666	0.17	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.528	56628	40650	0.718	0.18	
7.660	8584	9094	1.059	0.02	
7.692	33017	29296	0.887	0.10	
7.725	55149	39552	0.717	0.18	
7.761	35922	24285	0.676	0.11	
7.811	60811	31590	0.519	0.19	
7.898	59710	47224	0.791	0.19	8 Aroclor 1260
7.953	45096	33548	0.744	0.14	
8.048	74060	66326	0.896	0.24	
8.130	21900	13517	0.617	0.07	
8.274	97648	88127	0.902	0.32	
8.318	14946	15364	1.028	0.04	
8.375	107226	75907	0.708	0.35	
8.445	33727	30679	0.910	0.11	
8.479	15739	14598	0.927	0.05	
8.569	9832608	8428417	0.857	32.33	$ 12 Decachlorobiphenyl
8.641	30537	23542	0.771	0.10	
8.719	16554	14778	0.893	0.05	
9.050	9548	8051	0.843	0.03	
9.167	527059	482602	0.916	1.73	
9.216	17221	10874	0.631	0.05	
9.467	14340	11461	0.799	0.04	
9.956	27160	16255	0.598	0.08	
	30410646	27267062		100.000	

Total unknown % area = 20

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018046.D
Lab Smp Id: 40151705014 Client Smp ID: FD1-170613-01-BB-05
Inj Date : 21-MAR-2018 00:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705014,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 46
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	10.019	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	10897191	0.08838	44			
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)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.259	4.261	-0.002	142615	0.06087	30	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	217966	0.05252	26	0.00- 20.00	152.84	BA
4.811	4.812	-0.001	263352	0.12972	65	0.00- 20.00	184.66	BA
4.877	4.879	-0.002	595530	0.11822	59	0.00- 20.00	417.58	BA
5.036	5.038	-0.002	316915	0.08831	44	0.00- 20.00	222.22	BA
Average of Peak Concentrations =					45			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	161154	0.03078	15	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	139452	0.03242	16	0.00- 20.00	86.53	BA
5.509	5.510	-0.001	303202	0.03904	19	0.00- 20.00	188.14	BA
6.024	6.027	-0.003	219564	0.04509	22	0.00- 20.00	136.24	BA
6.299	6.299	0.000	392088	0.06026	30	0.00- 20.00	243.30	BA
Average of Peak Concentrations =					21			
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	188092	0.01878	9.4	0.00- 20.00	47.97	BA
7.249	7.251	-0.002	116197	0.02431	12	0.00- 20.00	29.64	BA
7.443	7.443	0.000	92582	0.03176	16	0.00- 20.00	23.61	BA
7.898	7.901	-0.003	59709	0.02263	11	0.00- 20.00	15.23	BA
Average of Peak Concentrations =					12			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9832608	0.08975	45			

QC Flag Legend

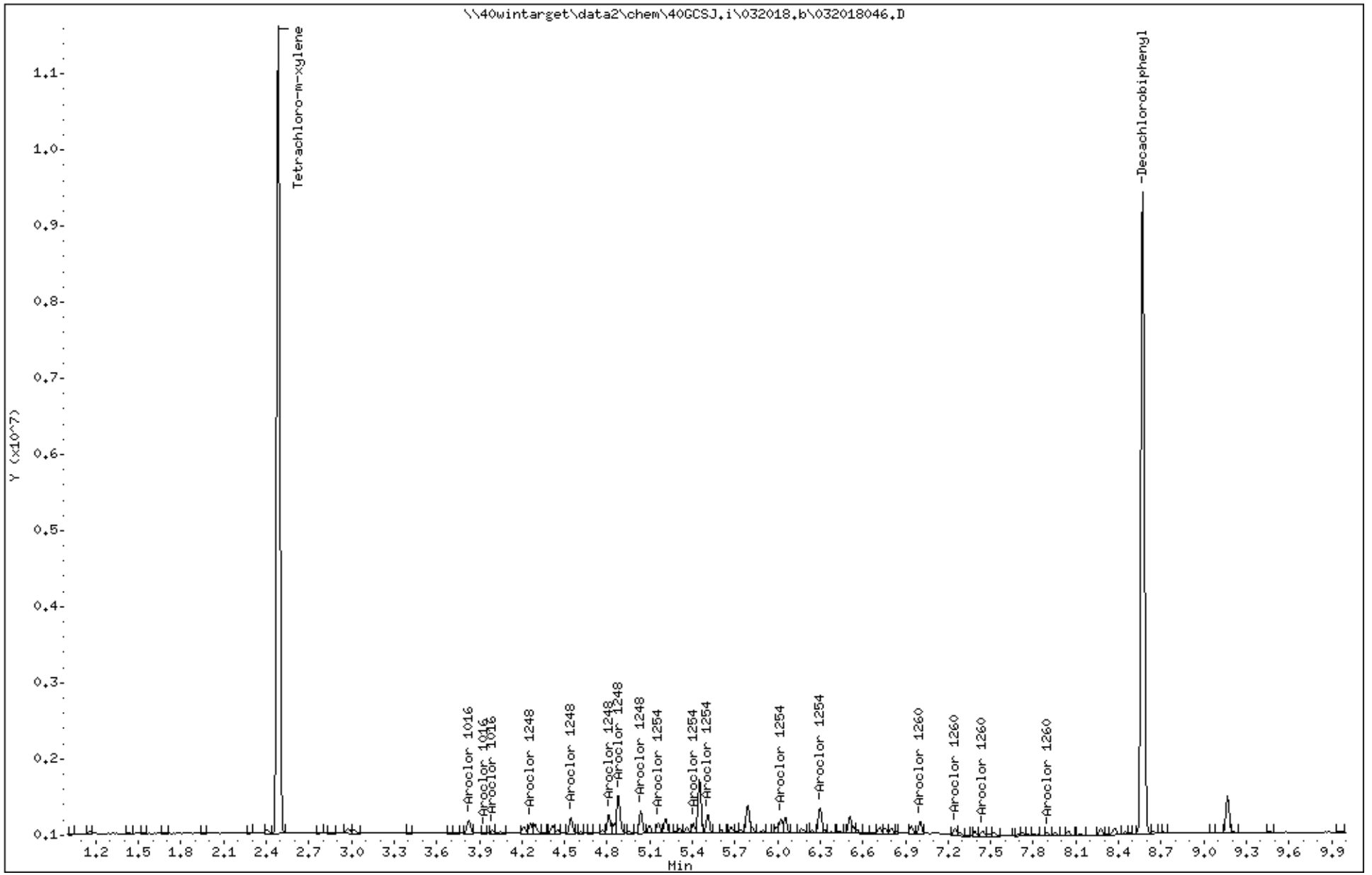
M - Compound response manually integrated.

Review Codes Legend

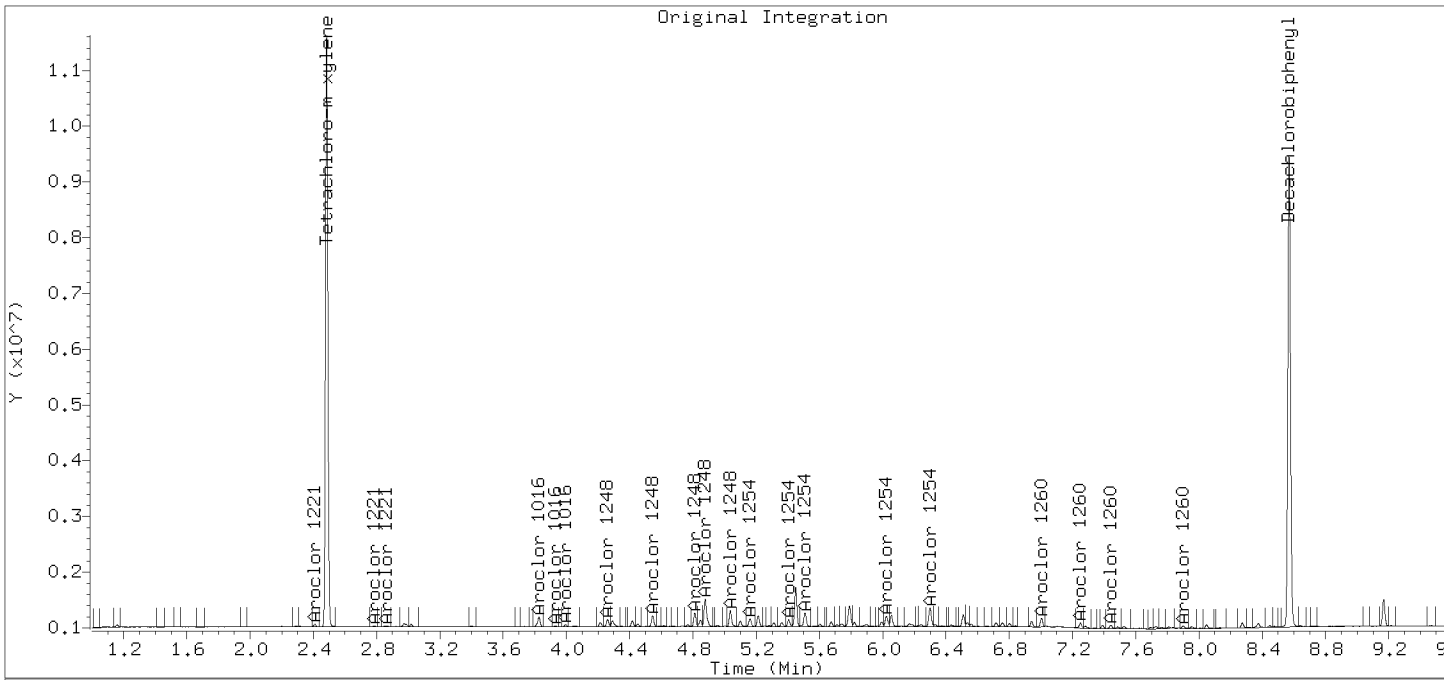
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

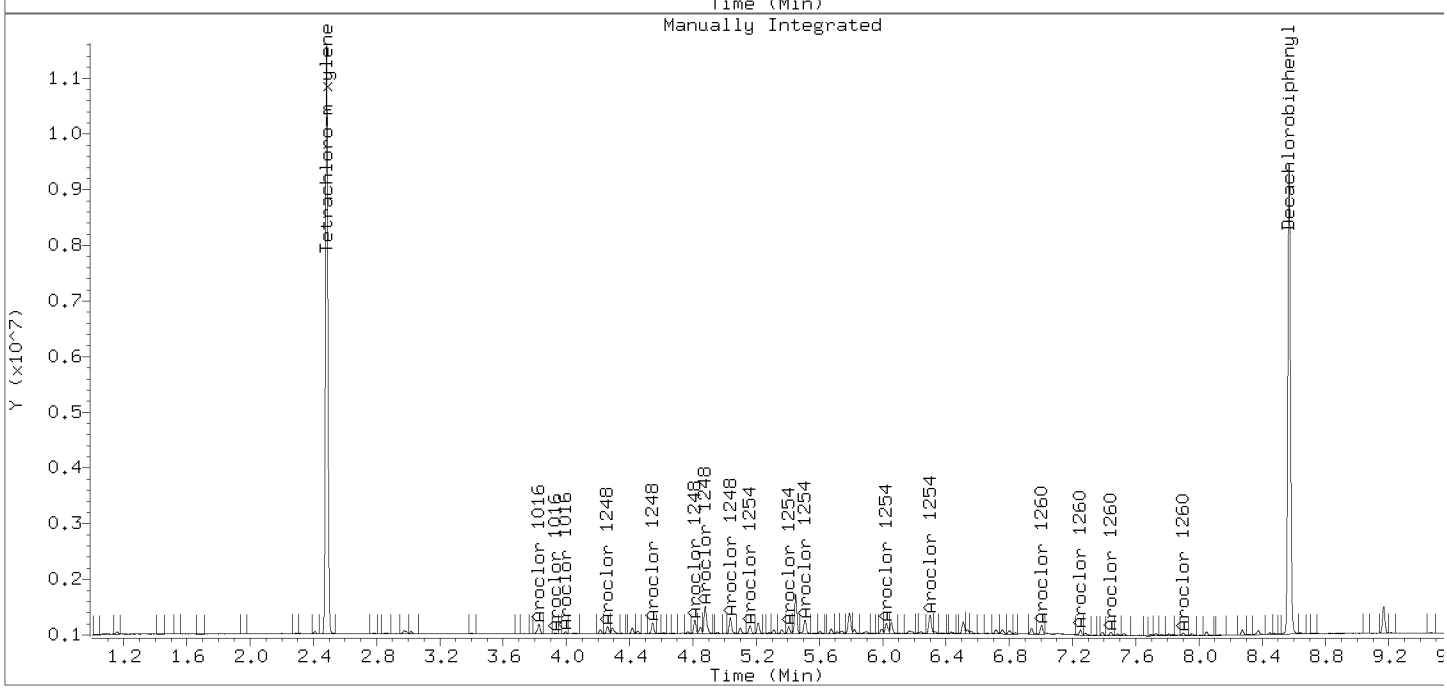
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018046.D
Date : 21-MAR-2018 00:24
Client ID: FD1-170613-01-BB-05
Sample Info: 40151705014,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018046.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 00:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
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	138588	142615	BA
Aroclor 1248	138588	142615	BA
Aroclor 1248	138588	142615	BA
Aroclor 1248	138588	142615	BA
Aroclor 1248	138588	142615	BA
Aroclor 1254	156556	161154	BA
Aroclor 1254	156556	161154	BA
Aroclor 1254	156556	161154	BA
Aroclor 1254	156556	161154	BA
Aroclor 1254	156556	161154	BA
Aroclor 1260	386855	0	BA
Aroclor 1260	386855	0	BA
Aroclor 1260	386855	0	BA
Aroclor 1260	386855	0	BA
Aroclor 1260	386855	0	BA
Tetrachloro-m-xylene	10897191	10897191	
Decachlorobiphenyl	9832608	9832608	

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SAMPLE NO.

FD1-170613-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705015

Date Analyzed: 03/21/2018 00:40

Lab File ID: 032018.B\032018047.D

Initial wt/vol: 10.0181 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)	48.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	21.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	69.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018047.D
Lab Smp Id: 40151705015 Client Smp ID: FD1-170613-01-BB-04
Inj Date : 21-MAR-2018 00:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705015,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 47
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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	11899	9281	0.780	0.03		
1.157	15829	14346	0.906	0.05		
1.184	20117	14017	0.697	0.06		
2.004	12467	10064	0.807	0.04		
2.197	10299	10009	0.972	0.03		
2.290	20358	16053	0.789	0.06		
2.409	24799	21804	0.879	0.08		
2.484	10931915	10635727	0.973	36.89	$ 2 Tetrachloro-m-xylene	
2.784	16072	15696	0.977	0.05		
2.862	31861	23413	0.735	0.10		
2.917	12454	9136	0.734	0.04		
2.975	13163	13035	0.990	0.04		
3.020	19547	18016	0.922	0.06		
3.397	13554	12065	0.890	0.04		
3.825	165193	135573	0.821	0.55		
3.993	30548	28095	0.920	0.10		
4.053	28539	17575	0.616	0.09		
4.215	60778	51727	0.851	0.20		
4.242	24986	28330	1.134	0.08		
4.261	121114	117306	0.969	0.40	6 Aroclor 1248	CO
4.292	162864	124235	0.763	0.54		
4.345	18944	11407	0.602	0.06		
4.416	109129	97361	0.892	0.36		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.450	53672	40571	0.756	0.17	
4.545	217215	194762	0.897	0.72	6 Aroclor 1248
4.612	34195	21475	0.628	0.11	
4.767	61725	53114	0.861	0.20	
4.813	315393	297126	0.942	1.05	6 Aroclor 1248
4.847	74587	67985	0.911	0.24	
4.878	720793	617697	0.857	2.40	6 Aroclor 1248
4.956	42433	31260	0.737	0.14	
5.036	280401	259696	0.926	0.93	6 Aroclor 1248
5.059	16620	23734	1.428	0.05	
5.099	130332	100370	0.770	0.43	
5.161	145429	113589	0.781	0.48	7 Aroclor 1254
5.213	196980	169393	0.860	0.65	
5.282	35267	28995	0.822	0.11	
5.310	84078	71771	0.854	0.28	
5.361	123074	80603	0.655	0.41	
5.405	152430	136970	0.899	0.50	7 Aroclor 1254
5.449	565346	509884	0.902	1.88	
5.509	340004	291716	0.858	1.13	7 Aroclor 1254
5.602	78318	59289	0.757	0.26	
5.675	66457	52096	0.784	0.22	
5.710	45664	34600	0.758	0.15	
5.741	86669	62681	0.723	0.28	
5.791	521026	395227	0.759	1.73	
5.887	72312	35335	0.489	0.24	
5.931	18700	16473	0.881	0.06	
5.994	76609	71994	0.940	0.25	
6.024	278149	240718	0.865	0.92	7 Aroclor 1254
6.054	157141	134144	0.854	0.52	
6.121	21277	11672	0.549	0.07	
6.169	85813	50687	0.591	0.28	
6.241	63003	37576	0.596	0.21	
6.299	345491	288533	0.835	1.15	7 Aroclor 1254
6.332	38519	34785	0.903	0.12	
6.373	20075	16393	0.817	0.06	
6.432	42038	26983	0.642	0.14	
6.510	179758	160902	0.895	0.59	
6.535	105908	76388	0.721	0.35	
6.660	20352	16383	0.805	0.06	
6.716	82261	69215	0.841	0.27	
6.758	74282	63109	0.850	0.24	
6.801	68412	54000	0.789	0.22	
6.839	28535	22898	0.802	0.09	
6.942	63395	52362	0.826	0.21	
7.004	163456	154305	0.944	0.54	8 Aroclor 1260
7.033	17725	18760	1.058	0.05	
7.085	24651	15043	0.610	0.08	
7.120	37473	16314	0.435	0.12	
7.250	93932	78589	0.837	0.31	8 Aroclor 1260
7.282	55094	36829	0.668	0.18	
7.329	15444	13334	0.863	0.05	
7.388	53481	52418	0.980	0.17	
7.441	70822	56702	0.801	0.23	8 Aroclor 1260
7.485	35376	23980	0.678	0.11	
7.525	36115	27551	0.763	0.12	
7.577	12329	10222	0.829	0.04	
7.626	7720	8051	1.043	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.661	10703	10152	0.949	0.03	
7.692	20115	23596	1.173	0.06	
7.728	52260	39034	0.747	0.17	
7.765	28854	20773	0.720	0.09	
7.834	14795	15067	1.018	0.04	
7.899	52656	41200	0.782	0.17	8 Aroclor 1260
7.954	42854	29282	0.683	0.14	
8.048	33257	27798	0.836	0.11	
8.132	9639	9590	0.995	0.03	
8.273	102805	87623	0.852	0.34	
8.314	18700	15534	0.831	0.06	
8.376	109952	68370	0.622	0.36	
8.449	42395	31856	0.751	0.14	
8.480	27954	18267	0.653	0.09	
8.570	10105666	8852174	0.876	33.68	$ 12 Decachlorobiphenyl
8.639	32567	23708	0.728	0.10	
8.720	13881	10330	0.744	0.04	
8.939	25779	20801	0.807	0.08	
9.168	436412	387314	0.887	1.45	
9.466	38437	26315	0.685	0.12	
9.961	50354	32400	0.643	0.16	
	30000219	26932707		100.000	

Total unknown % area = 18

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018047.D
Lab Smp Id: 40151705015 Client Smp ID: FD1-170613-01-BB-04
Inj Date : 21-MAR-2018 00:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705015,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 47
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	10.018	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	10931914	0.08866	44			
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).								

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)   (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
4.260    4.261   -0.001          121113 0.05169       26   0.00-  20.00   100.00(M)      CO
4.545    4.546   -0.001          217215 0.05234       26   0.00-  20.00   179.35         CO
4.812    4.812    0.000          315392 0.15536       78   0.00-  20.00   260.41         CO
4.877    4.879   -0.002          720792 0.14309       71   0.00-  20.00   595.14         CO
5.036    5.038   -0.002          280401 0.07814       39   0.00-  20.00   231.52         CO
               Average of Peak Concentrations =       48
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002          145429 0.02778       14   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003          152430 0.03544       18   0.00-  20.00   104.81         BA
5.508    5.510   -0.002          340004 0.04378       22   0.00-  20.00   233.79         BA
6.023    6.027   -0.004          278148 0.05712       28   0.00-  20.00   191.26         BA
6.299    6.299    0.000          345490 0.05309       26   0.00-  20.00   237.57         BA
               Average of Peak Concentrations =       22
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5

Compound Not Detected.                                                                     CO
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                           CAS #: 2051-24-3
8.570    8.571   -0.001        10105665 0.09224       46
-------------------------------------------------------------------------------
```

QC Flag Legend

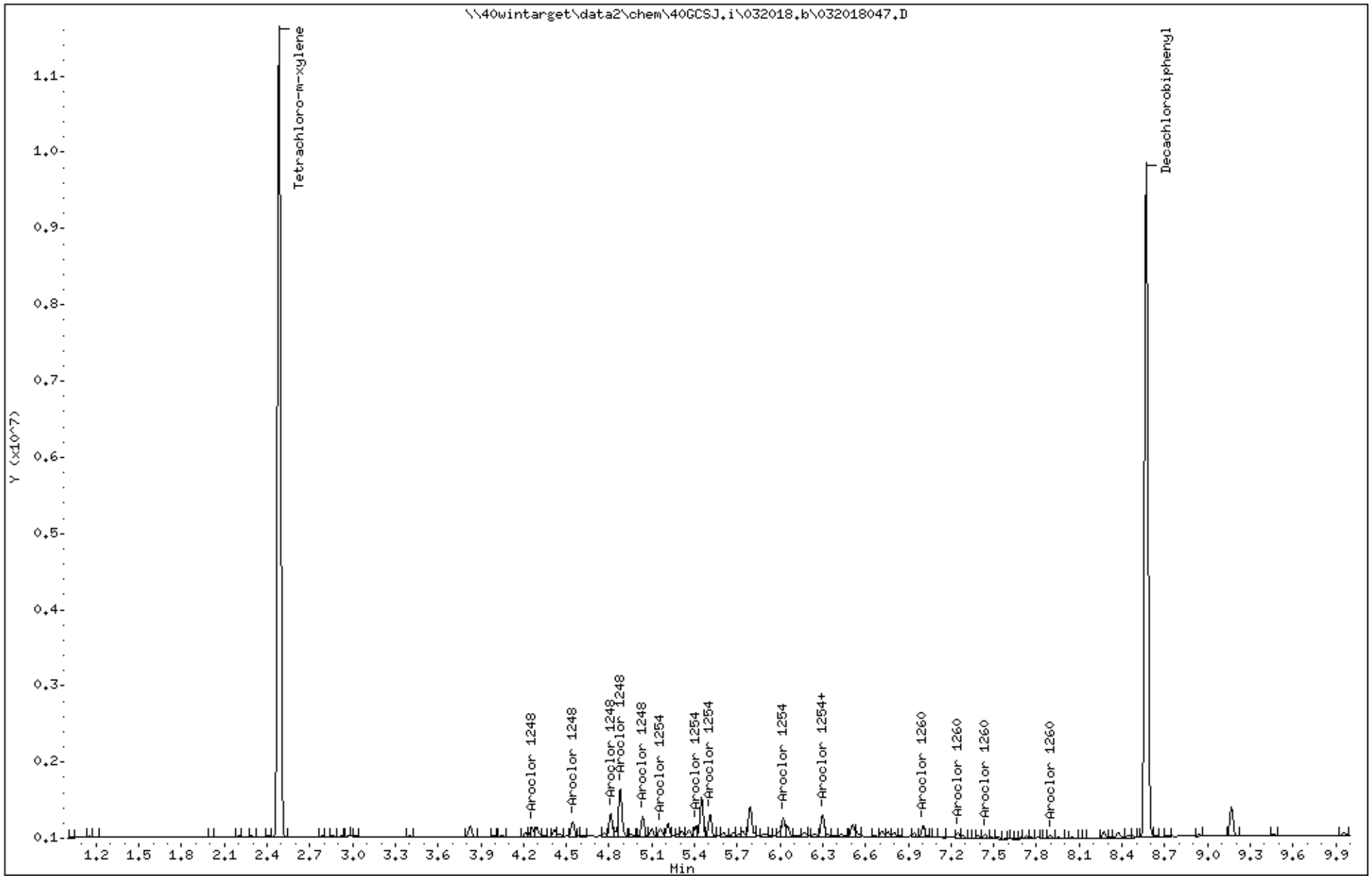
M - Compound response manually integrated.

Review Codes Legend

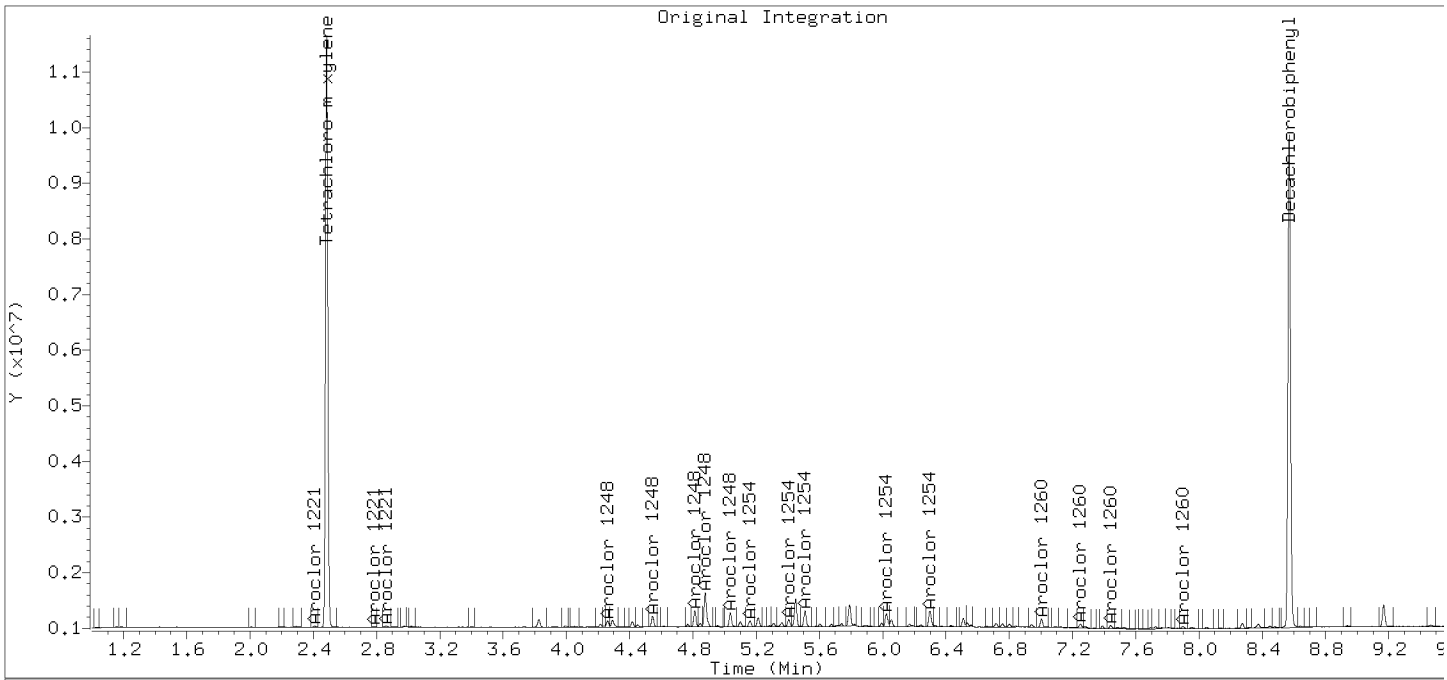
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

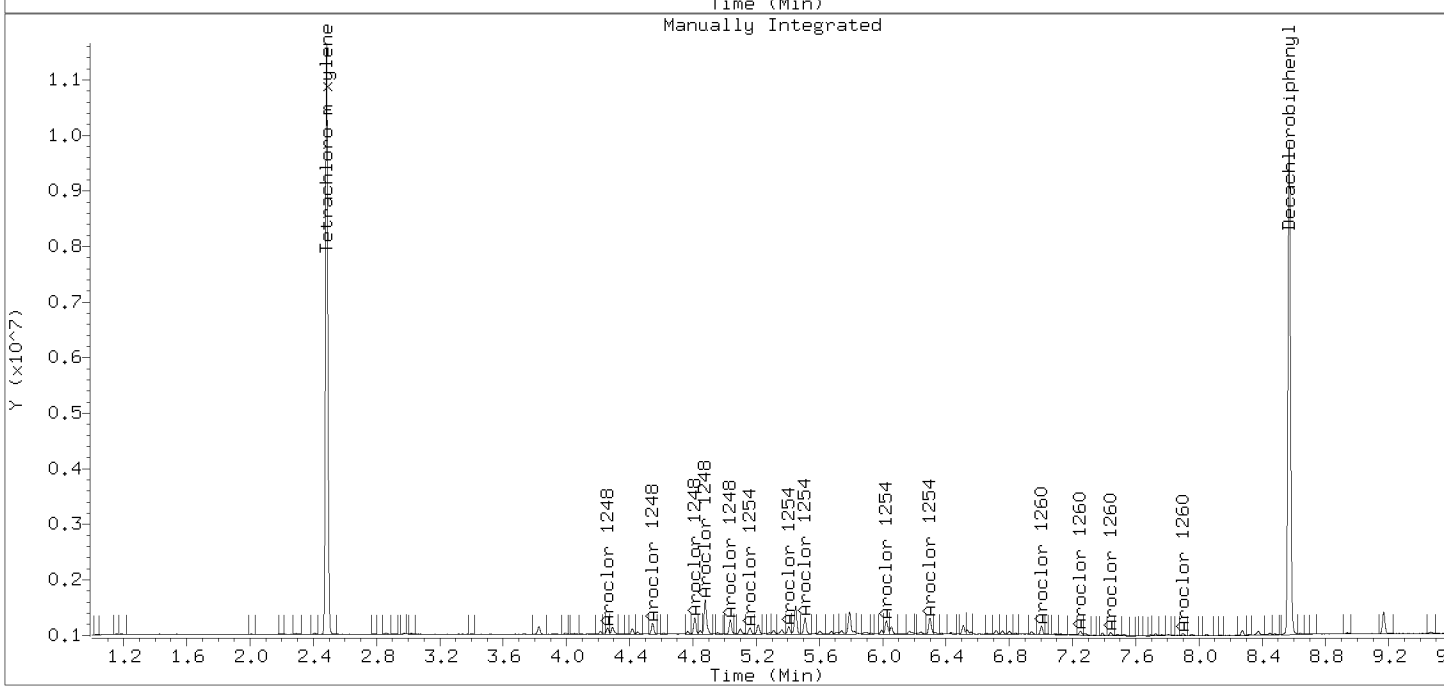
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018047.D
Date : 21-MAR-2018 00:40
Client ID: FD1-170613-01-BB-04
Sample Info: 40151705015,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018047.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 00:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705015





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	113119	121113	CO
Aroclor 1248	113119	121113	CO
Aroclor 1248	113119	121113	CO
Aroclor 1248	113119	121113	CO
Aroclor 1248	113119	121113	CO
Aroclor 1254	119887	145429	BA
Aroclor 1254	119887	145429	BA
Aroclor 1254	119887	145429	BA
Aroclor 1254	119887	145429	BA
Aroclor 1254	119887	145429	BA
Aroclor 1260	338142	0	CO
Aroclor 1260	338142	0	CO
Aroclor 1260	338142	0	CO
Aroclor 1260	338142	0	CO
Aroclor 1260	338142	0	CO
Tetrachloro-m-xylene	10931914	10931914	
Decachlorobiphenyl	10105665	10105665	

==========

SAMPLE NO.

FD1-170613-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705016

Date Analyzed: 03/21/2018 00:55

Lab File ID: 032018.B\032018048.D

Initial wt/vol: 10.0368 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)	18.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	11.5	J
1336-36-3	PCB, Total	29.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018048.D
Lab Smp Id: 40151705016 Client Smp ID: FD1-170613-01-BB-03
Inj Date : 21-MAR-2018 00:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705016,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 48
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	10.037	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	16781	12485	0.744	0.06		
1.072	9738	8618	0.885	0.03		
1.158	10862	10116	0.931	0.04		
1.425	9380	7789	0.830	0.03		
1.531	13160	10104	0.768	0.04		
2.198	12014	9114	0.759	0.04		
2.295	24775	22456	0.906	0.09		
2.315	13933	13586	0.975	0.05		
2.411	27743	23761	0.856	0.10		
2.484	10472036	10336493	0.987	39.85	$ 2 Tetrachloro-m-xylene	
2.787	18547	16776	0.905	0.06		
2.858	31376	21137	0.674	0.11		
2.913	14878	7903	0.531	0.05		
2.973	30954	20014	0.647	0.11		
3.021	19340	17683	0.914	0.07		
3.399	22304	18482	0.829	0.08		
3.687	10594	9424	0.890	0.03		
3.827	72829	57906	0.795	0.27	5 Aroclor 1016	BA
3.927	14481	7235	0.500	0.05	5 Aroclor 1016	BA
3.994	21351	14515	0.680	0.08	5 Aroclor 1016	BA
4.051	26455	18922	0.715	0.09		
4.215	42531	37983	0.893	0.16		
4.238	26767	25380	0.948	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	51208	46630	0.911	0.19	6 Aroclor 1248
4.292	64541	46016	0.713	0.24	
4.416	49506	40936	0.827	0.18	
4.451	24586	20282	0.825	0.09	
4.545	89302	71720	0.803	0.33	6 Aroclor 1248
4.767	44266	28759	0.650	0.16	
4.811	114582	97856	0.854	0.43	6 Aroclor 1248
4.846	37626	34325	0.912	0.14	
4.878	252895	189806	0.751	0.95	6 Aroclor 1248
4.954	27708	16785	0.606	0.10	
5.036	125662	113131	0.900	0.47	6 Aroclor 1248
5.055	19870	19796	0.996	0.07	
5.100	80110	52860	0.660	0.30	
5.162	90891	66736	0.734	0.34	7 Aroclor 1254
5.212	101371	75986	0.750	0.38	
5.283	25000	18843	0.754	0.09	
5.313	53387	42454	0.795	0.20	
5.348	21366	28235	1.321	0.08	
5.360	49971	39291	0.786	0.18	
5.405	79766	64228	0.805	0.30	7 Aroclor 1254
5.449	407868	385997	0.946	1.53	
5.508	171306	140101	0.818	0.64	7 Aroclor 1254
5.601	46989	27922	0.594	0.17	
5.673	74860	64761	0.865	0.28	
5.708	34122	23790	0.697	0.12	
5.739	43162	33224	0.770	0.16	
5.789	271274	220394	0.812	1.02	
5.821	66462	45890	0.690	0.25	
5.883	39351	20866	0.530	0.14	
5.992	72426	63087	0.871	0.27	
6.022	127922	111146	0.869	0.48	7 Aroclor 1254
6.054	132196	110531	0.836	0.49	
6.119	21486	12722	0.592	0.08	
6.168	56564	44022	0.778	0.21	
6.226	43014	26776	0.622	0.16	
6.299	283076	234549	0.829	1.06	7 Aroclor 1254
6.332	29373	27692	0.943	0.11	
6.374	18039	14168	0.785	0.06	
6.430	37260	26339	0.707	0.14	
6.508	240197	210038	0.874	0.90	
6.534	55505	56053	1.010	0.20	
6.560	41247	32646	0.791	0.15	
6.606	11158	9284	0.832	0.04	
6.658	23150	17961	0.776	0.08	
6.716	72679	57187	0.787	0.27	
6.757	67296	56731	0.843	0.25	
6.801	60300	47433	0.787	0.22	
6.842	24034	18953	0.789	0.09	
6.941	52751	41820	0.793	0.19	
7.003	145319	129341	0.890	0.54	8 Aroclor 1260
7.035	33079	25569	0.773	0.12	
7.088	18484	16260	0.880	0.06	
7.121	22180	13084	0.590	0.08	
7.248	85613	73693	0.861	0.32	8 Aroclor 1260
7.282	48171	33877	0.703	0.18	
7.332	16654	13873	0.833	0.06	
7.388	72731	62532	0.860	0.27	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.442	73090	58809	0.805	0.27	8 Aroclor 1260
7.486	26603	20209	0.760	0.10	
7.521	22962	15650	0.682	0.08	
7.579	9890	9892	1.000	0.03	
7.690	25599	27619	1.079	0.09	
7.727	69756	40493	0.580	0.26	
7.764	28212	19761	0.700	0.10	
7.801	33678	19829	0.589	0.12	
7.836	16798	16797	1.000	0.06	
7.899	67698	51809	0.765	0.25	8 Aroclor 1260
7.956	53866	32403	0.602	0.20	
8.049	26340	21718	0.825	0.09	
8.274	101121	90409	0.894	0.38	
8.318	13104	12192	0.930	0.04	
8.374	70277	49170	0.700	0.26	
8.447	32679	28770	0.880	0.12	
8.479	11193	12477	1.115	0.04	
8.570	9877348	9134718	0.925	37.17	$ 12 Decachlorobiphenyl
8.641	31018	18040	0.582	0.11	
8.718	12755	9947	0.780	0.04	
9.167	520367	440590	0.847	1.95	
9.229	10658	6952	0.652	0.04	
	26568753	24531123		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018048.D
Lab Smp Id: 40151705016 Client Smp ID: FD1-170613-01-BB-03
Inj Date : 21-MAR-2018 00:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705016,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 48
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	10.037	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	10472036	0.08493	42			
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			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	51208	0.02186	11	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	89301	0.02152	11	0.00- 20.00	174.39	CO
4.811	4.812	-0.001	114581	0.05644	28	0.00- 20.00	223.76	CO
4.877	4.879	-0.002	252895	0.05020	25	0.00- 20.00	493.86	CO
5.036	5.038	-0.002	125662	0.03502	17	0.00- 20.00	245.40	CO
Average of Peak Concentrations =					18			
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	283075	0.03194	16	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	145318	0.01451	7.2	0.00- 20.00	51.34	BA
7.248	7.251	-0.003	85612	0.01791	8.9	0.00- 20.00	30.24	BA
7.442	7.443	-0.001	73089	0.02507	12	0.00- 20.00	25.82	BA
7.899	7.901	-0.002	67698	0.02566	13	0.00- 20.00	23.92	BA
Average of Peak Concentrations =					11			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9877348	0.09015	45			

QC Flag Legend

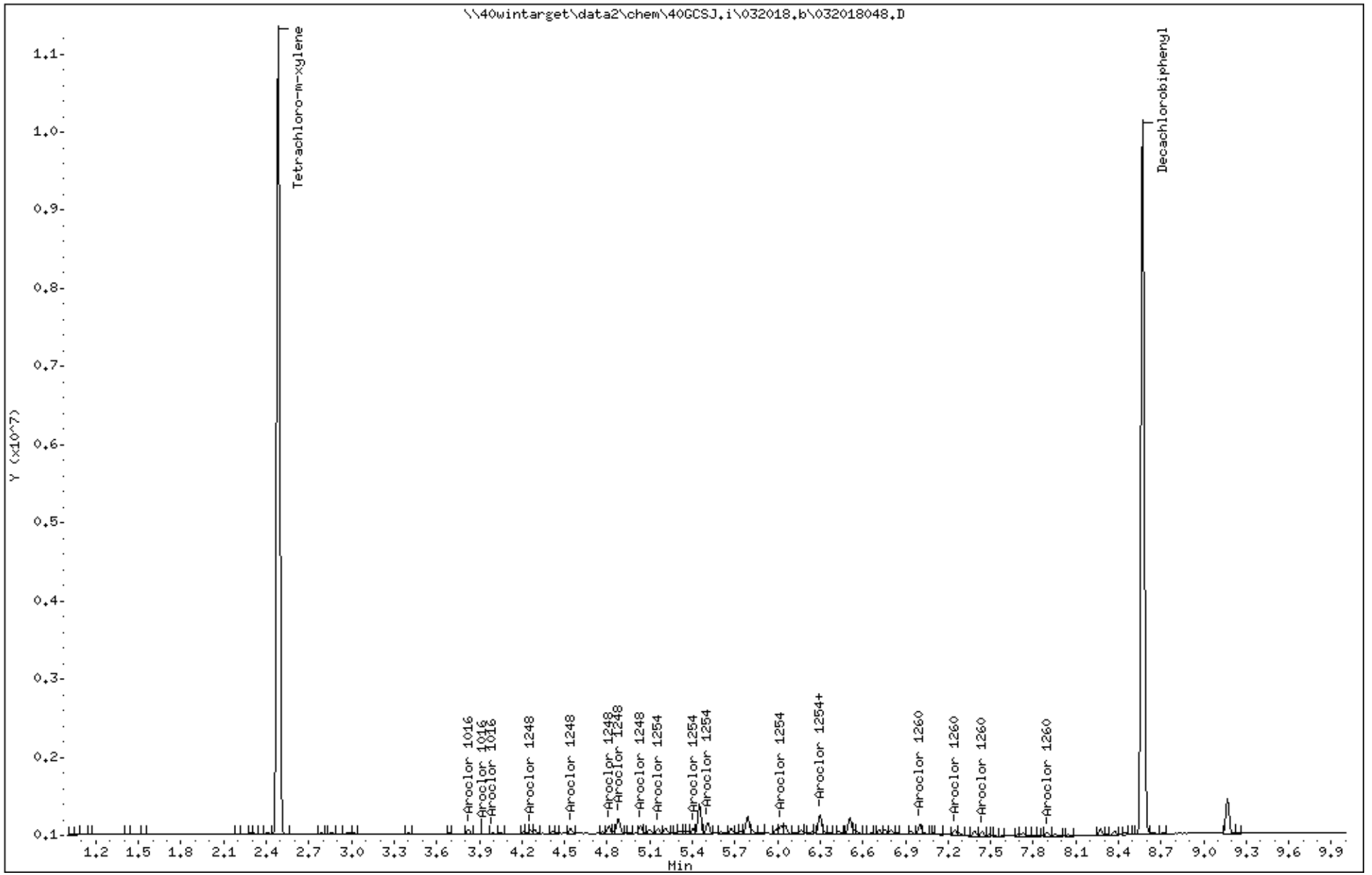
M - Compound response manually integrated.

Review Codes Legend

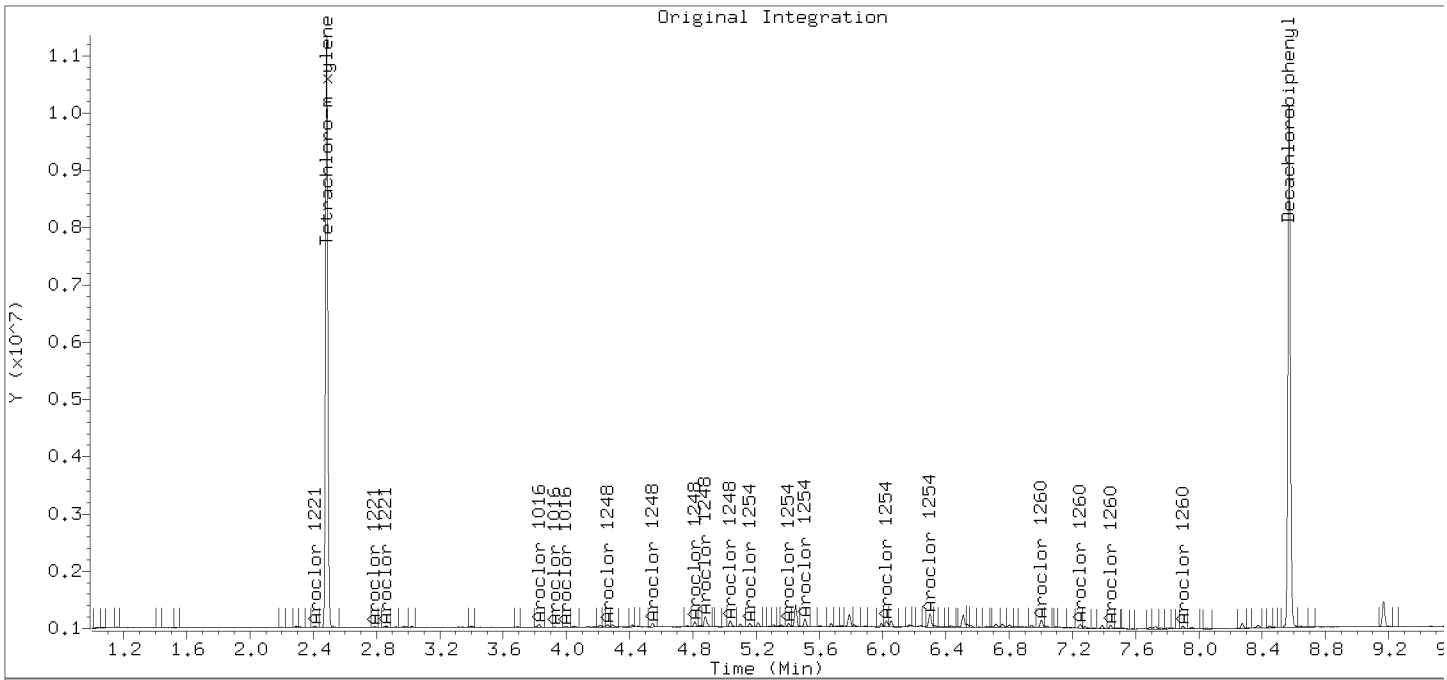
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

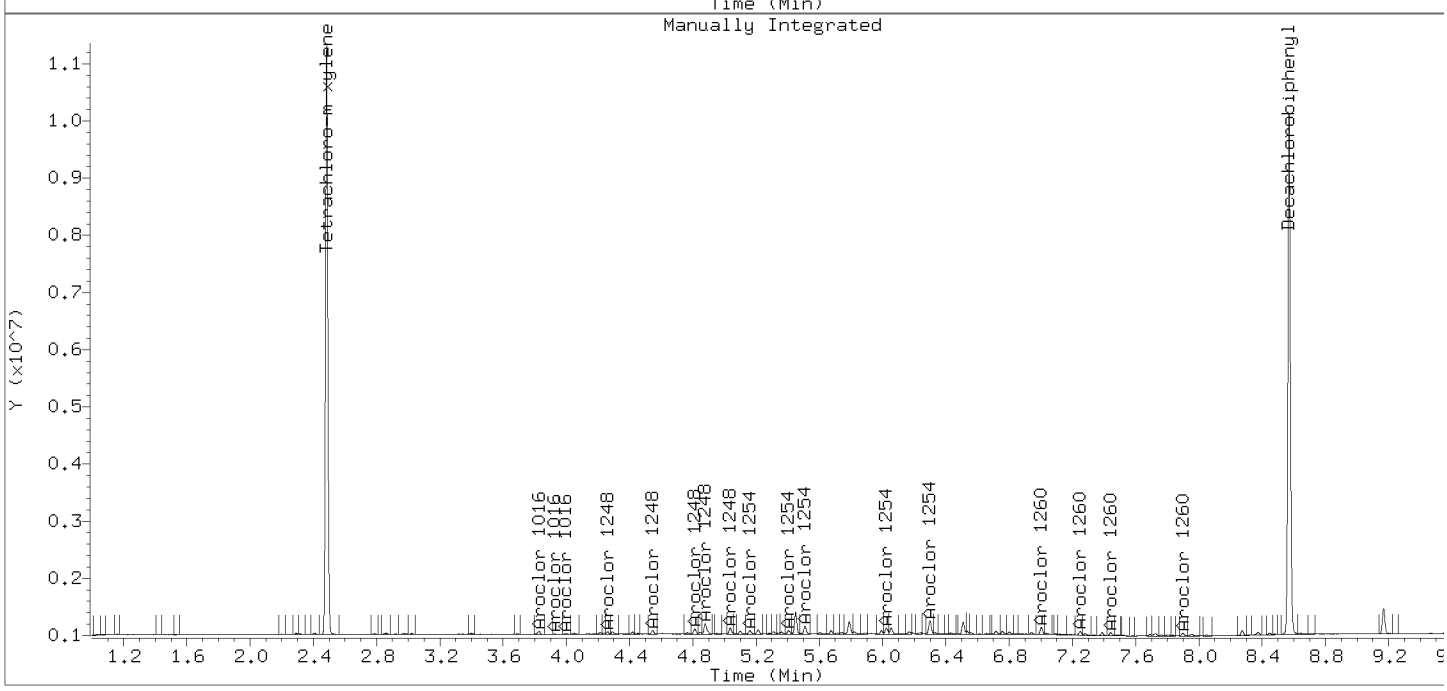
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018048.D
Date : 21-MAR-2018 00:55
Client ID: FD1-170613-01-BB-03
Sample Info: 40151705016,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018048.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 00:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
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	43208	51208	CO
Aroclor 1248	43208	51208	CO
Aroclor 1248	43208	51208	CO
Aroclor 1248	43208	51208	CO
Aroclor 1248	43208	51208	CO
Aroclor 1254	69425	0	BA
Aroclor 1254	69425	0	BA
Aroclor 1254	69425	0	BA
Aroclor 1254	69425	0	BA
Aroclor 1254	69425	0	BA
Aroclor 1260	278839	283075	BA
Aroclor 1260	278839	283075	BA
Aroclor 1260	278839	283075	BA
Aroclor 1260	278839	283075	BA
Aroclor 1260	278839	283075	BA
Tetrachloro-m-xylene	10472036	10472036	
Decachlorobiphenyl	9877348	9877348	

==========

SAMPLE NO.

FD1-170613-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705017

Date Analyzed: 03/21/2018 01:11

Lab File ID: 032018.B\032018049.D

Initial wt/vol: 10.0037 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)	15.2	J
1336-36-3	PCB, Total	15.2	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018049.D
Lab Smp Id: 40151705017 Client Smp ID: FD1-170613-01-BB-02
Inj Date : 21-MAR-2018 01:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705017,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 49
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	10.004	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	15216	10599	0.697	0.05		
1.159	10353	11229	1.085	0.03		
1.430	9543	9197	0.964	0.03		
1.539	9795	8642	0.882	0.03		
2.201	12404	8503	0.685	0.04		
2.293	17777	14344	0.807	0.06		
2.411	37265	32197	0.864	0.13		
2.484	11049820	10807739	0.978	40.49	$ 2 Tetrachloro-m-xylene	
2.785	18848	17006	0.902	0.06		
2.859	31030	20463	0.659	0.11		
2.915	11620	8692	0.748	0.04		
2.975	10894	12945	1.188	0.03		
3.020	17829	16976	0.952	0.06		
3.400	15527	13142	0.846	0.05		
3.826	51161	41368	0.809	0.18		
4.049	24059	17693	0.735	0.08		
4.213	30930	25746	0.832	0.11		
4.259	30025	28143	0.937	0.10	6 Aroclor 1248	CO
4.291	36554	26978	0.738	0.13		
4.415	34897	26735	0.766	0.12		
4.452	24510	14010	0.572	0.08		
4.545	50036	36756	0.735	0.18	6 Aroclor 1248	CO
4.766	25792	17591	0.682	0.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.814	61343	49396	0.805	0.22	6 Aroclor 1248
4.847	28820	24260	0.842	0.10	
4.877	144827	90551	0.625	0.52	6 Aroclor 1248
4.957	19022	12421	0.653	0.06	
5.036	56463	51859	0.918	0.20	6 Aroclor 1248
5.056	19130	16598	0.868	0.06	
5.100	72847	57176	0.785	0.26	
5.162	77685	59134	0.761	0.28	7 Aroclor 1254
5.213	82457	66998	0.813	0.29	
5.284	15289	14576	0.953	0.05	
5.312	53616	46407	0.866	0.19	
5.362	51095	29344	0.574	0.18	
5.405	62057	52194	0.841	0.22	7 Aroclor 1254
5.449	573761	536930	0.936	2.07	
5.509	144581	132589	0.917	0.52	7 Aroclor 1254
5.578	15145	11945	0.789	0.05	
5.601	29308	19624	0.670	0.10	
5.675	114001	108607	0.953	0.41	
5.707	34734	31472	0.906	0.12	
5.741	42960	33119	0.771	0.15	
5.787	298180	247805	0.831	1.07	
5.820	69721	53869	0.773	0.25	
5.884	40594	21051	0.519	0.14	
5.931	16348	15502	0.948	0.05	
5.993	96624	90486	0.936	0.34	
6.025	121463	105895	0.872	0.43	7 Aroclor 1254
6.053	167739	146687	0.874	0.60	
6.122	13844	11868	0.857	0.05	
6.168	100056	59866	0.598	0.36	
6.241	61202	34929	0.571	0.22	
6.299	400080	337081	0.843	1.44	8 Aroclor 1260
6.332	40458	37326	0.923	0.14	
6.372	19112	18545	0.970	0.06	
6.431	58802	37799	0.643	0.21	
6.509	366934	321504	0.876	1.32	
6.535	71119	72594	1.021	0.25	
6.559	62303	47652	0.765	0.22	
6.657	32161	22732	0.707	0.11	
6.716	108715	86705	0.798	0.39	
6.758	97611	81488	0.835	0.35	
6.800	78548	64111	0.816	0.28	
6.837	45393	25076	0.552	0.16	
6.942	75074	60299	0.803	0.27	
7.003	194239	181522	0.935	0.70	8 Aroclor 1260
7.033	39127	34344	0.878	0.14	
7.094	23567	18162	0.771	0.08	
7.122	19231	15468	0.804	0.06	
7.250	129193	112450	0.870	0.46	8 Aroclor 1260
7.280	64837	41507	0.640	0.23	
7.338	18068	14497	0.802	0.06	
7.387	94868	84686	0.893	0.34	
7.442	85368	74320	0.871	0.30	8 Aroclor 1260
7.485	24943	18169	0.728	0.09	
7.524	35793	20699	0.578	0.12	
7.583	9816	11367	1.158	0.03	
7.620	3804	3889	1.022	0.01	
7.633	6329	7179	1.134	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.661	7124	7193	1.010	0.02	
7.692	29488	31393	1.065	0.10	
7.724	62717	38488	0.614	0.22	
7.764	27731	21885	0.789	0.10	
7.801	28496	17535	0.615	0.10	
7.833	13625	13917	1.021	0.04	
7.898	81311	66202	0.814	0.29	8 Aroclor 1260
7.953	55535	42189	0.760	0.20	
8.049	32770	24863	0.759	0.11	
8.185	9494	8690	0.915	0.03	
8.273	99343	87816	0.884	0.35	
8.315	16341	14981	0.917	0.05	
8.376	89950	67245	0.748	0.32	
8.447	46503	38618	0.830	0.16	
8.480	19153	17417	0.909	0.06	
8.570	9753828	8353441	0.856	35.28	$ 12 Decachlorobiphenyl
8.641	30599	24028	0.785	0.11	
8.718	27482	17267	0.628	0.09	
9.168	724441	667072	0.921	2.62	
9.463	13185	10435	0.791	0.04	
9.950	9591	8066	0.841	0.03	
	27644994	24889764		100.000	

Total unknown % area = 18

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018049.D
Lab Smp Id: 40151705017 Client Smp ID: FD1-170613-01-BB-02
Inj Date : 21-MAR-2018 01:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705017,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 49
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	10.004	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	11049820	0.08962	45			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	400079	0.04514	22	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	194239	0.01940	9.7	0.00- 20.00	48.55	BA
7.249	7.251	-0.002	129192	0.02703	14	0.00- 20.00	32.29	BA
7.441	7.443	-0.002	85367	0.02928	15	0.00- 20.00	21.34	BA
7.897	7.901	-0.004	81310	0.03081	15	0.00- 20.00	20.32	BA
Average of Peak Concentrations =					15			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9753827	0.08903	44			

QC Flag Legend

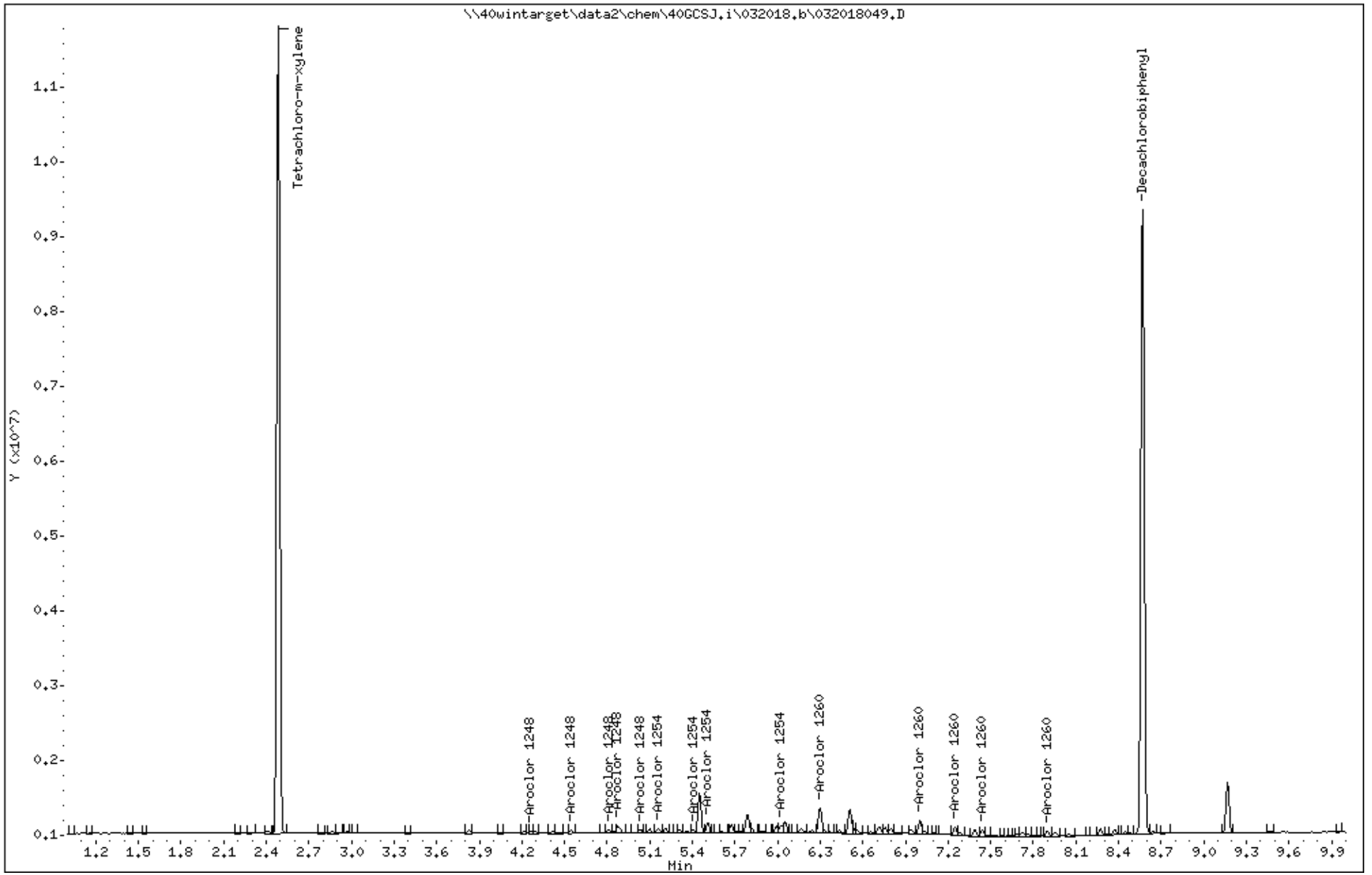
M - Compound response manually integrated.

Review Codes Legend

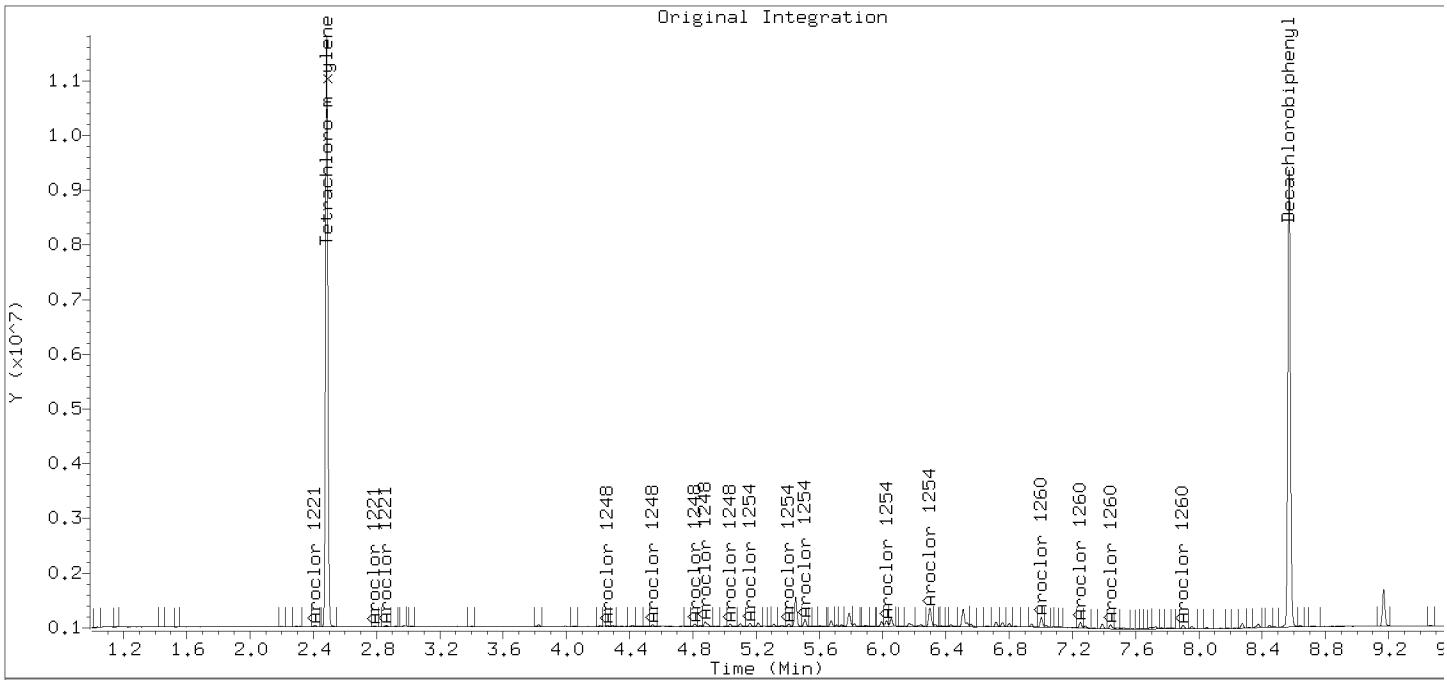
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

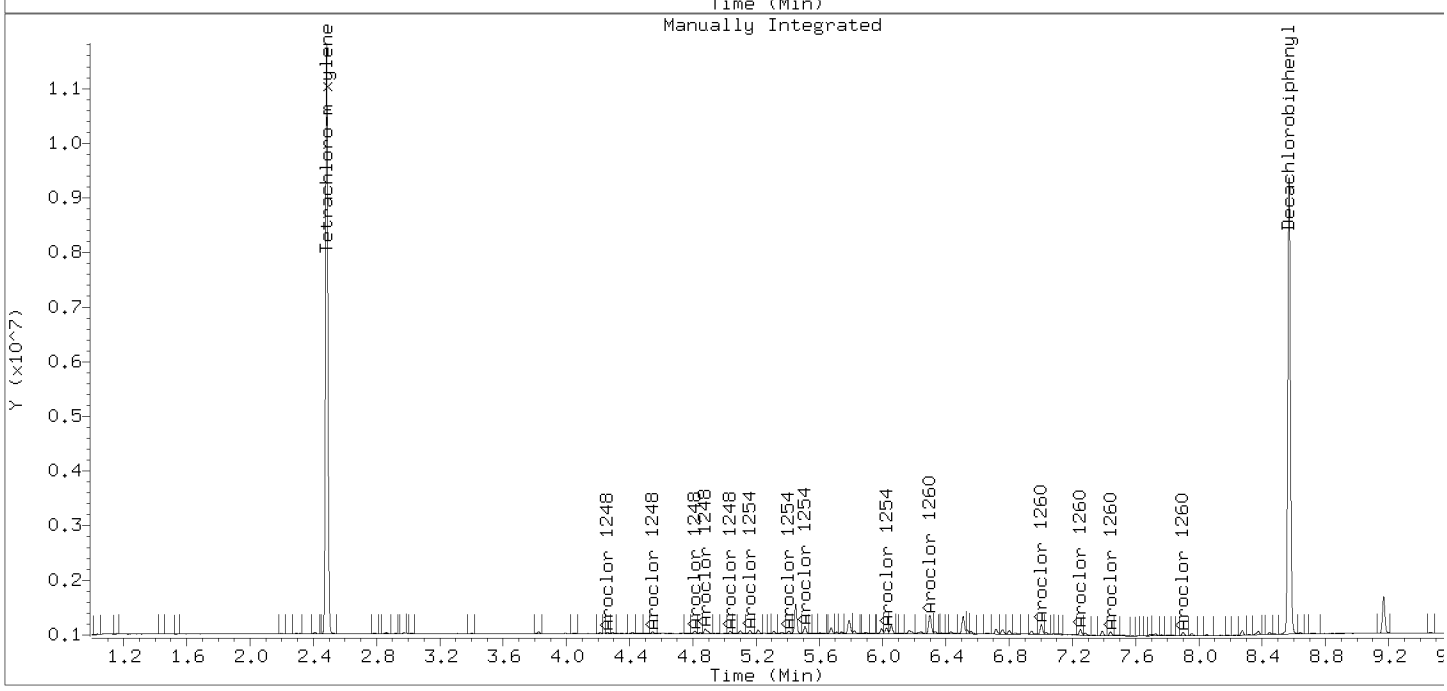
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018049.D
Date : 21-MAR-2018 01:11
Client ID: FD1-170613-01-BB-02
Sample Info: 40151705017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018049.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 01:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705017





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	20202	0	CO
Aroclor 1248	20202	0	CO
Aroclor 1248	20202	0	CO
Aroclor 1248	20202	0	CO
Aroclor 1248	20202	0	CO
Aroclor 1254	64433	0	BA
Aroclor 1254	64433	0	BA
Aroclor 1254	64433	0	BA
Aroclor 1254	64433	0	BA
Aroclor 1254	64433	0	BA
Aroclor 1260	397101	400079	BA
Aroclor 1260	397101	400079	BA
Aroclor 1260	397101	400079	BA
Aroclor 1260	397101	400079	BA
Aroclor 1260	397101	400079	BA
Tetrachloro-m-xylene	11049820	11049820	
Decachlorobiphenyl	9753827	9753827	

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SAMPLE NO.

FD1-170613-01-BB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 40151705018

Date Analyzed: 03/21/2018 01:43

Lab File ID: 032018.B\032018051.D

Initial wt/vol: 9.9851 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)	11.9	J
1336-36-3	PCB, Total	11.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018051.D
Lab Smp Id: 40151705018 Client Smp ID: FD1-170613-01-BB-01
Inj Date : 21-MAR-2018 01:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705018,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 51
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	9.985	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.160	14663	10220	0.697	0.05		
1.427	12101	11394	0.942	0.04		
1.538	12761	9620	0.754	0.04		
2.290	21746	17559	0.807	0.08		
2.316	11841	11984	1.012	0.04		
2.406	19049	17275	0.907	0.07	1 Aroclor 1221	
2.484	11029595	10734674	0.973	42.38	$ 2 Tetrachloro-m-xylene	
2.787	19878	18072	0.909	0.07	1 Aroclor 1221	
2.860	37404	25842	0.691	0.14	1 Aroclor 1221	
2.919	14786	11687	0.790	0.05		
3.021	13093	10937	0.835	0.04		
3.401	21717	19102	0.880	0.08		
3.693	19722	17663	0.896	0.07		
3.823	31468	22319	0.709	0.11		
4.047	16301	13617	0.835	0.06		
4.214	17538	17877	1.019	0.06		
4.238	23020	22590	0.981	0.08		
4.262	22647	20456	0.903	0.08	6 Aroclor 1248	CO
4.292	35315	24652	0.698	0.13		
4.416	24863	21143	0.850	0.09		
4.544	48925	30560	0.625	0.18	6 Aroclor 1248	CO
4.766	41844	23184	0.554	0.15		
4.811	55467	43333	0.781	0.21	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.843	31723	23687	0.747	0.12	
4.877	104800	74632	0.712	0.39	6 Aroclor 1248
5.036	45102	44468	0.986	0.17	6 Aroclor 1248
5.048	9846	16424	1.668	0.03	
5.100	54196	34199	0.631	0.20	
5.159	48463	34464	0.711	0.18	7 Aroclor 1254
5.212	64565	48366	0.749	0.24	
5.283	20614	16364	0.794	0.07	
5.310	55641	45075	0.810	0.21	
5.346	41956	22724	0.542	0.15	
5.386	26711	22924	0.858	0.10	
5.404	43604	37531	0.861	0.16	7 Aroclor 1254
5.451	466197	441391	0.947	1.77	
5.509	102335	75226	0.735	0.38	7 Aroclor 1254
5.600	26446	17667	0.668	0.10	
5.674	60488	46335	0.766	0.23	
5.707	31828	21631	0.680	0.12	
5.739	35486	26656	0.751	0.13	
5.788	194021	159923	0.824	0.73	
5.822	61606	37140	0.603	0.23	
5.892	38255	20265	0.530	0.14	
5.993	64811	58643	0.905	0.24	
6.023	87048	73303	0.842	0.33	7 Aroclor 1254
6.055	72665	62298	0.857	0.27	
6.120	18039	12605	0.699	0.06	
6.167	46508	40369	0.868	0.17	
6.228	41387	27531	0.665	0.15	
6.299	241171	204565	0.848	0.91	7 Aroclor 1254
6.333	30072	25686	0.854	0.11	
6.371	14192	11953	0.842	0.05	
6.432	36563	25437	0.696	0.13	
6.509	171235	152999	0.894	0.65	
6.534	53311	51134	0.959	0.20	
6.560	38524	30936	0.803	0.14	
6.607	17073	13806	0.809	0.06	
6.659	23051	17318	0.751	0.08	
6.717	70910	59837	0.844	0.26	
6.758	67627	59827	0.885	0.25	
6.800	58610	49007	0.836	0.22	
6.841	33026	19583	0.593	0.12	
6.883	21086	11871	0.563	0.08	
6.941	61326	52466	0.856	0.23	
7.003	180269	163045	0.904	0.68	8 Aroclor 1260
7.032	26889	21235	0.790	0.10	
7.249	99091	83798	0.846	0.37	8 Aroclor 1260
7.280	48939	34215	0.699	0.18	
7.334	16571	12964	0.782	0.06	
7.388	79437	64815	0.816	0.30	
7.441	85504	69553	0.813	0.32	8 Aroclor 1260
7.486	25151	15574	0.619	0.09	
7.575	11026	11812	1.071	0.04	
7.691	27986	26928	0.962	0.10	
7.725	54163	42078	0.777	0.20	
7.763	27156	18767	0.691	0.10	
7.807	34423	21520	0.625	0.13	
7.897	61774	48412	0.784	0.23	8 Aroclor 1260
7.952	41428	30399	0.734	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.048	43831	38562	0.880	0.16	
8.274	104366	93992	0.901	0.39	
8.374	54011	34658	0.642	0.20	
8.450	20538	16363	0.797	0.07	
8.570	10472601	9180770	0.877	39.82	$ 12 Decachlorobiphenyl
8.639	19190	14004	0.730	0.07	
8.721	14225	11409	0.802	0.05	
9.167	339784	304584	0.896	1.29	
9.458	12703	7027	0.553	0.04	
	26298922	23850510		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018051.D
Lab Smp Id: 40151705018 Client Smp ID: FD1-170613-01-BB-01
Inj Date : 21-MAR-2018 01:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151705018,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 51
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	9.985	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

2.484	2.484	0.000	11029594	0.08946	45			

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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			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	241171	0.02721	14	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	180269	0.01800	9.0	0.00- 20.00	74.75	BA
7.249	7.251	-0.002	99091	0.02073	10	0.00- 20.00	41.09	BA
7.441	7.443	-0.002	85504	0.02933	15	0.00- 20.00	35.45	BA
7.897	7.901	-0.004	61774	0.02341	12	0.00- 20.00	25.61	BA
Average of Peak Concentrations =					12			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10472601	0.09559	48			

QC Flag Legend

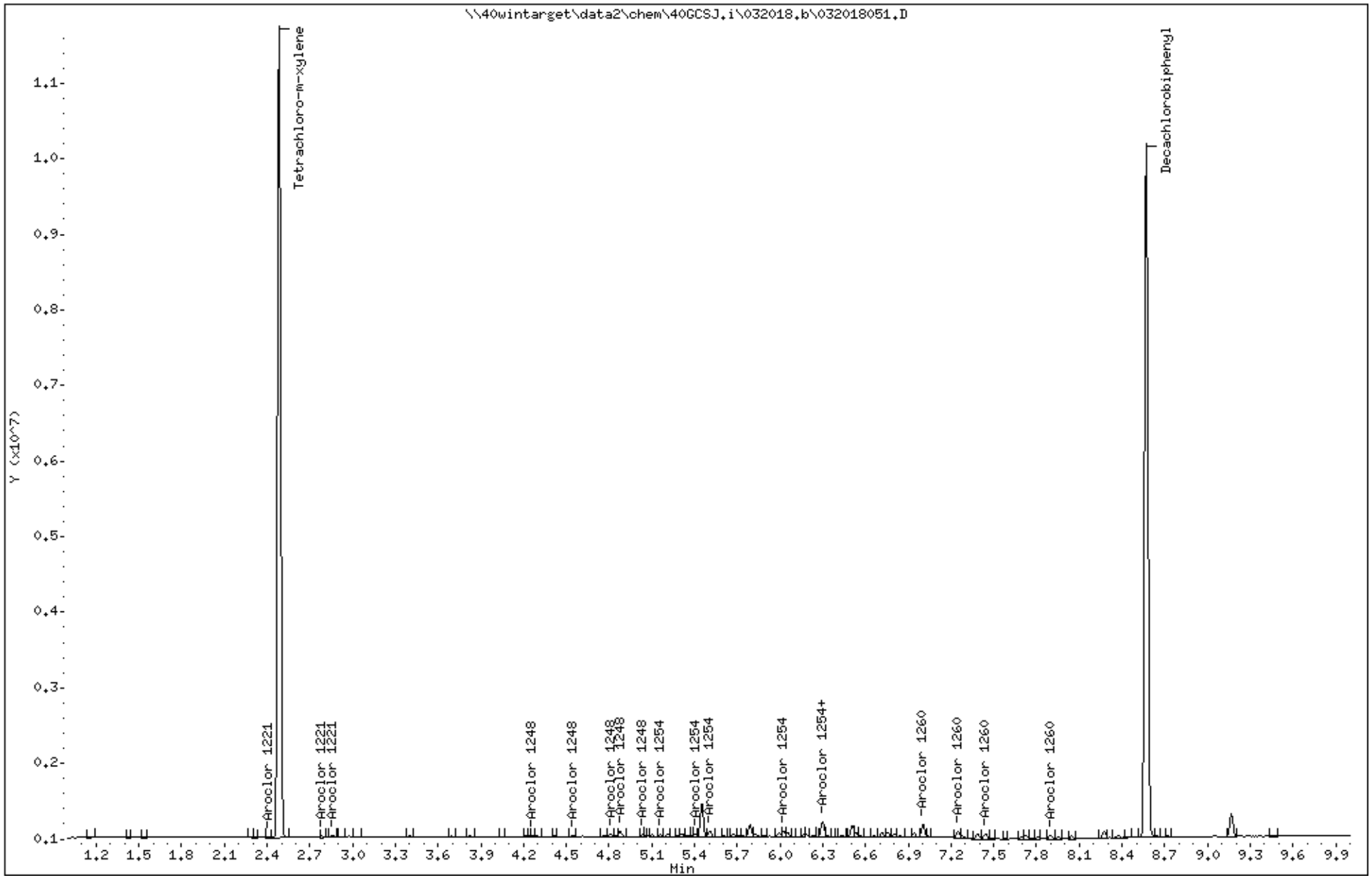
M - Compound response manually integrated.

Review Codes Legend

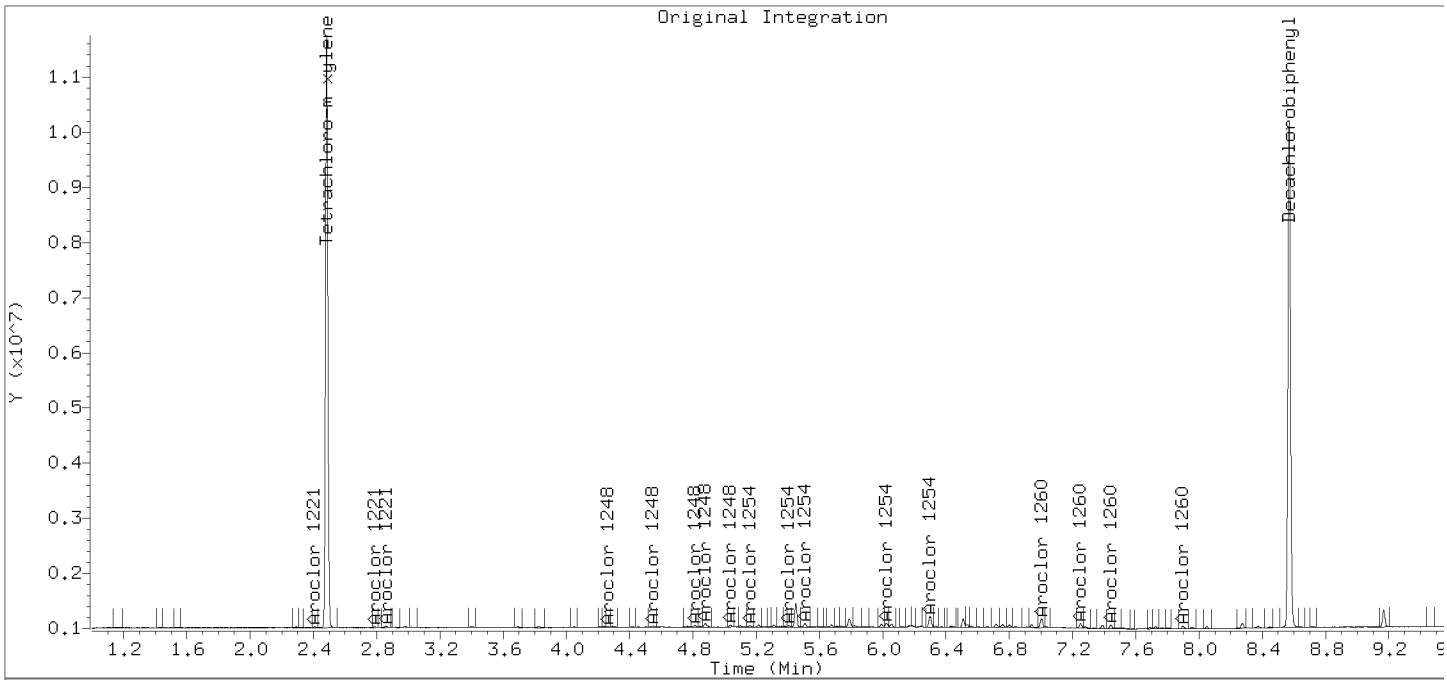
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

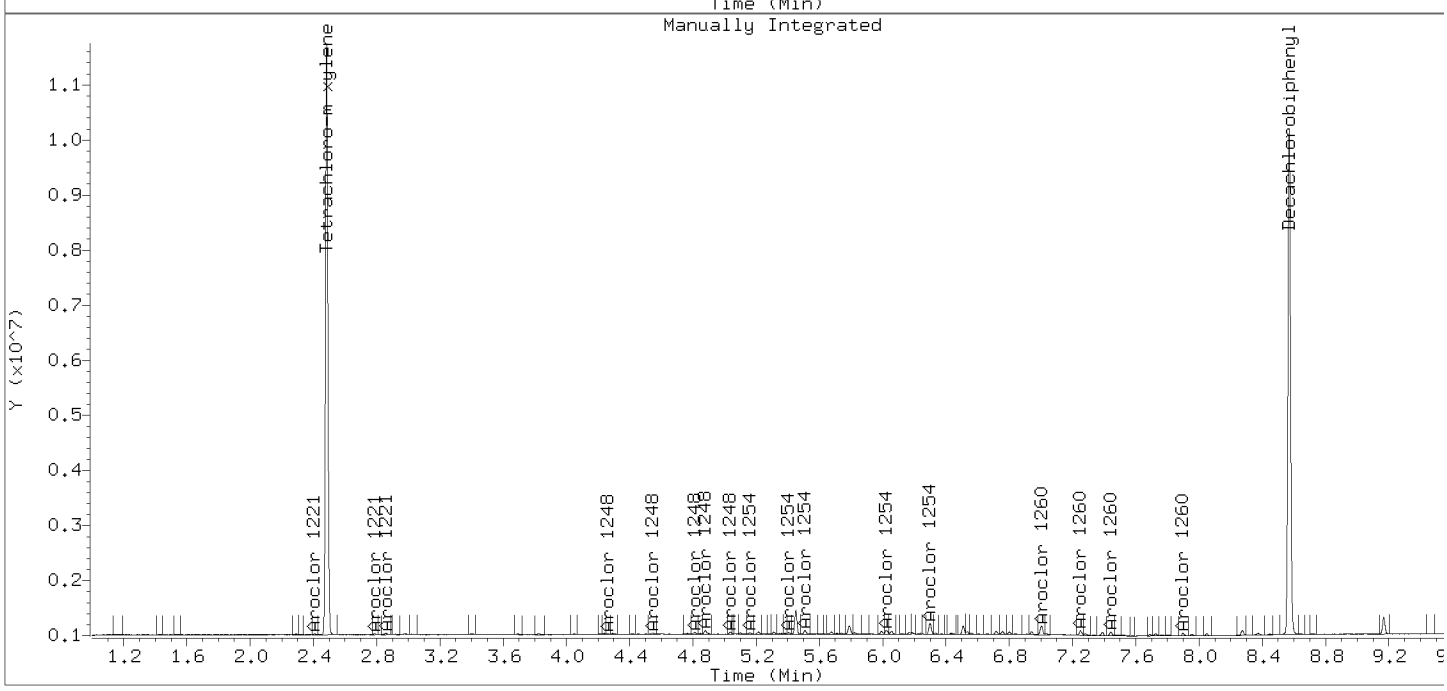
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018051.D
Date : 21-MAR-2018 01:43
Client ID: FD1-170613-01-BB-01
Sample Info: 40151705018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018051.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 01:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151705018





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	15580	0	CO
Aroclor 1248	15580	0	CO
Aroclor 1248	15580	0	CO
Aroclor 1248	15580	0	CO
Aroclor 1248	15580	0	CO
Aroclor 1254	32654	0	BA
Aroclor 1254	32654	0	BA
Aroclor 1254	32654	0	BA
Aroclor 1254	32654	0	BA
Aroclor 1254	32654	0	BA
Aroclor 1260	237273	241171	BA
Aroclor 1260	237273	241171	BA
Aroclor 1260	237273	241171	BA
Aroclor 1260	237273	241171	BA
Aroclor 1260	237273	241171	BA
Tetrachloro-m-xylene	11029594	11029594	
Decachlorobiphenyl	10472601	10472601	

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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.: 40151705

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.: 40151705

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.: 40151705

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.: 40151705

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.: 40151705

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.: 40151705

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.: 40151705

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 11:50

Client ID: 1232-CAL3S

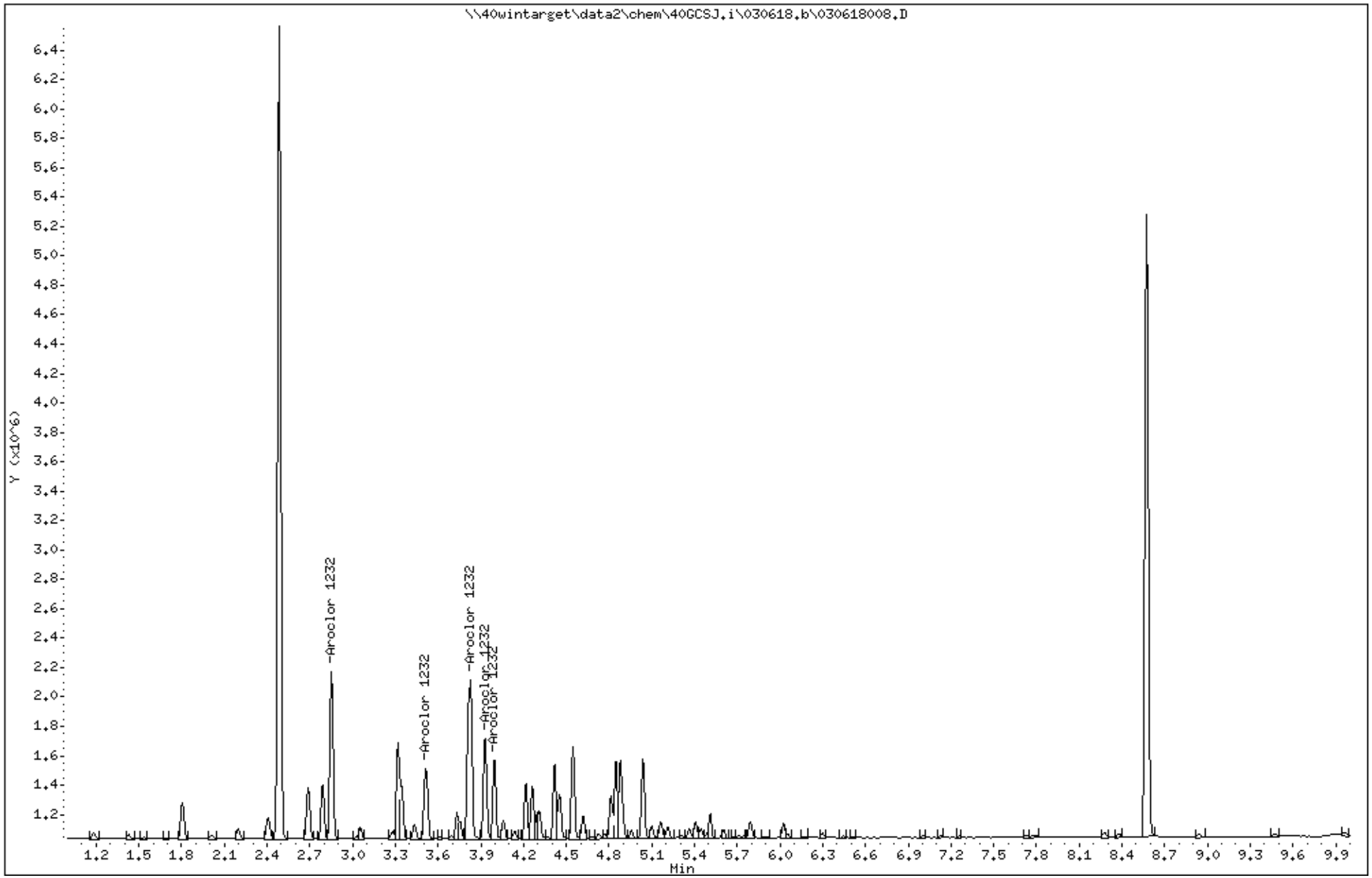
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

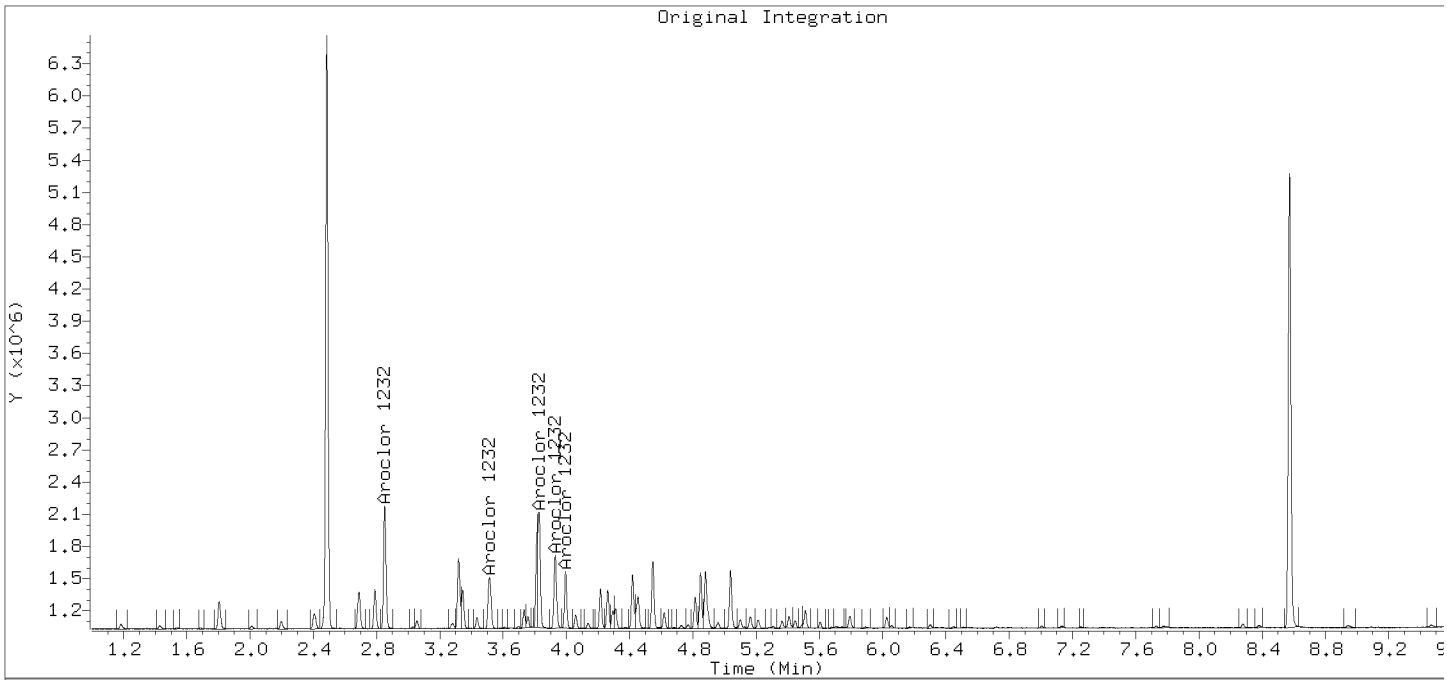
Operator: BLM

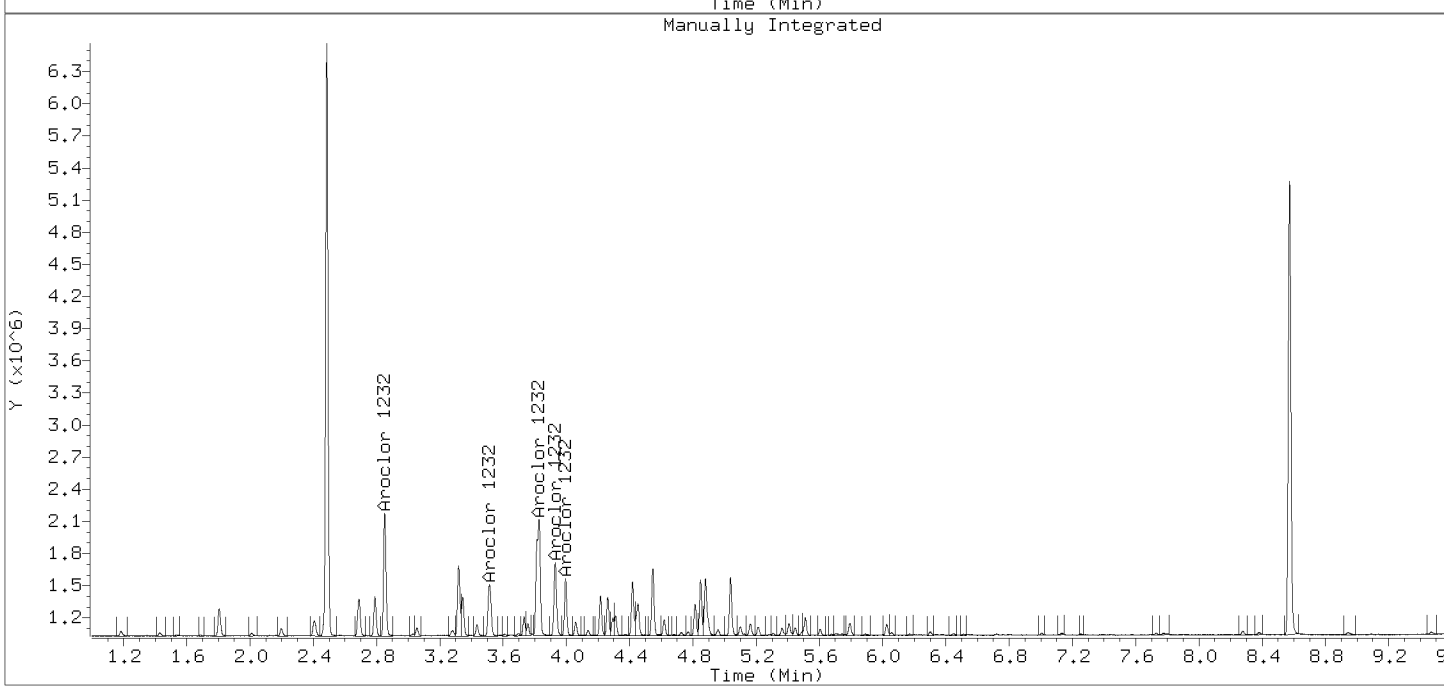
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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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

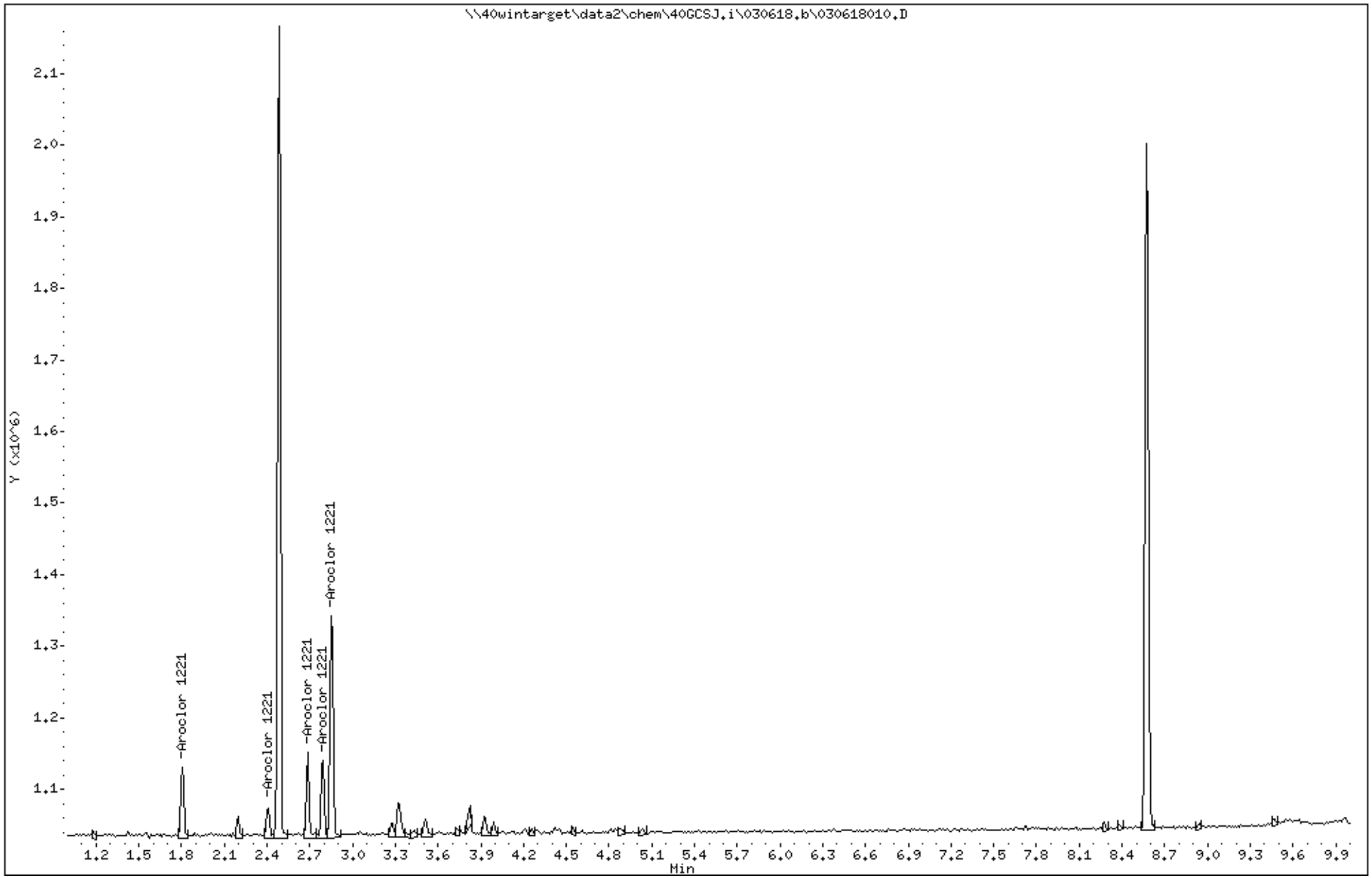
M - Compound response manually integrated.

Review Codes Legend

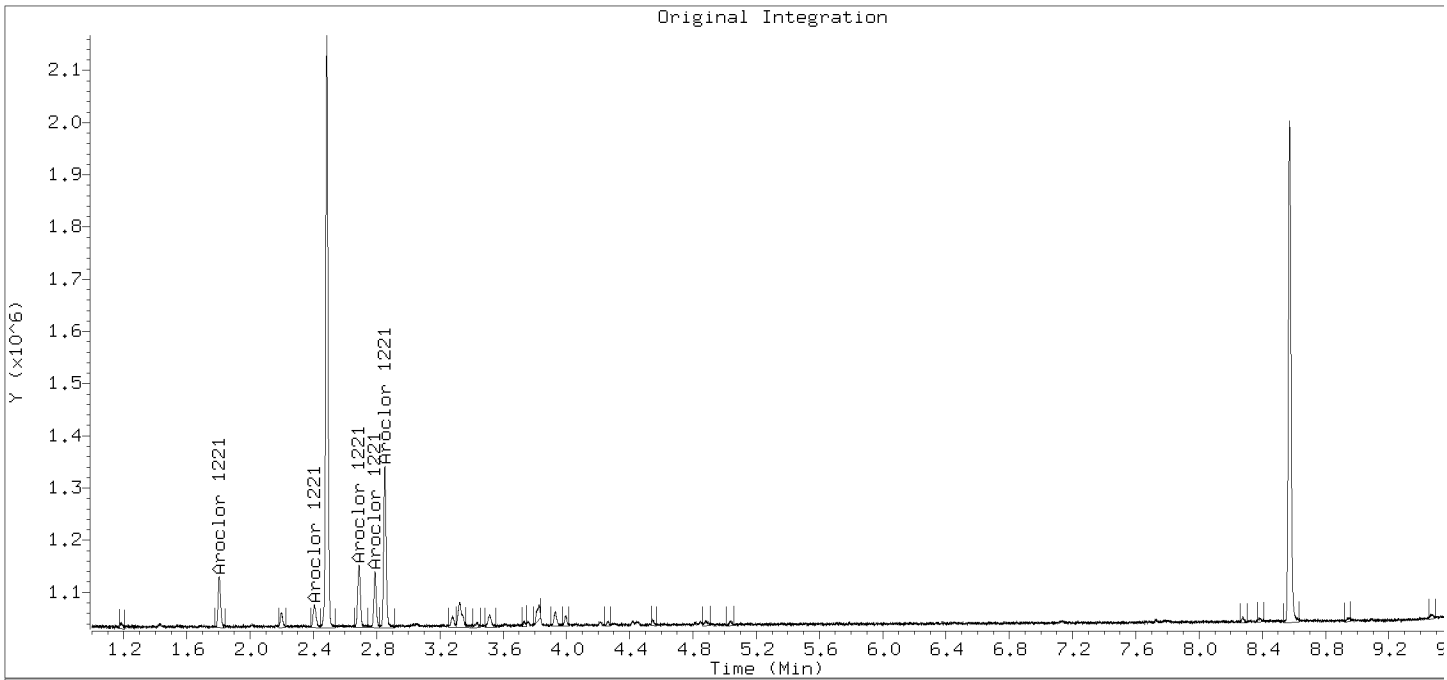
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

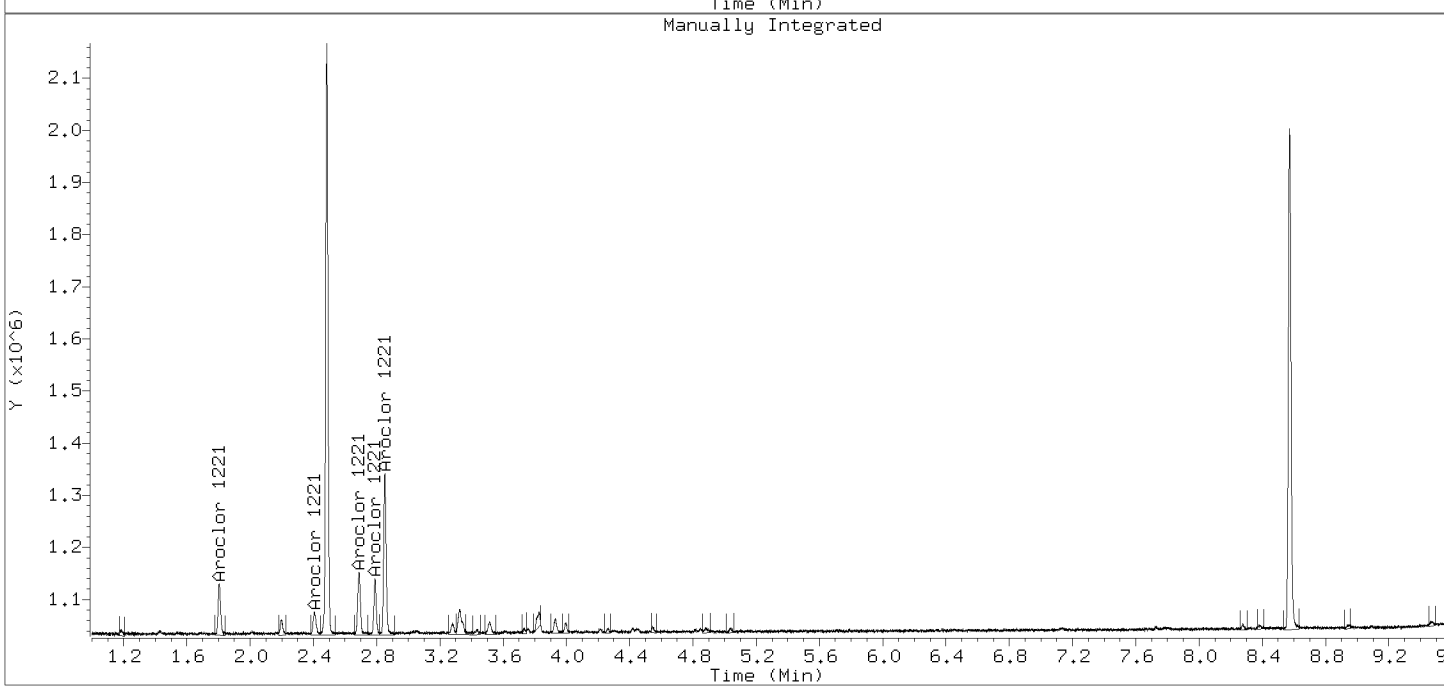
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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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SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

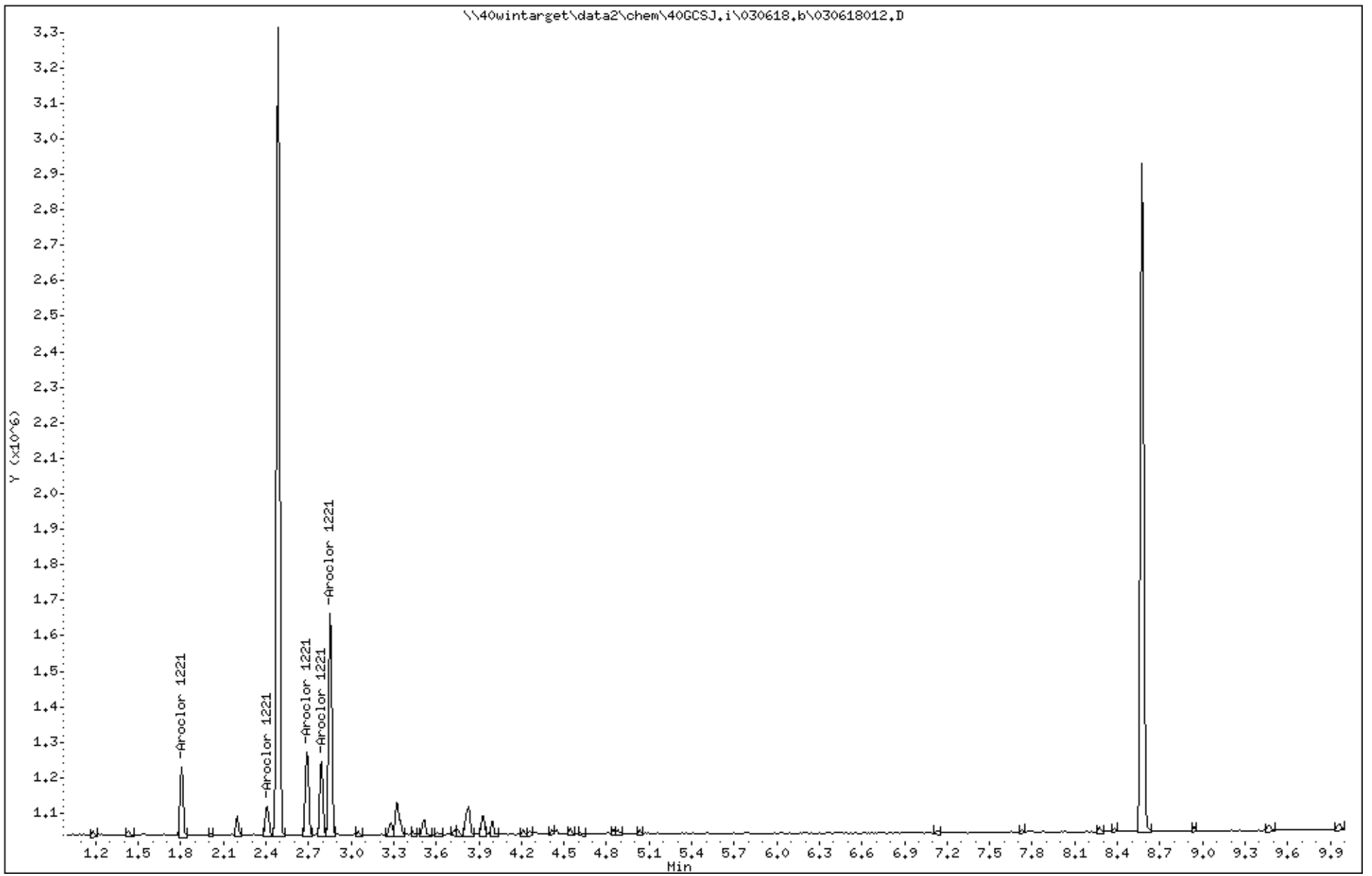
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

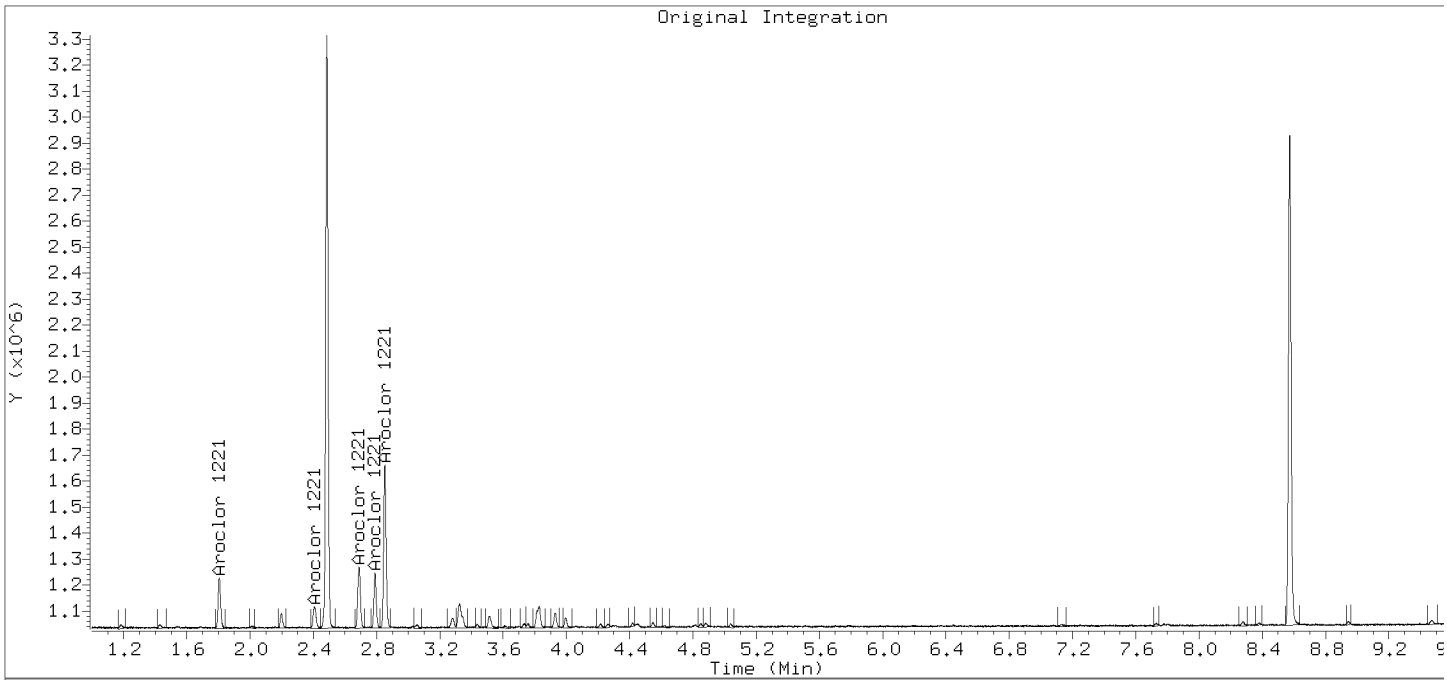
Operator: BLM

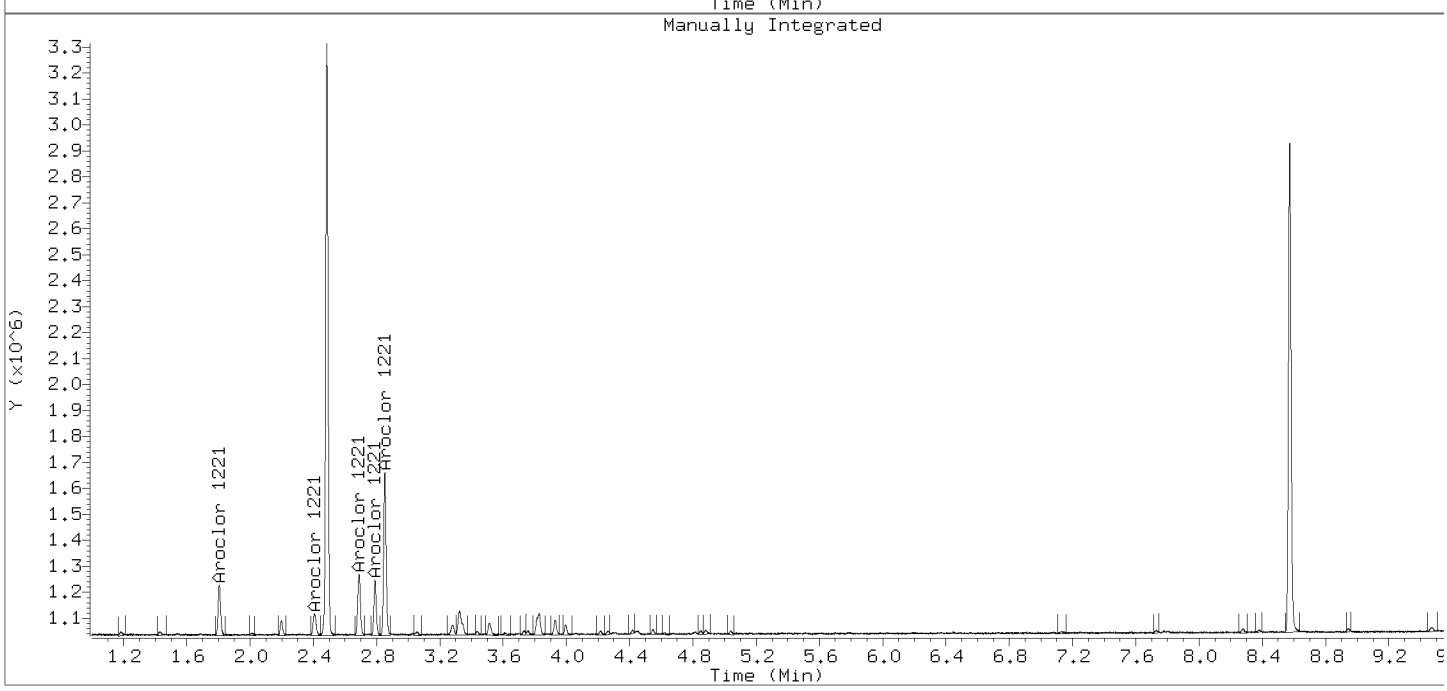
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

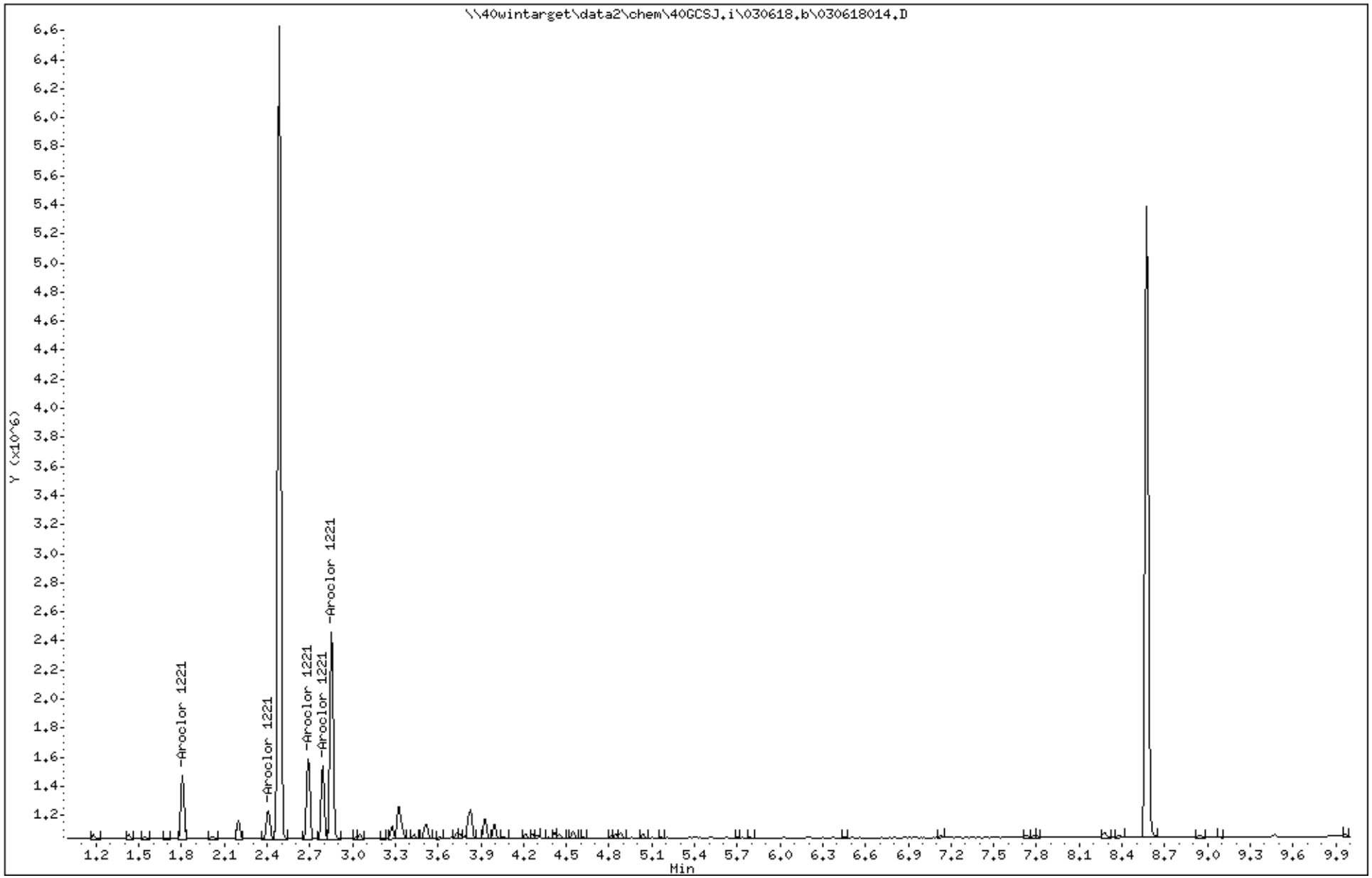
M - Compound response manually integrated.

Review Codes Legend

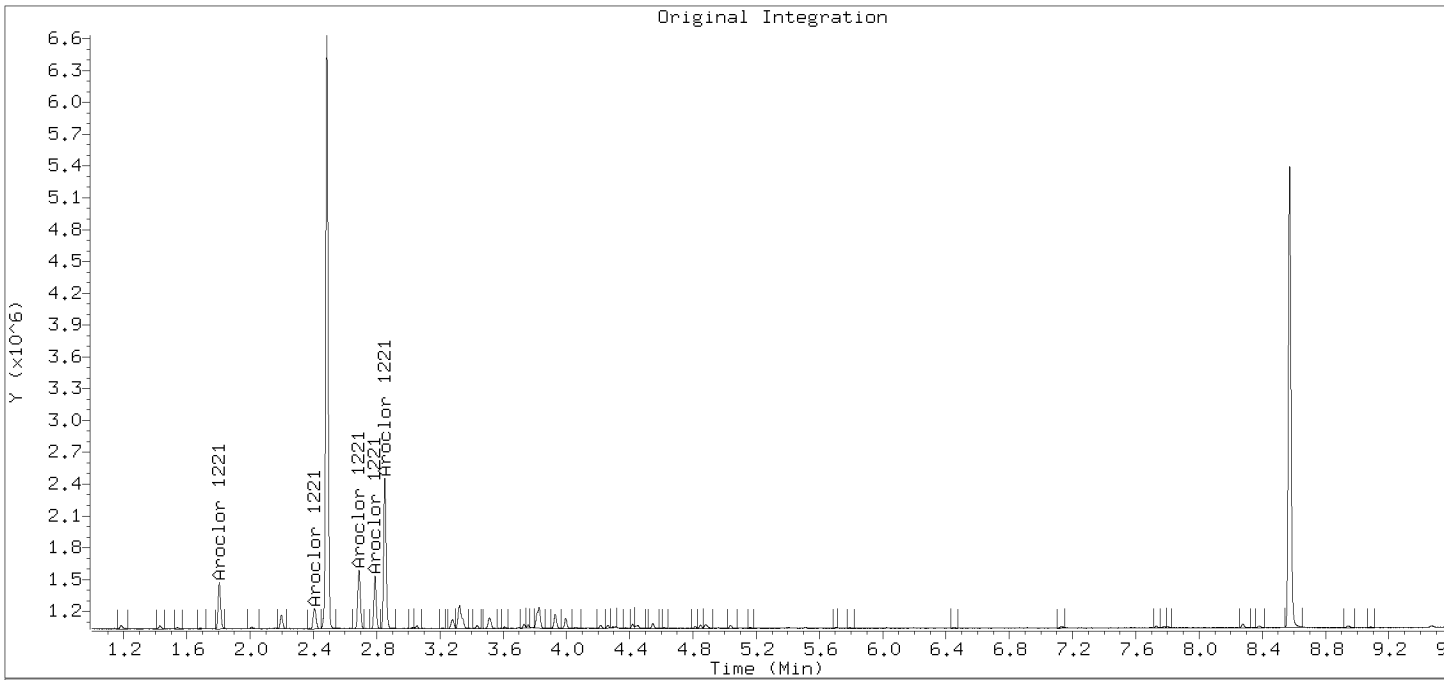
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

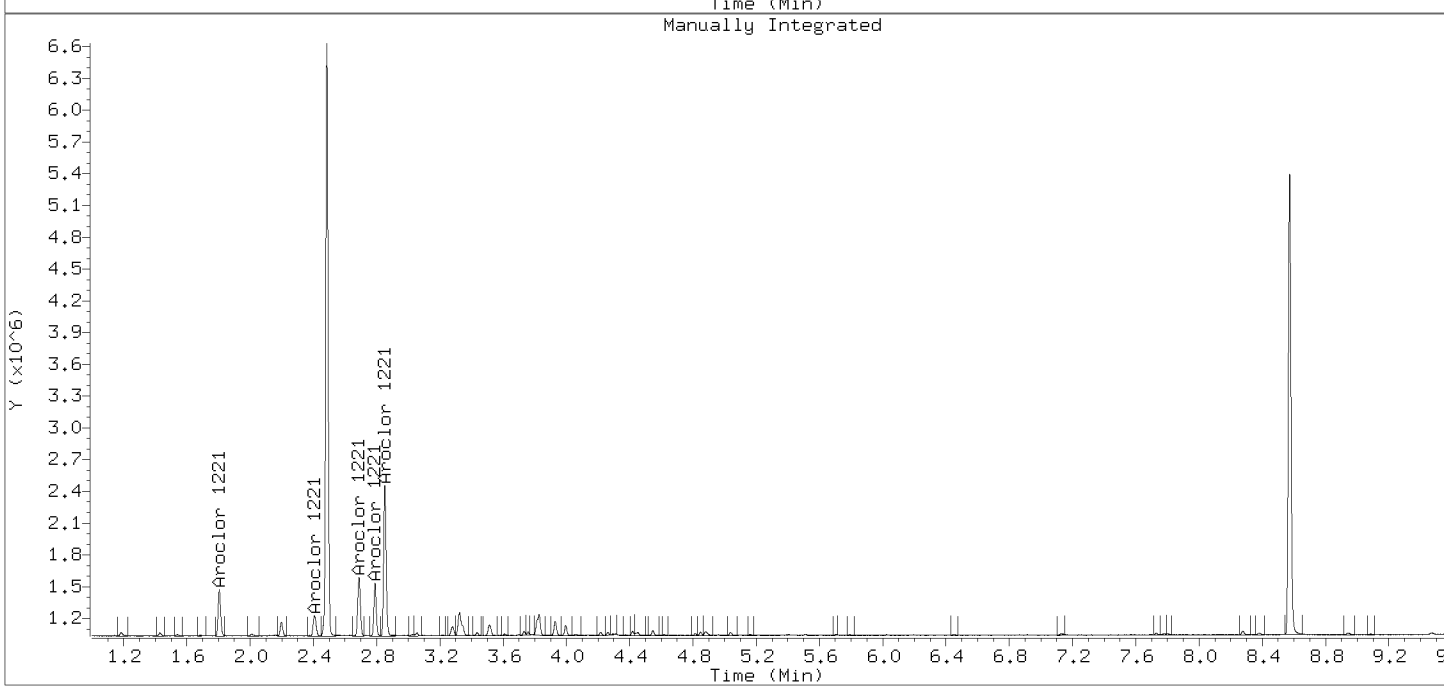
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

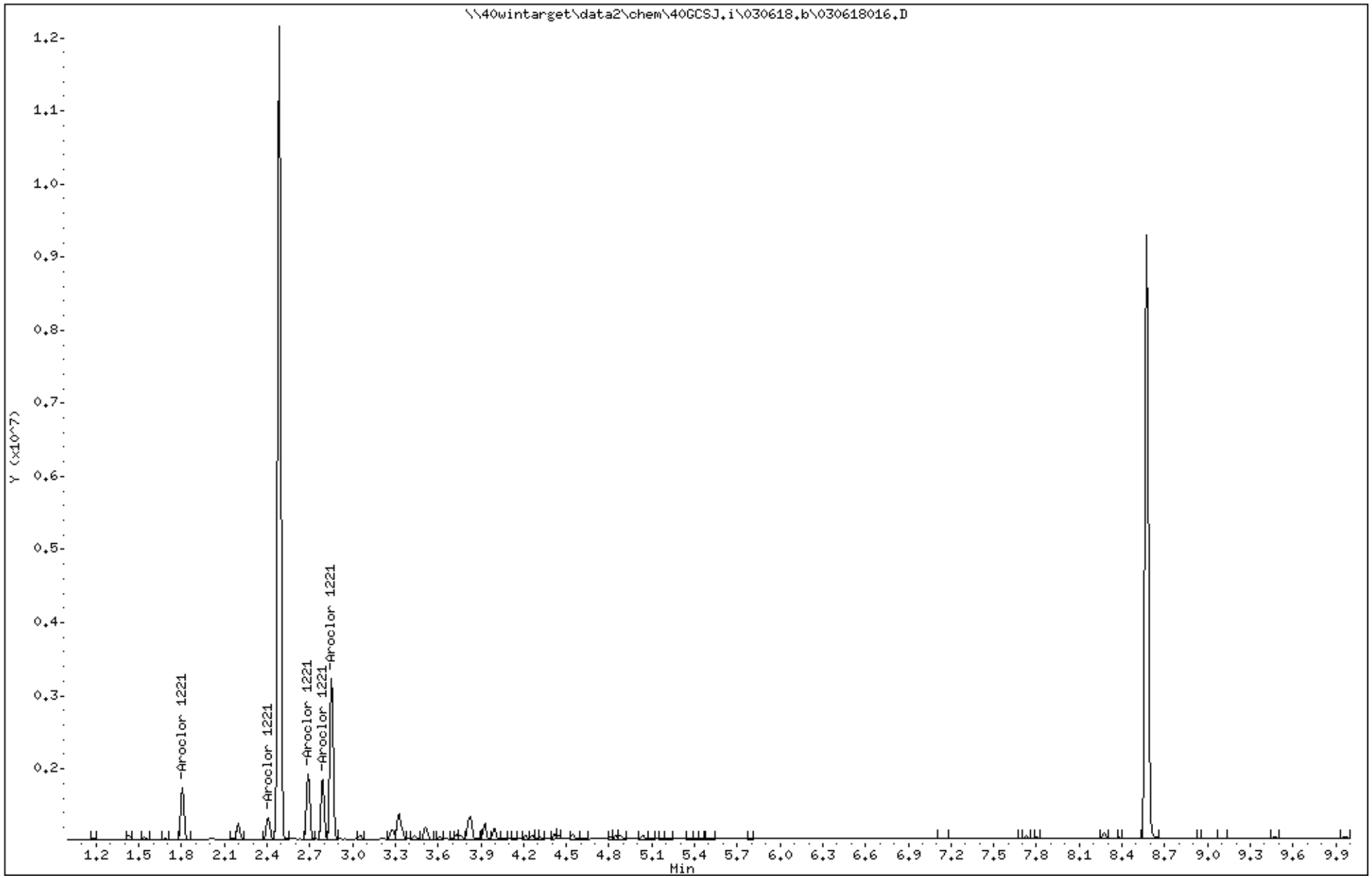
M - Compound response manually integrated.

Review Codes Legend

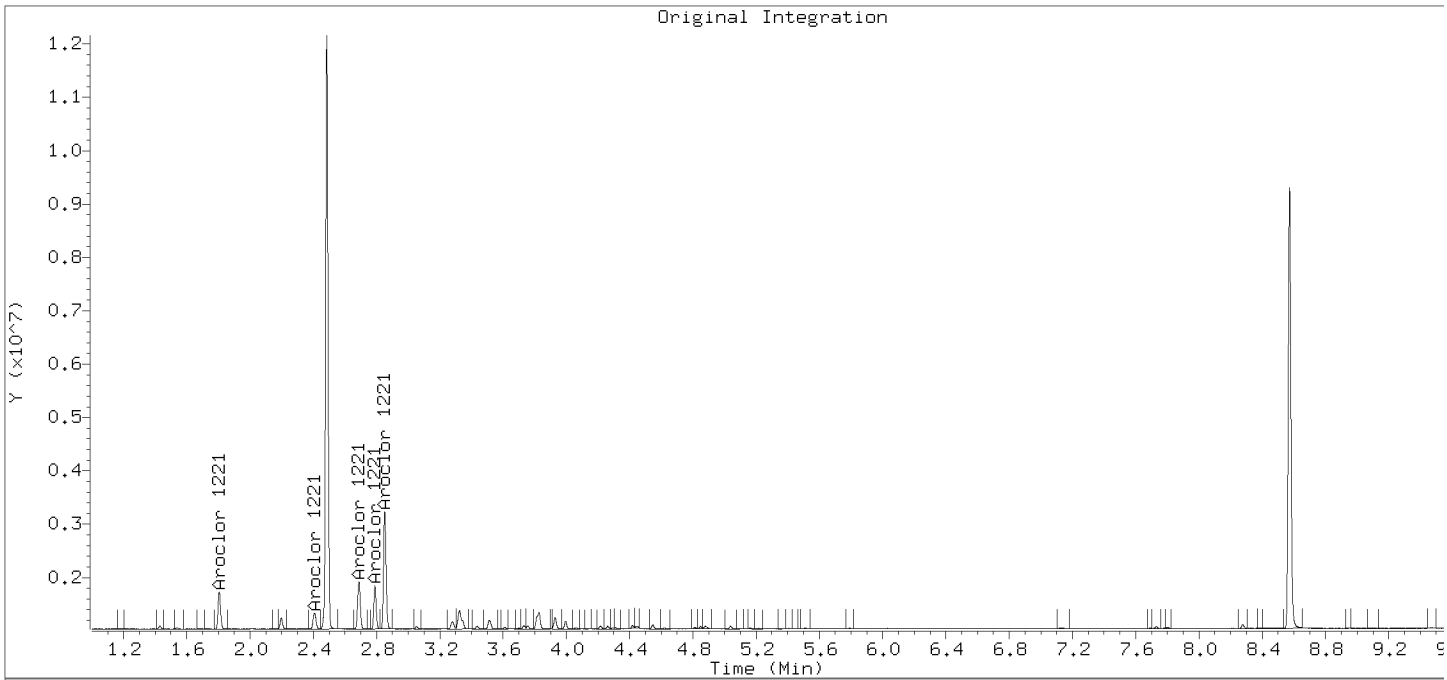
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

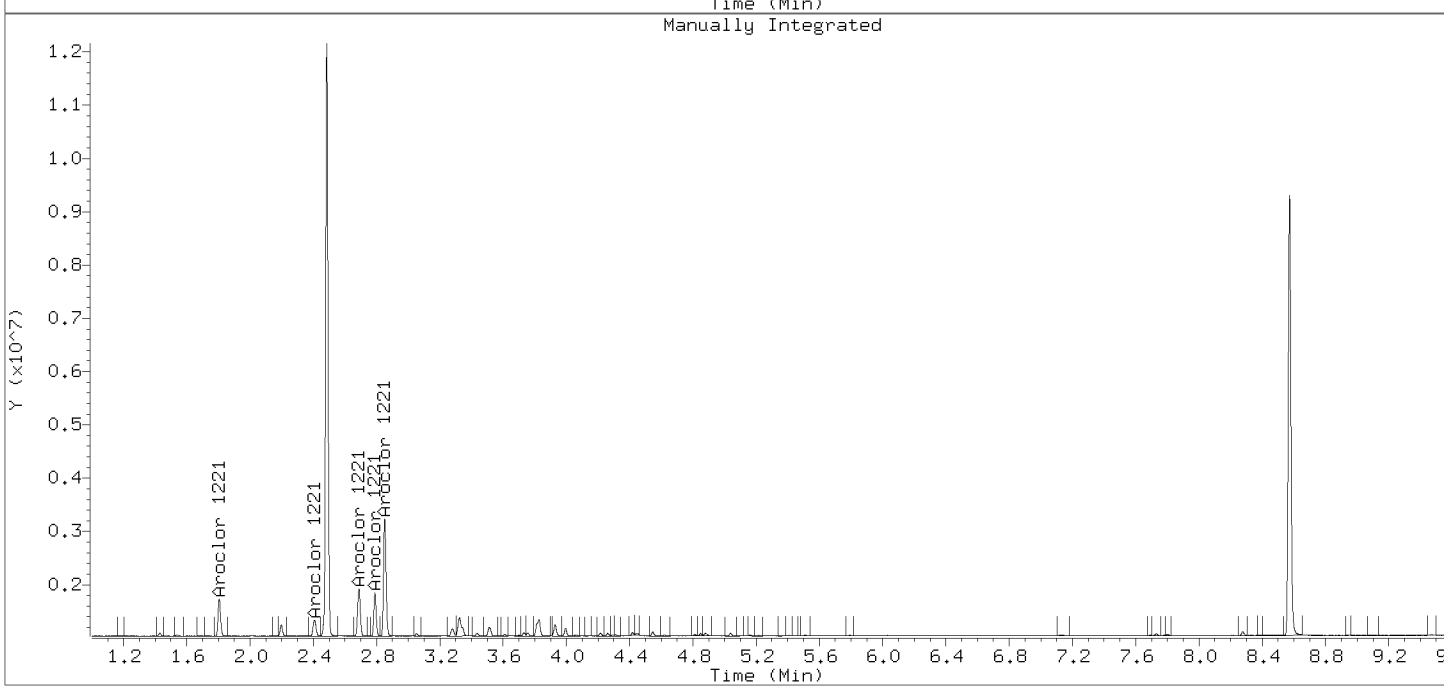
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

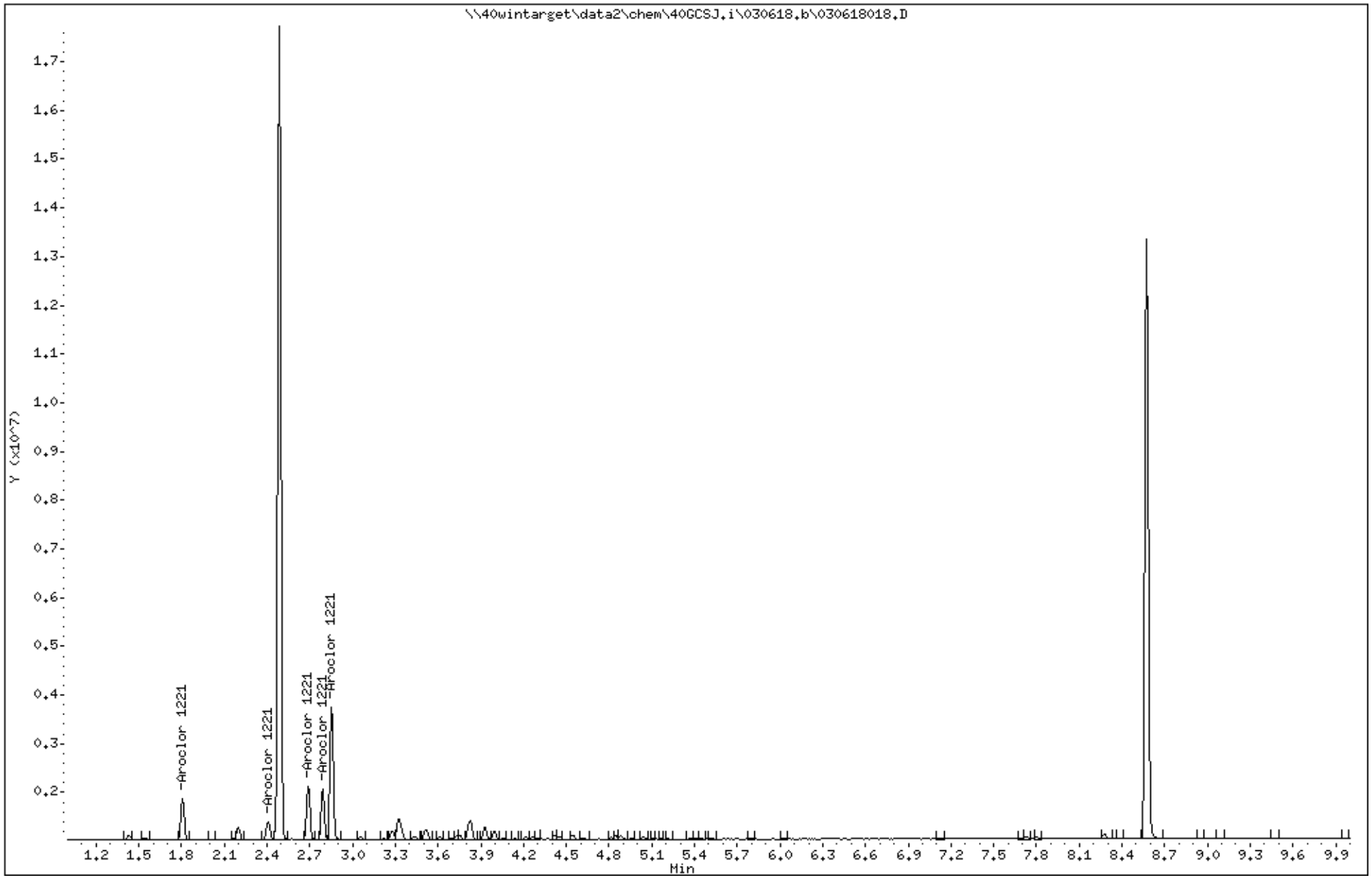
M - Compound response manually integrated.

Review Codes Legend

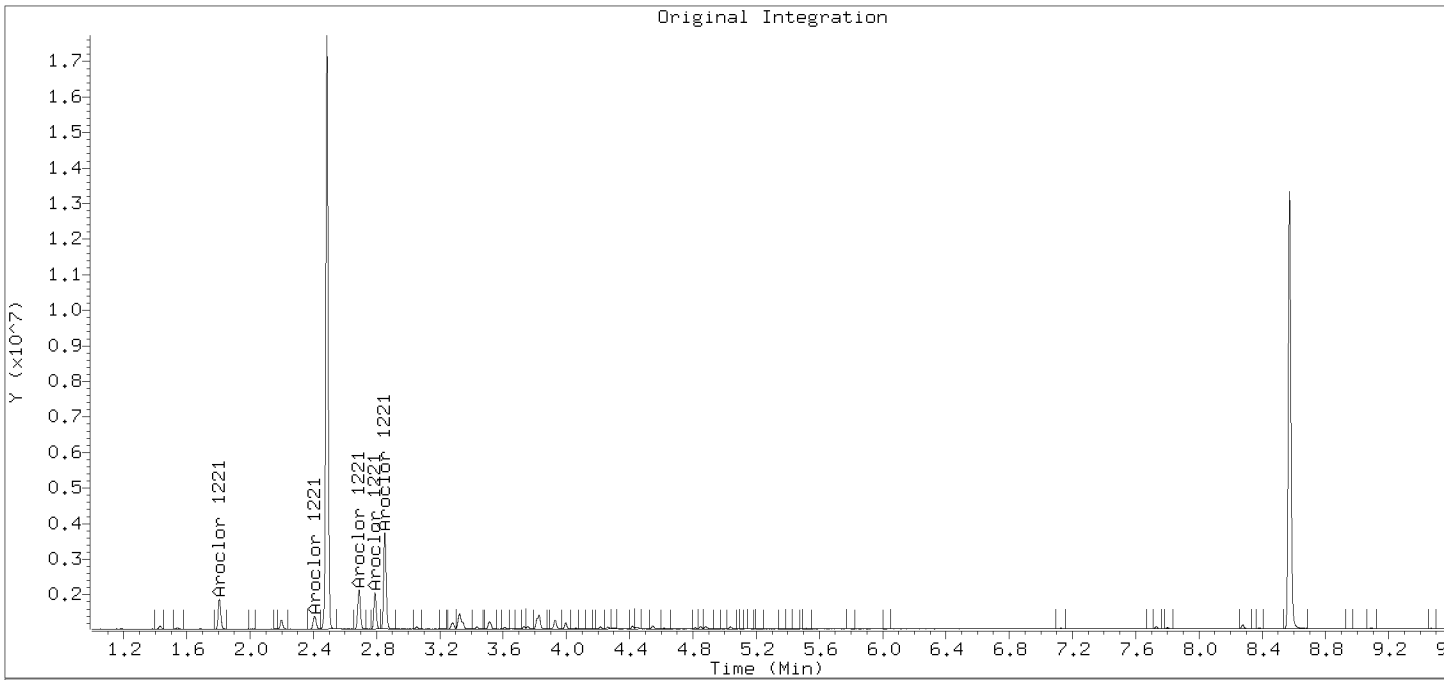
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

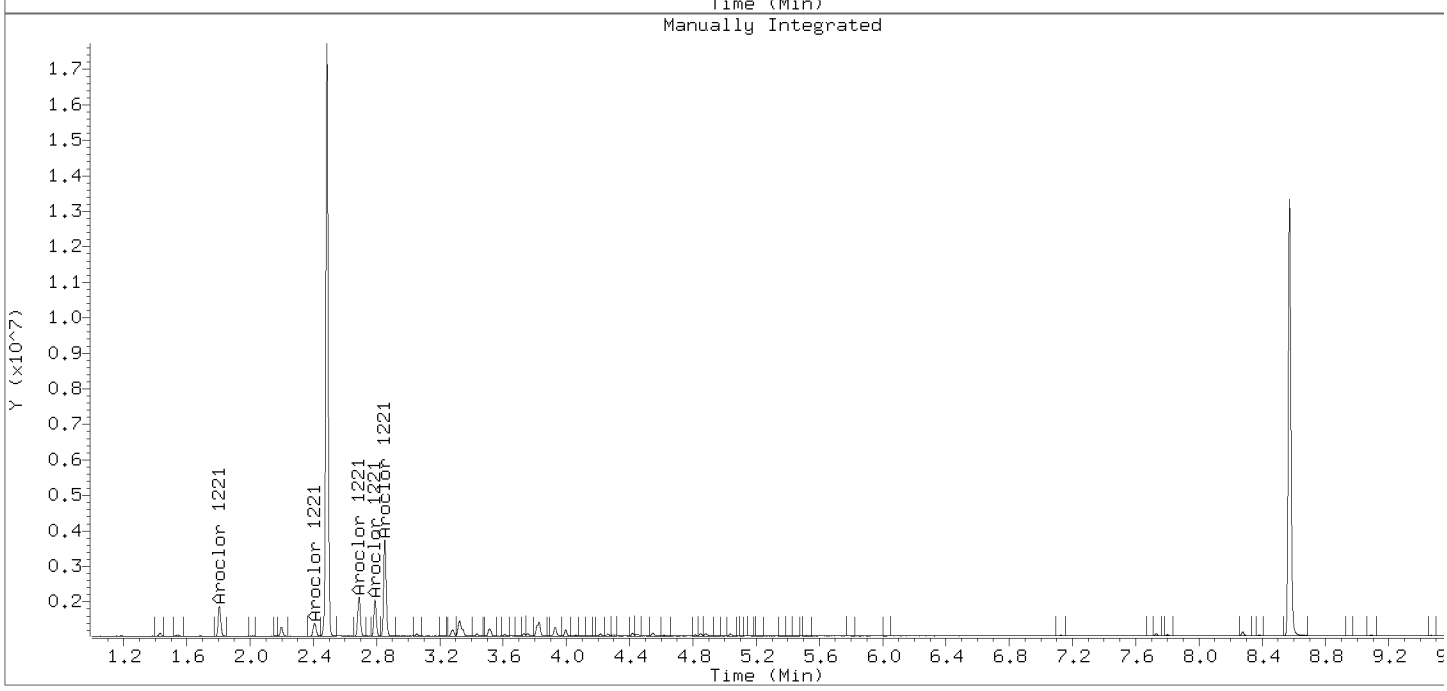
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

Average of Peak Amounts = 0.11000

QC Flag Legend

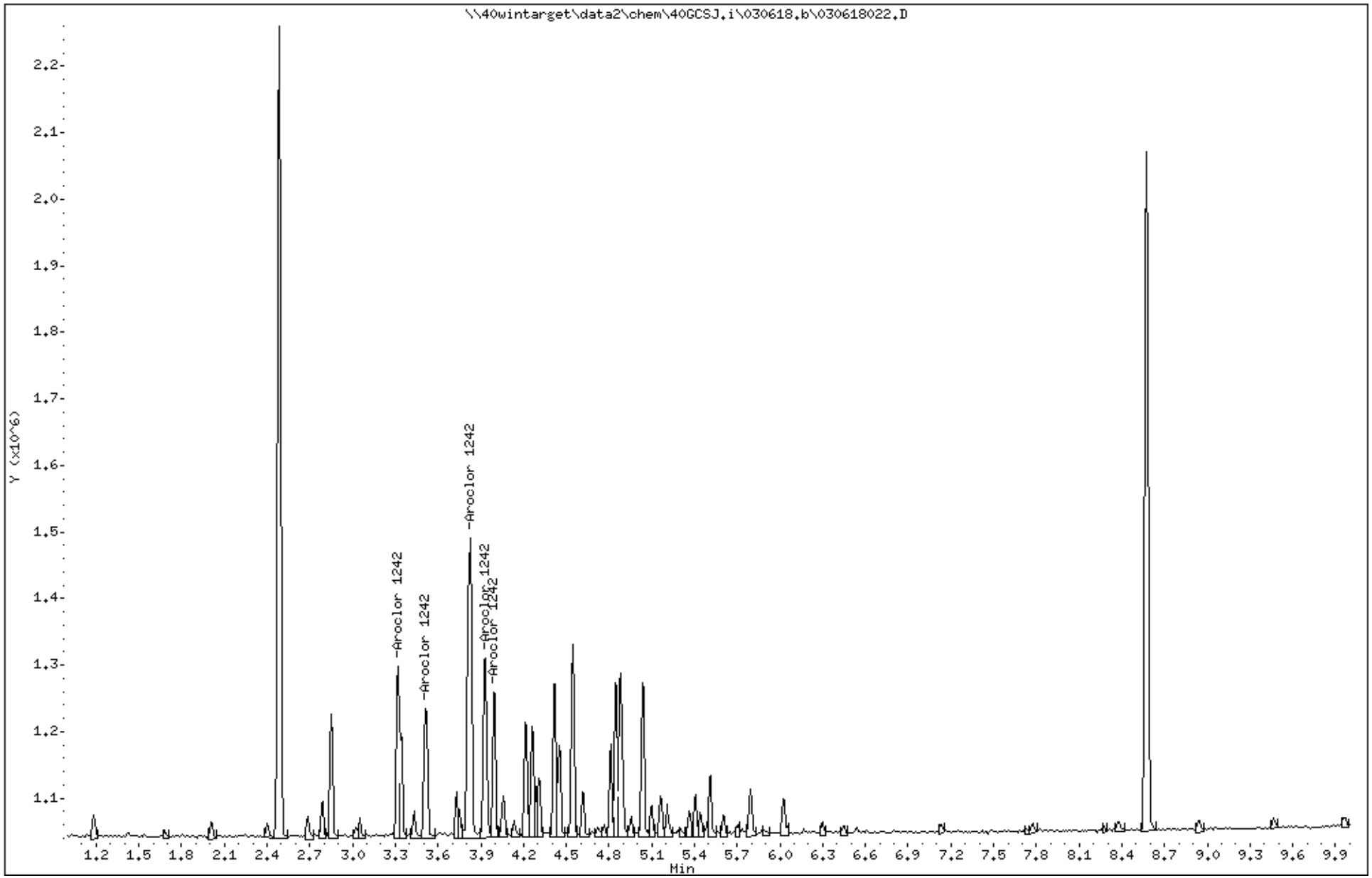
M - Compound response manually integrated.

Review Codes Legend

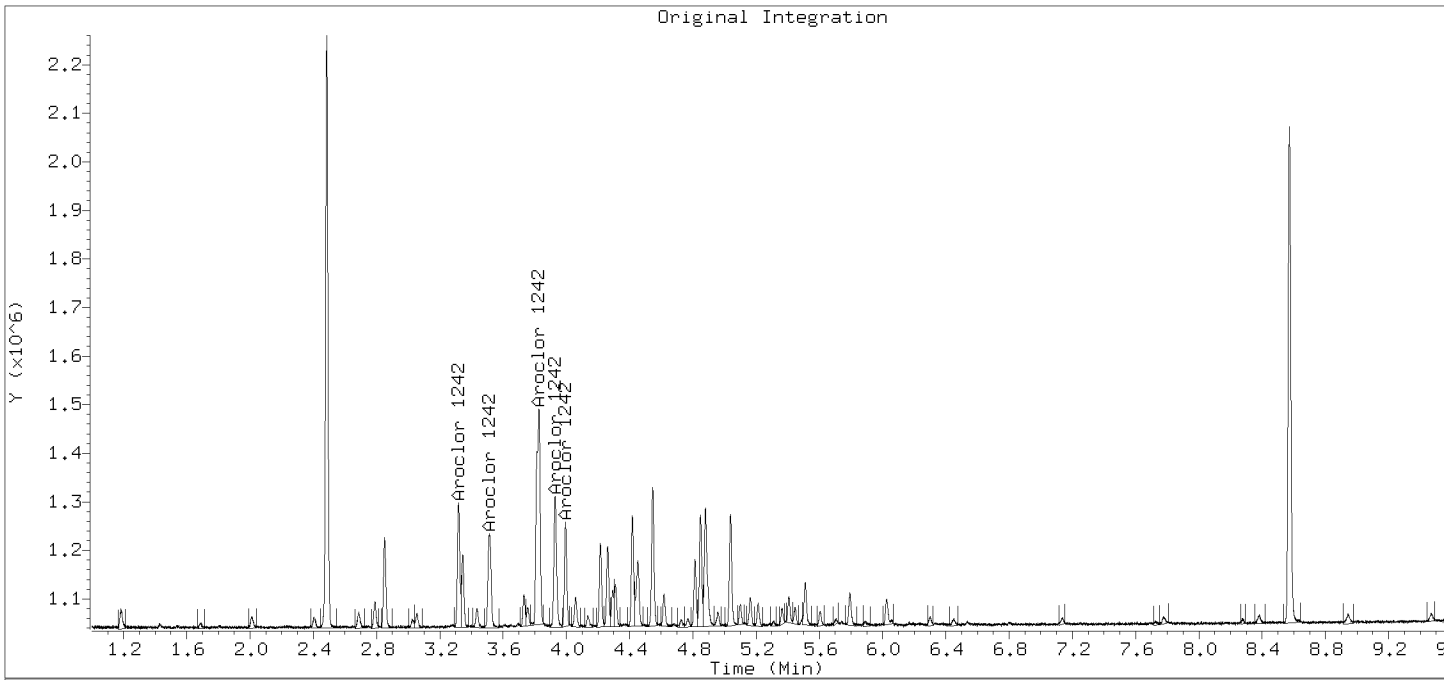
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

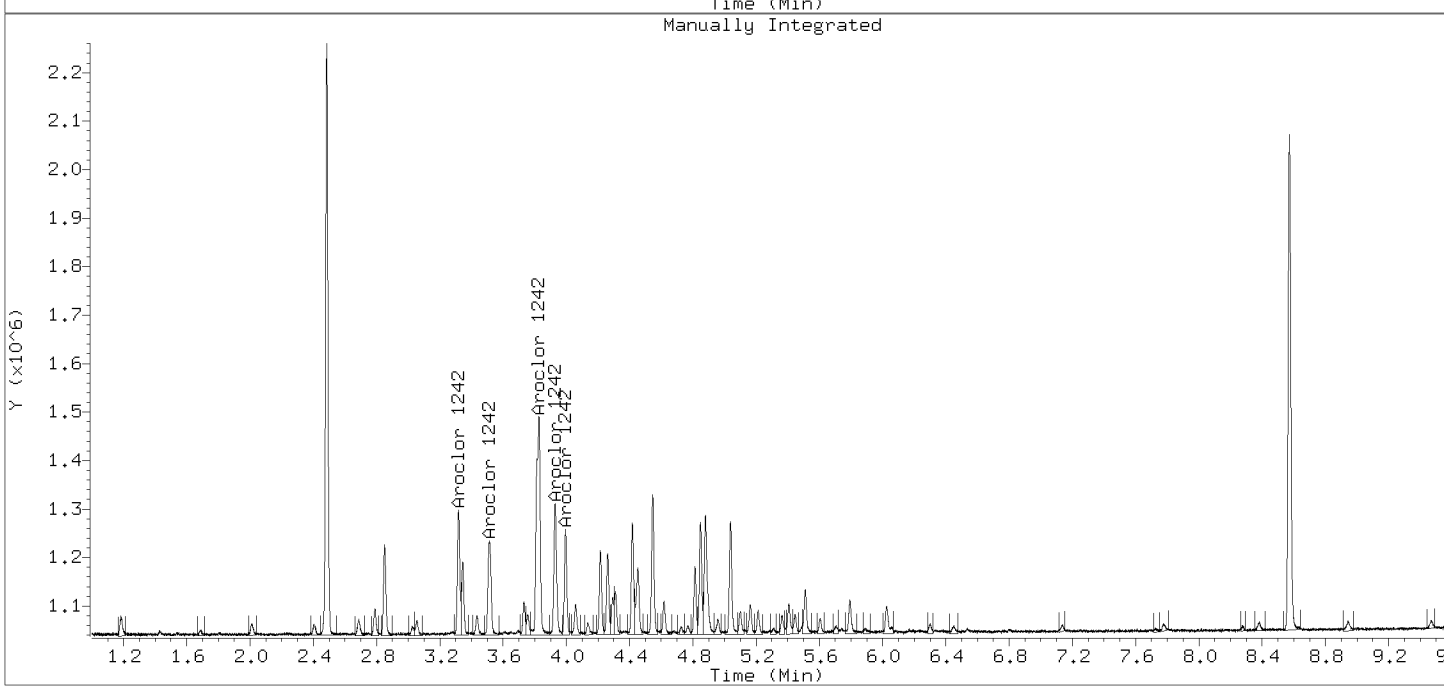
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

Instrument: 40GCSJ.i
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

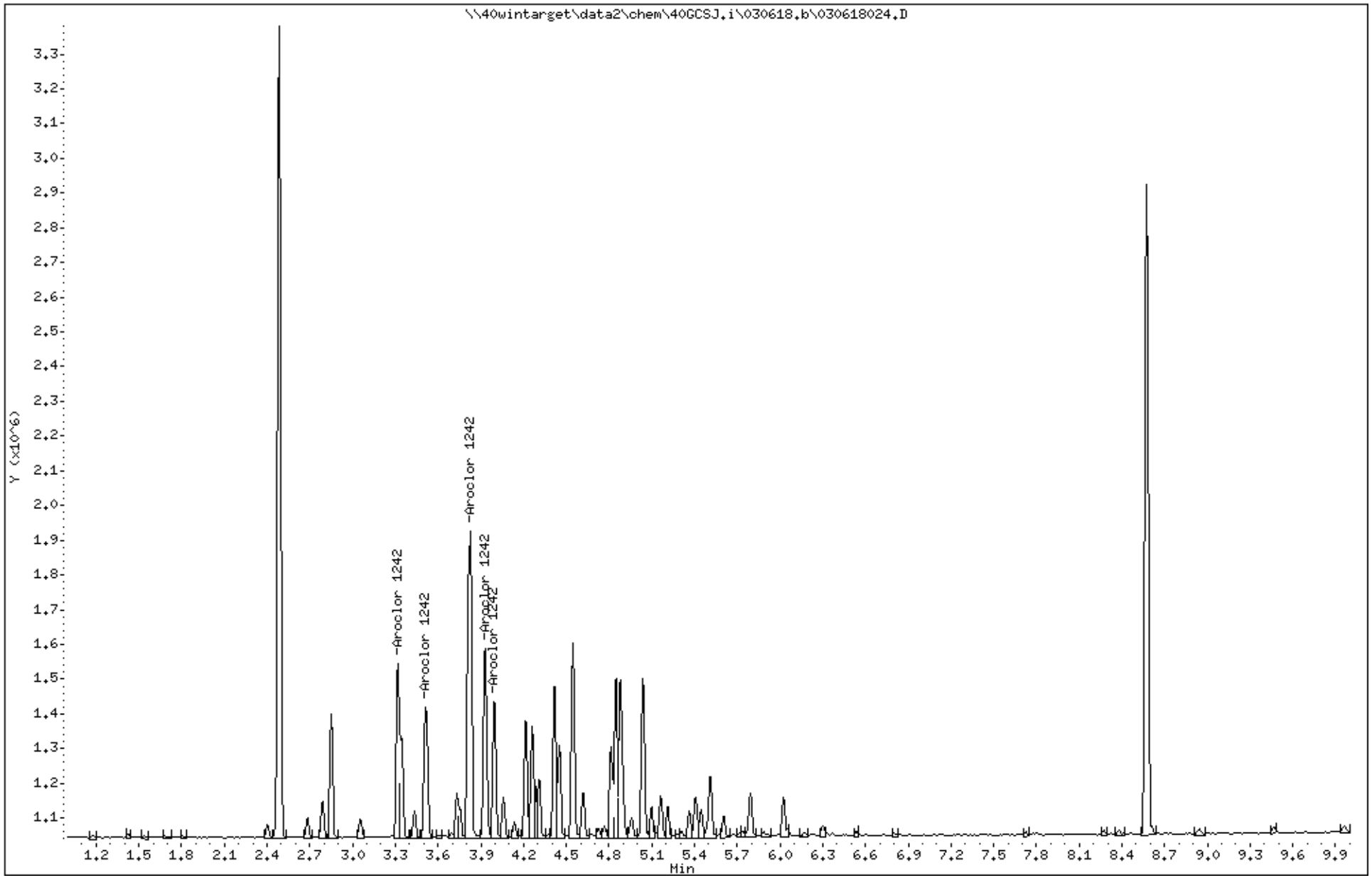
M - Compound response manually integrated.

Review Codes Legend

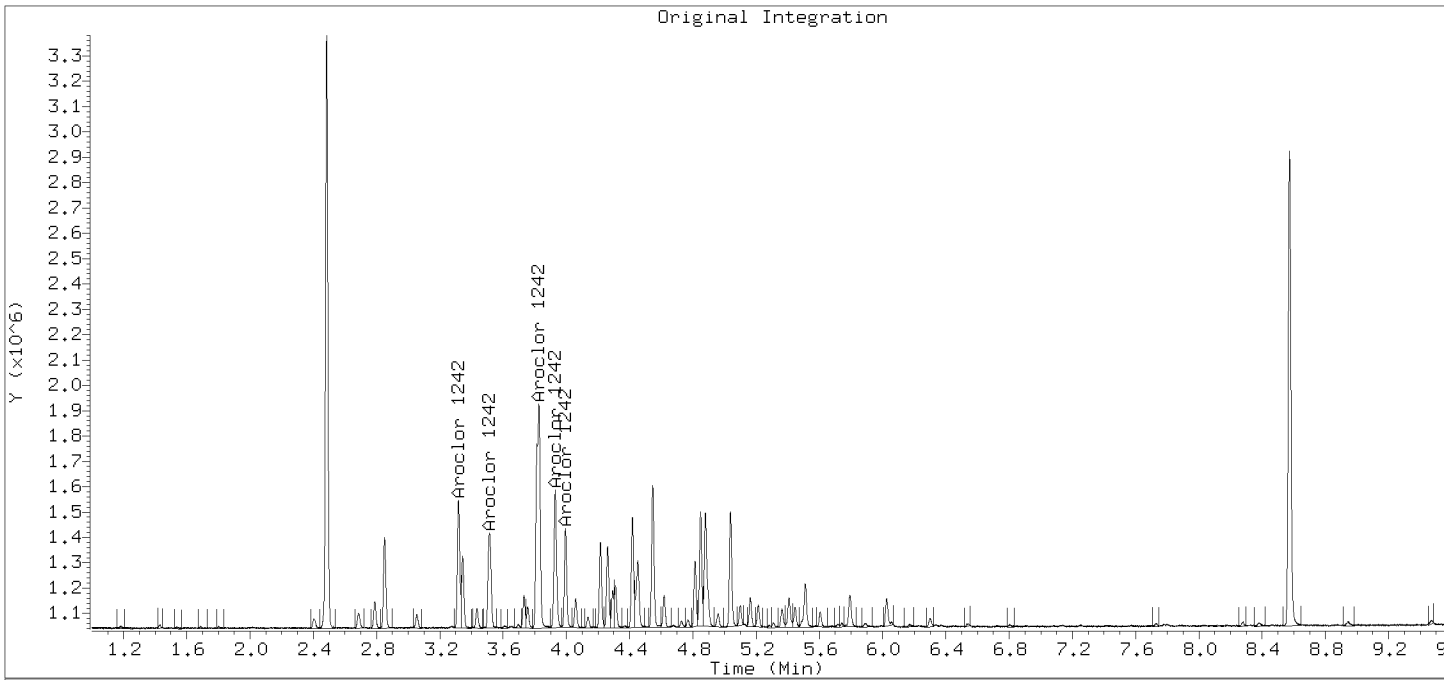
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

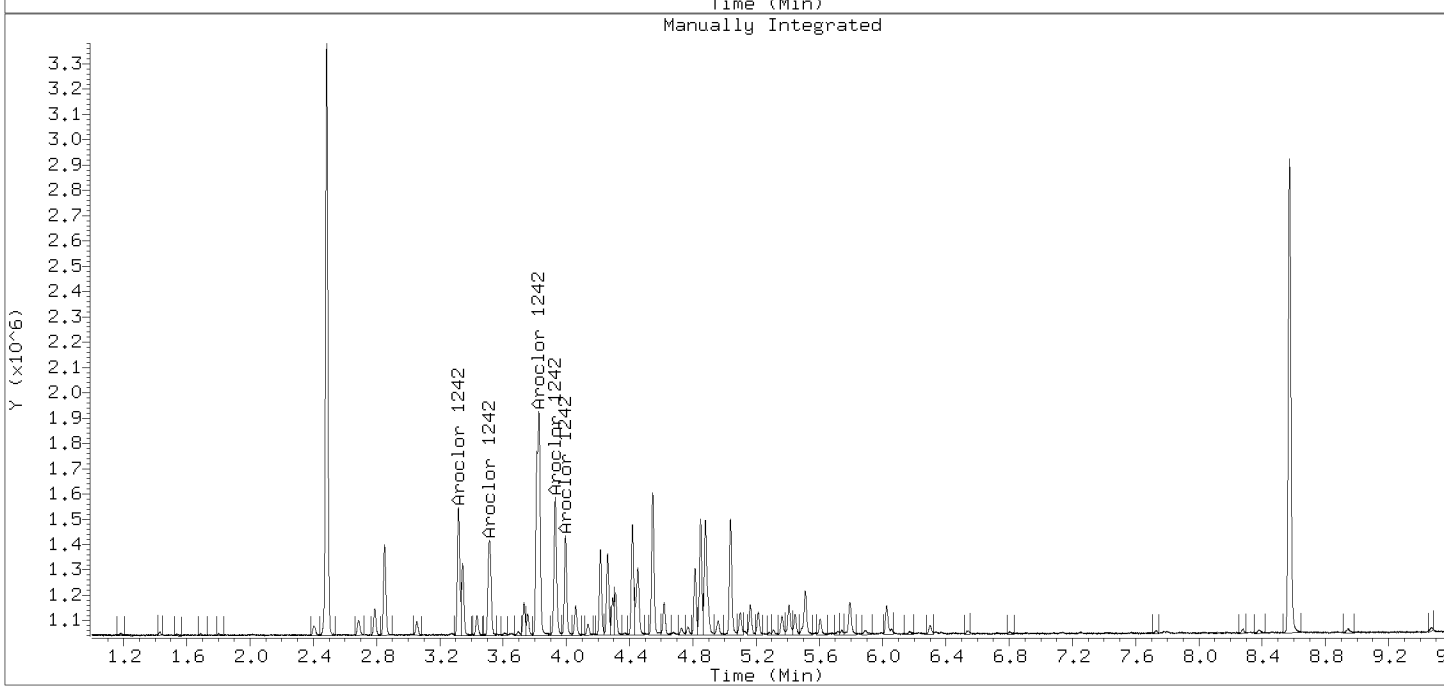
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

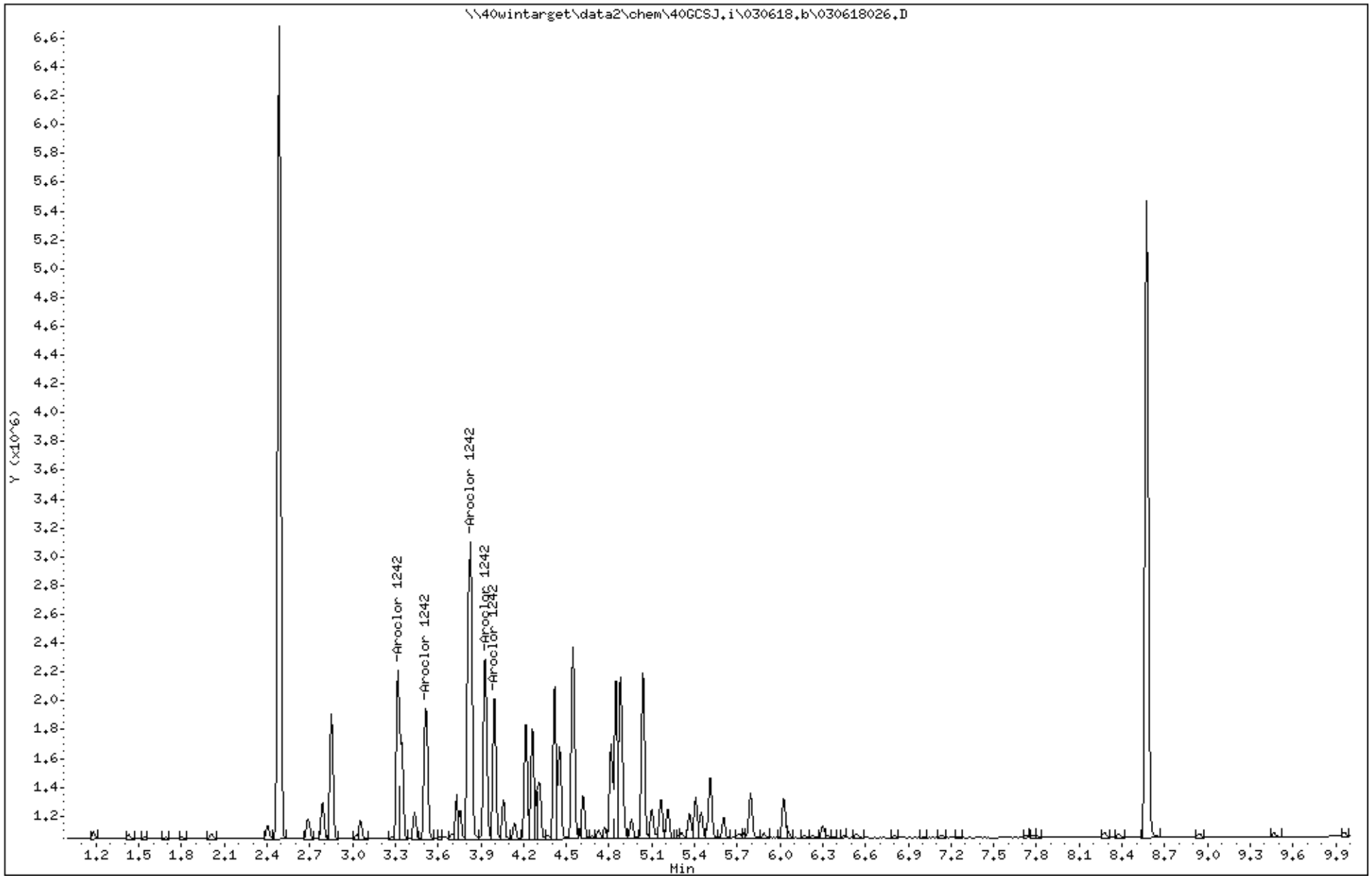
M - Compound response manually integrated.

Review Codes Legend

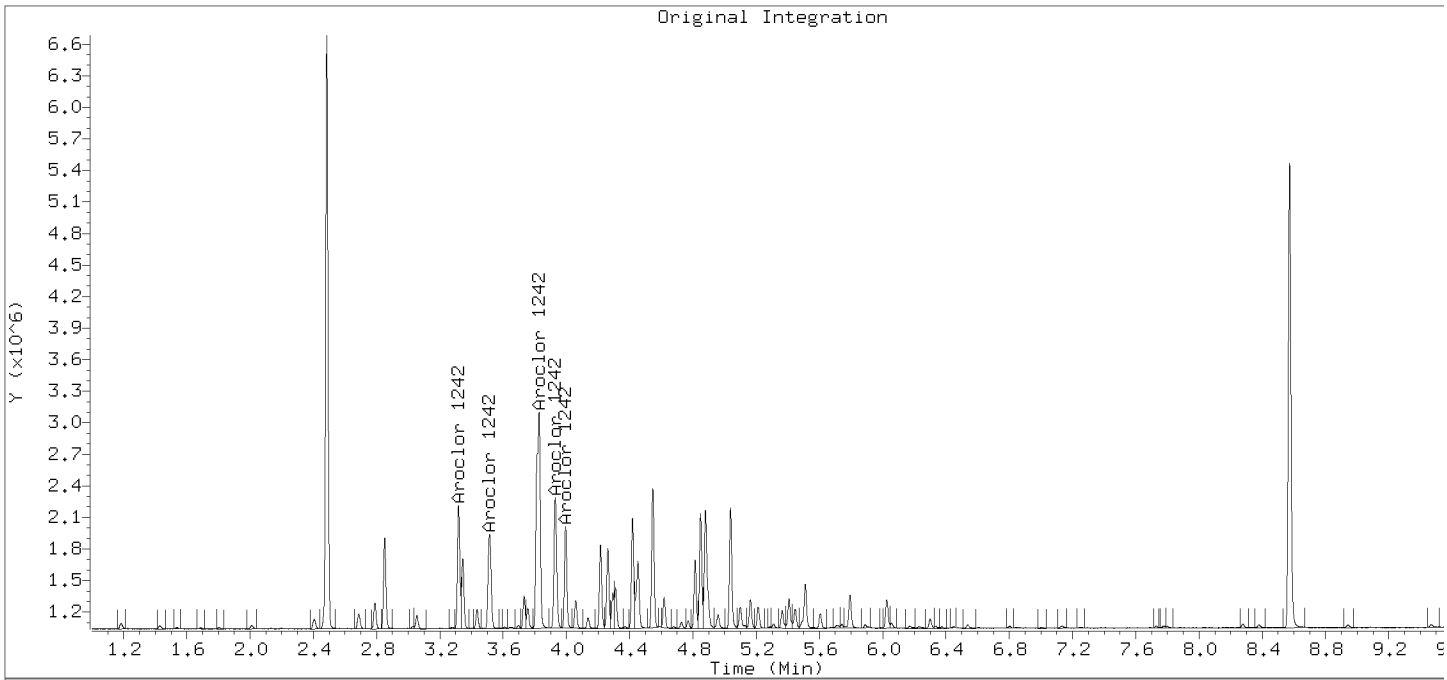
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

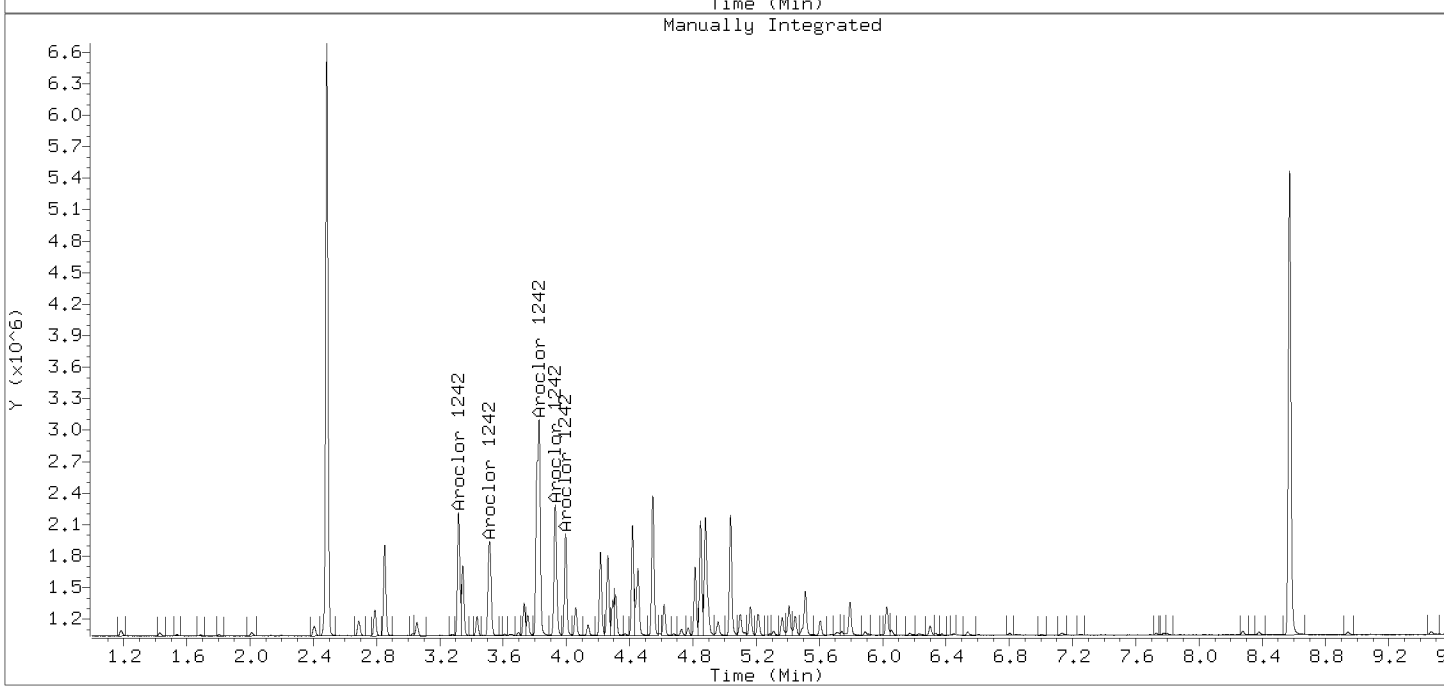
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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

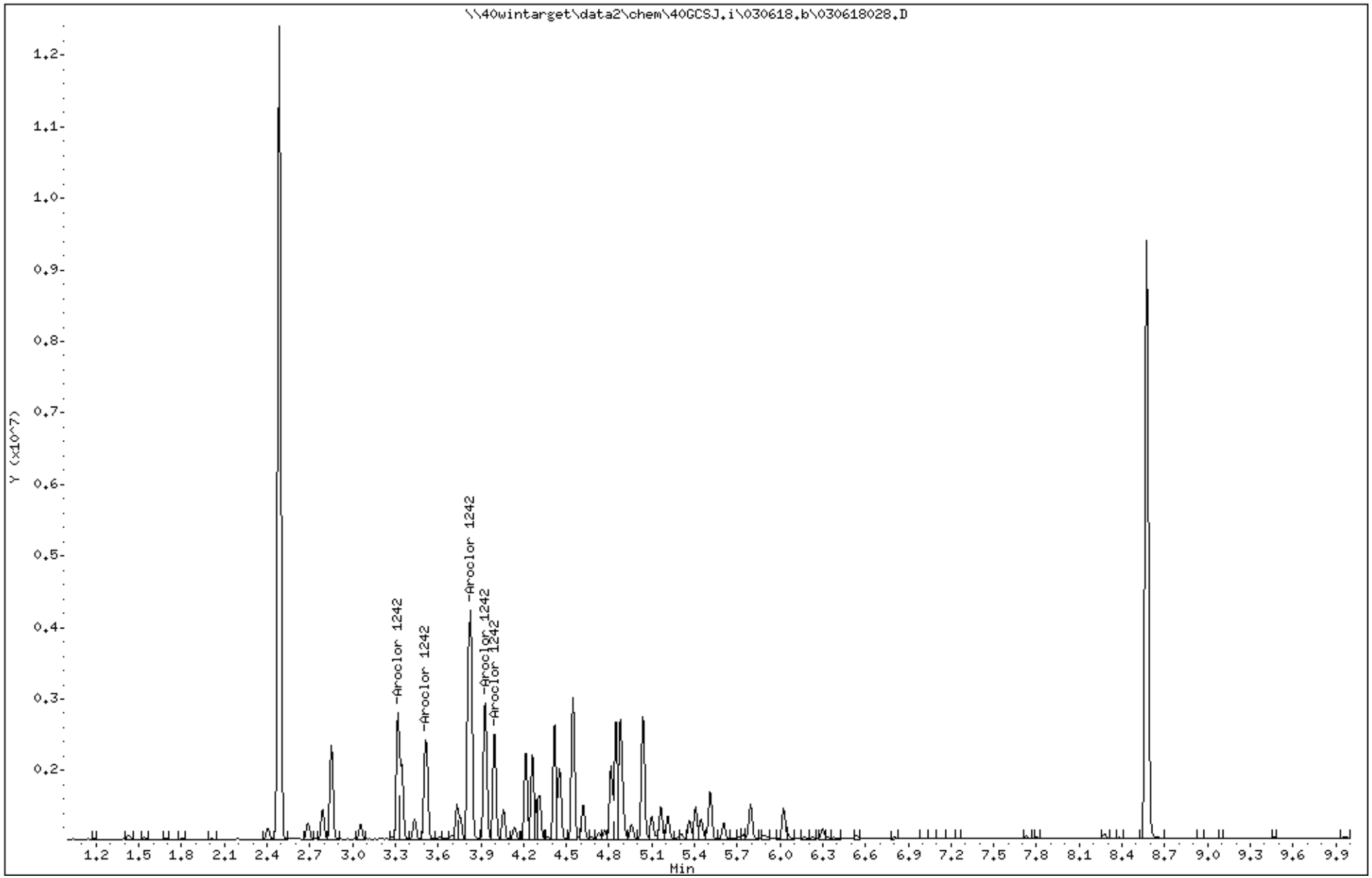
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

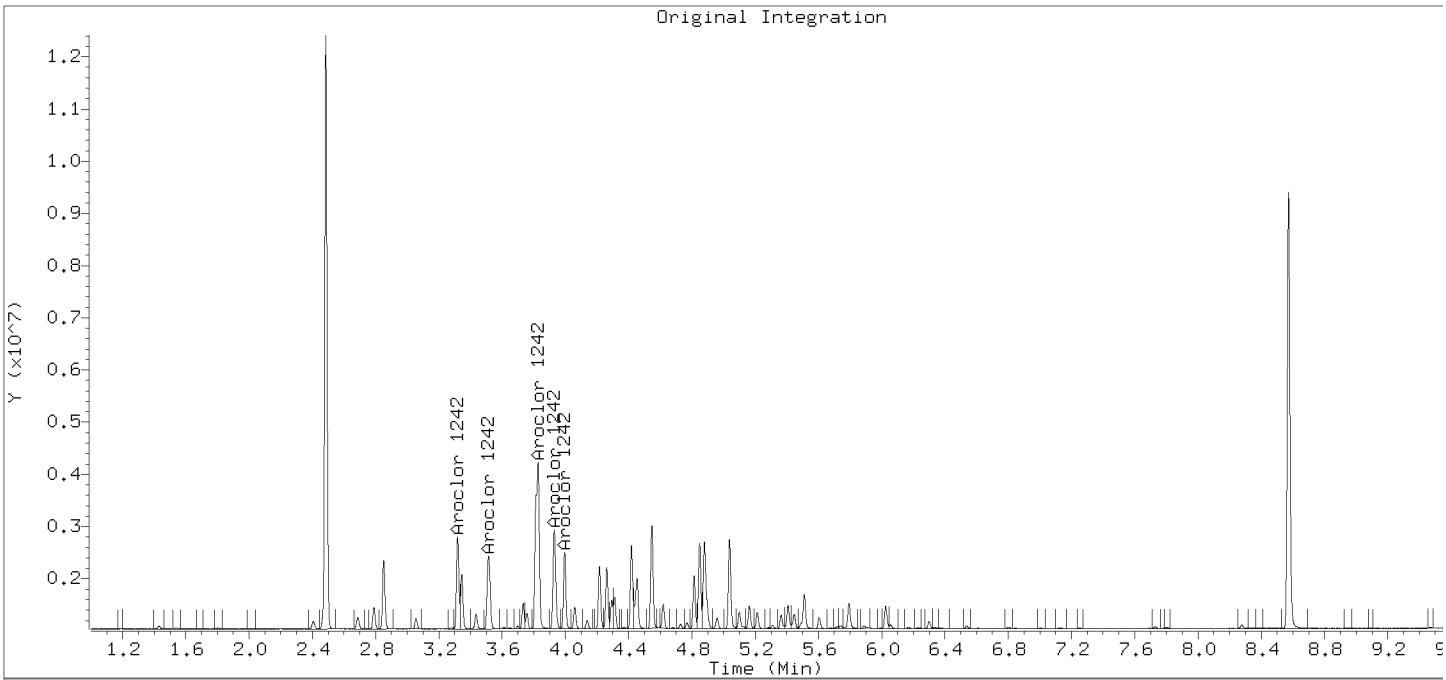
Operator: BLM

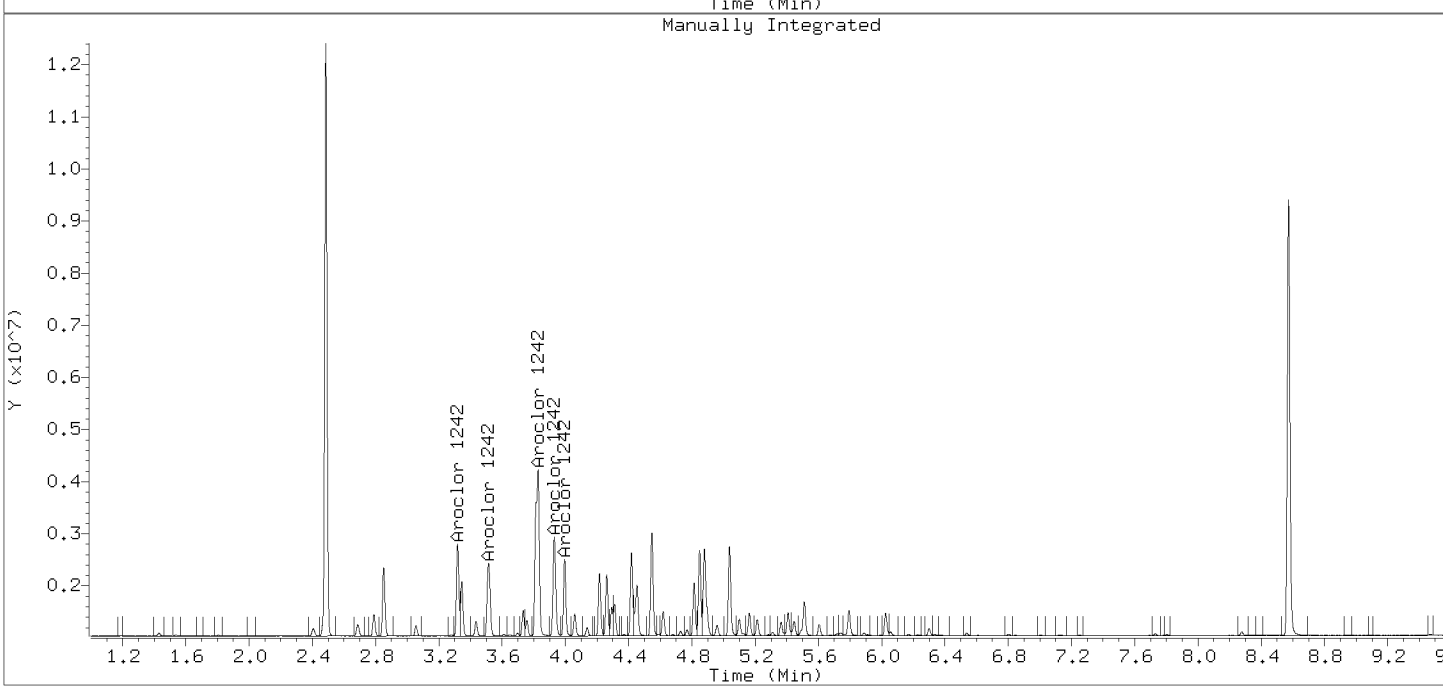
Column phase: ZB-1ms

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

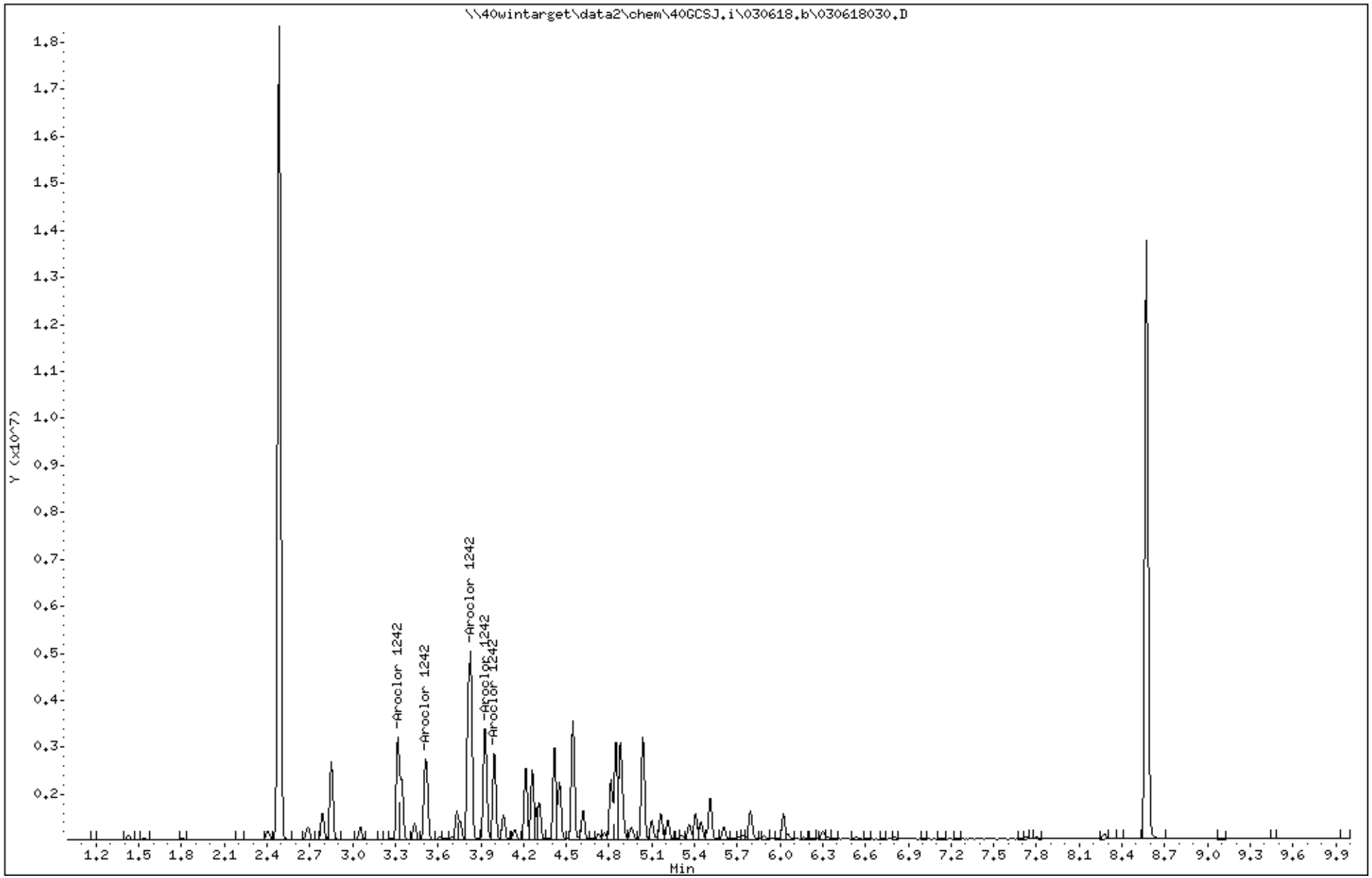
M - Compound response manually integrated.

Review Codes Legend

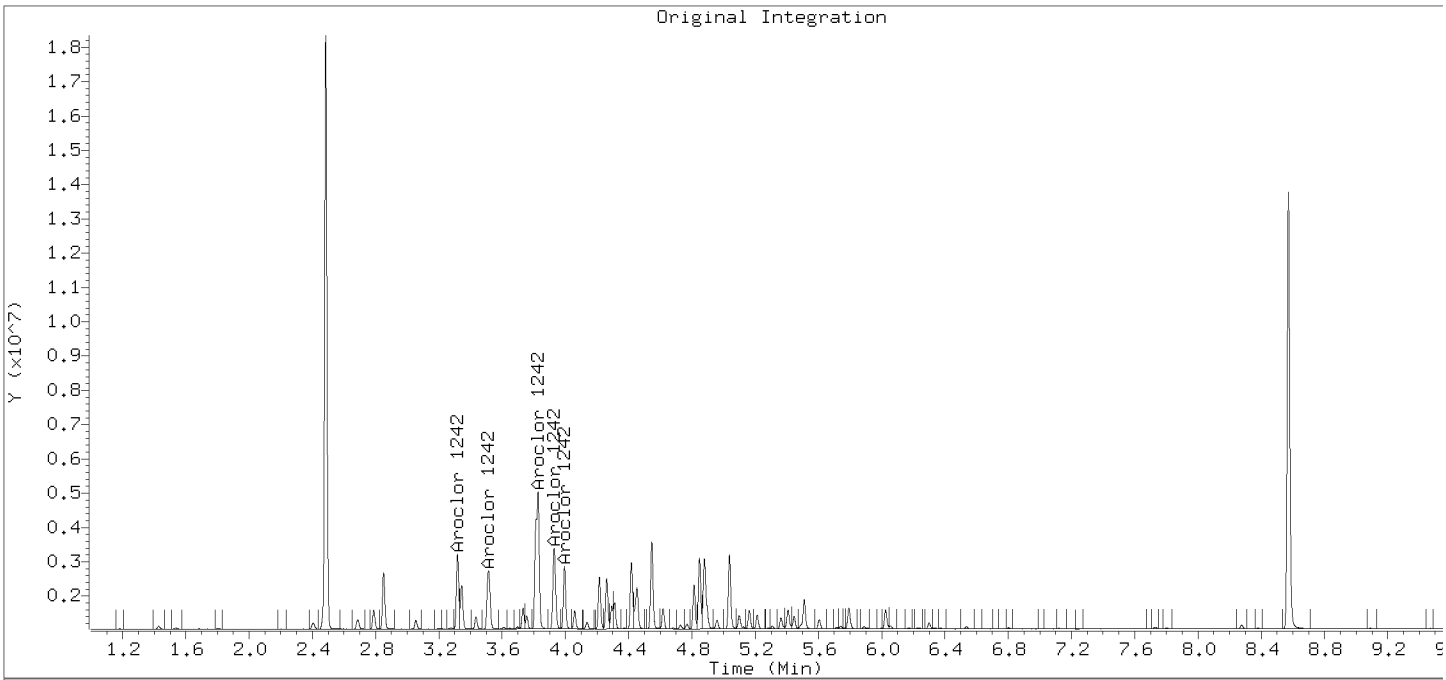
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

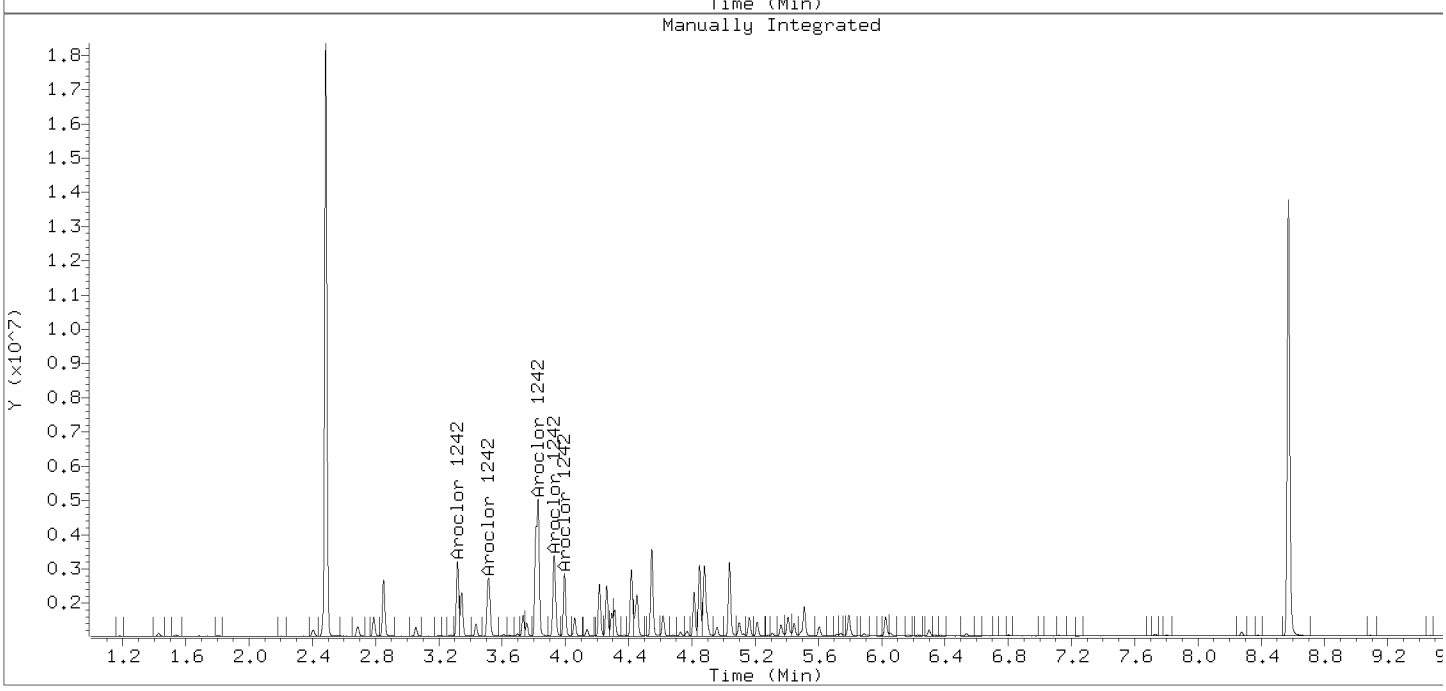
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D

Date : 06-MAR-2018 15:21

Client ID: 1248-CAL1D

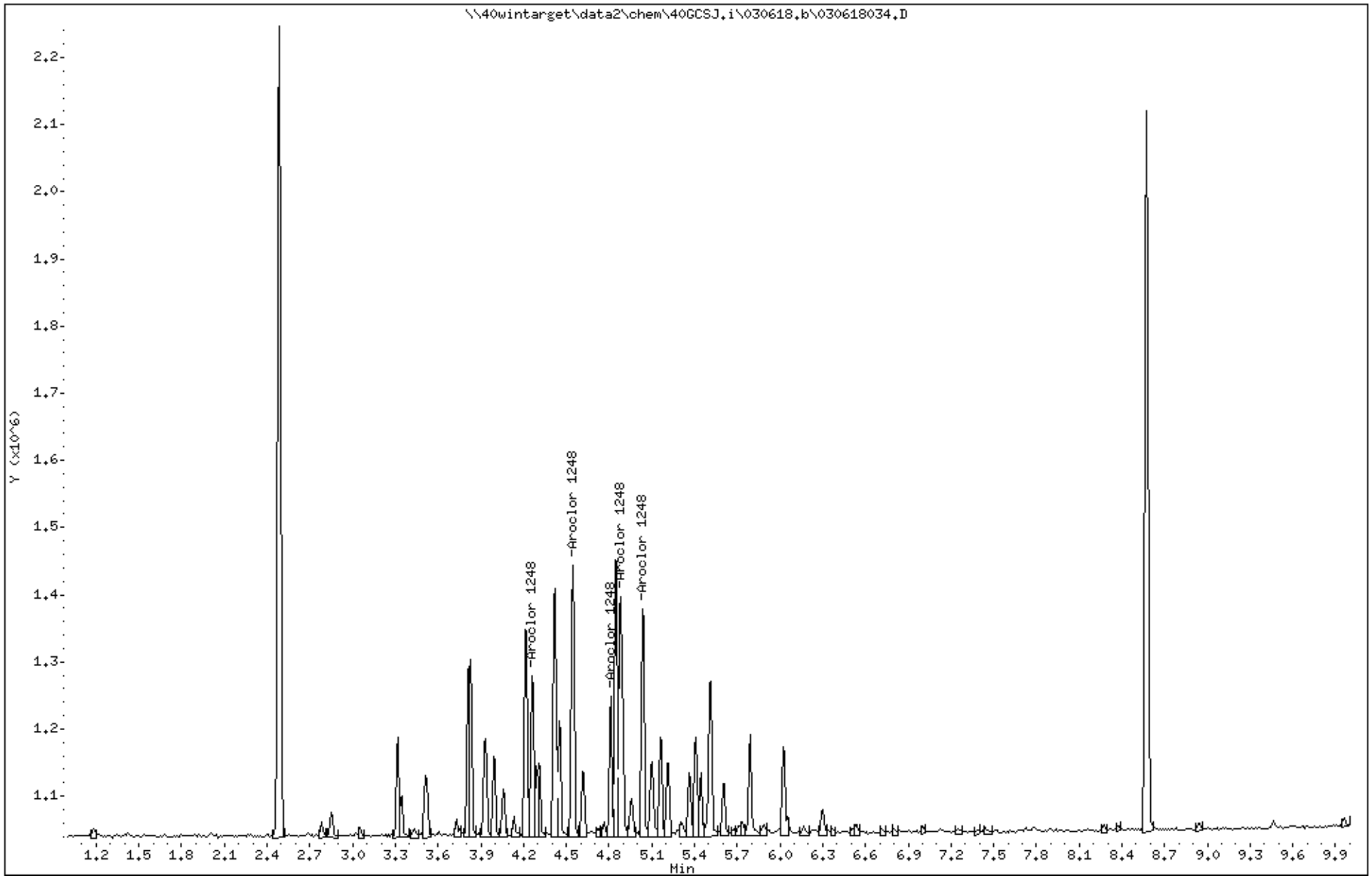
Instrument: 40GCSJ.i

Sample Info: 1248-CAL1D, 188134:1

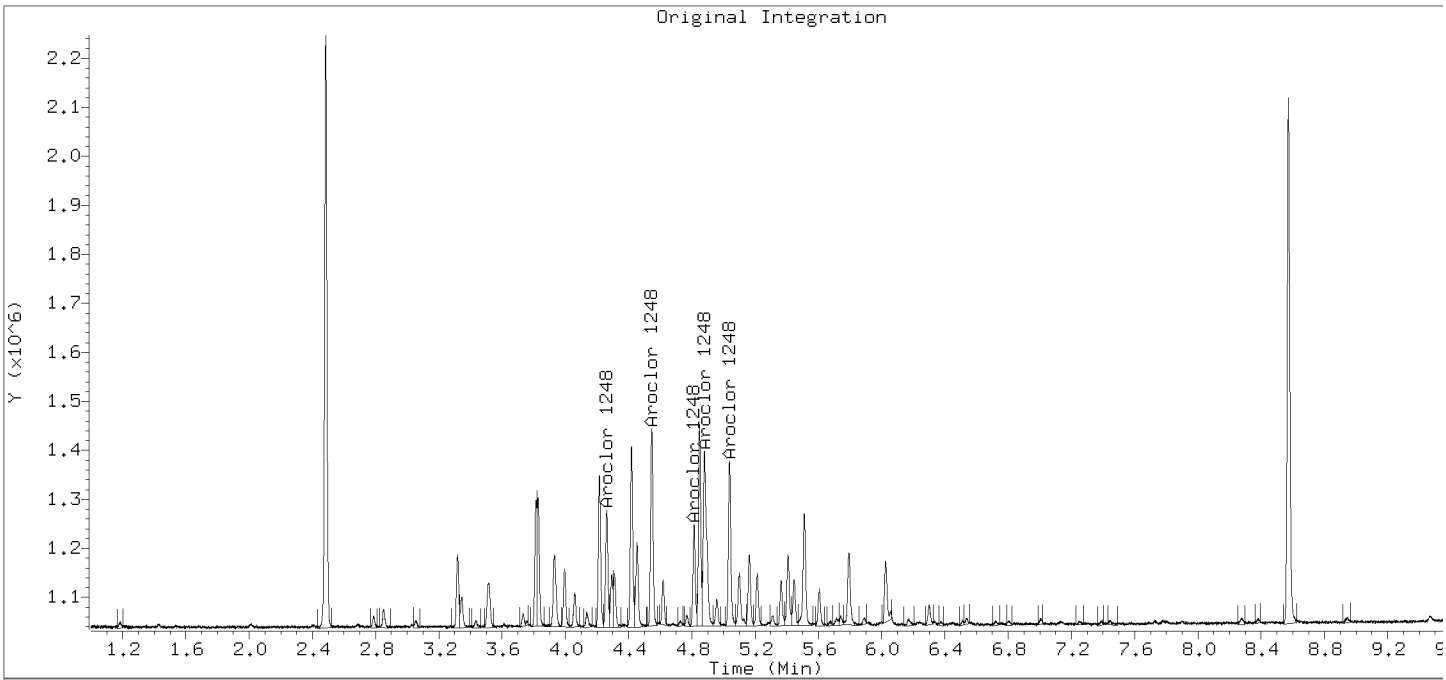
Operator: BLM

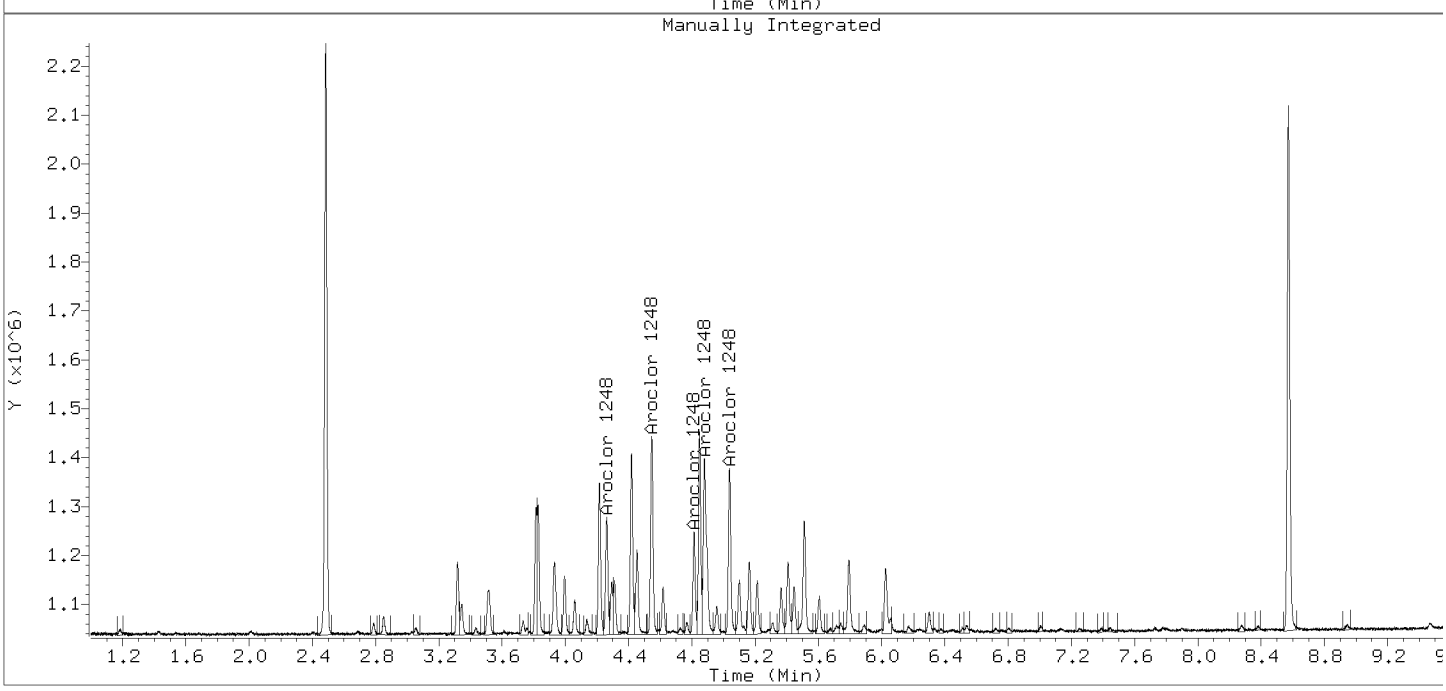
Column phase: ZB-1ms

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

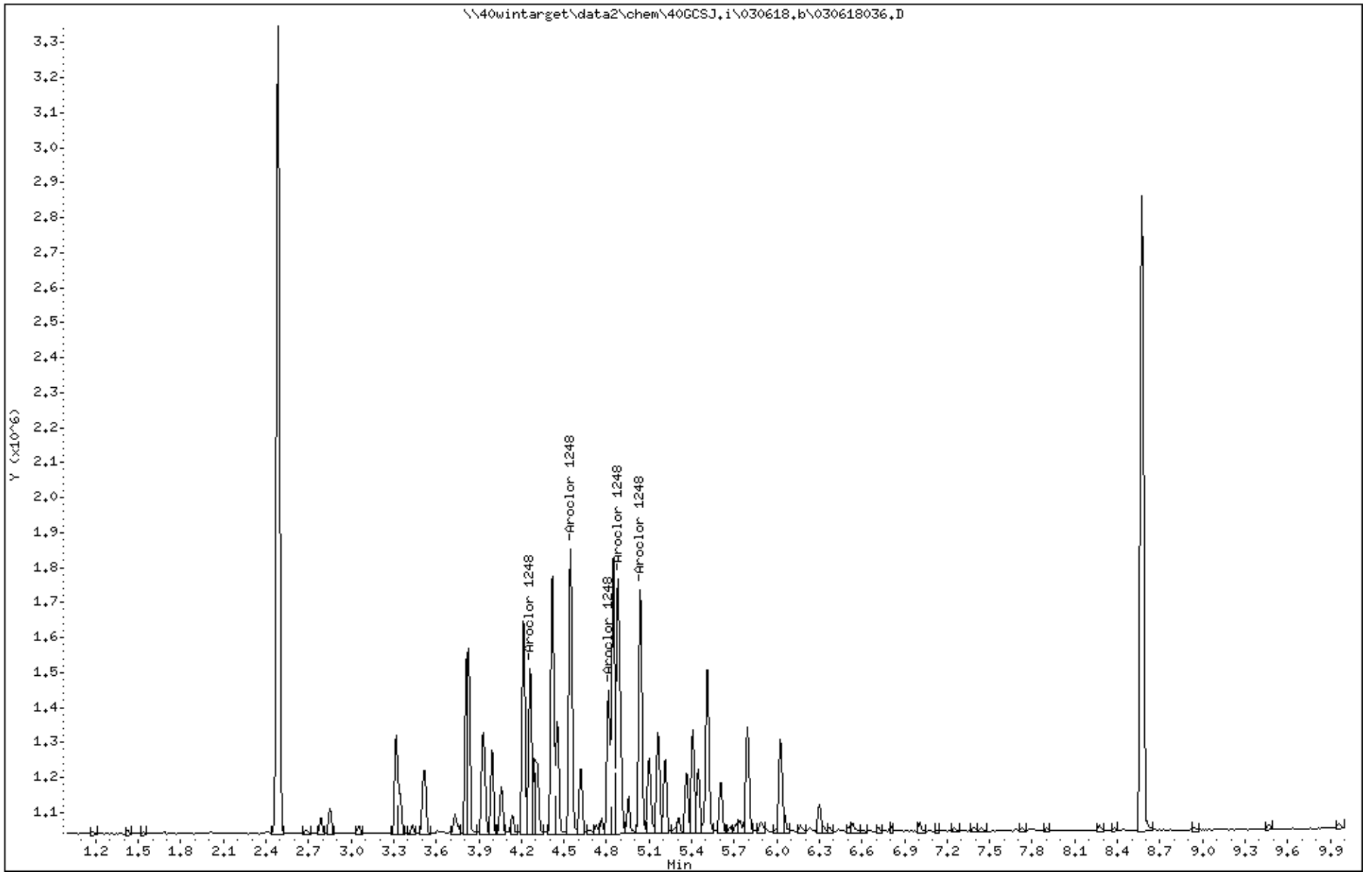
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

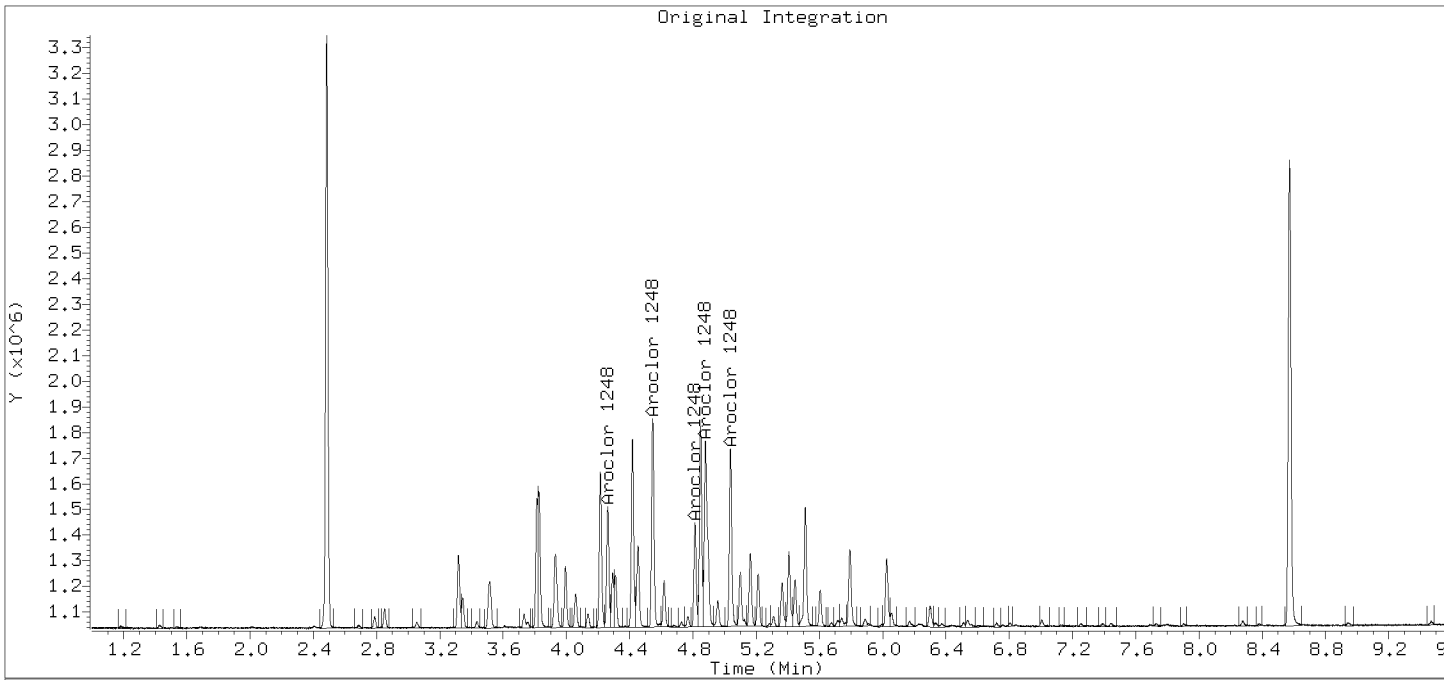
Operator: BLM

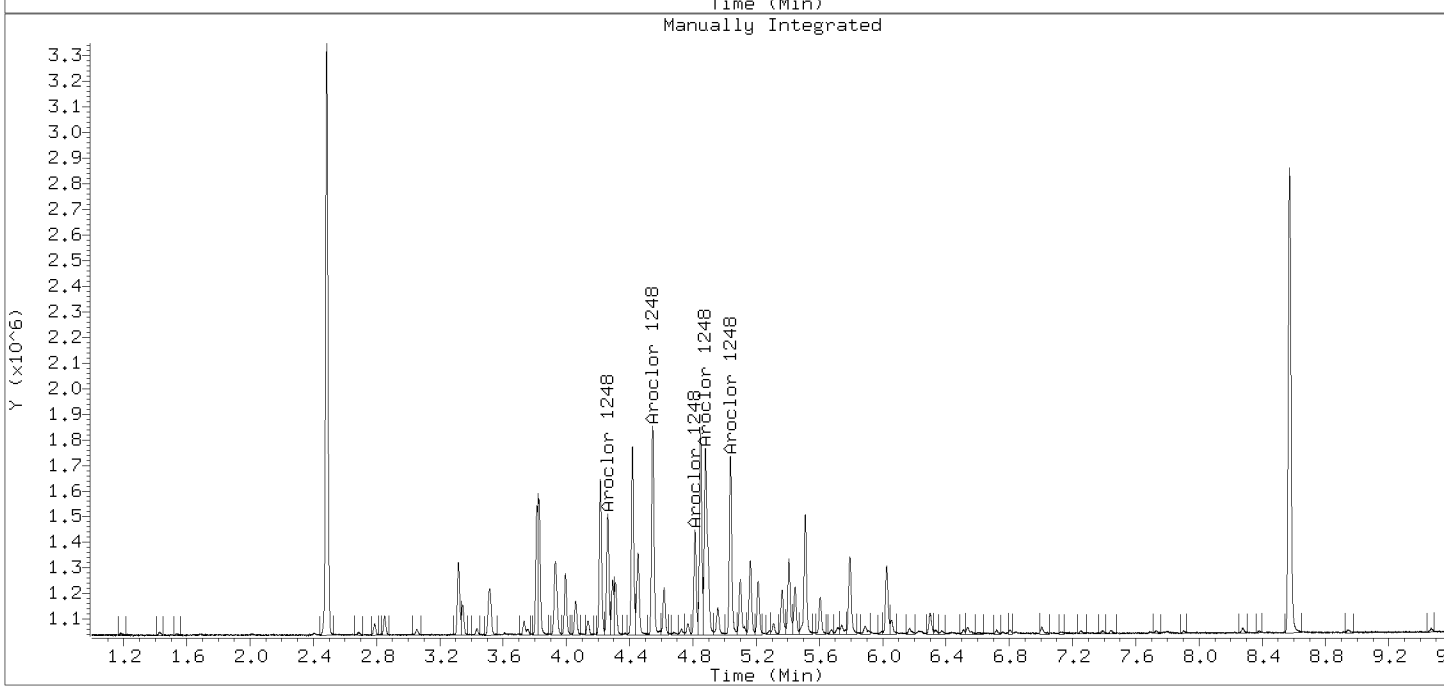
Column phase: ZB-1ms

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

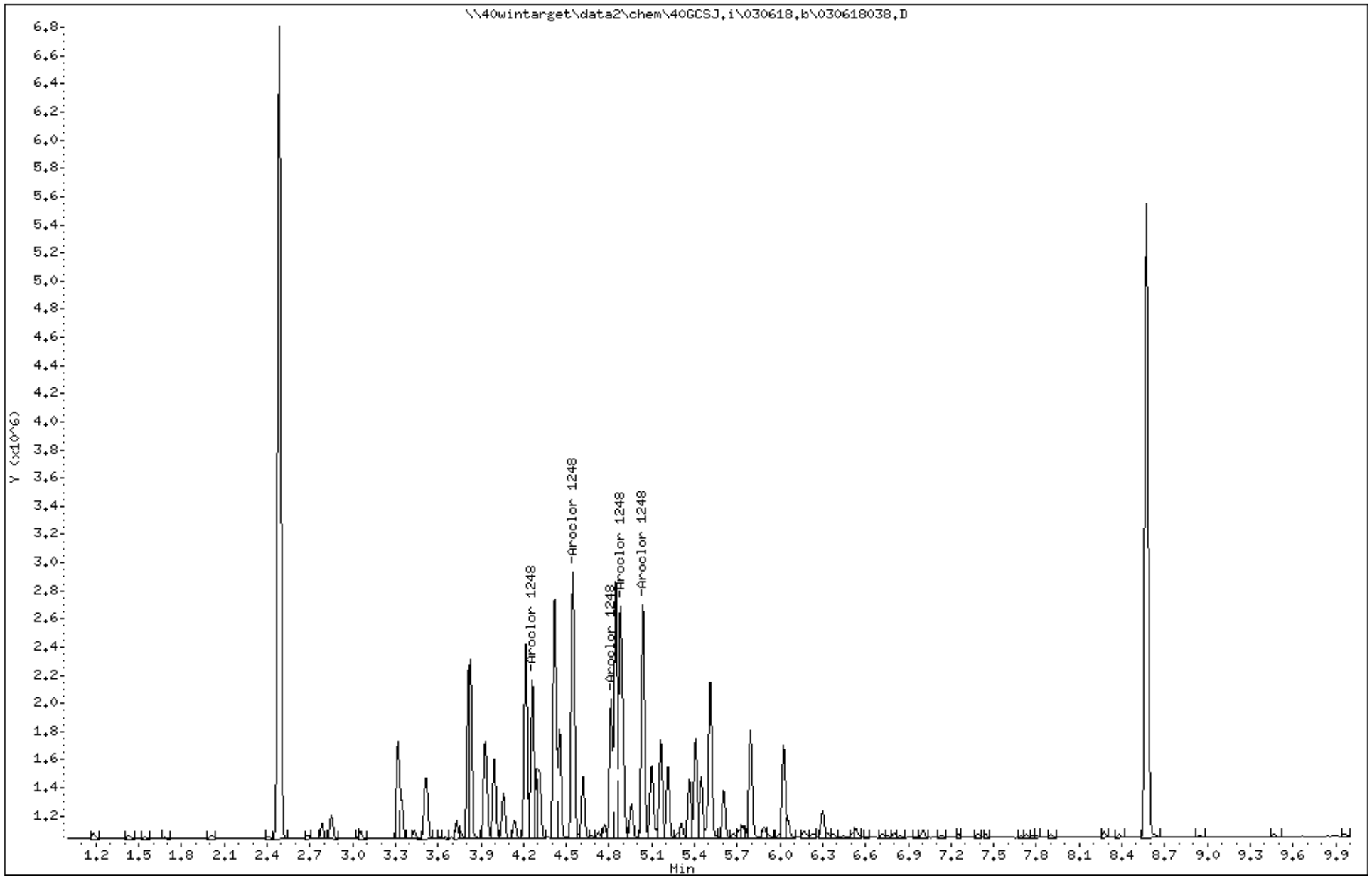
M - Compound response manually integrated.

Review Codes Legend

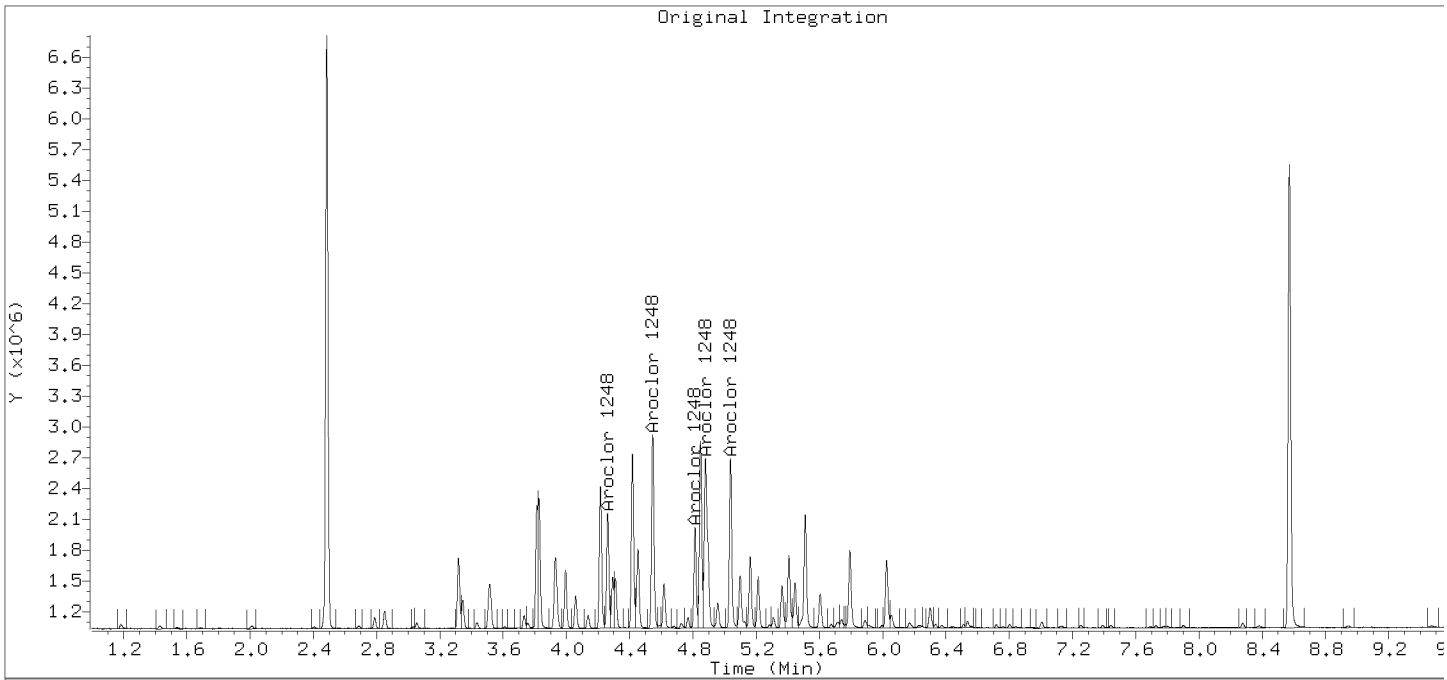
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

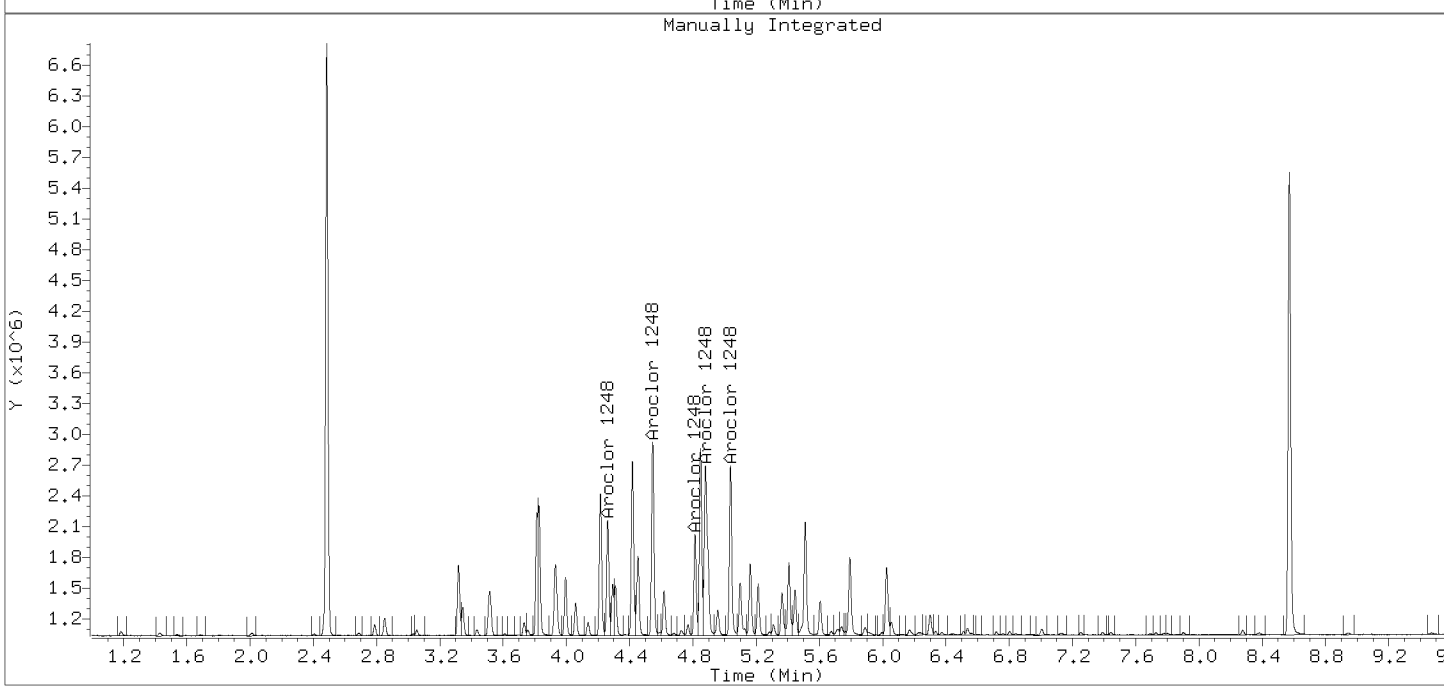
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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

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SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

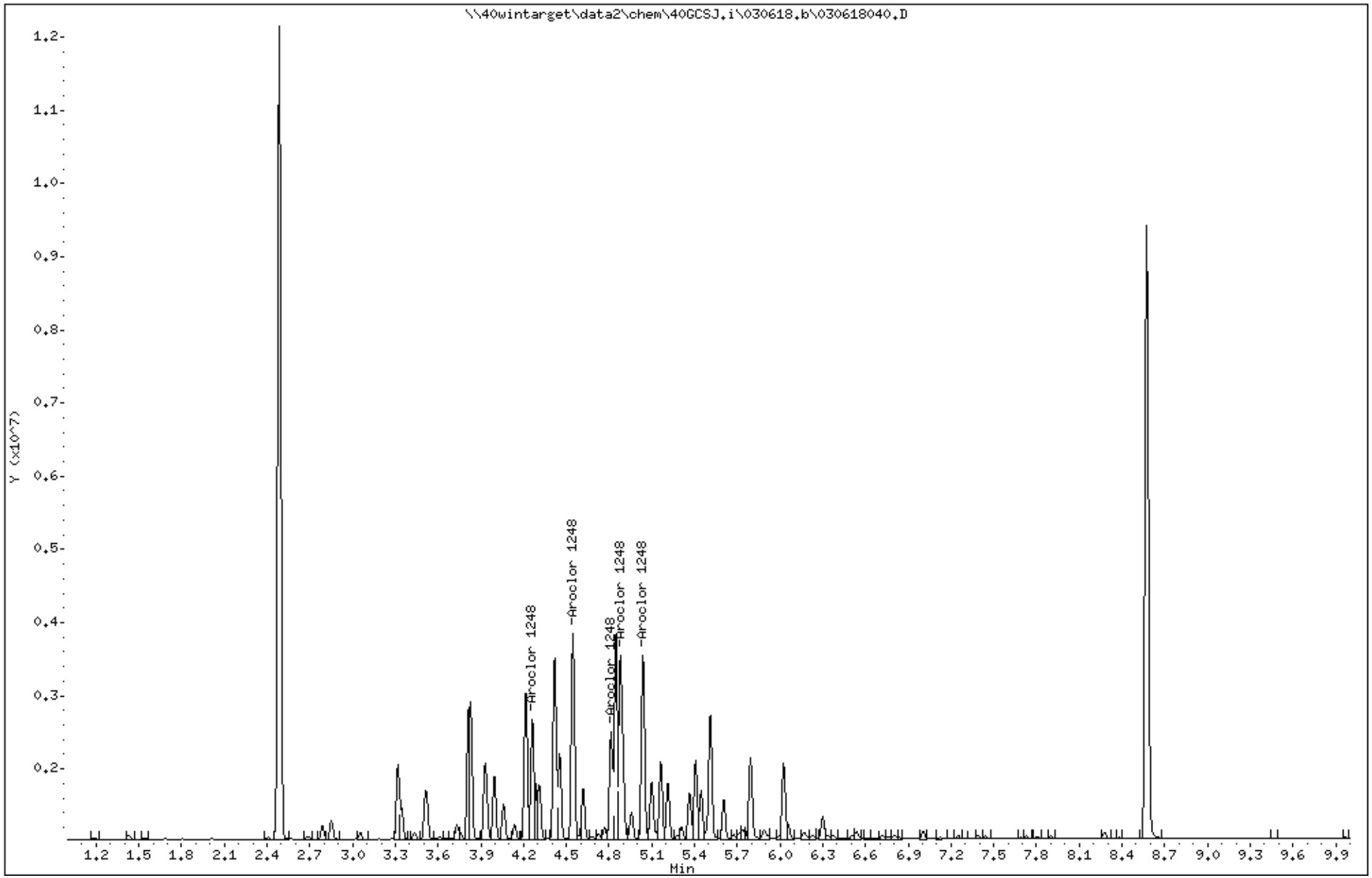
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

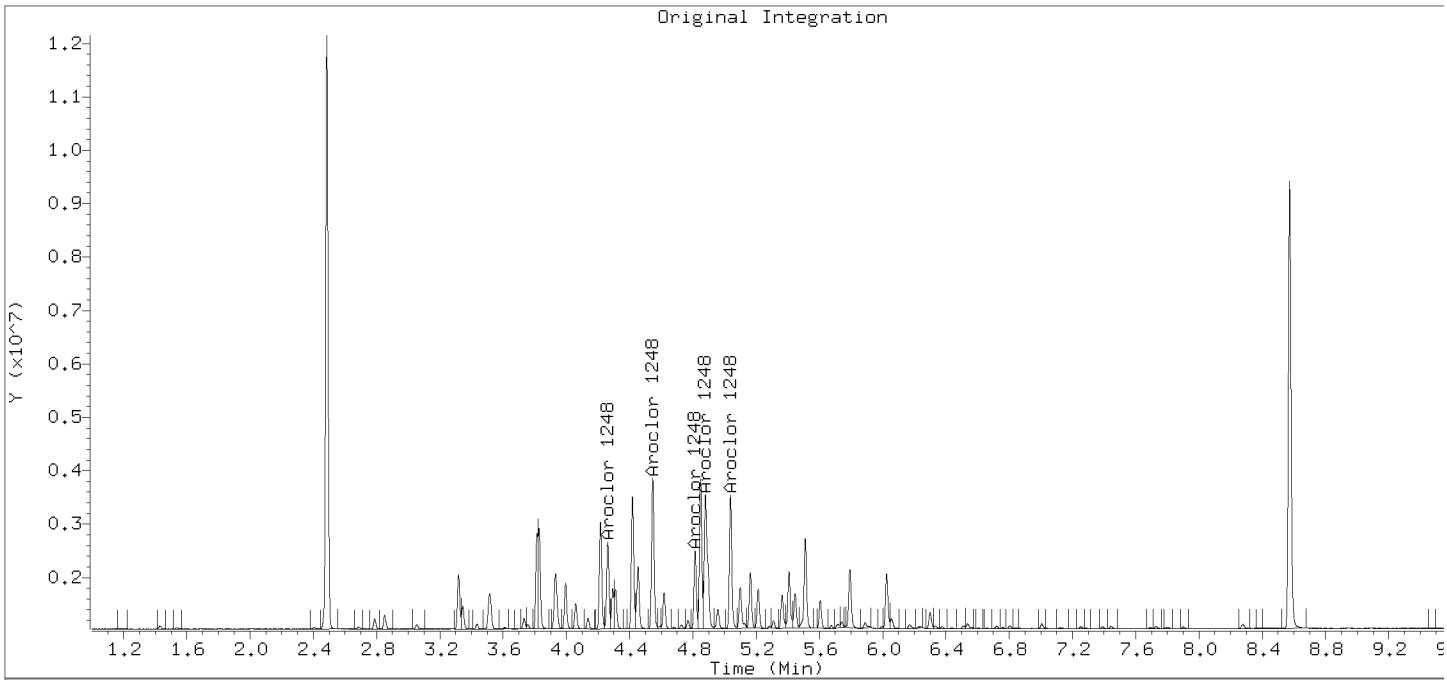
Operator: BLM

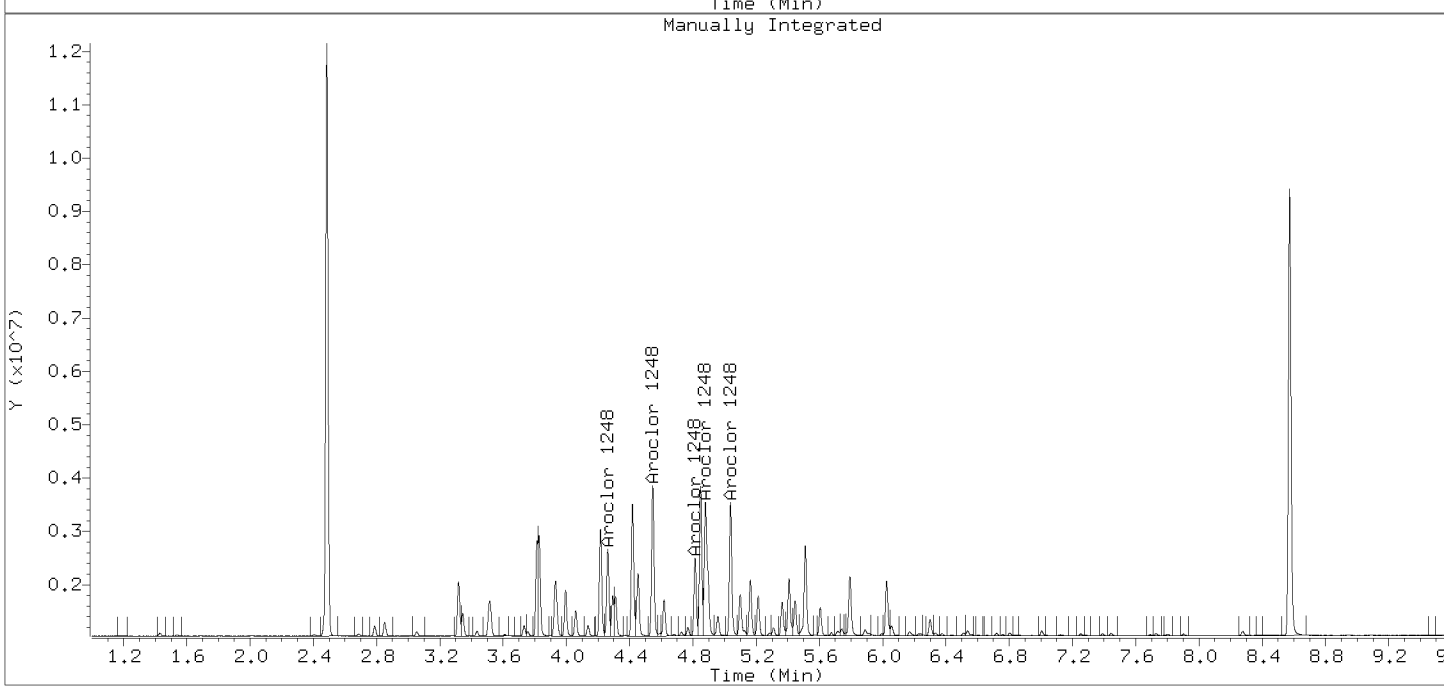
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

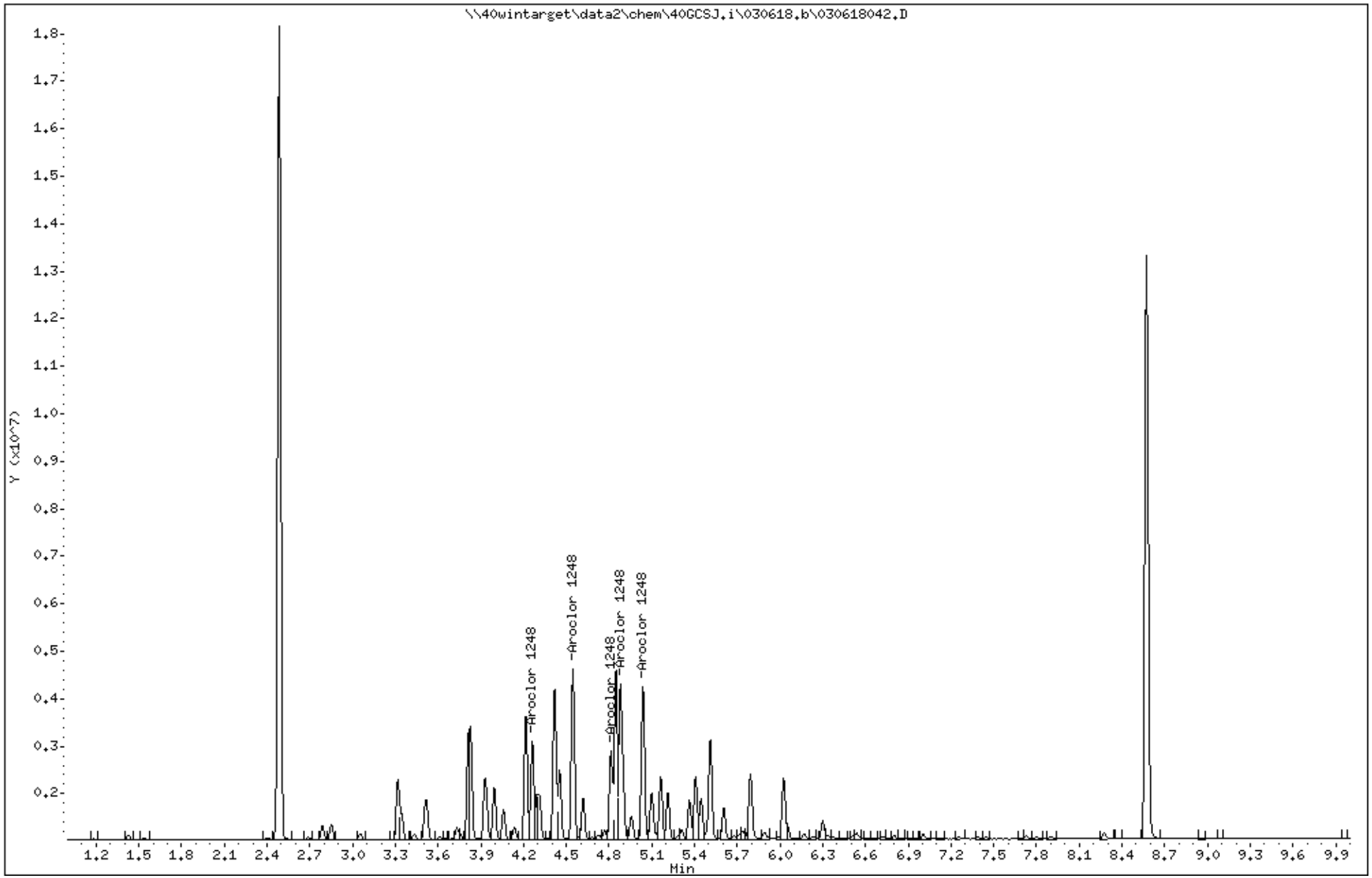
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

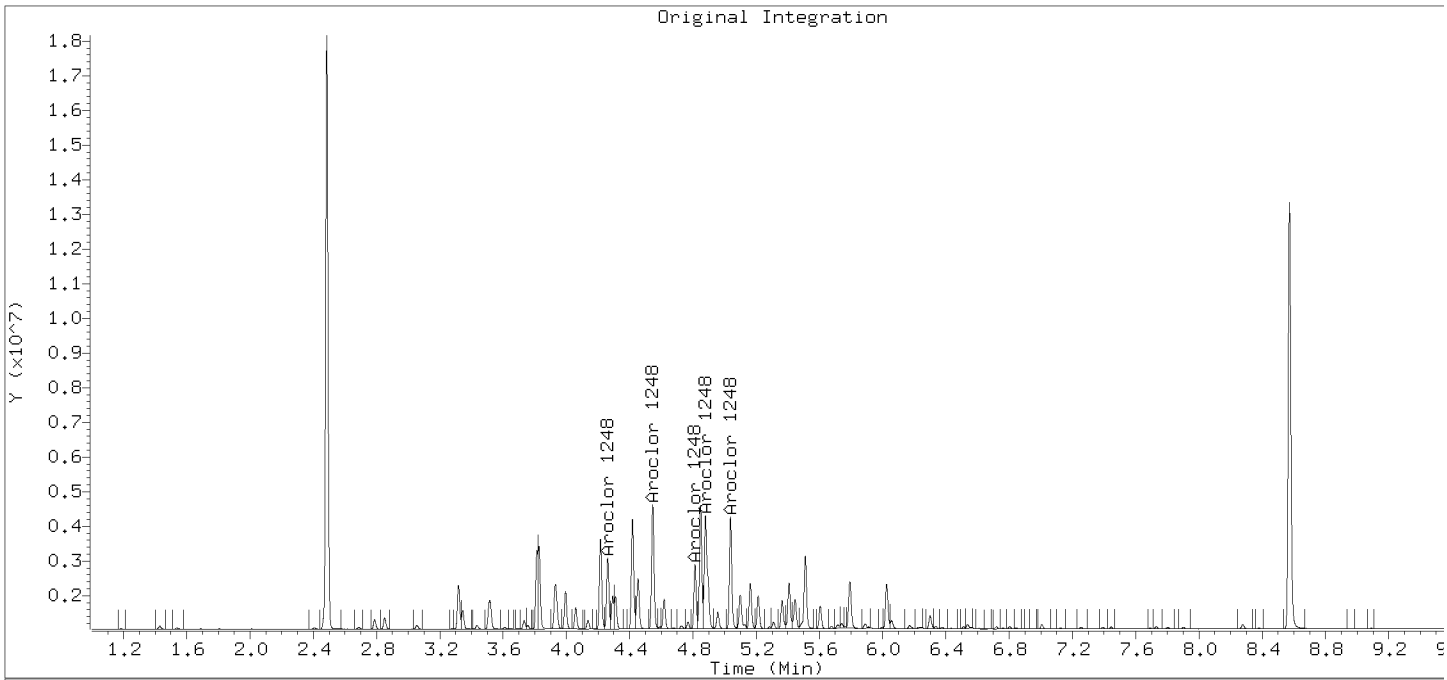
Operator: BLM

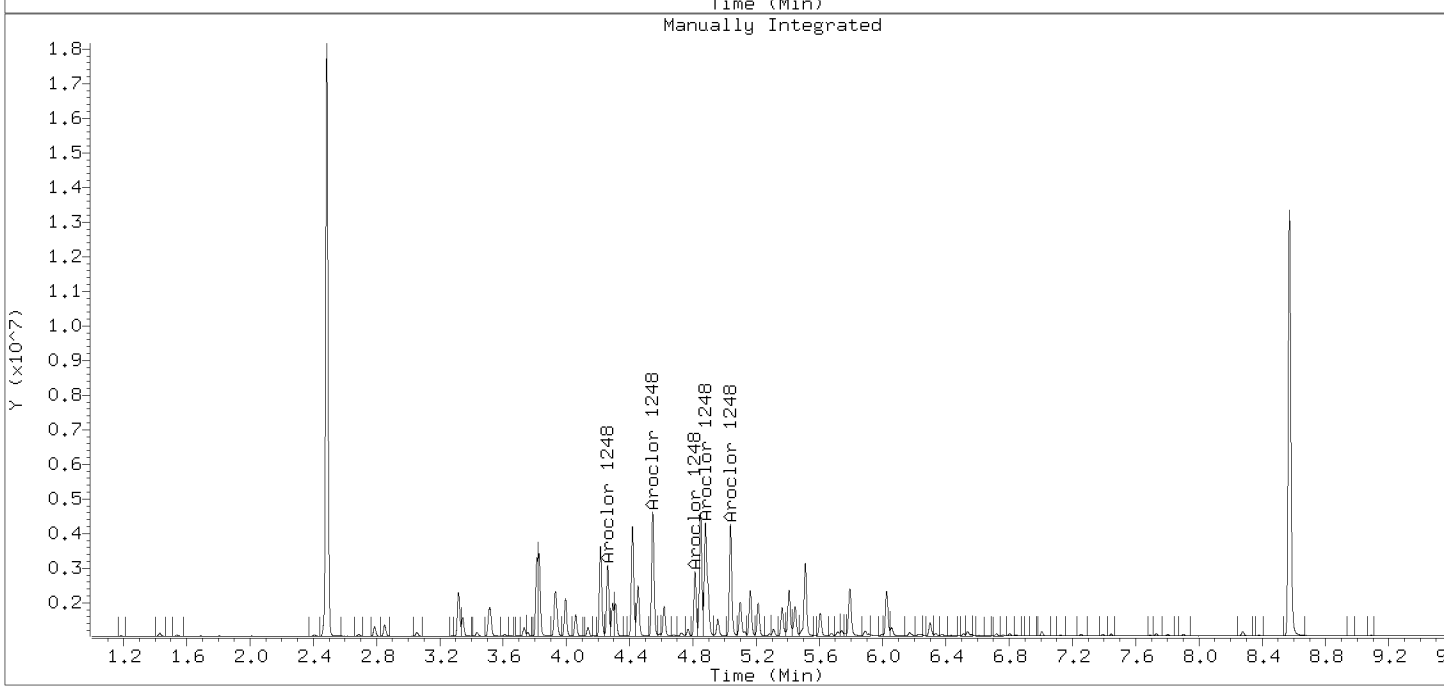
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D

Date : 06-MAR-2018 16:57

Client ID: 1254-CAL1C

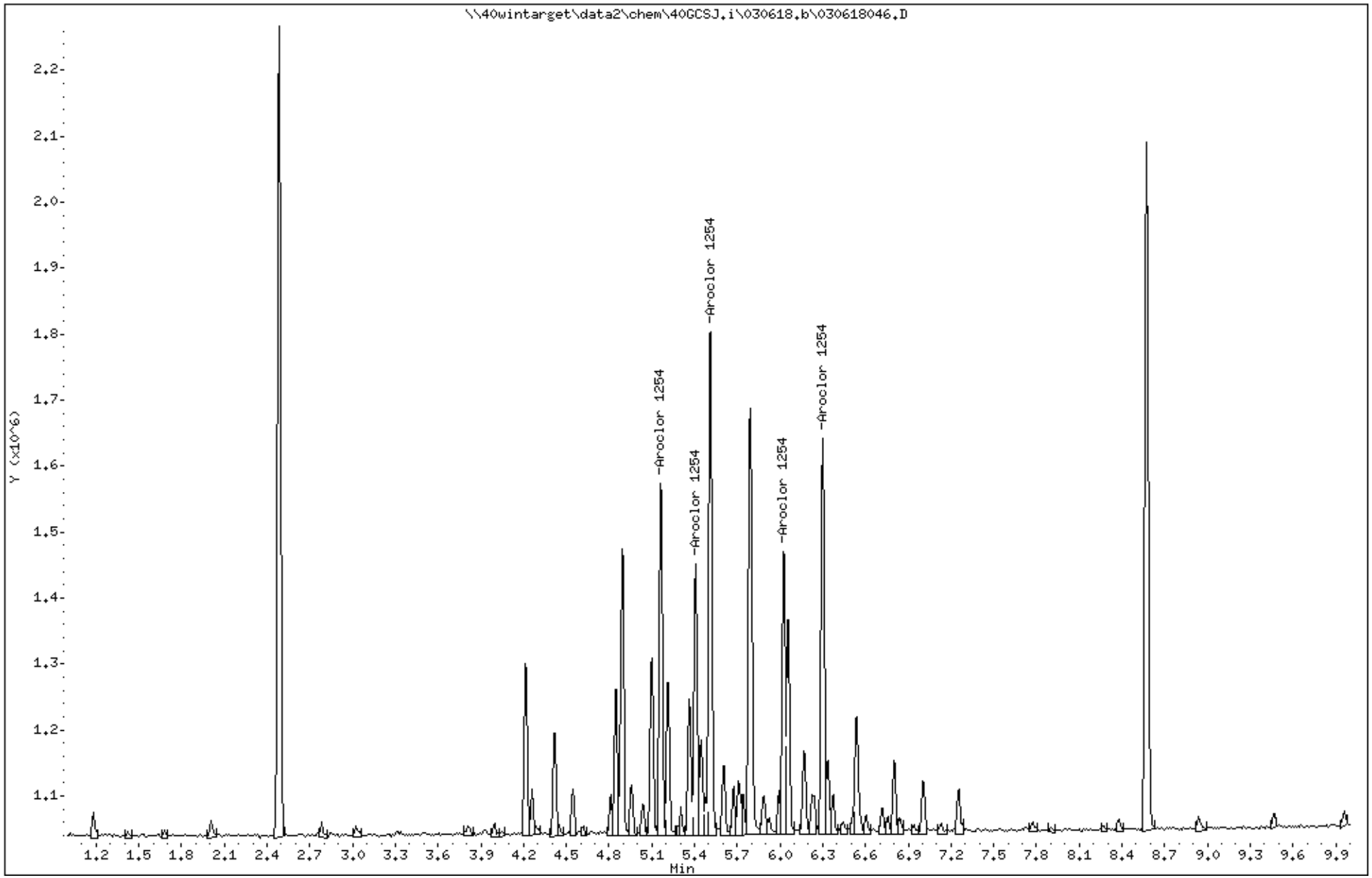
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

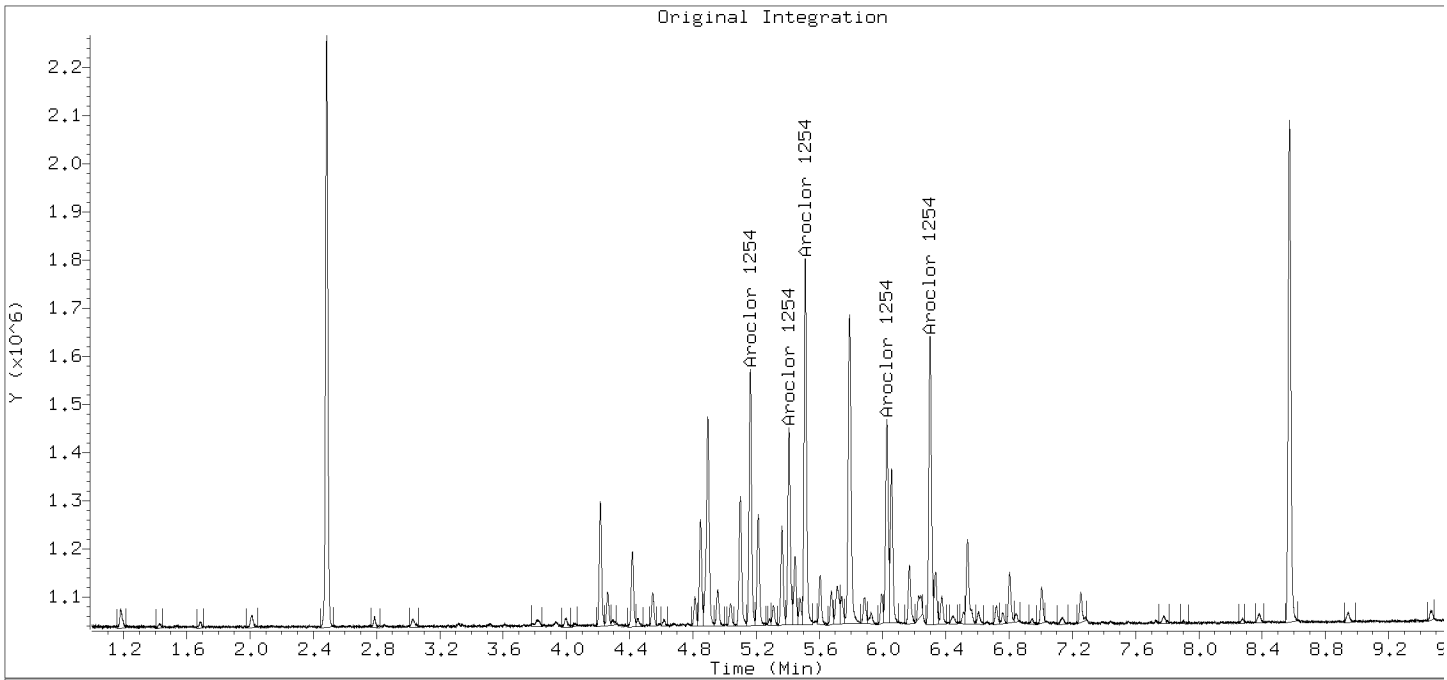
Operator: BLM

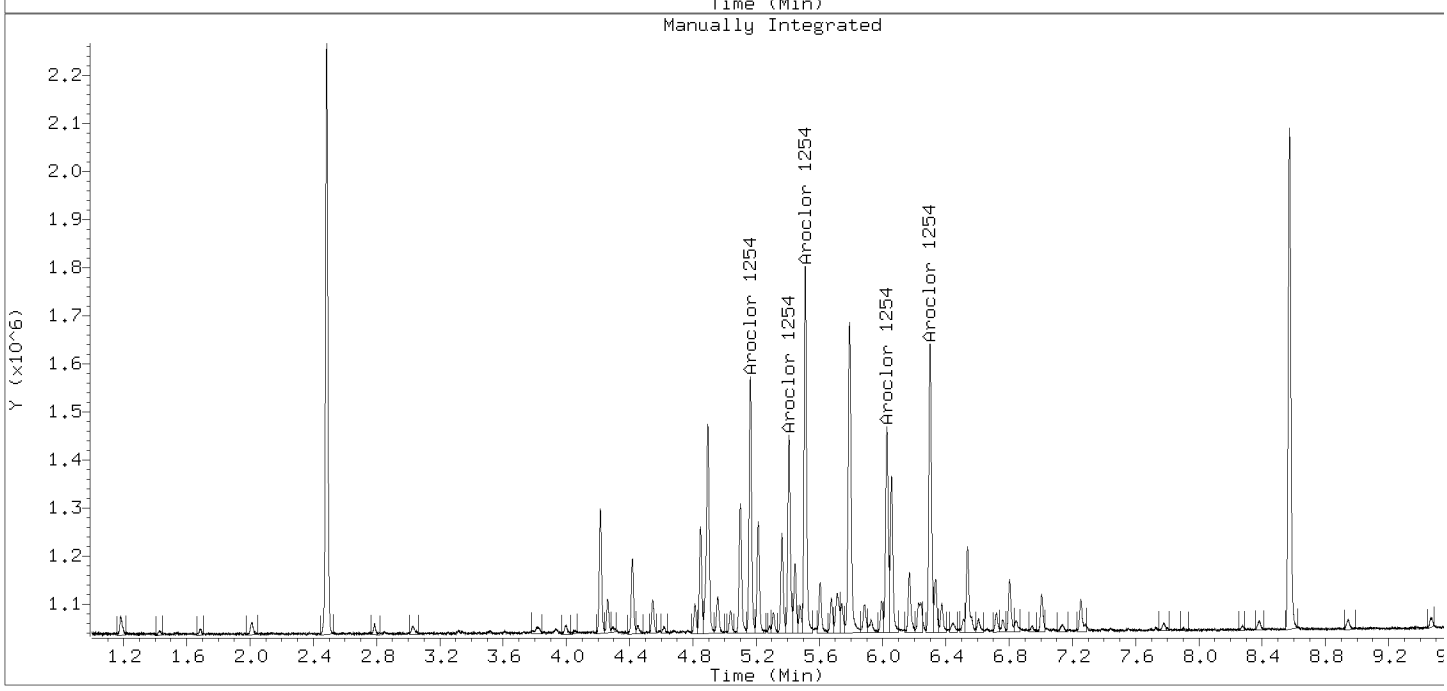
Column phase: ZB-1ms

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.

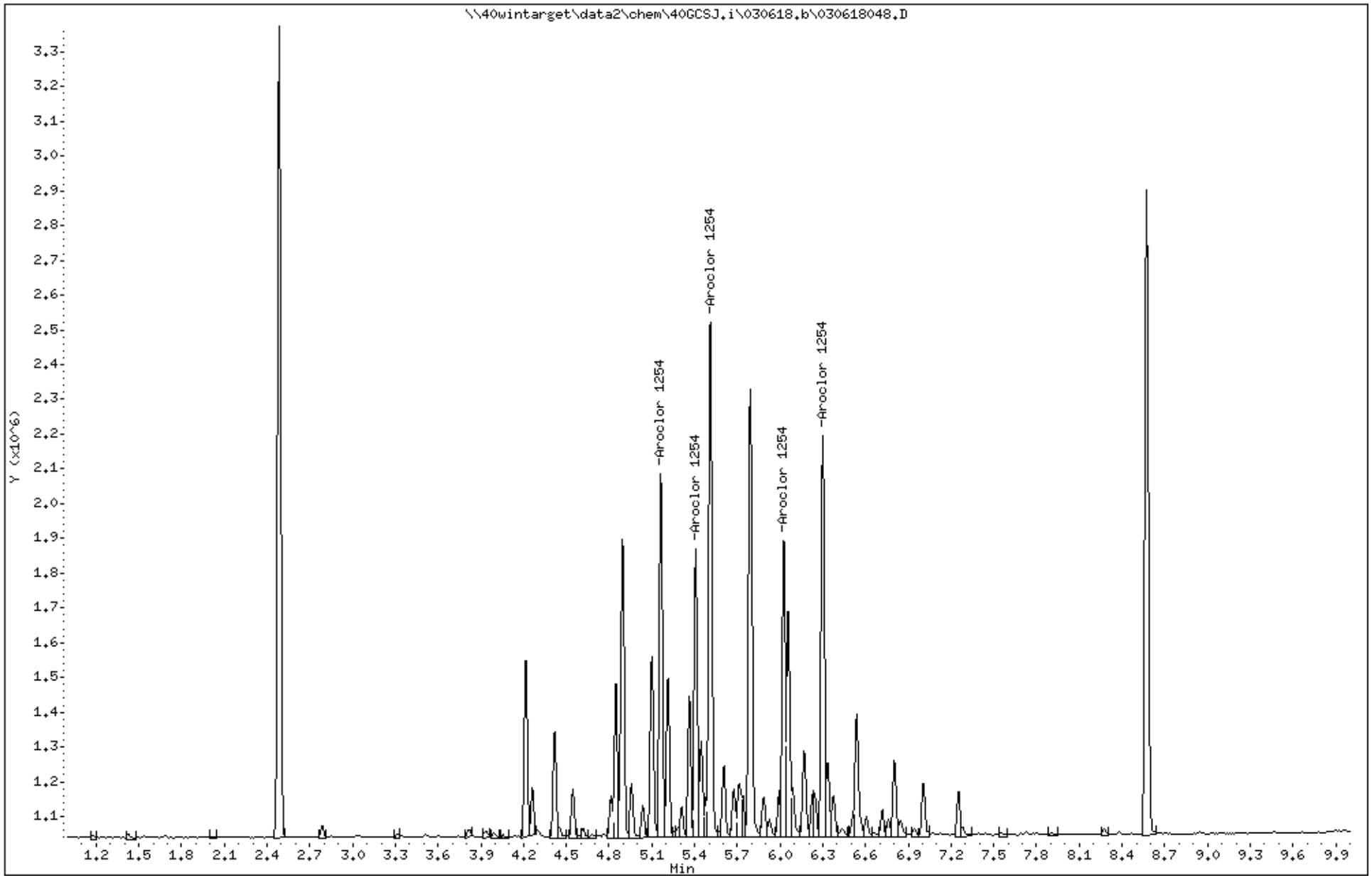
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

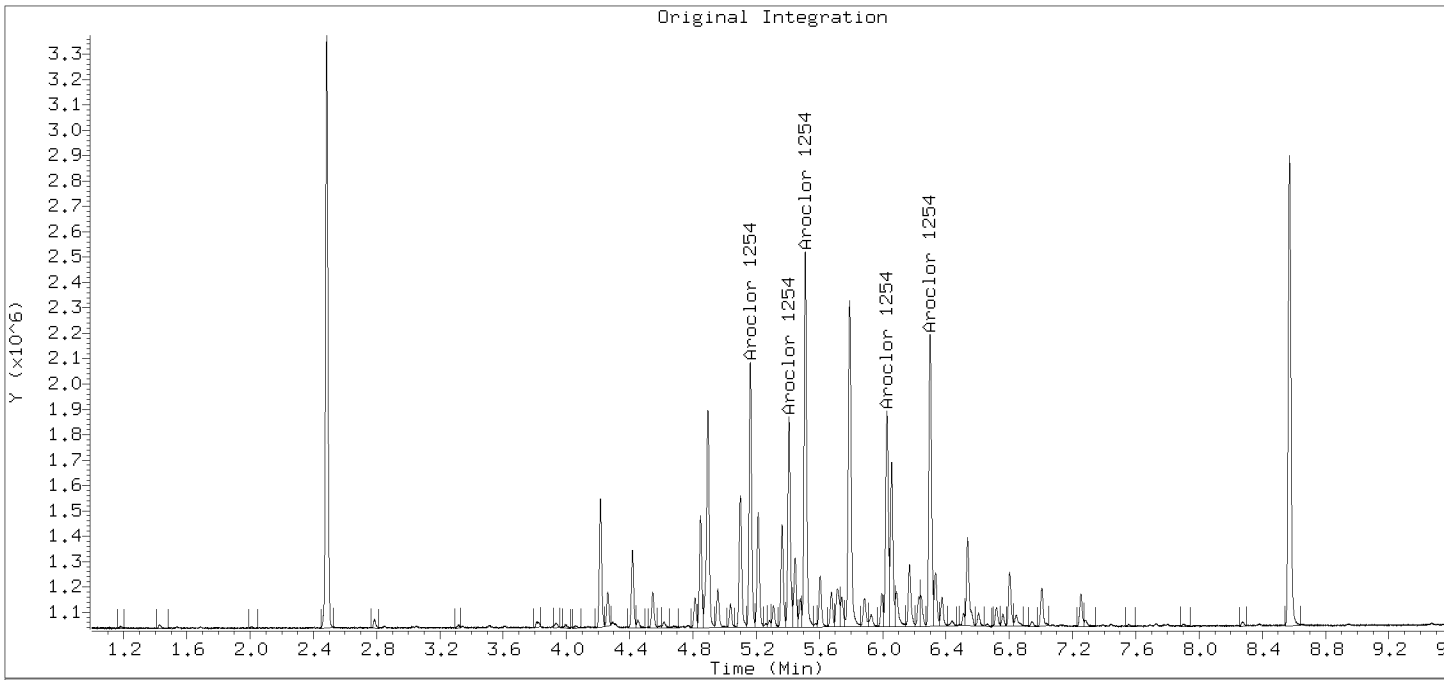
Operator: BLM

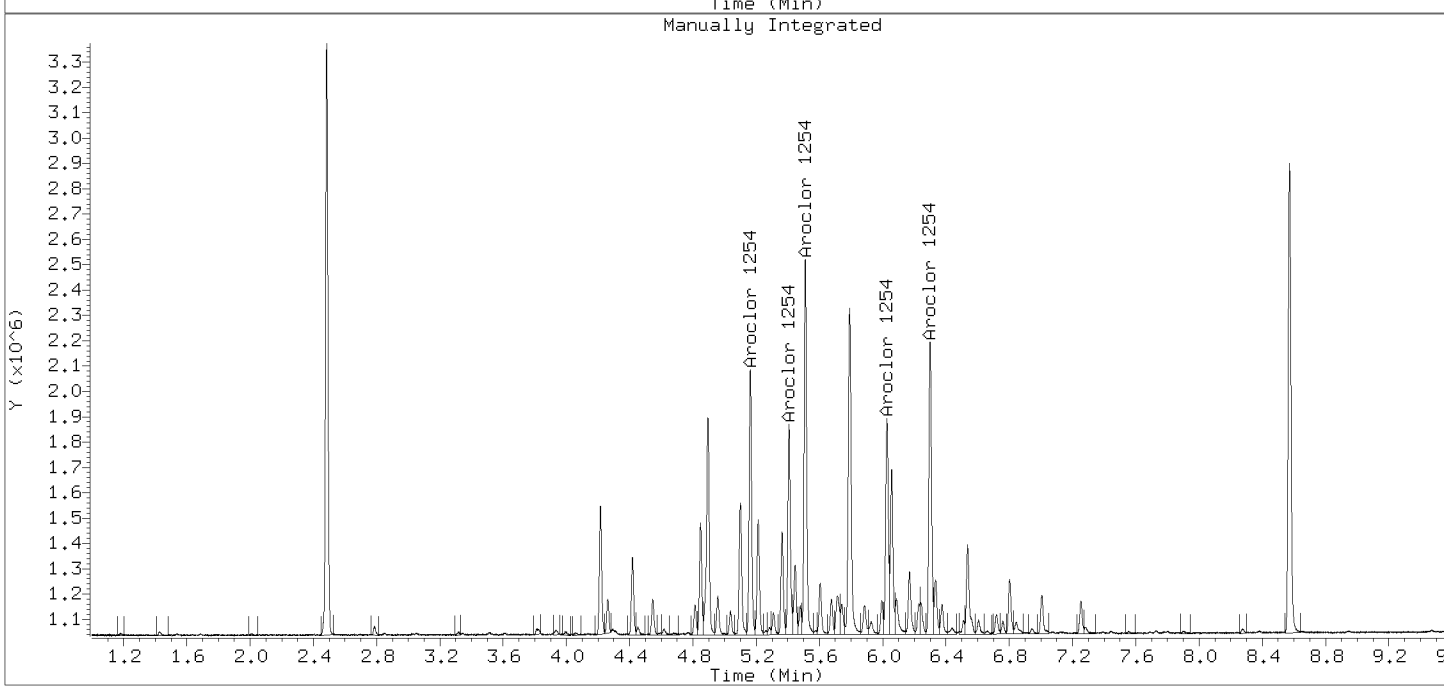
Column phase: ZB-1ms

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

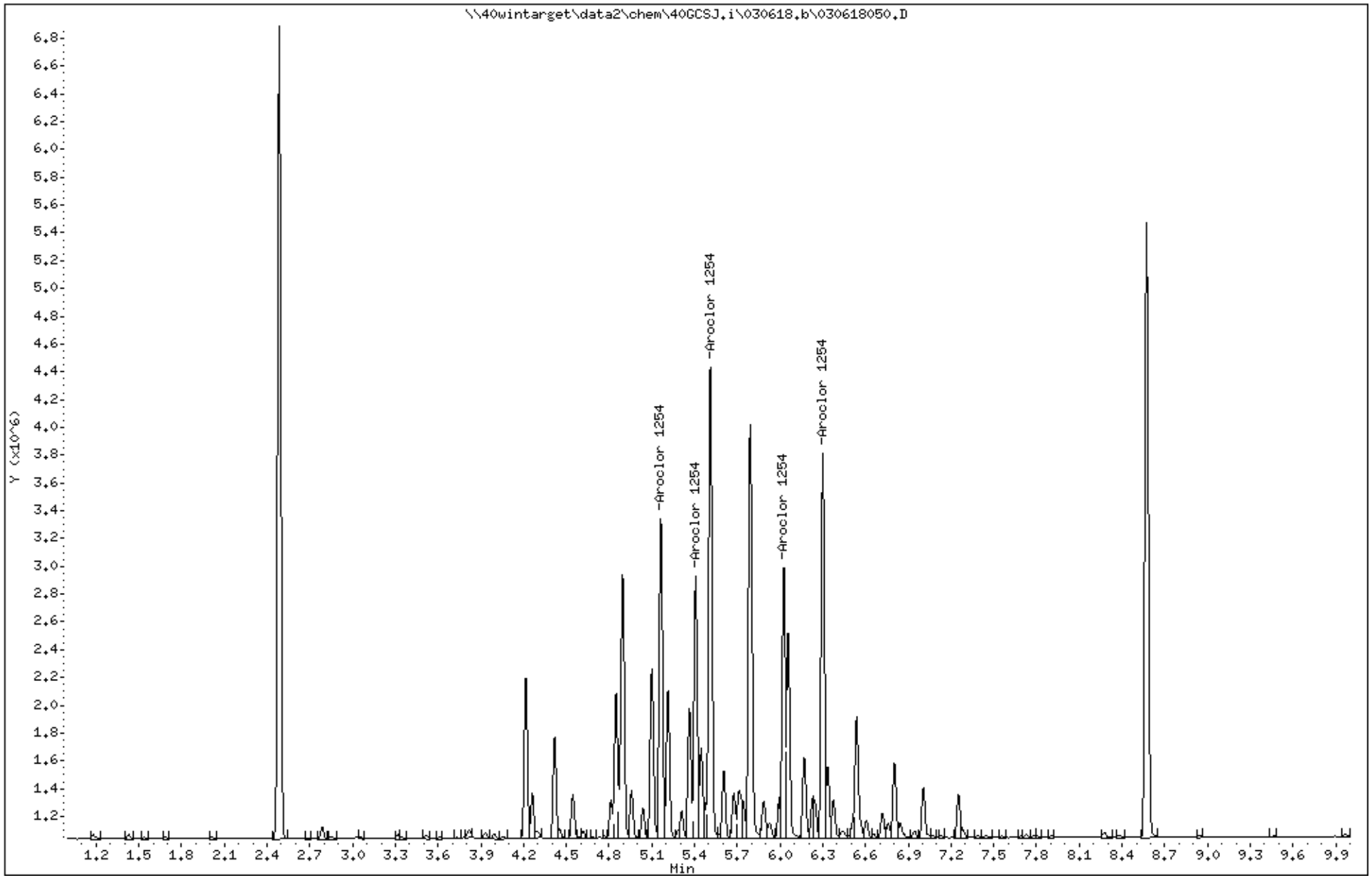
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

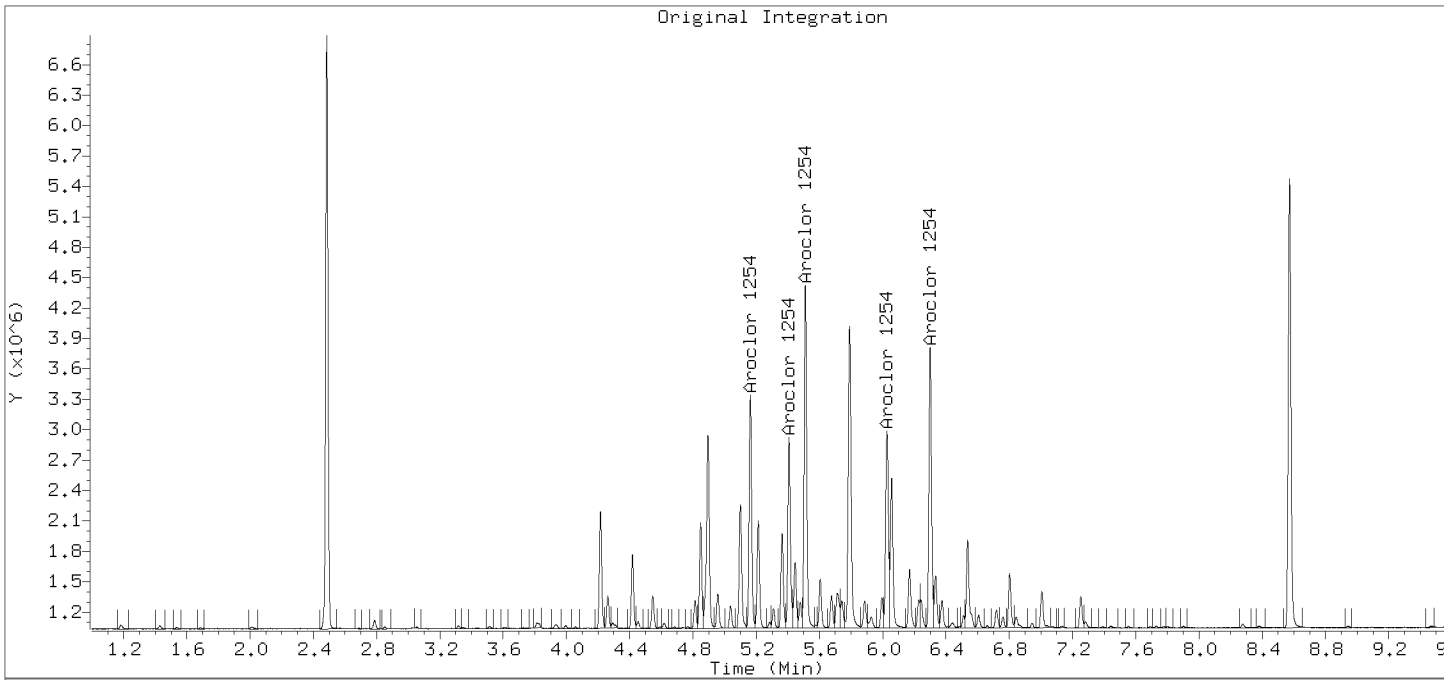
Operator: BLM

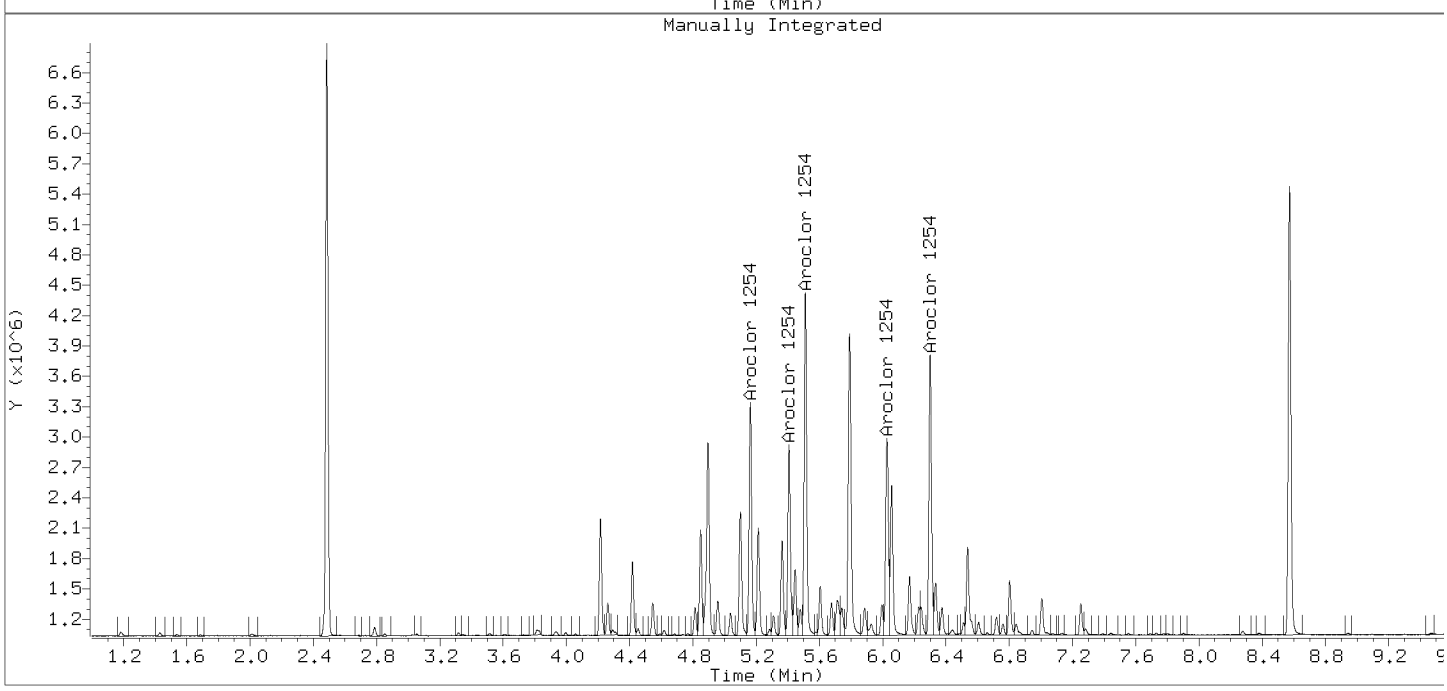
Column phase: ZB-1ms

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.

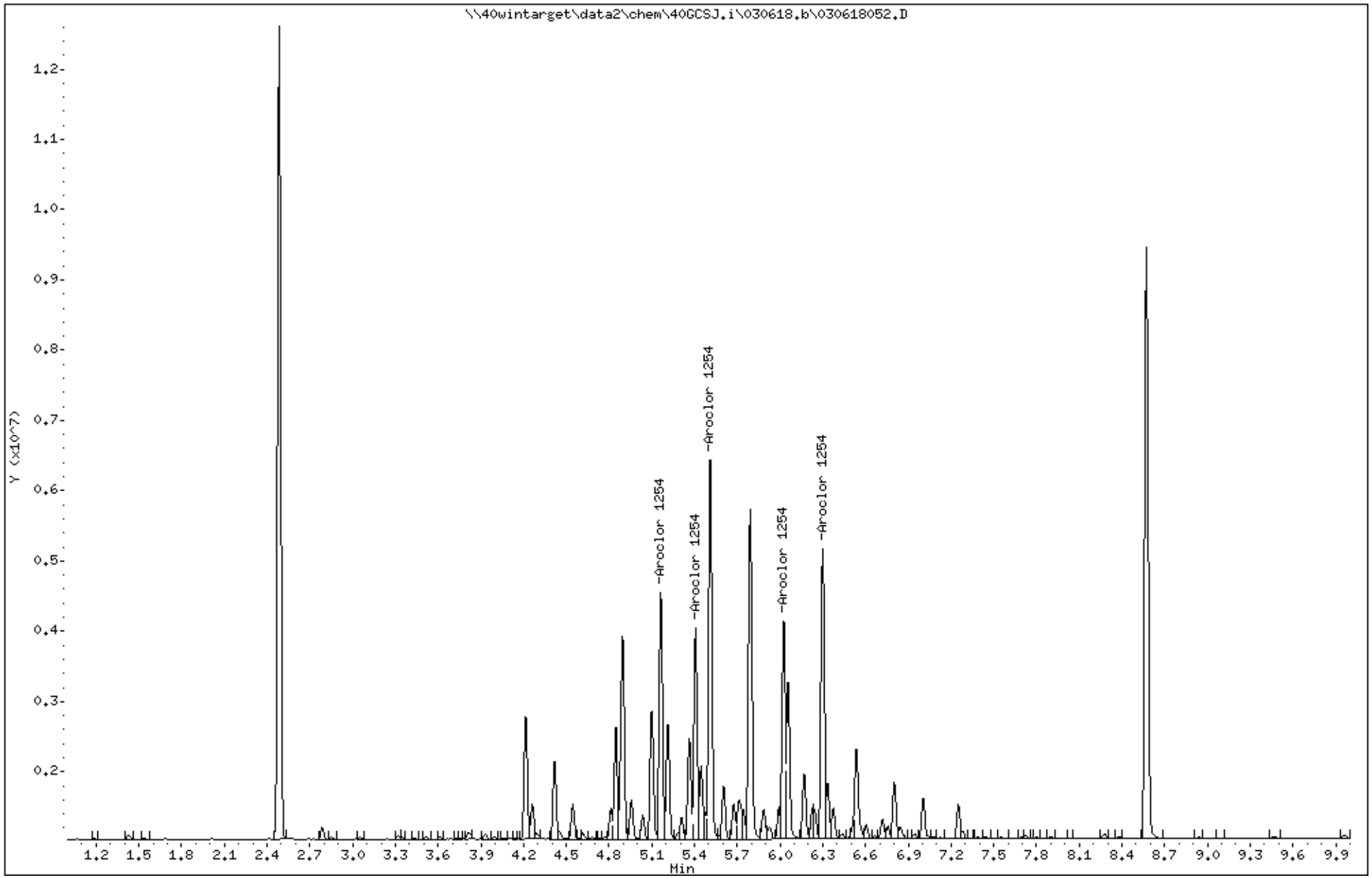
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSJ.i

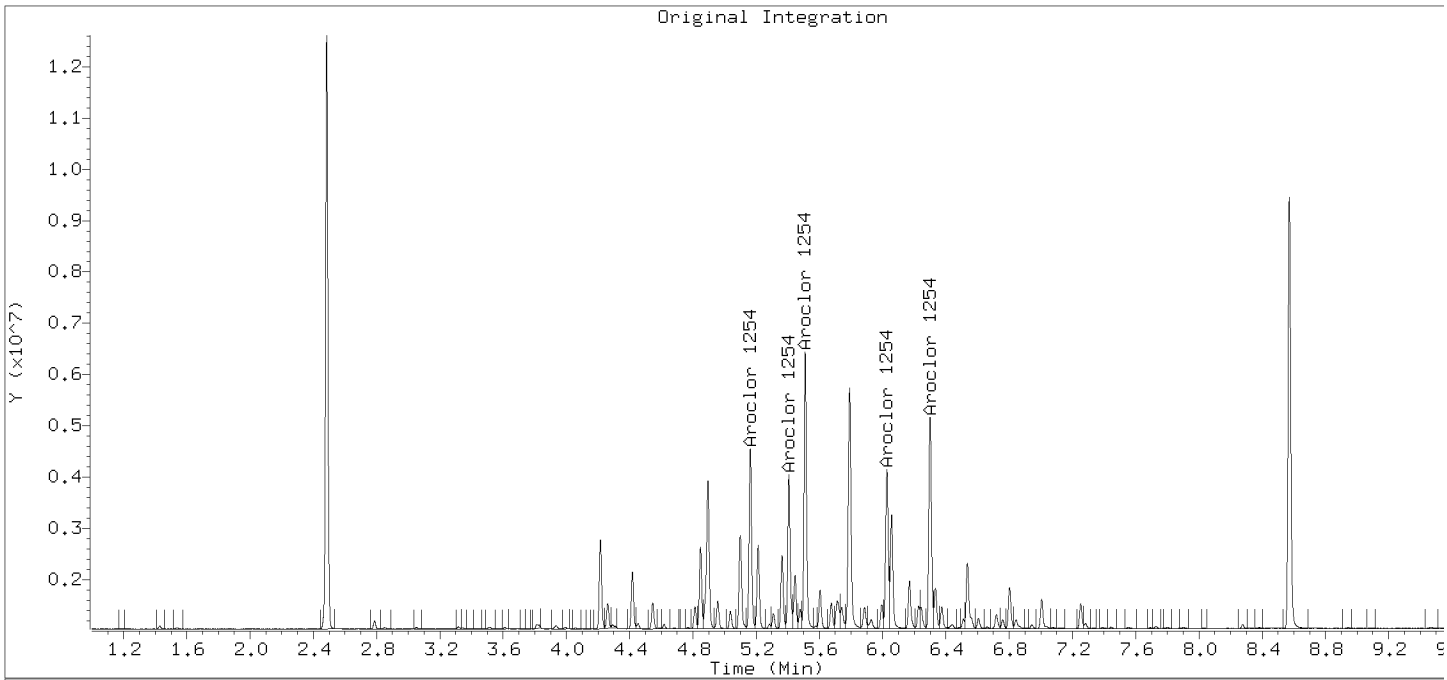
Operator: BLM

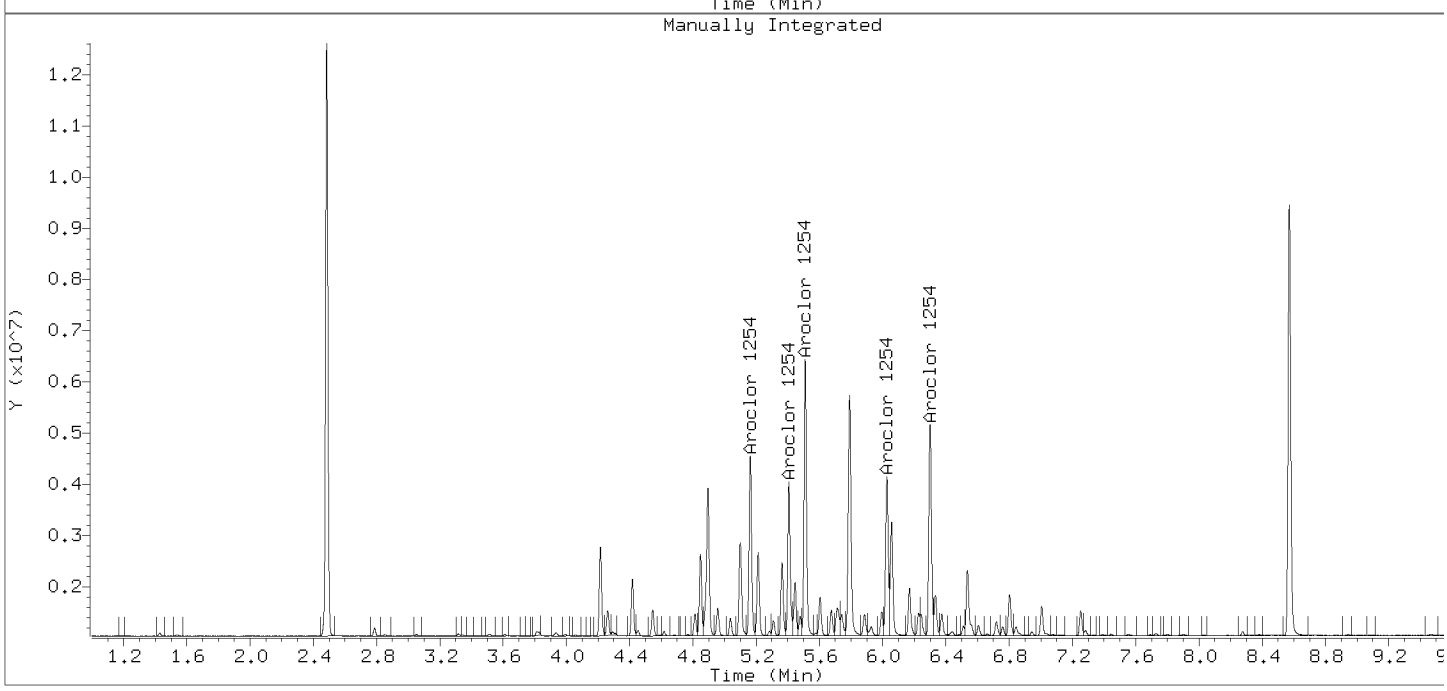
Column phase: ZB-1ms

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

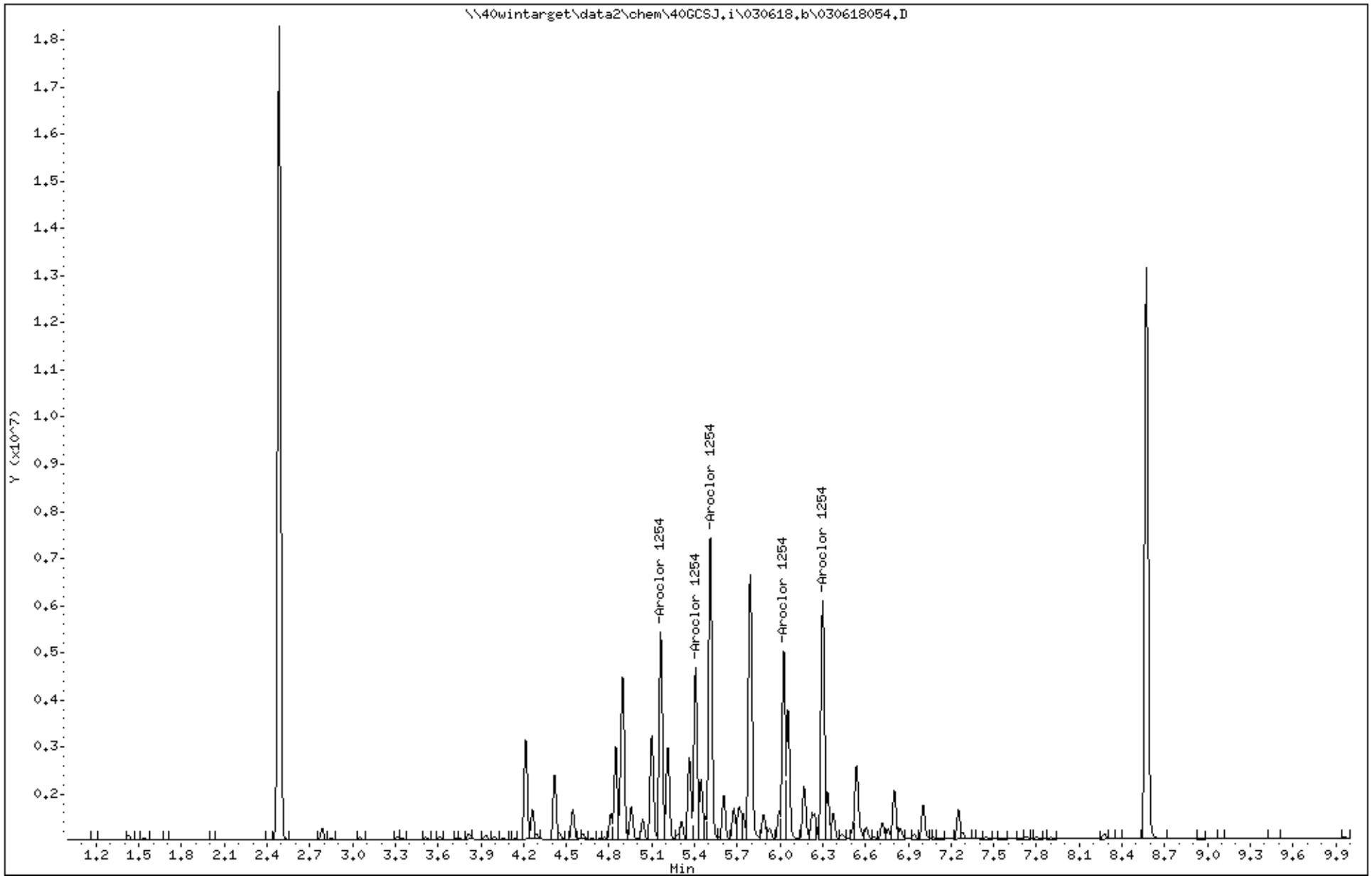
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

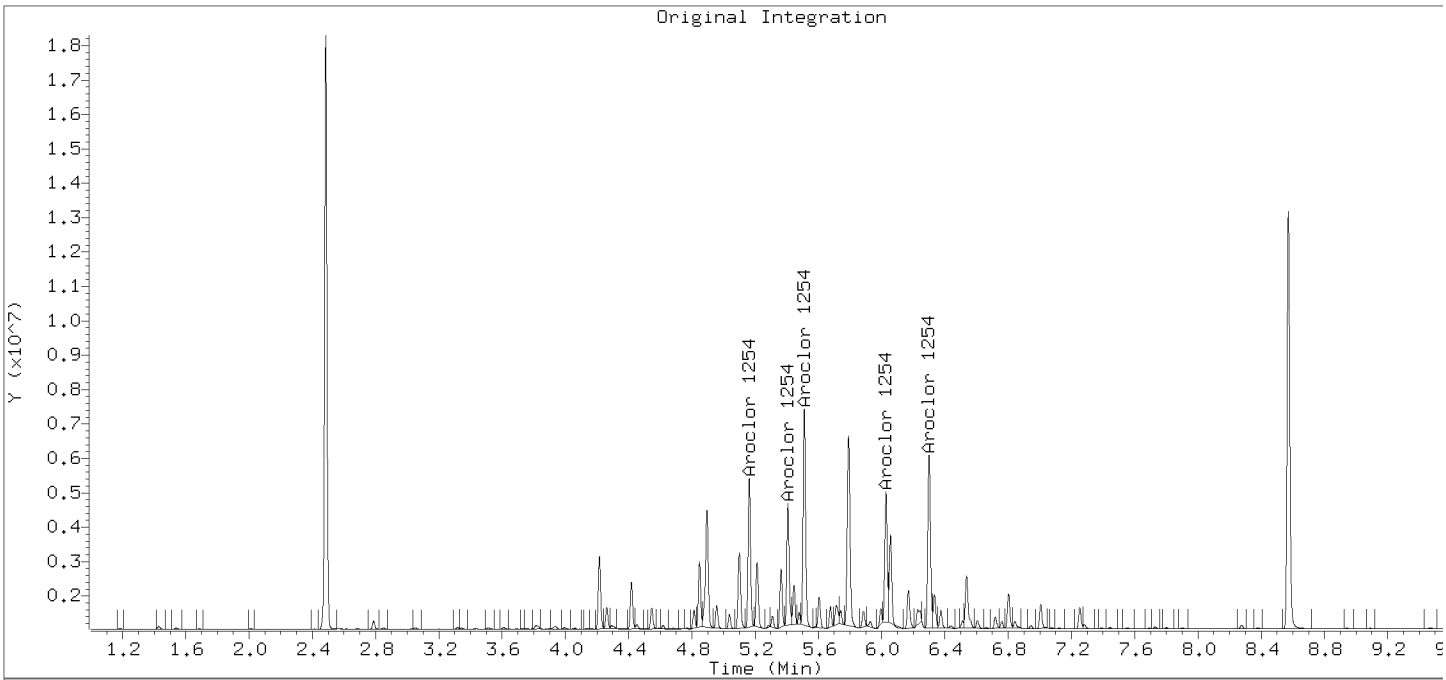
Operator: BLM

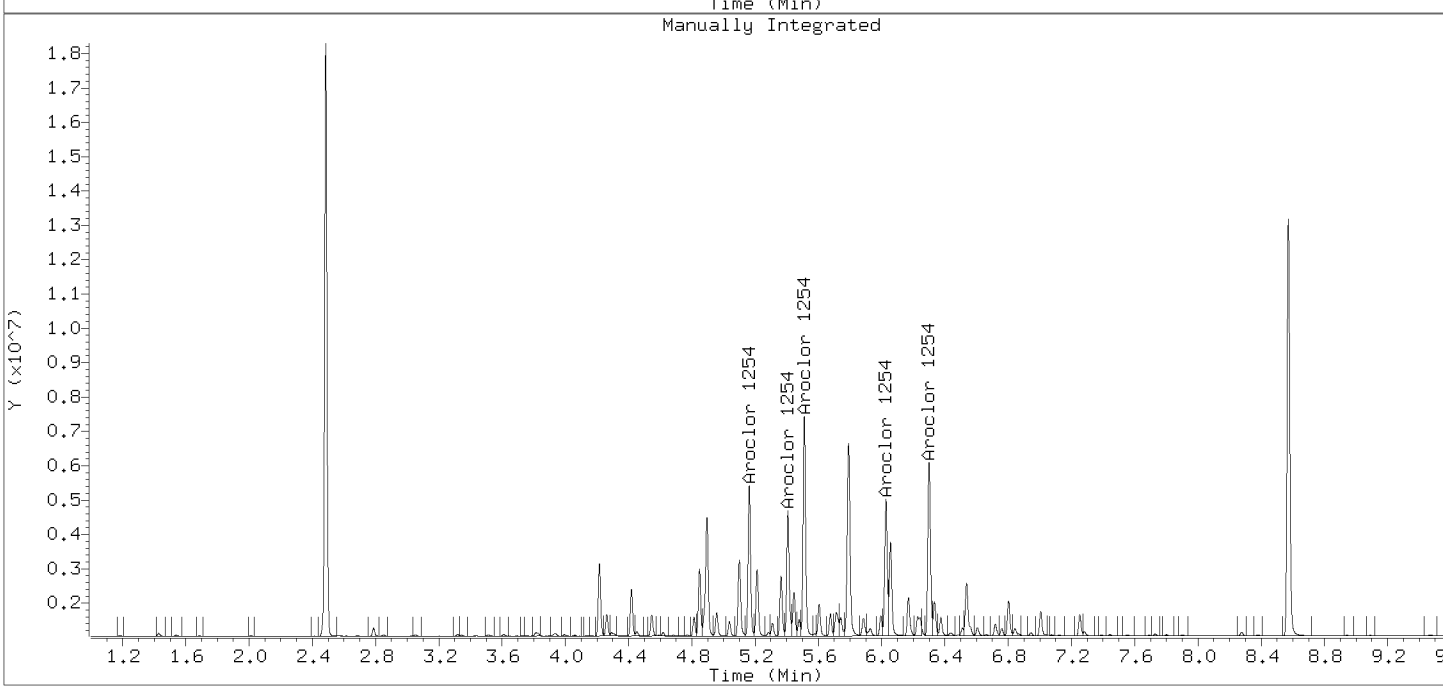
Column phase: ZB-1ms

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

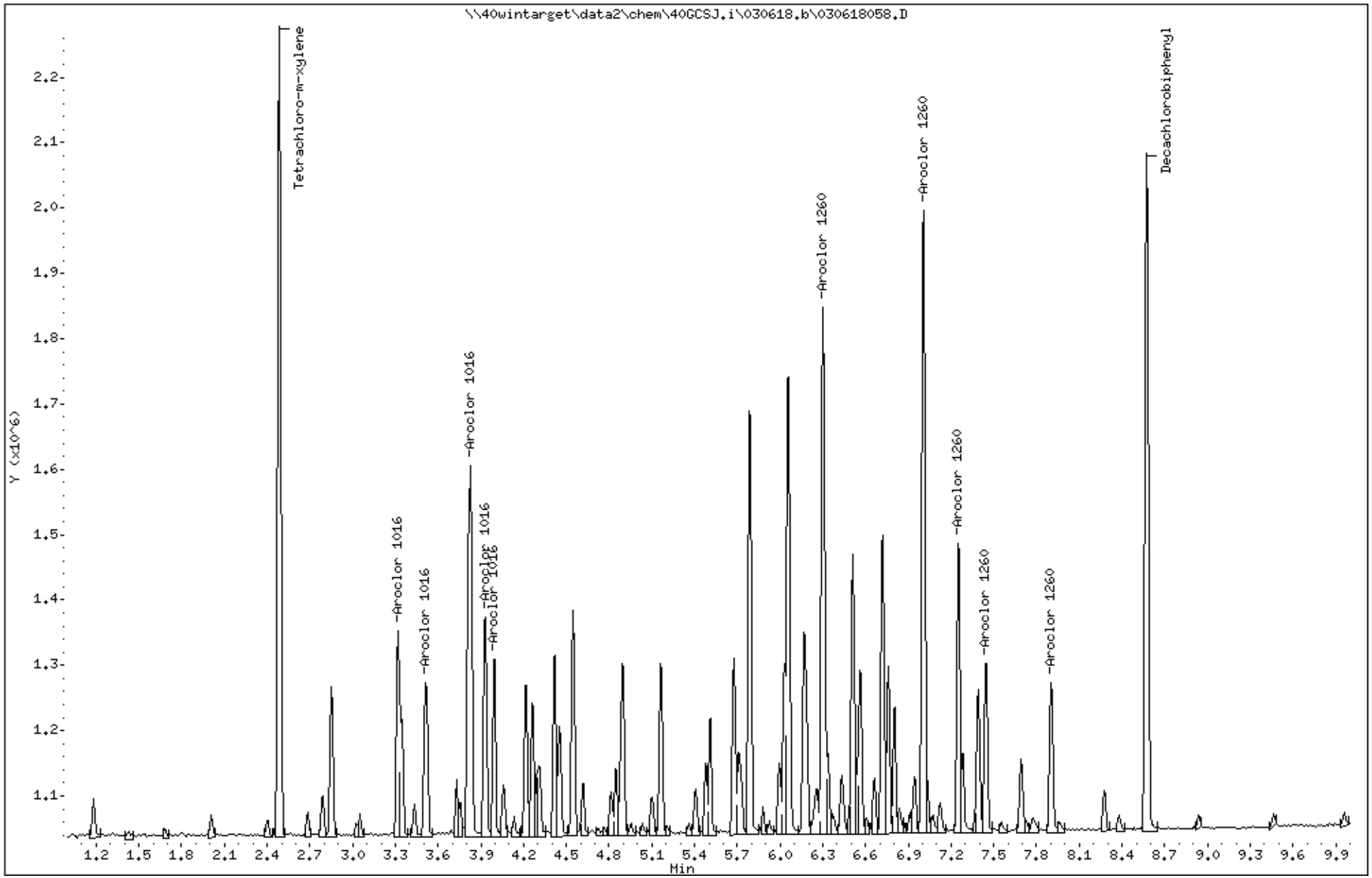
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

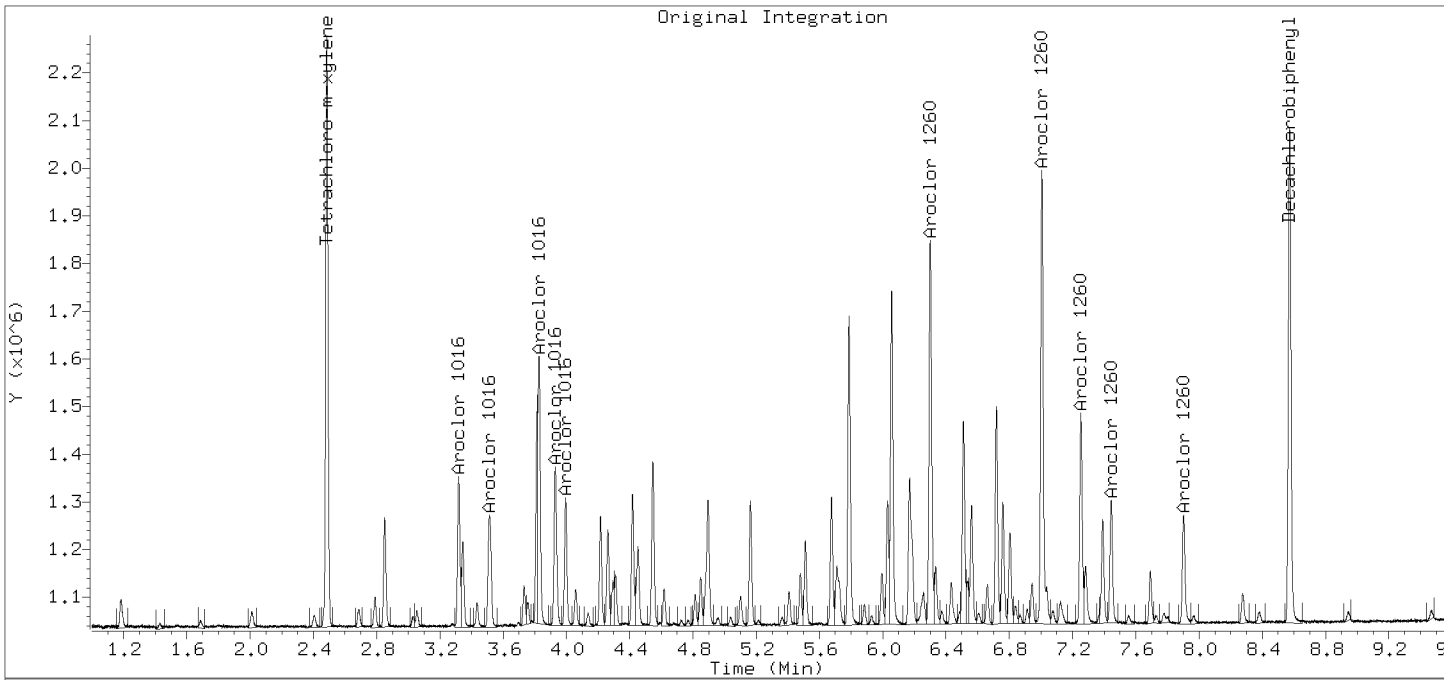
Operator: BLM

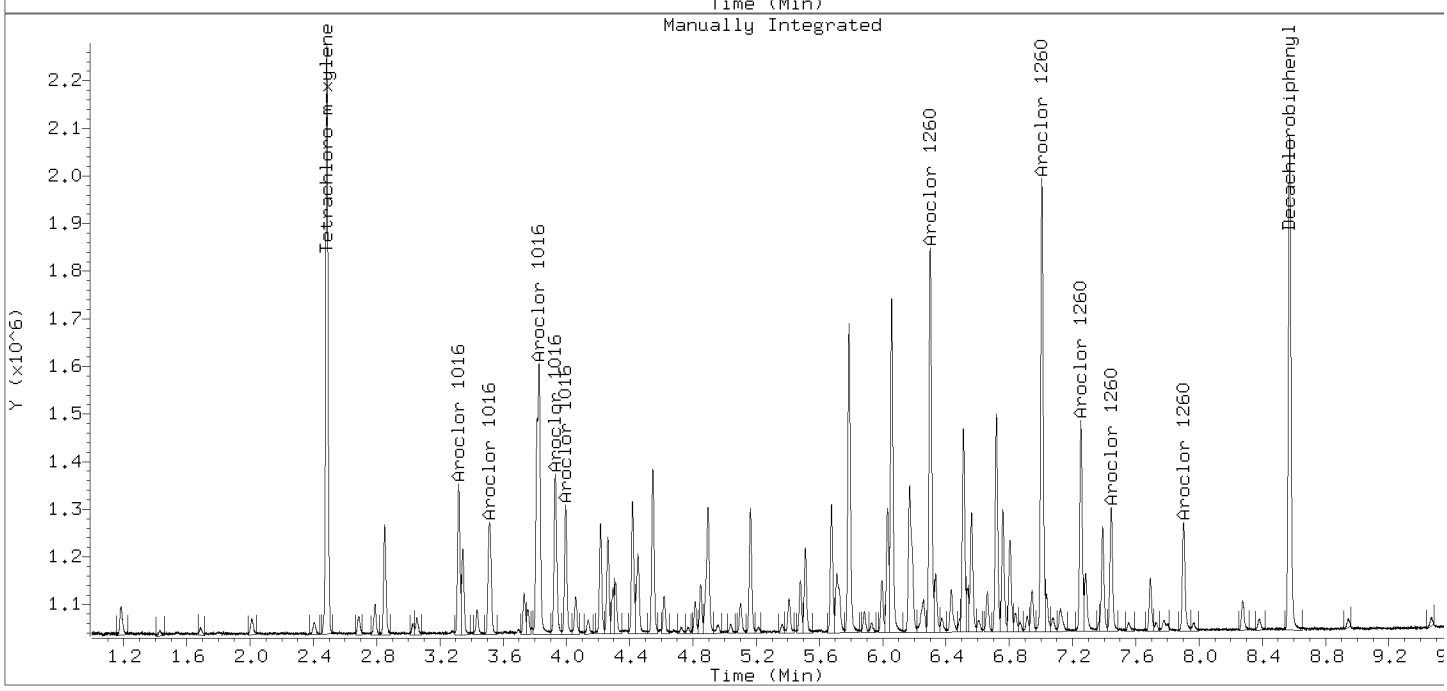
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

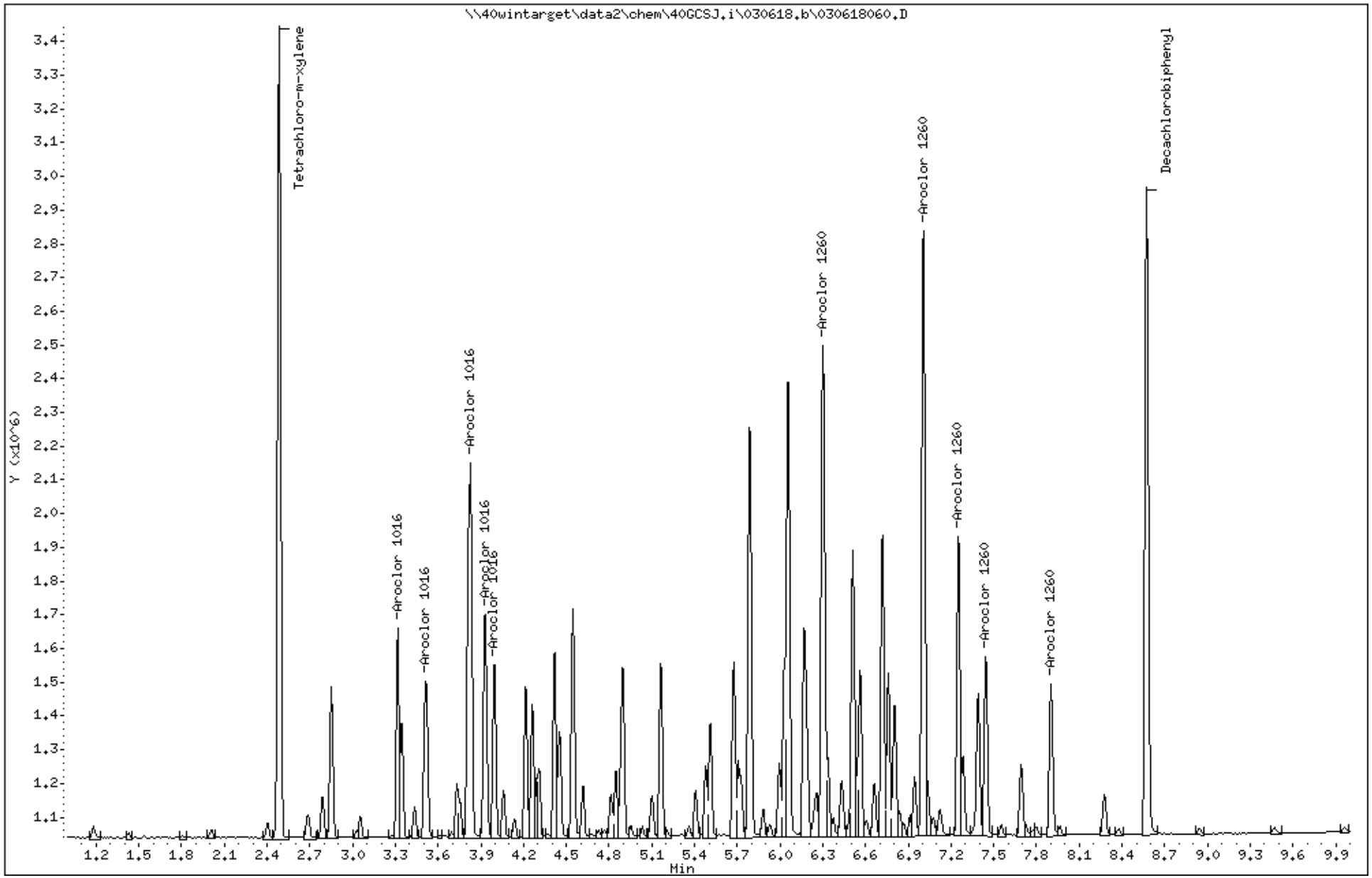
QC Flag Legend

Review Codes Legend

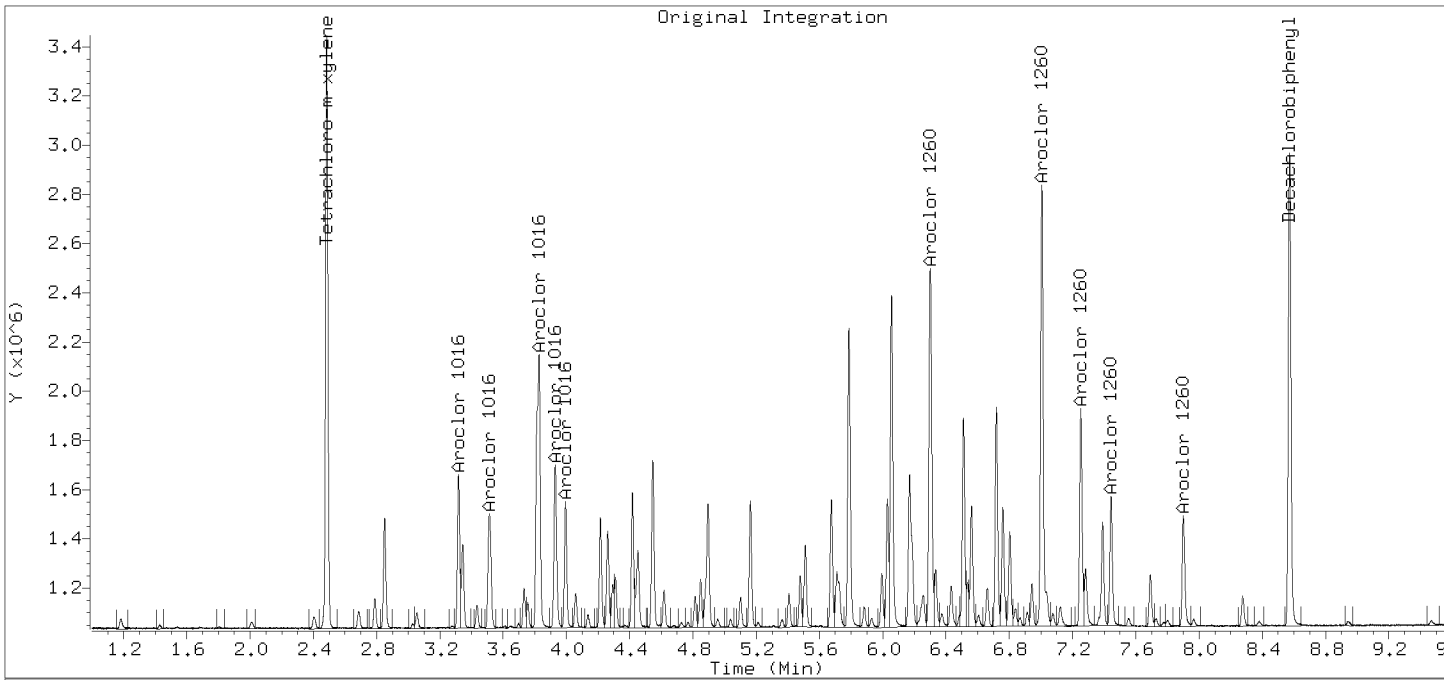
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

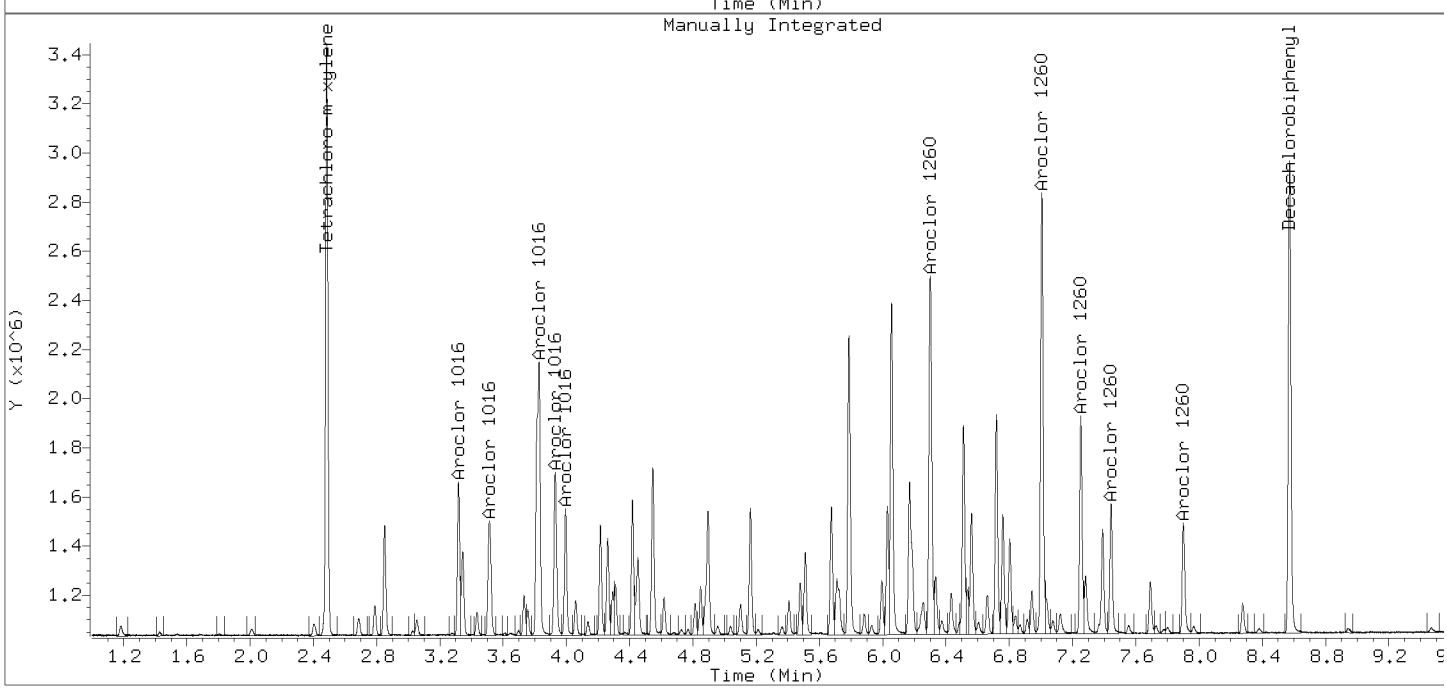
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

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	

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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.

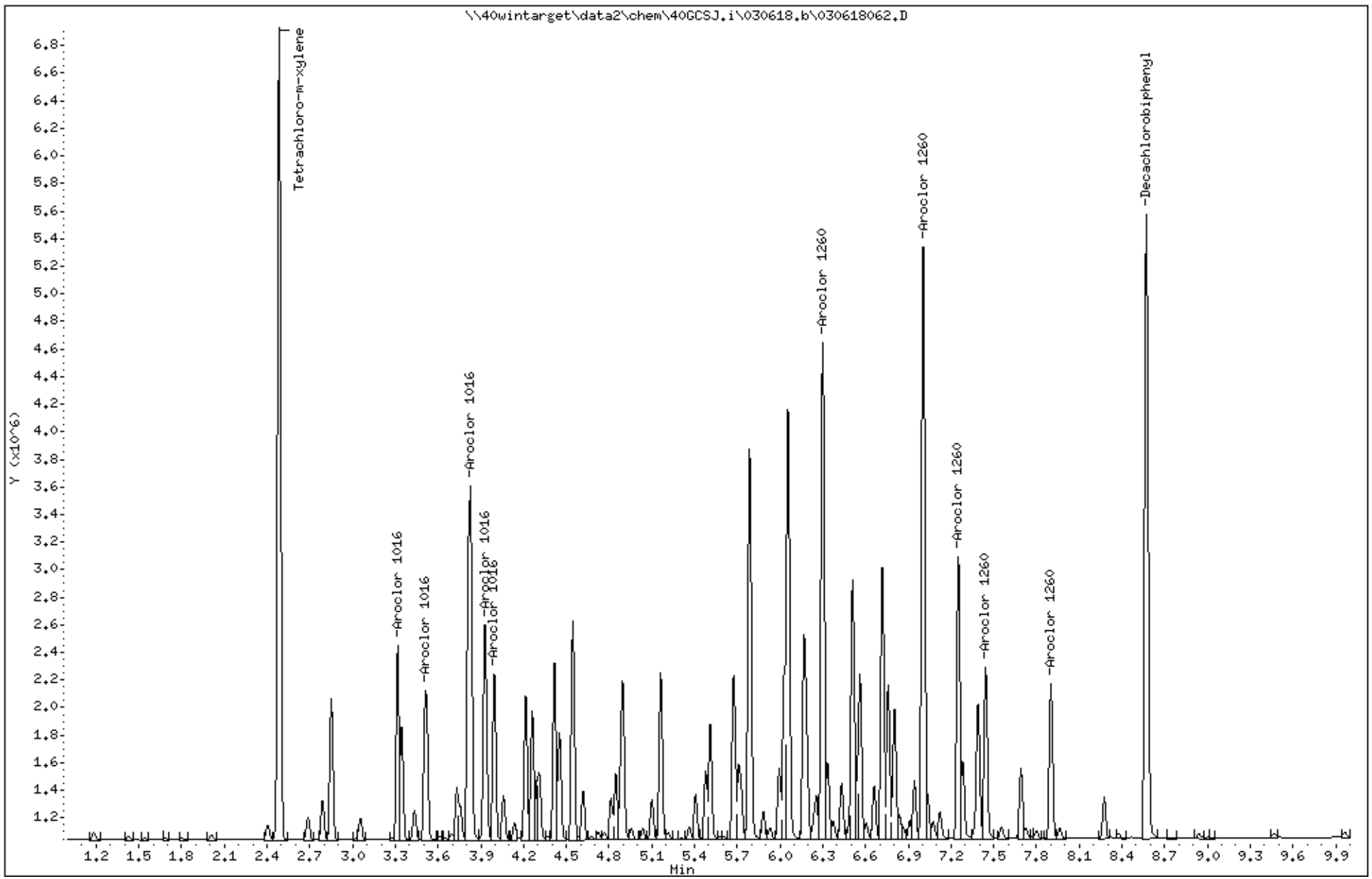
QC Flag Legend

Review Codes Legend

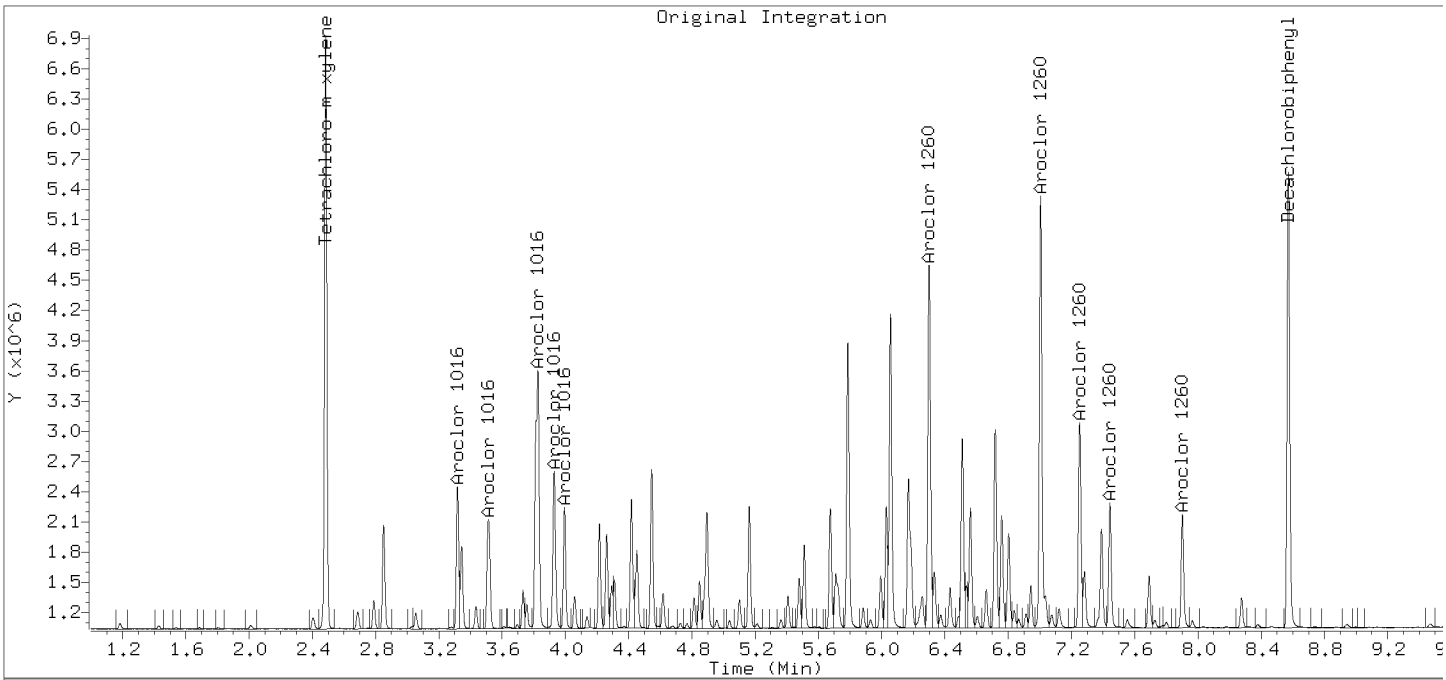
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

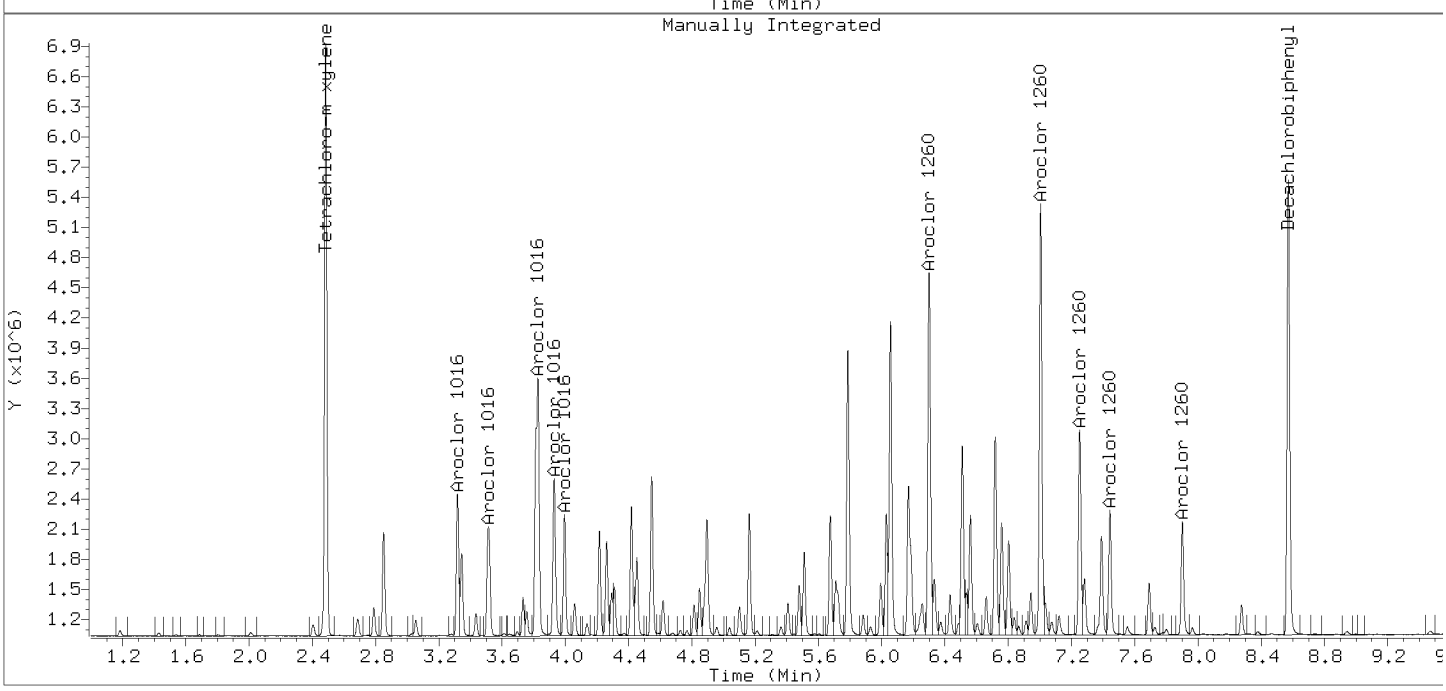
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

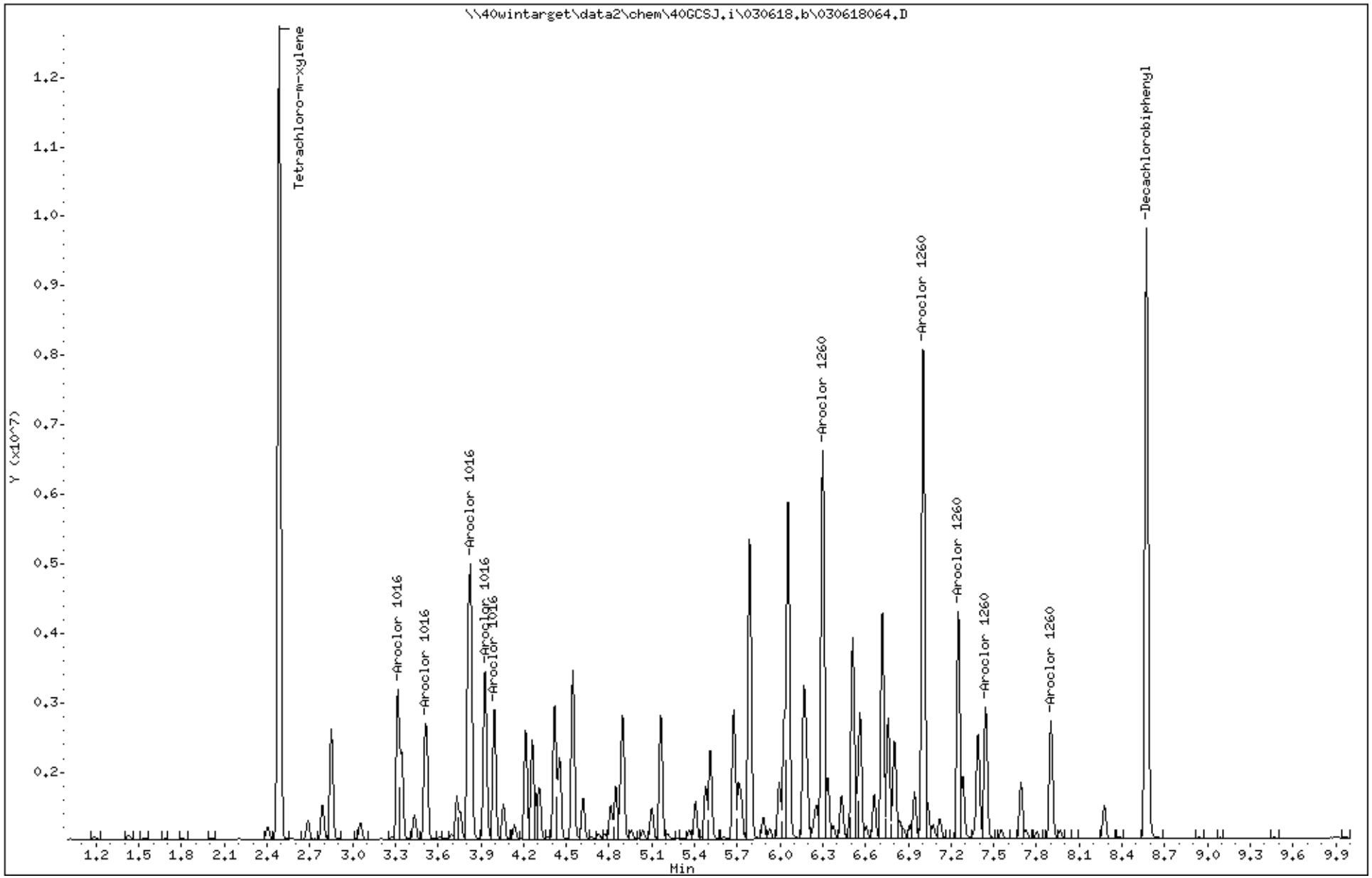
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

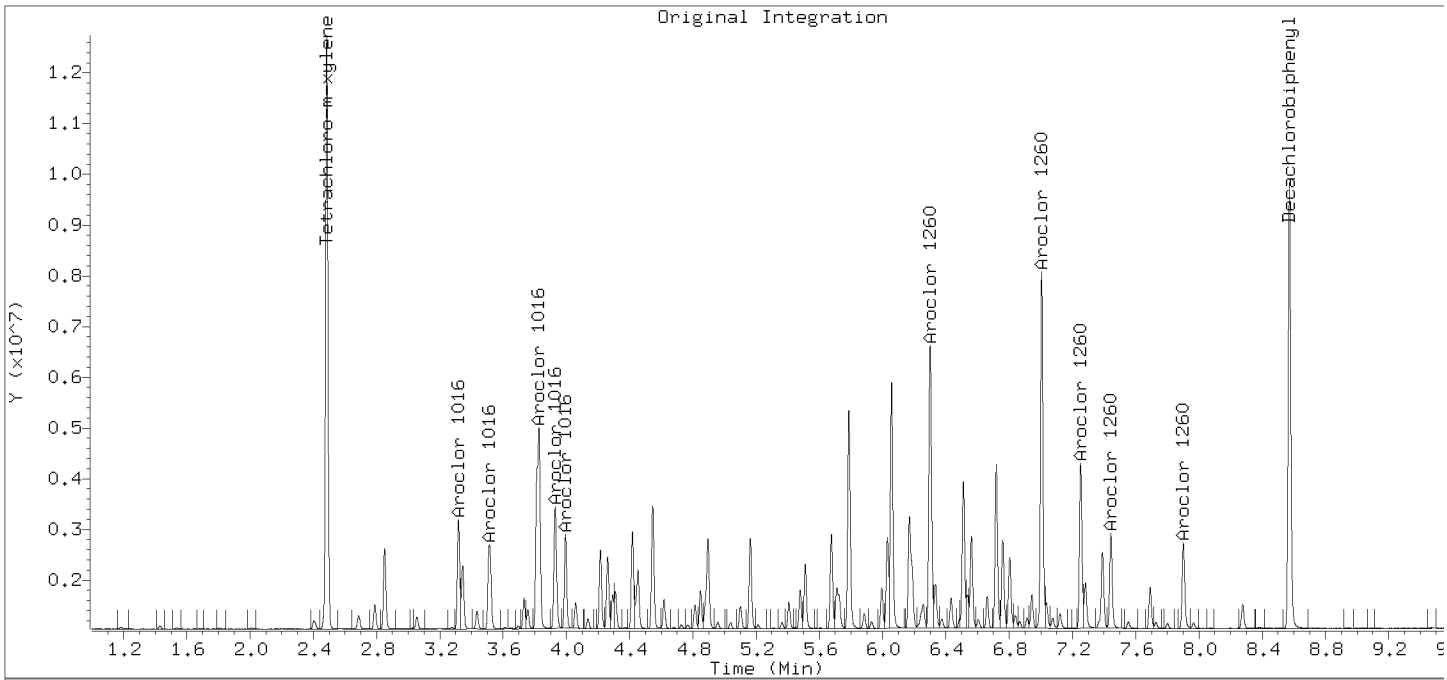
Operator: BLM

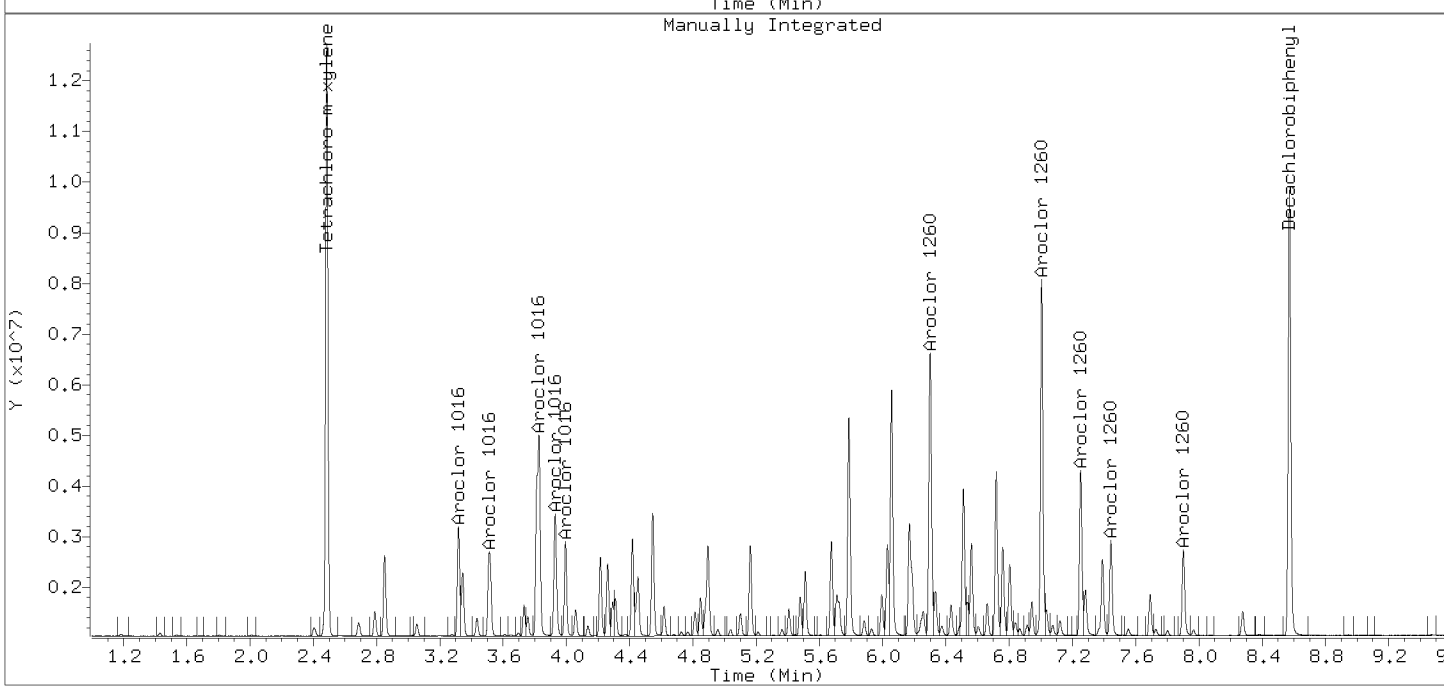
Column phase: ZB-1ms

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

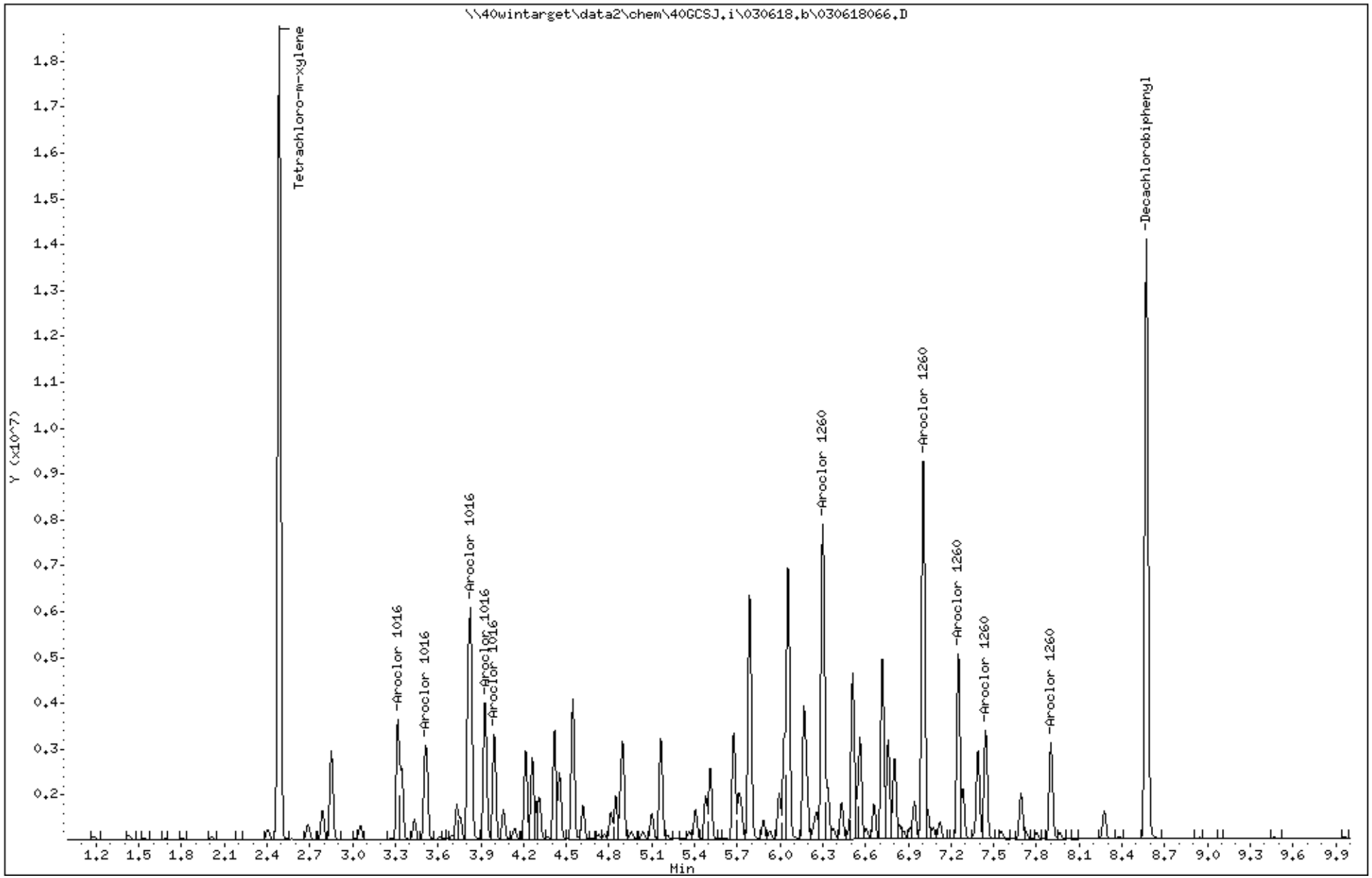
M - Compound response manually integrated.

Review Codes Legend

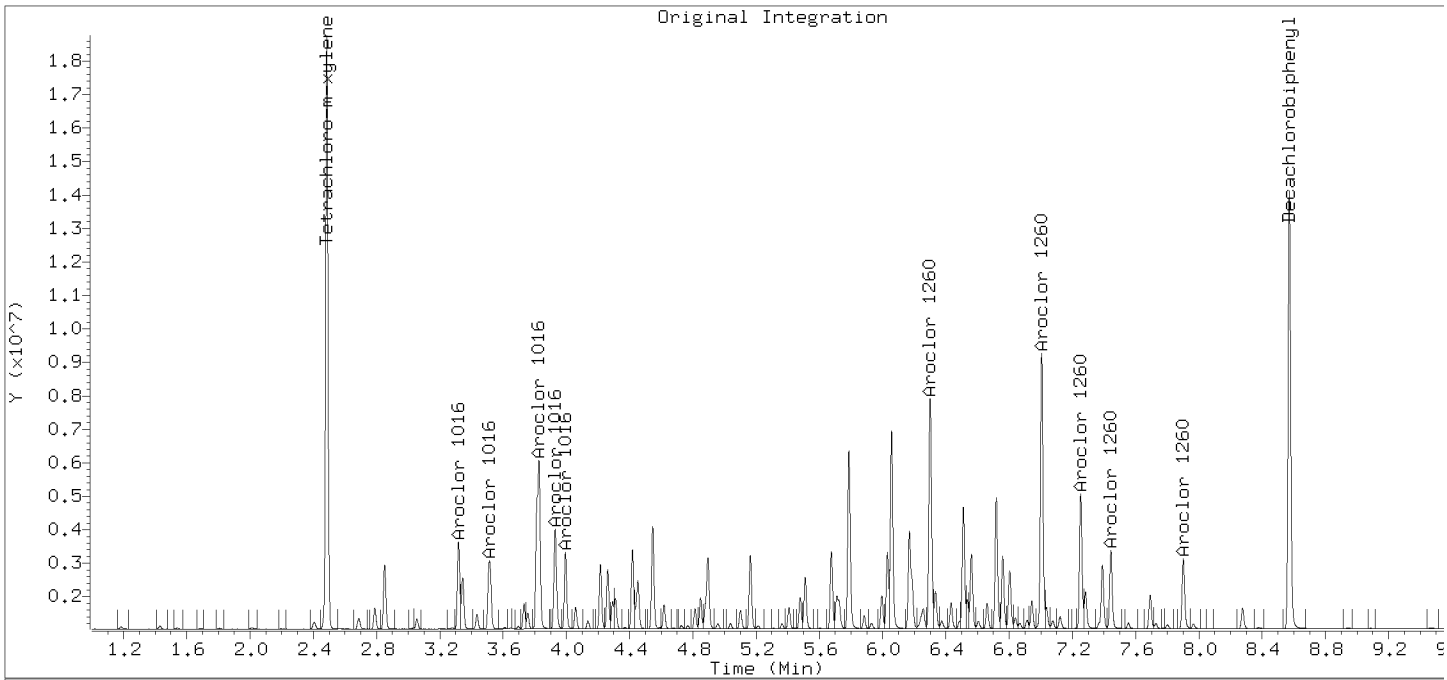
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

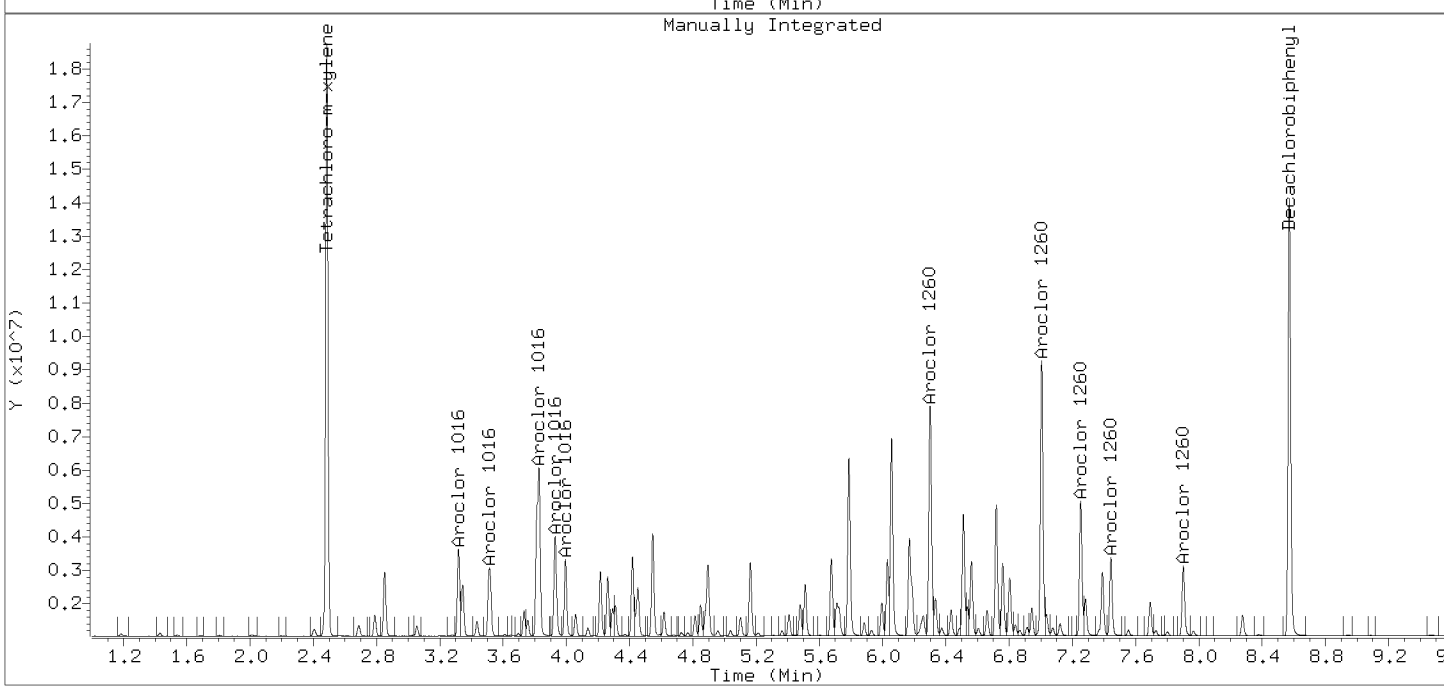
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

Instrument: 40GCSJ.i
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.: 40151705

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.: 40151705

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.: 40151705

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.: 40151705

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.: 40151705

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

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

SAMPLE NO.

10842795CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151705

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

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

SAMPLE NO.

10842794CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

Lab File ID: 032018.B\032018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151705

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2370352.00	1.1685
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4146654.00	-0.0880
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2042030.00	0.5886
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5085656.00	0.9570
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3617738.00	0.8135
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106514480.	-2.7798
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	119702040.	-2.9142

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

SAMPLE NO.

10844457CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 22:49

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

Lab File ID: 032018.B\032018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151705

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.162	5.128	5.196	5235247.45	5288960.00	1.0260
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4389492.00	2.0562
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	7880510.00	1.4737
Aroclor 1254	4	Averaged	6.025	5.993	6.061	4869683.55	5116178.00	5.0618
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	6707288.00	3.0764
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111005760.	1.3196
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	121881340.	-1.1467

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

SAMPLE NO.

10844456CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/21/2018 Time: 01:59

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

Lab File ID: 032018.B\032018052.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151705

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.316	3.284	3.352	3080830.60	3218970.00	4.4838
Aroclor 1016	2	Averaged	3.511	3.478	3.546	3099002.40	3200284.00	3.2682
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9361682.00	5.6410
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3979030.00	5.2591
Aroclor 1016	5	Averaged	3.992	3.96	4.028	2603349.30	2672992.00	2.6751
Aroclor 1260	1	Averaged	6.297	6.266	6.334	8862352.50	9450708.00	6.6388
Aroclor 1260	2	Averaged	7.002	6.972	7.04	10014373.3	10811868.0	7.9635
Aroclor 1260	3	Averaged	7.249	7.217	7.285	4779803.15	5237022.00	9.5656
Aroclor 1260	4	Averaged	7.44	7.409	7.477	2915110.60	3072436.00	5.3969
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2826844.00	7.1287
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	115952020.	5.8343
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	126820260.	2.8591

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.430	40840	33323	0.816	0.23		
1.537	17254	12915	0.749	0.09		
1.688	12270	8463	0.690	0.07		
1.804	537154	469858	0.875	3.07	1 Aroclor 1221	BA
2.158	11282	10928	0.969	0.06		
2.198	158378	141258	0.892	0.90		
2.407	279229	204848	0.734	1.60	1 Aroclor 1221	BA
2.485	5973454	5698500	0.954	34.47	$ 2 Tetrachloro-m-xylene	BA
2.688	723322	608616	0.841	4.14	1 Aroclor 1221	BA
2.789	557097	532699	0.956	3.19	1 Aroclor 1221	BA
2.851	1723482	1520837	0.882	9.87	1 Aroclor 1221	BA
3.053	42842	31274	0.730	0.24		
3.281	125722	92702	0.737	0.72		
3.324	409120	233739	0.571	2.34		
3.433	41957	33921	0.808	0.24		
3.514	152248	110173	0.724	0.87		
3.609	20491	17352	0.847	0.11		
3.693	13172	11957	0.908	0.07		
3.731	39776	40682	1.023	0.22		
3.755	38316	38664	1.009	0.21		
3.827	333479	205587	0.616	1.91		
3.930	166253	139975	0.842	0.95		
3.994	101078	94563	0.936	0.57		
4.058	16842	14008	0.832	0.09		
4.214	43249	38654	0.894	0.24		
4.260	30501	31686	1.039	0.17		
4.291	19839	13076	0.659	0.11		
4.418	34788	38094	1.095	0.19		
4.447	27970	19186	0.686	0.16		
4.544	57594	51561	0.895	0.33		
4.616	16740	13977	0.835	0.09		
4.815	23044	20925	0.908	0.13		
4.847	36853	34664	0.941	0.21		
4.879	53269	36786	0.691	0.30		
5.037	34294	32438	0.946	0.19		
5.103	10234	8648	0.845	0.05		
5.408	11500	8513	0.740	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.512	18851	12253	0.650	0.10	
5.783	9303	7027	0.755	0.05	
6.347	10003	6690	0.669	0.05	
6.867	9564	7223	0.755	0.05	
7.729	30210	25344	0.839	0.17	
7.802	20371	17570	0.862	0.11	
8.278	45102	38714	0.858	0.25	
8.572	5321926	4509273	0.847	30.49	$ 12 Decachlorobiphenyl
8.942	13753	10341	0.752	0.07	
9.470	11610	10452	0.900	0.06	
9.960	25620	14968	0.584	0.14	
	17451246	15314905		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO		REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.484	2.484	0.000	5973454	0.05000	0.048			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	537154	0.50000	0.52	0.00- 20.00	100.00	(M)	BA
2.407	2.407	0.000	279229	0.50000	0.51	0.00- 20.00	51.98		BA
2.688	2.688	0.000	723321	0.50000	0.52	0.00- 20.00	134.66		BA
2.789	2.789	0.000	557097	0.50000	0.50	0.00- 20.00	103.71		BA
2.851	2.851	0.000	1723482	0.50000	0.53	0.00- 20.00	320.85		BA
Average of Peak Amounts =					0.51600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5321926	0.05000	0.048				

QC Flag Legend

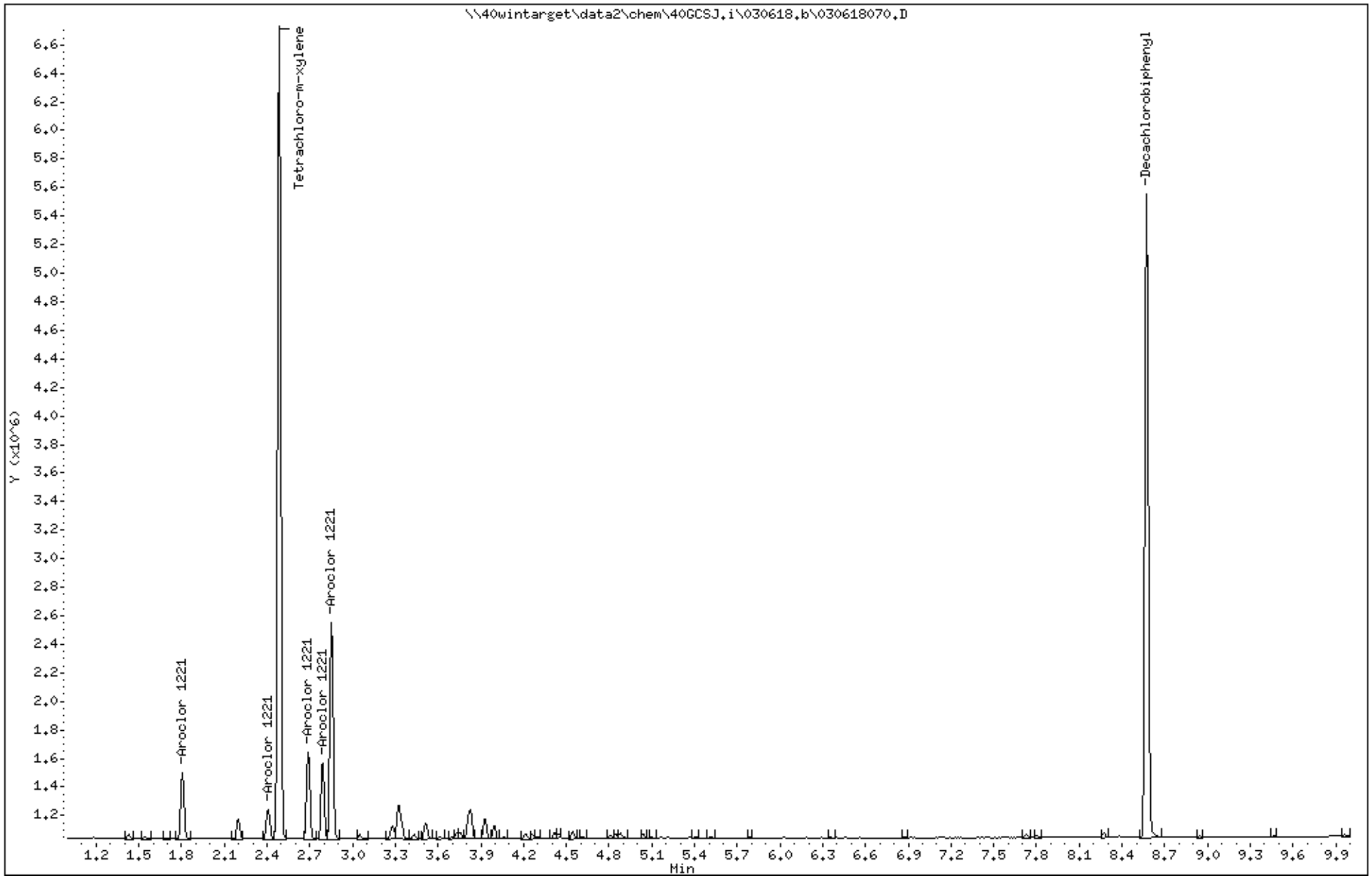
M - Compound response manually integrated.

Review Codes Legend

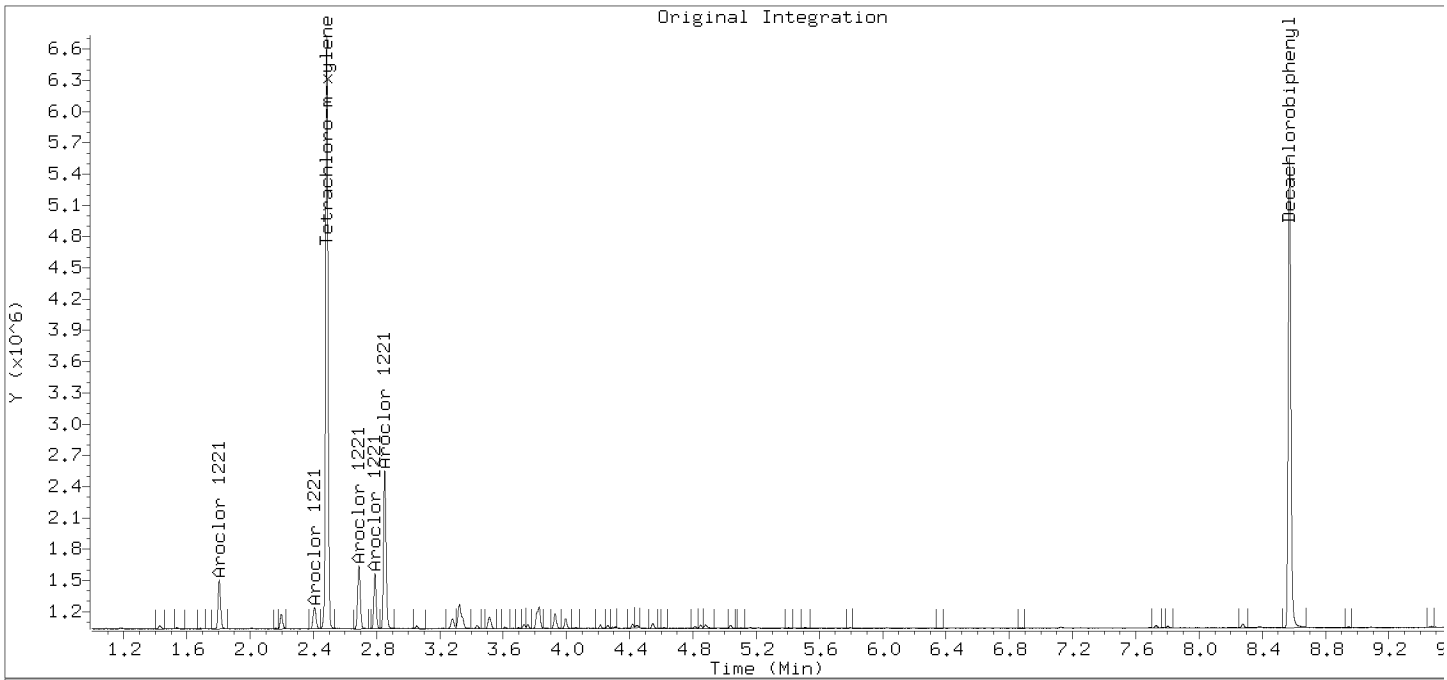
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

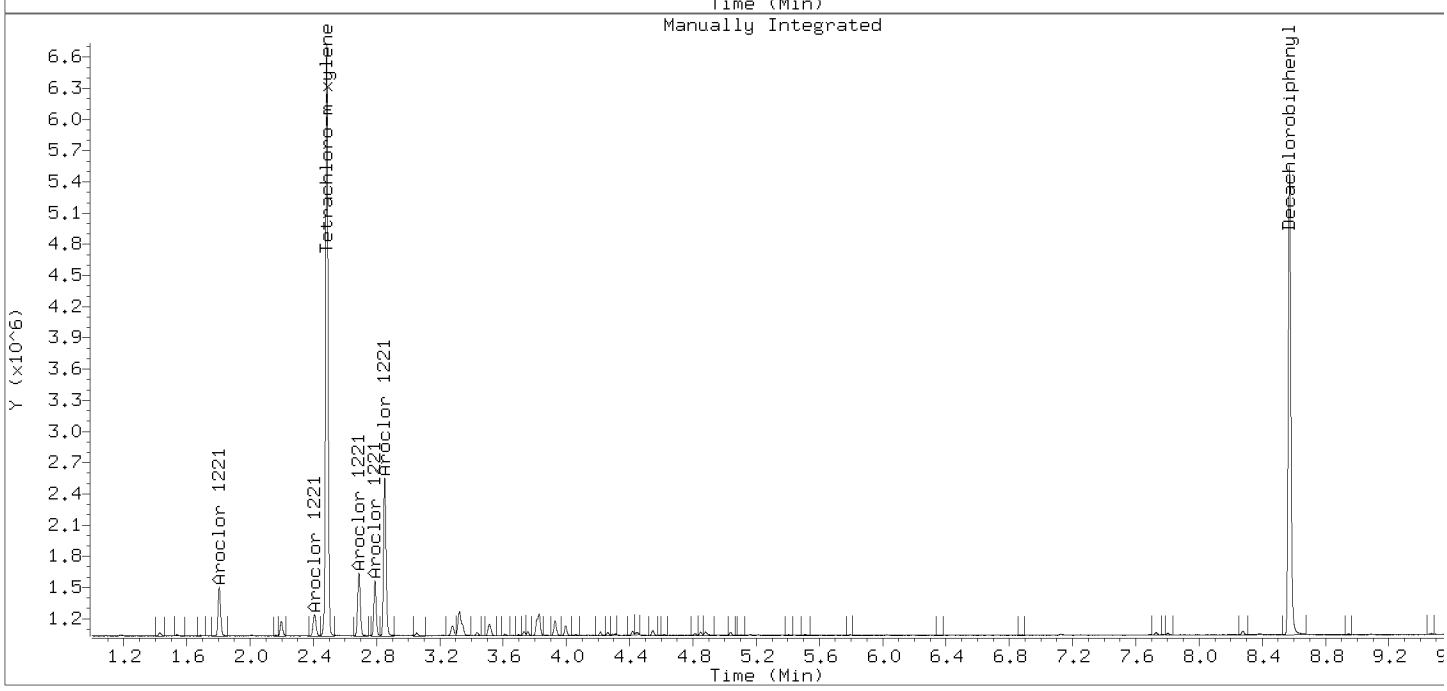
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618070.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 06-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Aroclor 1221	531813	537154	BA
Tetrachloro-m-xylene	5952668	5973454	BA
Decachlorobiphenyl	5321926	5321926	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	14288	12968	0.908	0.03		
1.428	37134	32784	0.883	0.09		
1.539	20685	13744	0.664	0.05		
1.806	19059	17804	0.934	0.05		
2.404	134346	103552	0.771	0.35		
2.485	5873636	5676099	0.966	16.03	$ 2 Tetrachloro-m-xylene	
2.686	193190	158466	0.820	0.51		
2.788	283870	272236	0.959	0.75		
2.850	999209	952371	0.953	2.66		
3.054	145787	130280	0.894	0.38		
3.279	24447	19522	0.799	0.06		
3.317	1287474	1200238	0.932	3.43	3 Aroclor 1242	BA
3.344	730459	693075	0.949	1.94		
3.435	207883	189325	0.911	0.55		
3.513	1293863	944289	0.730	3.44	3 Aroclor 1242	BA
3.612	22860	18377	0.804	0.06		
3.647	23439	16349	0.698	0.06		
3.696	36476	35506	0.973	0.09		
3.731	322838	319621	0.990	0.86		
3.756	213073	205263	0.963	0.56		
3.826	3581222	2097110	0.586	9.54	3 Aroclor 1242	BA
3.928	1554671	1293077	0.832	4.14	3 Aroclor 1242	BA
3.994	1041253	986439	0.947	2.77	3 Aroclor 1242	BA
4.058	279247	251769	0.902	0.74		
4.136	113510	101678	0.896	0.30		
4.215	824770	788034	0.955	2.19		
4.261	781405	765245	0.979	2.08		
4.292	312524	328346	1.051	0.83		
4.311	404517	367665	0.909	1.07		
4.372	27372	22538	0.823	0.07		
4.417	1118646	1040424	0.930	2.98		
4.452	854457	630460	0.738	2.27		
4.545	1421692	1283823	0.903	3.78		
4.618	334338	302865	0.906	0.89		
4.679	28007	18667	0.667	0.07		
4.728	68438	58015	0.848	0.18		
4.768	73081	69415	0.950	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	640662	618887	0.966	1.70	
4.848	1131783	1062264	0.939	3.01	
4.878	1453285	1083159	0.745	3.87	
4.957	156083	126825	0.813	0.41	
5.037	1224571	1114748	0.910	3.26	
5.099	245239	185939	0.758	0.65	
5.162	276625	246249	0.890	0.73	
5.212	201147	175293	0.871	0.53	
5.285	18730	16061	0.858	0.04	
5.312	50903	39235	0.771	0.13	
5.362	178111	159411	0.895	0.47	
5.407	296369	257265	0.868	0.78	
5.446	185486	163132	0.879	0.49	
5.509	494170	376849	0.763	1.31	
5.604	157705	129475	0.821	0.42	
5.670	15998	12262	0.766	0.04	
5.716	27499	21293	0.774	0.07	
5.741	38080	32982	0.866	0.10	
5.792	324066	249256	0.769	0.86	
5.891	46598	28590	0.614	0.12	
6.025	300272	225833	0.752	0.80	
6.173	22376	16996	0.760	0.05	
6.299	61219	54211	0.886	0.16	
6.335	9981	10468	1.049	0.02	
6.367	9764	8232	0.843	0.02	
6.801	13109	12142	0.926	0.03	
7.008	20895	16561	0.793	0.05	
7.124	16181	11660	0.721	0.04	
7.253	9479	8109	0.855	0.02	
7.392	10765	9021	0.838	0.02	
7.727	30633	26862	0.877	0.08	
7.802	22807	20254	0.888	0.06	
8.275	44979	37205	0.827	0.11	
8.381	12768	10411	0.815	0.03	
8.572	5034014	4309550	0.856	13.41	$ 12 Decachlorobiphenyl
9.466	9953	6796	0.683	0.02	
9.962	21579	14184	0.657	0.05	
	37517051	32315109		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5873636	0.05000	0.048			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1287474	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1293862	0.50000	0.51	0.00- 20.00	100.50	BA
3.825	3.827	-0.002	3581221	0.50000	0.50	0.00- 20.00	278.16	BA
3.928	3.929	-0.001	1554671	0.50000	0.51	0.00- 20.00	120.75	BA
3.993	3.995	-0.002	1041252	0.50000	0.51	0.00- 20.00	80.88	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5034013	0.05000	0.046			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D

Date : 06-MAR-2018 20:27

Client ID: 1242-ICV

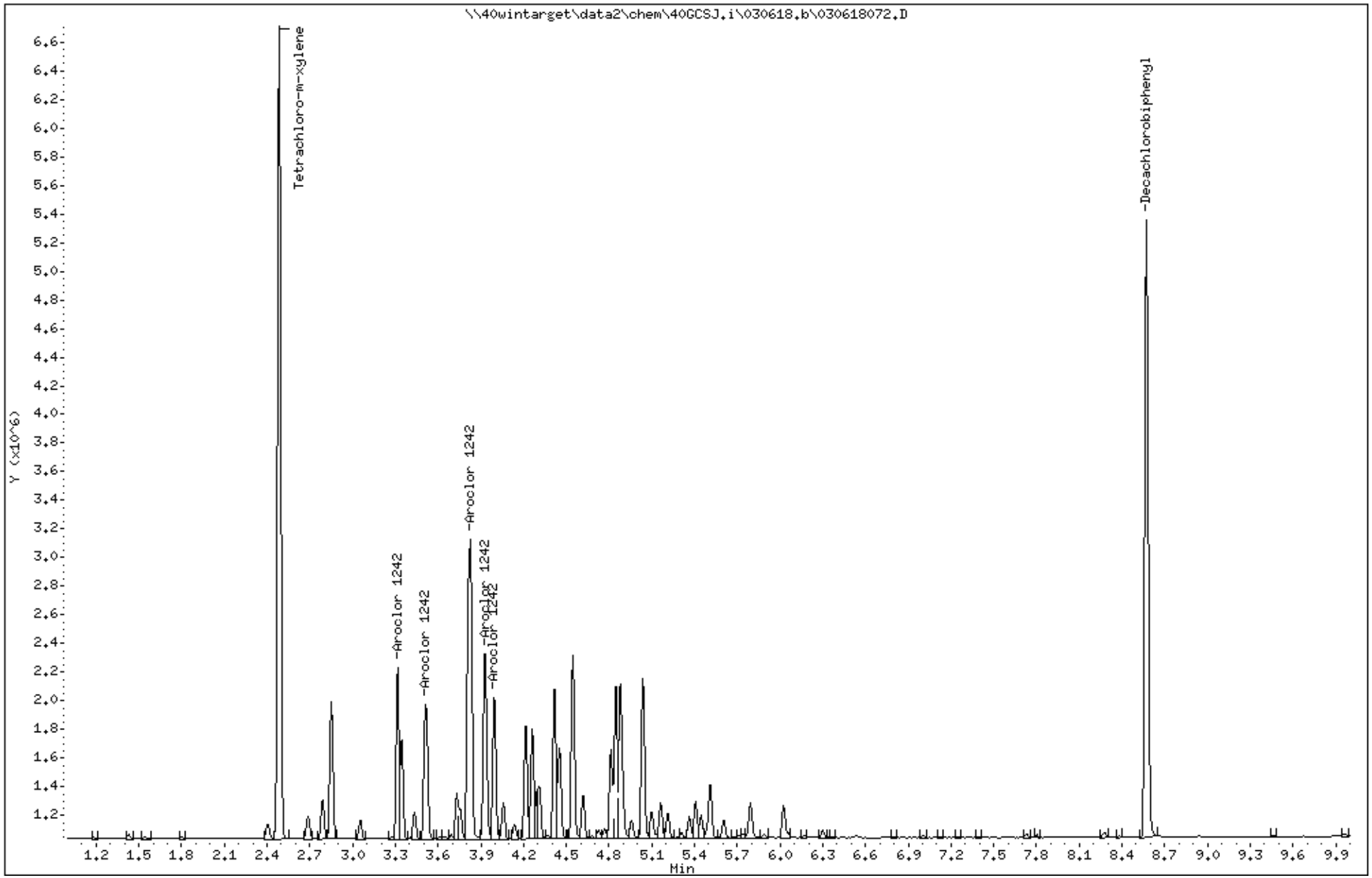
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

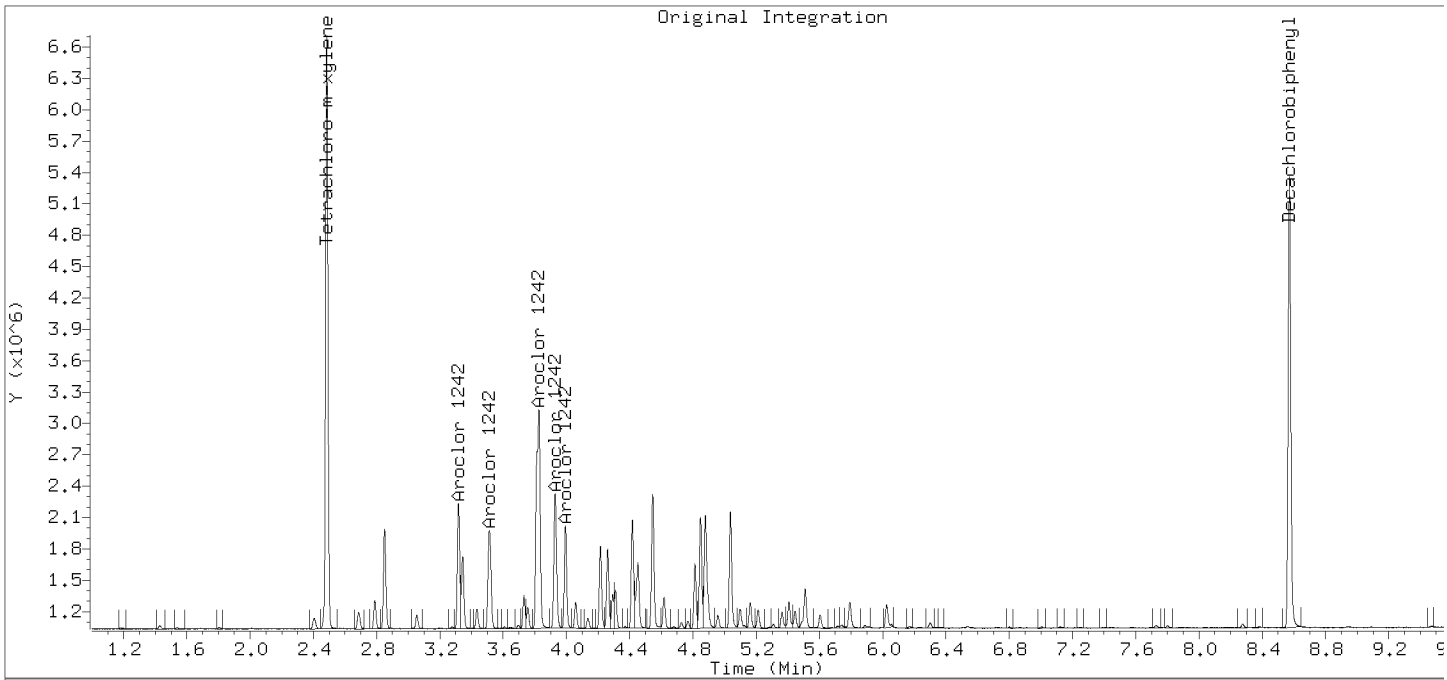
Operator: BLM

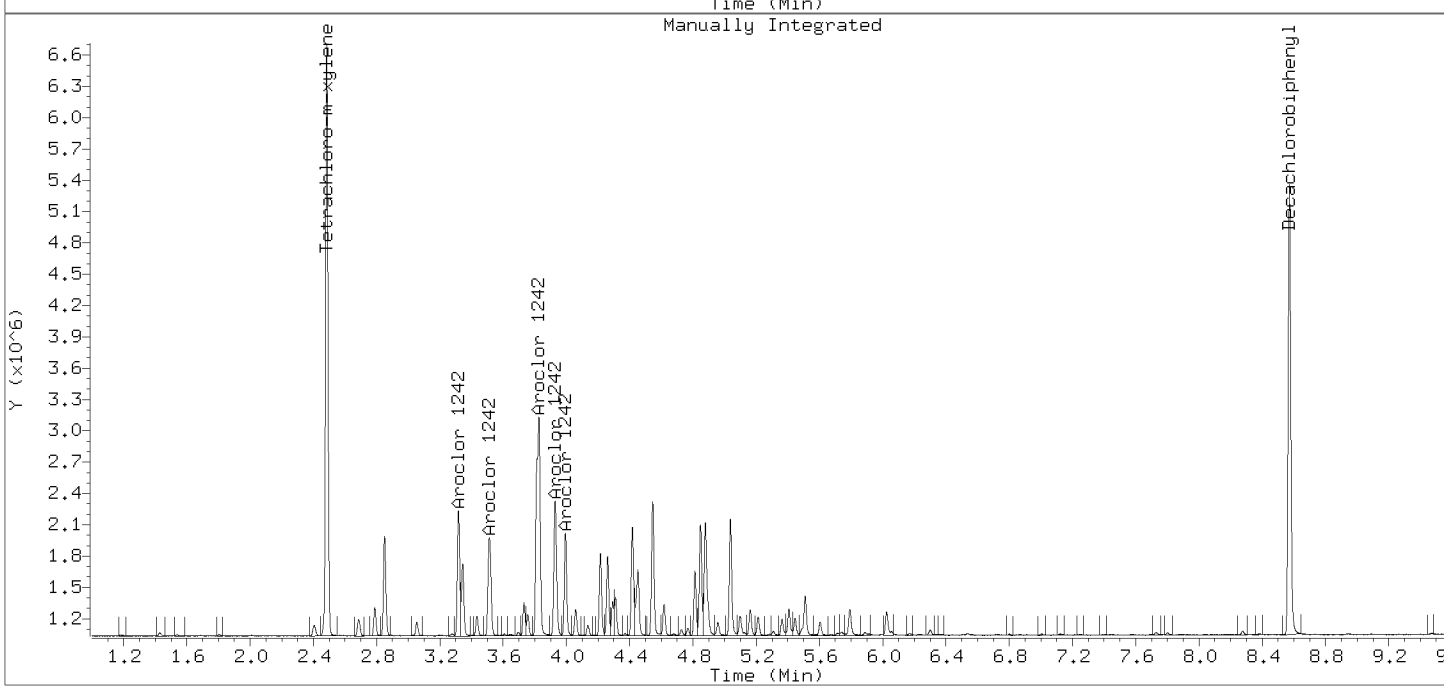
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618072.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 06-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Aroclor 1242	1280662	1287474	BA
Tetrachloro-m-xylene	5873636	5873636	
Decachlorobiphenyl	5034013	5034013	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	17909	14420	0.805	0.04		
1.427	41300	30754	0.745	0.09		
1.534	17534	12165	0.694	0.04		
1.683	10383	10019	0.965	0.02		
2.405	14088	10428	0.740	0.03		
2.485	5899761	5544150	0.940	14.05	$ 2 Tetrachloro-m-xylene	
2.689	16668	12362	0.742	0.03		
2.788	95501	90846	0.951	0.22		
2.852	103096	93433	0.906	0.23		
3.055	53842	46986	0.873	0.12		
3.318	652092	633367	0.971	1.50		
3.344	255476	242530	0.949	0.58		
3.433	54381	45369	0.834	0.12		
3.515	528681	378059	0.715	1.22		
3.612	17192	16665	0.969	0.03		
3.733	139942	107922	0.771	0.32		
3.815	998138	1180553	1.183	2.30		
3.825	1248615	1194584	0.957	2.88		
3.931	835250	638277	0.764	1.92		
3.995	550006	533435	0.970	1.26		
4.059	343387	326192	0.950	0.79		
4.137	145276	132173	0.910	0.33		
4.215	1486323	1403883	0.945	3.43		
4.262	1208004	1159133	0.960	2.78	6 Aroclor 1248	BA
4.293	511269	526568	1.030	1.17		
4.311	543428	513963	0.946	1.25		
4.418	1823450	1718104	0.942	4.20		
4.452	908943	795006	0.875	2.09		
4.546	2136003	1914178	0.896	4.92	6 Aroclor 1248	BA
4.588	34235	33628	0.982	0.07		
4.618	485337	462281	0.952	1.12		
4.680	28053	23489	0.837	0.06		
4.728	63611	50641	0.796	0.14		
4.769	114596	110060	0.960	0.26		
4.813	1072572	1047618	0.977	2.47	6 Aroclor 1248	BA
4.848	2019974	1872521	0.927	4.66		
4.880	2628588	1729939	0.658	6.06	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.958	300549	254865	0.848	0.69	
5.037	1890857	1718796	0.909	4.36	6 Aroclor 1248
5.099	658439	515140	0.782	1.51	
5.163	778429	704282	0.905	1.79	
5.212	561933	511880	0.911	1.29	
5.284	37417	36848	0.985	0.08	
5.309	124762	104101	0.834	0.28	
5.364	496549	440266	0.887	1.14	
5.408	826216	719936	0.871	1.90	
5.446	528194	462528	0.876	1.21	
5.510	1373479	1108021	0.807	3.16	
5.604	398982	348600	0.874	0.92	
5.675	36019	29954	0.832	0.08	
5.717	78189	59388	0.760	0.18	
5.739	98549	89525	0.908	0.22	
5.793	935796	748637	0.800	2.15	
5.889	98768	81563	0.826	0.22	
5.996	31650	25516	0.806	0.07	
6.024	912880	698617	0.765	2.10	
6.169	70680	48903	0.692	0.16	
6.228	45926	27843	0.606	0.10	
6.301	222697	182730	0.821	0.51	
6.335	46487	36946	0.795	0.10	
6.372	40036	31572	0.789	0.09	
6.512	15047	14089	0.936	0.03	
6.536	93754	63840	0.681	0.21	
6.607	16189	11424	0.706	0.03	
6.719	21159	16941	0.801	0.04	
6.759	10928	9914	0.907	0.02	
6.804	35912	32894	0.916	0.08	
7.005	37431	32956	0.880	0.08	
7.126	11973	10422	0.870	0.02	
7.253	25115	21545	0.858	0.05	
7.683	12978	7477	0.576	0.02	
7.730	34860	28466	0.817	0.08	
7.799	36493	21426	0.587	0.08	
7.900	14089	11492	0.816	0.03	
8.274	45874	41456	0.904	0.10	
8.380	17315	11279	0.651	0.03	
8.571	5173433	4424436	0.855	11.93	$ 12 Decachlorobiphenyl
8.940	12157	9669	0.795	0.02	
9.960	18949	14032	0.741	0.04	
	43330043	38425916		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5899761	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1208003	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2136003	0.50000	0.51	0.00- 20.00	176.82	BA
4.813	4.812	0.001	1072571	0.50000	0.53	0.00- 20.00	88.79	BA
4.879	4.879	0.000	2628587	0.50000	0.52	0.00- 20.00	217.60	BA
5.037	5.038	-0.001	1890857	0.50000	0.53	0.00- 20.00	156.53	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5173433	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

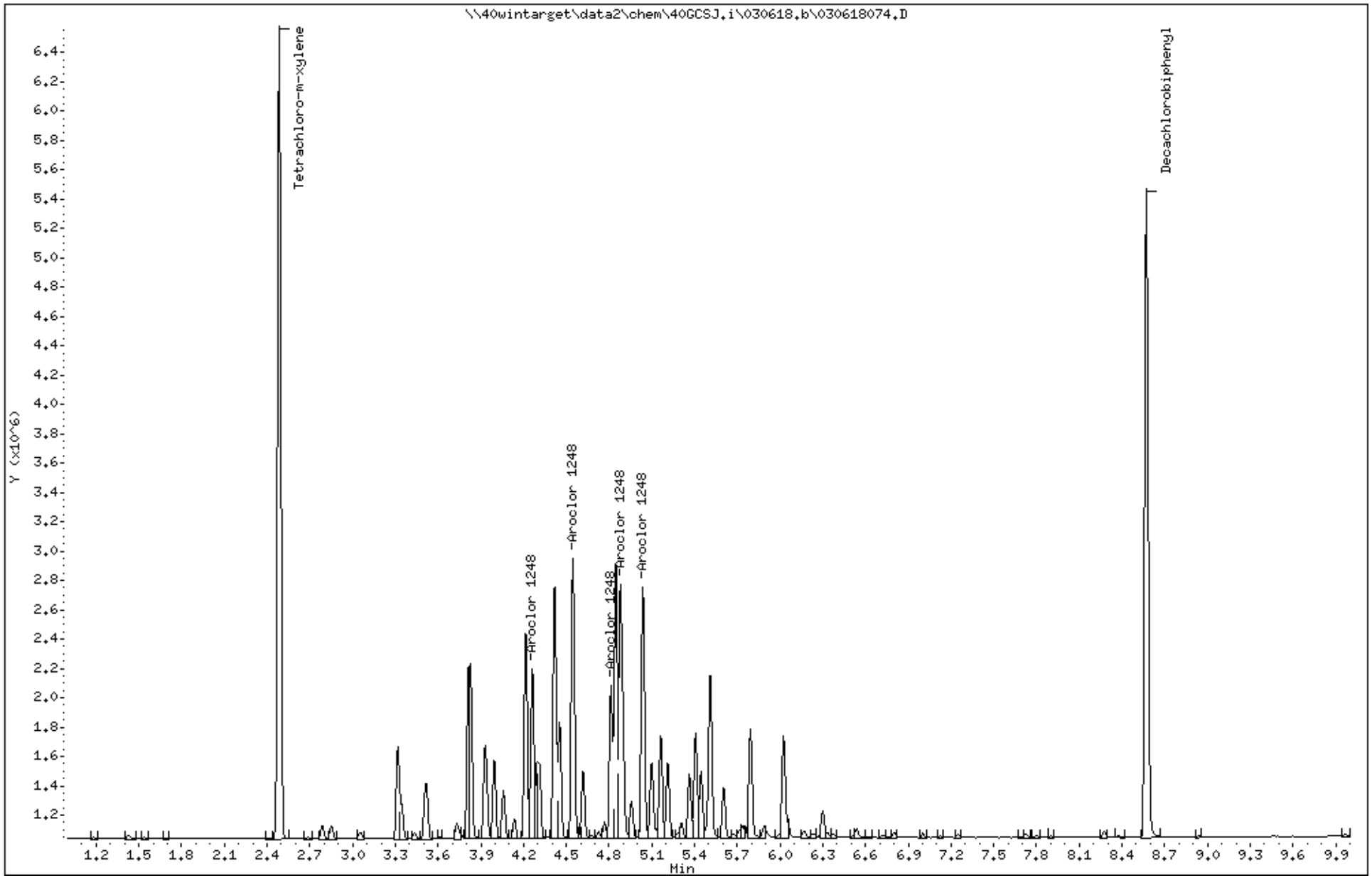
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

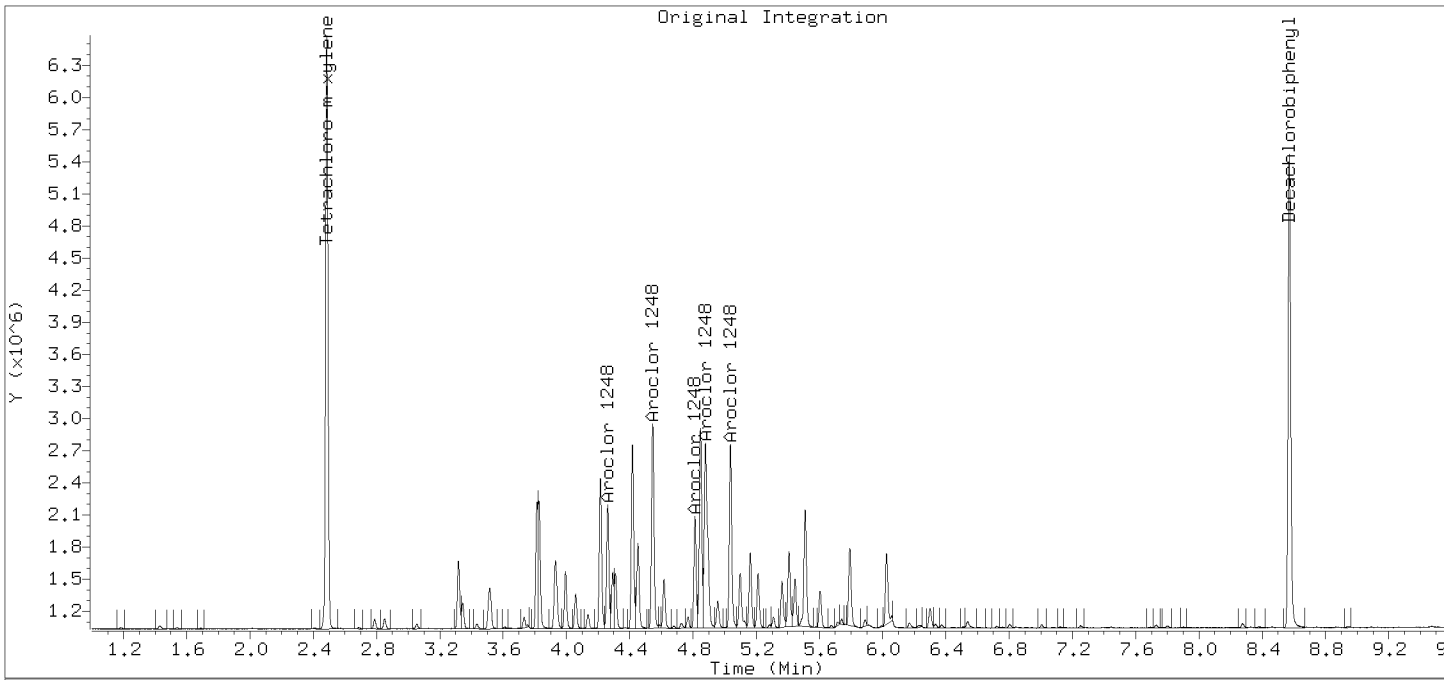
Operator: BLM

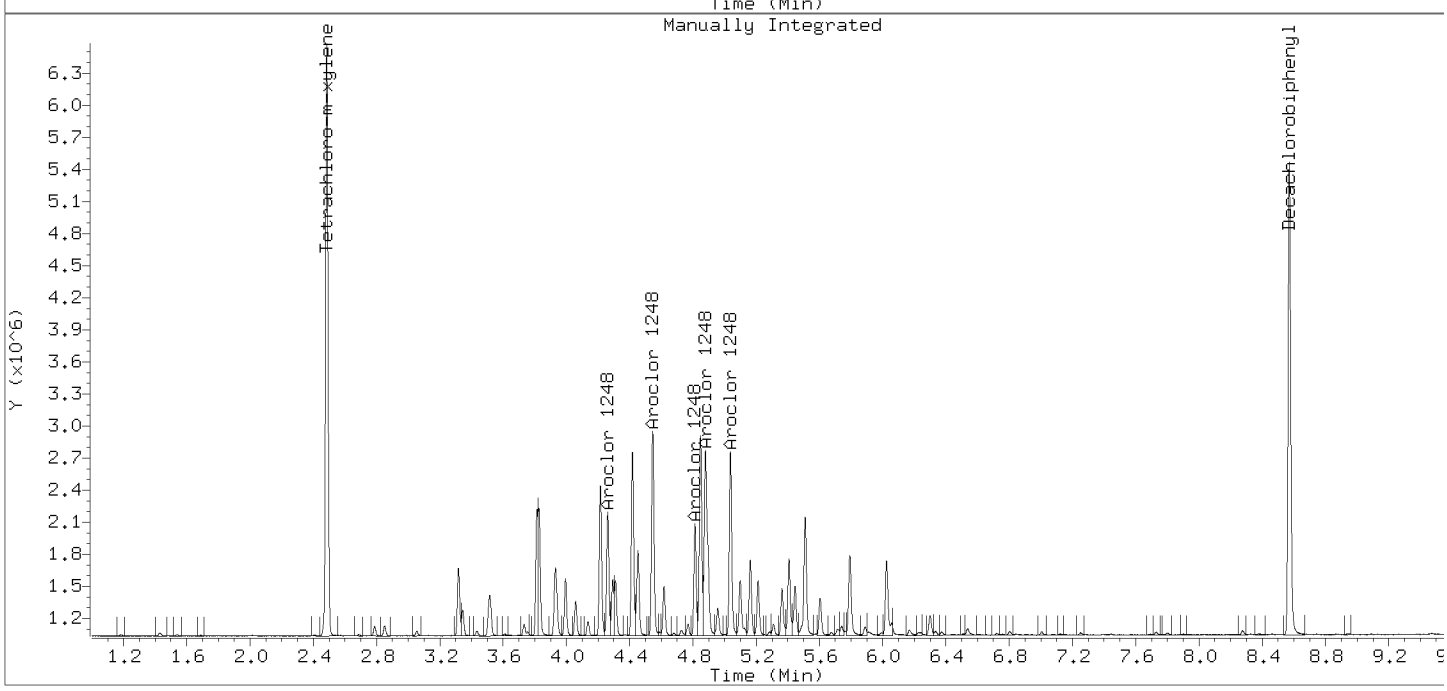
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618074.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 06-MAR-2018 20:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Aroclor 1248	1202018	1208003	BA
Tetrachloro-m-xylene	5899761	5899761	
Decachlorobiphenyl	5173433	5173433	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	11241	11145	0.991	0.02		
1.429	37023	29359	0.793	0.07		
1.536	18870	14547	0.771	0.03		
2.485	5956441	5624399	0.944	12.17	$ 2 Tetrachloro-m-xylene	
2.787	83932	83545	0.995	0.16		
2.847	23487	12751	0.543	0.04		
3.053	22053	16758	0.760	0.04		
3.320	24424	22137	0.906	0.04		
3.343	16533	14772	0.894	0.03		
3.511	21956	15136	0.689	0.04		
3.610	23047	18723	0.812	0.04		
3.813	73837	44648	0.605	0.14		
3.936	54806	35146	0.641	0.10		
3.991	21322	19067	0.894	0.04		
4.057	16084	14470	0.900	0.03		
4.216	1104737	1042404	0.944	2.18		
4.261	294439	287244	0.976	0.58		
4.293	55355	38898	0.703	0.10		
4.417	645490	619185	0.959	1.27		
4.453	65034	55154	0.848	0.12		
4.546	297966	280995	0.943	0.58		
4.590	13297	14947	1.124	0.02		
4.615	52626	43507	0.827	0.10		
4.682	14760	14823	1.004	0.02		
4.769	19864	18032	0.908	0.03		
4.813	255256	243907	0.956	0.50		
4.848	954635	917189	0.961	1.88		
4.895	2240553	1806193	0.806	4.42		
4.957	378746	331044	0.874	0.74		
5.039	197483	178932	0.906	0.39		
5.100	1331660	1130632	0.849	2.63		
5.163	2454299	2245562	0.915	4.84	7 Aroclor 1254	BA
5.212	1112261	987906	0.888	2.19		
5.285	62054	59649	0.961	0.12		
5.310	206656	186551	0.903	0.40		
5.363	957753	888665	0.928	1.89		
5.407	2011999	1826444	0.908	3.97	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.445	683522	603976	0.884	1.35	
5.478	263671	258349	0.980	0.52	
5.510	3557061	3172502	0.892	7.02	7 Aroclor 1254
5.577	41056	36384	0.886	0.08	
5.605	496084	429134	0.865	0.98	
5.676	353874	332146	0.939	0.69	
5.711	557893	345779	0.620	1.10	
5.741	316074	271838	0.860	0.62	
5.790	3702485	2959912	0.799	7.31	
5.885	349557	271841	0.778	0.69	
5.928	191368	119957	0.627	0.37	
5.994	332278	306209	0.922	0.65	
6.027	2279656	1881319	0.825	4.50	7 Aroclor 1254
6.055	1742805	1415445	0.812	3.44	
6.169	710083	597581	0.842	1.40	
6.228	301903	298212	0.988	0.59	
6.242	317472	282700	0.890	0.62	
6.300	3175762	2557382	0.805	6.27	7 Aroclor 1254
6.335	613369	538823	0.878	1.21	
6.374	338945	280771	0.828	0.66	
6.441	98349	54990	0.559	0.19	
6.487	20933	19173	0.916	0.04	
6.510	122159	127890	1.047	0.24	
6.537	1093807	836036	0.764	2.16	
6.606	171691	137034	0.798	0.33	
6.662	39774	29158	0.733	0.07	
6.720	225492	189217	0.839	0.44	
6.760	134652	118490	0.880	0.26	
6.802	627925	538577	0.858	1.24	
6.843	186255	113960	0.612	0.36	
6.943	65536	50712	0.774	0.12	
7.006	455898	370505	0.813	0.90	
7.074	28987	20562	0.709	0.05	
7.121	17906	16606	0.927	0.03	
7.253	362457	317889	0.877	0.71	
7.281	86561	71028	0.821	0.17	
7.390	15134	15178	1.003	0.02	
7.445	25464	19955	0.784	0.05	
7.555	25575	19764	0.773	0.05	
7.692	17214	14547	0.845	0.03	
7.731	30335	26152	0.862	0.05	
7.802	25782	20334	0.789	0.05	
7.898	15405	15400	1.000	0.03	
8.277	51144	41782	0.817	0.10	
8.571	5194608	4290400	0.826	10.26	$ 12 Decachlorobiphenyl
9.963	10137	8532	0.842	0.02	
	50606079	43638597		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5956440	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2454298	0.50000	0.47	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2011998	0.50000	0.47	0.00- 20.00	81.98	BA
5.510	5.510	0.000	3557060	0.50000	0.46	0.00- 20.00	144.93	BA
6.026	6.027	-0.001	2279656	0.50000	0.47	0.00- 20.00	92.88	BA
6.299	6.299	0.000	3175761	0.50000	0.49	0.00- 20.00	129.40	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5194608	0.05000	0.047			

QC Flag Legend

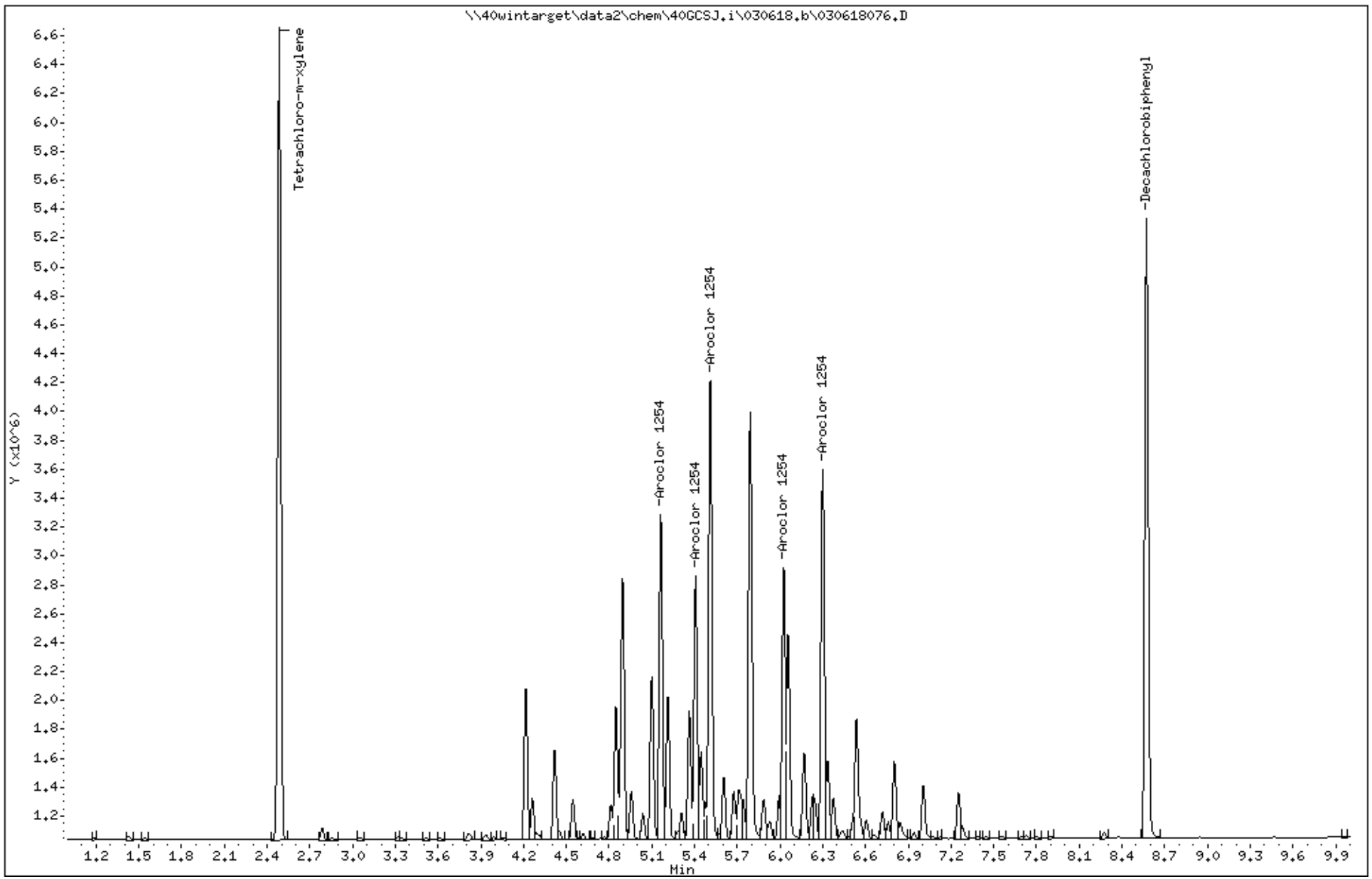
M - Compound response manually integrated.

Review Codes Legend

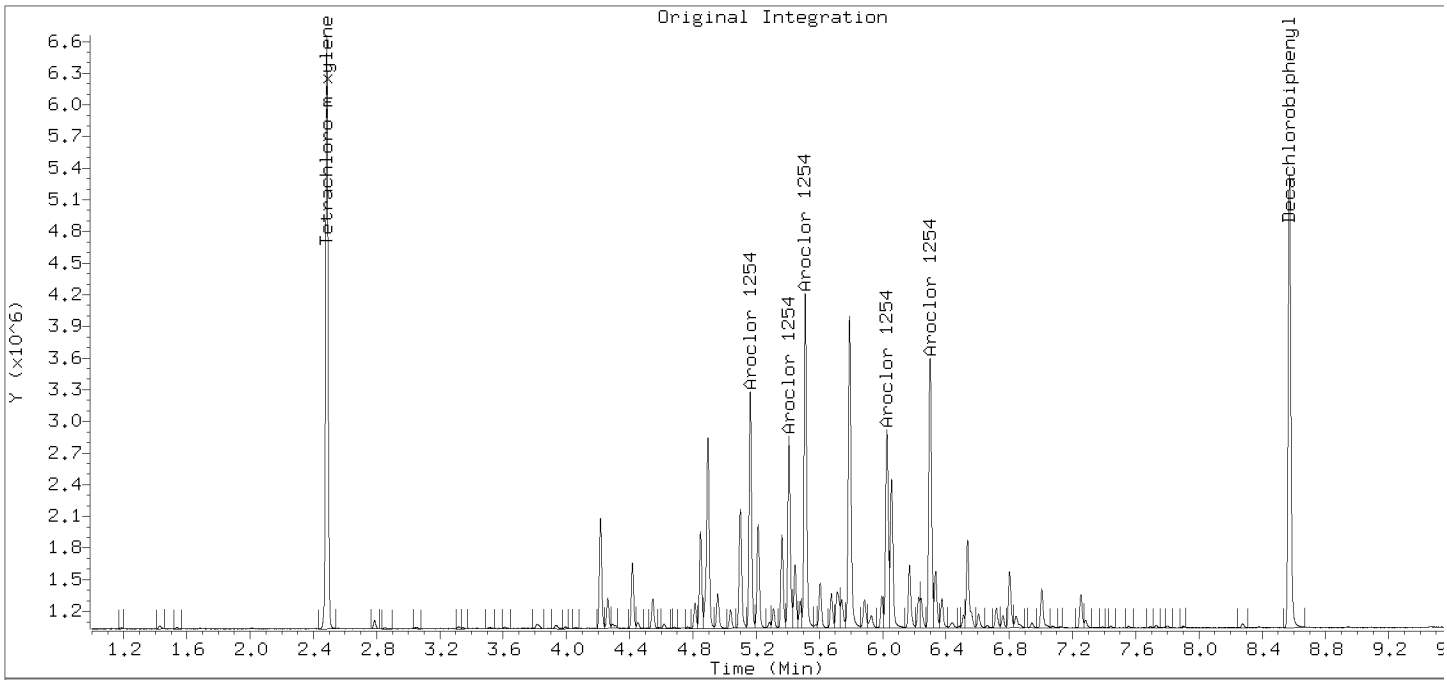
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

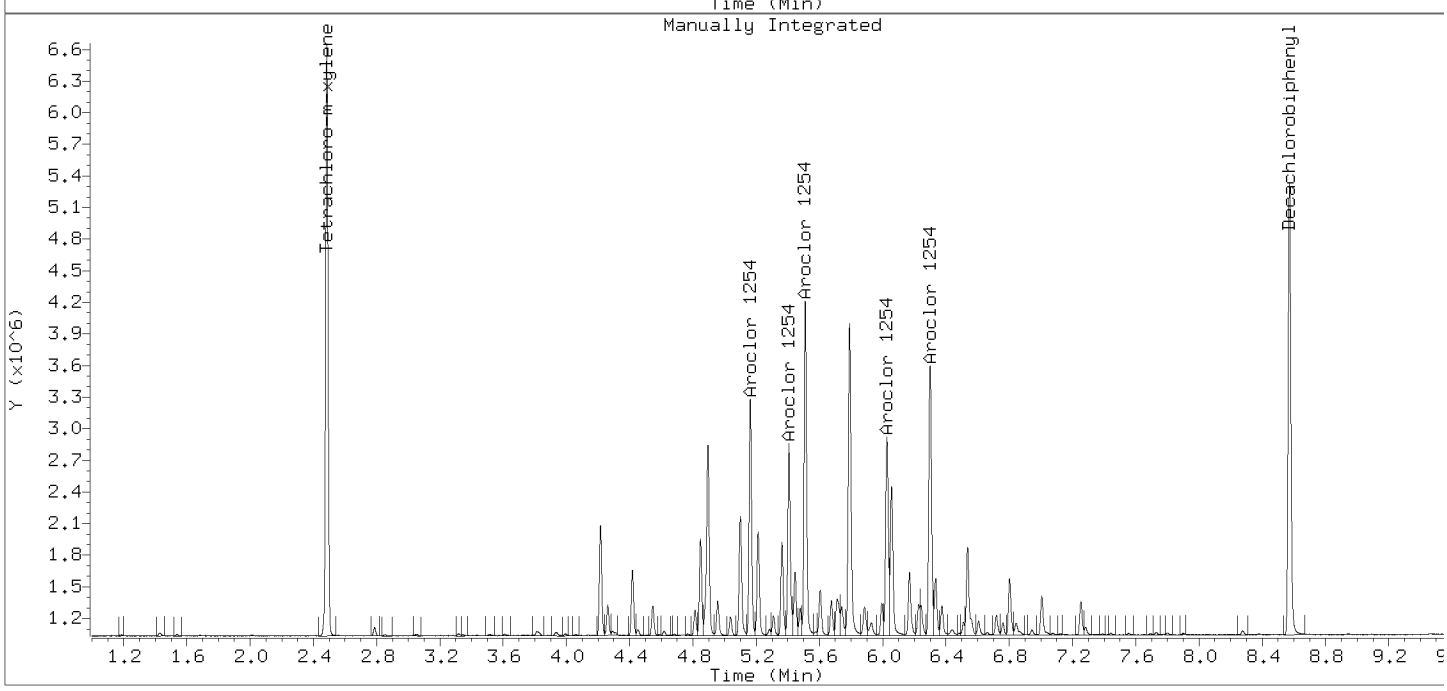
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Date : 06-MAR-2018 21:00
Client ID: 1254-ICV
Sample Info: 1254-ICV, 185564:1

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.

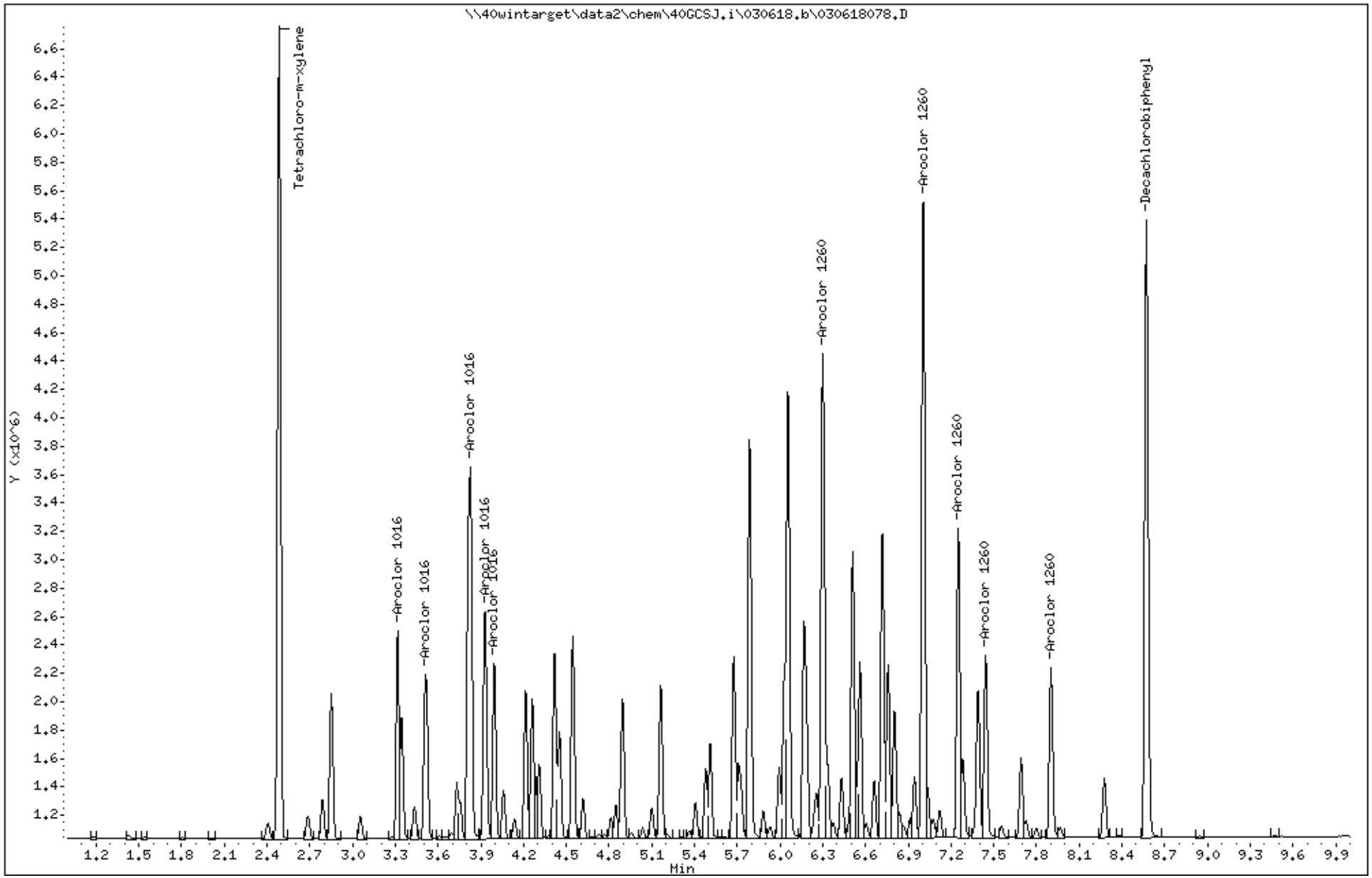
QC Flag Legend

Review Codes Legend

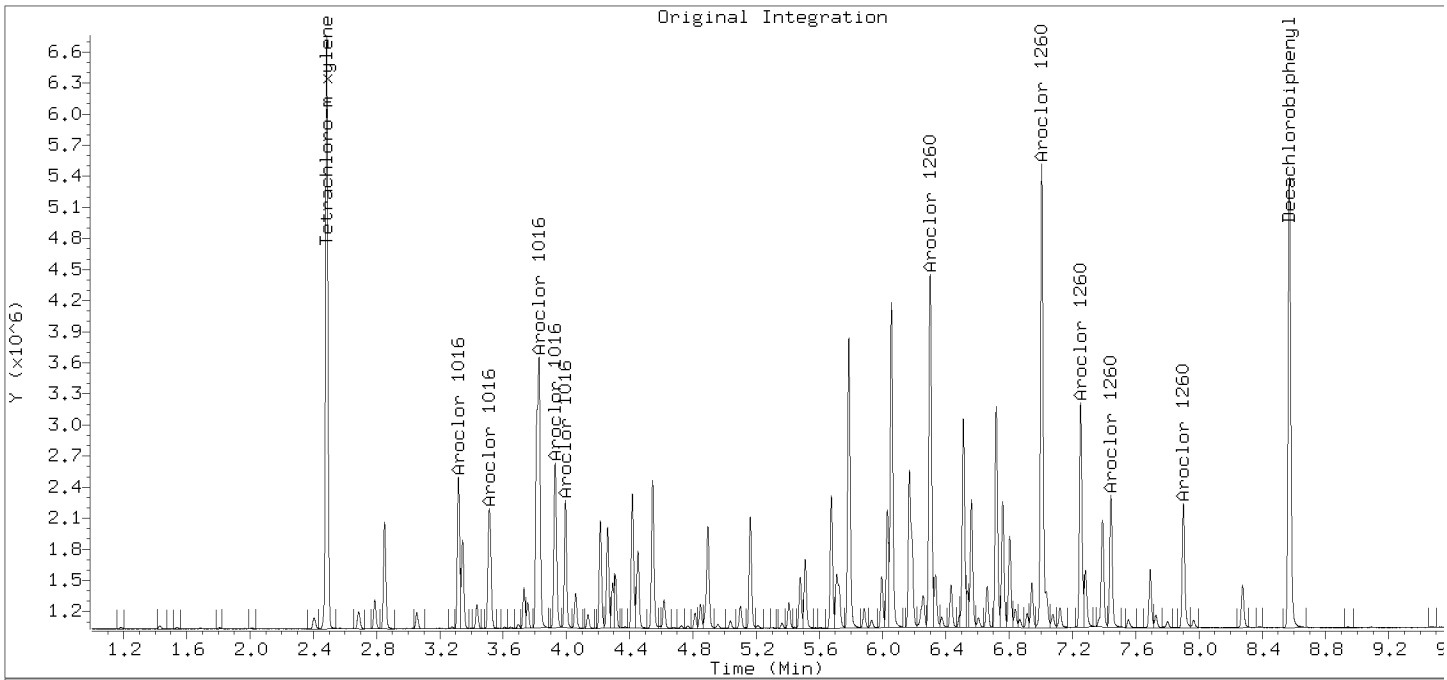
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

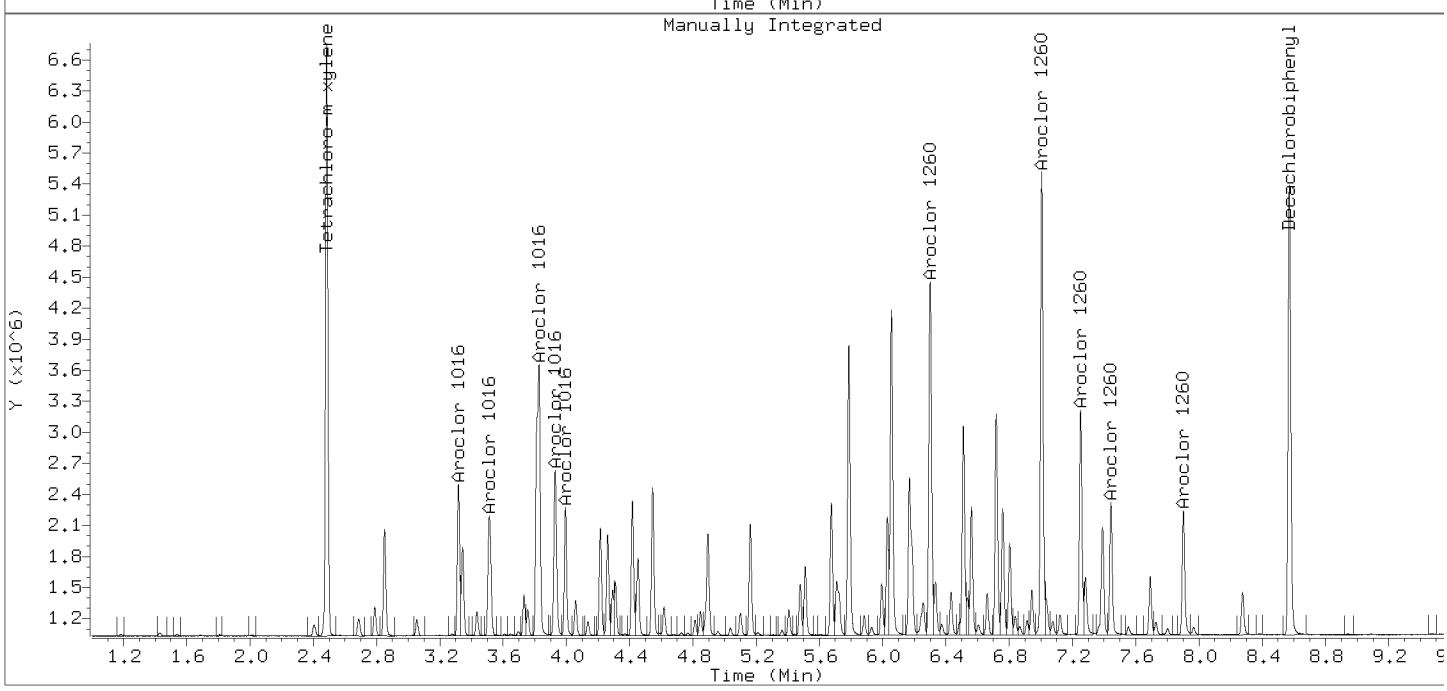
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	47537	36386	0.765	0.12		
1.431	34071	30996	0.910	0.08		
1.537	23782	16295	0.685	0.06		
1.686	19523	18852	0.966	0.05		
1.804	13553	12000	0.885	0.03		
2.010	25710	17582	0.684	0.06		
2.405	122316	91466	0.748	0.31		
2.484	5969109	5729938	0.960	15.88	$ 2 Tetrachloro-m-xylene	
2.687	171691	142551	0.830	0.44		
2.788	266038	251563	0.946	0.69		
2.850	928130	860330	0.927	2.41		
3.030	9298	9246	0.994	0.02		
3.054	137243	126924	0.925	0.35		
3.277	24967	18499	0.741	0.06		
3.318	1276490	1191897	0.934	3.31	3 Aroclor 1242	BA
3.344	727563	683689	0.940	1.89		
3.435	202188	182850	0.904	0.52		
3.513	1261881	906771	0.719	3.27	3 Aroclor 1242	BA
3.609	20578	18722	0.910	0.05		
3.645	20839	16895	0.811	0.05		
3.695	35496	37348	1.052	0.09		
3.731	322022	315106	0.979	0.83		
3.755	204643	198166	0.968	0.53		
3.826	3561407	2085011	0.585	9.25	3 Aroclor 1242	BA
3.928	1527637	1243480	0.814	3.97	3 Aroclor 1242	BA
3.994	1022344	971583	0.950	2.65	3 Aroclor 1242	BA
4.059	305638	267848	0.876	0.79		
4.136	120161	106523	0.887	0.31		
4.214	850376	783754	0.922	2.21		
4.261	816845	785877	0.962	2.12		
4.292	318376	350236	1.100	0.82		
4.310	445172	385531	0.866	1.15		
4.370	25042	20782	0.830	0.06		
4.417	1117389	1056118	0.945	2.90		
4.452	871962	643862	0.738	2.26		
4.545	1469124	1329484	0.905	3.81		
4.618	337572	301895	0.894	0.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	22931	18966	0.827	0.05	
4.725	70888	59009	0.832	0.18	
4.769	81572	75761	0.929	0.21	
4.813	668602	635712	0.951	1.73	
4.848	1147158	1078495	0.940	2.98	
4.879	1499236	1086023	0.724	3.89	
4.958	181808	131797	0.725	0.47	
5.037	1216160	1107589	0.911	3.16	
5.099	273516	209972	0.768	0.71	
5.162	310249	275455	0.888	0.80	
5.213	234347	209922	0.896	0.60	
5.286	19361	20123	1.039	0.05	
5.311	57711	45006	0.780	0.15	
5.363	203953	171215	0.839	0.53	
5.406	334512	285150	0.852	0.86	
5.447	218635	182548	0.835	0.56	
5.509	543162	412066	0.759	1.41	
5.604	166982	138964	0.832	0.43	
5.713	39916	27371	0.686	0.10	
5.742	46903	38646	0.824	0.12	
5.792	377948	302875	0.801	0.98	
5.891	46881	33797	0.721	0.12	
5.991	12860	12654	0.984	0.03	
6.025	306599	253744	0.828	0.79	
6.056	66608	54454	0.818	0.17	
6.168	31958	21225	0.664	0.08	
6.226	26828	16286	0.607	0.06	
6.299	102864	85183	0.828	0.26	
6.333	22218	18437	0.830	0.05	
6.376	12987	12359	0.952	0.03	
6.440	12993	9648	0.743	0.03	
6.538	39899	30451	0.763	0.10	
6.801	23279	19654	0.844	0.06	
7.004	10373	8347	0.805	0.02	
7.130	22022	13808	0.627	0.05	
7.252	16455	10003	0.608	0.04	
7.727	22510	19834	0.881	0.05	
7.801	11567	12711	1.099	0.03	
8.273	51945	38191	0.735	0.13	
8.378	24040	17476	0.727	0.06	
8.570	5170561	4324165	0.836	13.43	$ 12 Decachlorobiphenyl
8.938	27108	15441	0.570	0.07	
9.467	21603	15652	0.725	0.05	
9.960	19905	14335	0.720	0.05	
	38473325	32816576		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5969108	0.05000	0.048			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1276490	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1261880	0.50000	0.50	0.00- 20.00	98.86	BA
3.826	3.827	-0.001	3561406	0.50000	0.50	0.00- 20.00	279.00	BA
3.928	3.929	-0.001	1527637	0.50000	0.50	0.00- 20.00	119.67	BA
3.994	3.995	-0.001	1022343	0.50000	0.50	0.00- 20.00	80.09	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5170560	0.05000	0.047			

QC Flag Legend

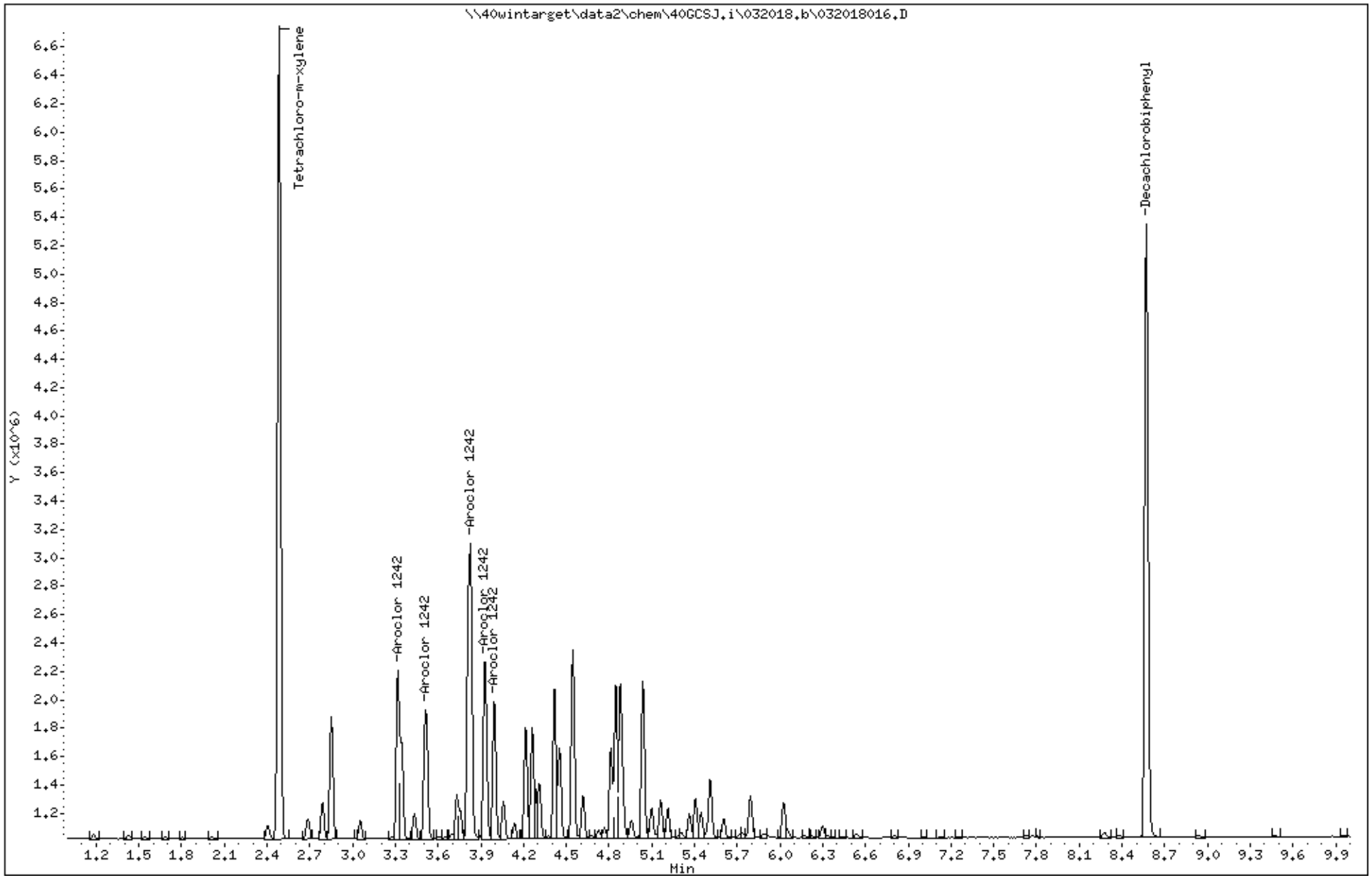
M - Compound response manually integrated.

Review Codes Legend

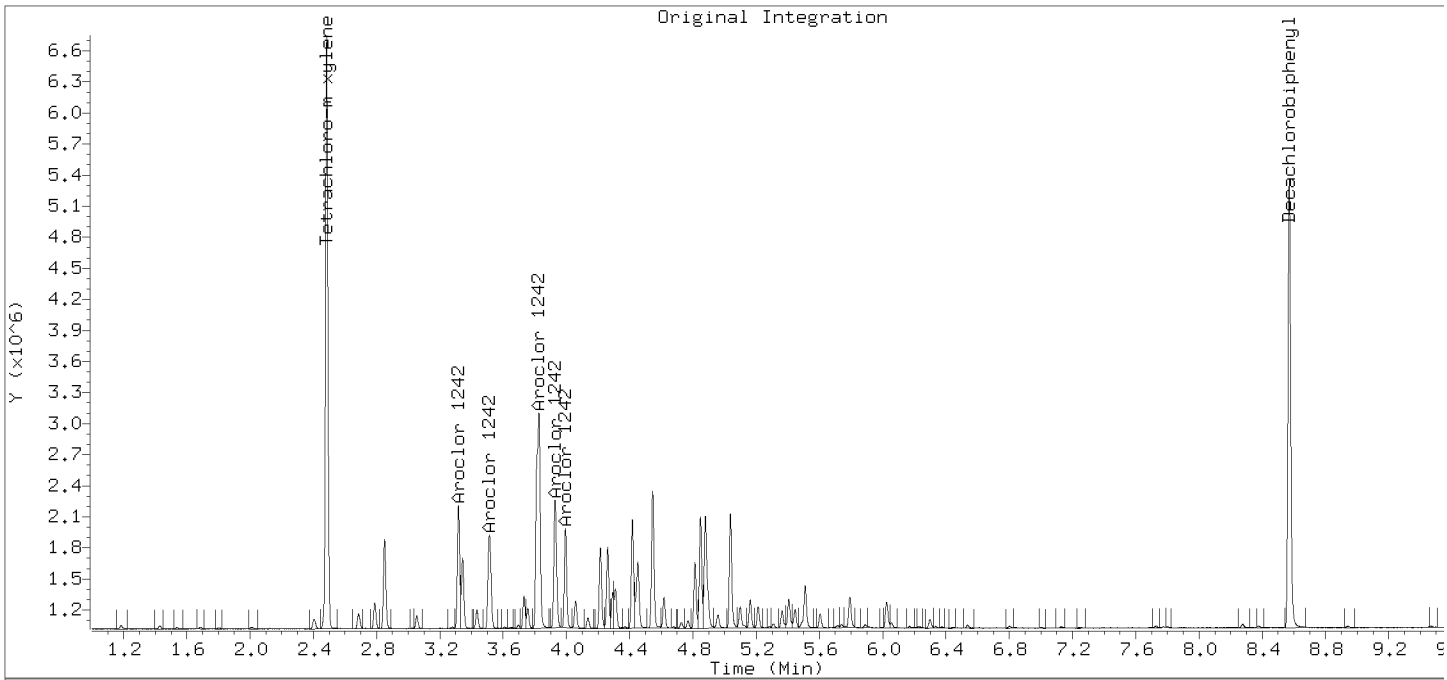
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

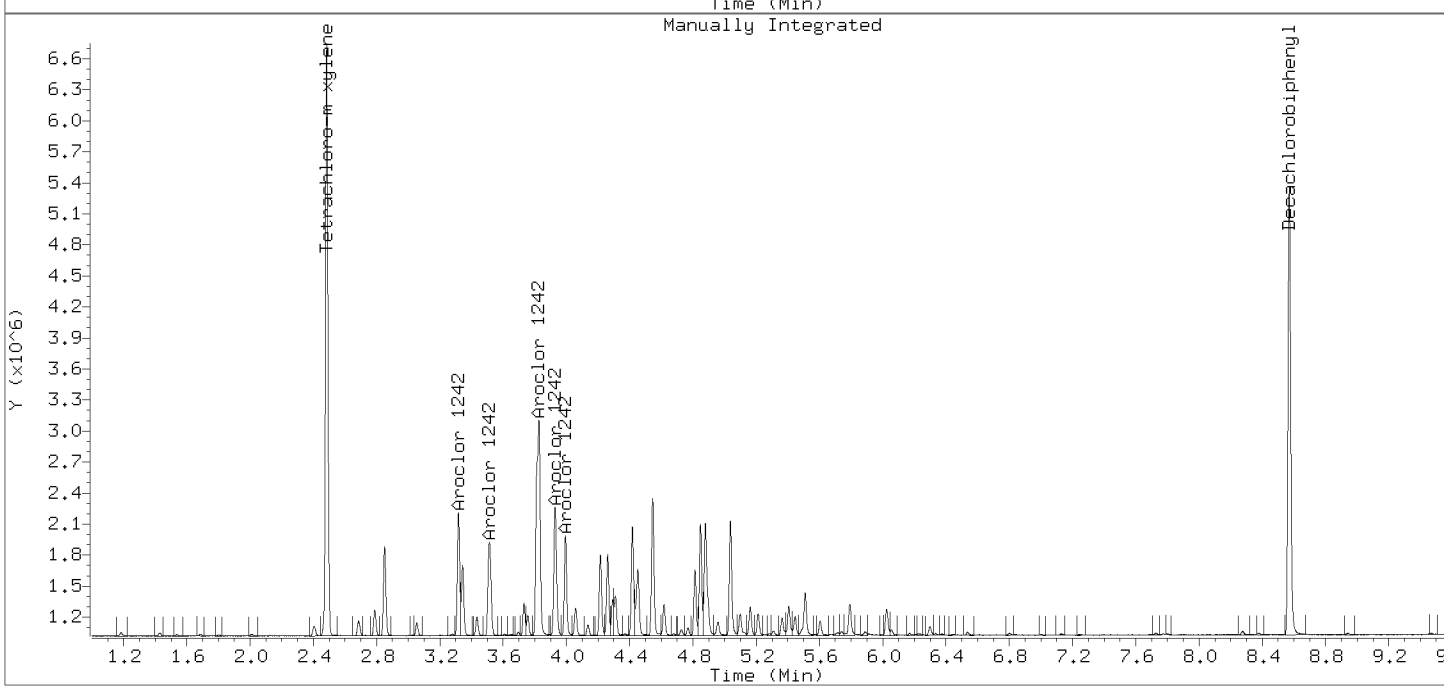
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Date : 20-MAR-2018 16:29
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 20-MAR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Tetrachloro-m-xylene	5969108	5969108	
Decachlorobiphenyl	5170560	5170560	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 20-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	26845	19627	0.731	0.06		
1.429	44298	32220	0.727	0.10		
1.536	17714	14819	0.837	0.04		
1.685	20228	16198	0.801	0.04		
2.009	23262	12693	0.546	0.05		
2.406	25126	19409	0.772	0.05		
2.484	5985102	5625757	0.940	14.02	$ 2 Tetrachloro-m-xylene	
2.684	36648	26192	0.715	0.08		
2.787	113057	104480	0.924	0.25		
2.849	192353	169316	0.880	0.43		
3.029	10404	12208	1.173	0.02		
3.053	59266	54267	0.916	0.13		
3.317	704672	672444	0.954	1.59		
3.343	298847	277232	0.928	0.67		
3.434	65163	59020	0.906	0.14		
3.514	591619	427885	0.723	1.34		
3.612	14316	16374	1.144	0.03		
3.648	12218	8036	0.658	0.02		
3.731	136771	134787	0.985	0.31		
3.754	62009	56481	0.911	0.14		
3.814	1079993	1201131	1.112	2.45		
3.826	1292440	1278810	0.989	2.93		
3.930	897262	690179	0.769	2.03		
3.994	595560	575558	0.966	1.35		
4.058	345569	308745	0.893	0.78		
4.135	146316	130649	0.893	0.33		
4.214	1484117	1387782	0.935	3.36		
4.261	1185176	1113251	0.939	2.68	6 Aroclor 1248	BA
4.293	474727	492723	1.038	1.07		
4.309	533632	494140	0.926	1.21		
4.417	1806540	1680321	0.930	4.09		
4.451	903053	770702	0.853	2.04		
4.545	2073327	1869030	0.901	4.70	6 Aroclor 1248	BA
4.588	32321	33960	1.051	0.07		
4.617	477358	433086	0.907	1.08		
4.681	31142	21409	0.687	0.07		
4.728	64357	50493	0.785	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	112351	104099	0.927	0.25	
4.812	1021016	965123	0.945	2.31	6 Aroclor 1248
4.847	1969906	1832720	0.930	4.47	
4.879	2542829	1673313	0.658	5.77	6 Aroclor 1248
4.957	309539	248209	0.802	0.70	
5.037	1808870	1620476	0.896	4.10	6 Aroclor 1248
5.098	651725	520676	0.799	1.47	
5.162	773289	687431	0.889	1.75	
5.212	559032	501854	0.898	1.26	
5.284	44393	39223	0.884	0.10	
5.307	121920	104021	0.853	0.27	
5.363	492683	421348	0.855	1.11	
5.406	811430	714789	0.881	1.84	
5.445	505282	437293	0.865	1.14	
5.509	1357895	1090191	0.803	3.08	
5.604	392423	334758	0.853	0.89	
5.675	51459	41343	0.803	0.11	
5.715	84062	63941	0.761	0.19	
5.739	98889	88417	0.894	0.22	
5.791	946988	742231	0.784	2.14	
5.890	129821	77388	0.596	0.29	
5.993	33491	29394	0.878	0.07	
6.023	759713	651878	0.858	1.72	
6.054	160165	132921	0.830	0.36	
6.168	85208	54003	0.634	0.19	
6.227	57224	29727	0.519	0.12	
6.299	237304	196726	0.829	0.53	
6.331	49336	39719	0.805	0.11	
6.372	43775	29932	0.684	0.09	
6.436	25900	15406	0.595	0.05	
6.509	42096	37093	0.881	0.09	
6.536	94671	65534	0.692	0.21	
6.601	15476	12447	0.804	0.03	
6.718	42063	33590	0.799	0.09	
6.759	21567	17514	0.812	0.04	
6.802	38319	32726	0.854	0.08	
6.843	12703	11632	0.916	0.02	
7.004	74850	62324	0.833	0.16	
7.127	13875	9887	0.713	0.03	
7.251	25433	23576	0.927	0.05	
7.388	32651	27935	0.856	0.07	
7.442	32090	29279	0.912	0.07	
7.687	17429	13430	0.771	0.03	
7.727	29025	24210	0.834	0.06	
7.768	11538	8089	0.701	0.02	
7.799	21755	15904	0.731	0.04	
7.903	25487	22957	0.901	0.05	
8.275	61398	49178	0.801	0.13	
8.380	20081	14778	0.736	0.04	
8.571	5325725	4487616	0.843	12.08	$ 12 Decachlorobiphenyl
8.936	9665	9064	0.938	0.02	
	44068623	38788727		100.000	

Total unknown % area = 54

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 20-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	5985102	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1185176	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2073327	0.50000	0.50	0.00- 20.00	174.94	BA
4.811	4.812	-0.001	1021015	0.50000	0.50	0.00- 20.00	86.15	BA
4.879	4.879	0.000	2542828	0.50000	0.50	0.00- 20.00	214.55	BA
5.036	5.038	-0.002	1808869	0.50000	0.50	0.00- 20.00	152.62	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5325724	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D

Date : 20-MAR-2018 19:39

Client ID: 1248-CCV

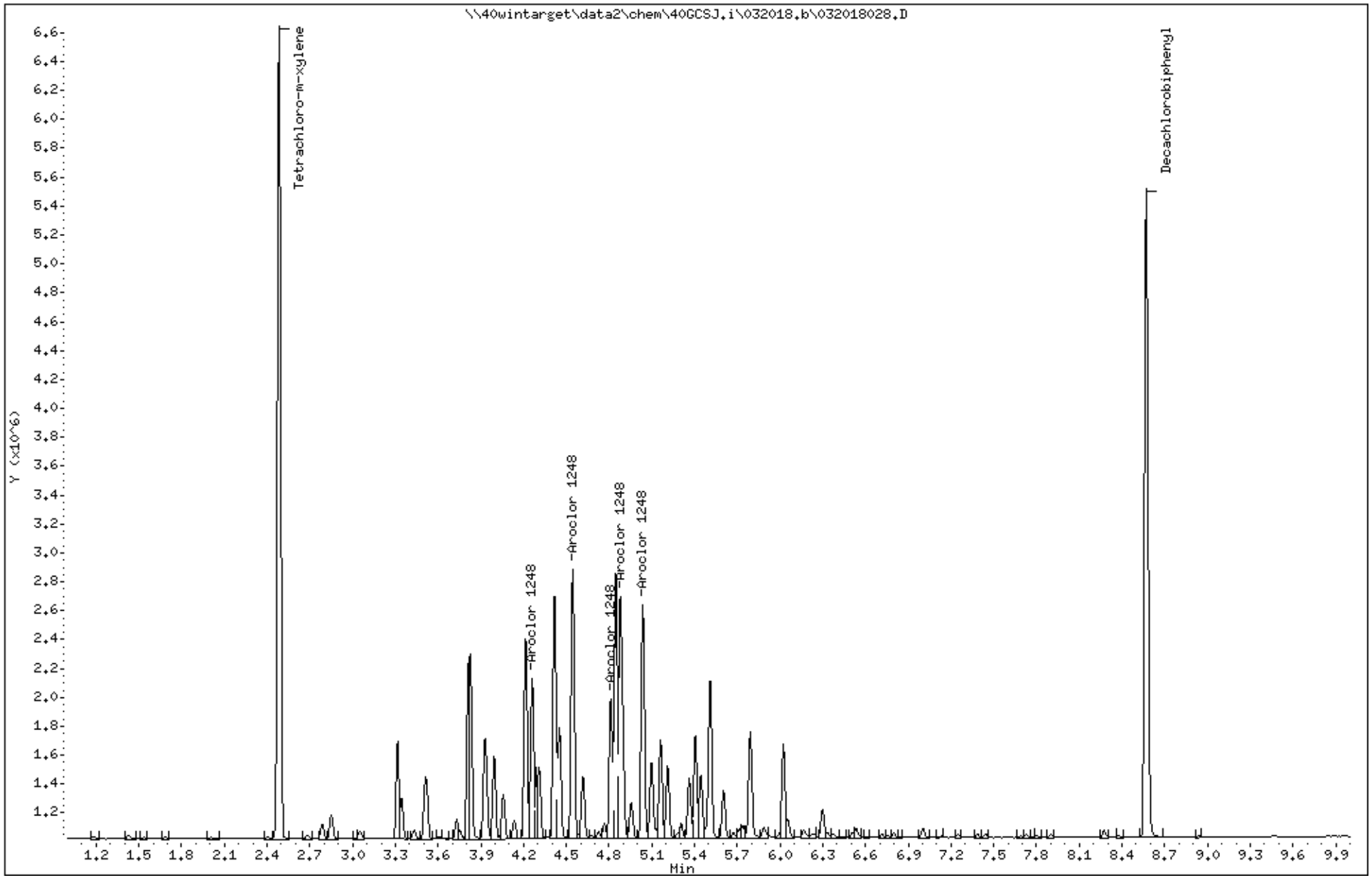
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

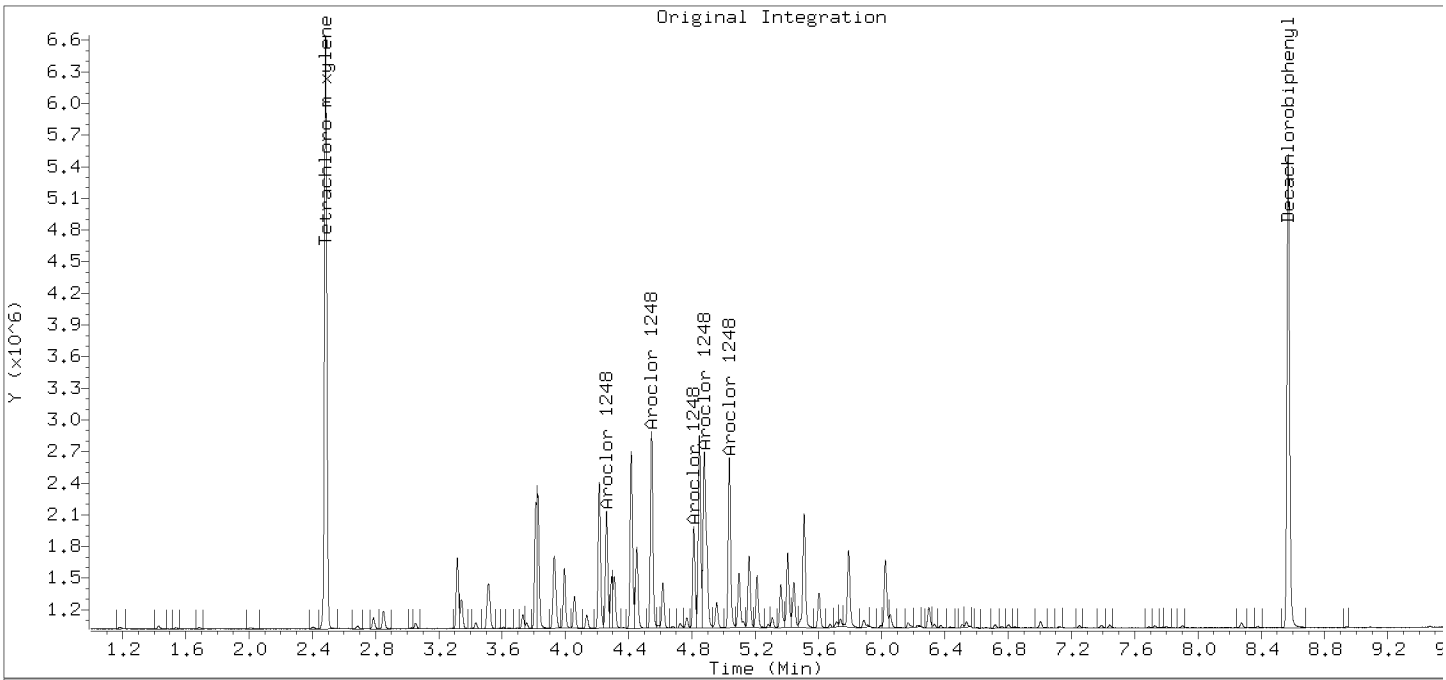
Operator: BLM

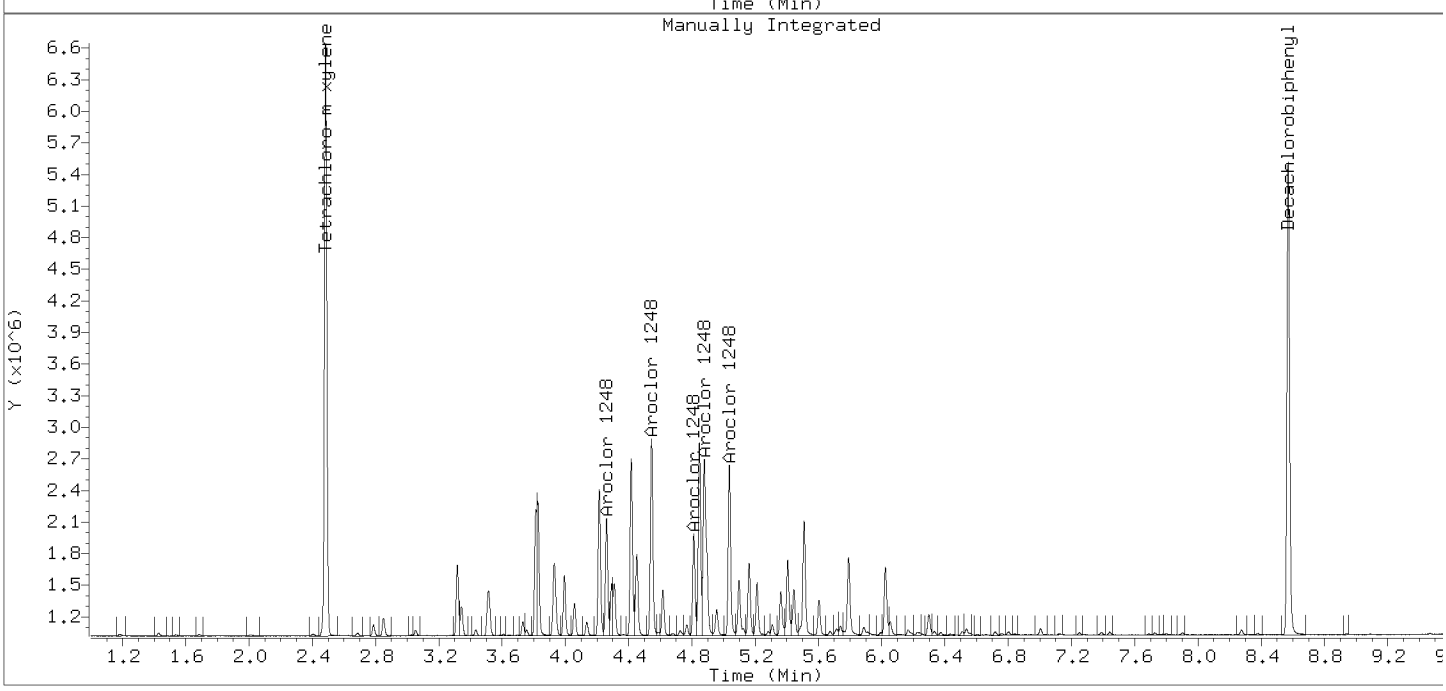
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 20-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Tetrachloro-m-xylene	5985102	5985102	
Decachlorobiphenyl	5325724	5325724	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 20-MAR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	24210	15793	0.652	0.04		
1.427	39574	31894	0.806	0.07		
1.541	19593	13642	0.696	0.03		
1.686	17638	14956	0.848	0.03		
2.016	10301	8638	0.839	0.01		
2.484	6094067	5721654	0.939	11.72	$ 2 Tetrachloro-m-xylene	
2.785	95433	84181	0.882	0.17		
2.852	23953	18967	0.792	0.04		
3.052	20325	18773	0.924	0.03		
3.318	35061	31529	0.899	0.06		
3.344	24472	19661	0.803	0.04		
3.510	21570	19077	0.884	0.03		
3.609	21094	19827	0.940	0.03		
3.732	9411	10274	1.092	0.01		
3.775	14024	13209	0.942	0.02		
3.815	107988	59128	0.548	0.19		
3.932	62699	41564	0.663	0.11		
3.993	33073	26935	0.814	0.06		
4.053	29761	22664	0.762	0.05		
4.215	1245578	1184178	0.951	2.30		
4.261	333154	323509	0.971	0.61		
4.291	66178	47703	0.721	0.12		
4.416	769262	738576	0.960	1.42		
4.451	75247	67932	0.903	0.13		
4.545	342776	326448	0.952	0.63		
4.592	14556	14398	0.989	0.02		
4.616	62946	55454	0.881	0.11		
4.680	24001	16535	0.689	0.04		
4.734	10434	8405	0.806	0.01		
4.768	19561	19144	0.979	0.03		
4.812	294542	288994	0.981	0.54		
4.847	1137586	1078352	0.948	2.10		
4.894	2442272	1960740	0.803	4.51		
4.956	391332	349014	0.892	0.72		
5.036	244264	224764	0.920	0.45		
5.098	1436813	1236846	0.861	2.65		
5.162	2644481	2429274	0.919	4.88	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.211	1210379	1090986	0.901	2.23	
5.283	59157	59779	1.011	0.10	
5.308	219031	203594	0.930	0.40	
5.362	1054973	994765	0.943	1.94	
5.406	2194746	1952680	0.890	4.05	7 Aroclor 1254
5.444	747044	676143	0.905	1.38	
5.476	267616	258054	0.964	0.49	
5.508	3940256	3590268	0.911	7.28	7 Aroclor 1254
5.603	544991	491809	0.902	1.00	
5.674	349640	321180	0.919	0.64	
5.712	543021	356838	0.657	1.00	
5.740	347064	282980	0.815	0.64	
5.789	4005882	3172500	0.792	7.40	
5.884	347244	275897	0.795	0.64	
5.926	180985	115351	0.637	0.33	
5.993	333795	322046	0.965	0.61	
6.026	2558090	2159666	0.844	4.72	7 Aroclor 1254
6.055	1784876	1497071	0.839	3.29	
6.167	714968	628587	0.879	1.32	
6.226	564755	299107	0.530	1.04	
6.298	3353644	2889054	0.861	6.19	7 Aroclor 1254
6.333	589732	531852	0.902	1.08	
6.373	329457	292689	0.888	0.60	
6.437	82019	51901	0.633	0.15	
6.509	123524	125334	1.015	0.22	
6.534	1144279	868284	0.759	2.11	
6.604	161987	137884	0.851	0.29	
6.659	26285	22206	0.845	0.04	
6.717	219555	196215	0.894	0.40	
6.758	132397	118585	0.896	0.24	
6.800	637391	584918	0.918	1.17	
6.842	163660	118998	0.727	0.30	
6.943	60075	48685	0.810	0.11	
7.004	452664	385952	0.853	0.83	
7.073	25117	21921	0.873	0.04	
7.251	373449	340614	0.912	0.69	
7.282	77751	68448	0.880	0.14	
7.328	11545	8102	0.702	0.02	
7.392	20042	15764	0.787	0.03	
7.444	23085	21696	0.940	0.04	
7.554	24742	17121	0.692	0.04	
7.693	15347	14654	0.955	0.02	
7.728	30182	24582	0.814	0.05	
7.777	12934	11072	0.856	0.02	
7.801	13560	13242	0.977	0.02	
7.898	24908	21472	0.862	0.04	
8.274	49124	43900	0.894	0.09	
8.378	24095	16982	0.705	0.04	
8.570	5550288	4667139	0.841	10.25	$ 12 Decachlorobiphenyl
8.938	31635	20672	0.653	0.05	
9.087	10692	9027	0.844	0.01	
9.462	44655	26902	0.602	0.08	
9.957	53890	34380	0.638	0.09	
	54121455	47082180		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018040.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 20-MAR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	6094067	0.05000	0.049			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2644480	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2194746	0.50000	0.51	0.00- 20.00	82.99	BA
5.508	5.510	-0.002	3940255	0.50000	0.51	0.00- 20.00	149.00	BA
6.025	6.027	-0.002	2558089	0.50000	0.52	0.00- 20.00	96.73	BA
6.297	6.299	-0.002	3353644	0.50000	0.52	0.00- 20.00	126.82	BA
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5550288	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018040.D

Date : 20-MAR-2018 22:49

Client ID: 1254-CCV

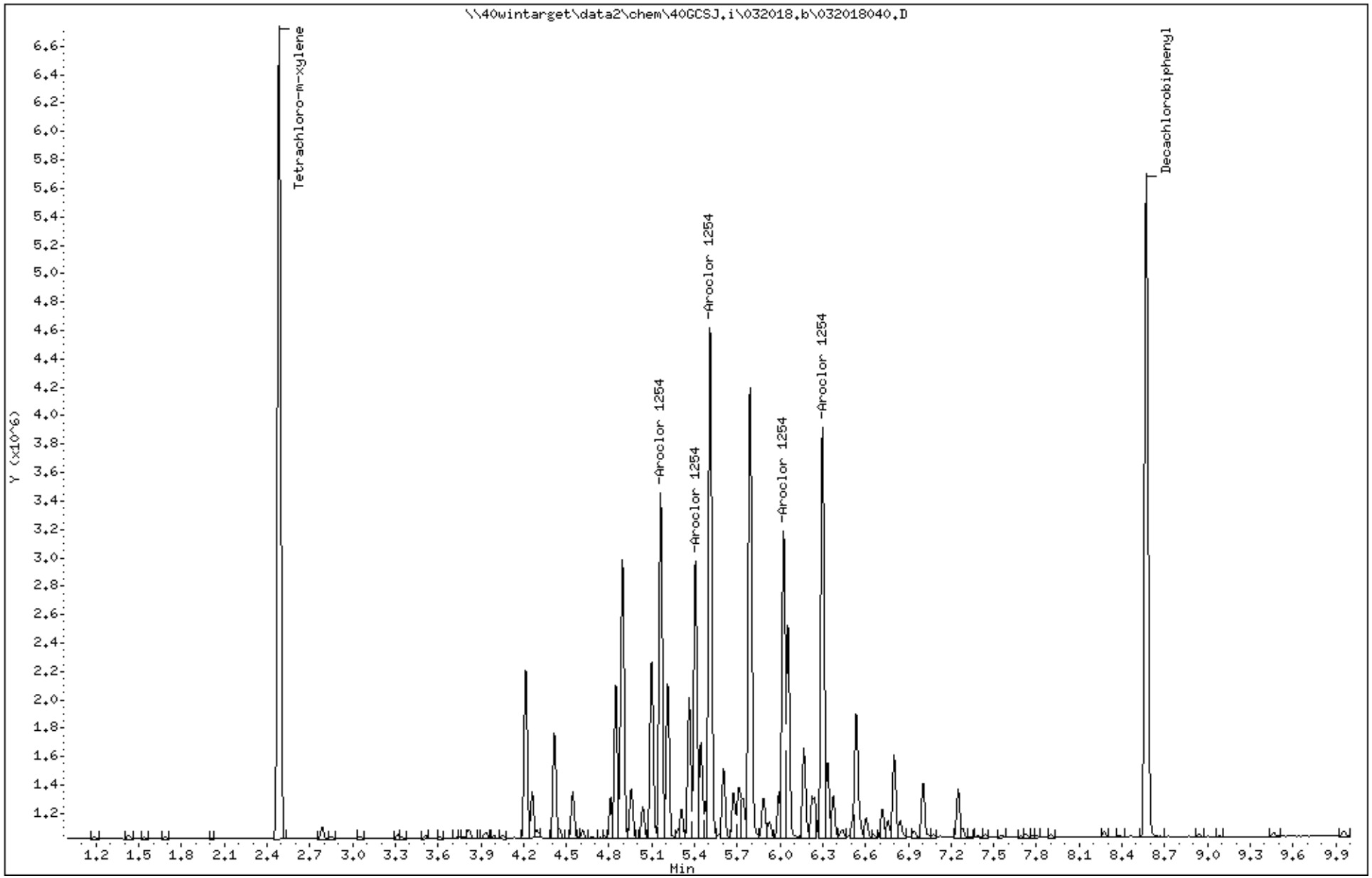
Instrument: 40GCSJ.i

Sample Info: 1254-CCV, 185554:1

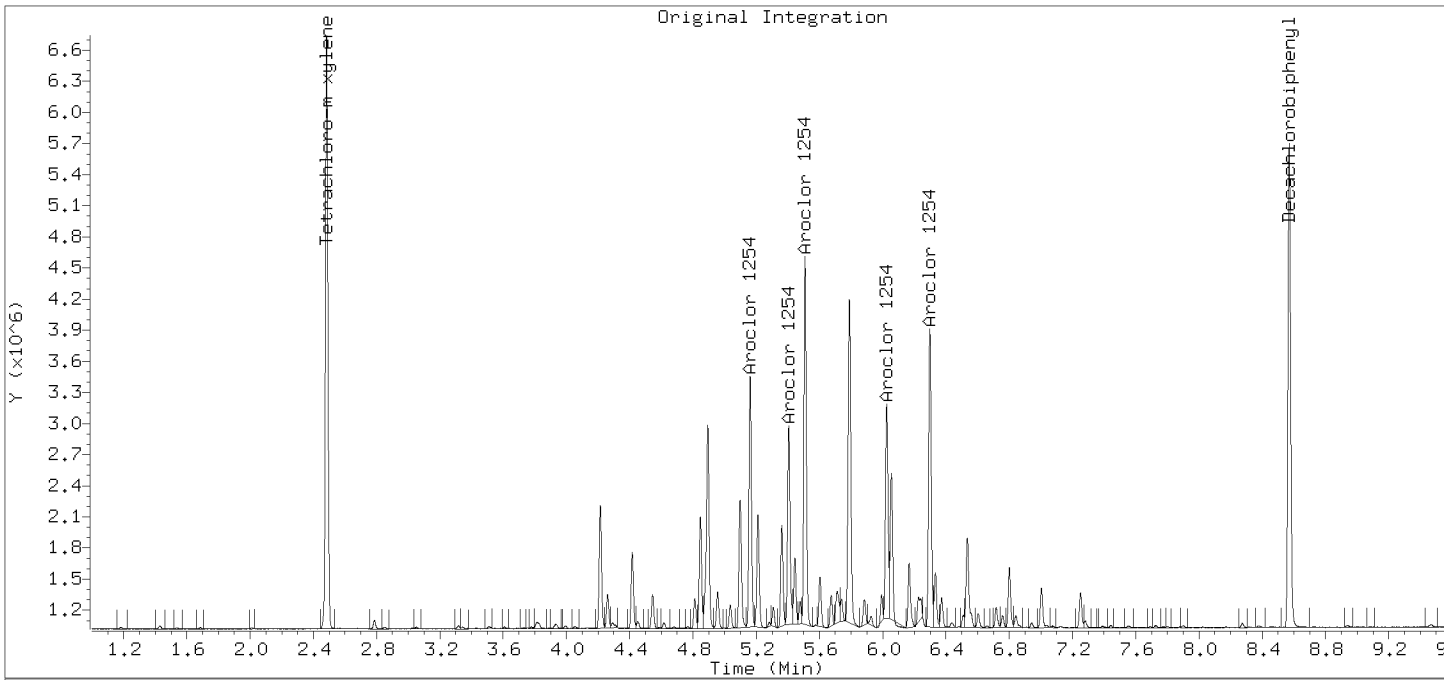
Operator: BLM

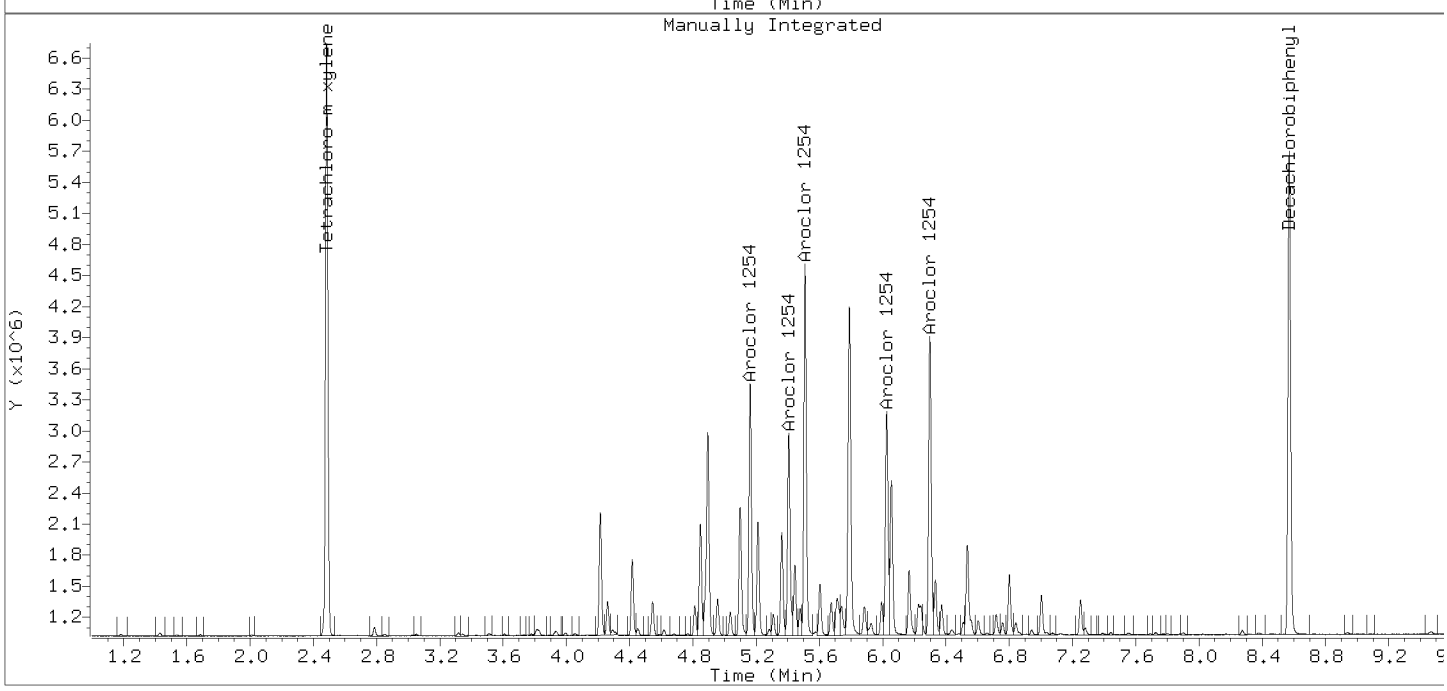
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018040.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 20-MAR-2018 22:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Aroclor 1254	2596426	2644480	BA
Tetrachloro-m-xylene	6094067	6094067	
Decachlorobiphenyl	5550288	5550288	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018052.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 21-MAR-2018 01:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 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
1.183	33113	28637	0.865	0.03		
1.430	38317	30712	0.802	0.04		
1.539	22562	16896	0.749	0.02		
1.685	23004	22086	0.960	0.02		
1.804	16550	13174	0.796	0.01		
2.012	21647	16059	0.742	0.02		
2.404	146385	112033	0.765	0.16		
2.484	6341013	5976418	0.943	7.57	$ 2 Tetrachloro-m-xylene	
2.686	211413	173683	0.822	0.23		
2.788	318239	297210	0.934	0.35		
2.850	1182503	1095169	0.926	1.32		
3.054	171063	155730	0.910	0.19		
3.279	28635	20975	0.732	0.03		
3.317	1609485	1507228	0.936	1.79	5 Aroclor 1016	BA
3.343	918829	855810	0.931	1.02		
3.434	255885	232702	0.909	0.28		
3.512	1600143	1160020	0.725	1.78	5 Aroclor 1016	BA
3.609	23326	21442	0.919	0.02		
3.644	27965	18326	0.655	0.03		
3.694	44377	44425	1.001	0.04		
3.731	415029	414233	0.998	0.46		
3.755	274239	261604	0.954	0.30		
3.825	4680842	2770636	0.592	5.22	5 Aroclor 1016	BA
3.928	1989515	1677868	0.843	2.22	5 Aroclor 1016	BA
3.993	1336496	1278816	0.957	1.49	5 Aroclor 1016	BA
4.057	373210	338197	0.906	0.41		
4.136	146279	134570	0.920	0.16		
4.214	1161284	1093889	0.942	1.29		
4.260	1037047	974524	0.940	1.15		
4.292	426932	447063	1.047	0.47		
4.309	534954	503090	0.940	0.59		
4.370	30651	27918	0.911	0.03		
4.416	1436997	1357513	0.945	1.60		
4.451	1071960	827935	0.772	1.19		
4.545	1825157	1686706	0.924	2.03		
4.590	18683	22864	1.224	0.02		
4.617	406887	373943	0.919	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.677	23878	22164	0.928	0.02	
4.725	68915	55788	0.810	0.07	
4.766	56473	54610	0.967	0.06	
4.812	343085	328270	0.957	0.38	
4.847	523204	522499	0.999	0.58	
4.893	1659673	1233374	0.743	1.85	
4.955	100738	86649	0.860	0.11	
5.035	93799	91562	0.976	0.10	
5.099	345722	301119	0.871	0.38	
5.161	1378534	1275418	0.925	1.53	
5.210	63438	49678	0.783	0.07	
5.307	15360	15575	1.014	0.01	
5.361	95944	87533	0.912	0.10	
5.406	378619	344858	0.911	0.42	
5.443	16169	15546	0.961	0.01	
5.476	538846	507716	0.942	0.60	
5.509	952634	881233	0.925	1.06	
5.601	20837	14980	0.719	0.02	
5.674	1398563	1295303	0.926	1.56	
5.708	996300	542576	0.545	1.11	
5.784	3452168	3006572	0.871	3.85	
5.881	229701	209427	0.912	0.25	
5.927	108983	91804	0.842	0.12	
5.993	586456	570131	0.972	0.65	
6.028	1338009	1290264	0.964	1.49	
6.054	3826779	3473364	0.908	4.27	
6.167	2487115	1596305	0.642	2.77	
6.255	556104	317487	0.571	0.62	
6.298	4725355	3938849	0.834	5.27	8 Aroclor 1260
6.333	649302	579942	0.893	0.72	
6.373	156342	138688	0.887	0.17	
6.431	472102	416393	0.882	0.52	
6.484	104839	127650	1.218	0.11	
6.509	2295179	2033570	0.886	2.56	
6.534	433554	487298	1.124	0.48	
6.560	1412282	1254174	0.888	1.57	
6.604	150111	130732	0.871	0.16	
6.660	444253	396189	0.892	0.49	
6.716	2446711	2235116	0.914	2.73	
6.757	1371367	1222498	0.891	1.53	
6.802	1147289	1034192	0.901	1.28	
6.838	203203	173811	0.855	0.22	
6.867	102627	92168	0.898	0.11	
6.912	155689	149108	0.958	0.17	
6.942	490283	449702	0.917	0.54	
7.003	5405935	4817097	0.891	6.03	8 Aroclor 1260
7.035	333195	320824	0.963	0.37	
7.074	155950	132663	0.851	0.17	
7.121	236399	199898	0.846	0.26	
7.250	2618512	2378098	0.908	2.92	8 Aroclor 1260
7.280	697252	616781	0.885	0.77	
7.388	1279965	1072299	0.838	1.42	
7.441	1536219	1390763	0.905	1.71	8 Aroclor 1260
7.551	124504	99463	0.799	0.13	
7.690	627635	581183	0.926	0.70	
7.726	86526	72723	0.840	0.09	
7.798	71507	57851	0.809	0.07	

Data File: ...wintarget\data2\chem\40GCSJ.i\032018.b\032018052.D Page 3
Report Date: 03-Apr-2018 07:42

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.899	1413423	1242081	0.879	1.57	8 Aroclor 1260
7.964	97264	76819	0.790	0.10	
8.273	365543	332765	0.910	0.40	
8.374	27953	17469	0.625	0.03	
8.570	5797601	4906824	0.846	6.47	$ 12 Decachlorobiphenyl
8.937	19225	15306	0.796	0.02	
9.080	14725	9014	0.612	0.01	
9.463	24478	15761	0.644	0.02	
9.958	19084	16332	0.856	0.02	
	89570042	77504003		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018052.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 21-MAR-2018 01:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 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			
2.483	2.484	-0.001	6341013	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.316	3.318	-0.002	1609485	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.511	3.512	-0.001	1600142	0.50000	0.52	0.00- 20.00	99.42	BA
3.825	3.826	-0.001	4680841	0.50000	0.53	0.00- 20.00	290.83	BA
3.928	3.929	-0.001	1989515	0.50000	0.53	0.00- 20.00	123.61	BA
3.992	3.994	-0.002	1336496	0.50000	0.51	0.00- 20.00	83.04	BA
Average of Peak Amounts =					0.52200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	4725354	0.50000	0.53	0.00- 20.00	100.00(M)	BA
7.002	7.006	-0.004	5405934	0.50000	0.54	0.00- 20.00	114.40	BA
7.249	7.251	-0.002	2618511	0.50000	0.55	0.00- 20.00	55.41	BA
7.440	7.443	-0.003	1536218	0.50000	0.53	0.00- 20.00	32.51	BA
7.899	7.901	-0.002	1413422	0.50000	0.54	0.00- 20.00	29.91	BA
Average of Peak Amounts =					0.53800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5797601	0.05000	0.053			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018052.D

Date : 21-MAR-2018 01:59

Client ID: 1660-CCV

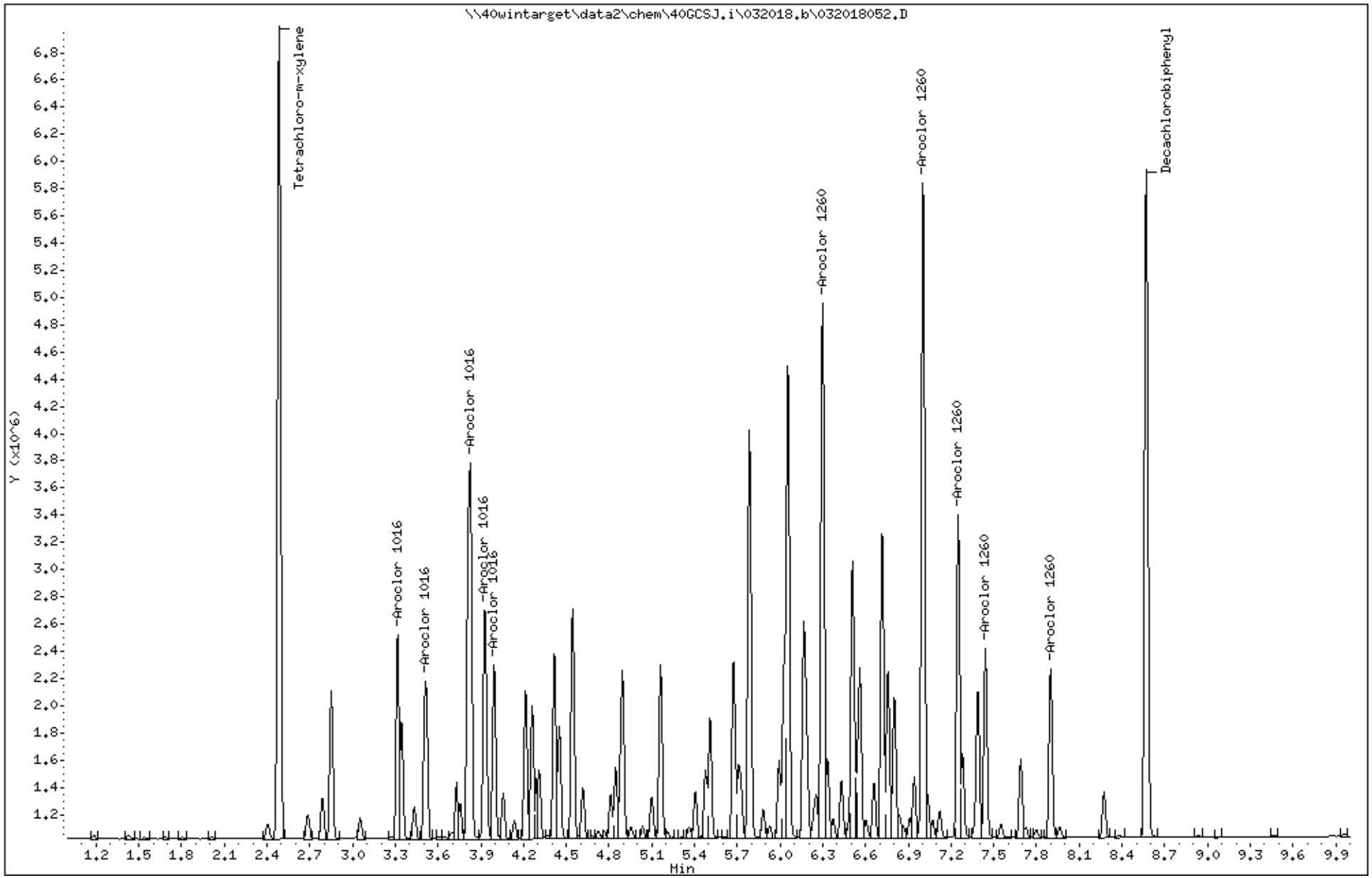
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

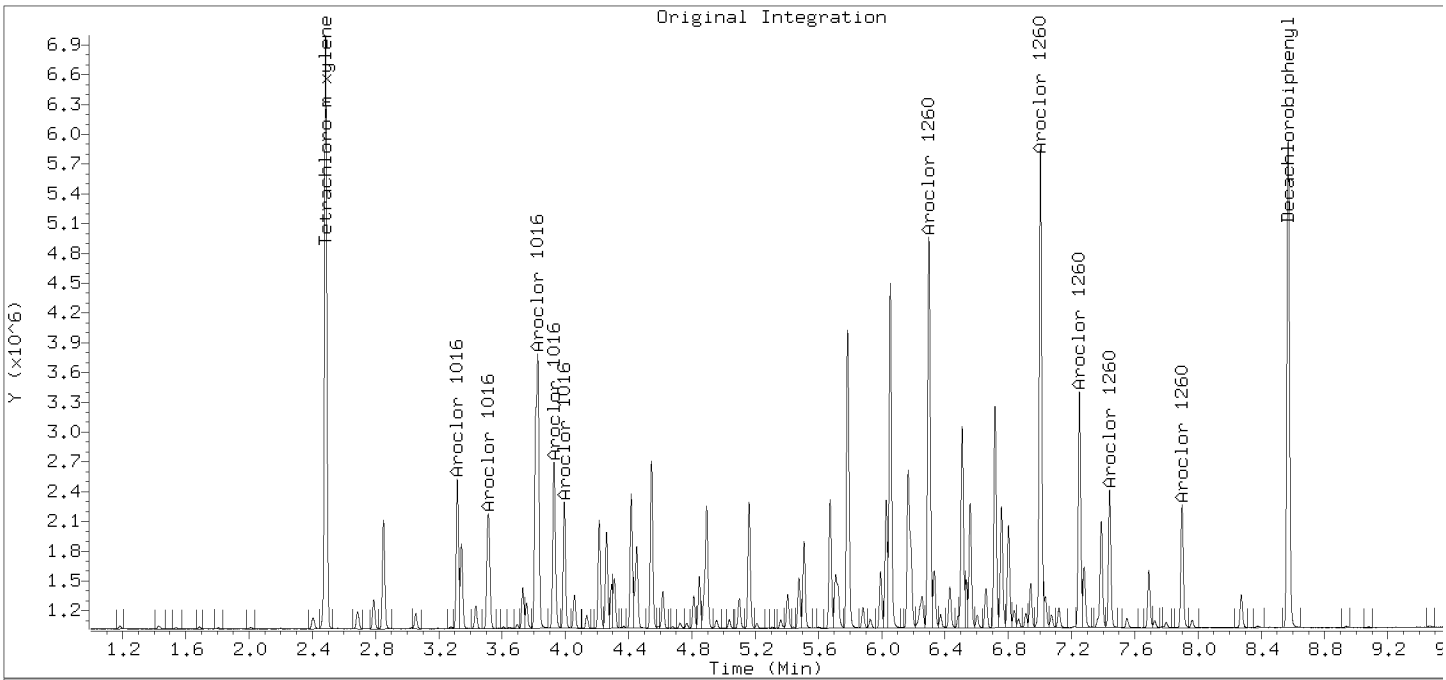
Operator: BLM

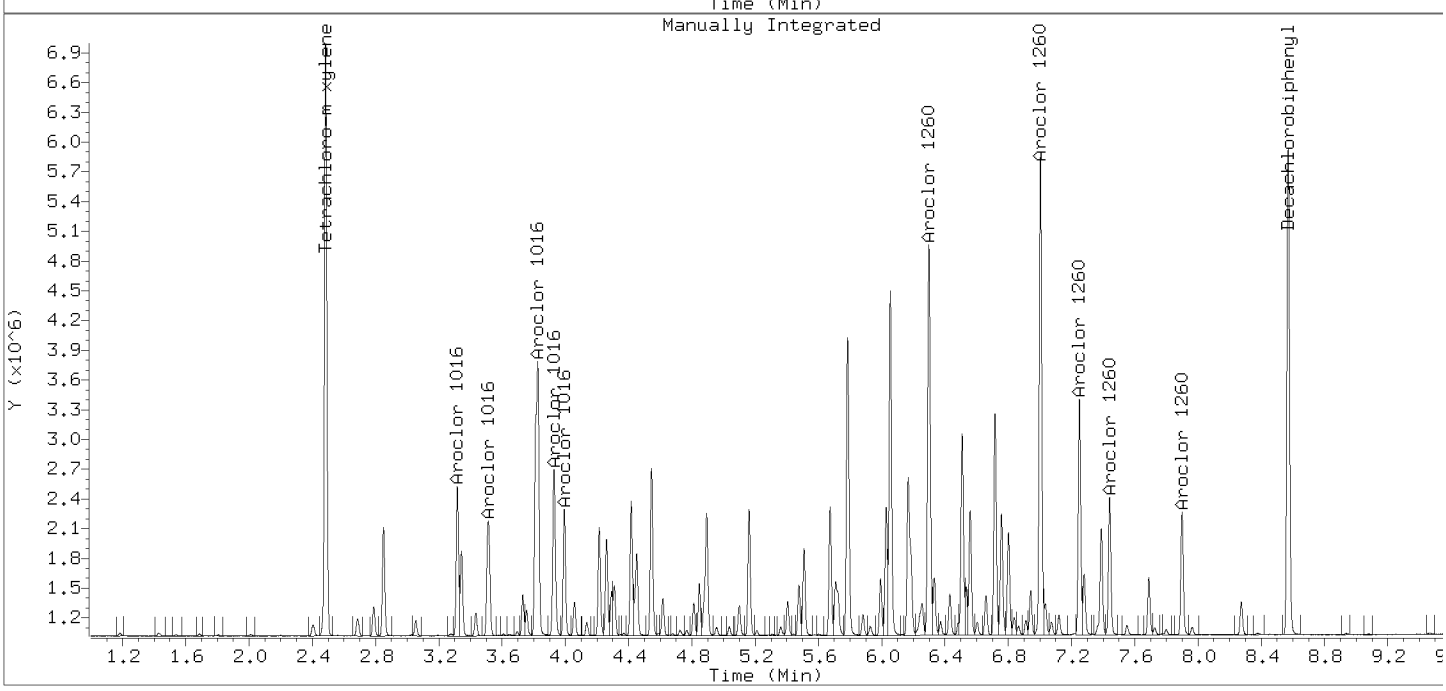
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018052.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 21-MAR-2018 01:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1600001	1609485	BA
Aroclor 1016	1600001	1609485	BA
Aroclor 1016	1600001	1609485	BA
Aroclor 1016	1600001	1609485	BA
Aroclor 1016	1600001	1609485	BA
Aroclor 1260	4710042	4725354	BA
Aroclor 1260	4710042	4725354	BA
Aroclor 1260	4710042	4725354	BA
Aroclor 1260	4710042	4725354	BA
Aroclor 1260	4710042	4725354	BA
Tetrachloro-m-xylene	6341013	6341013	
Decachlorobiphenyl	5797601	5797601	

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.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 1659955

Date Analyzed: 03/20/2018 18:36

Lab File ID: 032018.B\032018024.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018024.D
Lab Smp Id: 1659955 Client Smp ID: MB
Inj Date : 20-MAR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659955,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	13619	11690	0.858	0.07		
2.011	15606	9635	0.617	0.08		
2.484	9322963	9065387	0.972	48.97	$ 2 Tetrachloro-m-xylene	
2.786	17458	16507	0.946	0.09		
2.862	32305	22615	0.700	0.16		
2.917	12071	10271	0.851	0.06		
7.123	22988	15185	0.661	0.12		
7.728	40101	34441	0.859	0.21		
7.800	30450	24512	0.805	0.15		
8.275	77898	66175	0.850	0.40		
8.376	10767	11545	1.072	0.05		
8.571	9419048	7996274	0.849	49.54	$ 12 Decachlorobiphenyl	
8.937	10072	8741	0.868	0.05		
9.957	10352	8467	0.818	0.05		
	19035697	17301445		100.000		

Total unknown % area = 1.5

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018024.D
Lab Smp Id: 1659955 Client Smp ID: MB
Inj Date : 20-MAR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659955,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.483	2.484	-0.001	9322963	0.07562	38			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

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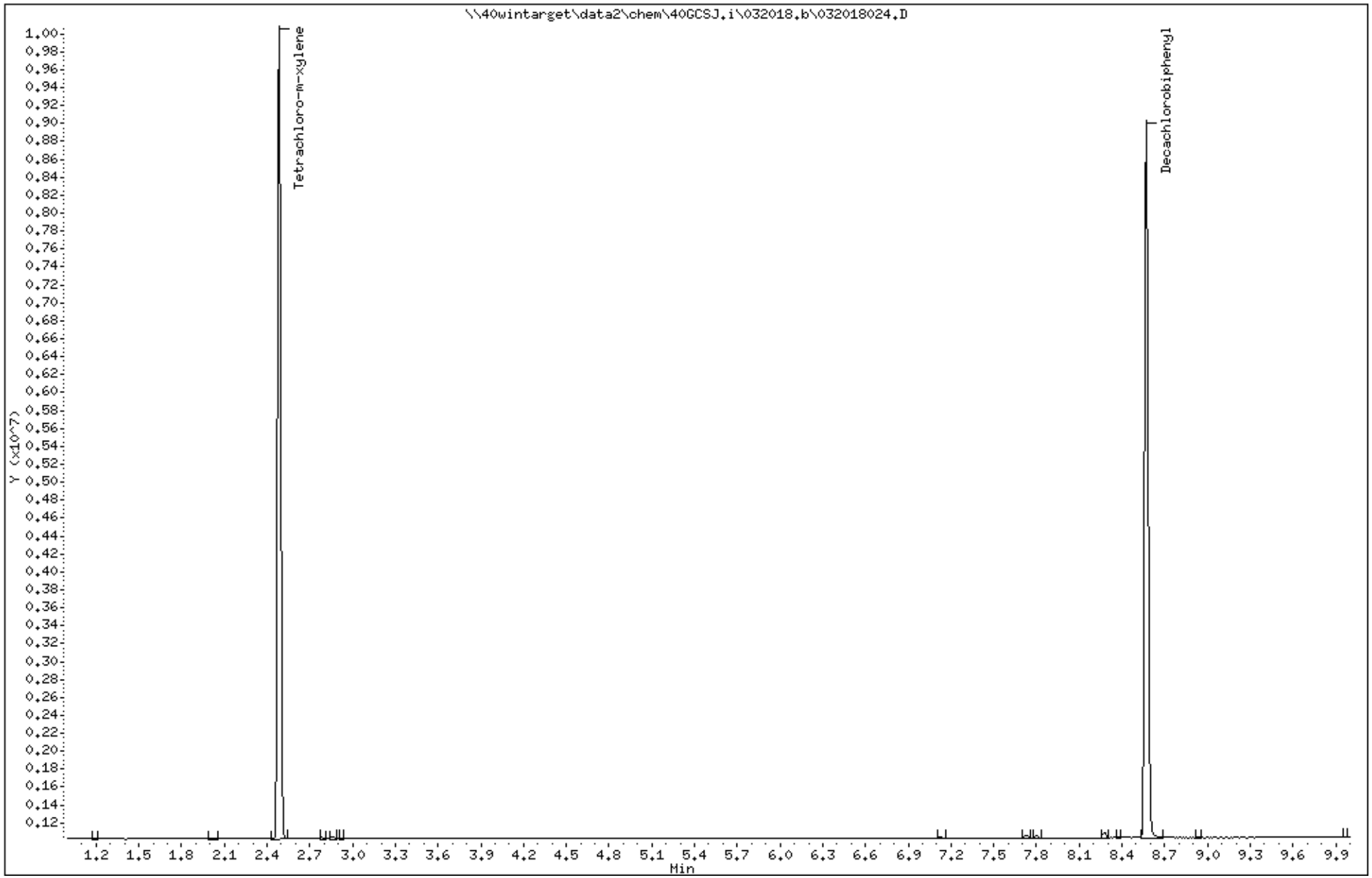
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9419048	0.08597		43		

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018024.D
Date : 20-MAR-2018 18:36
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1659955,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 18:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659955

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9322963	9322963	
Decachlorobiphenyl	9419048	9419048	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received:

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 1659956

Date Analyzed: 03/20/2018 18:52

Lab File ID: 032018.B\032018025.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	246	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018025.D
Lab Smp Id: 1659956 Client Smp ID: MBLCS
Inj Date : 20-MAR-2018 18:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659956,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	23571	15003	0.636	0.05		
1.432	12704	9856	0.776	0.02		
1.802	15819	14084	0.890	0.03		
2.194	14474	9435	0.652	0.03		
2.407	119116	88632	0.744	0.25		
2.485	10244660	9593751	0.936	22.38	$ 2 Tetrachloro-m-xylene	
2.687	184121	141915	0.771	0.39		
2.790	222272	199292	0.897	0.47		
2.851	978613	871337	0.890	2.10		
3.055	127089	111545	0.878	0.27		
3.274	25531	18455	0.723	0.05		
3.318	1251278	1152168	0.921	2.68	3 Aroclor 1242	BA
3.344	697599	649491	0.931	1.49		
3.435	203565	178587	0.877	0.43		
3.513	1228030	881723	0.718	2.63	3 Aroclor 1242	BA
3.651	22158	14515	0.655	0.04		
3.697	37092	35630	0.961	0.07		
3.732	319035	312864	0.981	0.68		
3.756	207421	199723	0.963	0.44		
3.827	3527402	2022319	0.573	7.57	3 Aroclor 1242	BA
3.929	1517023	1239789	0.817	3.25	3 Aroclor 1242	BA
3.995	1001488	938428	0.937	2.15	3 Aroclor 1242	BA
4.059	279147	247309	0.886	0.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	113013	98215	0.869	0.24	
4.215	825814	780726	0.945	1.77	
4.261	783090	753873	0.963	1.68	
4.293	315986	327371	1.036	0.67	
4.310	395640	360100	0.910	0.85	
4.372	25620	22395	0.874	0.05	
4.417	1090744	1026264	0.941	2.34	
4.452	841273	608235	0.723	1.80	
4.546	1394458	1242940	0.891	2.99	
4.618	326104	287262	0.881	0.70	
4.679	23088	17142	0.742	0.04	
4.727	73247	60493	0.826	0.15	
4.767	74204	69685	0.939	0.15	
4.813	634438	605615	0.955	1.36	
4.848	1123848	1058689	0.942	2.41	
4.879	1440511	1094399	0.760	3.09	
4.958	158311	119919	0.757	0.34	
5.038	1182924	1072126	0.906	2.54	
5.100	247209	186102	0.753	0.53	
5.162	278370	242284	0.870	0.59	
5.212	209070	181117	0.866	0.44	
5.285	17731	15901	0.897	0.03	
5.310	51311	40518	0.790	0.11	
5.363	180522	149105	0.826	0.38	
5.406	294901	250610	0.850	0.63	
5.448	185457	155670	0.839	0.39	
5.510	489792	355437	0.726	1.05	
5.604	150051	123709	0.824	0.32	
5.677	19062	13693	0.718	0.04	
5.713	31277	22828	0.730	0.06	
5.739	51427	33907	0.659	0.11	
5.793	314478	247645	0.787	0.67	
5.889	40961	29960	0.731	0.08	
6.025	293910	212478	0.723	0.63	
6.168	33950	18272	0.538	0.07	
6.299	64713	55029	0.850	0.13	
6.333	16716	12341	0.738	0.03	
6.511	10887	11196	1.028	0.02	
6.537	27100	16802	0.620	0.05	
6.712	12921	10361	0.802	0.02	
6.801	12328	10801	0.876	0.02	
7.007	25063	17232	0.688	0.05	
7.124	14315	12489	0.872	0.03	
7.254	9521	8951	0.940	0.02	
7.388	9638	8507	0.883	0.02	
7.690	12076	10303	0.853	0.02	
7.729	48215	39871	0.827	0.10	
7.799	29794	26579	0.892	0.06	
8.275	83328	73864	0.886	0.17	
8.375	22198	13404	0.604	0.04	
8.570	10175612	8512680	0.837	21.86	$ 12 Decachlorobiphenyl
	46545428	39670946		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018025.D
Lab Smp Id: 1659956 Client Smp ID: MBLCS
Inj Date : 20-MAR-2018 18:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659956,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10244659	0.08309	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1251278	0.49395	250	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1228029	0.48731	240	0.00- 20.00	98.14	BA
3.826	3.827	-0.001	3527401	0.49567	250	0.00- 20.00	281.90	BA
3.929	3.929	0.000	1517023	0.49877	250	0.00- 20.00	121.24	BA
3.994	3.995	-0.001	1001488	0.48907	240	0.00- 20.00	80.04	BA
Average of Peak Concentrations =					250			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10175611	0.09288	46	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018025.D

Date : 20-MAR-2018 18:52

Client ID: MBLCS

Instrument: 40GCSJ.i

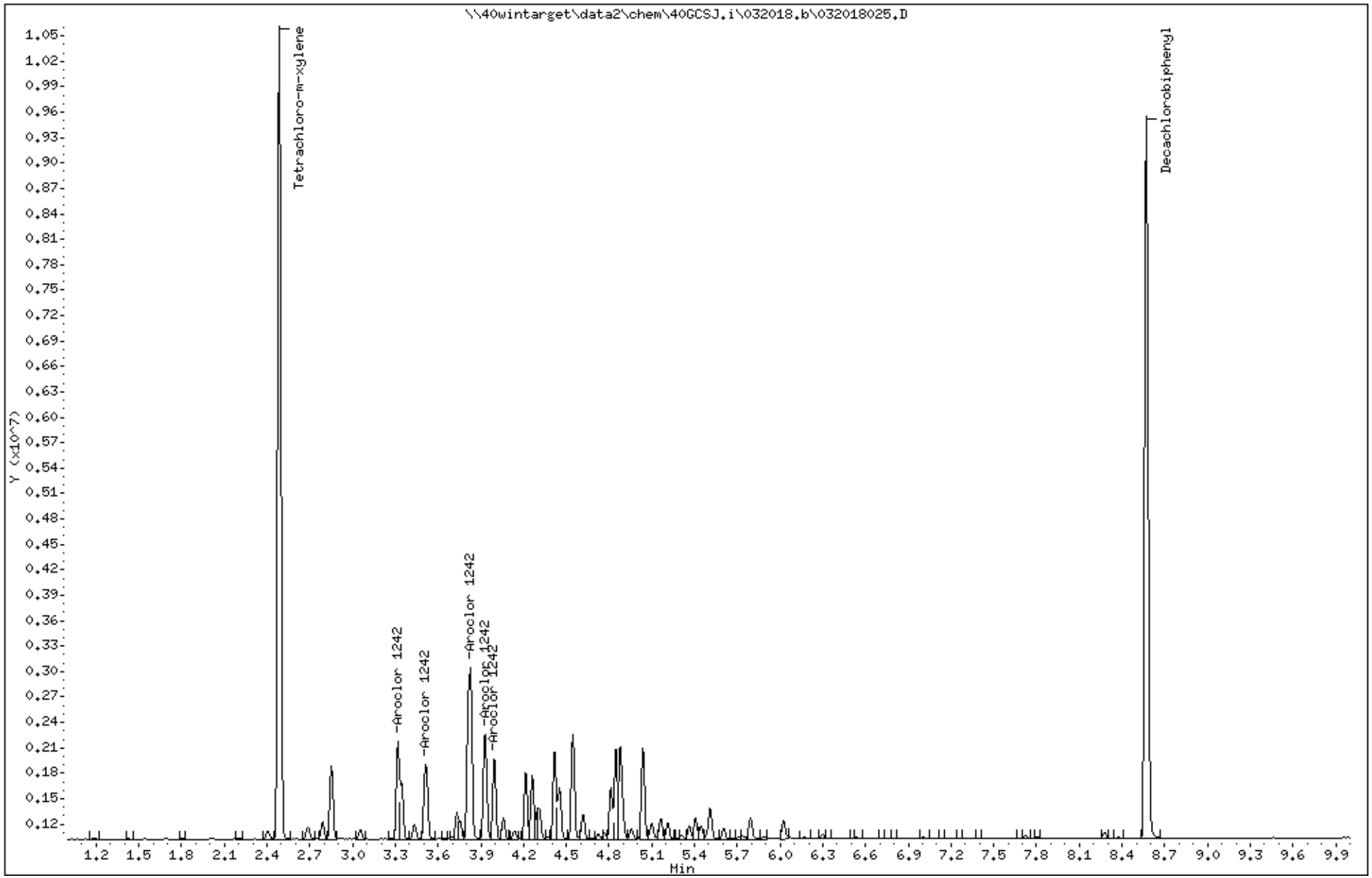
Sample Info: 1659956,

Volume Injected (uL): 1.0

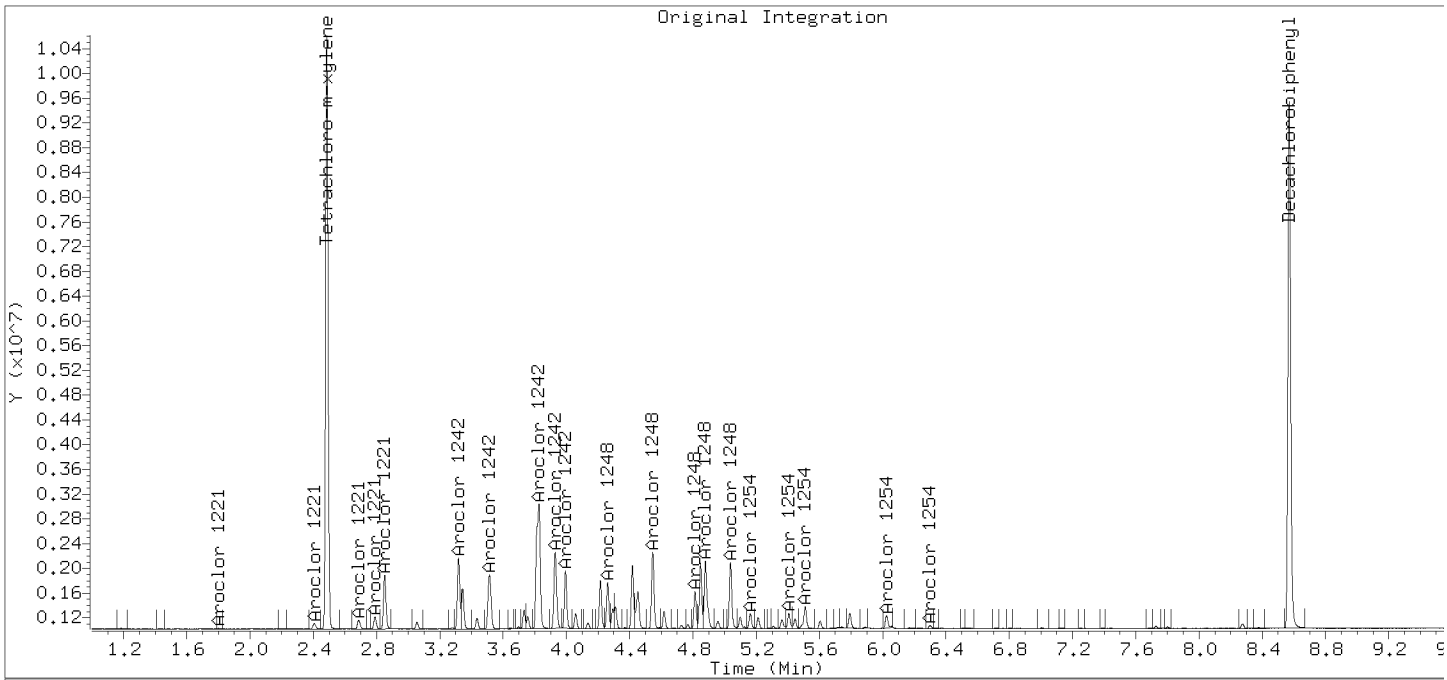
Operator: BLM

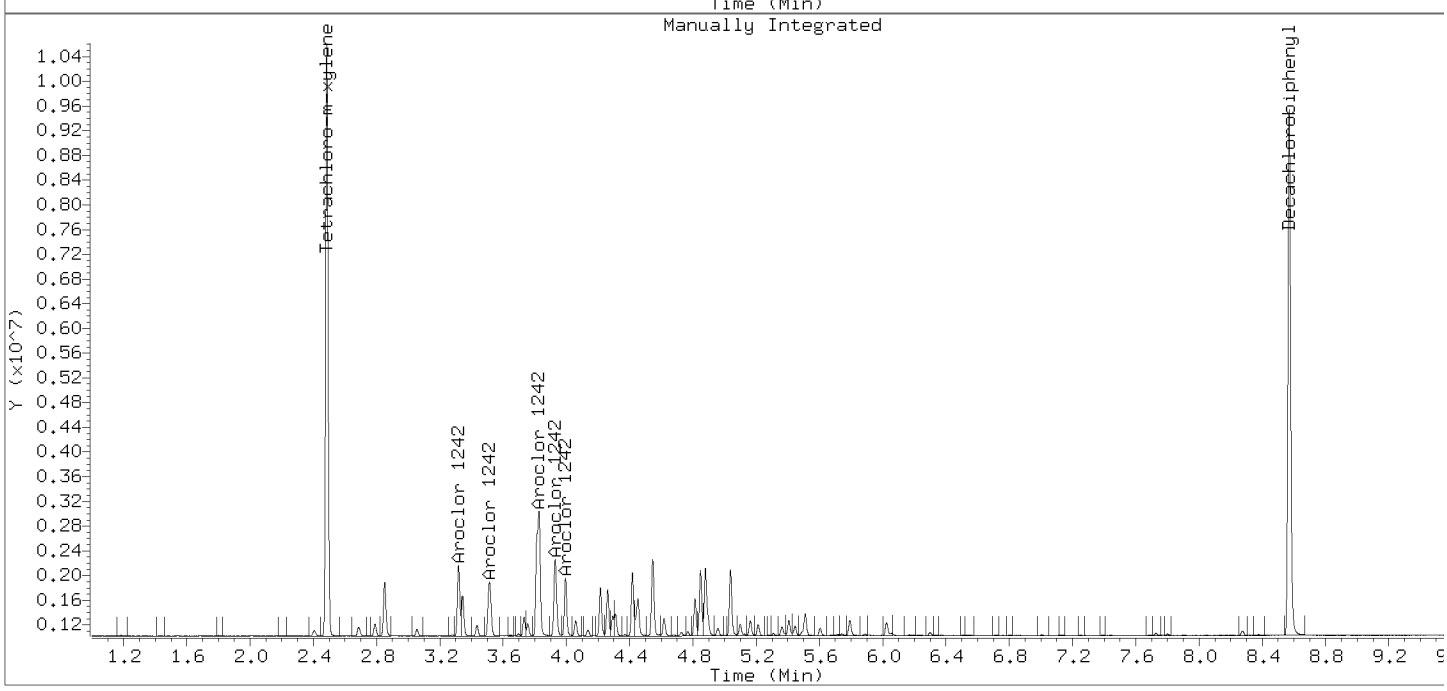
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 18:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659956





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1016	1247491	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1221	15818	0	
Aroclor 1232	966260	0	
Aroclor 1232	966260	0	
Aroclor 1232	966260	0	
Aroclor 1232	966260	0	

Aroclor 1232	966260	0	
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1242	1247491	1251278	BA
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1248	774324	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1254	263173	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10244659	10244659	
Decachlorobiphenyl	10175611	10175611	

==========

SAMPLE NO.

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: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 1659957

Date Analyzed: 03/20/2018 19:08

Lab File ID: 032018.B\032018026.D

Initial wt/vol: 9.9949 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)	254	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	39.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	17.0	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018026.D
Lab Smp Id: 1659957 Client Smp ID: FD1-170613-01-BB-02
Inj Date : 20-MAR-2018 19:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659957,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26 QC Sample: MS
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	9.995	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	11575	8074	0.698	0.02		
1.157	9425	11378	1.207	0.01		
1.431	9532	9655	1.013	0.01		
1.542	12333	9717	0.788	0.02		
1.803	14209	12195	0.858	0.02		
2.006	9907	8827	0.891	0.01		
2.198	10802	6944	0.643	0.01		
2.293	12550	12585	1.003	0.02		
2.405	152812	118822	0.778	0.28		
2.485	10937197	10430919	0.954	20.71	$ 2 Tetrachloro-m-xylene	
2.687	185095	150299	0.812	0.33		
2.789	228647	210957	0.923	0.41		
2.850	1012387	928268	0.917	1.85		
2.920	14176	12911	0.911	0.02		
2.974	41566	24265	0.584	0.07		
3.018	23451	21727	0.927	0.04		
3.054	130846	120145	0.918	0.23		
3.274	23746	18558	0.782	0.04		
3.317	1275450	1188912	0.932	2.33	3 Aroclor 1242	BA
3.344	721578	668671	0.927	1.32		
3.402	12976	10739	0.828	0.02		
3.435	203003	184023	0.907	0.37		
3.512	1261667	915912	0.726	2.31	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.648	24638	15869	0.644	0.04	
3.695	38203	36843	0.964	0.07	
3.732	327193	319464	0.976	0.59	
3.755	212904	201075	0.944	0.39	
3.826	3643539	2117596	0.581	6.67	3 Aroclor 1242
3.928	1551822	1295687	0.835	2.84	3 Aroclor 1242
3.993	1046106	991441	0.948	1.91	3 Aroclor 1242
4.058	301490	259520	0.861	0.55	
4.135	121605	104586	0.860	0.22	
4.215	889359	811017	0.912	1.63	
4.260	823943	789052	0.958	1.51	
4.292	359437	359992	1.002	0.65	
4.309	430487	377980	0.878	0.78	
4.370	38539	28991	0.752	0.07	
4.417	1161681	1057033	0.910	2.12	
4.451	905842	641493	0.708	1.66	
4.545	1487597	1325741	0.891	2.72	
4.588	46578	41290	0.886	0.08	
4.617	382316	309745	0.810	0.70	
4.680	51107	32619	0.638	0.09	
4.726	100834	69911	0.693	0.18	
4.766	151706	100969	0.666	0.27	
4.812	722395	657685	0.910	1.32	
4.848	1176679	1107197	0.941	2.15	
4.878	1593559	1176094	0.738	2.92	
4.959	195252	138584	0.710	0.35	
5.004	22723	22795	1.003	0.04	
5.037	1310800	1161982	0.886	2.40	
5.098	345345	244449	0.708	0.63	
5.162	362533	298610	0.824	0.66	7 Aroclor 1254
5.211	294137	243600	0.828	0.53	
5.252	32332	23354	0.722	0.05	
5.281	45073	36899	0.819	0.08	
5.311	135843	94661	0.697	0.24	
5.363	238336	186679	0.783	0.43	
5.407	370222	306481	0.828	0.67	7 Aroclor 1254
5.450	731136	658381	0.900	1.34	
5.509	670521	500088	0.746	1.22	7 Aroclor 1254
5.566	17780	20046	1.127	0.03	
5.603	190826	151120	0.792	0.34	
5.675	136714	119864	0.877	0.25	
5.714	65375	46989	0.719	0.11	
5.741	85115	61725	0.725	0.15	
5.790	575431	472058	0.820	1.05	
5.821	97058	70426	0.726	0.17	
5.886	86778	46853	0.540	0.15	
5.994	103321	96920	0.938	0.18	
6.024	368160	312134	0.848	0.67	7 Aroclor 1254
6.054	212536	178515	0.840	0.38	
6.121	36516	22622	0.620	0.06	
6.168	129570	77381	0.597	0.23	
6.242	86912	43021	0.495	0.15	
6.299	469317	375366	0.800	0.86	8 Aroclor 1260
6.333	58477	50671	0.867	0.10	
6.370	48717	26463	0.543	0.08	
6.432	87041	45397	0.522	0.15	
6.510	386003	343145	0.889	0.70	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.533	99073	93656	0.945	0.18	
6.561	78991	56088	0.710	0.14	
6.607	19373	15968	0.824	0.03	
6.661	40376	30690	0.760	0.07	
6.717	129687	100338	0.774	0.23	
6.759	118573	91678	0.773	0.21	
6.801	103862	77001	0.741	0.19	
6.838	70073	33985	0.485	0.12	
6.941	98242	66340	0.675	0.18	
7.004	225692	192504	0.853	0.41	8 Aroclor 1260
7.034	56410	41662	0.739	0.10	
7.091	85532	37707	0.441	0.15	
7.250	132861	109913	0.827	0.24	8 Aroclor 1260
7.281	65595	46278	0.706	0.12	
7.333	21077	16911	0.802	0.03	
7.390	116976	93792	0.802	0.21	
7.441	100883	79864	0.792	0.18	8 Aroclor 1260
7.485	38748	22578	0.583	0.07	
7.525	29469	20259	0.687	0.05	
7.580	11062	12862	1.163	0.02	
7.691	37911	35828	0.945	0.06	
7.726	74501	46886	0.629	0.13	
7.765	36550	26533	0.726	0.06	
7.802	34530	22797	0.660	0.06	
7.835	18539	16771	0.905	0.03	
7.899	84796	70579	0.832	0.15	8 Aroclor 1260
7.954	66909	43168	0.645	0.12	
8.051	24093	21578	0.896	0.04	
8.135	9862	7695	0.780	0.01	
8.178	11332	8780	0.775	0.02	
8.275	98157	87979	0.896	0.17	
8.318	15380	15388	1.000	0.02	
8.377	92562	69133	0.747	0.16	
8.447	47590	40869	0.859	0.08	
8.480	18292	19080	1.043	0.03	
8.571	9441342	8043674	0.852	17.30	$ 12 Decachlorobiphenyl
8.641	42981	29006	0.675	0.07	
8.720	19345	15697	0.811	0.03	
8.939	25113	16428	0.654	0.04	
9.167	750588	655528	0.873	1.37	
9.464	26086	16191	0.621	0.04	
9.962	29747	18863	0.634	0.05	
	54549146	46359197		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018026.D
Lab Smp Id: 1659957 Client Smp ID: FD1-170613-01-BB-02
Inj Date : 20-MAR-2018 19:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659957,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26 QC Sample: MS
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	9.995	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	10937196	0.08871	44			
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	1275449	0.50349	250	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1261666	0.50065	250	0.00- 20.00	98.92	BA
3.825	3.827	-0.002	3643539	0.51199	260	0.00- 20.00	285.67	BA
3.927	3.929	-0.002	1551822	0.51021	260	0.00- 20.00	121.67	BA
3.993	3.995	-0.002	1046106	0.51086	260	0.00- 20.00	82.02	BA
Average of Peak Concentrations =					250			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
Operator disabled compound identification.								
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	362532	0.06925	35	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	370221	0.08608	43	0.00- 20.00	102.12	BA
5.509	5.510	-0.001	670520	0.08634	43	0.00- 20.00	184.95	BA
6.023	6.027	-0.004	368160	0.07560	38	0.00- 20.00	101.55	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					40			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	469317	0.05296	26	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	225691	0.02254	11	0.00- 20.00	48.09	BA
7.250	7.251	-0.001	132860	0.02780	14	0.00- 20.00	28.31	BA
7.441	7.443	-0.002	100883	0.03461	17	0.00- 20.00	21.50	BA
7.898	7.901	-0.003	84796	0.03214	16	0.00- 20.00	18.07	BA
Average of Peak Concentrations =					17			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9441342	0.08618	43			

QC Flag Legend

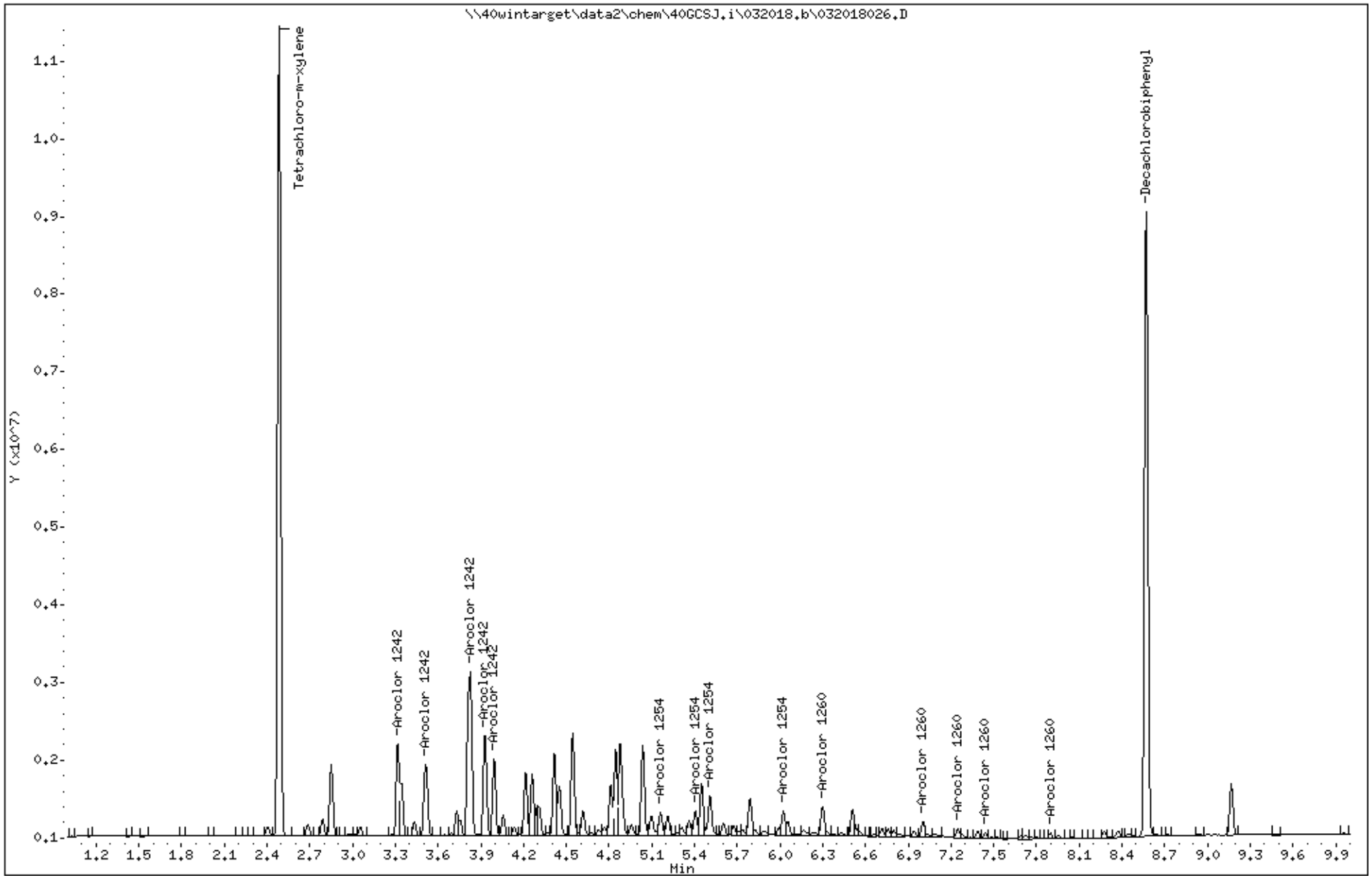
M - Compound response manually integrated.

Review Codes Legend

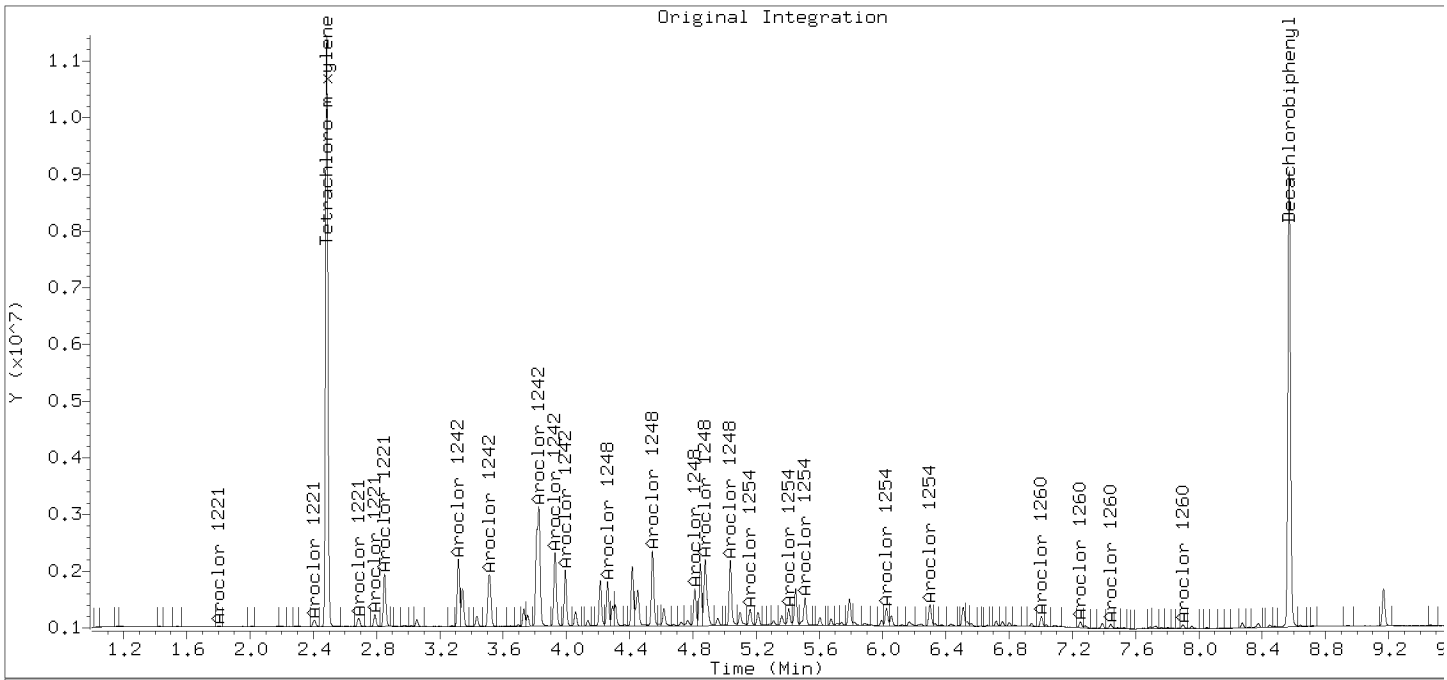
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

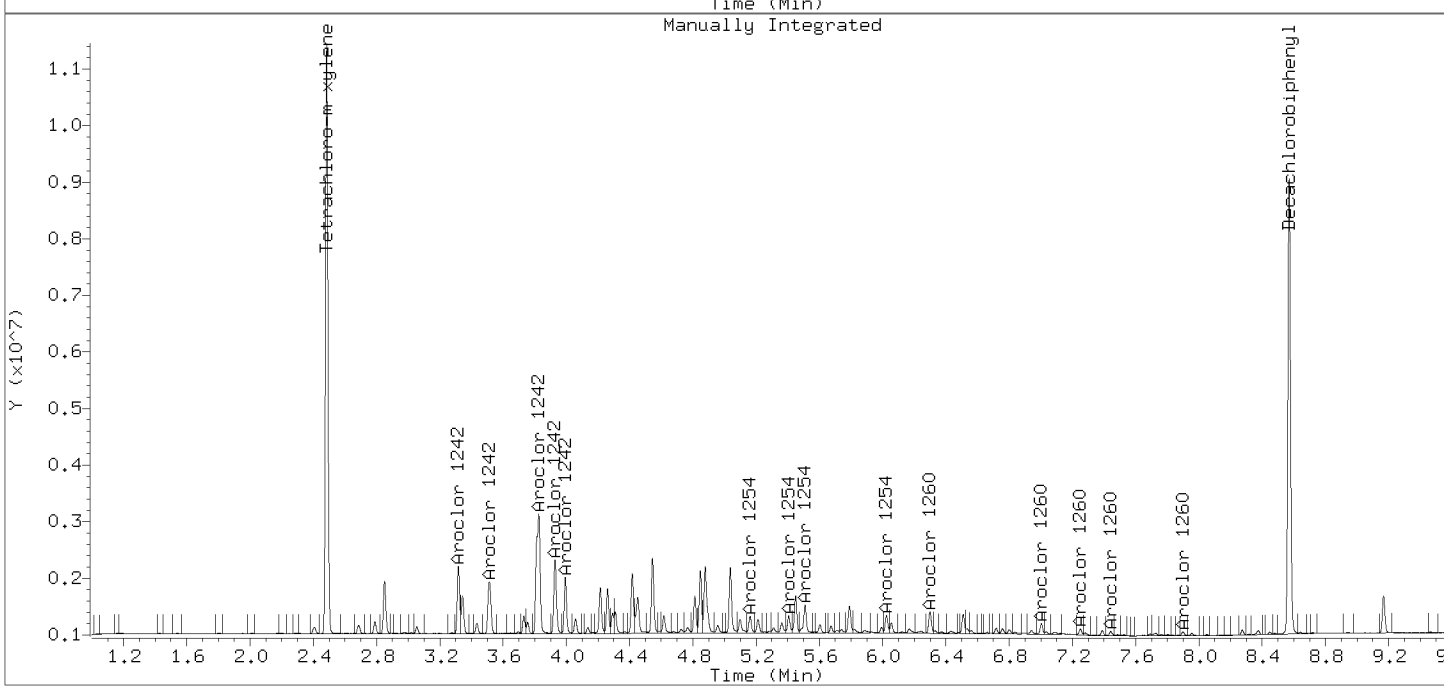
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018026.D
Date : 20-MAR-2018 19:08
Client ID: FD1-170613-01-BB-02
Sample Info: 1659957,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 19:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659957





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1270476	0	
Aroclor 1016	1270476	0	
Aroclor 1016	1270476	0	
Aroclor 1016	1270476	0	
Aroclor 1016	1270476	0	
Aroclor 1221	14208	0	
Aroclor 1221	14208	0	
Aroclor 1221	14208	0	
Aroclor 1221	14208	0	
Aroclor 1221	14208	0	
Aroclor 1232	998816	0	
Aroclor 1232	998816	0	
Aroclor 1232	998816	0	
Aroclor 1232	998816	0	

Aroclor 1232	998816	0	
Aroclor 1242	1270476	1275449	BA
Aroclor 1242	1270476	1275449	BA
Aroclor 1242	1270476	1275449	BA
Aroclor 1242	1270476	1275449	BA
Aroclor 1242	1270476	1275449	BA
Aroclor 1248	801043	0	
Aroclor 1248	801043	0	
Aroclor 1248	801043	0	
Aroclor 1248	801043	0	
Aroclor 1248	801043	0	
Aroclor 1254	336928	362532	BA
Aroclor 1254	336928	362532	BA
Aroclor 1254	336928	362532	BA
Aroclor 1254	336928	362532	BA
Aroclor 1254	336928	362532	BA
Aroclor 1260	456010	469317	BA
Aroclor 1260	456010	469317	BA
Aroclor 1260	456010	469317	BA
Aroclor 1260	456010	469317	BA
Aroclor 1260	456010	469317	BA
Tetrachloro-m-xylene	10937196	10937196	
Decachlorobiphenyl	9441342	9441342	

==========

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: 06/15/2017 09:55

Matrix: Tissue SDG No.: 40151705

Date Extracted: 03/16/2018 07:30

Lab Sample ID: 1659958

Date Analyzed: 03/21/2018 01:27

Lab File ID: 032018.B\032018050.D

Initial wt/vol: 10.0385 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)	15.0	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018050.D
Lab Smp Id: 1659958 Client Smp ID: FD1-170613-01-BB-02
Inj Date : 21-MAR-2018 01:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659958,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 50 QC Sample: FIELDDUP
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	10.039	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.162	13078	13026	0.996	0.04		
1.181	15817	13629	0.862	0.05		
2.008	10306	8944	0.868	0.03		
2.292	12191	13040	1.070	0.04		
2.407	38068	32950	0.866	0.14		
2.484	10281272	10134975	0.986	39.35	$ 2 Tetrachloro-m-xylene	
2.788	18292	15624	0.854	0.06		
2.860	35860	24416	0.681	0.13		
2.971	13724	14990	1.092	0.05		
3.020	24326	20340	0.836	0.09		
3.401	25946	22584	0.870	0.09		
3.695	21245	22409	1.055	0.08		
3.826	49426	39867	0.807	0.18		
3.930	11921	7167	0.601	0.04		
4.047	22131	16716	0.755	0.08		
4.213	26841	24294	0.905	0.10		
4.240	26412	25380	0.961	0.09		
4.259	27248	26444	0.970	0.10	6 Aroclor 1248	CO
4.291	40969	27332	0.667	0.15		
4.417	28757	24132	0.839	0.10		
4.547	49334	37054	0.751	0.18	6 Aroclor 1248	CO
4.607	18642	13906	0.746	0.07		
4.653	18922	12762	0.674	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.765	25282	17929	0.709	0.09	
4.813	60291	49740	0.825	0.22	6 Aroclor 1248
4.846	26937	24674	0.916	0.10	
4.879	144771	91000	0.629	0.54	6 Aroclor 1248
4.955	20576	11448	0.556	0.07	
5.035	53410	48530	0.909	0.20	6 Aroclor 1248
5.057	19136	18678	0.976	0.07	
5.100	77375	57152	0.739	0.29	
5.161	72705	61651	0.848	0.27	7 Aroclor 1254
5.213	80890	68911	0.852	0.30	
5.283	14558	15319	1.052	0.05	
5.311	50104	45140	0.901	0.18	
5.345	17585	22952	1.305	0.06	
5.360	39732	28757	0.724	0.14	
5.407	60600	52281	0.863	0.22	7 Aroclor 1254
5.451	566663	542274	0.957	2.13	
5.510	146873	129399	0.881	0.55	7 Aroclor 1254
5.572	11874	11176	0.941	0.04	
5.602	24820	17634	0.710	0.09	
5.674	114894	107143	0.933	0.43	
5.709	43392	29401	0.678	0.16	
5.740	35704	31826	0.891	0.13	
5.789	294480	238931	0.811	1.11	
5.822	65013	51754	0.796	0.24	
5.899	19013	19271	1.014	0.07	
5.931	18811	13503	0.718	0.07	
5.992	97225	89907	0.925	0.36	
6.025	115303	99435	0.862	0.43	7 Aroclor 1254
6.055	169170	149602	0.884	0.63	
6.117	16133	10035	0.622	0.06	
6.168	97589	59858	0.613	0.36	
6.241	57149	33301	0.583	0.21	
6.299	396282	341067	0.861	1.49	8 Aroclor 1260
6.333	37316	36225	0.971	0.14	
6.372	19049	15613	0.820	0.07	
6.431	51305	34938	0.681	0.19	
6.509	357168	322159	0.902	1.34	
6.534	112563	70355	0.625	0.42	
6.613	12981	11548	0.890	0.04	
6.659	23775	20210	0.850	0.08	
6.717	101952	86991	0.853	0.38	
6.759	96174	80374	0.836	0.36	
6.800	72354	62743	0.867	0.27	
6.840	43699	24286	0.556	0.16	
6.943	72055	61438	0.853	0.27	
7.003	196937	177238	0.900	0.74	8 Aroclor 1260
7.033	40061	35294	0.881	0.15	
7.092	24086	19560	0.812	0.09	
7.124	41513	19546	0.471	0.15	
7.249	131167	109315	0.833	0.49	8 Aroclor 1260
7.281	63359	42285	0.667	0.23	
7.336	17252	14148	0.820	0.06	
7.388	101760	86295	0.848	0.38	
7.442	85143	75387	0.885	0.32	8 Aroclor 1260
7.484	28624	18504	0.646	0.10	
7.526	27151	18746	0.690	0.10	
7.584	10096	10168	1.007	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.624	5201	6796	1.307	0.01	
7.641	14428	8270	0.573	0.05	
7.691	32488	30161	0.928	0.12	
7.726	62951	41253	0.655	0.23	
7.759	31510	22209	0.705	0.11	
7.800	39554	17292	0.437	0.14	
7.864	10581	10579	1.000	0.03	
7.898	78713	67937	0.863	0.29	8 Aroclor 1260
7.954	60773	41927	0.690	0.22	
8.046	29728	24740	0.832	0.11	
8.273	97010	87803	0.905	0.36	
8.316	18506	17319	0.936	0.06	
8.374	102336	71000	0.694	0.38	
8.447	56687	43130	0.761	0.21	
8.478	27057	19196	0.709	0.10	
8.570	9331938	8218826	0.881	35.22	$ 12 Decachlorobiphenyl
8.640	38460	25616	0.666	0.14	
8.715	20903	13943	0.667	0.07	
8.932	11637	10536	0.905	0.04	
9.168	749403	662236	0.884	2.82	
9.960	16325	12186	0.746	0.06	
	26488798	24087981		100.000	

Total unknown % area = 19

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018050.D
Lab Smp Id: 1659958 Client Smp ID: FD1-170613-01-BB-02
Inj Date : 21-MAR-2018 01:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659958,
Misc Info : 17547,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 03-Apr-2018 07:42 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 50 QC Sample: FIELDDUP
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	10.039	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	10281271	0.08339	42			

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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			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								CO
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	396282	0.04472	22	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	196937	0.01967	9.8	0.00- 20.00	49.70	CO
7.249	7.251	-0.002	131166	0.02744	14	0.00- 20.00	33.10	CO
7.441	7.443	-0.002	85143	0.02921	14	0.00- 20.00	21.49	CO
7.898	7.901	-0.003	78712	0.02983	15	0.00- 20.00	19.86	CO
Average of Peak Concentrations =					15			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9331938	0.08518	42			

QC Flag Legend

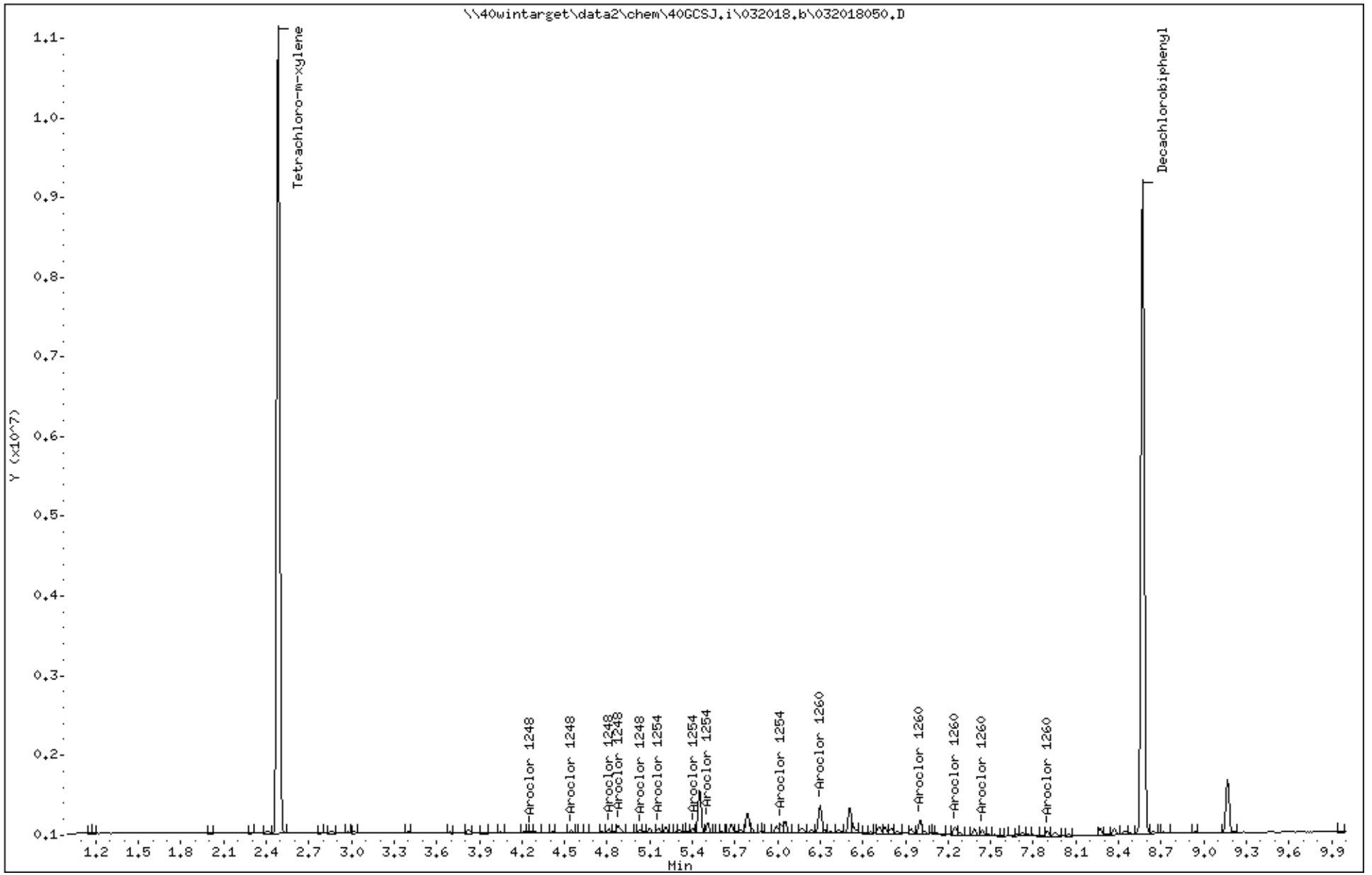
M - Compound response manually integrated.

Review Codes Legend

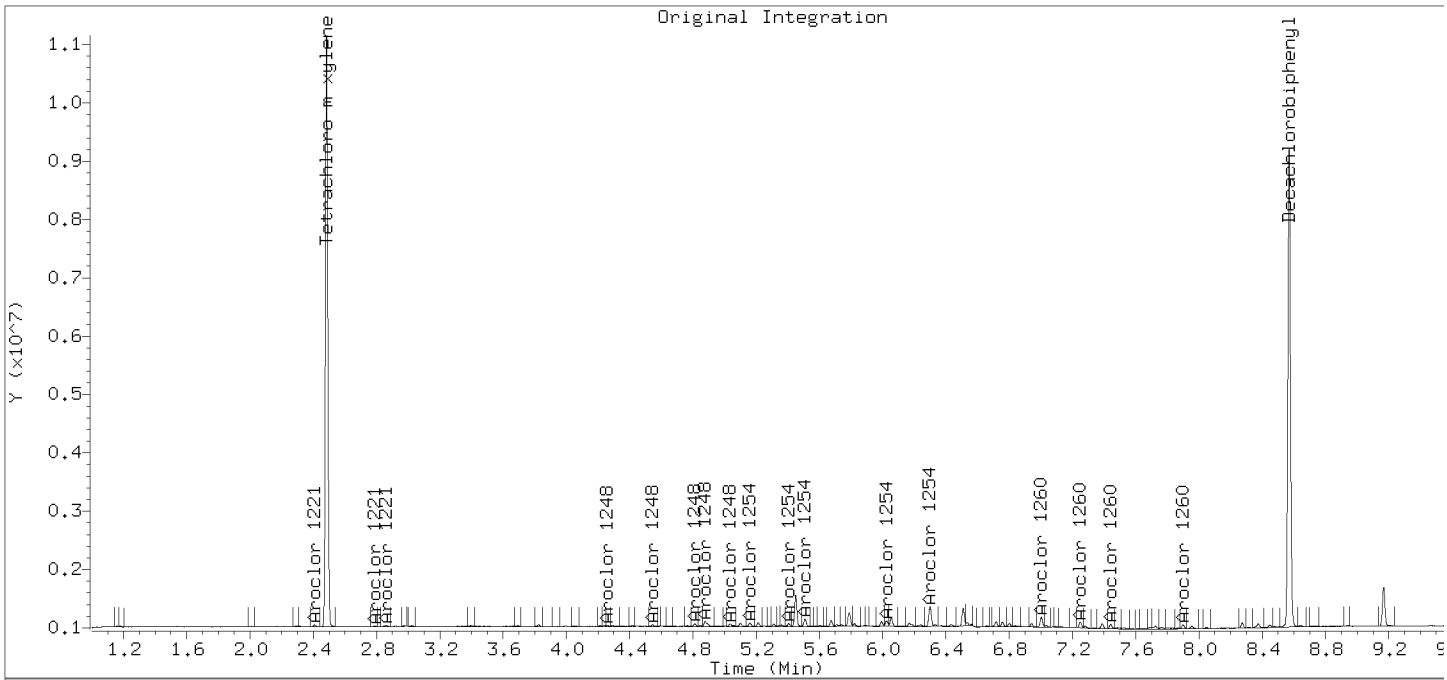
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

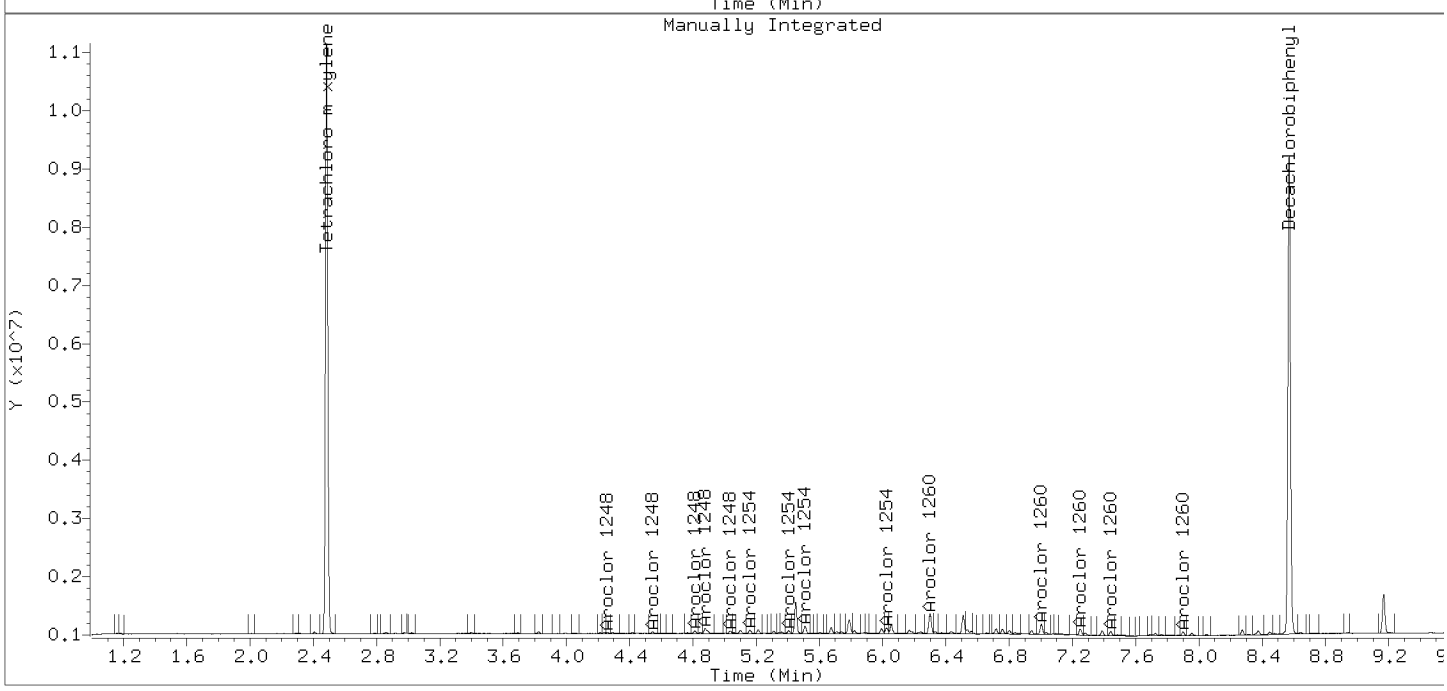
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018050.D
Date : 21-MAR-2018 01:27
Client ID: FD1-170613-01-BB-02
Sample Info: 1659958,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018050.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 21-MAR-2018 01:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659958





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	23118	0	CO
Aroclor 1248	23118	0	CO
Aroclor 1248	23118	0	CO
Aroclor 1248	23118	0	CO
Aroclor 1248	23118	0	CO
Aroclor 1254	67044	0	CO
Aroclor 1254	67044	0	CO
Aroclor 1254	67044	0	CO
Aroclor 1254	67044	0	CO
Aroclor 1254	67044	0	CO
Aroclor 1260	419943	396282	CO
Aroclor 1260	419943	396282	CO
Aroclor 1260	419943	396282	CO
Aroclor 1260	419943	396282	CO
Aroclor 1260	419943	396282	CO
Tetrachloro-m-xylene	10281271	10281271	
Decachlorobiphenyl	9331938	9331938	

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Prep Log Report

Batch Information: OEXT 283459 PCB-B

Template Version: F-GB-O-113-Rev.04 (14Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/16/2018 07:30:28:431
Spiked By	AMC	Spiked By Date/Time	03/16/2018 07:30:29:480	Witnessed By	ETB	Witnessed By Date/Time	03/16/2018 07:30:29:480
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191350	Hexane	188917	Sodium Sulfate	188340	Florisil	186910
3620B Date/Initials	03/20/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/20/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/03/2018 07:36	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1659955**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1659956**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151614007**	9.9789	5	3		189973 (.25)	
8082A TNYP	PS	**40151614008**	9.9668	5	3		189973 (.25)	
8082A TNYP	PS	**40151705001**	10.0179	5	3		189973 (.25)	
8082A TNYP	PS	**40151705002**	9.9736	5	3		189973 (.25)	
8082A TNYP	PS	**40151705003**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40151705004**	10.0227	5	3		189973 (.25)	
8082A TNYP	PS	**40151705005**	10.0013	5	3		189973 (.25)	
8082A TNYP	PS	**40151705006**	9.9835	5	3		189973 (.25)	
8082A TNYP	PS	**40151705007**	10.0108	5	3		189973 (.25)	
8082A TNYP	PS	**40151705008**	9.9731	5	3		189973 (.25)	
8082A TNYP	PS	**40151705009**	10.0354	5	3		189973 (.25)	
8082A TNYP	PS	**40151705010**	10.022	5	3		189973 (.25)	
8082A TNYP	PS	**40151705011**	10.0245	5	3		189973 (.25)	
8082A TNYP	PS	**40151705012**	9.973	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151705013**	10.0077	5	3		189973 (.25)	
8082A TNYP	PS	**40151705014**	10.0189	5	3		189973 (.25)	
8082A TNYP	PS	**40151705015**	10.0181	5	3		189973 (.25)	
8082A TNYP	PS	**40151705016**	10.0368	5	3		189973 (.25)	
8082A TNYP	RQS	**40151705017**	10.0037	5	3		189973 (.25)	
8082A TNYP	MS	**1659957**	9.9949	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1659958**	10.0385	5	3		189973 (.25)	
8082A TNYP	PS	**40151705018**	9.9851	5	3		189973 (.25)	

Standard Notes:

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

```
      Sequence Name: C:\msdchem\1\sequence\032018.s
            Comment:
           Operator:
          Data Path: C:\MSDCHEM\1\DATA\032018\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    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  1660731MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1660732LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1660733LCSD
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40165960-001
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40165960-002
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40165960-003
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40165918-001
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  HEXANE
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  1659955MB
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  1659956LCS
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  1659957MS —
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40151614-007 —
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40151614-008 —
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40151705-001 —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40151705-002 —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40151705-003 —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40151705-004 —
     Datafile           --------

   Last Modified: Tue Mar 20 10:35:21 2018                Page:  1
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GE BIOTA

BLM 3/26/18

Continued on Page 18

Read and Understood By

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

```
      Method                SCREEN2014
20) Sample          20  40151705-005
      Datafile            --------
      Method                SCREEN2014
21) RearSamp        21  40151705-006
      Datafile            --------
      Method                SCREEN2014
22) Sample          22  40151705-007
      Datafile            --------
      Method                SCREEN2014
23) RearSamp        23  40151705-008
      Datafile            --------
      Method                SCREEN2014
24) Sample          24  40151705-009
      Datafile            --------
      Method                SCREEN2014
25) RearSamp        25  40151705-010
      Datafile            --------
      Method                SCREEN2014
26) Sample          26  40151705-011
      Datafile            --------
      Method                SCREEN2014
27) RearSamp        27  40151705-012
      Datafile            --------
      Method                SCREEN2014
28) Sample          28  40151705-013
      Datafile            --------
      Method                SCREEN2014
29) RearSamp        29  40151705-014
      Datafile            --------
      Method                SCREEN2014
30) Sample          30  40151705-015
      Datafile            --------
      Method                SCREEN2014
31) RearSamp        31  40151705-016
      Datafile            --------
      Method                SCREEN2014
32) Sample          32  40151705-017
      Datafile            --------
      Method                SCREEN2014
33) RearSamp        33  1659958DUP
      Datafile            --------
      Method                SCREEN2014
34) Sample          34  40151705-018
      Datafile            --------
      Method                SCREEN2014
```

Last Modified: Tue Mar 20 10:35:21 2018 Page: 2

BLM 3/26/18

Continued on Page

Read and Understood By

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

PROJECT 40GCSJ/K 03/06/18

Notebook No. 4417

Continued from Page —

```
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

Last Modified: Tue Mar 06 10:58:59 2018                    Page:  1
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BLM 3/7/18

Continued on Page 5

Read and Understood By

Signed 3/7/18 Date Signed 3/7/18 Date

```
      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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  2
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BLM 3/7/18

Continued on Page 6

Read and Understood By

Signed 3/7/18 Date Signed 3/5/18 Date

Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

Last Modified: Tue Mar 06 10:58:59 2018

Page: 3

BLM 3/7/18

Continued on Page 7

Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
      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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  4
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BLM 3/7/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 3/7/18

Signed: [signature] Date: 3/7/18

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    Sequence Name: C:\msdchem\1\sequence\032018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\032018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          032018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018005
     Method            GEBIOTA2017
 6) Sample          6  40150294010 x2,,17511,BIOTA
     Datafile          032018006
     Method            GEBIOTA2017
 7) Sample          7  40151597002 x2,,17521,BIOTA
     Datafile          032018007
     Method            GEBIOTA2017
 8) Sample          8  40151608011 x2,,17521,BIOTA
     Datafile          032018008
     Method            GEBIOTA2017
 9) Sample          9  40151800010 x4,,17521,BIOTA
     Datafile          032018009
     Method            GEBIOTA2017
10) Sample         10  40151804005 x2,,17521,BIOTA
     Datafile          032018010
     Method            GEBIOTA2017
11) Sample         11  40151549003 x2,,17523,BIOTA
     Datafile          032018011
     Method            GEBIOTA2017
12) Sample         12  40151549004 x2,,17523,BIOTA
     Datafile          032018012
     Method            GEBIOTA2017
13) Sample         13  40150340003 x4,,17527,BIOTA
     Datafile          032018013
     Method            GEBIOTA2017
14) Sample         14  40150340004 x20,,17527,BIOTA
     Datafile          032018014
     Method            GEBIOTA2017
15) Sample         15  40150340013 x2,,17527,BIOTA
     Datafile          032018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018017
     Method            GEBIOTA2017
18) Sample         18  40150340014 x10,,17527,BIOTA
     Datafile          032018018
     Method            GEBIOTA2017
19) Sample         19  40150340015 x2,,17527,BIOTA
     Datafile          032018019

   Last Modified: Tue Mar 20 12:25:04 2018                Page:  1
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BLM 3/26/18

Continued on Page 24

Read and Understood By

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

```
      Method                GEBIOTA2017
20) Sample          20  40150340020 x4,,17527,BIOTA
      Datafile              032018020
      Method                GEBIOTA2017
21) Sample          21  40151608004 x3,,17532,BIOTA
      Datafile              032018021
      Method                GEBIOTA2017
22) Sample          22  40151608007 x2,,17532,BIOTA
      Datafile              032018022
      Method                GEBIOTA2017
23) Sample          23  40151608008 x10,,17532,BIOTA
      Datafile              032018023
      Method                GEBIOTA2017
24) Sample          24  1659955,,17547,BIOTA
      Datafile              032018024
      Method                GEBIOTA2017
25) Sample          25  1659956,,17547,BIOTA
      Datafile              032018025
      Method                GEBIOTA2017
26) Sample          26  1659957,,17547,BIOTA
      Datafile              032018026
      Method                GEBIOTA2017
27) Sample          27  40151614007,,17547;BIOTA
      Datafile              032018027
      Method                GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018028
      Method                GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018029
      Method                GEBIOTA2017
30) Sample          30  40151614008,,17547,BIOTA
      Datafile              032018030
      Method                GEBIOTA2017
31) Sample          31  40151705001,,17547,BIOTA
      Datafile              032018031
      Method                GEBIOTA2017
32) Sample          32  40151705002,,17547,BIOTA
      Datafile              032018032
      Method                GEBIOTA2017
33) Sample          33  40151705003,,17547,BIOTA
      Datafile              032018033
      Method                GEBIOTA2017
34) Sample          34  40151705004,,17547,BIOTA
      Datafile              032018034
      Method                GEBIOTA2017
35) Sample          35  40151705005,,17547,BIOTA
      Datafile              032018035
      Method                GEBIOTA2017
36) Sample          36  40151705006,,17547,BIOTA
      Datafile              032018036
      Method                GEBIOTA2017
37) Sample          37  40151705007,,17547,BIOTA
      Datafile              032018037
      Method                GEBIOTA2017
38) Sample          38  40151705008,,17547,BIOTA
      Datafile              032018038
      Method                GEBIOTA2017
39) Sample          39  40151705009,,17547,BIOTA
      Datafile              032018039
      Method                GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018040
      Method                GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018041
      Method                GEBIOTA2017
42) Sample          42  40151705010,,17547,BIOTA
      Datafile              032018042
      Method                GEBIOTA2017
43) Sample          43  40151705011,,17547,BIOTA
      Datafile              032018043

   Last Modified: Tue Mar 20 12:25:04 2018                Page:  2
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BLM 3/26/18

Continued on Page 25

Read and Understood By

Signed 3/26/18 Date

Signed 3/26/18 Date

Sequence Name: C:\msdchem\1\sequence\032018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40151705012,,17547,BIOTA		
	Datafile		032018044		
	Method			GEBIOTA2017	
45)	Sample	45	40151705013,,17547,BIOTA		
	Datafile		032018045		
	Method			GEBIOTA2017	
46)	Sample	46	40151705014,,17547,BIOTA		
	Datafile		032018046		
	Method			GEBIOTA2017	
47)	Sample	47	40151705015,,17547,BIOTA		
	Datafile		032018047		
	Method			GEBIOTA2017	
48)	Sample	48	40151705016,,17547,BIOTA		
	Datafile		032018048		
	Method			GEBIOTA2017	
49)	Sample	49	40151705017,,17547,BIOTA		
	Datafile		032018049		
	Method			GEBIOTA2017	
50)	Sample	50	1659958,,17547,BIOTA		
	Datafile		032018050		
	Method			GEBIOTA2017	
51)	Sample	51	40151705018,,17547,BIOTA		
	Datafile		032018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166		ok
	Datafile		032018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166		ok
	Datafile		032018053		
	Method			GEBIOTA2017	

GCSV Batch #17547 HBN: 2837446 Screened on 40GCSI 03/20/18.

Last Modified: Tue Mar 20 12:25:04 2018 Page: 4

BLK 3/26/18

Continued on Page —

Read and Understood By

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

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

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 #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			

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

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

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

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 #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

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 #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		

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

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

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. : 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)

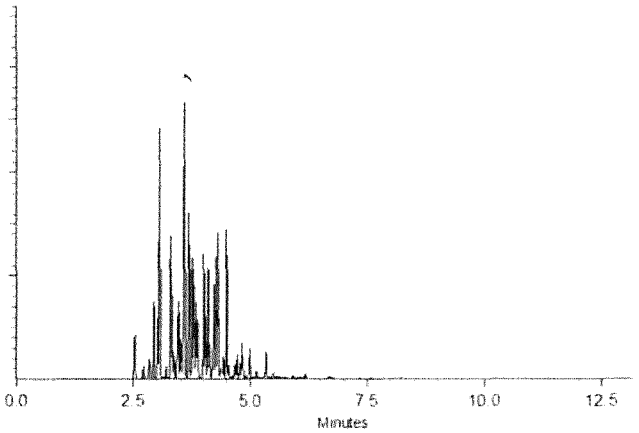
Carrier Gas:
helium-constant pressure 20 psi.

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)

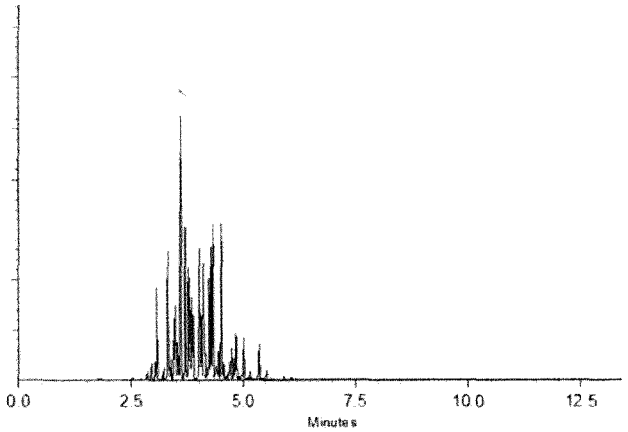
Carrier Gas:
helium-constant pressure 20 psi.

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)

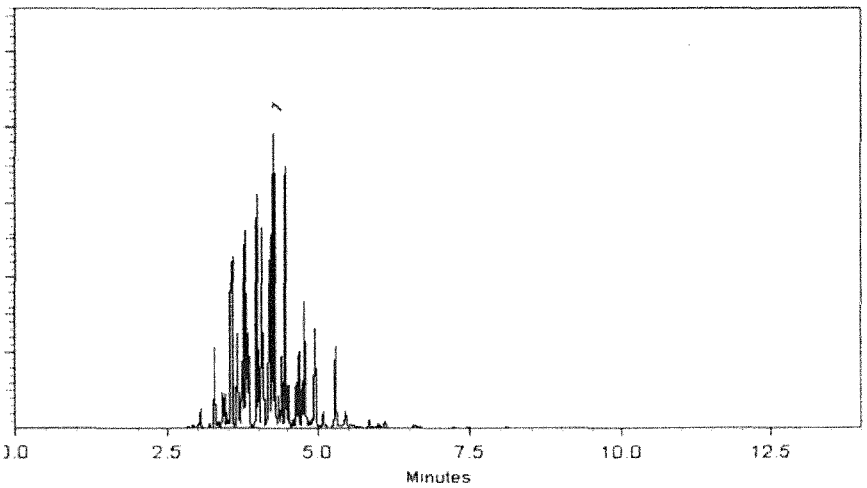
Carrier Gas:
helium-constant pressure 20 psi.

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)

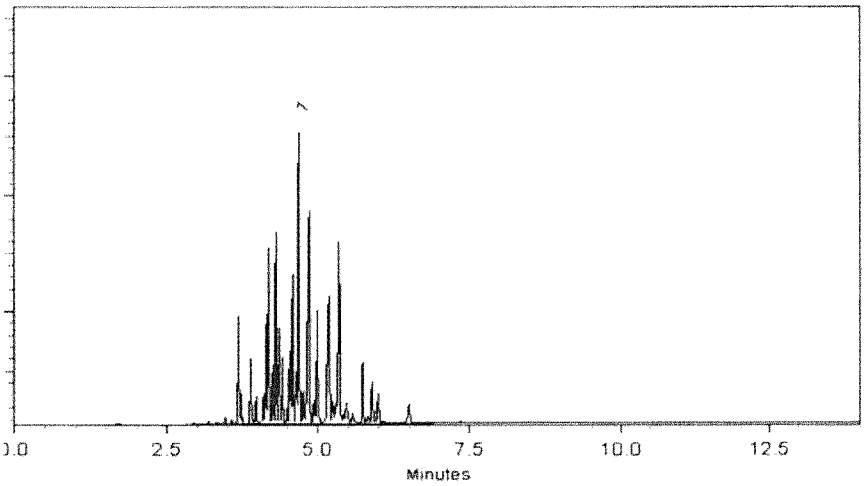
Carrier Gas:
helium-constant pressure 20 psi.

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

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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. : 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)

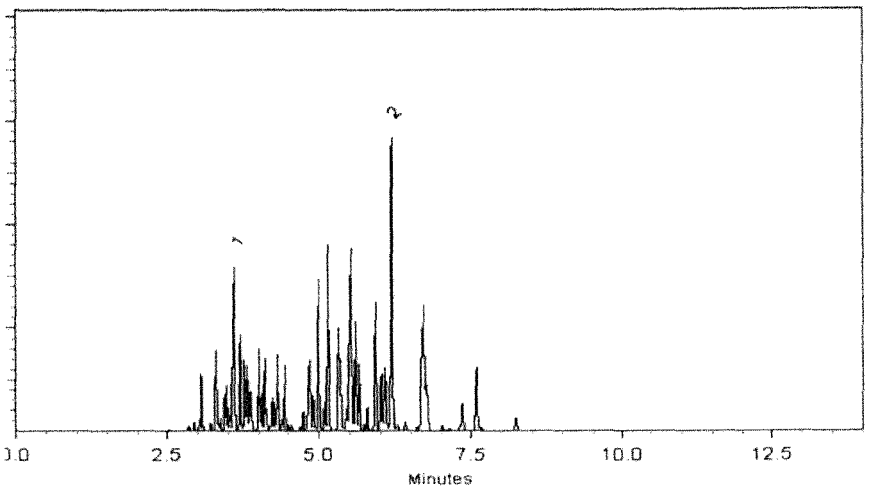
Carrier Gas:
helium-constant pressure 20 psi.

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

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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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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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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: _____

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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
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Open --/--/-- By --

Honeywell

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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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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)

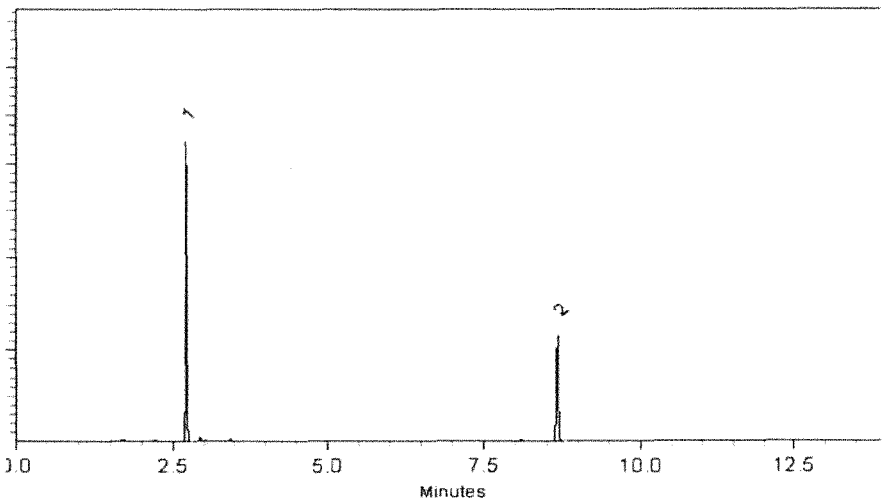
Carrier Gas:
helium-constant pressure 20 psi.

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

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	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

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

o2si smart solutions®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

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 Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

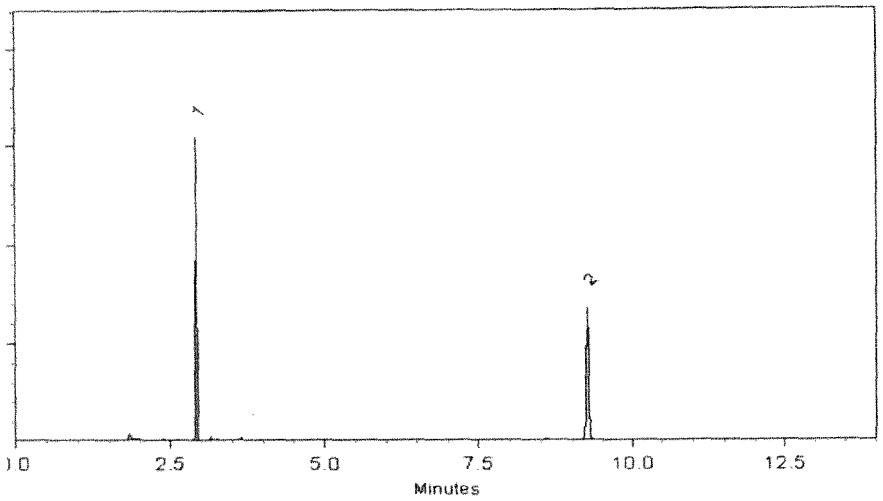
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

SAMPLE NO.

FD1-170613-01-BB-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.52		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.35		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.35		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.35		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.68		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.50		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.55		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.63		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.63		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.47		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.44		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.38		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.56		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.48		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.75		%	1	03/20/2018 08:27

SAMPLE NO.

FD1-170613-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151705018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.40		%	1	03/20/2018 08:27

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1661134	C
Lipid									<0.030	U

SAMPLE NO.

1661137DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151705 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.75	0.72	5

Prep Log Report

Batch Information: OEXT 283726 LIPIDS **Template Version: F-GB-O-145-Rev.00 (17Feb2015) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:31				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1661134**	Y	-0.01500	03/20/2018 08:27:32		10	5	1	0.9268	0.9265	M	
LIPID	BLANK	**1661135**	Y	-0.04000	03/20/2018 08:27:32		10	5	1	0.9223	0.9215	M	
LIPID	PS	**40151614007**	Y	0.6113	03/20/2018 08:27:32		9.9789	5	1	0.9271	0.9393	M	
LIPID	PS	**40151614008**	Y	0.5970	03/20/2018 08:27:32		9.9668	5	1	0.9244	0.9363	M	
LIPID	PS	**40151705001**	Y	0.5241	03/20/2018 08:27:32		10.0179	5	1	0.9239	0.9344	M	
LIPID	PS	**40151705002**	Y	0.3509	03/20/2018 08:27:32		9.9736	5	1	0.9227	0.9297	M	
LIPID	PS	**40151705003**	Y	0.3508	03/20/2018 08:27:32		9.9774	5	1	0.9267	0.9337	M	
LIPID	PS	**40151705004**	Y	0.3492	03/20/2018 08:27:32		10.0227	5	1	0.9234	0.9304	M	
LIPID	PS	**40151705005**	Y	0.6799	03/20/2018 08:27:32		10.0013	5	1	0.9293	0.9429	M	
LIPID	PS	**40151705006**	Y	1.252	03/20/2018 08:27:32		9.9835	5	1	0.9265	0.9515	M	
LIPID	PS	**40151705007**	Y	0.4995	03/20/2018 08:27:32		10.0108	5	1	0.9258	0.9358	M	
LIPID	PS	**40151705008**	Y	0.5515	03/20/2018 08:27:32		9.9731	5	1	0.9271	0.9381	M	
LIPID	PS	**40151705009**	Y	0.6278	03/20/2018 08:27:32		10.0354	5	1	0.9231	0.9357	M	
LIPID	PS	**40151705010**	Y	0.6336	03/20/2018 08:27:32		10.022	5	1	0.9228	0.9355	M	
LIPID	PS	**40151705011**	Y	0.4738	03/20/2018 08:27:32		10.0245	5	1	0.9279	0.9374	M	
LIPID	PS	**40151705012**	Y	0.4412	03/20/2018 08:27:32		9.973	5	1	0.9252	0.934	M	
LIPID	PS	**40151705013**	Y	0.3797	03/20/2018 08:27:32		10.0077	5	1	0.9244	0.932	M	
LIPID	PS	**40151705014**	Y	1.522	03/20/2018 08:27:32		10.0189	5	1	0.9244	0.9549	M	
LIPID	PS	**40151705015**	Y	0.5640	03/20/2018 08:27:32		10.0181	5	1	0.9231	0.9344	M	

Prep Log Report

40151705

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40151705016**	Y	0.4832	03/20/2018 08:27:32		10.0368	5	1	0.9248	0.9345	M	
LIPID	RQS	**40151705017**	Y	0.7547	03/20/2018 08:27:32		10.0037	5	1	0.9266	0.9417	M	
LIPID	DUP	**1661137**	Y	0.7172	03/20/2018 08:27:32		10.0385	5	1	0.9223	0.9367	M	
LIPID	PS	**40151705018**	Y	0.4006	03/20/2018 08:27:32		9.9851	5	1	0.9258	0.9338	M	
LIPID	MS	**1682476**	Y	0.7454	03/20/2018 08:27:32		9.9949	5	1	.9244	0.9393	M	

40151705

Client Name: GE
Project #: 40151705
Sample Type: Fish
Date/Time Removed to Thaw: 03-14-18
Date/Time Prepped: 03-15-18
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	B	F	Y	354.0	Y	M	93.7	Left / Both	Y	9AG	1	Y	90.7	C	
2	B	F	Y	407.7	Y	F	47.3	Left / Both	Y	9AG	1	Y	46.0	C	
3	B	F	Y	607.6	Y	M	78.0	Left / Both	Y	9AG	1	Y	77.3	C	
4	B	F	Y	592.5	Y	F	78.8	Left / Both	Y	9AG	1	Y	76.7	C	
5	B	F	Y	766.1	Y	F	110.9	Left / Both	Y	9AG	1	Y	109.5	C	
6	B	F	Y	441.1	Y	M	60.0	Left / Both	Y	9AG	1	Y	59.2	C	
7	B	F	Y	418.0	Y	F	65.9	Left / Both	Y	9AG	1	Y	63.9	C	
8	B	F	Y	591.8	Y	F	90.8	Left / Both	Y	9AG	1	Y	89.3	C	
9	B	F	Y	717.8	Y	F	104.0	Left / Both	Y	9AG	1	Y	103.3	C	
10	B	F	Y	582.9	Y	F	70.3	Left / Both	Y	9AG	1	Y	67.9	C	
11	B	F	Y	530.4	Y	F	60.7	Left / Both	Y	9AG	1	Y	58.5	C	
12	B	F	Y	355.9	Y	F	48.7	Left / Both	Y	9AG	1	Y	45.8	C	
13	B	F	Y	481.5	Y	M	61.7	Left / Both	Y	9AG	1	Y	61.4	C	
14	B	F	Y	616.4	Y	F	89.3	Left / Both	Y	9AG	1	Y	88.6	C	
15	B	F	Y	509.0	Y	F	72.9	Left / Both	Y	9AG	1	Y	72.1	C	
16	B	F	Y	614.4	Y	F	73.5	Left / Both	Y	9AG	1	Y	71.1	C	
17	B	F	Y	636.0	Y	F	73.9	Left / Both	Y	9AG	1	Y	CWN ~~73.0~~ 71.4	C	71.4 Homo wt
18	B	F	Y	526.7	Y	M	83.3	Left / Both	Y	9AG	1	Y	82.0	C	
								Left / Both							
						CWN	03-15-18	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

3/16/18
Date

561 of 561