Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151612

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

May 03, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

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

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

Sincerely,

Tod Noltemeyer

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

Enclosures

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

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

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.: 40151612

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151612001	**FD1-170613-01-YP-20**	Tissue	06/13/17 10:08	06/14/17 09:50
40151612002	**FD1-170613-01-YP-19**	Tissue	06/13/17 10:06	06/14/17 09:50
40151612003	**FD1-170613-01-YP-18**	Tissue	06/13/17 10:03	06/14/17 09:50
40151612004	**FD1-170613-01-YP-17**	Tissue	06/13/17 10:02	06/14/17 09:50
40151612005	**FD1-170613-01-YP-16**	Tissue	06/13/17 10:00	06/14/17 09:50
40151612006	**FD1-170613-01-YP-15**	Tissue	06/13/17 09:58	06/14/17 09:50
40151612007	**FD1-170613-01-YP-14**	Tissue	06/13/17 09:56	06/14/17 09:50
40151612008	**FD1-170613-01-YP-13**	Tissue	06/13/17 09:54	06/14/17 09:50
40151612009	**FD1-170613-01-YP-12**	Tissue	06/13/17 09:53	06/14/17 09:50
40151612010	**FD1-170613-01-YP-11**	Tissue	06/13/17 09:50	06/14/17 09:50
40151612011	**FD1-170613-01-YP-10**	Tissue	06/13/17 09:48	06/14/17 09:50
40151612012	**FD1-170613-01-YP-09**	Tissue	06/13/17 09:47	06/14/17 09:50
40151612013	**FD1-170613-01-YP-08**	Tissue	06/13/17 09:45	06/14/17 09:50
40151612014	**FD1-170613-01-YP-07**	Tissue	06/13/17 09:43	06/14/17 09:50
40151612015	**FD1-170613-01-YP-06**	Tissue	06/13/17 09:41	06/14/17 09:50
40151612016	**FD1-170613-01-YP-05**	Tissue	06/13/17 09:39	06/14/17 09:50
40151612017	**FD1-170613-01-YP-04**	Tissue	06/13/17 09:36	06/14/17 09:50
40151612018	**FD1-170613-01-YP-03**	Tissue	06/13/17 09:35	06/14/17 09:50
40151612019	**FD1-170613-01-YP-02**	Tissue	06/13/17 09:34	06/14/17 09:50
40151612020	**FD1-170613-01-YP-01**	Tissue	06/13/17 09:32	06/14/17 09:50

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151612001	FD1-170613-01-YP-20	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612002	FD1-170613-01-YP-19	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612003	FD1-170613-01-YP-18	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612004	FD1-170613-01-YP-17	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612005	FD1-170613-01-YP-16	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612006	FD1-170613-01-YP-15	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612007	FD1-170613-01-YP-14	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612008	FD1-170613-01-YP-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612009	FD1-170613-01-YP-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612010	FD1-170613-01-YP-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612011	FD1-170613-01-YP-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612012	FD1-170613-01-YP-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612013	FD1-170613-01-YP-08	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612014	**FD1-170613-01-YP-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612015	**FD1-170613-01-YP-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612016	**FD1-170613-01-YP-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612017	**FD1-170613-01-YP-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612018	**FD1-170613-01-YP-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612019	**FD1-170613-01-YP-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151612020	**FD1-170613-01-YP-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Date: May 03, 2018

Samples may have ice meltwater in the ziplock bags.

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

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

General Information:
20 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.: 40151612

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

General Information:
20 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.: 40151612

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

General Information:
20 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.: 40151612

Sample: FD1-170613-01-YP-20 **Lab ID: 40151612001** Collected: 06/13/17 10:08 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**17.3J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**11.5J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	11096-82-5	
PCB, Total	**28.8J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 14:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	03/21/18 07:00	03/22/18 14:30	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/21/18 07:00	03/22/18 14:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.46**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-19 **Lab ID: 40151612002** Collected: 06/13/17 10:06 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**11.4J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**13.7J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	11096-82-5	
PCB, Total	**25.1J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 14:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		1	03/21/18 07:00	03/22/18 14:45	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/21/18 07:00	03/22/18 14:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-18 **Lab ID: 40151612003** Collected: 06/13/17 10:03 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**16.4J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**23.9J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**12.2J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	11096-82-5	
PCB, Total	**52.5**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	03/21/18 07:00	03/22/18 15:01	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/21/18 07:00	03/22/18 15:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-17 **Lab ID: 40151612004** Collected: 06/13/17 10:02 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	03/21/18 07:00	03/22/18 15:17	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/21/18 07:00	03/22/18 15:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.99**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-16 **Lab ID: 40151612005** Collected: 06/13/17 10:00 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**28.3J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**16.3J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	11096-82-5	
PCB, Total	**44.6J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 15:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/21/18 07:00	03/22/18 15:33	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		1	03/21/18 07:00	03/22/18 15:33	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.56**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-15 **Lab ID: 40151612006** Collected: 06/13/17 09:58 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**32.1J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.2J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	11096-82-5	
PCB, Total	**52.3**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 15:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		1	03/21/18 07:00	03/22/18 15:49	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/21/18 07:00	03/22/18 15:49	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.61**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-14 **Lab ID: 40151612007** Collected: 06/13/17 09:56 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 16:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		1	03/21/18 07:00	03/22/18 16:05	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/21/18 07:00	03/22/18 16:05	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-13 **Lab ID: 40151612008** Collected: 06/13/17 09:54 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 16:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/21/18 07:00	03/22/18 16:52	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	03/21/18 07:00	03/22/18 16:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-12 **Lab ID: 40151612009** Collected: 06/13/17 09:53 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/21/18 07:00	03/22/18 17:08	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/21/18 07:00	03/22/18 17:08	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.87**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-11 **Lab ID: 40151612010** Collected: 06/13/17 09:50 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.2	11.4	1	03/21/18 07:00	03/22/18 17:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/21/18 07:00	03/22/18 17:24	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/21/18 07:00	03/22/18 17:24	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.83**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-10 **Lab ID: 40151612011** Collected: 06/13/17 09:48 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 17:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/21/18 07:00	03/22/18 17:40	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	03/21/18 07:00	03/22/18 17:40	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.89**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-09 **Lab ID: 40151612012** Collected: 06/13/17 09:47 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 17:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/21/18 07:00	03/22/18 17:56	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/21/18 07:00	03/22/18 17:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-08 **Lab ID: 40151612013** Collected: 06/13/17 09:45 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/21/18 07:00	03/22/18 18:11	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/21/18 07:00	03/22/18 18:11	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:16		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.77**	%	0.030	0.030	1		03/21/18 09:24		

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-07 **Lab ID: 40151612014** Collected: 06/13/17 09:43 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**17.7J**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**14.8J**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	11096-82-5	
PCB, Total	**32.6J**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 18:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	03/21/18 07:00	03/22/18 18:27	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/21/18 07:00	03/22/18 18:27	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-06 **Lab ID: 40151612015** Collected: 06/13/17 09:41 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**45.5J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.4J**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	11096-82-5	
PCB, Total	**67.8**	ug/kg	50.1	11.4	1	03/21/18 07:00	03/22/18 18:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/21/18 07:00	03/22/18 18:43	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/21/18 07:00	03/22/18 18:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.83**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-05 **Lab ID: 40151612016** Collected: 06/13/17 09:39 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**27.8J**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**16.1J**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	11096-82-5	
PCB, Total	**43.9J**	ug/kg	49.8	11.4	1	03/21/18 07:00	03/22/18 18:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		1	03/21/18 07:00	03/22/18 18:59	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/21/18 07:00	03/22/18 18:59	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-04 **Lab ID: 40151612017** Collected: 06/13/17 09:36 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**38.6J**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.1J**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	11096-82-5	
PCB, Total	**58.7**	ug/kg	49.9	11.4	1	03/21/18 07:00	03/22/18 19:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/21/18 07:00	03/22/18 19:15	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/21/18 07:00	03/22/18 19:15	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.83**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-03 **Lab ID: 40151612018** Collected: 06/13/17 09:35 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**33.2J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.1J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	11096-82-5	
PCB, Total	**54.2**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	03/21/18 07:00	03/22/18 20:18	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/21/18 07:00	03/22/18 20:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-02 **Lab ID: 40151612019** Collected: 06/13/17 09:34 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**12.9J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	11096-82-5	
PCB, Total	**12.9J**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/21/18 07:00	03/22/18 20:34	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/21/18 07:00	03/22/18 20:34	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.53**	%	0.030	0.030	1		03/21/18 09:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Sample: FD1-170613-01-YP-01 **Lab ID: 40151612020** Collected: 06/13/17 09:32 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.0	11.4	1	03/21/18 07:00	03/22/18 20:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/21/18 07:00	03/22/18 20:50	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/21/18 07:00	03/22/18 20:50	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/15/18 14:17		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.45**	%	0.030	0.030	1		03/21/18 09:24		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

QC Batch: 283848 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151612001, 40151612002, 40151612003, 40151612004, 40151612005, 40151612006, 40151612007, 40151612008, 40151612009, 40151612010, 40151612011, 40151612012, 40151612013, 40151612014, 40151612015, 40151612016, 40151612017, 40151612018, 40151612019, 40151612020

METHOD BLANK: 1661578 | Matrix: Tissue
Associated Lab Samples: 40151612001, 40151612002, 40151612003, 40151612004, 40151612005, 40151612006, 40151612007, 40151612008, 40151612009, 40151612010, 40151612011, 40151612012, 40151612013, 40151612014, 40151612015, 40151612016, 40151612017, 40151612018, 40151612019, 40151612020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/22/18 13:42	
Decachlorobiphenyl (S)	%	81	60-140		03/22/18 13:42	
Tetrachloro-m-xylene (S)	%	73	60-140		03/22/18 13:42	

LABORATORY CONTROL SAMPLE: 1661579

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	221	88	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)	%			75	60-140	
Tetrachloro-m-xylene (S)	%			74	60-140	

MATRIX SPIKE SAMPLE: 1661580

Parameter	Units	40151612017 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	242	97	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	38.6J		178			
PCB-1254 (Aroclor 1254)	ug/kg	20.1J		37.5J			
PCB-1260 (Aroclor 1260)	ug/kg	<11.4		<11.4			
Decachlorobiphenyl (S)	%				82	60-140	
Tetrachloro-m-xylene (S)	%				78	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.: 40151612

SAMPLE DUPLICATE: 1661581

Parameter	Units	40151612017 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	38.6J	36.0J		40	
PCB-1254 (Aroclor 1254)	ug/kg	20.1J	18.3J		40	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	<11.4		40	
Decachlorobiphenyl (S)	%	91	90	2		
Tetrachloro-m-xylene (S)	%	84	84	0		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

QC Batch: 283884 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151612001, 40151612002, 40151612003, 40151612004, 40151612005, 40151612006, 40151612007, 40151612008, 40151612009, 40151612010, 40151612011, 40151612012, 40151612013, 40151612014, 40151612015, 40151612016, 40151612017, 40151612018, 40151612019, 40151612020

METHOD BLANK: 1661681 | Matrix: Tissue
Associated Lab Samples: 40151612001, 40151612002, 40151612003, 40151612004, 40151612005, 40151612006, 40151612007, 40151612008, 40151612009, 40151612010, 40151612011, 40151612012, 40151612013, 40151612014, 40151612015, 40151612016, 40151612017, 40151612018, 40151612019, 40151612020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/21/18 09:24	

MATRIX SPIKE SAMPLE: 1682456

Parameter	Units	40151612017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.83		0.65			

SAMPLE DUPLICATE: 1661684

Parameter	Units	40151612017 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.83	0.71	16	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 40151612

[1] Samples may have ice meltwater in the ziplock bags.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151612001	**FD1-170613-01-YP-20**	EPA 3541	283848	EPA 8082A Mod	284021
40151612002	**FD1-170613-01-YP-19**	EPA 3541	283848	EPA 8082A Mod	284021
40151612003	**FD1-170613-01-YP-18**	EPA 3541	283848	EPA 8082A Mod	284021
40151612004	**FD1-170613-01-YP-17**	EPA 3541	283848	EPA 8082A Mod	284021
40151612005	**FD1-170613-01-YP-16**	EPA 3541	283848	EPA 8082A Mod	284021
40151612006	**FD1-170613-01-YP-15**	EPA 3541	283848	EPA 8082A Mod	284021
40151612007	**FD1-170613-01-YP-14**	EPA 3541	283848	EPA 8082A Mod	284021
40151612008	**FD1-170613-01-YP-13**	EPA 3541	283848	EPA 8082A Mod	284021
40151612009	**FD1-170613-01-YP-12**	EPA 3541	283848	EPA 8082A Mod	284021
40151612010	**FD1-170613-01-YP-11**	EPA 3541	283848	EPA 8082A Mod	284021
40151612011	**FD1-170613-01-YP-10**	EPA 3541	283848	EPA 8082A Mod	284021
40151612012	**FD1-170613-01-YP-09**	EPA 3541	283848	EPA 8082A Mod	284021
40151612013	**FD1-170613-01-YP-08**	EPA 3541	283848	EPA 8082A Mod	284021
40151612014	**FD1-170613-01-YP-07**	EPA 3541	283848	EPA 8082A Mod	284021
40151612015	**FD1-170613-01-YP-06**	EPA 3541	283848	EPA 8082A Mod	284021
40151612016	**FD1-170613-01-YP-05**	EPA 3541	283848	EPA 8082A Mod	284021
40151612017	**FD1-170613-01-YP-04**	EPA 3541	283848	EPA 8082A Mod	284021
40151612018	**FD1-170613-01-YP-03**	EPA 3541	283848	EPA 8082A Mod	284021
40151612019	**FD1-170613-01-YP-02**	EPA 3541	283848	EPA 8082A Mod	284021
40151612020	**FD1-170613-01-YP-01**	EPA 3541	283848	EPA 8082A Mod	284021
40151612001	**FD1-170613-01-YP-20**	Pace Gender Typing	283426		
40151612002	**FD1-170613-01-YP-19**	Pace Gender Typing	283426		
40151612003	**FD1-170613-01-YP-18**	Pace Gender Typing	283426		
40151612004	**FD1-170613-01-YP-17**	Pace Gender Typing	283426		
40151612005	**FD1-170613-01-YP-16**	Pace Gender Typing	283426		
40151612006	**FD1-170613-01-YP-15**	Pace Gender Typing	283426		
40151612007	**FD1-170613-01-YP-14**	Pace Gender Typing	283426		
40151612008	**FD1-170613-01-YP-13**	Pace Gender Typing	283426		
40151612009	**FD1-170613-01-YP-12**	Pace Gender Typing	283426		
40151612010	**FD1-170613-01-YP-11**	Pace Gender Typing	283426		
40151612011	**FD1-170613-01-YP-10**	Pace Gender Typing	283426		
40151612012	**FD1-170613-01-YP-09**	Pace Gender Typing	283426		
40151612013	**FD1-170613-01-YP-08**	Pace Gender Typing	283426		
40151612014	**FD1-170613-01-YP-07**	Pace Gender Typing	283426		
40151612015	**FD1-170613-01-YP-06**	Pace Gender Typing	283426		
40151612016	**FD1-170613-01-YP-05**	Pace Gender Typing	283426		
40151612017	**FD1-170613-01-YP-04**	Pace Gender Typing	283426		
40151612018	**FD1-170613-01-YP-03**	Pace Gender Typing	283426		
40151612019	**FD1-170613-01-YP-02**	Pace Gender Typing	283426		
40151612020	**FD1-170613-01-YP-01**	Pace Gender Typing	283426		
40151612001	**FD1-170613-01-YP-20**	Pace Lipid	283884		
40151612002	**FD1-170613-01-YP-19**	Pace Lipid	283884		
40151612003	**FD1-170613-01-YP-18**	Pace Lipid	283884		
40151612004	**FD1-170613-01-YP-17**	Pace Lipid	283884		
40151612005	**FD1-170613-01-YP-16**	Pace Lipid	283884		
40151612006	**FD1-170613-01-YP-15**	Pace Lipid	283884		
40151612007	**FD1-170613-01-YP-14**	Pace Lipid	283884		
40151612008	**FD1-170613-01-YP-13**	Pace Lipid	283884		

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151612

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151612009	**FD1-170613-01-YP-12**	Pace Lipid	283884		
40151612010	**FD1-170613-01-YP-11**	Pace Lipid	283884		
40151612011	**FD1-170613-01-YP-10**	Pace Lipid	283884		
40151612012	**FD1-170613-01-YP-09**	Pace Lipid	283884		
40151612013	**FD1-170613-01-YP-08**	Pace Lipid	283884		
40151612014	**FD1-170613-01-YP-07**	Pace Lipid	283884		
40151612015	**FD1-170613-01-YP-06**	Pace Lipid	283884		
40151612016	**FD1-170613-01-YP-05**	Pace Lipid	283884		
40151612017	**FD1-170613-01-YP-04**	Pace Lipid	283884		
40151612018	**FD1-170613-01-YP-03**	Pace Lipid	283884		
40151612019	**FD1-170613-01-YP-02**	Pace Lipid	283884		
40151612020	**FD1-170613-01-YP-01**	Pace Lipid	283884		

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40151612

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-03
Sample Custodian: MCS
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	001	FD1-170613-01	FD1-170613-01-YP-20	6/13/2017	10:08	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	002	FD1-170613-01	FD1-170613-01-YP-19	6/13/2017	10:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	003	FD1-170613-01	FD1-170613-01-YP-18	6/13/2017	10:03	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	004	FD1-170613-01	FD1-170613-01-YP-17	6/13/2017	10:02	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	005	FD1-170613-01	FD1-170613-01-YP-16	6/13/2017	10:00	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	006	FD1-170613-01	FD1-170613-01-YP-15	6/13/2017	9:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	007	FD1-170613-01	FD1-170613-01-YP-14	6/13/2017	9:56	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	008	FD1-170613-01	FD1-170613-01-YP-13	6/13/2017	9:54	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	009	FD1-170613-01	FD1-170613-01-YP-12	6/13/2017	9:53	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	010	FD1-170613-01	FD1-170613-01-YP-11	6/13/2017	9:50	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziplock A

Comments:

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

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

40151612

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-03
Sample Custodian: MCS
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	011	FD1-170613-01	FD1-170613-01-YP-10	6/13/2017	9:48	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	012	FD1-170613-01	FD1-170613-01-YP-09	6/13/2017	9:47	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	013	FD1-170613-01	FD1-170613-01-YP-08	6/13/2017	9:45	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	014	FD1-170613-01	FD1-170613-01-YP-07	6/13/2017	9:43	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	015	FD1-170613-01	FD1-170613-01-YP-06	6/13/2017	9:41	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	016	FD1-170613-01	FD1-170613-01-YP-05	6/13/2017	9:39	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	017	FD1-170613-01	FD1-170613-01-YP-04	6/13/2017	9:36	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	018	FD1-170613-01	FD1-170613-01-YP-03	6/13/2017	9:35	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	019	FD1-170613-01	FD1-170613-01-YP-02	6/13/2017	9:34	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	020	FD1-170613-01	FD1-170613-01-YP-01	6/13/2017	9:32	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc A

Comments:

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

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***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#: 40151612

40151612

Client Name: Anchor

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

Tracking #: 786867884126, 786867884090, 786867884104

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

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

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

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

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

Temp Blank Present: ☑ yes ☐ no

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

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

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

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

Person Contacted: Date/Time:

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

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

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40151612
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample FD1-170613-01-YP-04 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-YP-04 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: 05/08/18

Name: Leigh A. Begalske Position: Quality Assurance Auditor

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151612 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1661578	1661578BLANK	81	73
1661579	1661579LCS	75	74
1661580	1661580MS	82	78
1661581	1661581DUP	90	84
40151612001	FD1-170613-01-YP-20	88	88
40151612002	FD1-170613-01-YP-19	89	92
40151612003	FD1-170613-01-YP-18	89	91
40151612004	FD1-170613-01-YP-17	88	86
40151612005	FD1-170613-01-YP-16	86	81
40151612006	FD1-170613-01-YP-15	88	83
40151612007	FD1-170613-01-YP-14	88	83
40151612008	FD1-170613-01-YP-13	84	81
40151612009	FD1-170613-01-YP-12	90	85
40151612010	FD1-170613-01-YP-11	91	84
40151612011	FD1-170613-01-YP-10	97	85
40151612012	FD1-170613-01-YP-09	95	89
40151612013	FD1-170613-01-YP-08	93	93
40151612014	FD1-170613-01-YP-07	90	86
40151612015	FD1-170613-01-YP-06	87	81
40151612016	FD1-170613-01-YP-05	94	94
40151612017	FD1-170613-01-YP-04	91	84
40151612018	FD1-170613-01-YP-03	98	96
40151612019	FD1-170613-01-YP-02	92	89
40151612020	FD1-170613-01-YP-01	93	85

	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: 03/21/2018

Instrument: 40GCSJ

Lab File ID: 032218.B\032218007.D

Lab Sample ID: 1661579LCS

Date Analyzed (1): 03/22/2018

LCS Lot No: 182336

SDG No.: 40151612

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	221	88	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: 03/21/2018

Instrument: 40GCSJ

Parent Sample ID: FD1-170613-01-YP-04

Matrix Spike - Sample No: 1661580MS

Date Analyzed (1): 03/22/2018

Lab File ID: 032218.B\032218008.D

SDG No.: 40151612

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	242	97	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: 03/21/2018

Instrument 40GCSJ

Lab Sample ID: FD1-170613-01-YP-04

Duplicate Sample No: 40151612017DUP

Date Analyzed: 03/22/2018

Lab File ID: 032218.B\032218030.D

SDG No.: 40151612

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)	38.6J	36.0J		0-40
PCB-1254 (Aroclor 1254)	20.1J	18.3J		0-40
PCB-1260 (Aroclor 1260)	<11.4	<11.4		0-40

RPD: ____ out of __0__ outside limits.

SAMPLE NO.

1661578BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151612 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1661578

Lab File ID: 032218.B\032218006.D Date Analyzed: 03/22/2018 Time:13:42

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1661579LCS	1661579	032218.B\032218007.D	03/22/2018 13:58
1661580MS	1661580	032218.B\032218008.D	03/22/2018 14:14
FD1-170613-01-YP-20	40151612001	032218.B\032218009.D	03/22/2018 14:30
FD1-170613-01-YP-19	40151612002	032218.B\032218010.D	03/22/2018 14:45
FD1-170613-01-YP-18	40151612003	032218.B\032218011.D	03/22/2018 15:01
FD1-170613-01-YP-17	40151612004	032218.B\032218012.D	03/22/2018 15:17
FD1-170613-01-YP-16	40151612005	032218.B\032218013.D	03/22/2018 15:33
FD1-170613-01-YP-15	40151612006	032218.B\032218014.D	03/22/2018 15:49
FD1-170613-01-YP-14	40151612007	032218.B\032218015.D	03/22/2018 16:05
FD1-170613-01-YP-13	40151612008	032218.B\032218018.D	03/22/2018 16:52
FD1-170613-01-YP-12	40151612009	032218.B\032218019.D	03/22/2018 17:08
FD1-170613-01-YP-11	40151612010	032218.B\032218020.D	03/22/2018 17:24
FD1-170613-01-YP-10	40151612011	032218.B\032218021.D	03/22/2018 17:40
FD1-170613-01-YP-09	40151612012	032218.B\032218022.D	03/22/2018 17:56
FD1-170613-01-YP-08	40151612013	032218.B\032218023.D	03/22/2018 18:11
FD1-170613-01-YP-07	40151612014	032218.B\032218024.D	03/22/2018 18:27
FD1-170613-01-YP-06	40151612015	032218.B\032218025.D	03/22/2018 18:43
FD1-170613-01-YP-05	40151612016	032218.B\032218026.D	03/22/2018 18:59
FD1-170613-01-YP-04	40151612017	032218.B\032218027.D	03/22/2018 19:15
1661581DUP	1661581	032218.B\032218030.D	03/22/2018 20:02
FD1-170613-01-YP-03	40151612018	032218.B\032218031.D	03/22/2018 20:18
FD1-170613-01-YP-02	40151612019	032218.B\032218032.D	03/22/2018 20:34
FD1-170613-01-YP-01	40151612020	032218.B\032218033.D	03/22/2018 20:50

SAMPLE NO.

FD1-170613-01-YP-20

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612001
Date Analyzed: 03/22/2018 14:30
Lab File ID: 032218.B\032218009.D
Initial wt/vol: 9.9772 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)	17.3	J
11097-69-1	PCB-1254 (Aroclor 1254)	11.5	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	28.8	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218009.D
Lab Smp Id: 40151612001 Client Smp ID: FD1-170613-01-YP-20
Inj Date : 22-MAR-2018 14:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612001,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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
1.157	16472	14926	0.906	0.06		
1.184	23315	17951	0.770	0.09		
1.429	12892	11217	0.870	0.05		
2.197	57694	36642	0.635	0.22		
2.315	14199	13883	0.978	0.05		
2.410	32611	31384	0.962	0.12		
2.485	10909440	10428076	0.956	42.78	$ 2 Tetrachloro-m-xylene	
2.788	17961	17371	0.967	0.06		
2.863	24588	17290	0.703	0.09		
2.918	9485	7235	0.763	0.03		
2.989	15436	18276	1.184	0.05		
3.017	23266	21855	0.939	0.09		
3.827	53314	36407	0.683	0.20		
3.991	18826	14269	0.758	0.07		
4.213	65304	60541	0.927	0.25		
4.240	9661	15349	1.589	0.03		
4.260	71179	68406	0.961	0.27	6 Aroclor 1248	CO
4.293	61336	41667	0.679	0.23		
4.417	58174	51014	0.877	0.22		
4.453	44200	34897	0.790	0.17		
4.543	94186	77030	0.818	0.36	6 Aroclor 1248	CO
4.610	23095	14199	0.615	0.08		
4.766	28386	27155	0.957	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	101362	91501	0.903	0.39	6 Aroclor 1248
4.847	72169	64888	0.899	0.28	
4.879	242134	171431	0.708	0.94	6 Aroclor 1248
4.958	32825	20783	0.633	0.12	
5.038	78817	75861	0.962	0.30	6 Aroclor 1248
5.056	10545	11577	1.098	0.04	
5.099	62029	44311	0.714	0.24	
5.162	110630	98648	0.892	0.42	7 Aroclor 1254
5.211	109605	92811	0.847	0.42	
5.279	15288	12102	0.792	0.05	
5.310	40691	34773	0.855	0.15	
5.361	41308	37223	0.901	0.16	
5.406	69194	61507	0.889	0.26	7 Aroclor 1254
5.450	373650	345857	0.926	1.45	
5.509	146873	125606	0.855	0.57	7 Aroclor 1254
5.603	33816	23160	0.685	0.13	
5.674	48174	40492	0.841	0.18	
5.710	28828	23765	0.824	0.11	
5.739	37840	26600	0.703	0.14	
5.788	238670	193790	0.812	0.92	
5.822	47252	28077	0.594	0.18	
5.882	26814	17235	0.643	0.10	
5.992	46459	44485	0.958	0.18	
6.025	112024	99028	0.884	0.43	7 Aroclor 1254
6.055	191336	160103	0.837	0.74	
6.167	51466	30011	0.583	0.19	
6.241	29972	22124	0.738	0.11	
6.298	230524	194869	0.845	0.89	7 Aroclor 1254
6.332	27261	22752	0.835	0.10	
6.432	39501	20167	0.511	0.15	
6.509	99773	85507	0.857	0.38	
6.533	49393	48097	0.974	0.19	
6.559	58842	37291	0.634	0.22	
6.716	54099	38301	0.708	0.21	
6.758	67533	43872	0.650	0.26	
6.798	44039	36152	0.821	0.17	
6.839	28369	19388	0.683	0.11	
6.941	69657	46761	0.671	0.27	
7.003	111691	92157	0.825	0.43	8 Aroclor 1260
7.083	15880	12340	0.777	0.06	
7.249	59704	50331	0.843	0.23	8 Aroclor 1260
7.280	58350	30726	0.527	0.22	
7.339	49408	25329	0.513	0.19	
7.391	32119	26124	0.813	0.12	
7.443	86614	45400	0.524	0.33	8 Aroclor 1260
7.482	55149	28777	0.522	0.21	
7.580	19868	16107	0.811	0.07	
7.623	72566	19858	0.274	0.28	
7.727	58848	40557	0.689	0.22	
7.759	32840	19270	0.587	0.12	
7.800	50974	24271	0.476	0.19	
7.868	12244	11248	0.919	0.04	
7.898	38943	21046	0.540	0.15	8 Aroclor 1260
7.952	26626	17896	0.672	0.10	
8.273	84945	73499	0.865	0.32	
8.374	48393	31308	0.647	0.18	
8.448	18049	14282	0.791	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.480	11575	11296	0.976	0.04	
8.568	9667958	8458490	0.875	37.55	$ 12 Decachlorobiphenyl
8.944	16065	11620	0.723	0.06	
9.166	224572	197072	0.878	0.87	
9.466	20296	11622	0.573	0.07	
9.962	14967	10706	0.715	0.05	
	25742427	22969278		100.000	

Total unknown % area = 14

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218009.D
Lab Smp Id: 40151612001 Client Smp ID: FD1-170613-01-YP-20
Inj Date : 22-MAR-2018 14:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612001,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	10909439	0.08848	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)	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	71178	0.03038	15	0.00- 20.00	100.00(M)	CO
4.543	4.546	-0.003	94185	0.02269	11	0.00- 20.00	132.32	CO
4.812	4.812	0.000	101361	0.04993	25	0.00- 20.00	142.40	CO
4.879	4.879	0.000	242134	0.04807	24	0.00- 20.00	340.18	CO
5.037	5.038	-0.001	78816	0.02196	11	0.00- 20.00	110.73	CO
Average of Peak Concentrations =					17			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	110630	0.02113	10	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	69193	0.01609	8.1	0.00- 20.00	62.54	BA
5.509	5.510	-0.001	146873	0.01891	9.5	0.00- 20.00	132.76	BA
6.025	6.027	-0.002	112024	0.02300	12	0.00- 20.00	101.26	BA
6.297	6.299	-0.002	230524	0.03543	18	0.00- 20.00	208.37	BA
Average of Peak Concentrations =					11			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9667957	0.08824	44			

QC Flag Legend

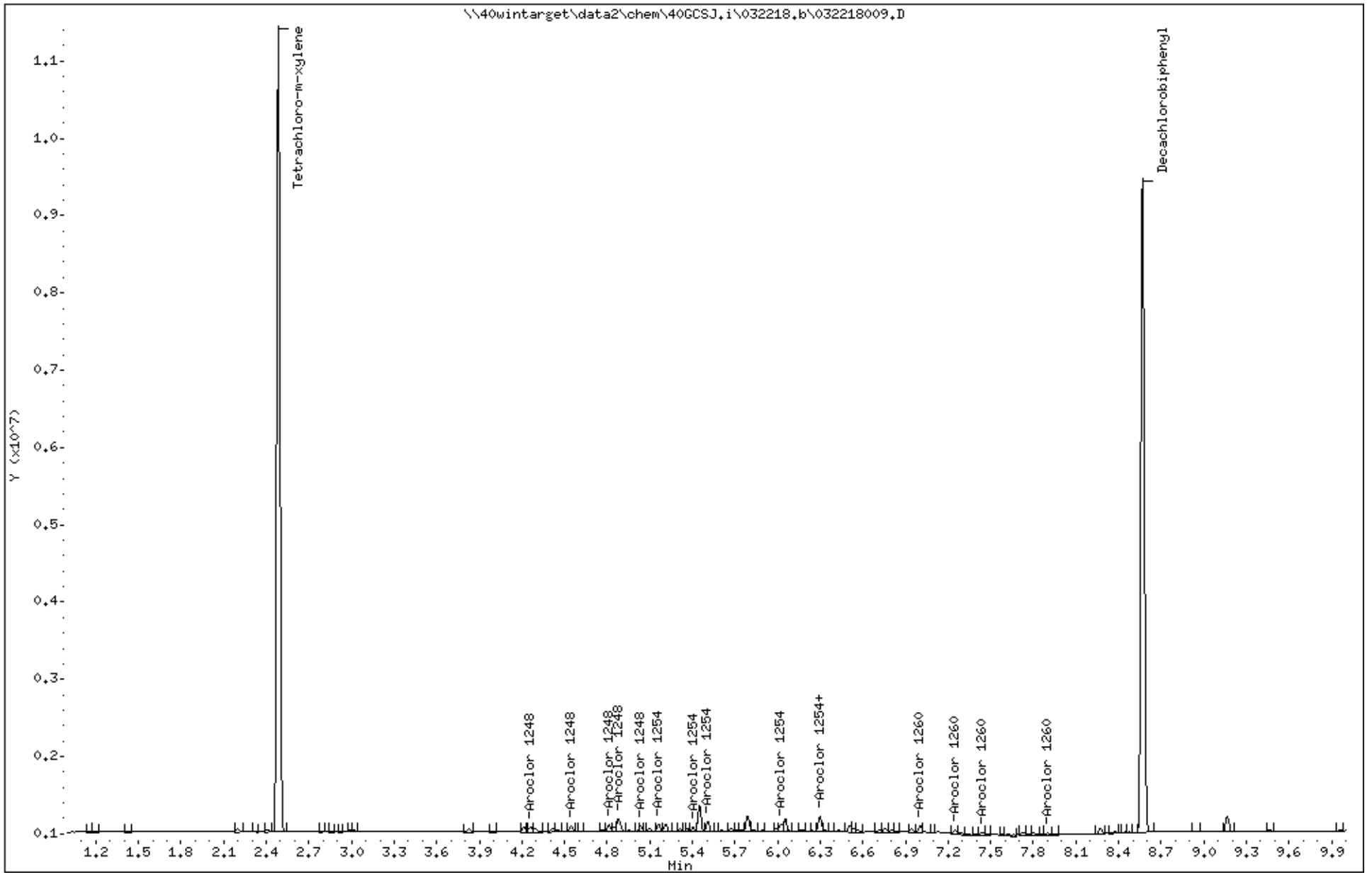
M - Compound response manually integrated.

Review Codes Legend

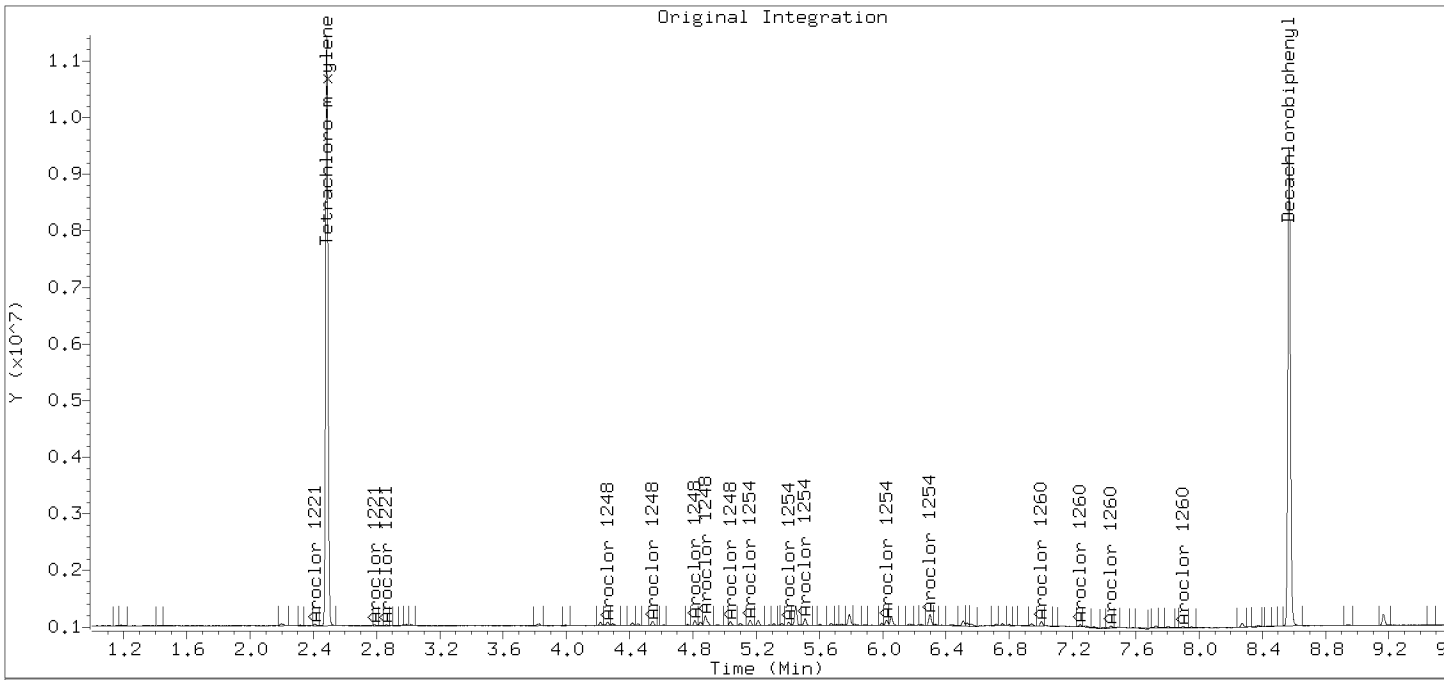
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

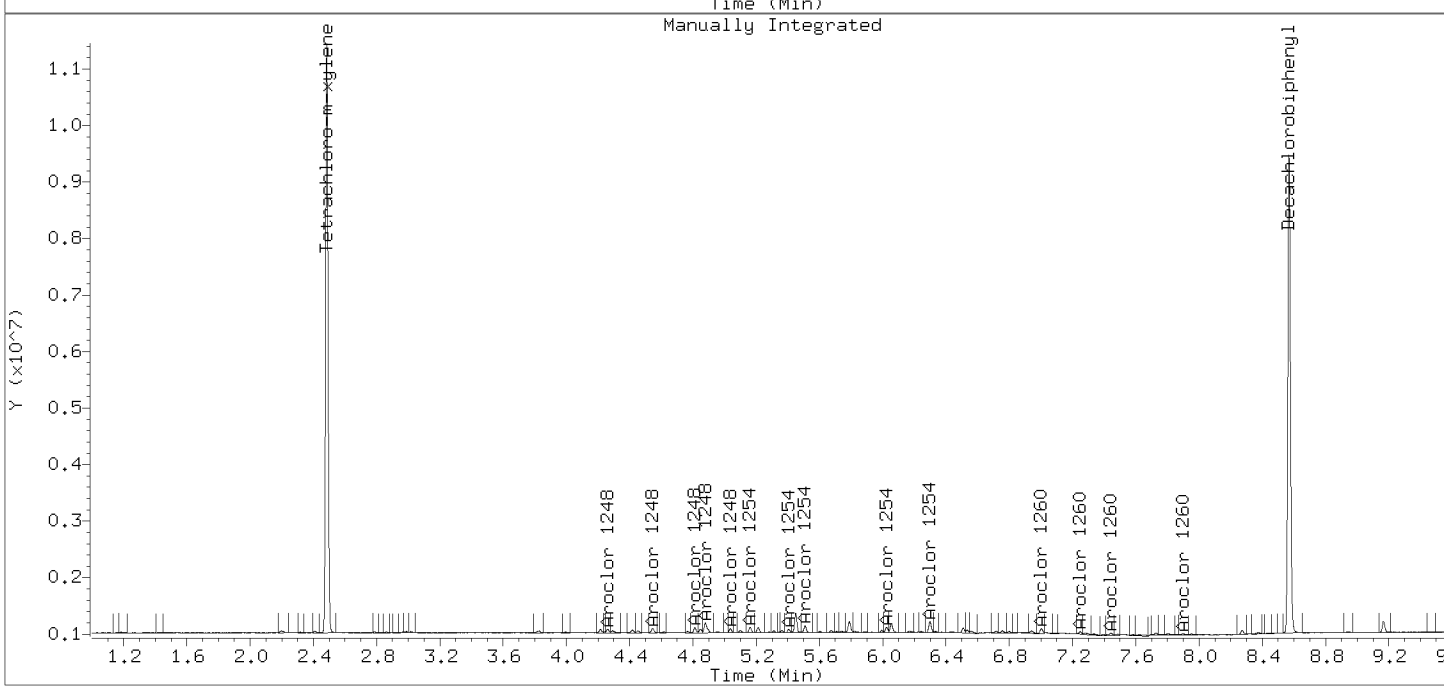
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218009.D
Date : 22-MAR-2018 14:30
Client ID: FD1-170613-01-YP-20
Sample Info: 40151612001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 14:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612001





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	75234	71178	CO
Aroclor 1248	75234	71178	CO
Aroclor 1248	75234	71178	CO
Aroclor 1248	75234	71178	CO
Aroclor 1248	75234	71178	CO
Aroclor 1254	101649	110630	BA
Aroclor 1254	101649	110630	BA
Aroclor 1254	101649	110630	BA
Aroclor 1254	101649	110630	BA
Aroclor 1254	101649	110630	BA
Aroclor 1260	224602	0	BA
Aroclor 1260	224602	0	BA
Aroclor 1260	224602	0	BA
Aroclor 1260	224602	0	BA
Aroclor 1260	224602	0	BA
Tetrachloro-m-xylene	10909439	10909439	
Decachlorobiphenyl	9667957	9667957	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612002
Date Analyzed: 03/22/2018 14:45
Lab File ID: 032218.B\032218010.D
Initial wt/vol: 10.0024 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	J
11097-69-1	PCB-1254 (Aroclor 1254)	13.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	25.1	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218010.D
Lab Smp Id: 40151612002 Client Smp ID: FD1-170613-01-YP-19
Inj Date : 22-MAR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612002,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.158	50801	40625	0.800	0.18		
1.428	11839	9986	0.843	0.04		
1.676	12018	7989	0.665	0.04		
1.954	13541	8850	0.654	0.05		
2.197	65057	43618	0.670	0.24		
2.317	11382	10710	0.941	0.04		
2.410	112973	109708	0.971	0.41		
2.484	11362945	10885672	0.958	42.68	$ 2 Tetrachloro-m-xylene	
2.785	20561	16827	0.818	0.07		
2.864	30911	16116	0.521	0.11		
2.920	11434	8448	0.739	0.04		
2.990	125866	71192	0.566	0.46		
3.020	50384	53497	1.062	0.18		
3.321	12801	13302	1.039	0.04	5 Aroclor 1016	BA
3.342	9276	9103	0.981	0.03		
3.826	78430	51039	0.651	0.29	5 Aroclor 1016	BA
3.995	19189	17152	0.894	0.07	5 Aroclor 1016	BA
4.055	21214	11660	0.550	0.07		
4.215	62023	49992	0.806	0.23		
4.261	54001	49510	0.917	0.20	6 Aroclor 1248	CO
4.291	43731	30267	0.692	0.16		
4.417	46988	38025	0.809	0.17		
4.450	29695	20762	0.699	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.547	68859	51889	0.754	0.25	6 Aroclor 1248
4.615	13958	12304	0.882	0.05	
4.738	14608	9839	0.674	0.05	
4.763	16560	14266	0.861	0.06	
4.813	58378	50418	0.864	0.21	6 Aroclor 1248
4.847	63412	57354	0.904	0.23	
4.880	158712	91941	0.579	0.58	6 Aroclor 1248
4.958	29527	18337	0.621	0.10	
5.036	51233	49533	0.967	0.19	6 Aroclor 1248
5.059	14712	14669	0.997	0.05	
5.100	67815	53046	0.782	0.25	
5.162	116987	104789	0.896	0.43	7 Aroclor 1254
5.213	129980	109834	0.845	0.48	
5.283	15332	13942	0.909	0.05	
5.311	69709	64666	0.928	0.25	
5.362	36081	32624	0.904	0.13	
5.405	63896	56948	0.891	0.23	7 Aroclor 1254
5.451	579017	568372	0.982	2.15	
5.507	159539	133663	0.838	0.59	7 Aroclor 1254
5.601	25476	19353	0.760	0.09	
5.675	69837	60351	0.864	0.25	
5.709	41578	32566	0.783	0.15	
5.739	39510	30294	0.767	0.14	
5.789	298280	246829	0.828	1.10	
5.820	72522	60557	0.835	0.26	
5.888	44419	30475	0.686	0.16	
5.993	59688	54946	0.921	0.22	
6.025	131612	118207	0.898	0.48	7 Aroclor 1254
6.055	249379	213152	0.855	0.92	
6.168	75425	40817	0.541	0.28	
6.245	55600	28655	0.515	0.20	
6.299	337801	283871	0.840	1.25	7 Aroclor 1254
6.332	28702	33785	1.177	0.10	
6.433	41520	23120	0.557	0.15	
6.507	122363	105030	0.858	0.45	
6.536	72632	69299	0.954	0.26	
6.559	57921	40942	0.707	0.21	
6.617	11497	9129	0.794	0.04	
6.663	21906	15078	0.688	0.08	
6.716	70625	54810	0.776	0.26	
6.756	79369	59400	0.748	0.29	
6.800	66556	46926	0.705	0.24	
6.838	52902	24443	0.462	0.19	
6.941	87616	64684	0.738	0.32	
7.003	117250	96144	0.820	0.43	8 Aroclor 1260
7.024	10647	16777	1.576	0.03	
7.099	22432	16104	0.718	0.08	
7.247	72017	59037	0.820	0.26	8 Aroclor 1260
7.279	65730	36235	0.551	0.24	
7.341	44395	24612	0.554	0.16	
7.390	32468	28463	0.877	0.12	
7.443	73072	42814	0.586	0.27	8 Aroclor 1260
7.484	39283	24685	0.628	0.14	
7.577	21727	16472	0.758	0.08	
7.613	18969	12370	0.652	0.07	
7.695	17095	17738	1.038	0.06	
7.726	56455	38385	0.680	0.20	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.762	33856	20107	0.594	0.12	
7.802	53876	22378	0.415	0.20	
7.896	33096	21822	0.659	0.12	8 Aroclor 1260
7.955	29173	15663	0.537	0.10	
8.050	16923	12755	0.754	0.06	
8.274	80421	71129	0.884	0.29	
8.375	29926	21729	0.726	0.11	
8.446	12654	12013	0.949	0.04	
8.569	9703662	8333453	0.859	36.07	$ 12 Decachlorobiphenyl
9.167	101690	93205	0.917	0.37	
9.962	14471	10106	0.698	0.05	
	26901398	23913399		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218010.D
Lab Smp Id: 40151612002 Client Smp ID: FD1-170613-01-YP-19
Inj Date : 22-MAR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612002,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.002	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	11362944	0.09216	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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	54000	0.02305	12	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	68858	0.01659	8.3	0.00- 20.00	127.51	CO
4.812	4.812	0.000	58377	0.02876	14	0.00- 20.00	108.11	CO
4.879	4.879	0.000	158712	0.03151	16	0.00- 20.00	293.91	CO
5.035	5.038	-0.003	51232	0.01428	7.1	0.00- 20.00	94.87	CO
Average of Peak Concentrations =					11			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	116987	0.02235	11	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	63896	0.01486	7.4	0.00- 20.00	54.62	CO
5.506	5.510	-0.004	159538	0.02054	10	0.00- 20.00	136.37	CO
6.024	6.027	-0.003	131611	0.02703	14	0.00- 20.00	112.50	CO
6.298	6.299	-0.001	337800	0.05191	26	0.00- 20.00	288.75	CO
Average of Peak Concentrations =					14			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9703661	0.08857	44			

QC Flag Legend

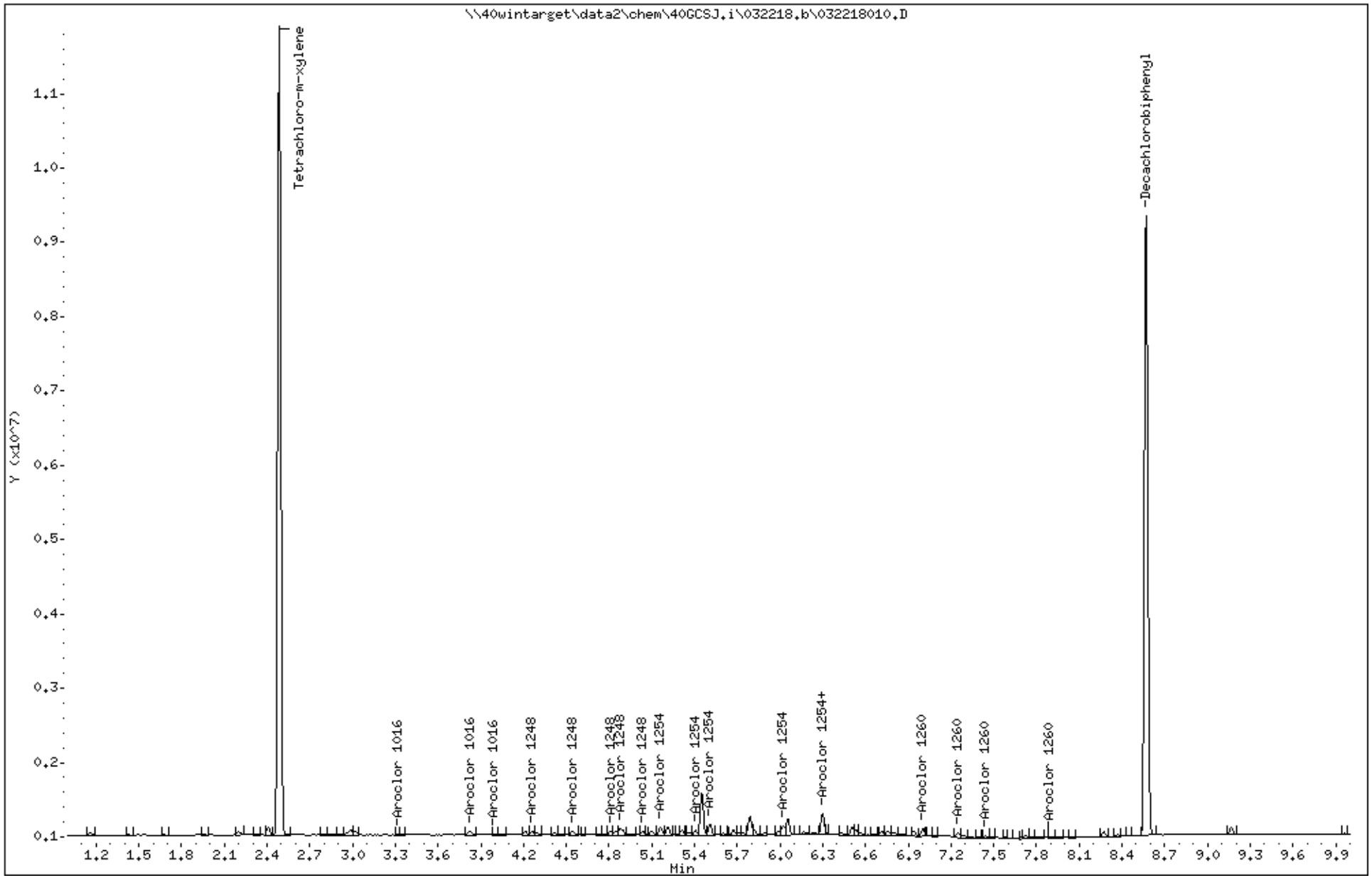
M - Compound response manually integrated.

Review Codes Legend

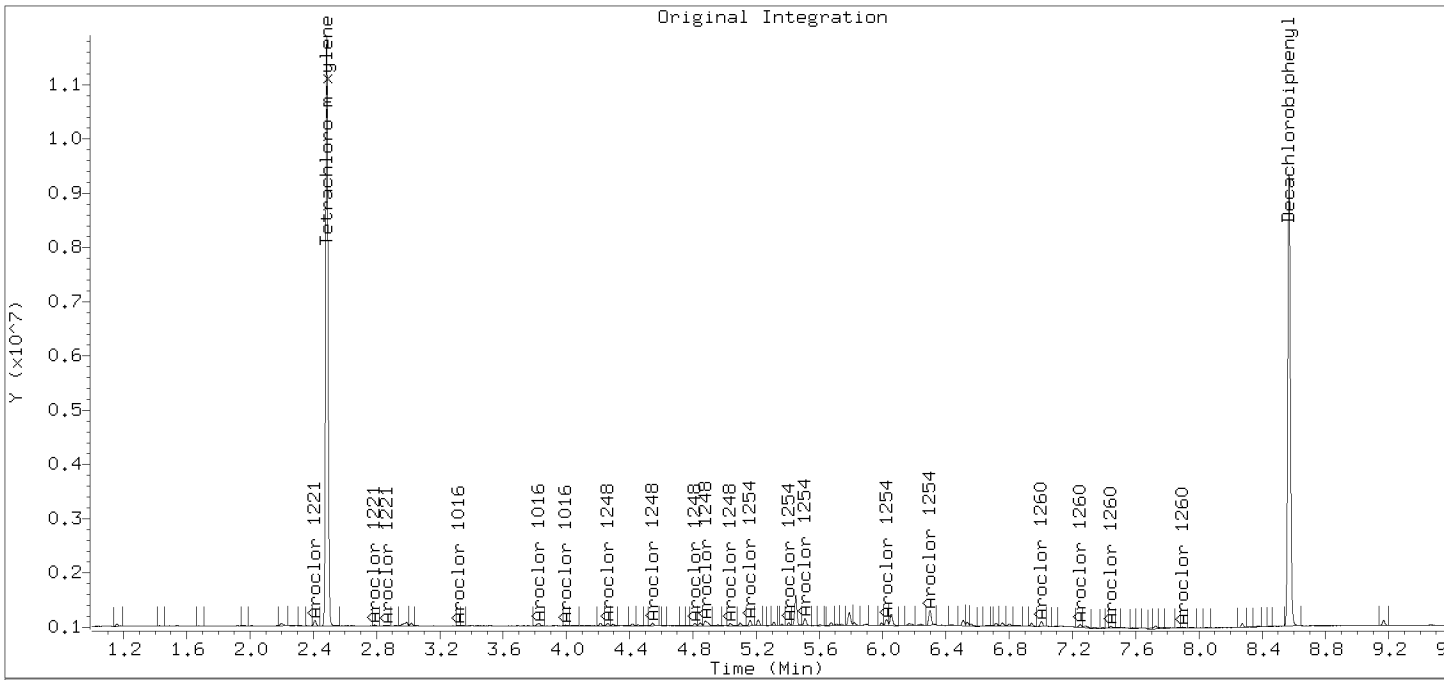
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

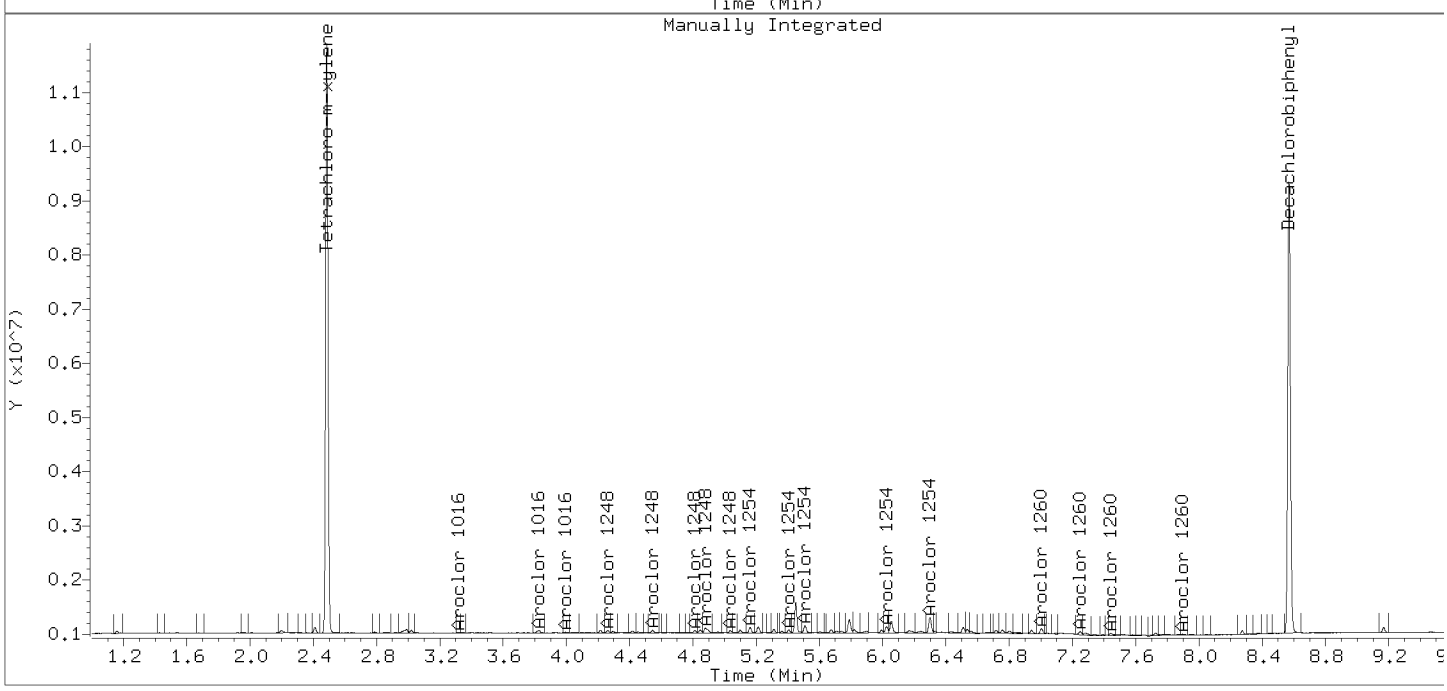
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218010.D
Date : 22-MAR-2018 14:45
Client ID: FD1-170613-01-YP-19
Sample Info: 40151612002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 14:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	12800	0	BA
Aroclor 1016	12800	0	BA
Aroclor 1016	12800	0	BA
Aroclor 1016	12800	0	BA
Aroclor 1016	12800	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	48482	54000	CO
Aroclor 1248	48482	54000	CO
Aroclor 1248	48482	54000	CO
Aroclor 1248	48482	54000	CO
Aroclor 1248	48482	54000	CO
Aroclor 1254	109226	116987	CO
Aroclor 1254	109226	116987	CO
Aroclor 1254	109226	116987	CO
Aroclor 1254	109226	116987	CO
Aroclor 1254	109226	116987	CO
Aroclor 1260	327466	0	CO
Aroclor 1260	327466	0	CO
Aroclor 1260	327466	0	CO
Aroclor 1260	327466	0	CO
Aroclor 1260	327466	0	CO
Tetrachloro-m-xylene	11362944	11362944	
Decachlorobiphenyl	9703661	9703661	

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SAMPLE NO.

FD1-170613-01-YP-18

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612003
Date Analyzed: 03/22/2018 15:01
Lab File ID: 032218.B\032218011.D
Initial wt/vol: 9.9979 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)	16.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	23.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	12.2	J
1336-36-3	PCB, Total	52.5	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218011.D
Lab Smp Id: 40151612003 Client Smp ID: FD1-170613-01-YP-18
Inj Date : 22-MAR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612003,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
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	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.027	12481	7284	0.584	0.04		
1.158	49649	38166	0.769	0.16		
1.428	17571	11675	0.664	0.05		
1.951	12151	9678	0.796	0.04		
2.012	14087	11694	0.830	0.04		
2.197	60247	42693	0.709	0.20		
2.295	9504	9602	1.010	0.03		
2.319	14548	14379	0.988	0.04		
2.410	122291	119355	0.976	0.40		
2.484	11221770	10886565	0.970	37.90	$ 2 Tetrachloro-m-xylene	
2.788	21523	18382	0.854	0.07		
2.860	26886	19725	0.734	0.08		
2.967	28823	32250	1.119	0.09		
2.990	85540	67328	0.787	0.28		
3.018	49588	46903	0.946	0.16		
3.402	13143	10779	0.820	0.04		
3.517	9933	7942	0.800	0.03	5 Aroclor 1016	BA
3.692	13576	12392	0.913	0.04		
3.827	83260	55427	0.666	0.27	5 Aroclor 1016	BA
3.996	20863	16787	0.805	0.06	5 Aroclor 1016	BA
4.214	84564	70872	0.838	0.28		
4.261	79647	71906	0.903	0.26	6 Aroclor 1248	CO
4.293	62061	46783	0.754	0.20		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	54877	49425	0.901	0.18	
4.453	39779	30631	0.770	0.13	
4.546	85558	67613	0.790	0.28	6 Aroclor 1248
4.766	24418	20865	0.854	0.08	
4.812	86655	80172	0.925	0.28	6 Aroclor 1248
4.846	83453	78021	0.935	0.27	
4.879	243209	152351	0.626	0.81	6 Aroclor 1248
4.956	31577	26310	0.833	0.10	
5.037	67414	59530	0.883	0.22	6 Aroclor 1248
5.056	15030	20468	1.362	0.05	
5.100	101977	81090	0.795	0.34	
5.161	207851	184315	0.887	0.69	7 Aroclor 1254
5.212	196453	175713	0.894	0.65	
5.280	24699	21204	0.859	0.08	
5.312	110185	105039	0.953	0.36	
5.362	68725	52662	0.766	0.22	
5.407	110023	98593	0.896	0.36	7 Aroclor 1254
5.450	1111289	1037776	0.934	3.70	
5.509	268220	235149	0.877	0.89	7 Aroclor 1254
5.576	14706	15552	1.058	0.04	
5.602	41799	31747	0.760	0.13	
5.674	116258	103088	0.887	0.38	
5.711	71629	49640	0.693	0.23	
5.740	66293	54500	0.822	0.22	
5.788	515358	411212	0.798	1.71	
5.822	107583	79014	0.734	0.35	
5.898	72609	45358	0.625	0.24	
5.930	23989	19626	0.818	0.07	
5.993	108349	98850	0.912	0.36	
6.024	228233	198366	0.869	0.76	7 Aroclor 1254
6.055	445163	390811	0.878	1.48	
6.168	125556	76410	0.609	0.41	
6.243	97601	50979	0.522	0.32	
6.298	597381	499492	0.836	1.99	7 Aroclor 1254
6.333	67588	60829	0.900	0.22	
6.371	24431	19801	0.810	0.08	
6.432	71150	42436	0.596	0.23	
6.508	215744	191469	0.887	0.71	
6.532	123166	111748	0.907	0.41	
6.558	89112	70844	0.795	0.29	
6.660	29334	22622	0.771	0.09	
6.718	107572	87147	0.810	0.35	
6.757	115156	92748	0.805	0.38	
6.801	98450	82320	0.836	0.32	
6.840	48346	28799	0.596	0.16	
6.940	110224	91219	0.828	0.36	
7.004	199174	177135	0.889	0.66	8 Aroclor 1260
7.031	28351	22924	0.809	0.09	
7.124	20683	10907	0.527	0.06	
7.250	125471	103427	0.824	0.41	8 Aroclor 1260
7.281	79955	50698	0.634	0.26	
7.338	35164	23061	0.656	0.11	
7.389	48822	46546	0.953	0.16	
7.441	100563	65418	0.651	0.33	8 Aroclor 1260
7.484	33583	22856	0.681	0.11	
7.579	14405	13457	0.934	0.04	
7.662	18794	18315	0.975	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.694	27508	24290	0.883	0.09	
7.726	48654	39587	0.814	0.16	
7.763	33644	23094	0.686	0.11	
7.806	47463	25830	0.544	0.15	
7.865	10422	10516	1.009	0.03	
7.895	45662	32242	0.706	0.15	8 Aroclor 1260
7.955	30591	23194	0.758	0.10	
8.048	27314	19146	0.701	0.09	
8.138	11126	6671	0.600	0.03	
8.272	90428	81715	0.904	0.30	
8.311	11380	7689	0.676	0.03	
8.376	54338	31666	0.583	0.18	
8.438	12249	12702	1.037	0.04	
8.446	22478	22332	0.994	0.07	
8.480	19173	14802	0.772	0.06	
8.570	9736702	8299012	0.852	32.46	$ 12 Decachlorobiphenyl
8.638	15523	15360	0.989	0.05	
8.719	10420	10739	1.031	0.03	
9.167	240455	205551	0.855	0.80	
9.958	12382	8075	0.652	0.04	
	29990758	26701078		100.000	

Total unknown % area = 21

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218011.D
Lab Smp Id: 40151612003 Client Smp ID: FD1-170613-01-YP-18
Inj Date : 22-MAR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612003,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
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	9.998	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	11221770	0.09102	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			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	79647	0.03399	17	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	85557	0.02061	10	0.00- 20.00	107.42	CO
4.812	4.812	0.000	86655	0.04269	21	0.00- 20.00	108.80	CO
4.878	4.879	-0.001	243209	0.04828	24	0.00- 20.00	305.36	CO
5.037	5.038	-0.001	67413	0.01879	9.4	0.00- 20.00	84.64	CO
Average of Peak Concentrations =					16			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	207851	0.03970	20	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	110023	0.02558	13	0.00- 20.00	52.93	BA
5.508	5.510	-0.002	268220	0.03454	17	0.00- 20.00	129.04	BA
6.024	6.027	-0.003	228232	0.04687	23	0.00- 20.00	109.81	BA
6.298	6.299	-0.001	597381	0.09180	46	0.00- 20.00	287.41	BA
Average of Peak Concentrations =					24			
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	199173	0.01989	9.9	0.00- 20.00	33.34	BA
7.250	7.251	-0.001	125471	0.02625	13	0.00- 20.00	21.00	BA
7.440	7.443	-0.003	100562	0.03450	17	0.00- 20.00	16.83	BA
7.895	7.901	-0.006	45661	0.01730	8.6	0.00- 20.00	7.64	BA
Average of Peak Concentrations =					12			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9736702	0.08887	44			

QC Flag Legend

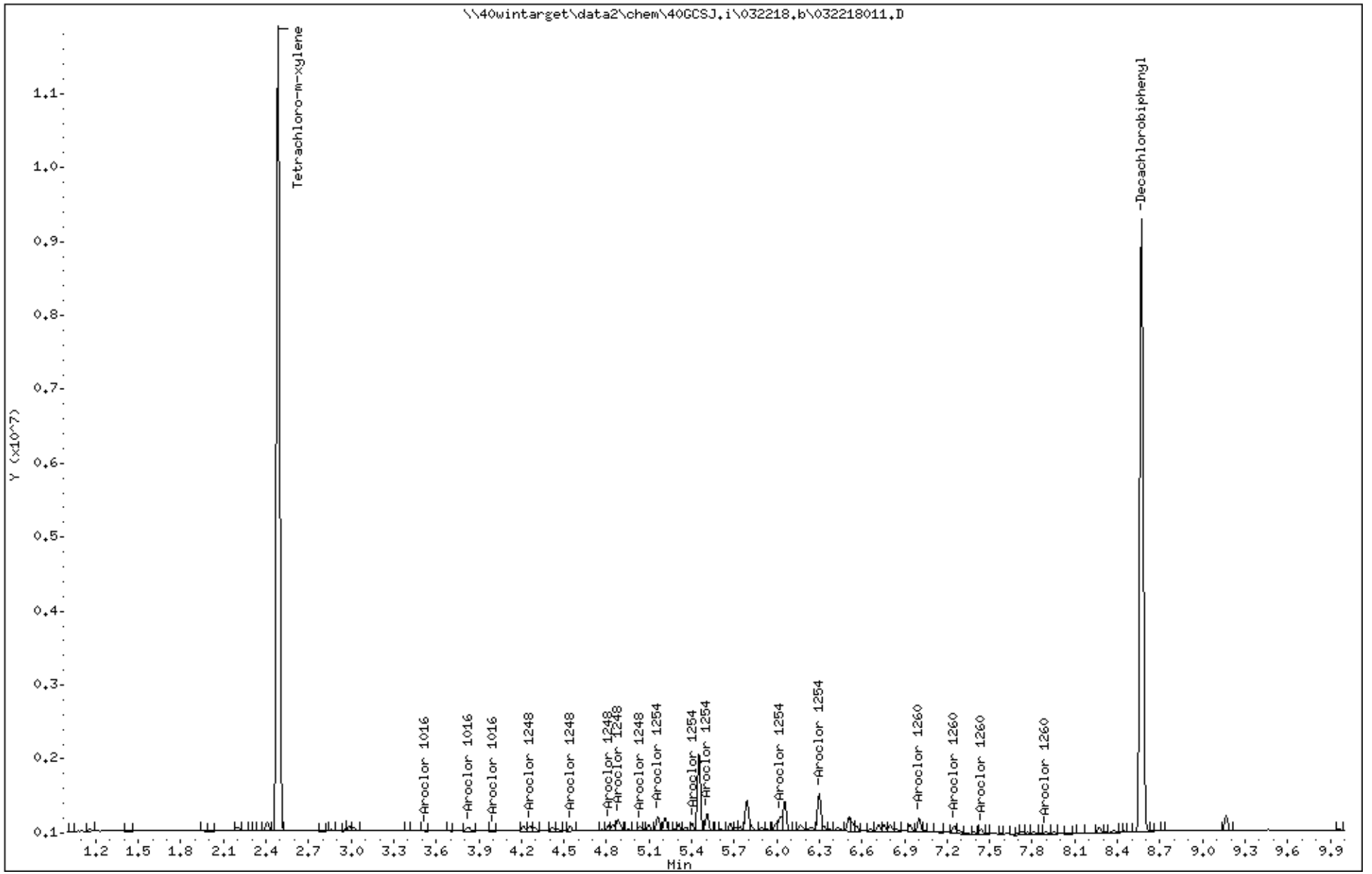
M - Compound response manually integrated.

Review Codes Legend

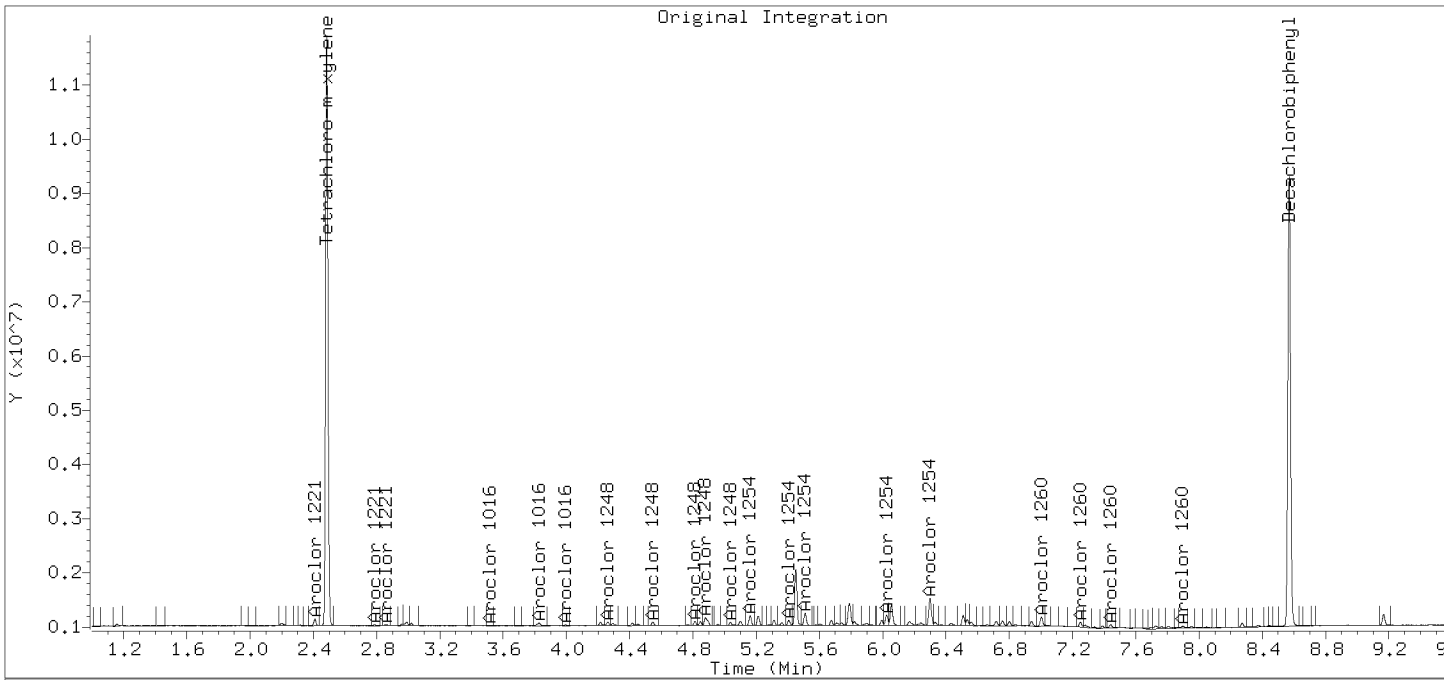
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

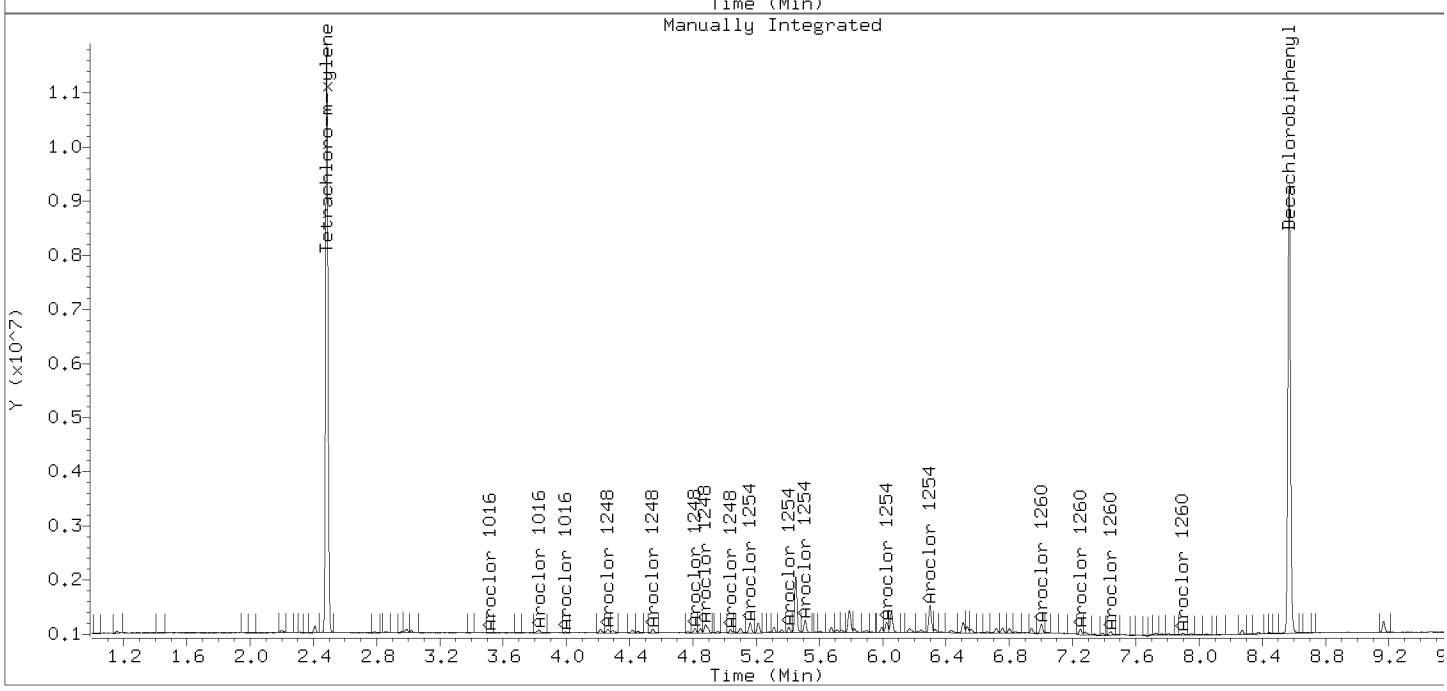
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218011.D
Date : 22-MAR-2018 15:01
Client ID: FD1-170613-01-YP-18
Sample Info: 40151612003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 15:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612003





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	73980	79647	CO
Aroclor 1248	73980	79647	CO
Aroclor 1248	73980	79647	CO
Aroclor 1248	73980	79647	CO
Aroclor 1248	73980	79647	CO
Aroclor 1254	200215	207851	BA
Aroclor 1254	200215	207851	BA
Aroclor 1254	200215	207851	BA
Aroclor 1254	200215	207851	BA
Aroclor 1254	200215	207851	BA
Aroclor 1260	592679	0	BA
Aroclor 1260	592679	0	BA
Aroclor 1260	592679	0	BA
Aroclor 1260	592679	0	BA
Aroclor 1260	592679	0	BA
Tetrachloro-m-xylene	11221770	11221770	
Decachlorobiphenyl	9736702	9736702	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612004
Date Analyzed: 03/22/2018 15:17
Lab File ID: 032218.B\032218012.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)	<11.4	U
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218012.D
Lab Smp Id: 40151612004 Client Smp ID: FD1-170613-01-YP-17
Inj Date : 22-MAR-2018 15:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612004,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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
1.039	14703	9791	0.666	0.05		
1.155	22914	17570	0.767	0.09		
1.427	12006	10887	0.907	0.04		
1.539	16807	10920	0.650	0.06		
1.951	10371	7678	0.740	0.04		
2.178	10076	11381	1.129	0.04		
2.197	73613	43813	0.595	0.29		
2.292	9401	12123	1.290	0.03		
2.315	17355	14349	0.827	0.06		
2.410	46503	38205	0.822	0.18		
2.484	10627772	10206967	0.960	43.23	$ 2 Tetrachloro-m-xylene	
2.788	19059	16381	0.860	0.07		
2.969	26295	28438	1.082	0.10		
2.988	60589	43245	0.714	0.24		
3.018	45423	45669	1.005	0.18		
3.826	54118	33500	0.619	0.21		
3.994	11805	12067	1.022	0.04		
4.215	39822	33757	0.848	0.16		
4.262	39590	36797	0.929	0.15	6 Aroclor 1248	CO
4.293	36592	22429	0.613	0.14		
4.417	28379	24957	0.879	0.11		
4.452	21608	15581	0.721	0.08		
4.547	45601	37149	0.815	0.18	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.765	30669	28185	0.919	0.12	
4.810	46952	38325	0.816	0.18	6 Aroclor 1248
4.848	46525	43122	0.927	0.18	
4.879	116489	68560	0.589	0.46	6 Aroclor 1248
5.036	37710	35013	0.928	0.15	6 Aroclor 1248
5.059	10494	11171	1.065	0.04	
5.101	51812	38719	0.747	0.20	
5.162	84895	74395	0.876	0.34	7 Aroclor 1254
5.215	91332	80534	0.882	0.36	
5.313	45202	43439	0.961	0.18	
5.363	42291	26091	0.617	0.17	
5.406	50291	43848	0.872	0.20	7 Aroclor 1254
5.452	397865	363684	0.914	1.60	
5.508	122178	105536	0.864	0.49	7 Aroclor 1254
5.604	20279	15495	0.764	0.08	
5.675	49462	43790	0.885	0.19	
5.712	29212	22628	0.775	0.11	
5.739	34684	24767	0.714	0.13	
5.789	213682	177858	0.832	0.85	
5.821	82426	49947	0.606	0.33	
5.897	27429	23390	0.853	0.11	
5.930	12190	12213	1.002	0.04	
5.991	45206	42314	0.936	0.18	
6.025	96975	83008	0.856	0.39	7 Aroclor 1254
6.054	168795	145693	0.863	0.67	
6.168	33212	30321	0.913	0.13	
6.183	35853	28639	0.799	0.14	
6.244	32625	24405	0.748	0.13	
6.299	256206	212593	0.830	1.03	7 Aroclor 1254
6.334	23892	25829	1.081	0.09	
6.429	27285	19792	0.725	0.10	
6.508	88324	82117	0.930	0.35	
6.536	57785	50187	0.869	0.23	
6.559	57932	34547	0.596	0.23	
6.621	15028	11694	0.778	0.06	
6.659	19138	13806	0.721	0.07	
6.687	10771	10081	0.936	0.04	
6.718	56714	43086	0.760	0.22	
6.758	68817	50419	0.733	0.27	
6.799	60507	39878	0.659	0.24	
6.840	56703	21838	0.385	0.22	
6.907	15356	13136	0.855	0.06	
6.941	87016	60821	0.699	0.35	
7.004	102721	85210	0.830	0.41	8 Aroclor 1260
7.033	19521	18114	0.928	0.07	
7.094	14558	15956	1.096	0.05	
7.121	19905	16019	0.805	0.08	
7.249	58800	49819	0.847	0.23	8 Aroclor 1260
7.281	53664	31893	0.594	0.21	
7.335	32673	20110	0.615	0.13	
7.391	25845	25465	0.985	0.10	
7.442	53009	38603	0.728	0.21	8 Aroclor 1260
7.483	38224	18322	0.479	0.15	
7.579	14232	12471	0.876	0.05	
7.659	15521	12619	0.813	0.06	
7.691	14802	14721	0.995	0.05	
7.729	52668	35653	0.677	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.761	24566	18360	0.747	0.09	
7.796	29381	19645	0.669	0.11	
7.899	33701	21855	0.648	0.13	8 Aroclor 1260
7.951	28130	17694	0.629	0.11	
8.048	19882	13500	0.679	0.08	
8.272	81090	71152	0.877	0.32	
8.374	25344	22720	0.896	0.10	
8.447	14296	12252	0.857	0.05	
8.478	10178	9466	0.930	0.04	
8.569	9625414	8500848	0.883	38.73	$ 12 Decachlorobiphenyl
8.934	9683	6617	0.683	0.03	
9.166	181067	156717	0.866	0.72	
	24847486	22414369		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218012.D
Lab Smp Id: 40151612004 Client Smp ID: FD1-170613-01-YP-17
Inj Date : 22-MAR-2018 15:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612004,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	10627771	0.08620	43			
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).								

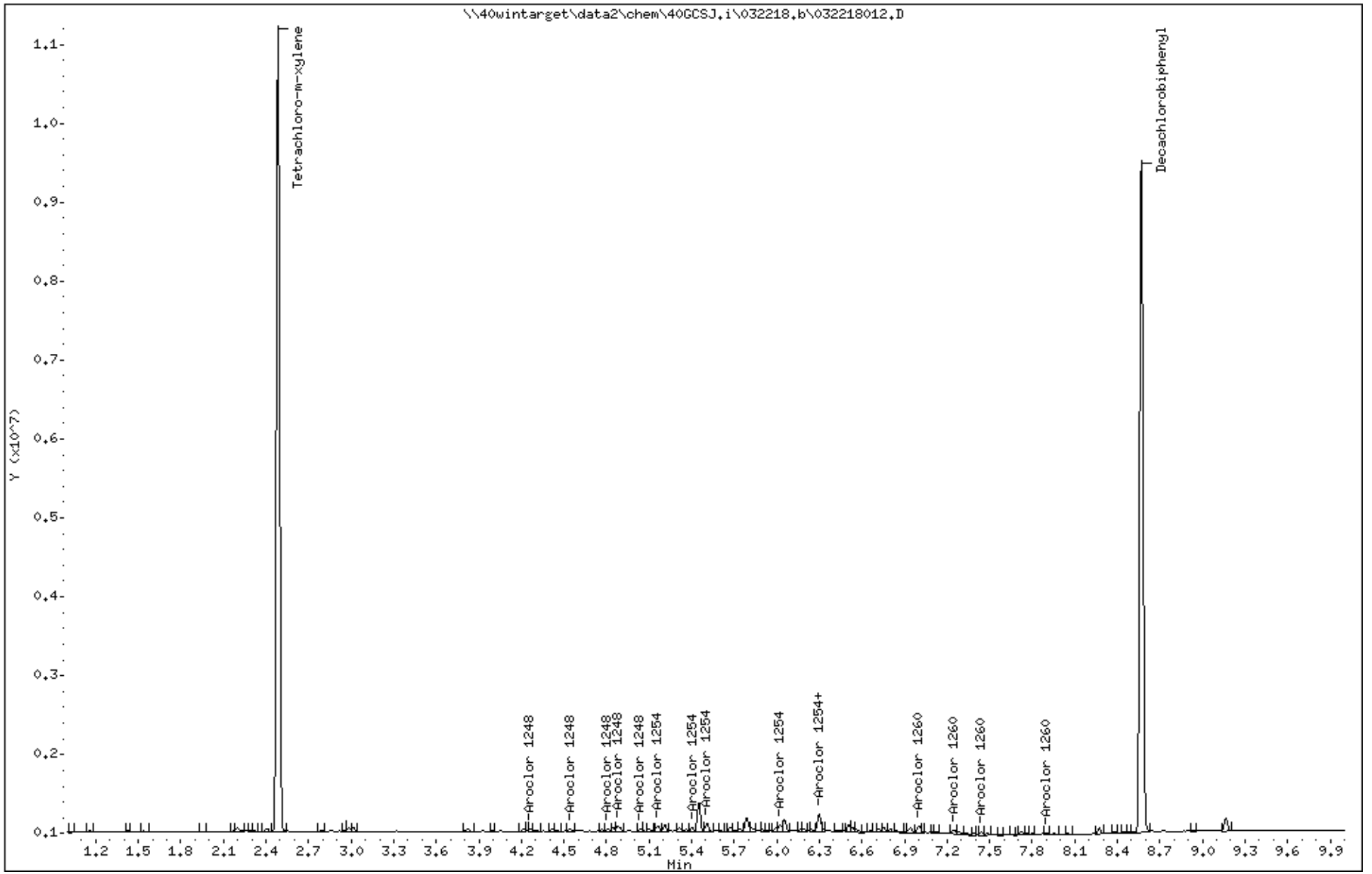
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								CO
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9625413	0.08786	44			

Review Codes Legend

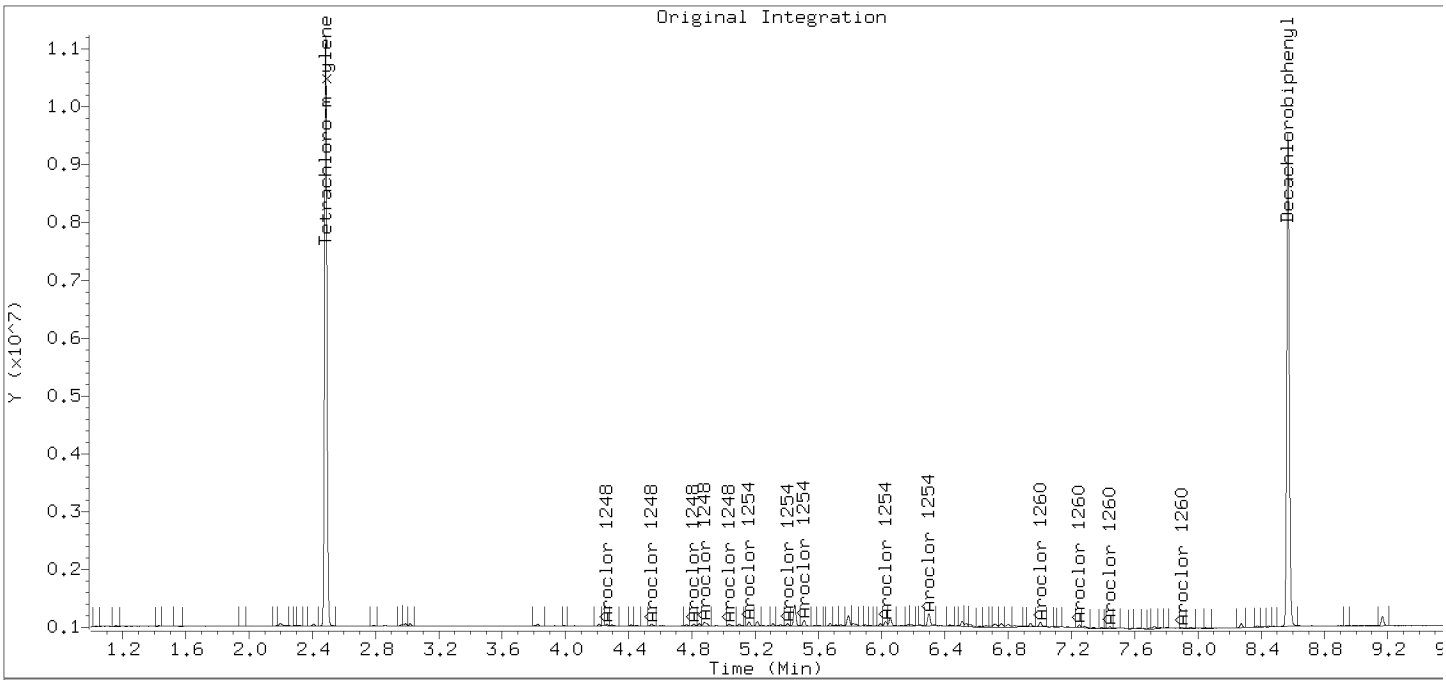
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

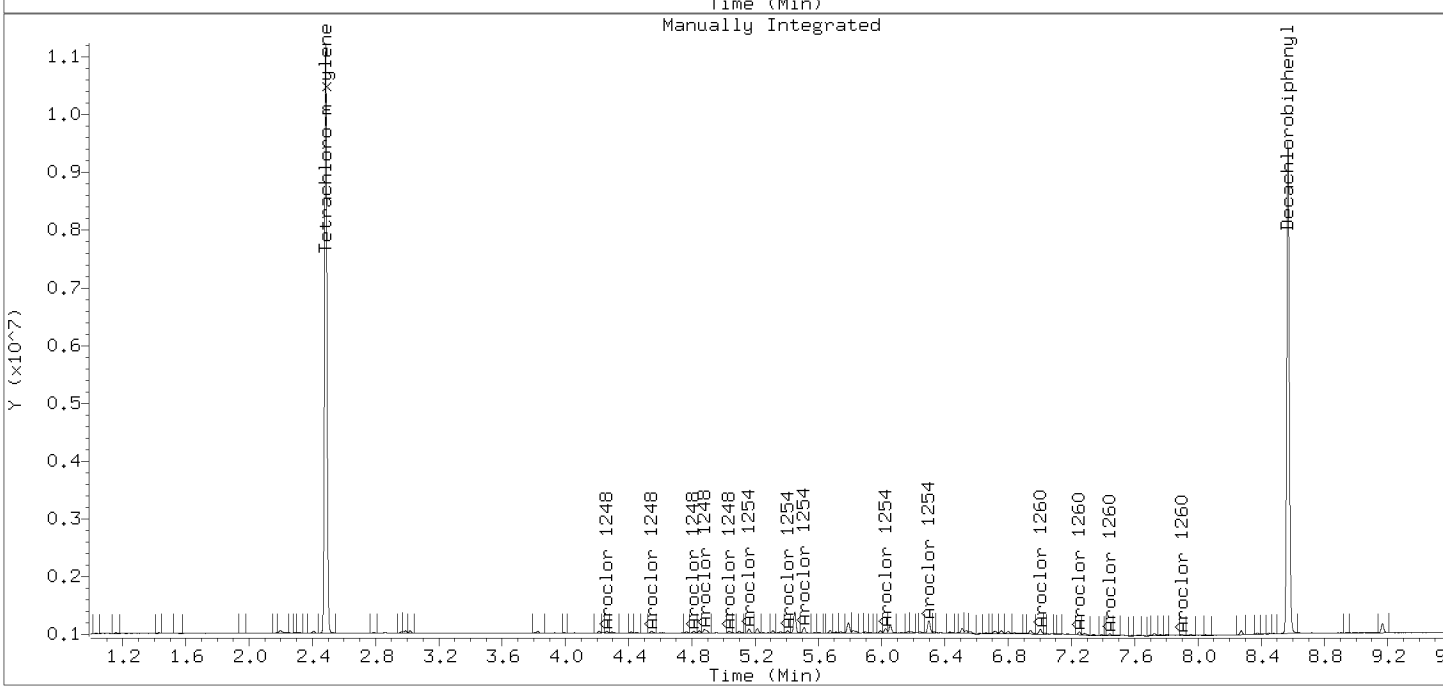
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218012.D
Date : 22-MAR-2018 15:17
Client ID: FD1-170613-01-YP-17
Sample Info: 40151612004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 15:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612004





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	25003	0	CO
Aroclor 1248	25003	0	CO
Aroclor 1248	25003	0	CO
Aroclor 1248	25003	0	CO
Aroclor 1248	25003	0	CO
Aroclor 1254	79366	0	CO
Aroclor 1254	79366	0	CO
Aroclor 1254	79366	0	CO
Aroclor 1254	79366	0	CO
Aroclor 1254	79366	0	CO
Aroclor 1260	247426	0	CO
Aroclor 1260	247426	0	CO
Aroclor 1260	247426	0	CO
Aroclor 1260	247426	0	CO
Aroclor 1260	247426	0	CO
Tetrachloro-m-xylene	10627771	10627771	
Decachlorobiphenyl	9625413	9625413	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612005
Date Analyzed: 03/22/2018 15:33
Lab File ID: 032218.B\032218013.D
Initial wt/vol: 9.9907 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)	28.3	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.3	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	44.6	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218013.D
Lab Smp Id: 40151612005 Client Smp ID: FD1-170613-01-YP-16
Inj Date : 22-MAR-2018 15:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612005,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.154	13612	13854	1.018	0.05		
1.187	17993	13469	0.749	0.06		
1.424	15055	10705	0.711	0.05		
2.198	110588	52926	0.479	0.42		
2.293	12116	11838	0.977	0.04		
2.411	33308	27903	0.838	0.12		
2.485	9967566	9564025	0.960	38.95	$ 2 Tetrachloro-m-xylene	
2.788	16566	15110	0.912	0.06		
2.974	56165	25296	0.450	0.21		
3.021	37308	32376	0.868	0.14		
3.825	98796	69307	0.702	0.38	5 Aroclor 1016	BA
3.927	15206	11871	0.781	0.05	5 Aroclor 1016	BA
3.994	26269	22252	0.847	0.10	5 Aroclor 1016	BA
4.047	18652	13909	0.746	0.07		
4.215	93166	87090	0.935	0.35		
4.260	122464	106658	0.871	0.47	6 Aroclor 1248	BA
4.292	84417	63236	0.749	0.32		
4.418	83494	74635	0.894	0.32		
4.453	62448	52176	0.836	0.24		
4.546	143840	130643	0.908	0.55	6 Aroclor 1248	BA
4.618	23137	17695	0.765	0.08		
4.767	47878	46897	0.980	0.18		
4.813	150108	138665	0.924	0.57	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	124774	122317	0.980	0.48	
4.878	374964	283218	0.755	1.44	6 Aroclor 1248
4.957	34271	28591	0.834	0.13	
5.035	168560	149038	0.884	0.65	6 Aroclor 1248
5.099	87090	66904	0.768	0.33	
5.160	144206	127972	0.887	0.55	7 Aroclor 1254
5.211	157482	141017	0.895	0.60	
5.283	17597	16060	0.913	0.06	
5.311	52390	48900	0.933	0.20	
5.362	76704	56217	0.733	0.29	
5.406	100227	88467	0.883	0.38	7 Aroclor 1254
5.450	479780	440654	0.918	1.85	
5.508	212348	188542	0.888	0.81	7 Aroclor 1254
5.602	40481	33454	0.826	0.15	
5.674	58691	52977	0.903	0.22	
5.710	37183	29202	0.785	0.14	
5.739	53914	36634	0.679	0.20	
5.789	342463	285007	0.832	1.32	
5.822	72655	44243	0.609	0.28	
5.898	45658	25427	0.557	0.17	
5.991	48561	45125	0.929	0.18	
6.024	175124	152521	0.871	0.67	7 Aroclor 1254
6.055	199068	171183	0.860	0.76	
6.165	41882	35249	0.842	0.16	
6.241	42987	30289	0.705	0.16	
6.299	316981	271713	0.857	1.22	7 Aroclor 1254
6.331	32789	32325	0.986	0.12	
6.372	16615	14058	0.846	0.06	
6.429	34693	21434	0.618	0.13	
6.475	7060	7988	1.131	0.02	
6.509	99521	92119	0.926	0.38	
6.534	69345	65819	0.949	0.26	
6.558	53385	37076	0.695	0.20	
6.612	9358	7818	0.835	0.03	
6.657	19671	14829	0.754	0.07	
6.718	57932	46444	0.802	0.22	
6.757	71038	56340	0.793	0.27	
6.798	56239	44374	0.789	0.21	
6.840	25722	17646	0.686	0.09	
6.940	78355	63522	0.811	0.30	
7.004	97772	84817	0.867	0.37	8 Aroclor 1260
7.033	12085	14735	1.219	0.04	
7.123	14402	8819	0.612	0.05	
7.250	66199	57618	0.870	0.25	8 Aroclor 1260
7.282	48170	31955	0.663	0.18	
7.339	16428	12786	0.778	0.06	
7.389	27720	26893	0.970	0.10	
7.441	35458	31338	0.884	0.13	8 Aroclor 1260
7.484	23601	14750	0.625	0.09	
7.523	30095	15433	0.513	0.11	
7.573	11914	12043	1.011	0.04	
7.690	25126	20718	0.825	0.09	
7.728	40991	33022	0.806	0.15	
7.764	26513	19625	0.740	0.10	
7.800	37265	19772	0.531	0.14	
7.874	11866	12907	1.088	0.04	
7.900	38025	21673	0.570	0.14	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.953	29944	20360	0.680	0.11	
8.049	14769	13600	0.921	0.05	
8.273	81859	70869	0.866	0.31	
8.375	48682	34921	0.717	0.18	
8.449	20920	17847	0.853	0.08	
8.480	11000	12489	1.135	0.04	
8.570	9466217	8265236	0.873	36.54	$ 12 Decachlorobiphenyl
8.720	10758	10533	0.979	0.04	
8.940	13665	11204	0.820	0.05	
9.167	231949	205107	0.884	0.89	
9.463	13370	10699	0.800	0.05	
9.960	11111	12029	1.083	0.04	
	25905796	23219047		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218013.D
Lab Smp Id: 40151612005 Client Smp ID: FD1-170613-01-YP-16
Inj Date : 22-MAR-2018 15:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612005,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	9967565	0.08084	40			
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			
4.260	4.261	-0.001	122463	0.05227	26	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	143839	0.03466	17	0.00- 20.00	117.46	BA
4.813	4.812	0.001	150108	0.07394	37	0.00- 20.00	122.57	BA
4.878	4.879	-0.001	374964	0.07444	37	0.00- 20.00	306.19	BA
5.035	5.038	-0.003	168560	0.04697	24	0.00- 20.00	137.64	BA
Average of Peak Concentrations =					28			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	144206	0.02755	14	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	100227	0.02330	12	0.00- 20.00	69.50	BA
5.508	5.510	-0.002	212347	0.02734	14	0.00- 20.00	147.25	BA
6.024	6.027	-0.003	175124	0.03596	18	0.00- 20.00	121.44	BA
6.298	6.299	-0.001	316981	0.04871	24	0.00- 20.00	219.81	BA
Average of Peak Concentrations =					16			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9466217	0.08640	43			

QC Flag Legend

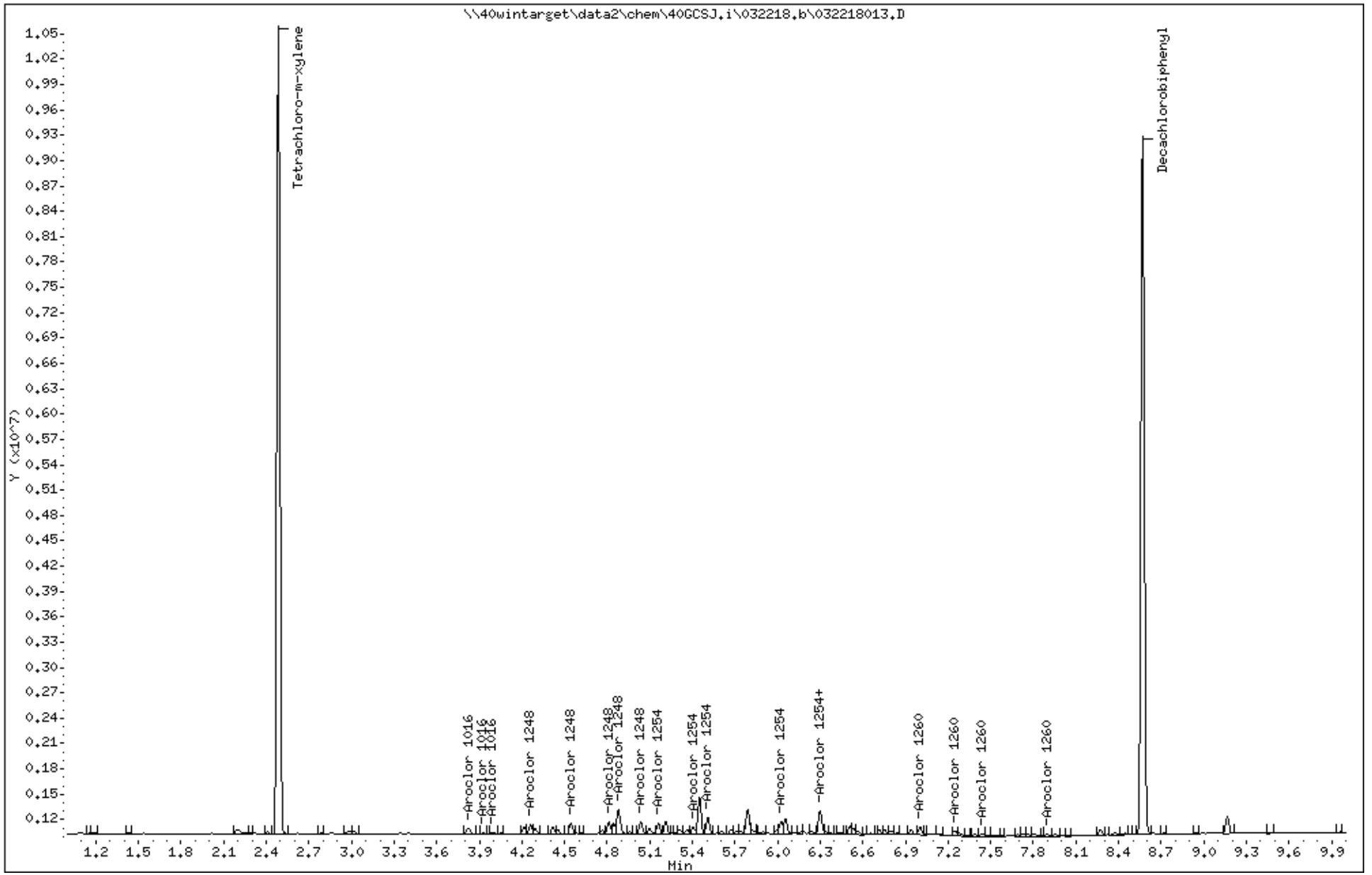
M - Compound response manually integrated.

Review Codes Legend

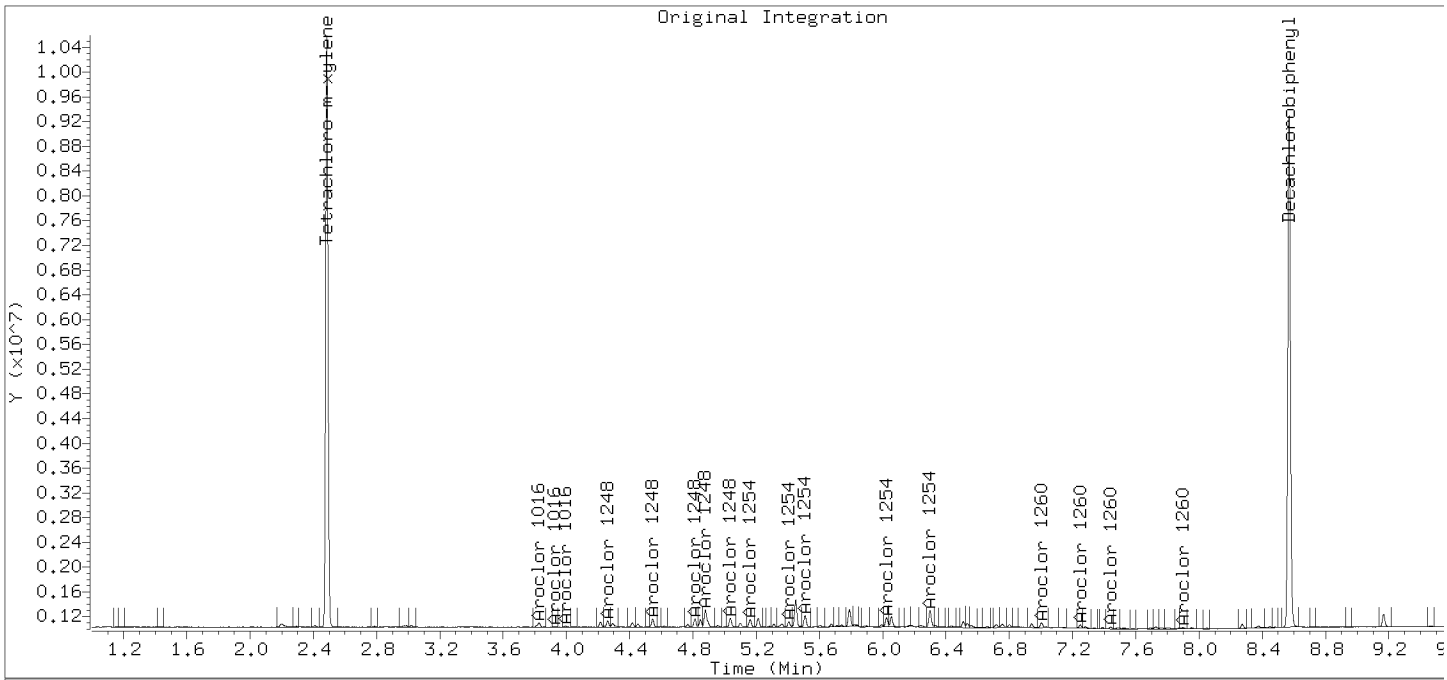
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

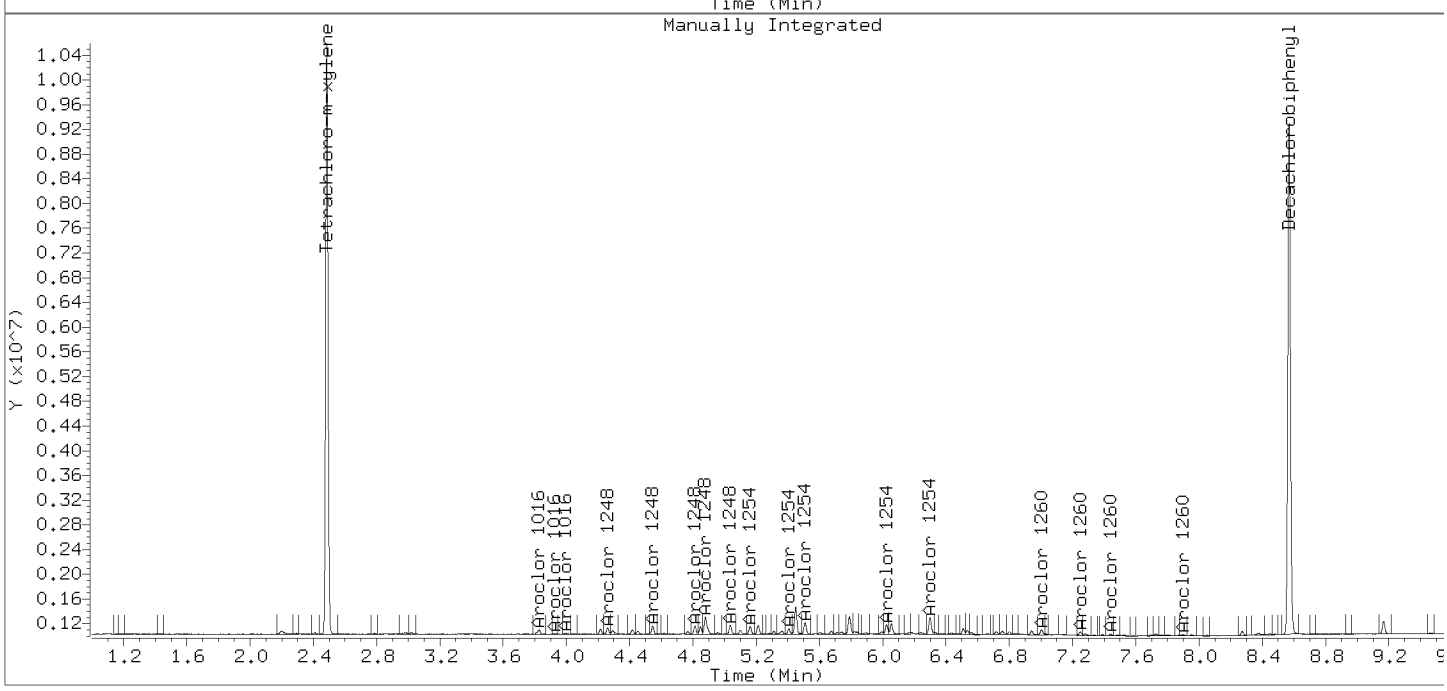
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218013.D
Date : 22-MAR-2018 15:33
Client ID: FD1-170613-01-YP-16
Sample Info: 40151612005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 15:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612005





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	118457	122463	BA
Aroclor 1248	118457	122463	BA
Aroclor 1248	118457	122463	BA
Aroclor 1248	118457	122463	BA
Aroclor 1248	118457	122463	BA
Aroclor 1254	137128	144206	BA
Aroclor 1254	137128	144206	BA
Aroclor 1254	137128	144206	BA
Aroclor 1254	137128	144206	BA
Aroclor 1254	137128	144206	BA
Aroclor 1260	318235	0	CO
Aroclor 1260	318235	0	CO
Aroclor 1260	318235	0	CO
Aroclor 1260	318235	0	CO
Aroclor 1260	318235	0	CO
Tetrachloro-m-xylene	9967565	9967565	
Decachlorobiphenyl	9466217	9466217	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612006
Date Analyzed: 03/22/2018 15:49
Lab File ID: 032218.B\032218014.D
Initial wt/vol: 9.983 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)	32.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.2	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	52.3	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218014.D
Lab Smp Id: 40151612006 Client Smp ID: FD1-170613-01-YP-15
Inj Date : 22-MAR-2018 15:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612006,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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
1.101	14916	9542	0.640	0.05		
1.153	14988	12168	0.812	0.05		
1.182	12447	9909	0.796	0.04		
2.198	85590	50488	0.590	0.31		
2.291	14594	12867	0.882	0.05		
2.409	38408	29135	0.759	0.13		
2.485	10193317	9748975	0.956	37.63	$ 2 Tetrachloro-m-xylene	
2.786	16921	17387	1.028	0.06		
2.861	22019	15518	0.705	0.08		
2.976	27447	23936	0.872	0.10		
2.988	30700	29600	0.964	0.11		
3.019	35172	32640	0.928	0.12		
3.339	11173	7168	0.642	0.04	5 Aroclor 1016	BA
3.404	14458	12769	0.883	0.05		
3.693	15368	12550	0.817	0.05		
3.827	98225	64546	0.657	0.35	5 Aroclor 1016	BA
3.929	14670	8269	0.564	0.05	5 Aroclor 1016	BA
3.993	29491	21512	0.729	0.10	5 Aroclor 1016	BA
4.057	21859	12975	0.594	0.07		
4.215	111644	98727	0.884	0.40		
4.261	131918	118386	0.897	0.48	6 Aroclor 1248	BA
4.292	91613	72015	0.786	0.33		
4.418	91008	85220	0.936	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	65091	59076	0.908	0.23	
4.544	151429	139100	0.919	0.55	6 Aroclor 1248
4.615	21771	20254	0.930	0.07	
4.768	53295	49389	0.927	0.19	
4.811	180230	172054	0.955	0.65	6 Aroclor 1248
4.846	137095	135160	0.986	0.49	
4.878	447237	345749	0.773	1.62	6 Aroclor 1248
4.956	43238	36446	0.843	0.15	
5.036	180884	163305	0.903	0.65	6 Aroclor 1248
5.100	97676	77829	0.797	0.35	
5.162	187584	171551	0.915	0.68	7 Aroclor 1254
5.212	179884	163247	0.908	0.65	
5.283	20039	18929	0.945	0.07	
5.311	67688	63915	0.944	0.24	
5.362	83385	71836	0.861	0.30	
5.406	127166	108645	0.854	0.46	7 Aroclor 1254
5.450	651751	638606	0.980	2.37	
5.509	267634	241094	0.901	0.97	7 Aroclor 1254
5.602	51386	43485	0.846	0.18	
5.673	69625	62585	0.899	0.25	
5.709	44289	34560	0.780	0.16	
5.739	55718	45322	0.813	0.20	
5.789	415987	343952	0.827	1.51	
5.821	89149	50583	0.567	0.32	
5.890	49845	28570	0.573	0.18	
5.930	17730	12945	0.730	0.06	
5.992	64354	56034	0.871	0.23	
6.024	220996	189673	0.858	0.80	7 Aroclor 1254
6.055	250932	216081	0.861	0.91	
6.118	10614	7968	0.751	0.03	
6.167	86343	47592	0.551	0.31	
6.243	61287	32255	0.526	0.22	
6.298	365297	308699	0.845	1.33	7 Aroclor 1254
6.334	40611	36059	0.888	0.14	
6.370	19141	14682	0.767	0.06	
6.432	38276	24933	0.651	0.13	
6.508	119179	115978	0.973	0.43	
6.534	82720	78386	0.948	0.30	
6.560	70860	48019	0.678	0.25	
6.624	14689	8785	0.598	0.05	
6.660	26234	17451	0.665	0.09	
6.718	72255	56645	0.784	0.26	
6.757	84754	60328	0.712	0.30	
6.801	70618	57317	0.812	0.25	
6.841	26156	23225	0.888	0.09	
6.940	80045	63644	0.795	0.29	
7.004	121193	108911	0.899	0.44	8 Aroclor 1260
7.032	16053	17358	1.081	0.05	
7.080	21625	13018	0.602	0.07	
7.123	35791	17670	0.494	0.13	
7.249	84407	68128	0.807	0.30	8 Aroclor 1260
7.280	59044	36122	0.612	0.21	
7.336	29618	18004	0.608	0.10	
7.388	31964	28532	0.893	0.11	
7.441	50111	41024	0.819	0.18	8 Aroclor 1260
7.487	30795	16909	0.549	0.11	
7.693	19840	18379	0.926	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.728	47809	36253	0.758	0.17	
7.763	22774	17659	0.775	0.08	
7.805	37239	19160	0.515	0.13	
7.868	9200	9565	1.040	0.03	
7.901	32643	23137	0.709	0.11	8 Aroclor 1260
7.954	28321	17901	0.632	0.10	
8.048	11578	11519	0.995	0.04	
8.146	12831	6570	0.512	0.04	
8.274	81639	76880	0.942	0.29	
8.317	10775	8666	0.804	0.03	
8.375	33406	28000	0.838	0.12	
8.447	16768	12318	0.735	0.06	
8.569	9623558	8373756	0.870	35.07	$ 12 Decachlorobiphenyl
8.936	18278	11736	0.642	0.06	
9.167	204543	179276	0.876	0.74	
9.463	20746	12353	0.595	0.07	
9.958	25930	16541	0.638	0.09	
	27438589	24513588		100.000	

Total unknown % area = 18

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218014.D
Lab Smp Id: 40151612006 Client Smp ID: FD1-170613-01-YP-15
Inj Date : 22-MAR-2018 15:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612006,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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		
2.484	2.484	0.000	10193317	0.08267	41			
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	131918	0.05630	28	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	151428	0.03649	18	0.00- 20.00	114.79	BA
4.811	4.812	-0.001	180229	0.08878	44	0.00- 20.00	136.62	BA
4.878	4.879	-0.001	447236	0.08878	44	0.00- 20.00	339.03	BA
5.036	5.038	-0.002	180883	0.05041	25	0.00- 20.00	137.12	BA
Average of Peak Concentrations =					32			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	187584	0.03583	18	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	127166	0.02957	15	0.00- 20.00	67.79	BA
5.508	5.510	-0.002	267634	0.03446	17	0.00- 20.00	142.67	BA
6.023	6.027	-0.004	220995	0.04538	23	0.00- 20.00	117.81	BA
6.297	6.299	-0.002	365296	0.05614	28	0.00- 20.00	194.74	BA
Average of Peak Concentrations =					20			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9623558	0.08784	44			

QC Flag Legend

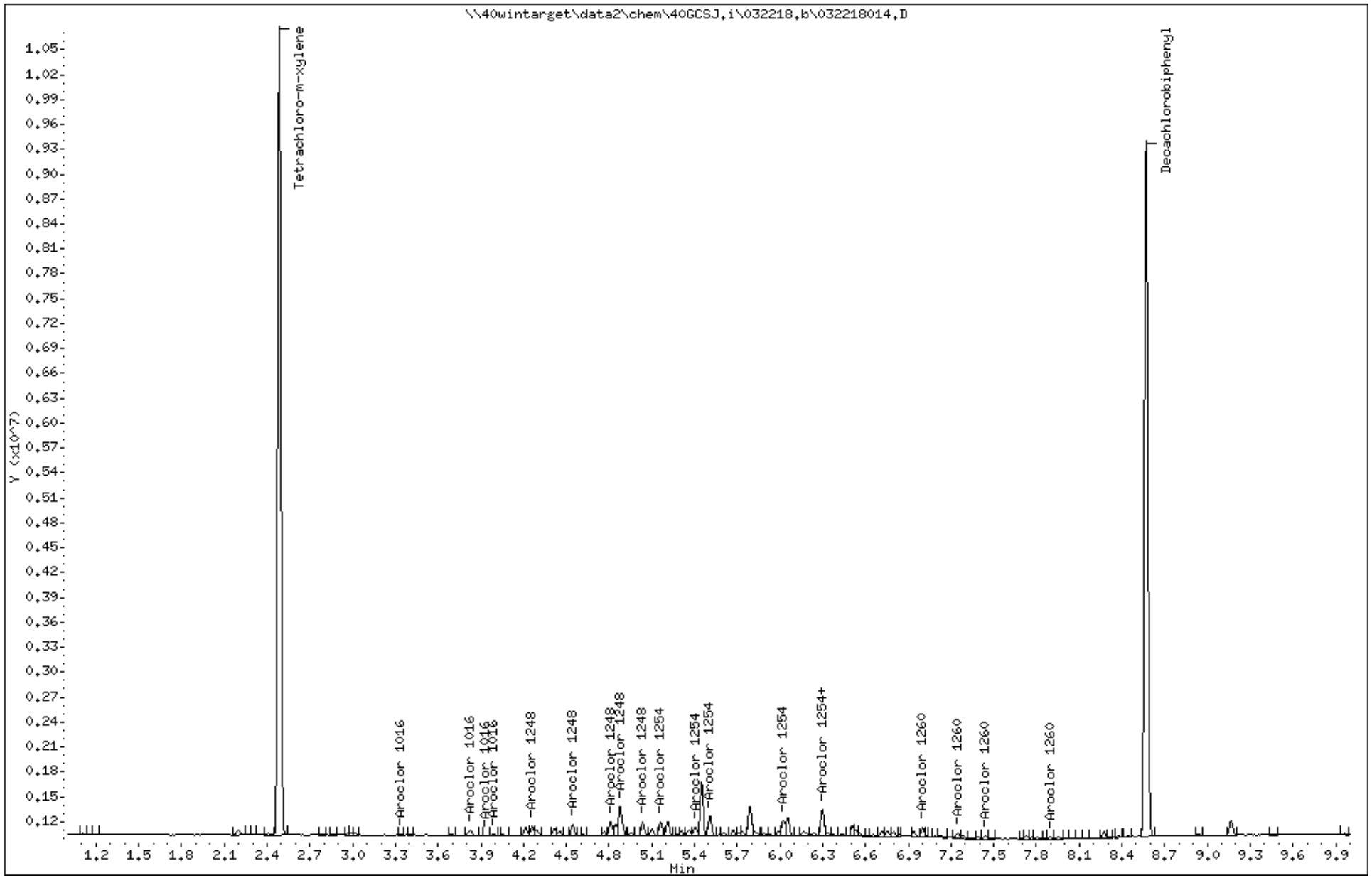
M - Compound response manually integrated.

Review Codes Legend

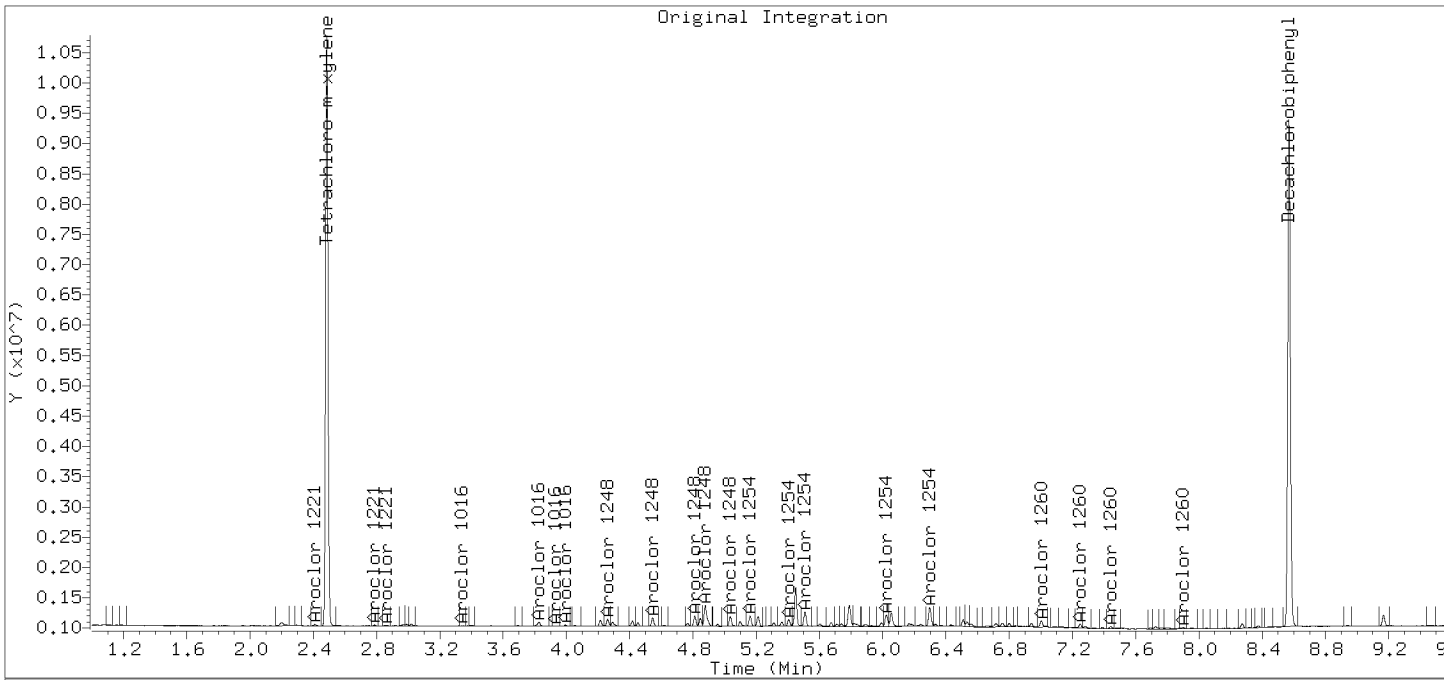
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

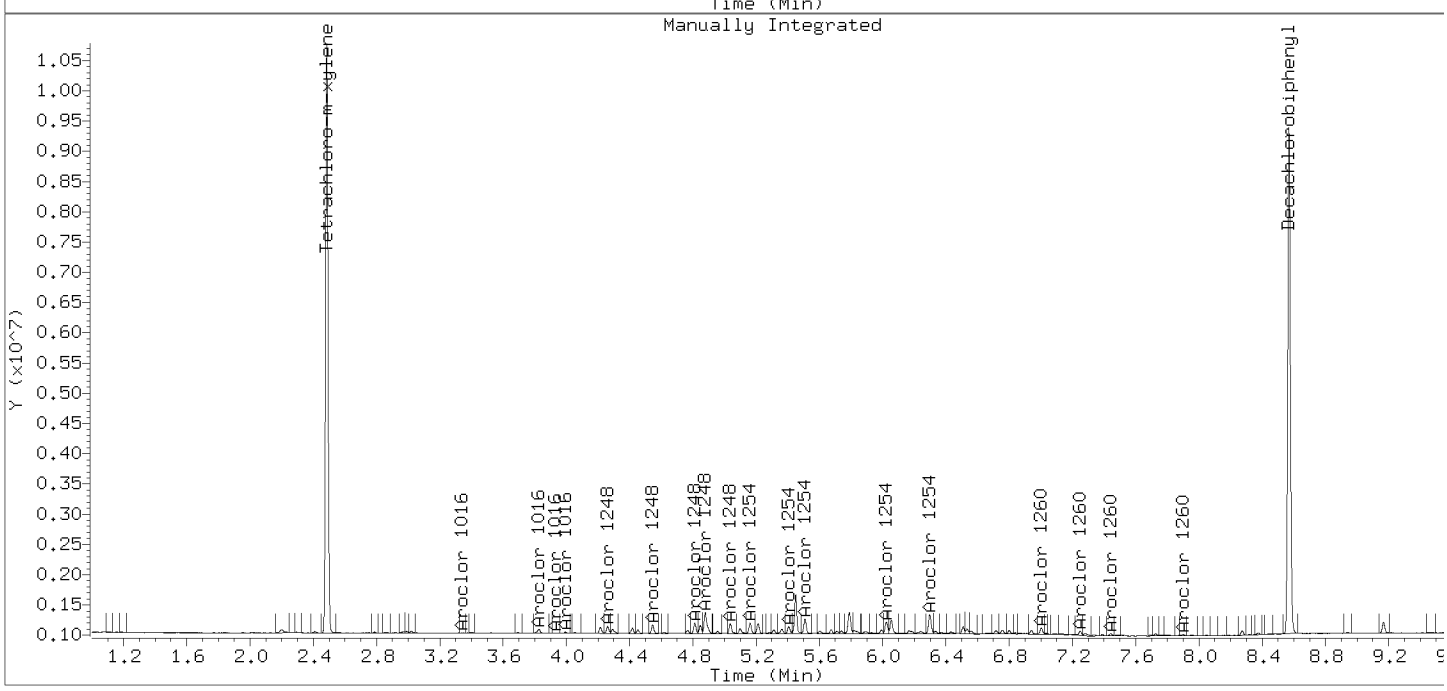
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218014.D
Date : 22-MAR-2018 15:49
Client ID: FD1-170613-01-YP-15
Sample Info: 40151612006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 15:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	11173	0	BA
Aroclor 1016	11173	0	BA
Aroclor 1016	11173	0	BA
Aroclor 1016	11173	0	BA
Aroclor 1016	11173	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	128610	131918	BA
Aroclor 1248	128610	131918	BA
Aroclor 1248	128610	131918	BA
Aroclor 1248	128610	131918	BA
Aroclor 1248	128610	131918	BA
Aroclor 1254	177365	187584	BA
Aroclor 1254	177365	187584	BA
Aroclor 1254	177365	187584	BA
Aroclor 1254	177365	187584	BA
Aroclor 1254	177365	187584	BA
Aroclor 1260	363193	0	CO
Aroclor 1260	363193	0	CO
Aroclor 1260	363193	0	CO
Aroclor 1260	363193	0	CO
Aroclor 1260	363193	0	CO
Tetrachloro-m-xylene	10193317	10193317	
Decachlorobiphenyl	9623558	9623558	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612007
Date Analyzed: 03/22/2018 16:05
Lab File ID: 032218.B\032218015.D
Initial wt/vol: 9.9883 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\032218.b\032218015.D
Lab Smp Id: 40151612007 Client Smp ID: FD1-170613-01-YP-14
Inj Date : 22-MAR-2018 16:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612007,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.988	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.158	31415	28969	0.922	0.12		
1.181	9306	12618	1.356	0.03		
1.535	12837	9957	0.776	0.05		
1.632	9412	7146	0.759	0.03		
1.951	16722	10252	0.613	0.06		
2.013	14481	10297	0.711	0.05		
2.200	134628	61640	0.458	0.54		
2.409	53009	50645	0.955	0.21		
2.485	10212806	9799297	0.960	41.52	$ 2 Tetrachloro-m-xylene	
2.788	19368	16010	0.827	0.07		
2.855	15747	12920	0.820	0.06		
2.961	18372	30663	1.669	0.07		
2.981	35800	38276	1.069	0.14		
2.989	55143	58277	1.057	0.22		
3.019	57198	53691	0.939	0.22		
3.402	9510	7684	0.808	0.03		
3.826	53934	33978	0.630	0.21		
3.996	18576	14338	0.772	0.07		
4.050	17801	11669	0.656	0.07		
4.213	46301	36617	0.791	0.18		
4.259	42511	38891	0.915	0.17	6 Aroclor 1248	CO
4.292	38152	23567	0.618	0.15		
4.416	36385	28816	0.792	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	19511	18943	0.971	0.07	
4.545	48365	38307	0.792	0.19	6 Aroclor 1248
4.767	14245	12319	0.865	0.05	
4.812	45842	40384	0.881	0.18	6 Aroclor 1248
4.847	52925	50223	0.949	0.21	
4.880	140715	77665	0.552	0.56	6 Aroclor 1248
4.957	19092	17206	0.901	0.07	
5.037	42414	41767	0.985	0.17	6 Aroclor 1248
5.050	11449	11829	1.033	0.04	
5.100	60803	47023	0.773	0.24	
5.161	95894	87674	0.914	0.38	7 Aroclor 1254
5.213	103735	92146	0.888	0.41	
5.257	9071	9172	1.011	0.03	
5.280	13372	12276	0.918	0.05	
5.313	53809	51367	0.955	0.21	
5.364	37869	28896	0.763	0.15	
5.406	56958	52326	0.919	0.22	7 Aroclor 1254
5.451	455384	442022	0.971	1.82	
5.509	135663	117430	0.866	0.54	7 Aroclor 1254
5.574	13599	10171	0.748	0.05	
5.603	23819	17747	0.745	0.09	
5.674	55380	49072	0.886	0.22	
5.709	35215	26720	0.759	0.14	
5.743	35196	25840	0.734	0.14	
5.789	245673	201744	0.821	0.98	
5.822	63251	55042	0.870	0.25	
5.898	29278	23577	0.805	0.11	
5.993	46948	45844	0.976	0.18	
6.023	109527	94250	0.861	0.44	7 Aroclor 1254
6.055	211141	167901	0.795	0.84	
6.169	47145	36806	0.781	0.18	
6.227	17566	18423	1.049	0.07	
6.241	40661	28801	0.708	0.16	
6.297	296113	243227	0.821	1.18	8 Aroclor 1260
6.333	40428	35207	0.871	0.16	
6.370	19723	16639	0.844	0.07	
6.430	49298	25965	0.527	0.19	
6.509	121075	106612	0.881	0.48	
6.535	65772	58153	0.884	0.26	
6.559	52051	38982	0.749	0.20	
6.659	20976	15915	0.759	0.08	
6.716	70319	49652	0.706	0.28	
6.756	74337	52232	0.703	0.29	
6.800	67191	50391	0.750	0.26	
6.840	27757	20879	0.752	0.11	
6.941	82278	69984	0.851	0.33	
7.005	109861	99064	0.902	0.44	8 Aroclor 1260
7.029	5019	12470	2.485	0.02	
7.250	65488	57564	0.879	0.26	8 Aroclor 1260
7.280	53177	30777	0.579	0.21	
7.335	25236	18434	0.730	0.10	
7.390	33808	31233	0.924	0.13	
7.443	59069	40132	0.679	0.23	8 Aroclor 1260
7.576	14286	12823	0.898	0.05	
7.625	31720	13864	0.437	0.12	
7.692	14532	17504	1.204	0.05	
7.723	44835	34645	0.773	0.18	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.760	21828	16183	0.741	0.08	
7.809	30325	18516	0.611	0.12	
7.901	33240	23627	0.711	0.13	8 Aroclor 1260
7.956	22182	16195	0.730	0.08	
8.050	25394	17190	0.677	0.10	
8.126	9502	6950	0.731	0.03	
8.273	84474	74641	0.884	0.33	
8.377	31386	22194	0.707	0.12	
8.448	12684	10871	0.857	0.05	
8.476	9661	8790	0.910	0.03	
8.569	9615516	8292187	0.862	38.63	$ 12 Decachlorobiphenyl
8.722	15373	13983	0.910	0.06	
9.166	158963	139786	0.879	0.63	
9.206	9523	7284	0.765	0.03	
9.466	13321	8379	0.629	0.05	
	24888650	22276255		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218015.D
Lab Smp Id: 40151612007 Client Smp ID: FD1-170613-01-YP-14
Inj Date : 22-MAR-2018 16:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612007,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.988	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	10212806	0.08283	41			

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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

Qualifier signal(s) failed ratio test. CO

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

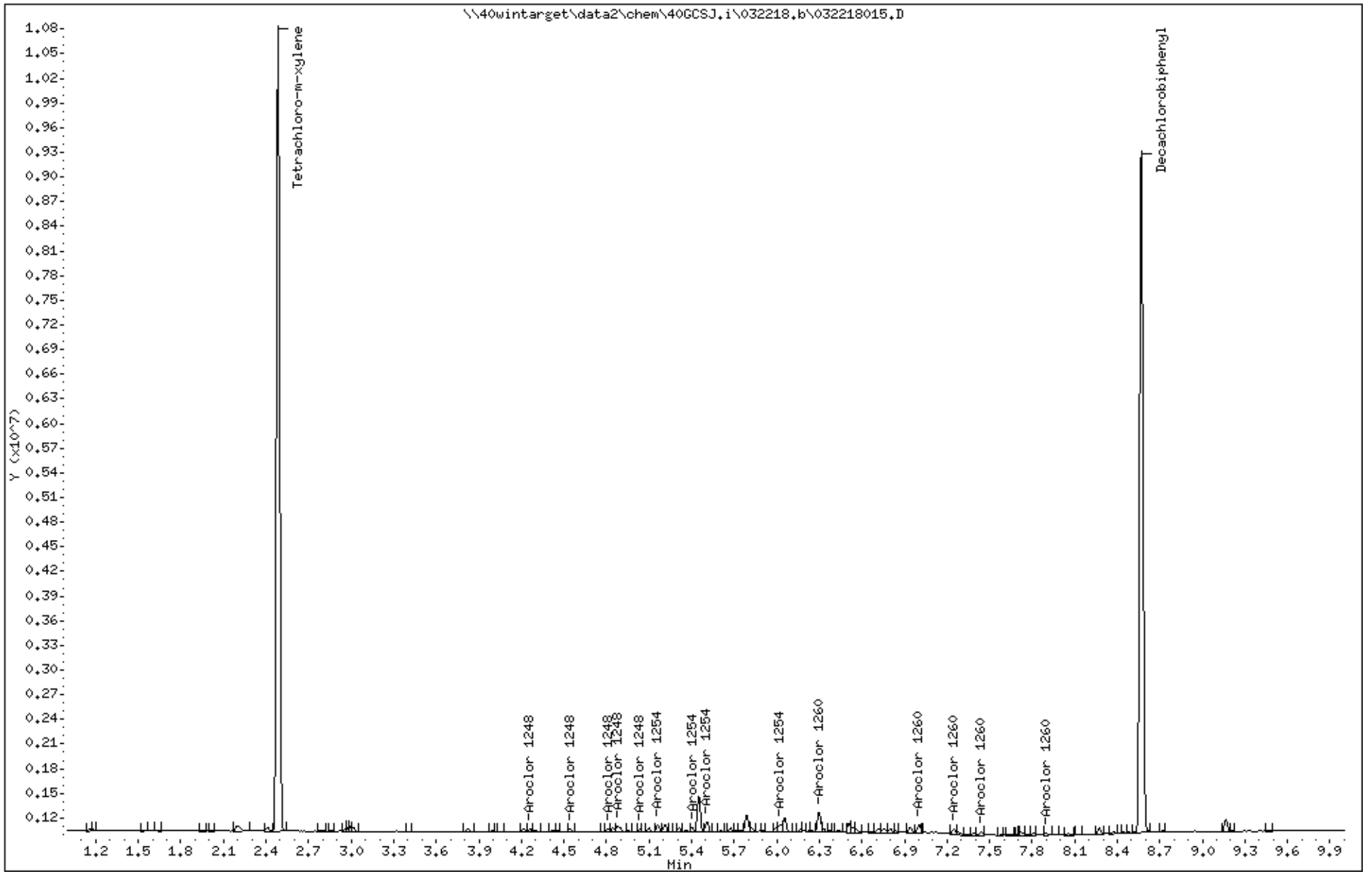
8.569	8.571	-0.002	9615516	0.08776	44			

Review Codes Legend

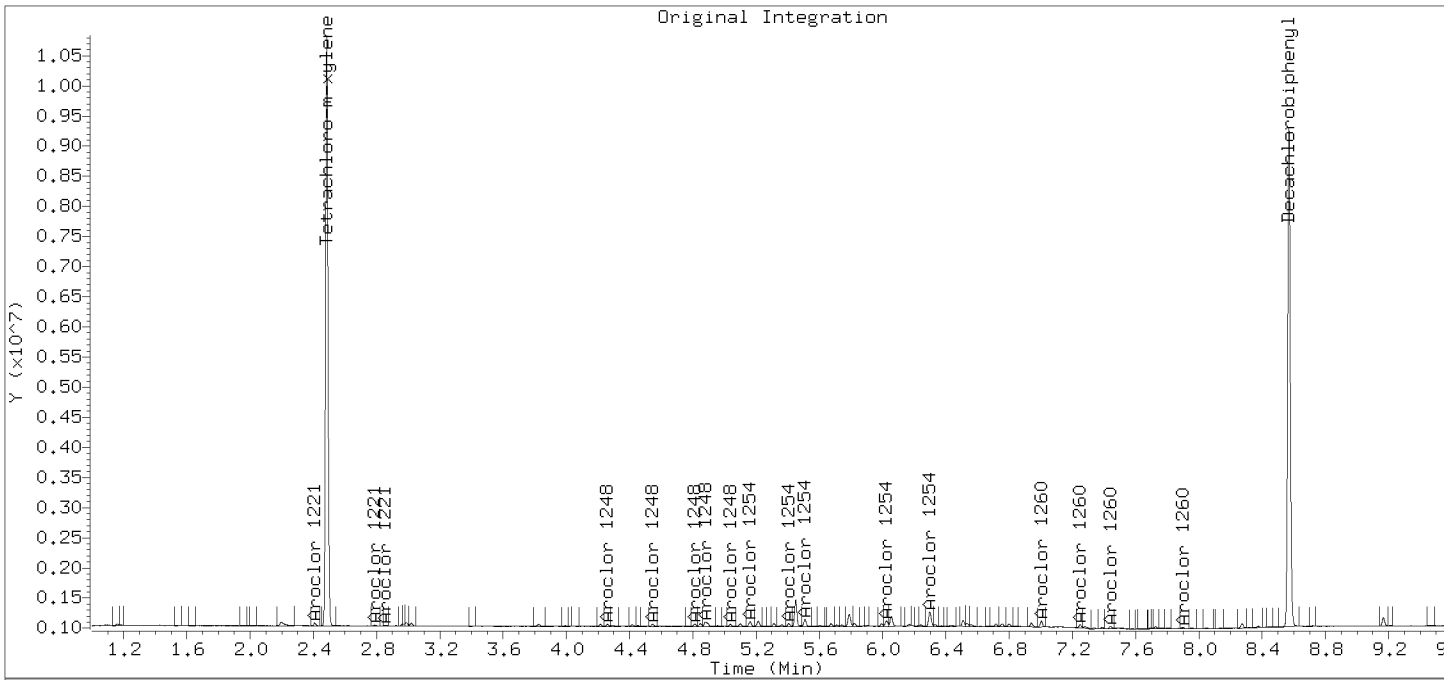
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

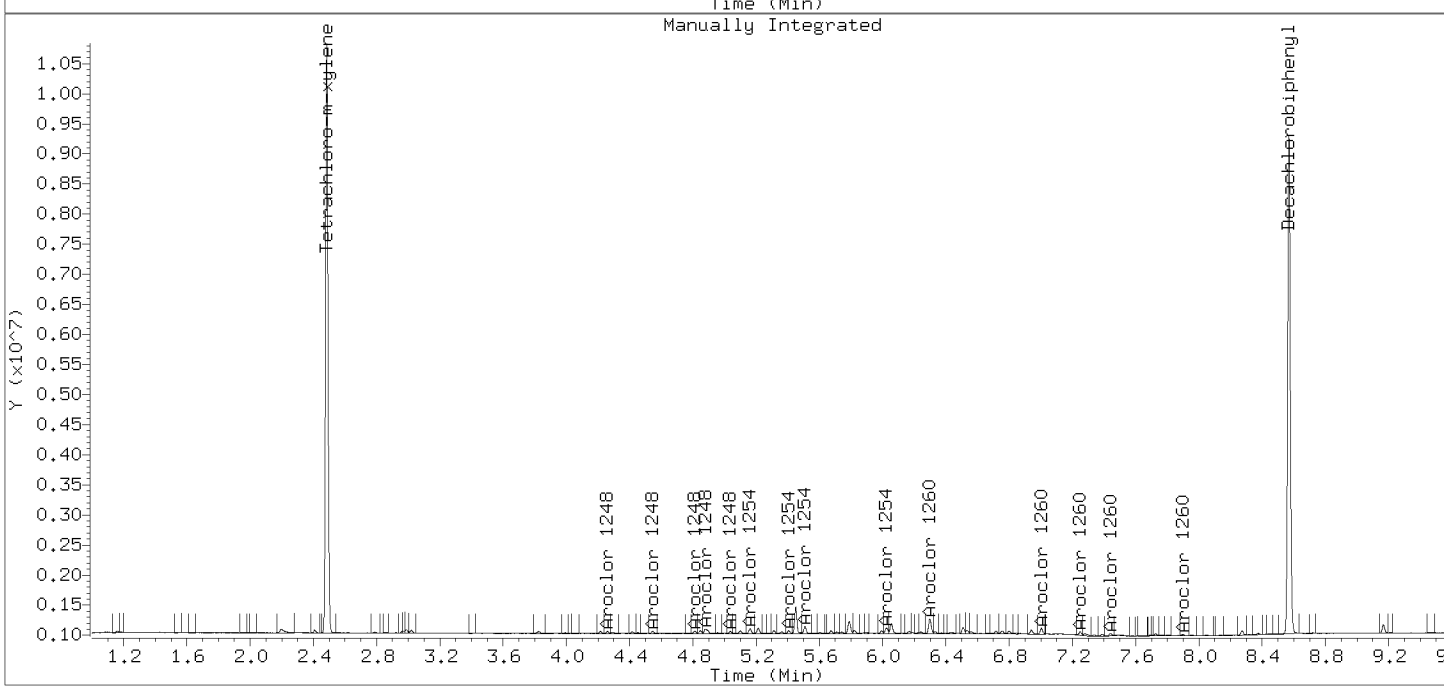
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218015.D
Date : 22-MAR-2018 16:05
Client ID: FD1-170613-01-YP-14
Sample Info: 40151612007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 16:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612007





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	36738	0	CO
Aroclor 1248	36738	0	CO
Aroclor 1248	36738	0	CO
Aroclor 1248	36738	0	CO
Aroclor 1248	36738	0	CO
Aroclor 1254	97505	0	BA
Aroclor 1254	97505	0	BA
Aroclor 1254	97505	0	BA
Aroclor 1254	97505	0	BA
Aroclor 1254	97505	0	BA
Aroclor 1260	285672	0	CO
Aroclor 1260	285672	0	CO
Aroclor 1260	285672	0	CO
Aroclor 1260	285672	0	CO
Aroclor 1260	285672	0	CO
Tetrachloro-m-xylene	10212806	10212806	
Decachlorobiphenyl	9615516	9615516	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612008
Date Analyzed: 03/22/2018 16:52
Lab File ID: 032218.B\032218018.D
Initial wt/vol: 9.9947 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\032218.b\032218018.D
Lab Smp Id: 40151612008 Client Smp ID: FD1-170613-01-YP-13
Inj Date : 22-MAR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612008,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
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
1.070	10586	10142	0.958	0.04		
1.158	29902	29111	0.974	0.12		
1.428	9392	8909	0.949	0.03		
1.532	10796	8213	0.761	0.04		
1.954	12259	8895	0.726	0.05		
2.010	10358	8857	0.855	0.04		
2.199	106154	60329	0.568	0.44		
2.290	16034	9131	0.569	0.06		
2.410	88266	86848	0.984	0.37		
2.485	10048166	9963674	0.992	42.65	$ 2 Tetrachloro-m-xylene	
2.786	20847	18690	0.897	0.08		
2.859	20203	15018	0.743	0.08		
2.975	35934	33356	0.928	0.15		
2.991	63832	58840	0.922	0.26		
3.020	40778	43175	1.059	0.17		
3.315	11833	10390	0.878	0.04	5 Aroclor 1016	BA
3.347	9657	8654	0.896	0.04		
3.825	71375	47711	0.668	0.29	5 Aroclor 1016	BA
3.995	23190	15091	0.651	0.09	5 Aroclor 1016	BA
4.055	14894	12575	0.844	0.06		
4.214	56315	44572	0.791	0.23		
4.260	47606	44484	0.934	0.20	6 Aroclor 1248	CO
4.291	44075	26986	0.612	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.420	39208	31842	0.812	0.16	
4.453	27909	20584	0.738	0.11	
4.545	56161	43097	0.767	0.23	6 Aroclor 1248
4.766	35508	31656	0.892	0.14	
4.813	46345	42839	0.924	0.19	6 Aroclor 1248
4.847	52102	48258	0.926	0.21	
4.878	126386	76076	0.602	0.53	6 Aroclor 1248
4.958	20012	13894	0.694	0.08	
5.037	42951	38496	0.896	0.18	6 Aroclor 1248
5.060	9884	12135	1.228	0.04	
5.099	50491	39188	0.776	0.21	
5.162	84207	76392	0.907	0.35	7 Aroclor 1254
5.215	89661	78778	0.879	0.37	
5.283	10013	11856	1.184	0.04	
5.311	48020	46521	0.969	0.20	
5.361	34049	24073	0.707	0.14	
5.405	46048	43191	0.938	0.19	7 Aroclor 1254
5.452	400512	381639	0.953	1.68	
5.510	117133	100698	0.860	0.49	7 Aroclor 1254
5.604	22399	17400	0.777	0.09	
5.674	48969	42723	0.872	0.20	
5.712	35615	22484	0.631	0.14	
5.741	31762	24207	0.762	0.13	
5.789	208342	168594	0.809	0.87	
5.822	77907	47688	0.612	0.32	
5.900	33669	23845	0.708	0.14	
5.992	41684	41966	1.007	0.17	
6.026	100231	84356	0.842	0.42	7 Aroclor 1254
6.056	173522	145277	0.837	0.72	
6.166	58470	31026	0.531	0.24	
6.243	33202	23918	0.720	0.13	
6.298	233298	194824	0.835	0.98	7 Aroclor 1254
6.329	28672	24642	0.859	0.12	
6.432	32083	19038	0.593	0.13	
6.508	81439	74574	0.916	0.34	
6.536	76453	47991	0.628	0.32	
6.660	20369	14312	0.703	0.08	
6.718	65140	39603	0.608	0.27	
6.755	65184	42320	0.649	0.27	
6.800	60093	40929	0.681	0.25	
6.834	35110	21790	0.621	0.14	
6.873	26108	16591	0.635	0.10	
6.905	17013	13342	0.784	0.07	
6.939	77815	53128	0.683	0.32	
7.002	89993	72364	0.804	0.37	8 Aroclor 1260
7.096	13913	11667	0.839	0.05	
7.125	14567	10271	0.705	0.06	
7.248	53641	44823	0.836	0.22	8 Aroclor 1260
7.280	58913	30370	0.516	0.24	
7.336	42875	24561	0.573	0.18	
7.392	23740	22363	0.942	0.09	
7.444	86791	38380	0.442	0.36	8 Aroclor 1260
7.490	46988	20573	0.438	0.19	
7.583	13718	12604	0.919	0.05	
7.661	7542	10609	1.407	0.03	
7.698	7970	10836	1.360	0.03	
7.725	51568	34383	0.667	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.801	31950	16454	0.515	0.13	
7.893	24820	16200	0.653	0.10	8 Aroclor 1260
8.046	22875	16436	0.719	0.09	
8.274	75554	65995	0.873	0.31	
8.376	27959	19186	0.686	0.11	
8.570	9151864	7928174	0.866	38.45	$ 12 Decachlorobiphenyl
8.637	13344	12909	0.967	0.05	
8.717	13990	9554	0.683	0.05	
9.167	100580	86843	0.863	0.42	
	23798754	21526987		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218018.D
Lab Smp Id: 40151612008 Client Smp ID: FD1-170613-01-YP-13
Inj Date : 22-MAR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612008,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
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	10048165	0.08150	41			
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).								

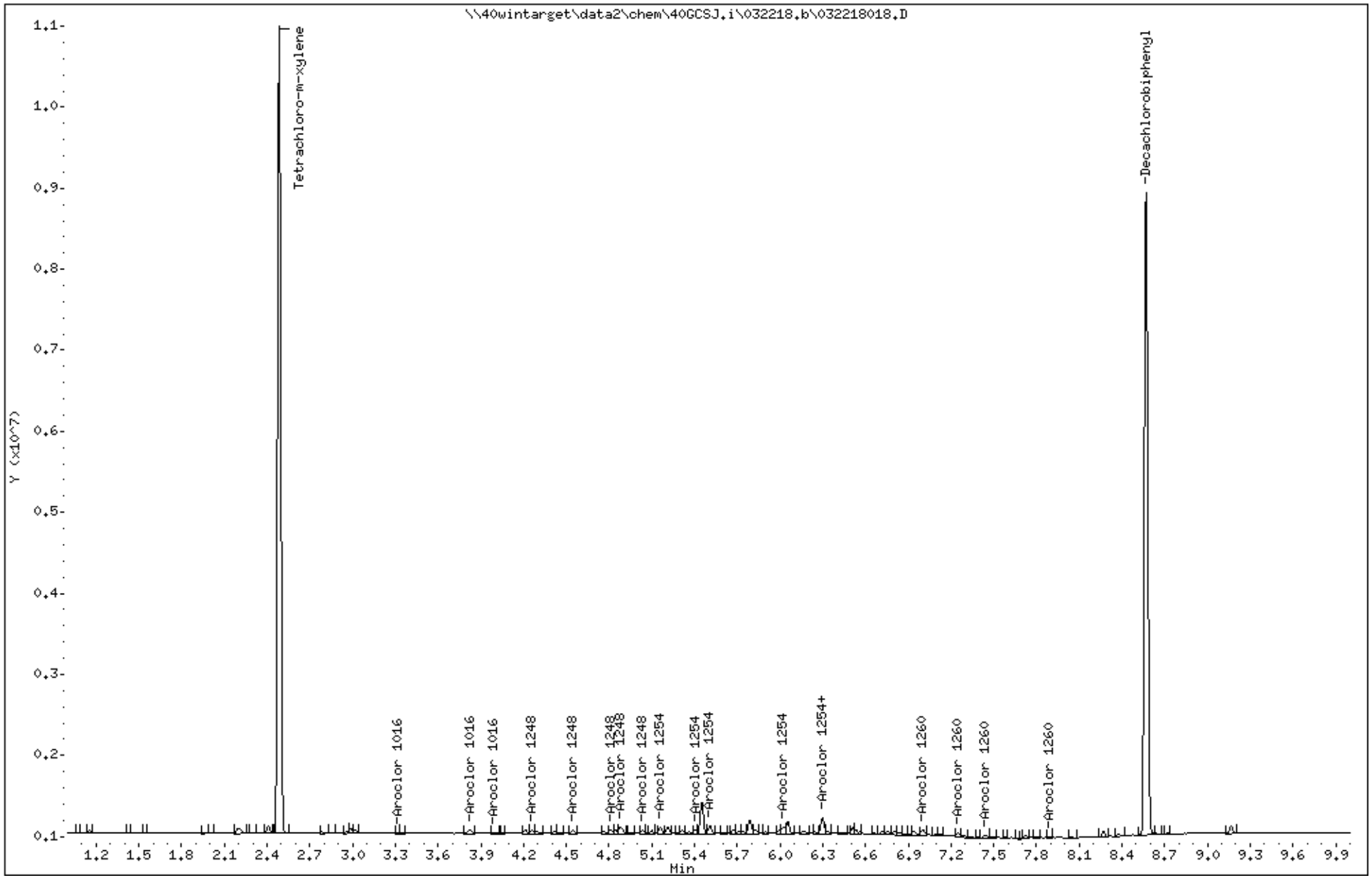
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9151863	0.08353	42			

Review Codes Legend

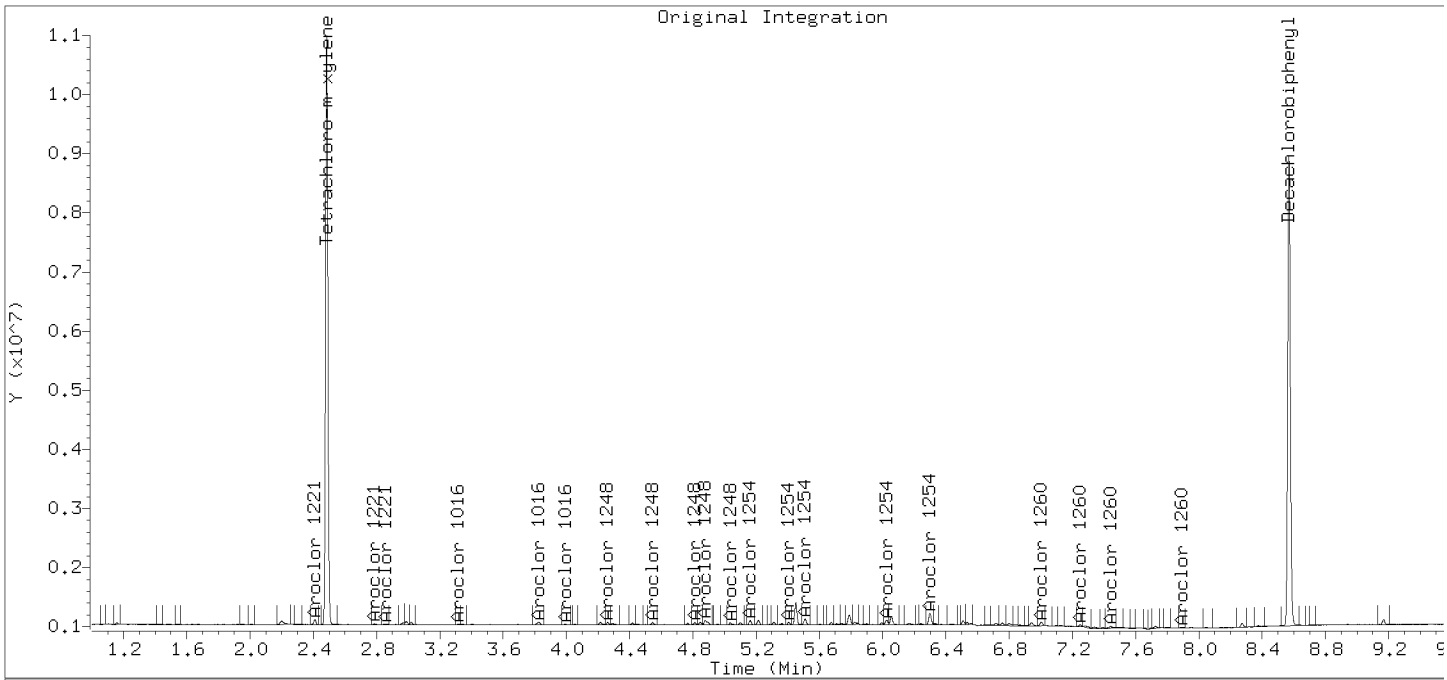
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

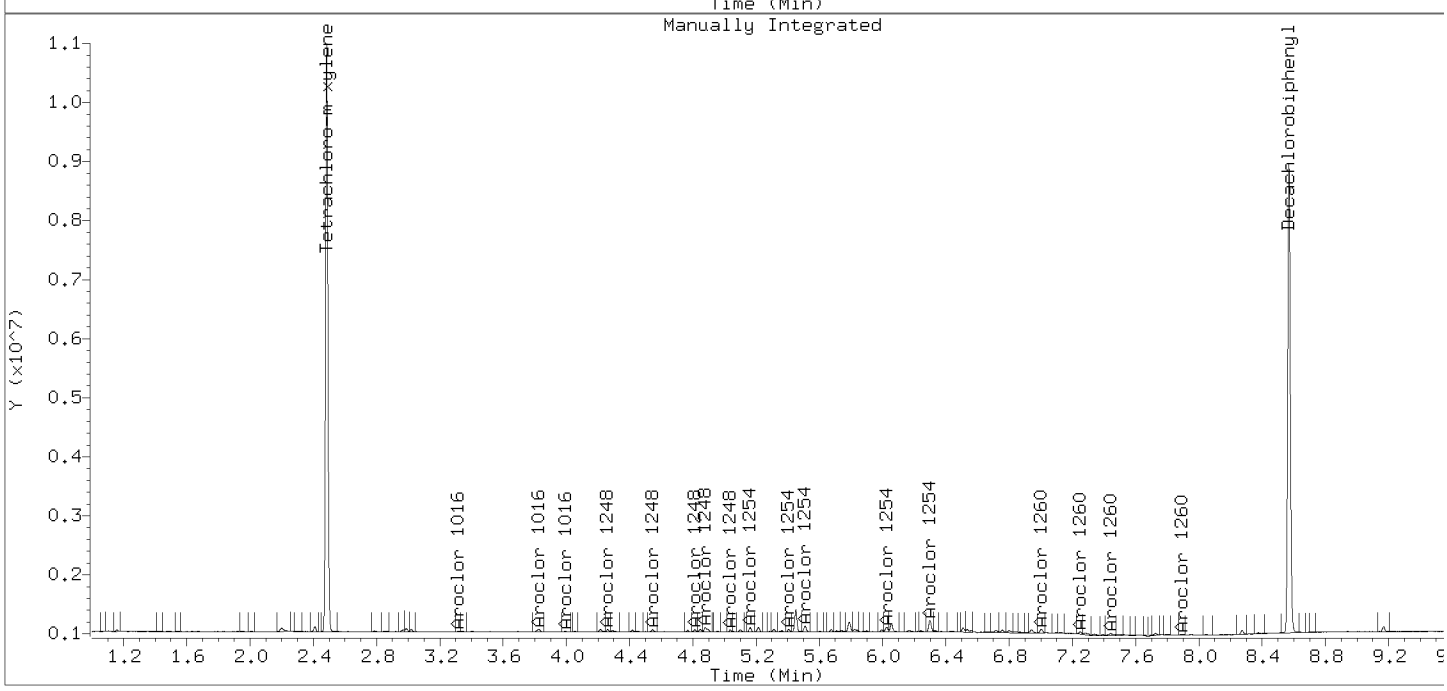
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218018.D
Date : 22-MAR-2018 16:52
Client ID: FD1-170613-01-YP-13
Sample Info: 40151612008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 16:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	11832	0	BA
Aroclor 1016	11832	0	BA
Aroclor 1016	11832	0	BA
Aroclor 1016	11832	0	BA
Aroclor 1016	11832	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	43642	0	CO
Aroclor 1248	43642	0	CO
Aroclor 1248	43642	0	CO
Aroclor 1248	43642	0	CO
Aroclor 1248	43642	0	CO
Aroclor 1254	80410	0	BA
Aroclor 1254	80410	0	BA
Aroclor 1254	80410	0	BA
Aroclor 1254	80410	0	BA
Aroclor 1254	80410	0	BA
Aroclor 1260	225751	0	BA
Aroclor 1260	225751	0	BA
Aroclor 1260	225751	0	BA
Aroclor 1260	225751	0	BA
Aroclor 1260	225751	0	BA
Tetrachloro-m-xylene	10048165	10048165	
Decachlorobiphenyl	9151863	9151863	

==========

SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151612

Date Extracted: 03/21/2018 07:00

Lab Sample ID: 40151612009

Date Analyzed: 03/22/2018 17:08

Lab File ID: 032218.B\032218019.D

Initial wt/vol: 10.0163 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\032218.b\032218019.D
Lab Smp Id: 40151612009 Client Smp ID: FD1-170613-01-YP-12
Inj Date : 22-MAR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612009,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.156	34089	22884	0.671	0.13		
2.199	153596	73740	0.480	0.58		
2.288	16584	13256	0.799	0.06		
2.317	9791	11577	1.182	0.03		
2.407	46070	44369	0.963	0.17		
2.484	10465456	10243441	0.979	40.59	$ 2 Tetrachloro-m-xylene	
2.788	17840	16555	0.928	0.06		
2.857	29738	18664	0.628	0.11		
2.915	12973	9395	0.724	0.04		
2.962	16096	26646	1.655	0.06		
2.972	27958	34276	1.226	0.10		
2.987	50691	51546	1.017	0.19		
3.019	55861	51493	0.922	0.21		
3.689	9562	7191	0.752	0.03		
3.825	55598	36103	0.649	0.21		
4.214	46156	40061	0.868	0.17		
4.261	49730	43387	0.872	0.19	6 Aroclor 1248	CO
4.292	44058	32847	0.746	0.16		
4.419	31948	29375	0.919	0.12		
4.453	24023	19060	0.793	0.09		
4.546	59050	44143	0.748	0.22	6 Aroclor 1248	CO
4.768	17443	15661	0.898	0.06		
4.813	61066	55269	0.905	0.23	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	57380	54424	0.948	0.22	
4.877	160318	102792	0.641	0.61	6 Aroclor 1248
4.957	26599	20690	0.778	0.10	
5.038	44984	43613	0.970	0.17	6 Aroclor 1248
5.056	10190	12518	1.228	0.03	
5.100	66518	49246	0.740	0.25	
5.163	122652	109536	0.893	0.47	7 Aroclor 1254
5.213	131025	115066	0.878	0.50	
5.283	18118	15871	0.876	0.06	
5.312	54356	52559	0.967	0.20	
5.361	44936	35785	0.796	0.17	
5.406	69885	60993	0.873	0.26	7 Aroclor 1254
5.451	530771	521305	0.982	2.03	
5.510	157129	135671	0.863	0.60	7 Aroclor 1254
5.576	18446	13194	0.715	0.07	
5.603	27717	21238	0.766	0.10	
5.674	64387	54074	0.840	0.24	
5.708	37344	29264	0.784	0.14	
5.740	40276	30350	0.754	0.15	
5.790	309865	249976	0.807	1.18	
5.821	65600	50482	0.770	0.25	
5.884	13992	19025	1.360	0.05	
5.898	27395	24389	0.890	0.10	
5.932	14130	13946	0.987	0.05	
5.994	60546	56028	0.925	0.23	
6.024	132389	120511	0.910	0.50	7 Aroclor 1254
6.055	242672	200800	0.827	0.93	
6.169	72309	38910	0.538	0.27	
6.243	57465	31512	0.548	0.22	
6.298	327785	277550	0.847	1.25	8 Aroclor 1260
6.335	36580	32412	0.886	0.14	
6.373	14867	11589	0.780	0.05	
6.431	34897	23521	0.674	0.13	
6.485	6552	8443	1.289	0.02	
6.509	115746	106685	0.922	0.44	
6.534	72108	67647	0.938	0.27	
6.560	64459	45612	0.708	0.24	
6.617	12864	11093	0.862	0.04	
6.661	20204	15587	0.771	0.07	
6.716	65591	54614	0.833	0.25	
6.754	81301	59565	0.733	0.31	
6.799	67337	50621	0.752	0.25	
6.941	81958	72592	0.886	0.31	
7.003	115027	107394	0.934	0.44	8 Aroclor 1260
7.035	12885	14565	1.130	0.04	
7.122	9433	9795	1.038	0.03	
7.248	87296	71367	0.818	0.33	8 Aroclor 1260
7.284	63277	36930	0.584	0.24	
7.343	25010	18620	0.745	0.09	
7.389	44128	32101	0.727	0.16	
7.444	56620	40686	0.719	0.21	8 Aroclor 1260
7.484	33727	20358	0.604	0.12	
7.522	23914	17822	0.745	0.09	
7.582	14537	13151	0.905	0.05	
7.691	25425	23381	0.920	0.09	
7.725	48380	36568	0.756	0.18	
7.762	26925	20830	0.774	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.804	33011	21932	0.664	0.12	
7.898	36308	22508	0.620	0.13	8 Aroclor 1260
7.951	34325	22045	0.642	0.13	
8.046	16238	16338	1.006	0.06	
8.076	15222	12808	0.841	0.05	
8.274	83044	73848	0.889	0.31	
8.320	10628	9674	0.910	0.04	
8.373	48638	35893	0.738	0.18	
8.447	18338	16295	0.889	0.07	
8.480	21546	13316	0.618	0.08	
8.570	9887487	8572145	0.867	37.91	$ 12 Decachlorobiphenyl
8.721	15050	10859	0.722	0.05	
9.167	245596	213122	0.868	0.94	
9.956	9888	6416	0.649	0.03	
	26078925	23573005		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218019.D
Lab Smp Id: 40151612009 Client Smp ID: FD1-170613-01-YP-12
Inj Date : 22-MAR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612009,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	10.016	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	10465455	0.08488	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).								

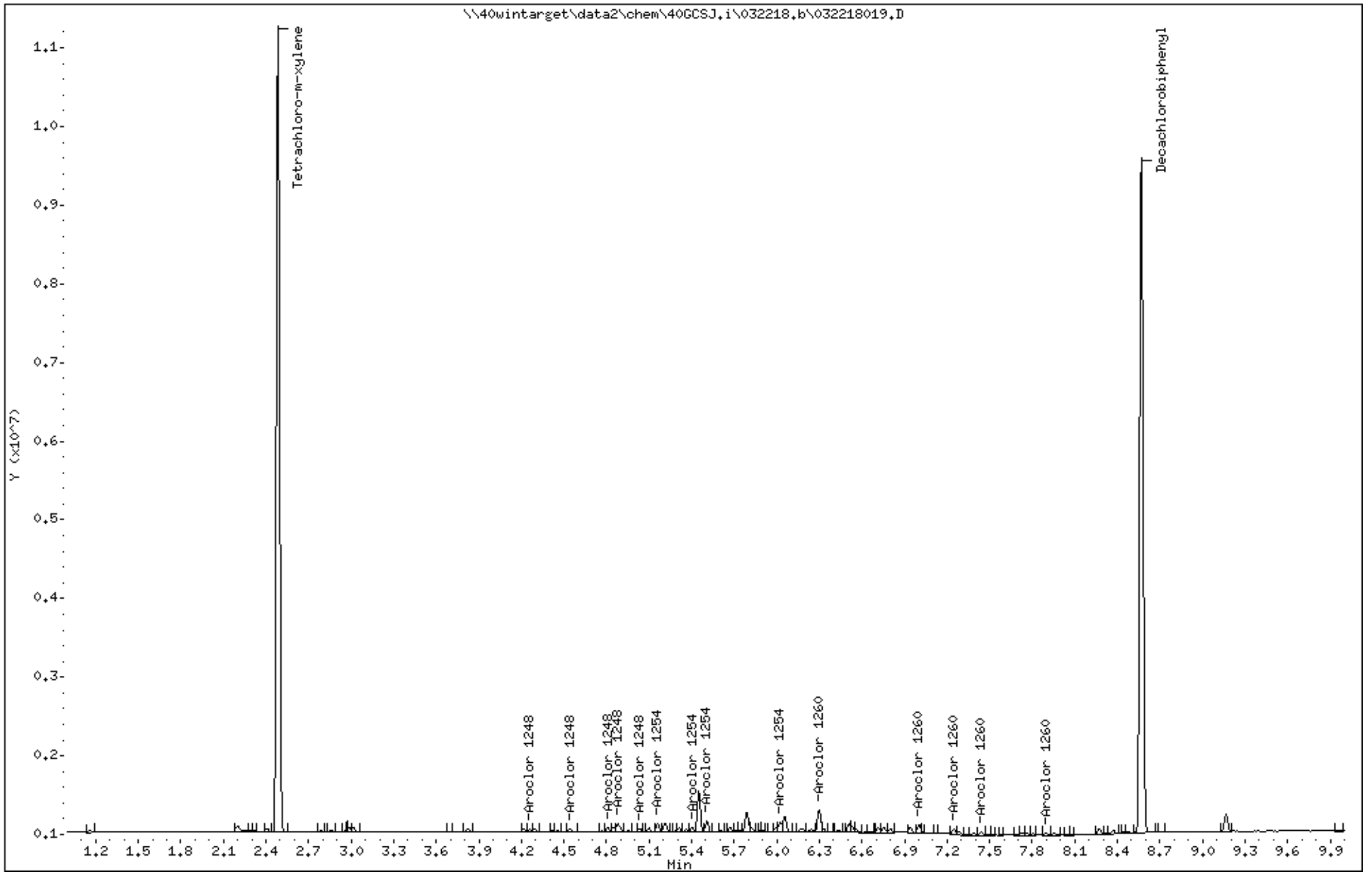
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9887487	0.09025	45			

Review Codes Legend

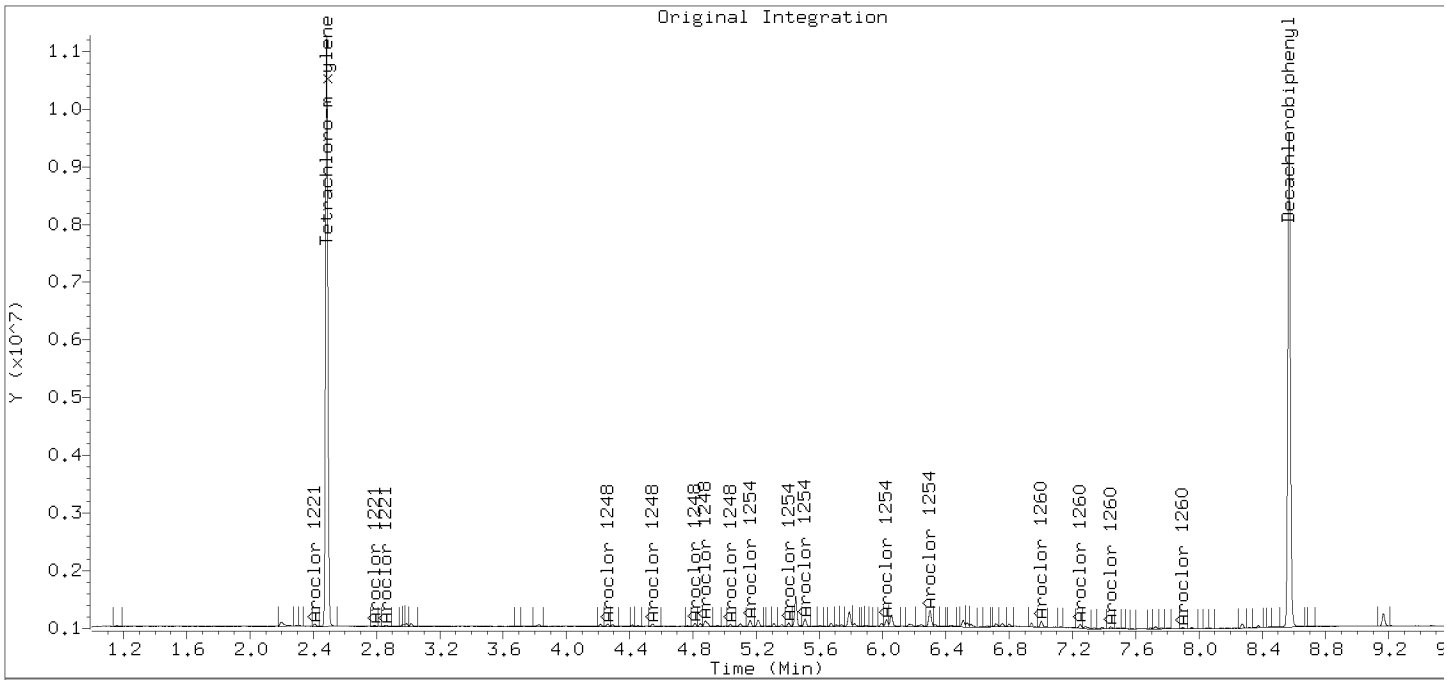
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

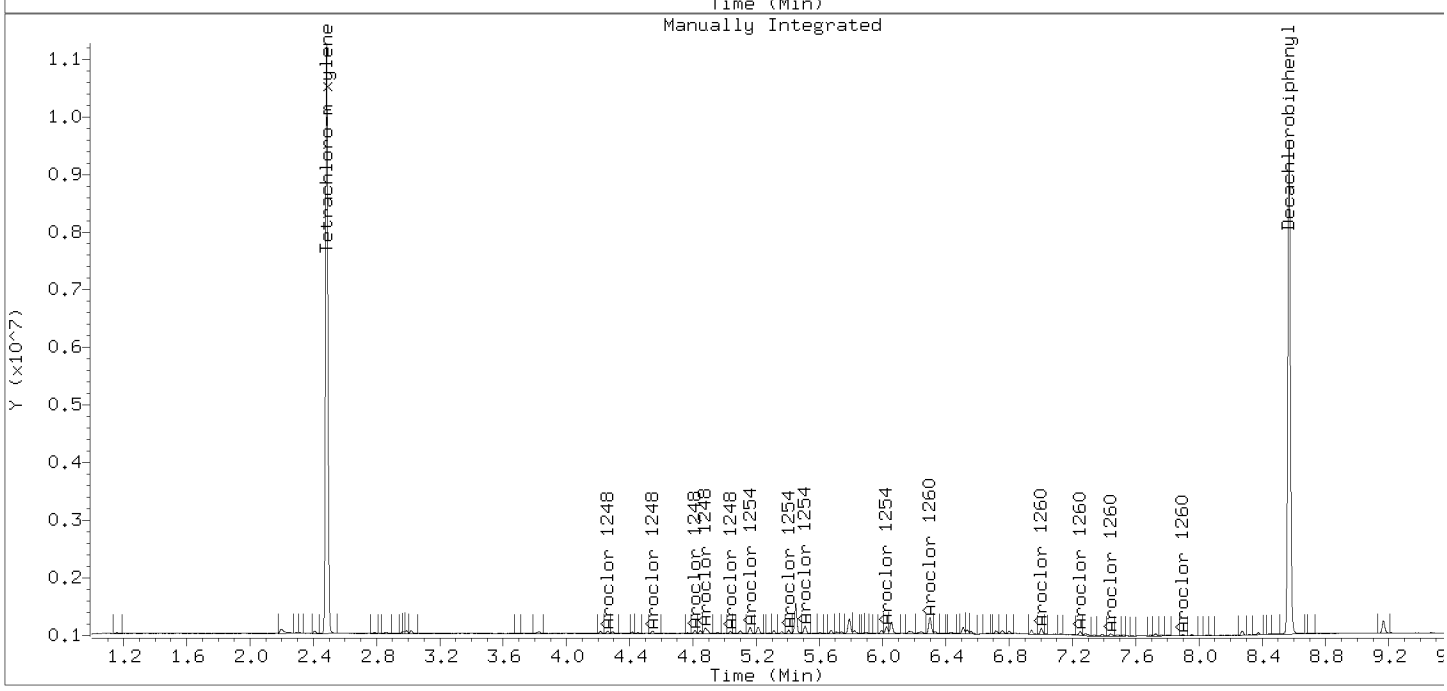
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218019.D
Date : 22-MAR-2018 17:08
Client ID: FD1-170613-01-YP-12
Sample Info: 40151612009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 17:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612009





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	45671	0	CO
Aroclor 1248	45671	0	CO
Aroclor 1248	45671	0	CO
Aroclor 1248	45671	0	CO
Aroclor 1248	45671	0	CO
Aroclor 1254	116595	0	BA
Aroclor 1254	116595	0	BA
Aroclor 1254	116595	0	BA
Aroclor 1254	116595	0	BA
Aroclor 1254	116595	0	BA
Aroclor 1260	326362	0	CO
Aroclor 1260	326362	0	CO
Aroclor 1260	326362	0	CO
Aroclor 1260	326362	0	CO
Aroclor 1260	326362	0	CO
Tetrachloro-m-xylene	10465455	10465455	
Decachlorobiphenyl	9887487	9887487	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612010
Date Analyzed: 03/22/2018 17:24
Lab File ID: 032218.B\032218020.D
Initial wt/vol: 9.9635 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\032218.b\032218020.D
Lab Smp Id: 40151612010 Client Smp ID: FD1-170613-01-YP-11
Inj Date : 22-MAR-2018 17:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612010,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
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	9.963	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	14204	9315	0.656	0.05		
1.158	48825	37255	0.763	0.19		
1.538	9394	8819	0.939	0.03		
2.197	84743	52301	0.617	0.33		
2.292	21735	20708	0.953	0.08		
2.408	109884	102858	0.936	0.43		
2.485	10350211	10128332	0.979	41.51	$ 2 Tetrachloro-m-xylene	
2.786	21227	17557	0.827	0.08		
2.857	22144	18238	0.824	0.08		
2.989	96944	61111	0.630	0.38		
3.019	37192	38379	1.032	0.14		
3.316	9212	9385	1.019	0.03	5 Aroclor 1016	BA
3.513	12263	9358	0.763	0.04	5 Aroclor 1016	BA
3.826	73383	50751	0.692	0.29	5 Aroclor 1016	BA
3.995	22924	15764	0.688	0.09	5 Aroclor 1016	BA
4.216	60769	52154	0.858	0.24		
4.261	56900	50023	0.879	0.22	6 Aroclor 1248	CO
4.291	41551	30300	0.729	0.16		
4.419	43625	38294	0.878	0.17		
4.453	26180	22642	0.865	0.10		
4.543	59055	46284	0.784	0.23	6 Aroclor 1248	CO
4.768	25104	21531	0.858	0.09		
4.812	54032	47313	0.876	0.21	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	55489	54177	0.976	0.22	
4.879	147197	89265	0.606	0.58	6 Aroclor 1248
4.954	20735	16373	0.790	0.08	
5.036	45849	42268	0.922	0.18	6 Aroclor 1248
5.055	12317	14309	1.162	0.04	
5.099	61127	45275	0.741	0.24	
5.161	106081	98201	0.926	0.42	7 Aroclor 1254
5.214	99349	85299	0.859	0.39	
5.280	11720	12309	1.050	0.04	
5.312	53337	50690	0.950	0.21	
5.361	39403	29593	0.751	0.15	
5.405	57315	54287	0.947	0.22	7 Aroclor 1254
5.450	468414	458789	0.979	1.86	
5.508	147380	124929	0.848	0.58	7 Aroclor 1254
5.606	27190	17624	0.648	0.10	
5.673	51954	48552	0.935	0.20	
5.710	38894	26505	0.681	0.15	
5.739	26345	25155	0.955	0.10	
5.789	246713	209277	0.848	0.97	
5.821	73384	52906	0.721	0.29	
5.889	33496	23656	0.706	0.13	
5.992	46057	45200	0.981	0.18	
6.024	119033	104894	0.881	0.47	7 Aroclor 1254
6.055	204255	177583	0.869	0.81	
6.170	62569	34597	0.553	0.24	
6.229	15404	17452	1.133	0.06	
6.239	31956	24371	0.763	0.12	
6.298	257087	224794	0.874	1.02	8 Aroclor 1260
6.332	30854	27172	0.881	0.12	
6.373	13624	11609	0.852	0.05	
6.431	30490	18068	0.593	0.12	
6.509	89480	80773	0.903	0.35	
6.535	58554	53076	0.906	0.23	
6.557	55354	31793	0.574	0.21	
6.620	11965	10379	0.867	0.04	
6.661	19758	13788	0.698	0.07	
6.717	67985	43590	0.641	0.27	
6.757	63455	46782	0.737	0.25	
6.802	57247	42474	0.742	0.22	
6.836	32484	18959	0.584	0.12	
6.940	76885	56057	0.729	0.30	
7.003	87999	76332	0.867	0.34	8 Aroclor 1260
7.019	22709	17326	0.763	0.09	
7.124	19708	14508	0.736	0.07	
7.249	52364	44761	0.855	0.20	8 Aroclor 1260
7.281	45724	29308	0.641	0.18	
7.338	27912	18758	0.672	0.11	
7.389	24447	21934	0.897	0.09	
7.443	46288	29376	0.635	0.18	8 Aroclor 1260
7.580	14337	13987	0.976	0.05	
7.691	13335	12900	0.967	0.05	
7.725	47791	35489	0.743	0.18	
7.762	20196	13675	0.677	0.08	
7.799	30193	18648	0.618	0.11	
7.896	25732	16302	0.634	0.10	8 Aroclor 1260
7.954	20827	13132	0.631	0.08	
8.047	12917	10846	0.840	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.273	82054	72652	0.885	0.32	
8.378	25918	18823	0.726	0.10	
8.569	9990031	9060706	0.907	39.67	$ 12 Decachlorobiphenyl
8.721	10464	8438	0.806	0.04	
9.166	87507	77014	0.880	0.34	
	25178139	23176437		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218020.D
Lab Smp Id: 40151612010 Client Smp ID: FD1-170613-01-YP-11
Inj Date : 22-MAR-2018 17:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612010,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
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	9.963	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	10350210	0.08395	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			
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.								BA
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	9990030	0.09118	46			

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\032218.b\032218020.D

Date : 22-MAR-2018 17:24

Client ID: FD1-170613-01-YP-11

Instrument: 40GCSJ.i

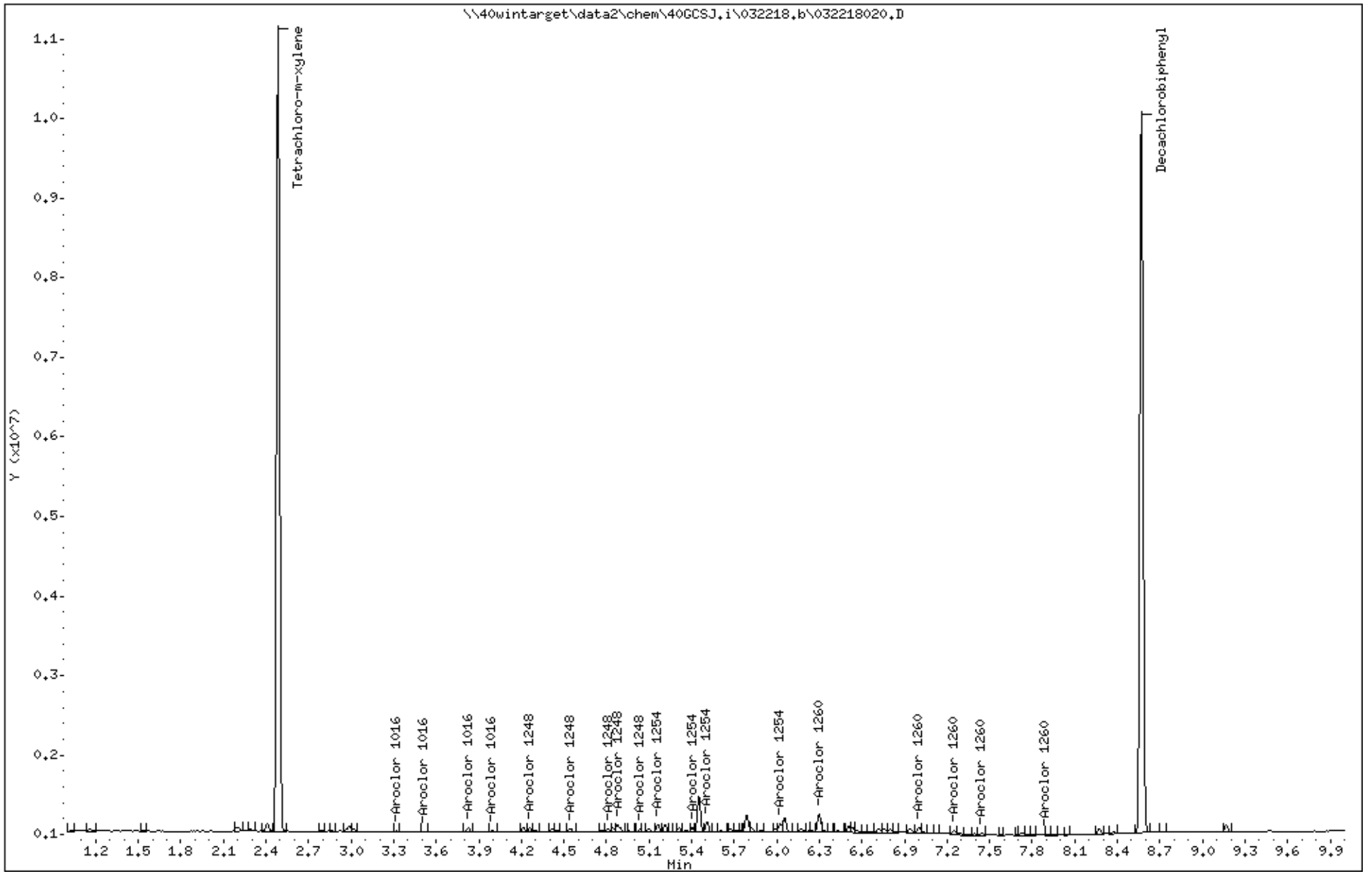
Sample Info: 40151612010,

Volume Injected (uL): 1.0

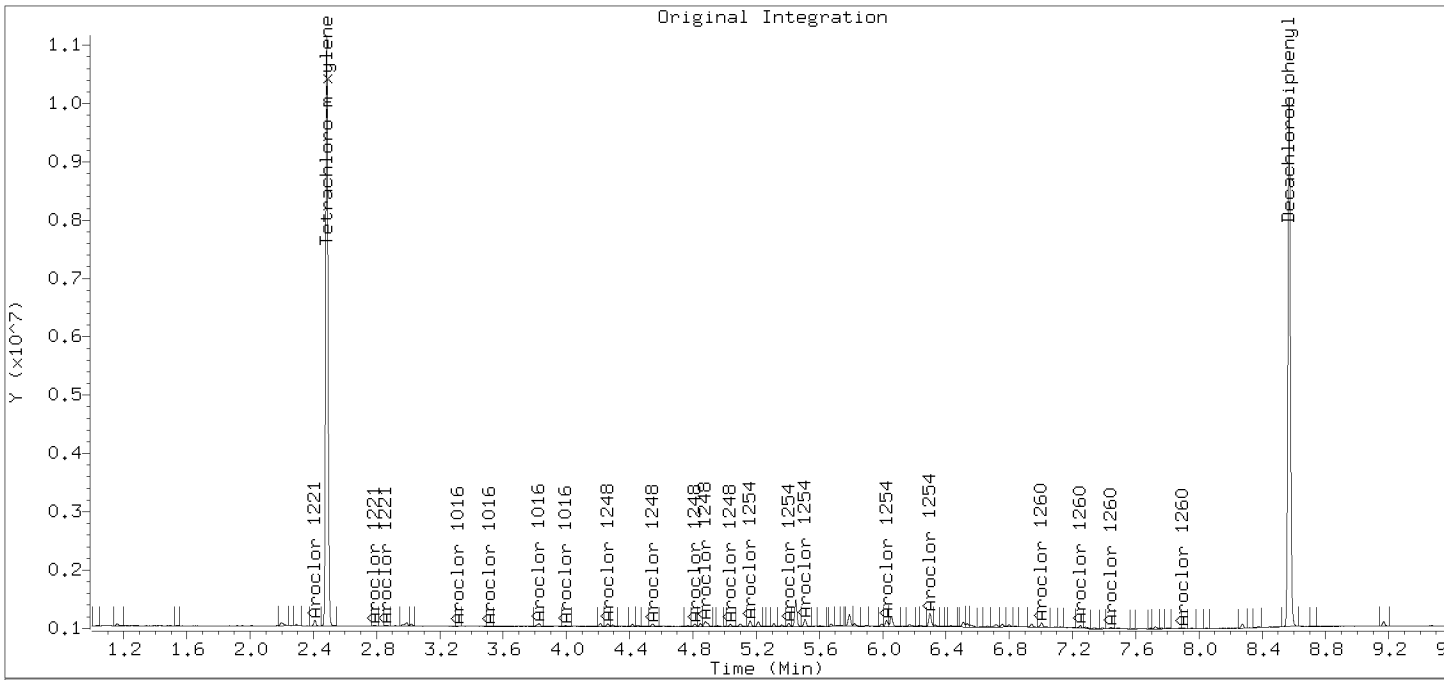
Operator: BLM

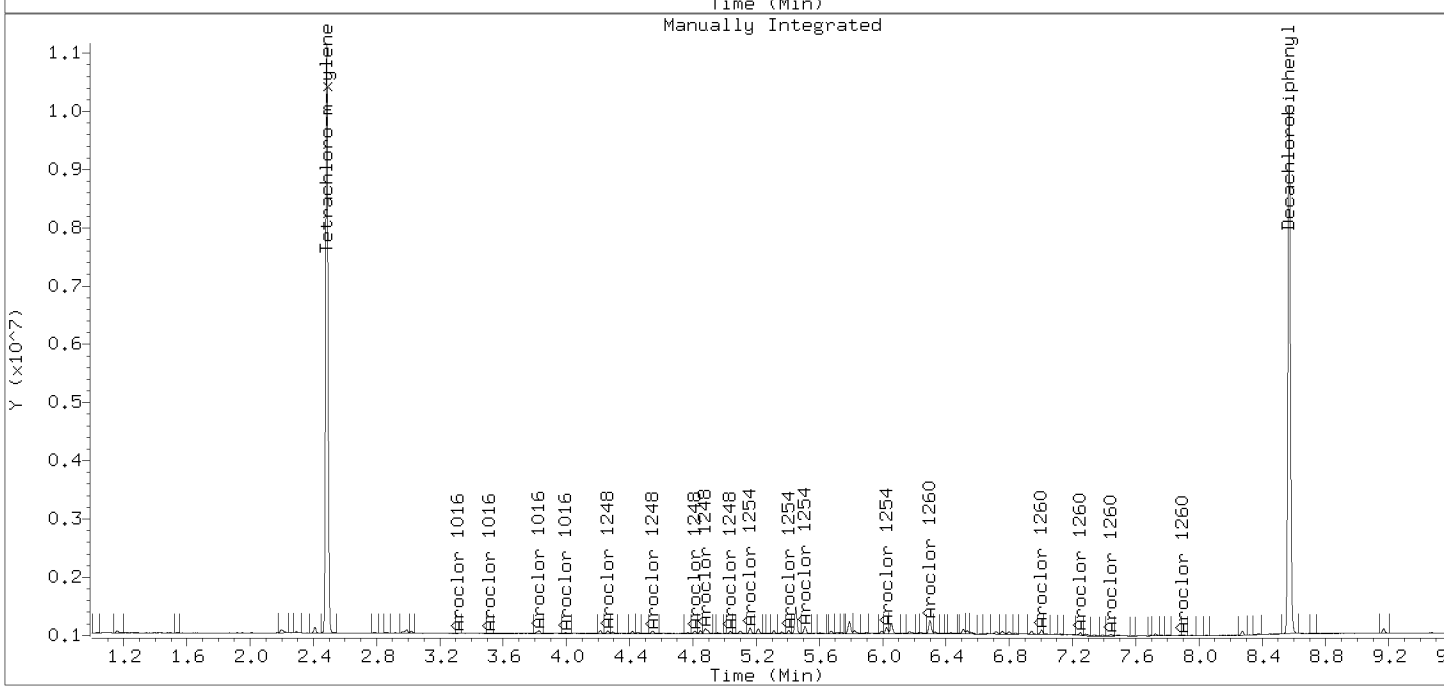
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 17:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	9212	0	BA
Aroclor 1016	9212	0	BA
Aroclor 1016	9212	0	BA
Aroclor 1016	9212	0	BA
Aroclor 1016	9212	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	53131	0	CO
Aroclor 1248	53131	0	CO
Aroclor 1248	53131	0	CO
Aroclor 1248	53131	0	CO
Aroclor 1248	53131	0	CO
Aroclor 1254	101599	0	BA
Aroclor 1254	101599	0	BA
Aroclor 1254	101599	0	BA
Aroclor 1254	101599	0	BA
Aroclor 1254	101599	0	BA
Aroclor 1260	256320	0	CO
Aroclor 1260	256320	0	CO
Aroclor 1260	256320	0	CO
Aroclor 1260	256320	0	CO
Aroclor 1260	256320	0	CO
Tetrachloro-m-xylene	10350210	10350210	
Decachlorobiphenyl	9990030	9990030	

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SAMPLE NO.

FD1-170613-01-YP-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612011
Date Analyzed: 03/22/2018 17:40
Lab File ID: 032218.B\032218021.D
Initial wt/vol: 10.0106 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\032218.b\032218021.D
Lab Smp Id: 40151612011 Client Smp ID: FD1-170613-01-YP-10
Inj Date : 22-MAR-2018 17:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612011,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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
1.026	12617	9461	0.750	0.05		
1.159	39783	33358	0.838	0.15		
1.537	12289	10491	0.854	0.04		
2.198	88642	50597	0.571	0.35		
2.294	12665	10203	0.806	0.05		
2.409	79777	80054	1.003	0.31		
2.485	10518396	10440779	0.993	41.72	$ 2 Tetrachloro-m-xylene	
2.788	22747	17364	0.763	0.09		
2.861	27903	19111	0.685	0.11		
2.921	11698	10902	0.932	0.04		
2.970	27471	29349	1.068	0.10		
2.990	69879	55782	0.798	0.27		
3.019	45441	44814	0.986	0.18		
3.828	53008	34908	0.659	0.21		
3.993	16124	13428	0.833	0.06		
4.051	19109	11820	0.619	0.07		
4.215	37041	30645	0.827	0.14		
4.261	42320	33102	0.782	0.16	6 Aroclor 1248	CO
4.292	31460	22954	0.730	0.12		
4.417	28341	24953	0.880	0.11		
4.456	21922	14900	0.680	0.08		
4.545	39177	33063	0.844	0.15	6 Aroclor 1248	CO
4.765	15298	13320	0.871	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.812	41216	36322	0.881	0.16	6 Aroclor 1248
4.847	39865	37309	0.936	0.15	
4.878	106649	65464	0.614	0.42	6 Aroclor 1248
4.951	16026	11790	0.736	0.06	
5.036	33575	31299	0.932	0.13	6 Aroclor 1248
5.052	9683	12289	1.269	0.03	
5.098	43410	33818	0.779	0.17	
5.162	80025	73041	0.913	0.31	7 Aroclor 1254
5.213	80976	68554	0.847	0.32	
5.313	39824	37692	0.946	0.15	
5.364	27978	22549	0.806	0.11	
5.406	40777	39855	0.977	0.16	7 Aroclor 1254
5.452	395964	379881	0.959	1.57	
5.509	102462	89280	0.871	0.40	7 Aroclor 1254
5.605	20079	15571	0.775	0.07	
5.675	41780	37319	0.893	0.16	
5.710	27250	21436	0.787	0.10	
5.740	29023	20859	0.719	0.11	
5.788	191397	156757	0.819	0.75	
5.822	57432	44013	0.766	0.22	
5.901	31351	17477	0.557	0.12	
5.993	41994	39169	0.933	0.16	
6.025	80831	70620	0.874	0.32	7 Aroclor 1254
6.056	169352	137178	0.810	0.67	
6.169	51883	29736	0.573	0.20	
6.235	29902	21485	0.719	0.11	
6.299	209634	179157	0.855	0.83	7 Aroclor 1254
6.332	24642	21358	0.867	0.09	
6.431	26771	15837	0.592	0.10	
6.510	73456	67575	0.920	0.29	
6.535	73239	44782	0.611	0.29	
6.617	9533	9317	0.977	0.03	
6.654	16927	11721	0.692	0.06	
6.696	9913	10178	1.027	0.03	
6.716	44618	32800	0.735	0.17	
6.755	53580	37949	0.708	0.21	
6.801	53288	34730	0.652	0.21	
6.839	39214	18231	0.465	0.15	
6.909	14132	13050	0.923	0.05	
6.940	67001	48624	0.726	0.26	
7.003	81002	69996	0.864	0.32	8 Aroclor 1260
7.027	15879	13010	0.819	0.06	
7.089	16648	10396	0.624	0.06	
7.124	22906	13204	0.576	0.09	
7.249	49773	42007	0.844	0.19	8 Aroclor 1260
7.280	51398	25930	0.504	0.20	
7.337	33838	20260	0.599	0.13	
7.390	23090	21308	0.923	0.09	
7.441	45840	26916	0.587	0.18	8 Aroclor 1260
7.580	13501	13797	1.022	0.05	
7.699	13561	12109	0.893	0.05	
7.725	56687	37193	0.656	0.22	
7.897	21148	14775	0.699	0.08	8 Aroclor 1260
7.952	18786	13416	0.714	0.07	
8.045	16875	12160	0.721	0.06	
8.273	85400	77789	0.911	0.33	
8.373	28354	19838	0.700	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.570	10673422	9216013	0.863	42.73	$ 12 Decachlorobiphenyl
8.943	16865	9017	0.535	0.06	
9.167	101374	83115	0.820	0.40	
	25206109	22893679		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218021.D
Lab Smp Id: 40151612011 Client Smp ID: FD1-170613-01-YP-10
Inj Date : 22-MAR-2018 17:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612011,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	10518395	0.08531	43			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

---

8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test. CO

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

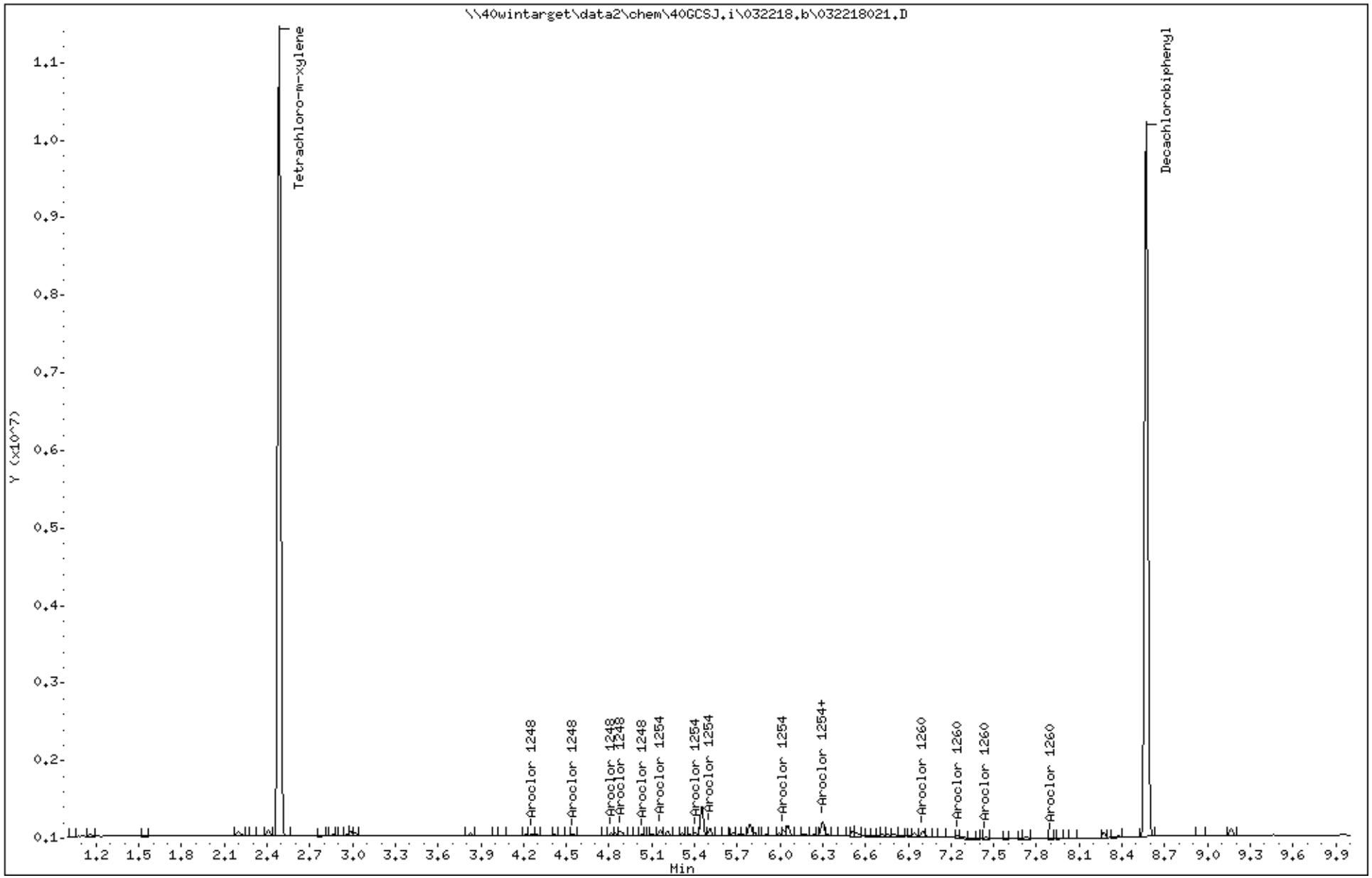
8.569	8.571	-0.002	10673422	0.09742	49			

Review Codes Legend

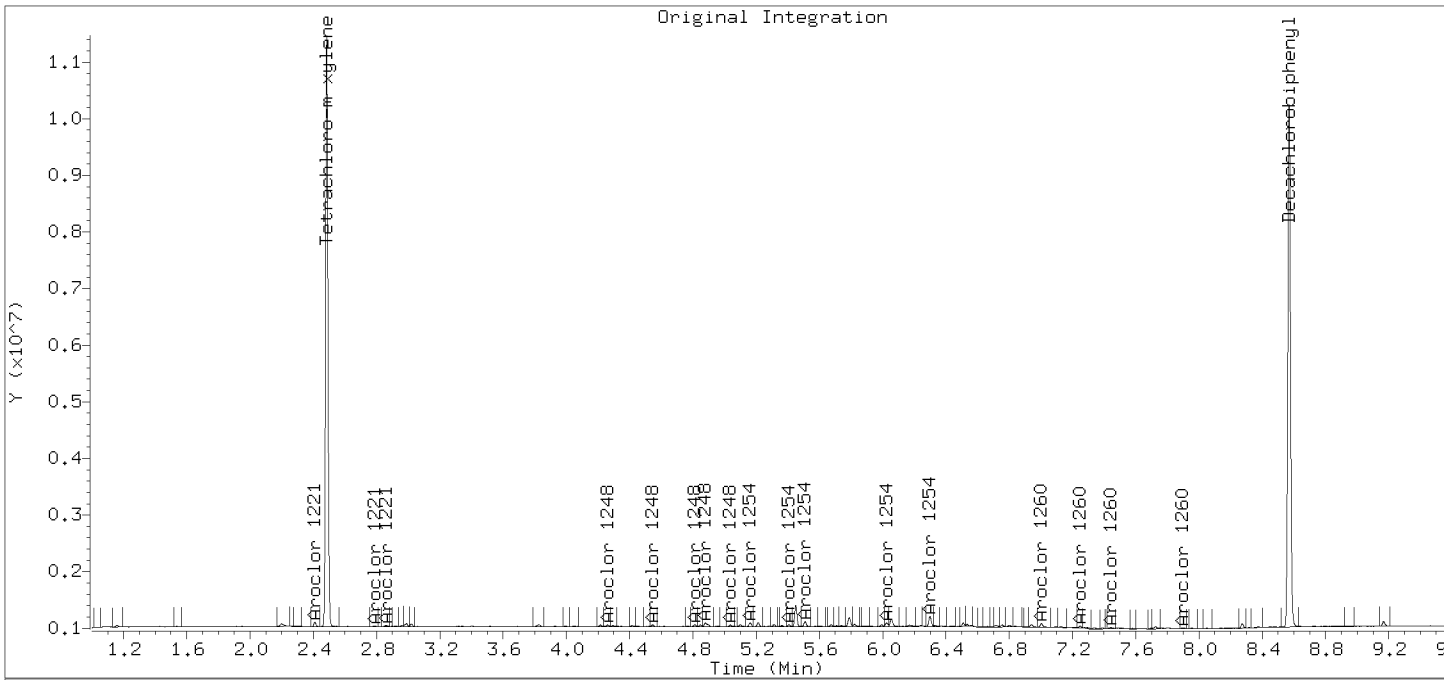
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

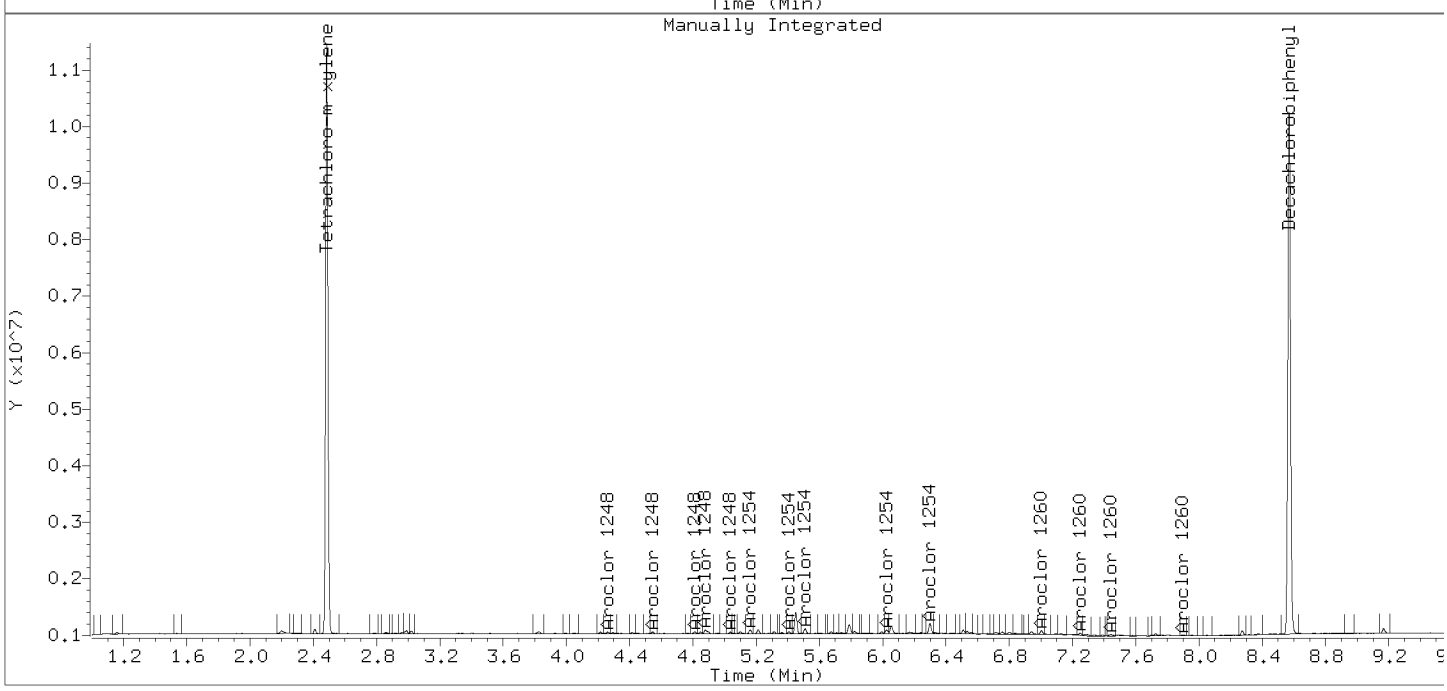
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218021.D
Date : 22-MAR-2018 17:40
Client ID: FD1-170613-01-YP-10
Sample Info: 40151612011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 17:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612011





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	31552	0	CO
Aroclor 1248	31552	0	CO
Aroclor 1248	31552	0	CO
Aroclor 1248	31552	0	CO
Aroclor 1248	31552	0	CO
Aroclor 1254	74861	0	BA
Aroclor 1254	74861	0	BA
Aroclor 1254	74861	0	BA
Aroclor 1254	74861	0	BA
Aroclor 1254	74861	0	BA
Aroclor 1260	205847	0	CO
Aroclor 1260	205847	0	CO
Aroclor 1260	205847	0	CO
Aroclor 1260	205847	0	CO
Aroclor 1260	205847	0	CO
Tetrachloro-m-xylene	10518395	10518395	
Decachlorobiphenyl	10673422	10673422	

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SAMPLE NO.

FD1-170613-01-YP-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612012
Date Analyzed: 03/22/2018 17:56
Lab File ID: 032218.B\032218022.D
Initial wt/vol: 10.0322 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\032218.b\032218022.D
Lab Smp Id: 40151612012 Client Smp ID: FD1-170613-01-YP-09
Inj Date : 22-MAR-2018 17:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612012,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.032	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.036	16687	10445	0.626	0.06		
1.157	37271	31767	0.852	0.14		
1.429	13560	9782	0.721	0.05		
1.540	12337	10034	0.813	0.04		
1.730	10173	8040	0.790	0.03		
2.198	156225	72839	0.466	0.60		
2.293	16430	13046	0.794	0.06		
2.409	94401	90226	0.956	0.36		
2.484	11018820	10648280	0.966	43.35	$ 2 Tetrachloro-m-xylene	
2.788	25051	17945	0.716	0.09		
2.857	17844	15256	0.855	0.06		
2.921	13797	10992	0.797	0.05		
2.990	93626	54191	0.579	0.36		
3.019	44789	43672	0.975	0.17		
3.825	56509	38535	0.682	0.22		
3.995	16947	15277	0.901	0.06		
4.215	46327	36724	0.793	0.18		
4.260	42209	39010	0.924	0.16	6 Aroclor 1248	CO
4.293	35541	23053	0.649	0.13		
4.416	33959	28948	0.852	0.13		
4.455	18252	16447	0.901	0.07		
4.545	45608	36829	0.808	0.17	6 Aroclor 1248	CO
4.765	24754	20785	0.840	0.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.813	44298	38798	0.876	0.17	6 Aroclor 1248
4.845	45353	41537	0.916	0.17	
4.878	117359	72501	0.618	0.45	6 Aroclor 1248
4.957	15727	13637	0.867	0.06	
5.035	39749	38543	0.970	0.15	6 Aroclor 1248
5.049	10874	13663	1.256	0.04	
5.099	50070	35076	0.701	0.19	
5.161	78987	70332	0.890	0.30	7 Aroclor 1254
5.213	84662	77216	0.912	0.32	
5.274	11247	10260	0.912	0.04	
5.313	43366	41933	0.967	0.16	
5.362	29295	23124	0.789	0.11	
5.407	44857	39872	0.889	0.17	7 Aroclor 1254
5.451	361956	353325	0.976	1.40	
5.509	111386	94699	0.850	0.43	7 Aroclor 1254
5.600	23125	15488	0.670	0.09	
5.674	40271	38348	0.952	0.15	
5.707	32024	21674	0.677	0.12	
5.740	28135	22749	0.809	0.10	
5.789	199503	159772	0.801	0.77	
5.820	63688	42356	0.665	0.24	
5.888	34129	21236	0.622	0.13	
5.992	40036	37249	0.930	0.15	
6.023	90753	82363	0.908	0.35	7 Aroclor 1254
6.055	166232	137522	0.827	0.64	
6.168	46709	26174	0.560	0.18	
6.227	11435	14906	1.304	0.04	
6.240	29154	22224	0.762	0.11	
6.297	224267	188467	0.840	0.87	8 Aroclor 1260
6.333	27665	22493	0.813	0.10	
6.428	21848	17437	0.798	0.08	
6.509	81088	72236	0.891	0.31	
6.535	52698	45191	0.858	0.20	
6.560	37652	30806	0.818	0.14	
6.615	10559	8655	0.820	0.04	
6.658	15739	11576	0.736	0.06	
6.716	46775	36165	0.773	0.18	
6.755	53489	40013	0.748	0.20	
6.799	49705	38593	0.776	0.19	
6.840	22782	17397	0.764	0.08	
6.941	58905	49247	0.836	0.22	
7.003	80942	70407	0.870	0.31	8 Aroclor 1260
7.029	7184	10721	1.492	0.02	
7.079	19213	10416	0.542	0.07	
7.124	21207	13301	0.627	0.08	
7.250	52294	43065	0.824	0.20	8 Aroclor 1260
7.282	50177	28074	0.560	0.19	
7.335	29753	19937	0.670	0.11	
7.388	32619	23619	0.724	0.12	
7.441	46180	32505	0.704	0.17	8 Aroclor 1260
7.487	31366	15565	0.496	0.12	
7.582	12864	12777	0.993	0.05	
7.690	16022	16987	1.060	0.06	
7.725	52434	36734	0.701	0.20	
7.766	24680	15372	0.623	0.09	
7.952	21656	12871	0.594	0.08	
8.046	16047	14738	0.918	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.273	87913	76108	0.866	0.34	
8.378	34880	22396	0.642	0.13	
8.447	15196	11090	0.730	0.05	
8.479	10401	9883	0.950	0.04	
8.569	10398544	8971882	0.863	40.49	$ 12 Decachlorobiphenyl
9.166	111873	98057	0.877	0.43	
9.468	17384	10816	0.622	0.06	
	25679492	23054297		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218022.D
Lab Smp Id: 40151612012 Client Smp ID: FD1-170613-01-YP-09
Inj Date : 22-MAR-2018 17:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612012,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.032	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	11018819	0.08937	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

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

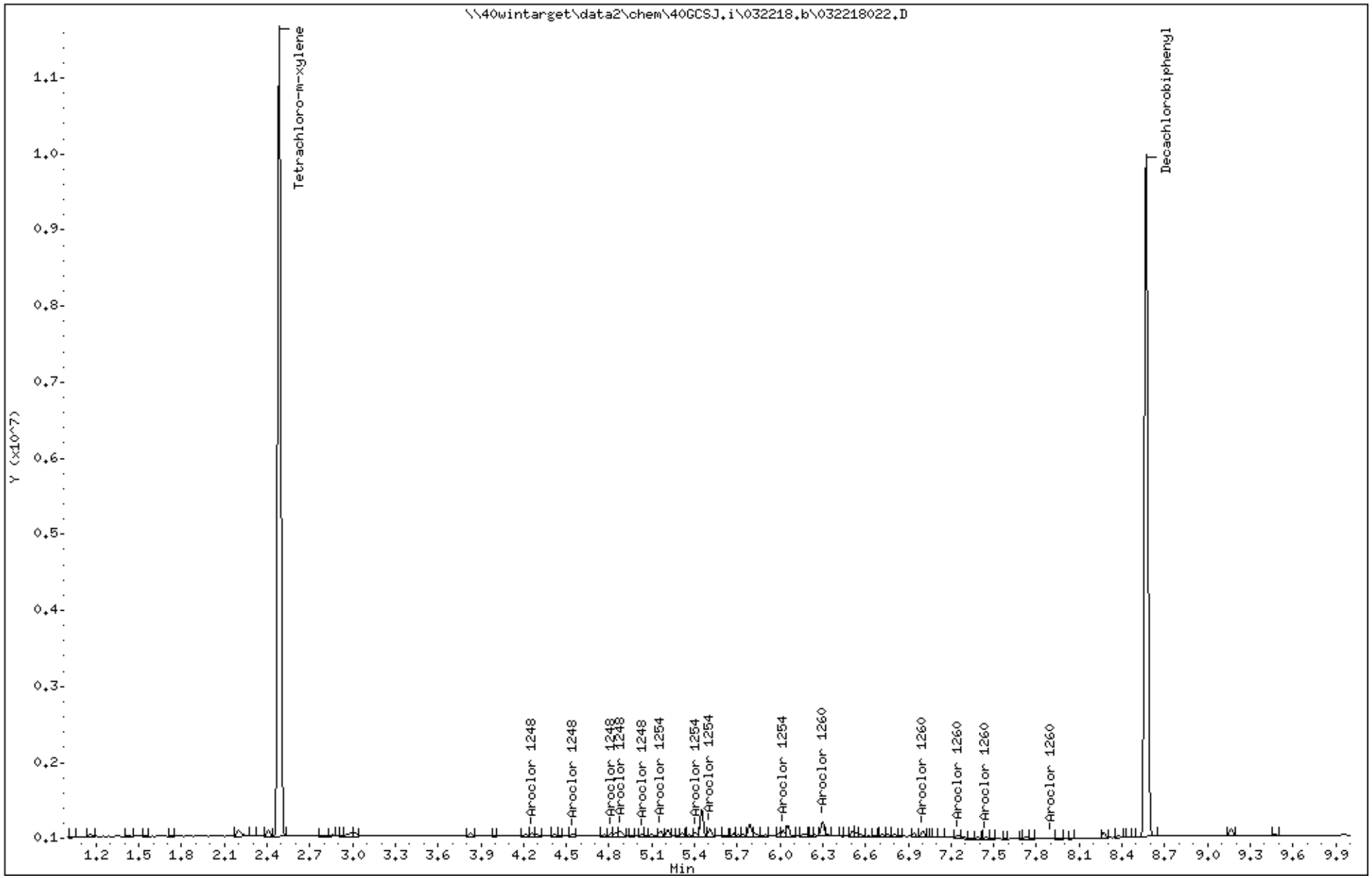
8.569	8.571	-0.002	10398543	0.09491	47			

Review Codes Legend

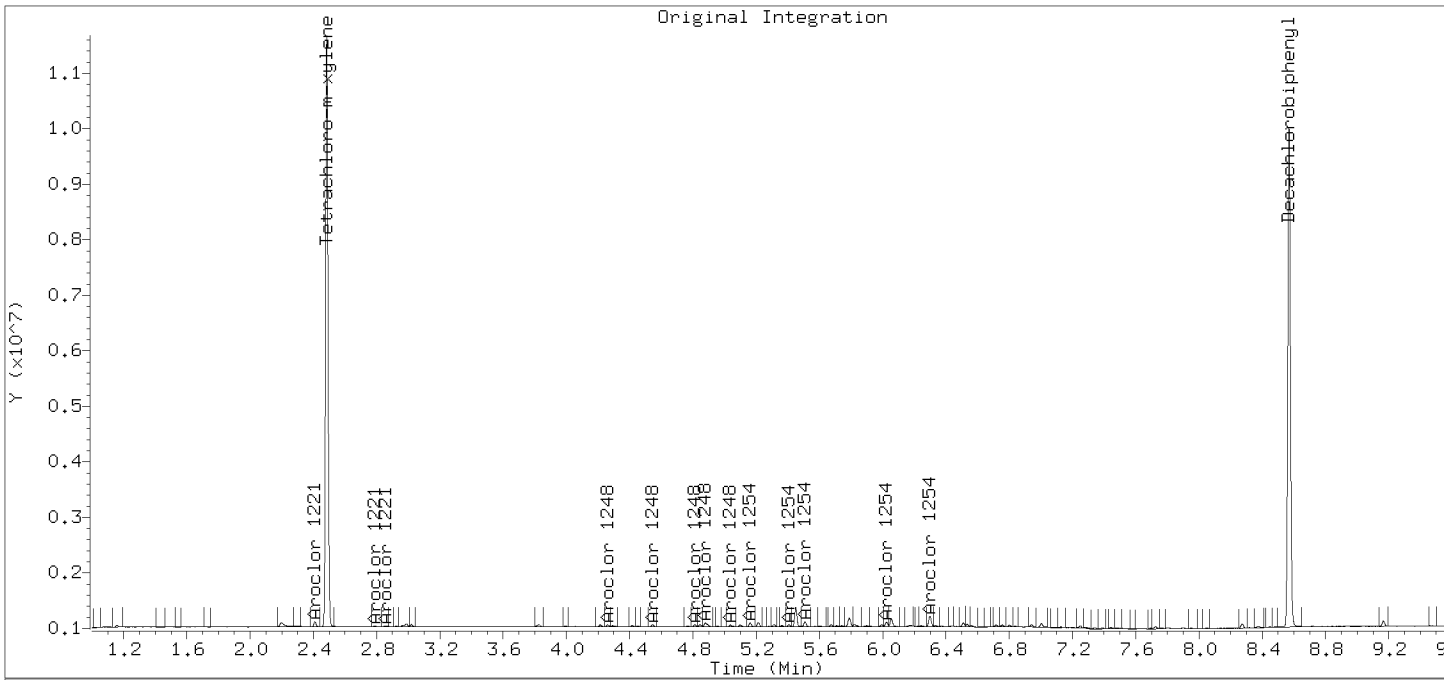
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

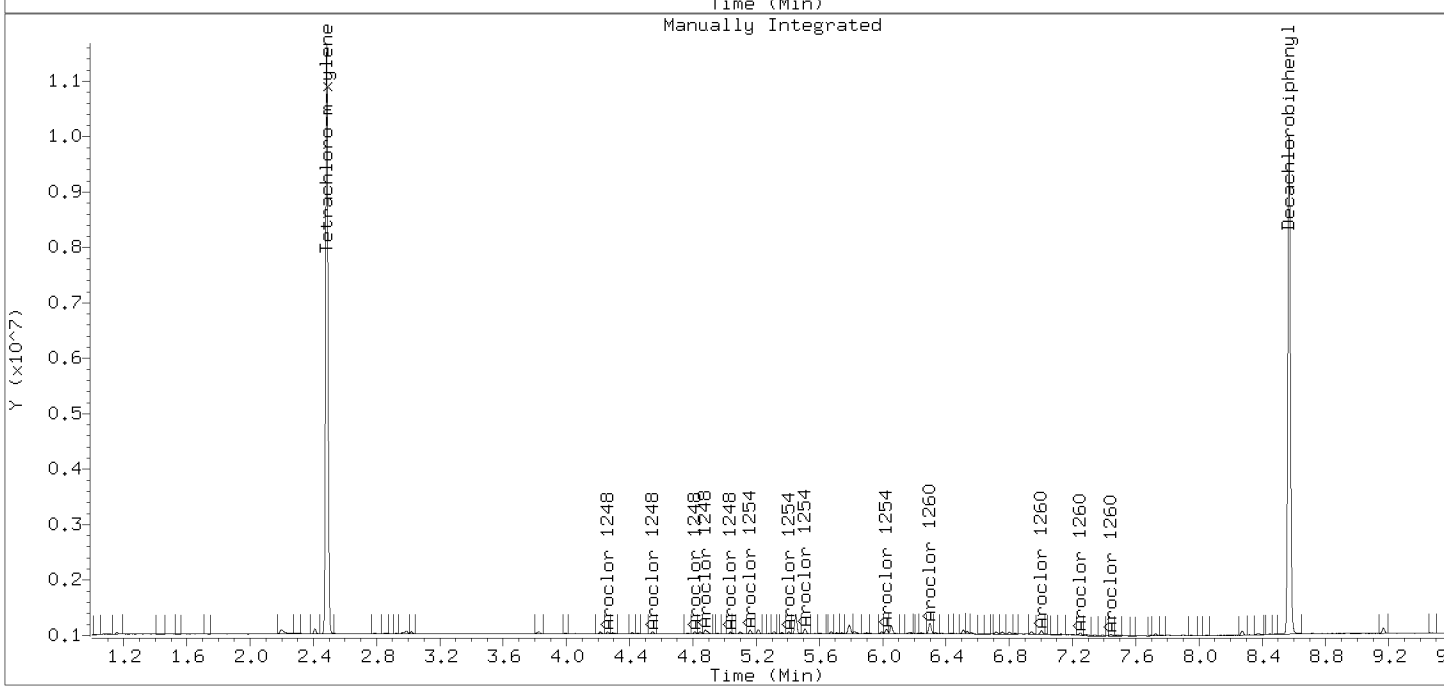
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218022.D
Date : 22-MAR-2018 17:56
Client ID: FD1-170613-01-YP-09
Sample Info: 40151612012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 17:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612012





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	39490	0	CO
Aroclor 1248	39490	0	CO
Aroclor 1248	39490	0	CO
Aroclor 1248	39490	0	CO
Aroclor 1248	39490	0	CO
Aroclor 1254	76157	0	BA
Aroclor 1254	76157	0	BA
Aroclor 1254	76157	0	BA
Aroclor 1254	76157	0	BA
Aroclor 1254	76157	0	BA
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	11018819	11018819	
Decachlorobiphenyl	10398543	10398543	

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SAMPLE NO.

FD1-170613-01-YP-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612013
Date Analyzed: 03/22/2018 18:11
Lab File ID: 032218.B\032218023.D
Initial wt/vol: 10.0303 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\032218.b\032218023.D
Lab Smp Id: 40151612013 Client Smp ID: FD1-170613-01-YP-08
Inj Date : 22-MAR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612013,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.037	13469	10124	0.752	0.05		
1.067	14195	10916	0.769	0.05		
1.096	9897	7691	0.777	0.03		
1.155	30720	23095	0.752	0.11		
1.429	13090	12116	0.926	0.05		
1.537	14190	9789	0.690	0.05		
2.199	91419	54097	0.592	0.35		
2.292	26784	25042	0.935	0.10		
2.409	60512	57073	0.943	0.23		
2.484	11416808	11333575	0.993	44.88	$ 2 Tetrachloro-m-xylene	
2.786	22675	17804	0.785	0.08		
2.859	26311	18931	0.719	0.10		
2.916	11387	9095	0.799	0.04		
2.974	66441	26317	0.396	0.25		
3.020	42406	39339	0.928	0.16		
3.400	19162	11659	0.608	0.07		
3.692	12987	10929	0.842	0.05		
3.825	51577	33652	0.652	0.20		
3.994	14187	11697	0.824	0.05		
4.213	34860	30054	0.862	0.13		
4.260	31366	29563	0.943	0.12	6 Aroclor 1248	BA
4.289	31834	22888	0.719	0.12		
4.417	27880	24386	0.875	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.453	17112	14930	0.873	0.06	
4.545	32311	30268	0.937	0.12	6 Aroclor 1248
4.766	27894	25217	0.904	0.10	
4.812	35071	32693	0.932	0.13	6 Aroclor 1248
4.847	38378	34468	0.898	0.14	
4.878	94054	58067	0.617	0.36	6 Aroclor 1248
4.959	13852	11608	0.838	0.05	
5.034	32711	28473	0.870	0.12	6 Aroclor 1248
5.099	40263	31383	0.779	0.15	
5.163	77351	68244	0.882	0.30	7 Aroclor 1254
5.214	74200	65995	0.889	0.28	
5.284	10137	10997	1.085	0.03	
5.314	37894	35711	0.942	0.14	
5.363	31684	21915	0.692	0.12	
5.408	38662	36506	0.944	0.15	7 Aroclor 1254
5.451	324087	312954	0.966	1.26	
5.509	95367	78863	0.827	0.37	7 Aroclor 1254
5.604	16690	13960	0.836	0.06	
5.673	40955	37812	0.923	0.15	
5.709	32614	18776	0.576	0.12	
5.743	19426	19776	1.018	0.07	
5.790	186783	150077	0.803	0.72	
5.820	55454	32551	0.587	0.21	
5.896	20460	17134	0.837	0.07	
5.993	44101	39686	0.900	0.17	
6.024	76487	68751	0.899	0.29	7 Aroclor 1254
6.055	185820	156792	0.844	0.72	
6.168	55378	31107	0.562	0.21	
6.242	30580	20844	0.682	0.11	
6.298	217384	184040	0.847	0.84	7 Aroclor 1254
6.332	26634	21318	0.800	0.10	
6.373	14321	10053	0.702	0.05	
6.432	24002	17594	0.733	0.09	
6.509	87913	76529	0.871	0.34	
6.535	52237	44343	0.849	0.20	
6.557	50163	32757	0.653	0.19	
6.617	12568	11117	0.885	0.04	
6.659	21946	15063	0.686	0.08	
6.714	60655	40018	0.660	0.23	
6.756	64659	43440	0.672	0.25	
6.799	52406	37884	0.723	0.20	
6.843	33834	22466	0.664	0.13	
6.941	69458	47637	0.686	0.27	
7.004	106600	85870	0.806	0.41	8 Aroclor 1260
7.036	22031	18373	0.834	0.08	
7.089	18734	12919	0.690	0.07	
7.127	25397	14983	0.590	0.09	
7.248	60483	47572	0.787	0.23	8 Aroclor 1260
7.282	58182	32152	0.553	0.22	
7.339	37466	22394	0.598	0.14	
7.391	18277	18609	1.018	0.07	
7.442	41890	29246	0.698	0.16	8 Aroclor 1260
7.581	18396	15583	0.847	0.07	
7.619	16507	10006	0.606	0.06	
7.693	18638	20395	1.094	0.07	
7.727	62964	38896	0.618	0.24	
7.759	20042	13530	0.675	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.802	35106	16979	0.484	0.13	
7.898	26855	17937	0.668	0.10	8 Aroclor 1260
8.047	16915	11531	0.682	0.06	
8.137	12513	8185	0.654	0.04	
8.274	84269	72162	0.856	0.32	
8.375	29133	19442	0.667	0.11	
8.570	10183742	9078753	0.891	39.63	$ 12 Decachlorobiphenyl
9.166	122438	107446	0.878	0.47	
	25694691	23652612		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218023.D
Lab Smp Id: 40151612013 Client Smp ID: FD1-170613-01-YP-08
Inj Date : 22-MAR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612013,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	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	11416808	0.09260	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).

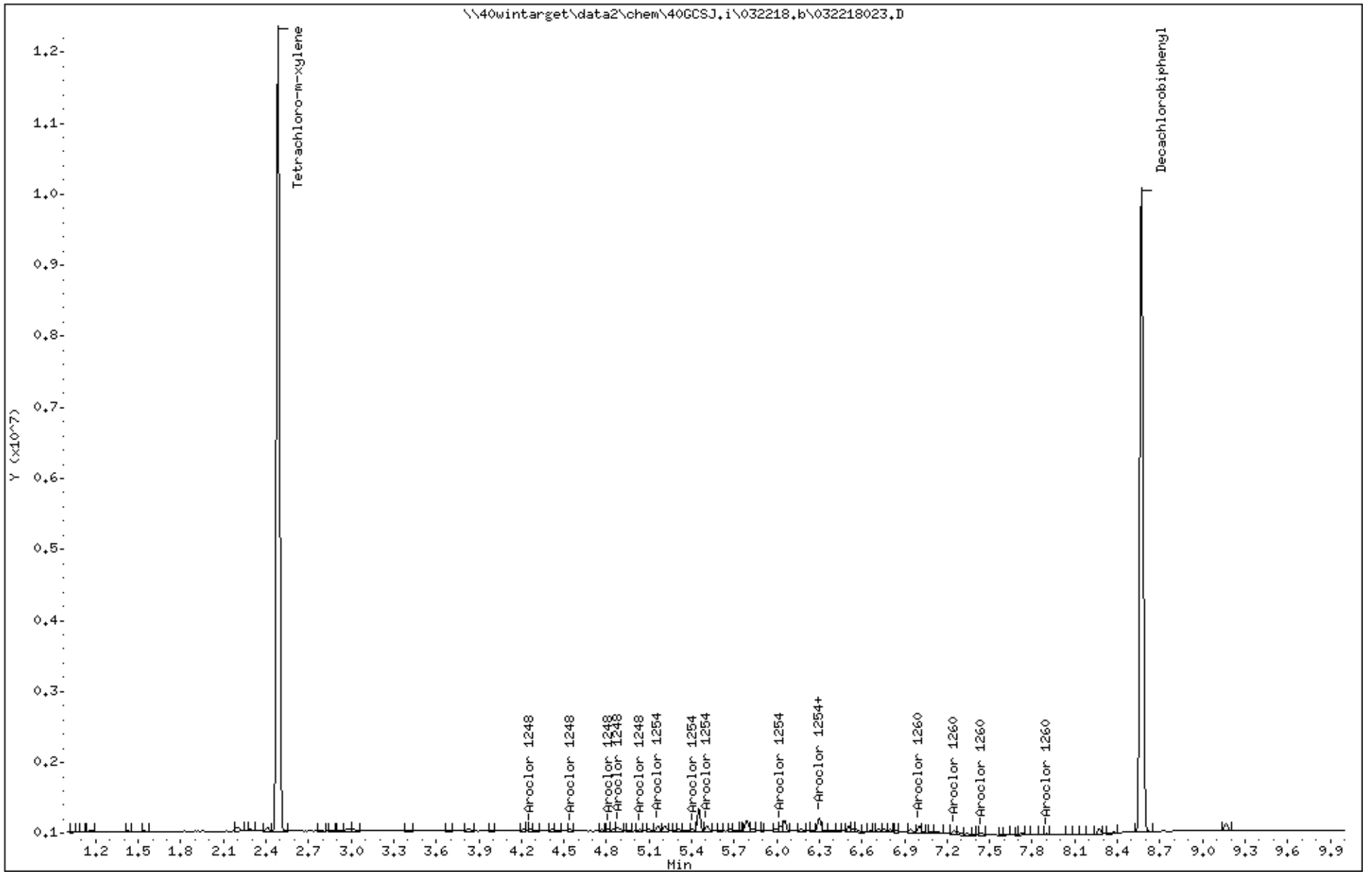
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								BA
7 Aroclor 1254					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			
8.569	8.571	-0.002	10183742	0.09295	46			

Review Codes Legend

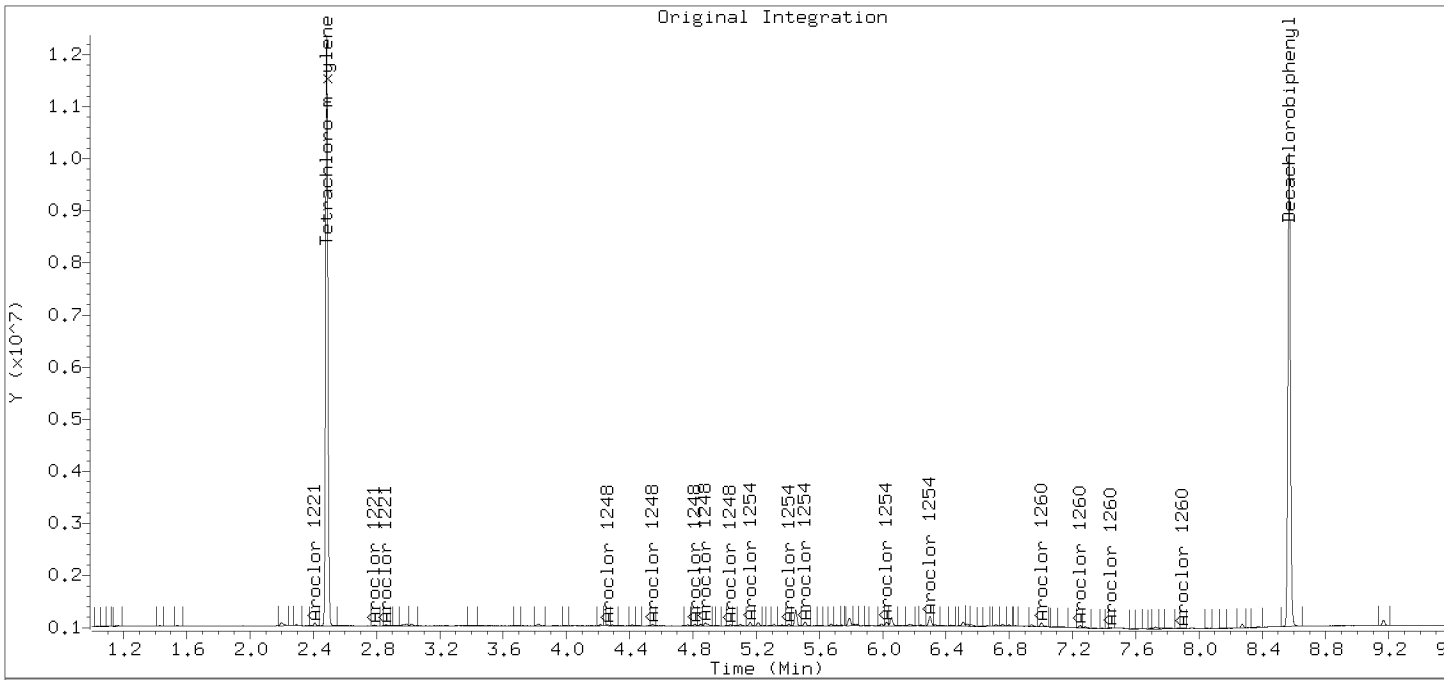
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

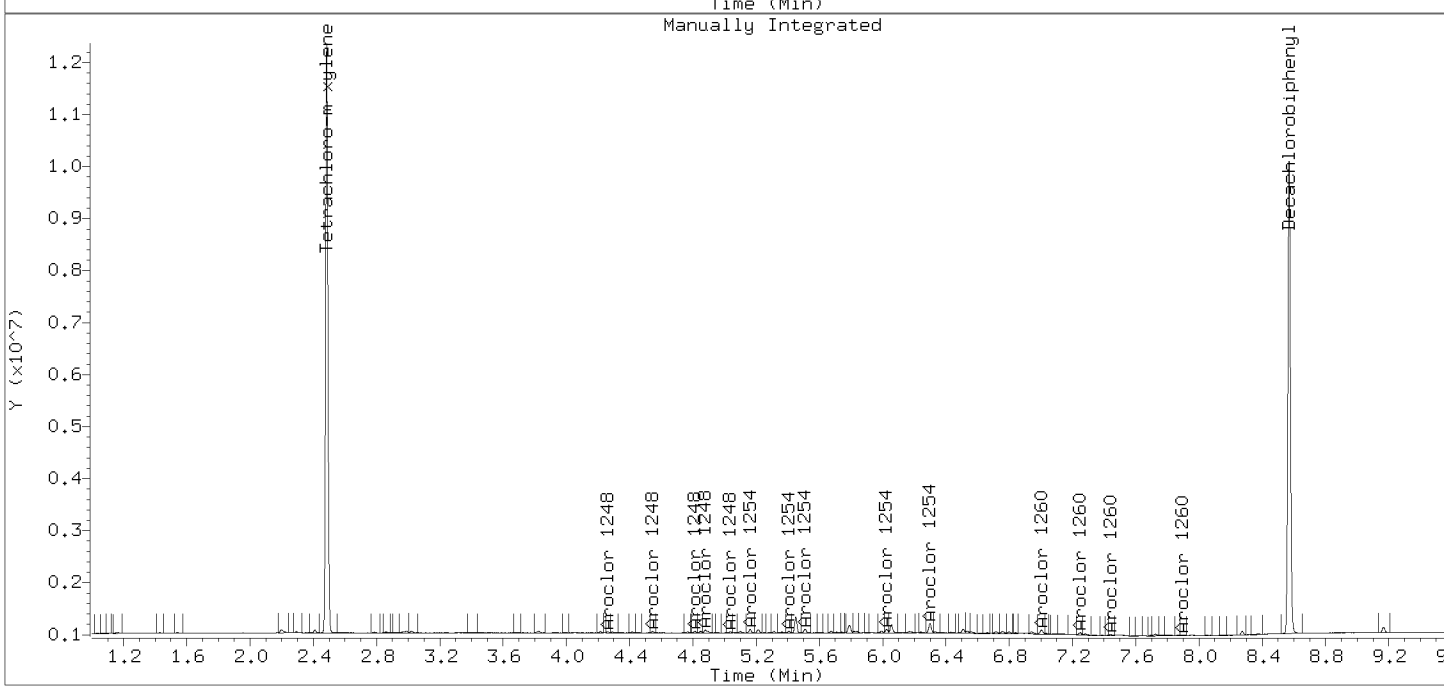
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218023.D
Date : 22-MAR-2018 18:11
Client ID: FD1-170613-01-YP-08
Sample Info: 40151612013,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 18:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612013





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	21461	0	BA
Aroclor 1248	21461	0	BA
Aroclor 1248	21461	0	BA
Aroclor 1248	21461	0	BA
Aroclor 1248	21461	0	BA
Aroclor 1254	76176	0	BA
Aroclor 1254	76176	0	BA
Aroclor 1254	76176	0	BA
Aroclor 1254	76176	0	BA
Aroclor 1254	76176	0	BA
Aroclor 1260	215460	0	CO
Aroclor 1260	215460	0	CO
Aroclor 1260	215460	0	CO
Aroclor 1260	215460	0	CO
Aroclor 1260	215460	0	CO
Tetrachloro-m-xylene	11416808	11416808	
Decachlorobiphenyl	10183742	10183742	

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SAMPLE NO.

FD1-170613-01-YP-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: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612014
Date Analyzed: 03/22/2018 18:27
Lab File ID: 032218.B\032218024.D
Initial wt/vol: 10.0281 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)	17.7	J
11097-69-1	PCB-1254 (Aroclor 1254)	14.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	32.6	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218024.D
Lab Smp Id: 40151612014 Client Smp ID: FD1-170613-01-YP-07
Inj Date : 22-MAR-2018 18:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612014,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.037	10439	8243	0.790	0.03		
1.158	36801	33576	0.912	0.13		
1.181	32103	20461	0.637	0.12		
1.538	10872	10164	0.935	0.04		
1.951	14154	7656	0.541	0.05		
2.010	21217	11956	0.564	0.07		
2.199	104606	55970	0.535	0.39		
2.409	85221	81494	0.956	0.32		
2.484	10640918	10367559	0.974	40.48	$ 2 Tetrachloro-m-xylene	
2.786	20311	17360	0.855	0.07		
2.858	25106	17840	0.711	0.09		
2.988	95964	55558	0.579	0.36		
3.020	44546	42868	0.962	0.16		
3.827	79839	58924	0.738	0.30		
3.992	24912	19373	0.778	0.09		
4.055	23454	14672	0.626	0.08		
4.215	72822	62664	0.861	0.27		
4.261	78494	71382	0.909	0.29	6 Aroclor 1248	CO
4.293	57597	39873	0.692	0.21		
4.346	14191	9362	0.660	0.05		
4.415	55717	47336	0.850	0.20		
4.453	34838	32212	0.925	0.13		
4.546	84438	72946	0.864	0.31	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.765	22810	20820	0.913	0.08	
4.811	93627	85479	0.913	0.35	6 Aroclor 1248
4.847	94384	91645	0.971	0.35	
4.879	251178	174547	0.695	0.94	6 Aroclor 1248
4.957	30074	22877	0.761	0.11	
5.036	100477	93351	0.929	0.37	6 Aroclor 1248
5.059	11786	14913	1.265	0.04	
5.100	66502	55732	0.838	0.25	
5.160	137953	123075	0.892	0.51	7 Aroclor 1254
5.213	134767	120532	0.894	0.50	
5.284	16966	15990	0.942	0.06	
5.312	67337	64419	0.957	0.25	
5.365	47230	36962	0.783	0.17	
5.408	77621	70720	0.911	0.29	7 Aroclor 1254
5.451	723334	723326	1.000	2.72	
5.509	180370	162384	0.900	0.67	7 Aroclor 1254
5.603	34687	27187	0.784	0.13	
5.673	62349	57085	0.916	0.23	
5.708	41601	32373	0.778	0.15	
5.740	47449	33043	0.696	0.17	
5.788	316452	261794	0.827	1.19	
5.823	78924	61017	0.773	0.29	
5.898	49016	28758	0.587	0.18	
5.931	13999	13425	0.959	0.05	
5.991	54943	53308	0.970	0.20	
6.024	158360	140631	0.888	0.59	7 Aroclor 1254
6.056	251603	220311	0.876	0.94	
6.168	69641	41221	0.592	0.26	
6.227	17831	19568	1.097	0.06	
6.245	36608	27457	0.750	0.13	
6.298	315491	264793	0.839	1.18	7 Aroclor 1254
6.335	36085	33355	0.924	0.13	
6.373	16853	12632	0.750	0.06	
6.432	40999	23649	0.577	0.15	
6.509	107311	101457	0.945	0.40	
6.534	68958	64966	0.942	0.25	
6.558	54169	41431	0.765	0.20	
6.661	21336	14966	0.701	0.08	
6.717	66284	49410	0.745	0.24	
6.758	70035	51565	0.736	0.26	
6.800	62932	49353	0.784	0.23	
6.841	31175	21996	0.706	0.11	
6.942	69807	55873	0.800	0.26	
7.004	107883	94378	0.875	0.40	8 Aroclor 1260
7.031	13686	15975	1.167	0.05	
7.129	27241	14125	0.519	0.10	
7.248	66339	53881	0.812	0.24	8 Aroclor 1260
7.282	54430	31739	0.583	0.20	
7.341	32397	18959	0.585	0.12	
7.388	32943	30968	0.940	0.12	
7.442	56344	37526	0.666	0.21	8 Aroclor 1260
7.580	12723	12049	0.947	0.04	
7.690	13162	15070	1.145	0.04	
7.727	46348	34297	0.740	0.17	
7.763	19082	13216	0.693	0.07	
7.795	23438	15290	0.652	0.08	
7.899	27845	18184	0.653	0.10	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.047	17103	13737	0.803	0.06	
8.271	81838	72993	0.892	0.30	
8.374	25225	22143	0.878	0.09	
8.569	9905159	8588170	0.867	37.27	$ 12 Decachlorobiphenyl
8.939	11147	9553	0.857	0.04	
9.167	75445	68655	0.910	0.28	
	26569646	24019753		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218024.D
Lab Smp Id: 40151612014 Client Smp ID: FD1-170613-01-YP-07
Inj Date : 22-MAR-2018 18:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612014,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.028	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	10640917	0.08630	43			
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			
4.260	4.261	-0.001	78493	0.03350	17	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	84437	0.02034	10	0.00- 20.00	107.57	CO
4.811	4.812	-0.001	93627	0.04612	23	0.00- 20.00	119.28	CO
4.878	4.879	-0.001	251178	0.04986	25	0.00- 20.00	320.00	CO
5.036	5.038	-0.002	100476	0.02800	14	0.00- 20.00	128.01	CO
Average of Peak Concentrations =					18			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	137952	0.02635	13	0.00- 20.00	100.00(M)	BA
5.408	5.408	0.000	77620	0.01805	9.0	0.00- 20.00	56.27	BA
5.508	5.510	-0.002	180369	0.02323	12	0.00- 20.00	130.75	BA
6.024	6.027	-0.003	158360	0.03252	16	0.00- 20.00	114.79	BA
6.298	6.299	-0.001	315491	0.04848	24	0.00- 20.00	228.70	BA
Average of Peak Concentrations =					15			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9905158	0.09041	45			

QC Flag Legend

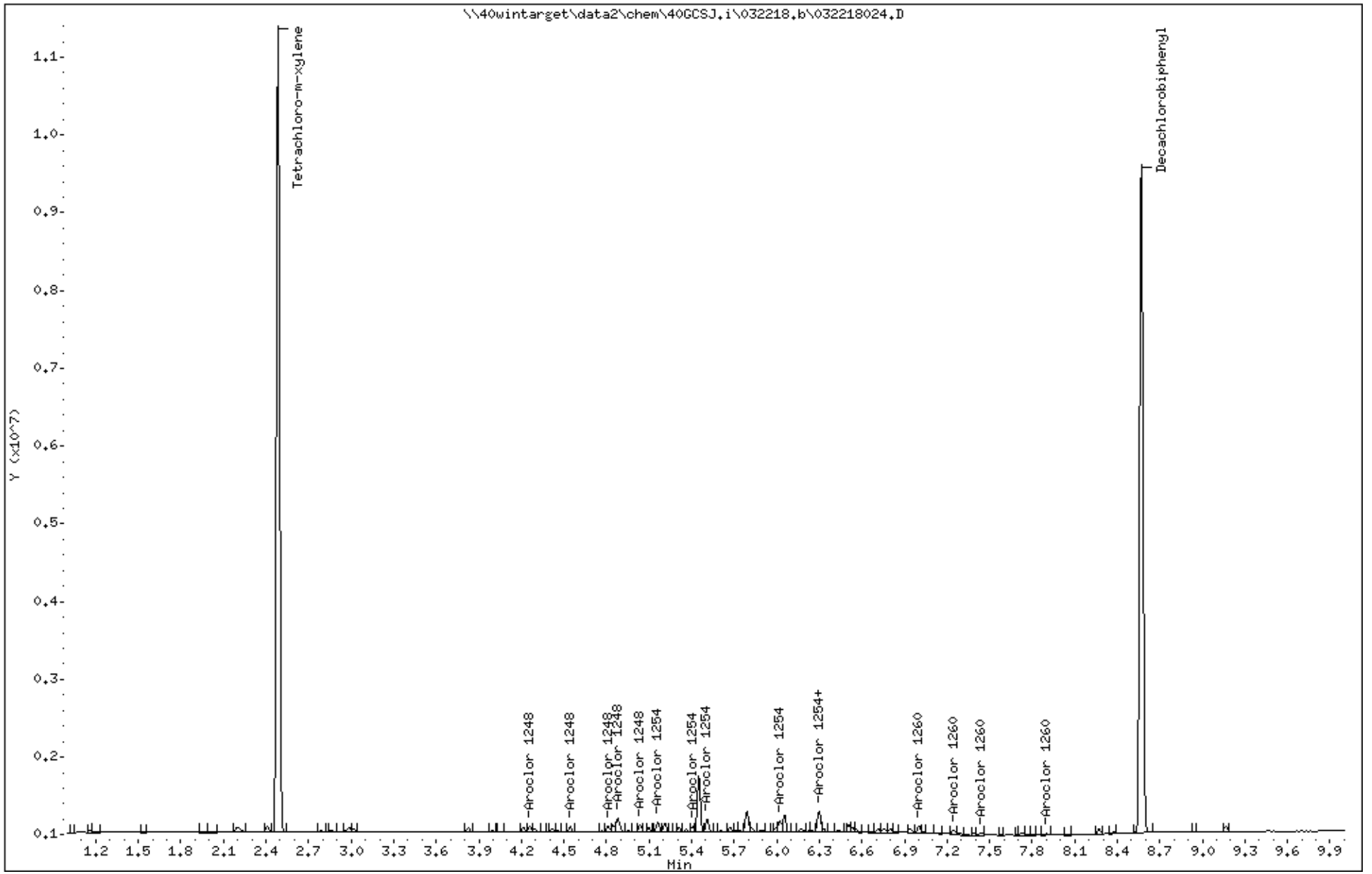
M - Compound response manually integrated.

Review Codes Legend

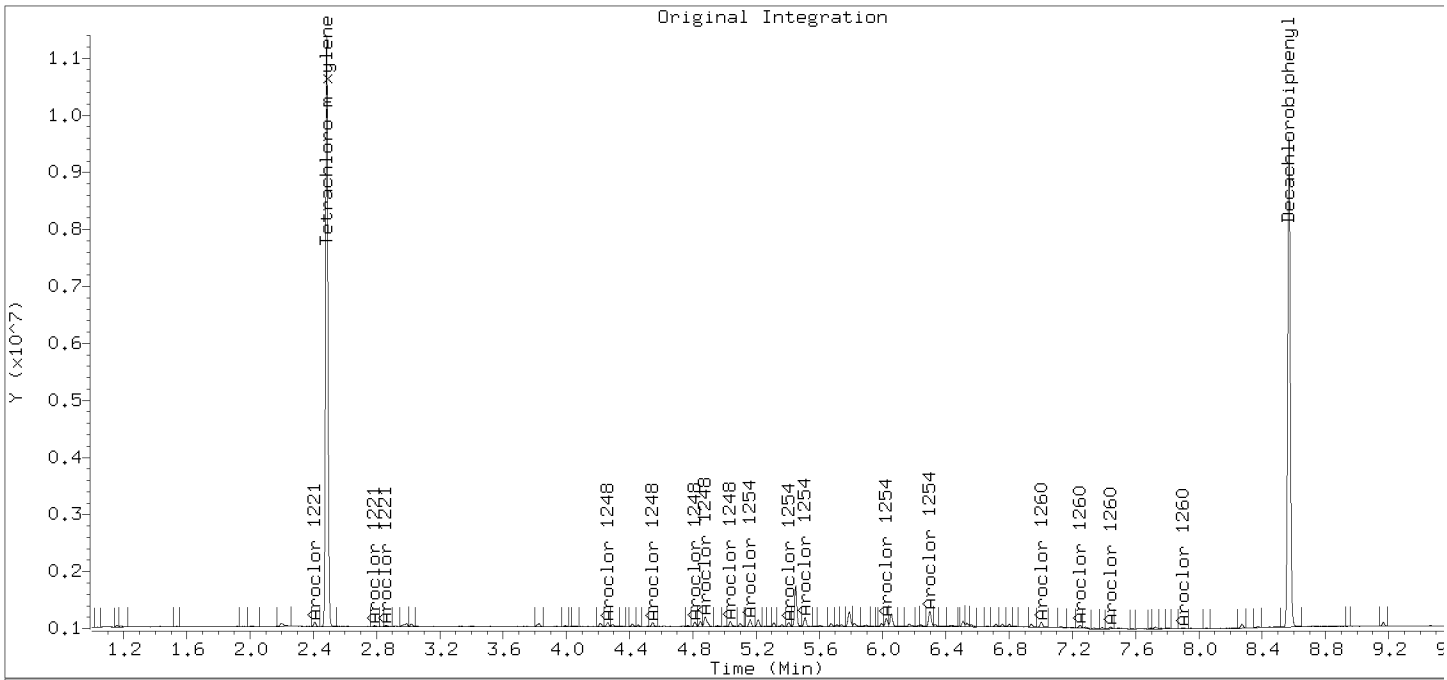
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

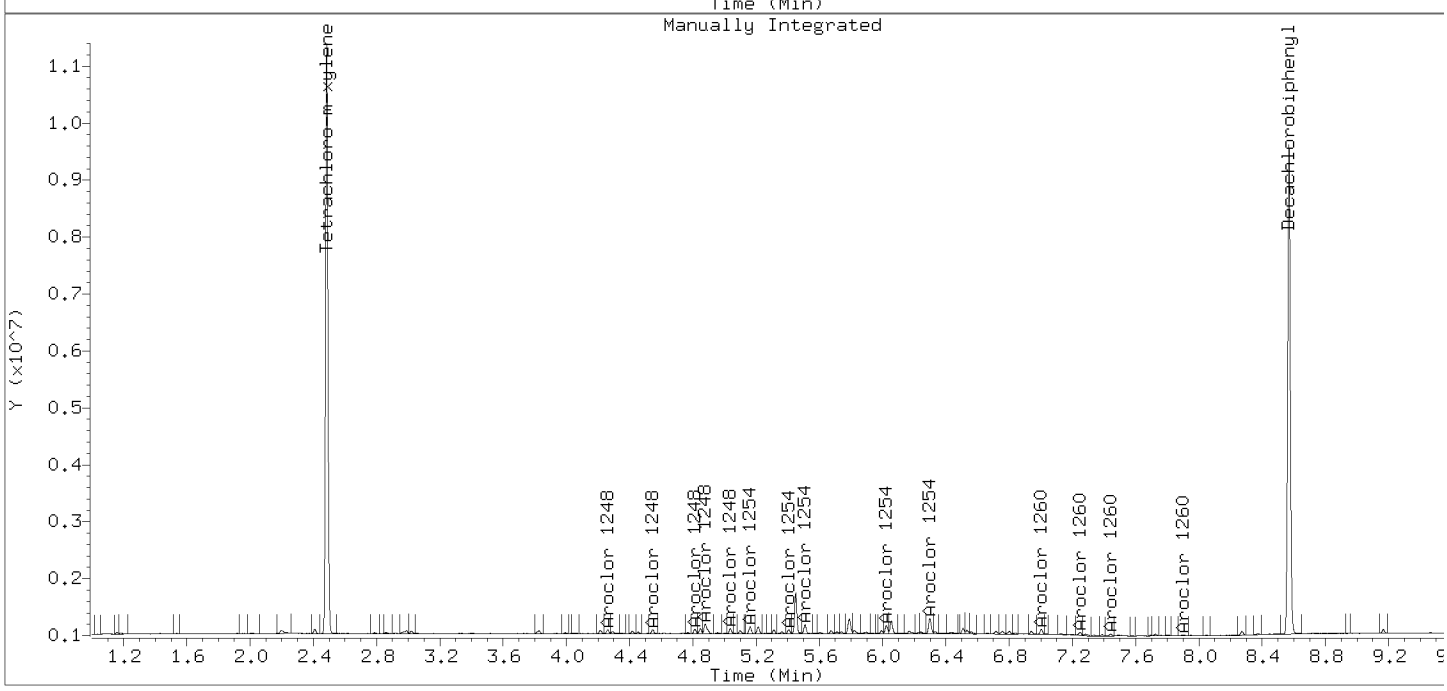
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218024.D
Date : 22-MAR-2018 18:27
Client ID: FD1-170613-01-YP-07
Sample Info: 40151612014,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 18:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612014





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	72425	78493	CO
Aroclor 1248	72425	78493	CO
Aroclor 1248	72425	78493	CO
Aroclor 1248	72425	78493	CO
Aroclor 1248	72425	78493	CO
Aroclor 1254	131464	137952	BA
Aroclor 1254	131464	137952	BA
Aroclor 1254	131464	137952	BA
Aroclor 1254	131464	137952	BA
Aroclor 1254	131464	137952	BA
Aroclor 1260	313465	0	CO
Aroclor 1260	313465	0	CO
Aroclor 1260	313465	0	CO
Aroclor 1260	313465	0	CO
Aroclor 1260	313465	0	CO
Tetrachloro-m-xylene	10640917	10640917	
Decachlorobiphenyl	9905158	9905158	

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SAMPLE NO.

FD1-170613-01-YP-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612015
Date Analyzed: 03/22/2018 18:43
Lab File ID: 032218.B\032218025.D
Initial wt/vol: 9.9768 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)	45.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	22.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	67.8	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218025.D
Lab Smp Id: 40151612015 Client Smp ID: FD1-170613-01-YP-06
Inj Date : 22-MAR-2018 18:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612015,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	13478	8819	0.654	0.04		
1.096	9705	6440	0.664	0.03		
1.158	28600	28524	0.997	0.09		
1.431	12880	10515	0.816	0.04		
1.537	9612	8834	0.919	0.03		
1.951	11845	9227	0.779	0.04		
2.197	50601	36269	0.717	0.17		
2.290	10337	10712	1.036	0.03		
2.410	81948	79529	0.970	0.28		
2.485	10041361	9844426	0.980	35.56	$ 2 Tetrachloro-m-xylene	
2.785	17396	15556	0.894	0.06		
2.860	29490	20104	0.682	0.10		
2.917	11098	10281	0.926	0.03		
2.975	37966	32897	0.866	0.13		
2.989	50964	49109	0.964	0.17		
3.019	37085	36699	0.990	0.12		
3.320	15080	16015	1.062	0.05	3 Aroclor 1242	BA
3.346	10791	11674	1.082	0.03		
3.433	12362	8959	0.725	0.04		
3.512	11260	9280	0.824	0.03	3 Aroclor 1242	BA
3.828	222182	164400	0.740	0.77	3 Aroclor 1242	BA
3.930	34953	21514	0.616	0.12	3 Aroclor 1242	BA
3.994	42504	40751	0.959	0.14	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.060	26840	20918	0.779	0.09	
4.215	175599	159054	0.906	0.61	
4.261	187406	179369	0.957	0.65	6 Aroclor 1248
4.293	148001	104987	0.709	0.51	
4.351	15133	10365	0.685	0.05	
4.417	143448	133122	0.928	0.50	
4.454	95132	86648	0.911	0.33	
4.545	229633	214092	0.932	0.80	6 Aroclor 1248
4.586	11574	11428	0.987	0.04	
4.616	33614	29013	0.863	0.11	
4.732	21475	14377	0.669	0.07	
4.766	67657	62631	0.926	0.23	
4.812	247437	237408	0.959	0.86	6 Aroclor 1248
4.848	214002	207067	0.968	0.74	
4.878	601191	471862	0.785	2.09	6 Aroclor 1248
4.955	50975	41227	0.809	0.17	
5.037	276626	255808	0.925	0.96	6 Aroclor 1248
5.099	124628	95799	0.769	0.43	
5.161	219954	200430	0.911	0.76	7 Aroclor 1254
5.214	232676	197799	0.850	0.81	
5.282	22988	21725	0.945	0.08	
5.312	81547	73017	0.895	0.28	
5.361	95259	75890	0.797	0.33	
5.406	147712	133356	0.903	0.51	7 Aroclor 1254
5.450	698278	663845	0.951	2.43	
5.508	310137	259805	0.838	1.08	7 Aroclor 1254
5.568	20529	12307	0.599	0.07	
5.604	60955	50095	0.822	0.21	
5.675	69522	60485	0.870	0.24	
5.708	48300	33919	0.702	0.16	
5.741	68732	51003	0.742	0.23	
5.789	459727	387221	0.842	1.60	
5.822	113430	66800	0.589	0.39	
5.889	62846	34245	0.545	0.21	
5.926	17693	15553	0.879	0.06	
5.994	67890	65239	0.961	0.23	
6.022	242920	218995	0.902	0.84	7 Aroclor 1254
6.054	285379	236814	0.830	0.99	
6.167	94173	47294	0.502	0.32	
6.241	55840	37299	0.668	0.19	
6.298	370042	314795	0.851	1.29	7 Aroclor 1254
6.331	47642	40519	0.850	0.16	
6.369	20581	15745	0.765	0.07	
6.434	39649	25720	0.649	0.13	
6.509	125380	111917	0.893	0.43	
6.534	76589	74538	0.973	0.26	
6.559	49939	41158	0.824	0.17	
6.662	17650	13862	0.785	0.06	
6.717	67758	52212	0.771	0.23	
6.753	74560	56366	0.756	0.26	
6.799	62494	52692	0.843	0.21	
6.835	29165	21979	0.754	0.10	
6.941	94485	78738	0.833	0.32	
7.003	125575	108869	0.867	0.43	8 Aroclor 1260
7.033	13417	16675	1.243	0.04	
7.098	18202	15558	0.855	0.06	
7.249	75461	64890	0.860	0.26	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.278	56326	33287	0.591	0.19	
7.340	29036	18870	0.650	0.10	
7.387	36088	31969	0.886	0.12	
7.442	63047	43592	0.691	0.22	8 Aroclor 1260
7.487	35262	20028	0.568	0.12	
7.527	26693	18163	0.680	0.09	
7.578	13386	12704	0.949	0.04	
7.662	9957	10971	1.102	0.03	
7.694	19417	19141	0.986	0.06	
7.726	47204	33783	0.716	0.16	
7.762	26412	17949	0.680	0.09	
7.799	32875	21864	0.665	0.11	
7.899	39723	24446	0.615	0.13	8 Aroclor 1260
7.951	30423	20530	0.675	0.10	
8.044	24145	20981	0.869	0.08	
8.273	79329	75924	0.957	0.27	
8.373	59098	33142	0.561	0.20	
8.447	25601	18061	0.705	0.08	
8.478	15664	14207	0.907	0.05	
8.570	9496551	8307953	0.875	33.14	$ 12 Decachlorobiphenyl
8.638	17501	14607	0.835	0.06	
8.717	16417	12572	0.766	0.05	
8.934	9887	9159	0.926	0.03	
9.165	184714	164134	0.889	0.64	
	28653696	25863115		100.000	

Total unknown % area = 19

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218025.D
Lab Smp Id: 40151612015 Client Smp ID: FD1-170613-01-YP-06
Inj Date : 22-MAR-2018 18:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612015,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	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	10041361	0.08144	41			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	187406	0.07999	40	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	229633	0.05533	28	0.00- 20.00	122.53	CO
4.812	4.812	0.000	247437	0.12189	61	0.00- 20.00	132.03	CO
4.878	4.879	-0.001	601190	0.11934	60	0.00- 20.00	320.80	CO
5.036	5.038	-0.002	276625	0.07709	39	0.00- 20.00	147.61	CO
Average of Peak Concentrations =					45			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	219953	0.04201	21	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	147711	0.03434	17	0.00- 20.00	67.16	BA
5.508	5.510	-0.002	310136	0.03993	20	0.00- 20.00	141.00	BA
6.022	6.027	-0.005	242920	0.04988	25	0.00- 20.00	110.44	BA
6.297	6.299	-0.002	370042	0.05687	28	0.00- 20.00	168.24	BA
Average of Peak Concentrations =					22			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9496550	0.08668	43			

QC Flag Legend

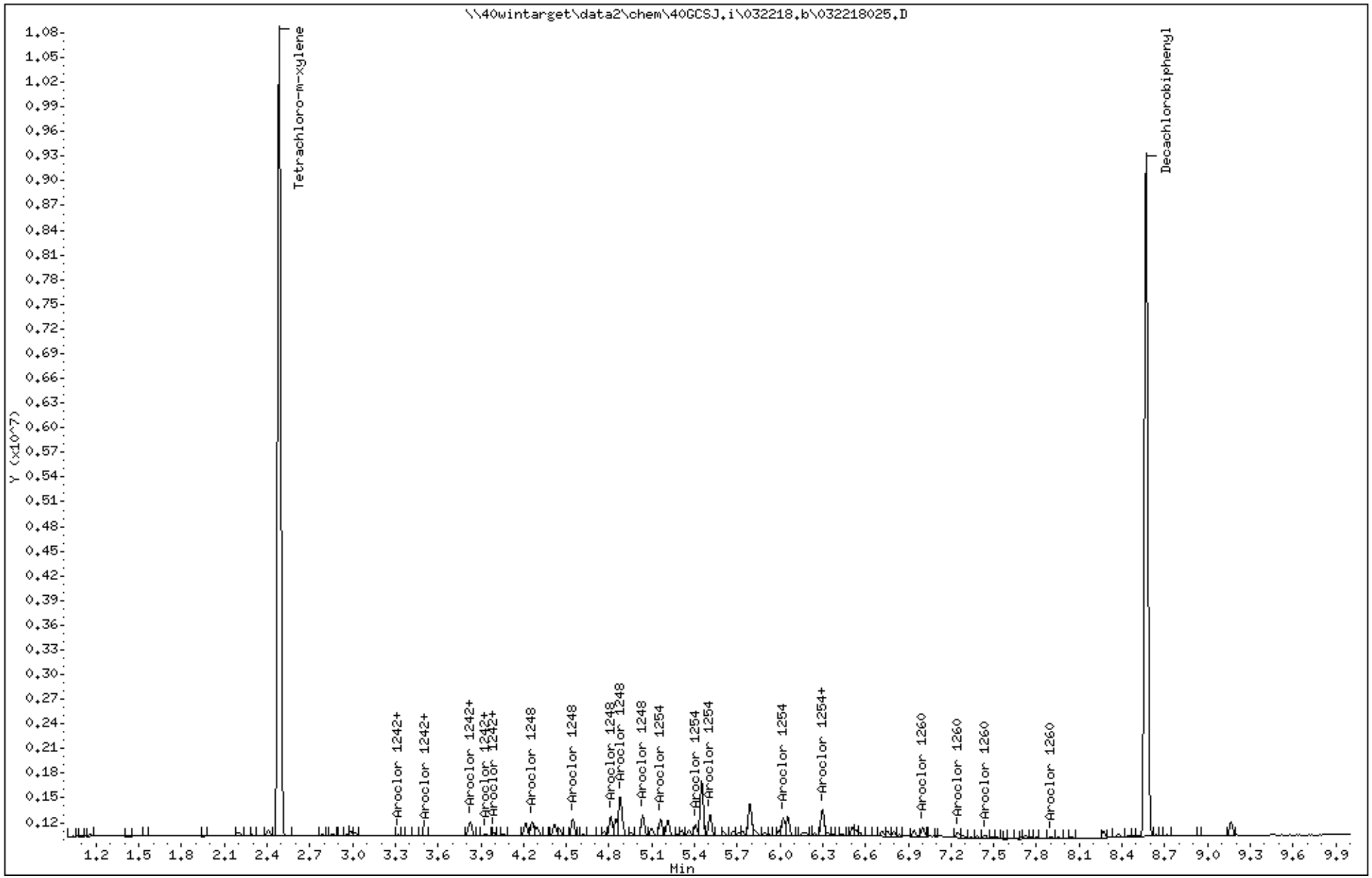
M - Compound response manually integrated.

Review Codes Legend

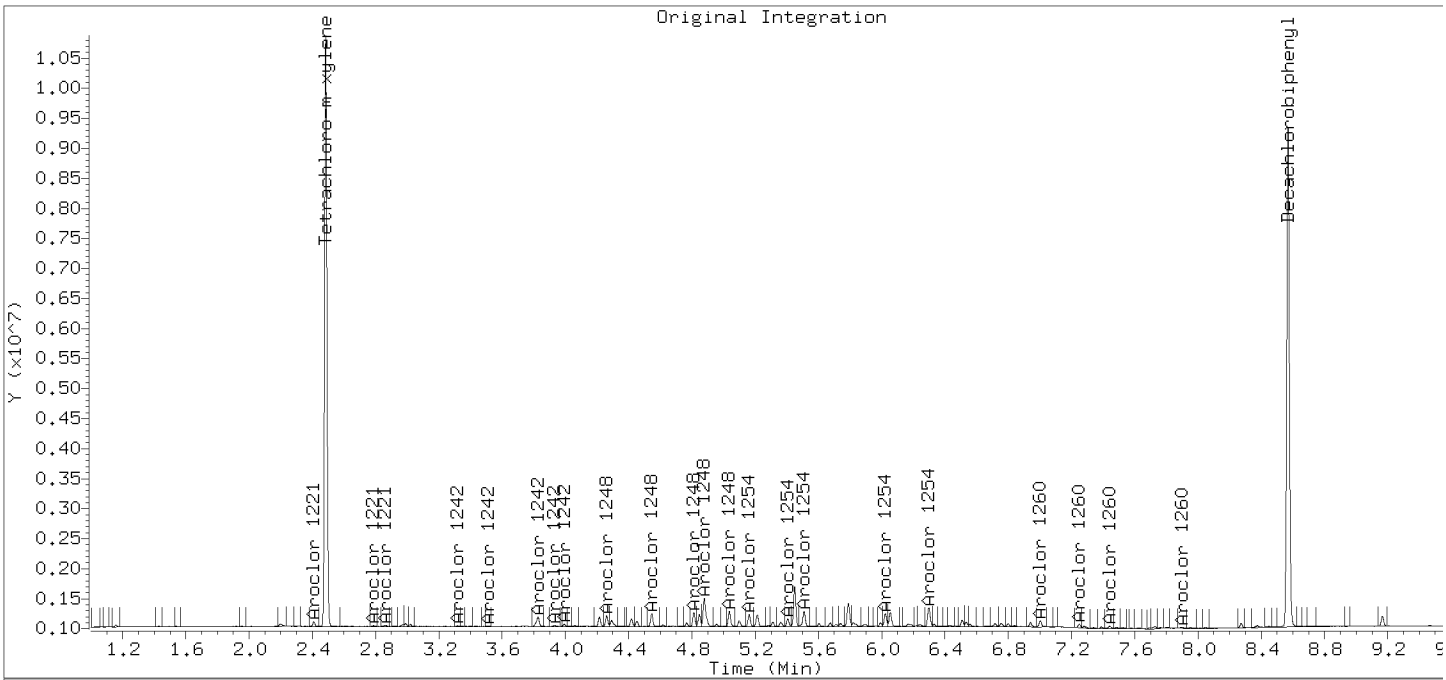
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

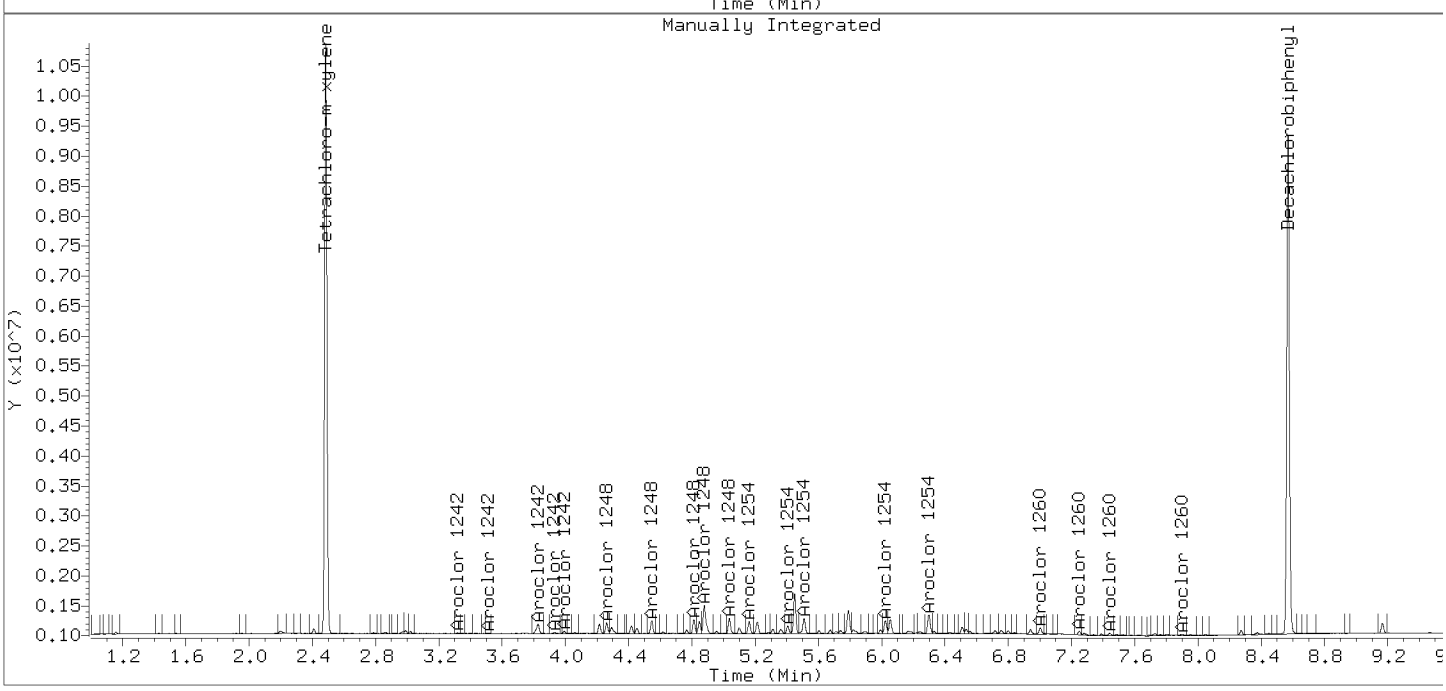
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218025.D
Date : 22-MAR-2018 18:43
Client ID: FD1-170613-01-YP-06
Sample Info: 40151612015,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 18:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	15080	0	BA
Aroclor 1016	15080	0	BA
Aroclor 1016	15080	0	BA
Aroclor 1016	15080	0	BA
Aroclor 1016	15080	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	29489	0	
Aroclor 1232	29489	0	
Aroclor 1232	29489	0	
Aroclor 1232	29489	0	

Aroclor 1232	29489	0	
Aroclor 1242	15080	0	BA
Aroclor 1242	15080	0	BA
Aroclor 1242	15080	0	BA
Aroclor 1242	15080	0	BA
Aroclor 1242	15080	0	BA
Aroclor 1248	182439	187406	CO
Aroclor 1248	182439	187406	CO
Aroclor 1248	182439	187406	CO
Aroclor 1248	182439	187406	CO
Aroclor 1248	182439	187406	CO
Aroclor 1254	210355	219953	BA
Aroclor 1254	210355	219953	BA
Aroclor 1254	210355	219953	BA
Aroclor 1254	210355	219953	BA
Aroclor 1254	210355	219953	BA
Aroclor 1260	362713	0	CO
Aroclor 1260	362713	0	CO
Aroclor 1260	362713	0	CO
Aroclor 1260	362713	0	CO
Aroclor 1260	362713	0	CO
Tetrachloro-m-xylene	10041361	10041361	
Decachlorobiphenyl	9496550	9496550	

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SAMPLE NO.

FD1-170613-01-YP-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612016
Date Analyzed: 03/22/2018 18:59
Lab File ID: 032218.B\032218026.D
Initial wt/vol: 10.0324 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)	27.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.1	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	43.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218026.D
Lab Smp Id: 40151612016 Client Smp ID: FD1-170613-01-YP-05
Inj Date : 22-MAR-2018 18:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612016,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.032	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.158	21839	21906	1.003	0.07		
1.426	12556	9781	0.779	0.04		
1.541	9965	8773	0.880	0.03		
1.952	12899	9552	0.741	0.04		
2.200	82179	51379	0.625	0.28		
2.291	13590	10496	0.772	0.04		
2.411	57059	51067	0.895	0.20		
2.484	11590364	11506874	0.993	41.18	$ 2 Tetrachloro-m-xylene	
2.784	23208	17245	0.743	0.08		
2.860	25910	16487	0.636	0.09		
2.922	9926	8839	0.891	0.03		
2.975	37166	35143	0.946	0.13		
2.990	60084	53582	0.892	0.21		
3.021	57681	50940	0.883	0.20		
3.517	9822	8499	0.865	0.03	5 Aroclor 1016	BA
3.825	108851	75230	0.691	0.38	5 Aroclor 1016	BA
3.994	29223	22801	0.780	0.10	5 Aroclor 1016	BA
4.057	30815	16579	0.538	0.10		
4.215	122338	108563	0.887	0.42		
4.261	122202	114689	0.939	0.42	6 Aroclor 1248	BA
4.293	79161	56971	0.720	0.27		
4.418	93300	87665	0.940	0.32		
4.454	55014	51771	0.941	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	153252	137239	0.896	0.53	6 Aroclor 1248
4.615	22002	20108	0.914	0.07	
4.732	17017	11832	0.695	0.05	
4.769	45186	43788	0.969	0.15	
4.813	139476	131573	0.943	0.48	6 Aroclor 1248
4.846	127484	125124	0.981	0.44	
4.878	358707	274644	0.766	1.26	6 Aroclor 1248
4.956	37525	29644	0.790	0.13	
5.036	178594	160387	0.898	0.62	6 Aroclor 1248
5.098	89675	70148	0.782	0.31	
5.161	143657	127012	0.884	0.50	7 Aroclor 1254
5.213	157634	139913	0.888	0.55	
5.281	18636	16888	0.906	0.06	
5.313	66036	61892	0.937	0.23	
5.362	55829	45901	0.822	0.19	
5.405	97079	90528	0.933	0.34	7 Aroclor 1254
5.451	502196	481581	0.959	1.76	
5.509	217935	189574	0.870	0.76	7 Aroclor 1254
5.603	38668	31005	0.802	0.13	
5.676	57068	51258	0.898	0.20	
5.713	38459	29720	0.773	0.13	
5.741	48324	37286	0.772	0.16	
5.789	321932	261103	0.811	1.13	
5.823	88324	54035	0.612	0.31	
5.898	51764	27371	0.529	0.18	
5.993	47782	44866	0.939	0.16	
6.024	174358	158665	0.910	0.61	7 Aroclor 1254
6.054	203753	170867	0.839	0.71	
6.167	40824	33289	0.815	0.14	
6.224	15565	16899	1.086	0.05	
6.242	38040	29698	0.781	0.13	
6.299	308681	264669	0.857	1.08	7 Aroclor 1254
6.331	33087	31234	0.944	0.11	
6.432	37840	22540	0.596	0.13	
6.507	111060	94008	0.846	0.39	
6.533	71152	63166	0.888	0.24	
6.560	53786	37309	0.694	0.18	
6.658	21713	14774	0.680	0.07	
6.716	70957	50658	0.714	0.24	
6.755	76770	54279	0.707	0.26	
6.799	66936	49916	0.746	0.23	
6.841	32540	22530	0.692	0.11	
6.941	88238	69211	0.784	0.30	
7.004	100049	82894	0.829	0.35	8 Aroclor 1260
7.032	13019	14925	1.146	0.04	
7.092	14213	10576	0.744	0.04	
7.125	25467	14783	0.580	0.08	
7.248	63457	54112	0.853	0.22	8 Aroclor 1260
7.279	62714	33959	0.541	0.22	
7.334	29523	19855	0.673	0.10	
7.389	35831	30577	0.853	0.12	
7.442	51808	36238	0.699	0.18	8 Aroclor 1260
7.581	11463	11289	0.985	0.04	
7.629	28064	14511	0.517	0.09	
7.692	16483	17100	1.037	0.05	
7.726	49296	37304	0.757	0.17	
7.765	21549	18251	0.847	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.806	36671	20062	0.547	0.12	
7.895	27216	19181	0.705	0.09	8 Aroclor 1260
7.951	16838	14580	0.866	0.05	
8.049	14669	15463	1.054	0.05	
8.274	89929	78097	0.868	0.31	
8.374	32927	26025	0.790	0.11	
8.444	15265	16082	1.054	0.05	
8.476	17361	11037	0.636	0.06	
8.569	10272951	9122347	0.888	36.08	$ 12 Decachlorobiphenyl
8.720	18806	13526	0.719	0.06	
9.166	168698	152250	0.902	0.59	
	28464954	26157988		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218026.D
Lab Smp Id: 40151612016 Client Smp ID: FD1-170613-01-YP-05
Inj Date : 22-MAR-2018 18:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612016,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.032	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	11590363	0.09401	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			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	122201	0.05216	26	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	153251	0.03693	18	0.00- 20.00	125.41	BA
4.812	4.812	0.000	139475	0.06870	34	0.00- 20.00	114.14	BA
4.878	4.879	-0.001	358707	0.07121	35	0.00- 20.00	293.54	BA
5.035	5.038	-0.003	178593	0.04977	25	0.00- 20.00	146.15	BA
Average of Peak Concentrations =					28			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	143657	0.02744	14	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	97079	0.02257	11	0.00- 20.00	67.58	BA
5.508	5.510	-0.002	217934	0.02806	14	0.00- 20.00	151.70	BA
6.023	6.027	-0.004	174358	0.03580	18	0.00- 20.00	121.37	BA
6.298	6.299	-0.001	308681	0.04744	24	0.00- 20.00	214.87	BA
Average of Peak Concentrations =					16			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	10272951	0.09377	47			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218026.D

Date : 22-MAR-2018 18:59

Client ID: FD1-170613-01-YP-05

Instrument: 40GCSJ.i

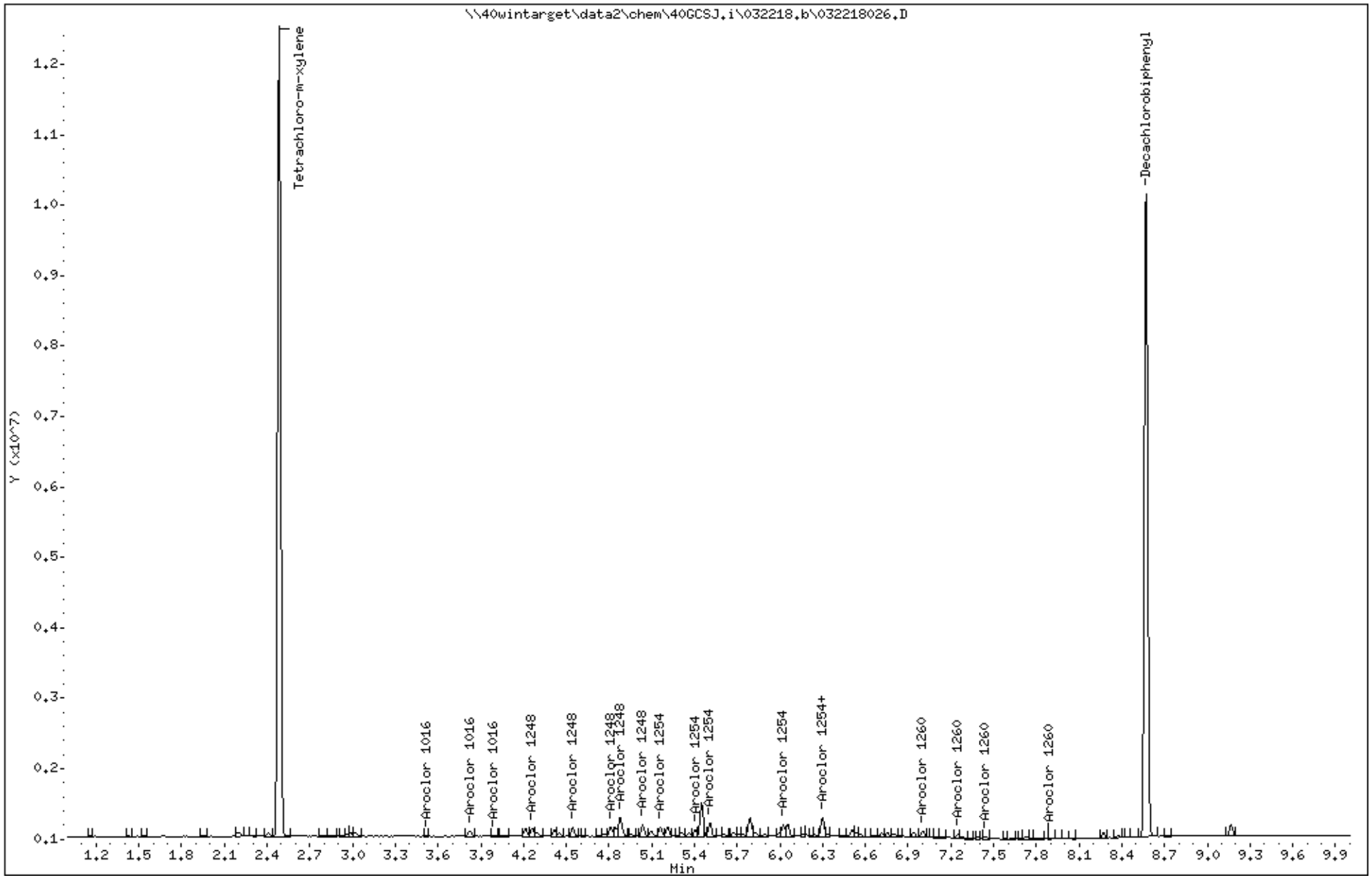
Sample Info: 40151612016,

Volume Injected (uL): 1.0

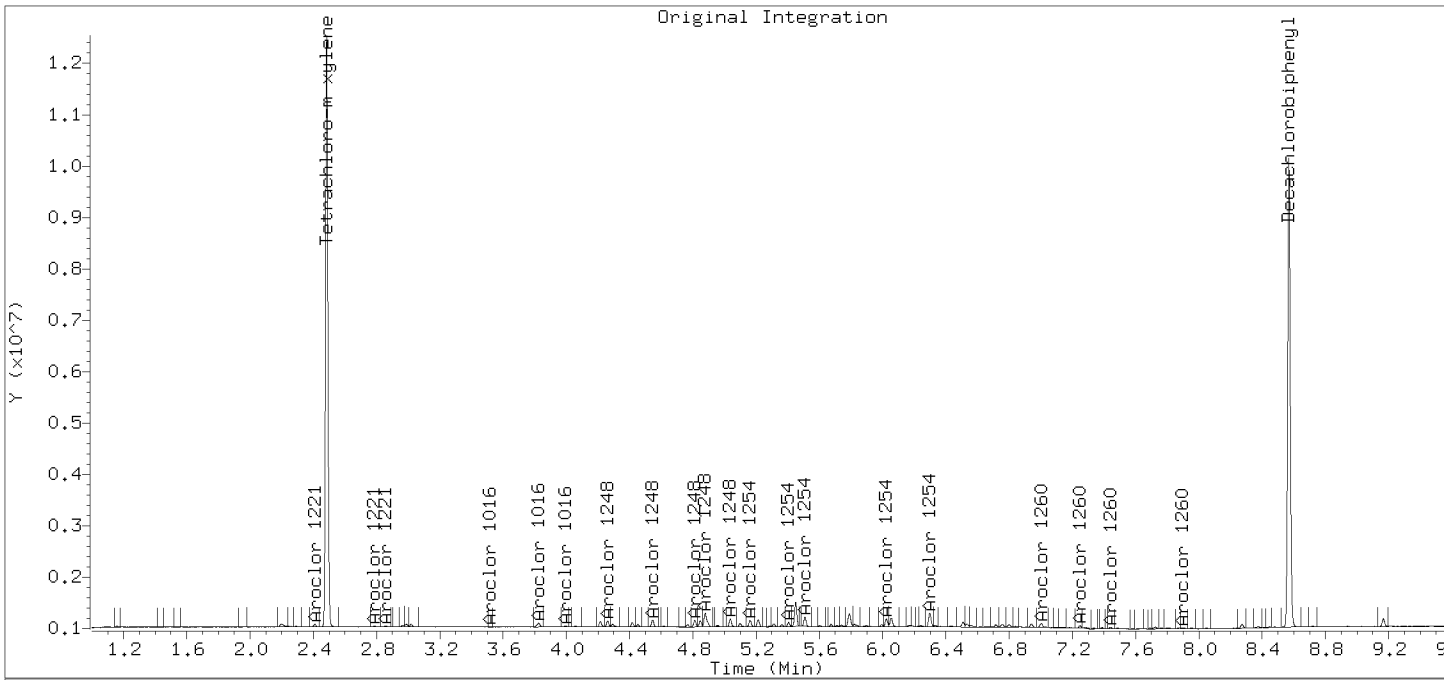
Operator: BLM

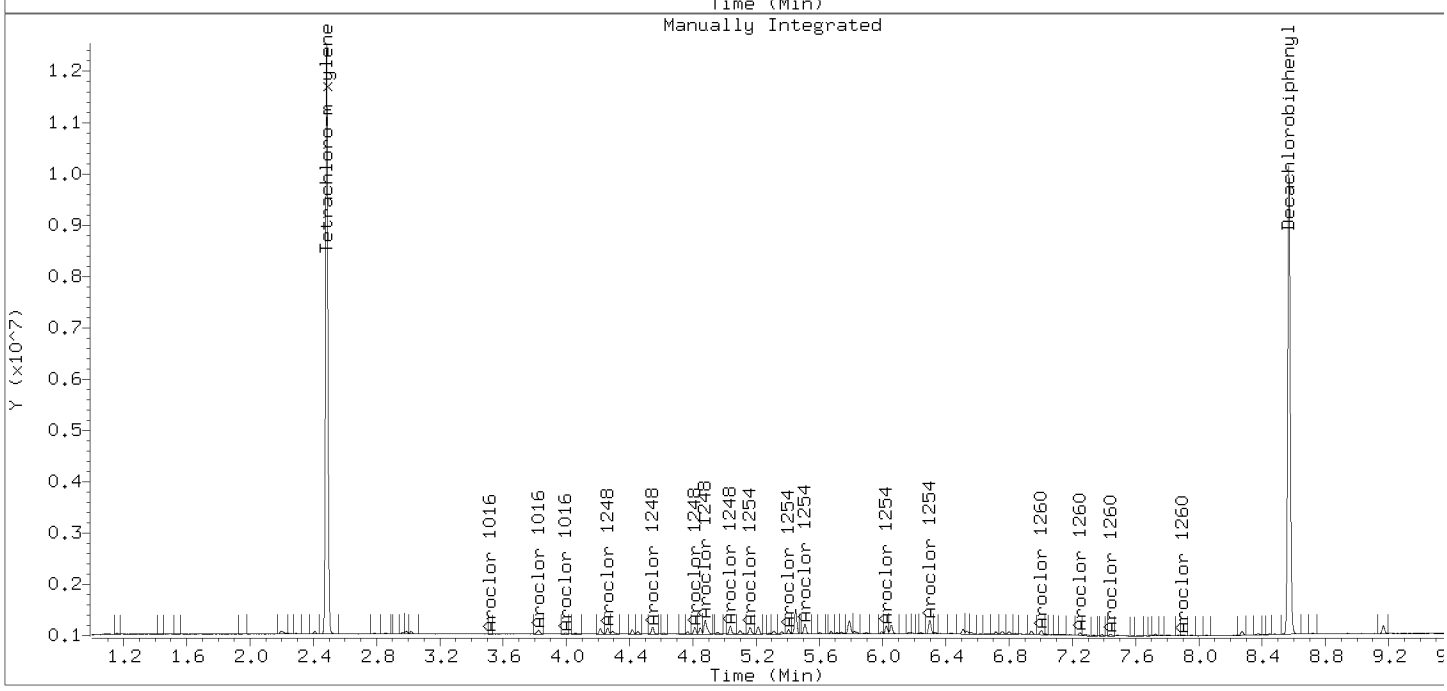
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 18:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612016





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	117703	122201	BA
Aroclor 1248	117703	122201	BA
Aroclor 1248	117703	122201	BA
Aroclor 1248	117703	122201	BA
Aroclor 1248	117703	122201	BA
Aroclor 1254	135716	143657	BA
Aroclor 1254	135716	143657	BA
Aroclor 1254	135716	143657	BA
Aroclor 1254	135716	143657	BA
Aroclor 1254	135716	143657	BA
Aroclor 1260	299619	0	CO
Aroclor 1260	299619	0	CO
Aroclor 1260	299619	0	CO
Aroclor 1260	299619	0	CO
Aroclor 1260	299619	0	CO
Tetrachloro-m-xylene	11590363	11590363	
Decachlorobiphenyl	10272951	10272951	

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SAMPLE NO.

FD1-170613-01-YP-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612017
Date Analyzed: 03/22/2018 19:15
Lab File ID: 032218.B\032218027.D
Initial wt/vol: 10.0135 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)	38.6	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.1	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	58.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218027.D
Lab Smp Id: 40151612017 Client Smp ID: FD1-170613-01-YP-04
Inj Date : 22-MAR-2018 19:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612017,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.014	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.033	14227	11436	0.804	0.04		
1.158	17087	19168	1.122	0.05		
1.428	12160	10189	0.838	0.04		
1.538	15854	9744	0.615	0.05		
2.198	136143	71256	0.523	0.47		
2.409	70537	69533	0.986	0.24		
2.484	10415087	10368142	0.995	36.80	$ 2 Tetrachloro-m-xylene	
2.786	25409	16541	0.651	0.08		
2.863	26163	16579	0.634	0.09		
2.961	34100	36474	1.070	0.11		
2.991	88722	77066	0.869	0.30		
3.020	49636	49241	0.992	0.17		
3.827	117942	88748	0.752	0.41		
3.995	31306	26636	0.851	0.10		
4.057	26545	17516	0.660	0.09		
4.214	144536	134942	0.934	0.50		
4.261	159256	149942	0.942	0.55	6 Aroclor 1248	BA
4.292	109141	87079	0.798	0.38		
4.417	122845	114600	0.933	0.42		
4.452	82481	75835	0.919	0.28		
4.546	199089	182893	0.919	0.69	6 Aroclor 1248	BA
4.615	32812	25297	0.771	0.11		
4.727	18209	12911	0.709	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	36587	32642	0.892	0.12	
4.812	204790	199833	0.976	0.71	6 Aroclor 1248
4.847	167071	165452	0.990	0.58	
4.878	512770	399420	0.779	1.78	6 Aroclor 1248
4.957	47479	37798	0.796	0.16	
5.036	242651	222703	0.918	0.84	6 Aroclor 1248
5.099	101262	86129	0.851	0.35	
5.161	184595	164113	0.889	0.64	7 Aroclor 1254
5.212	193080	173676	0.900	0.67	
5.283	22659	20049	0.885	0.07	
5.311	68244	63616	0.932	0.23	
5.362	79223	70811	0.894	0.27	
5.406	130444	118579	0.909	0.45	7 Aroclor 1254
5.451	624316	603050	0.966	2.17	
5.509	279913	242824	0.867	0.97	7 Aroclor 1254
5.604	55386	44315	0.800	0.19	
5.674	62664	54657	0.872	0.21	
5.711	43844	32741	0.747	0.15	
5.739	65760	47477	0.722	0.22	
5.790	401701	337477	0.840	1.40	
5.820	70230	50960	0.726	0.24	
5.896	54634	29623	0.542	0.19	
5.993	63222	59269	0.937	0.22	
6.024	224681	201260	0.896	0.78	7 Aroclor 1254
6.055	244908	211732	0.865	0.85	
6.168	68923	40403	0.586	0.24	
6.227	16439	20201	1.229	0.05	
6.243	46519	34782	0.748	0.16	
6.298	348301	295809	0.849	1.21	7 Aroclor 1254
6.332	40150	37153	0.925	0.13	
6.371	16933	15651	0.924	0.05	
6.430	46615	26307	0.564	0.16	
6.510	121853	108080	0.887	0.42	
6.535	81231	70758	0.871	0.28	
6.559	57198	44269	0.774	0.19	
6.614	12693	9598	0.756	0.04	
6.657	21917	16887	0.770	0.07	
6.718	76395	53252	0.697	0.26	
6.754	86095	62697	0.728	0.30	
6.801	71954	59772	0.831	0.25	
6.838	47829	24688	0.516	0.16	
6.909	12333	11712	0.950	0.04	
6.940	100649	83538	0.830	0.35	
7.003	129557	115205	0.889	0.45	8 Aroclor 1260
7.097	12448	9986	0.802	0.04	
7.123	19890	12243	0.616	0.06	
7.249	85225	72343	0.849	0.29	8 Aroclor 1260
7.280	62114	37468	0.603	0.21	
7.340	27056	21390	0.791	0.09	
7.388	39113	35949	0.919	0.13	
7.441	67151	45055	0.671	0.23	8 Aroclor 1260
7.479	35310	21971	0.622	0.12	
7.514	33992	20086	0.591	0.11	
7.580	14275	13338	0.934	0.04	
7.628	13075	9809	0.750	0.04	
7.692	22579	22290	0.987	0.07	
7.727	56609	38089	0.673	0.19	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.763	30358	23119	0.762	0.10	
7.807	44880	23385	0.521	0.15	
7.900	47556	28120	0.591	0.16	8 Aroclor 1260
7.956	33681	23970	0.712	0.11	
8.048	18692	16110	0.862	0.06	
8.273	84861	77569	0.914	0.29	
8.314	10271	8075	0.786	0.03	
8.374	53417	38782	0.726	0.18	
8.448	19981	18629	0.932	0.06	
8.480	13676	12481	0.913	0.04	
8.569	9976530	8982203	0.900	34.77	$ 12 Decachlorobiphenyl
8.719	14186	9447	0.666	0.04	
8.939	11299	9080	0.804	0.03	
9.046	11000	6520	0.593	0.03	
9.166	287845	253725	0.881	1.00	
9.467	10284	7355	0.715	0.03	
	28692337	26371323		100.000	

Total unknown % area = 19

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218027.D
Lab Smp Id: 40151612017 Client Smp ID: FD1-170613-01-YP-04
Inj Date : 22-MAR-2018 19:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612017,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.014	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	10415087	0.08447	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			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	159255	0.06797	34	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	199088	0.04797	24	0.00- 20.00	125.01	BA
4.812	4.812	0.000	204790	0.10088	50	0.00- 20.00	128.59	BA
4.877	4.879	-0.002	512769	0.10179	51	0.00- 20.00	321.98	BA
5.035	5.038	-0.003	242651	0.06762	34	0.00- 20.00	152.37	BA
Average of Peak Concentrations =					38			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	184594	0.03526	18	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	130444	0.03033	15	0.00- 20.00	70.67	BA
5.508	5.510	-0.002	279912	0.03604	18	0.00- 20.00	151.64	BA
6.024	6.027	-0.003	224681	0.04614	23	0.00- 20.00	121.72	BA
6.298	6.299	-0.001	348300	0.05353	27	0.00- 20.00	188.68	BA
Average of Peak Concentrations =					20			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9976529	0.09106	45			

QC Flag Legend

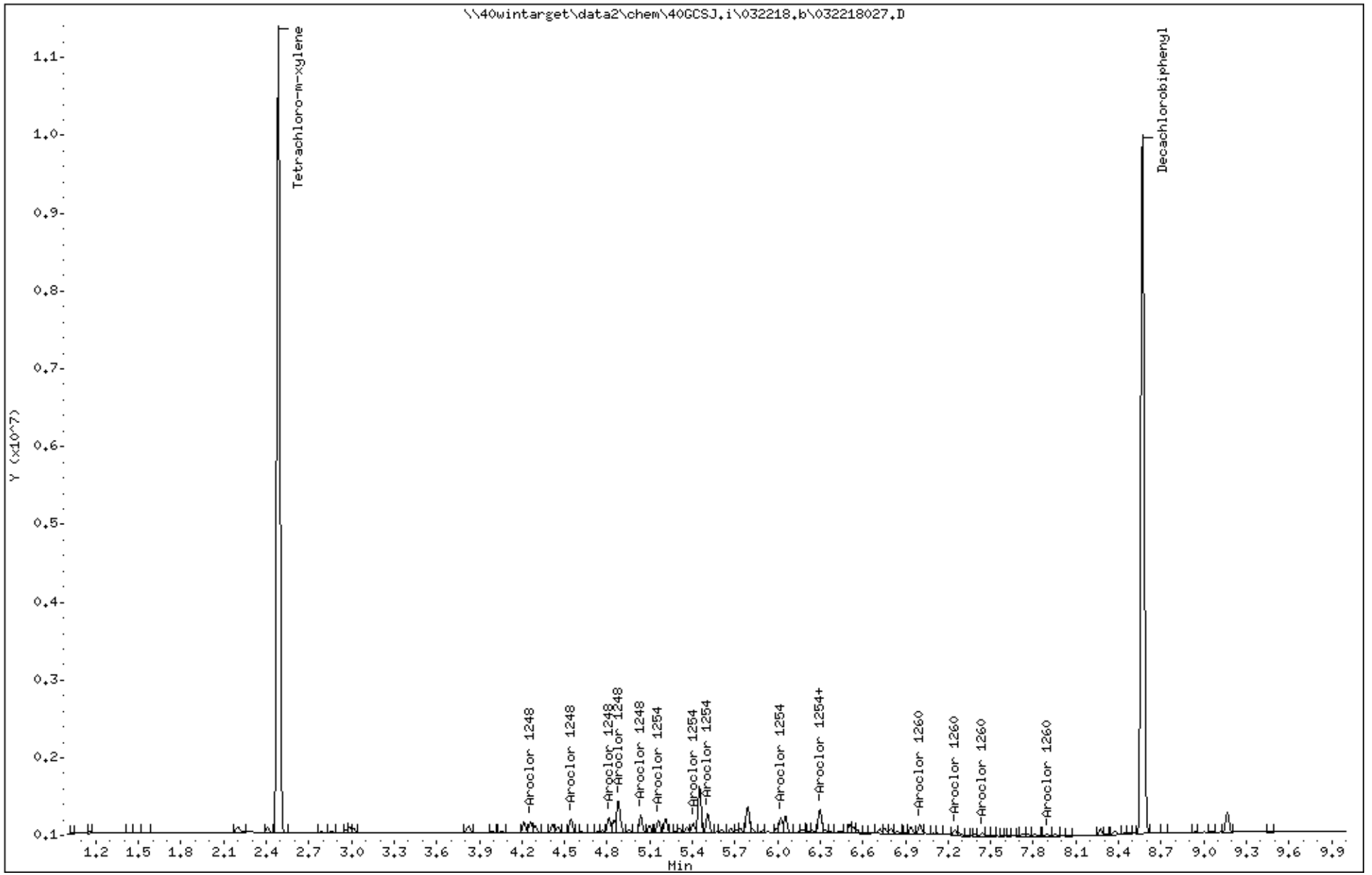
M - Compound response manually integrated.

Review Codes Legend

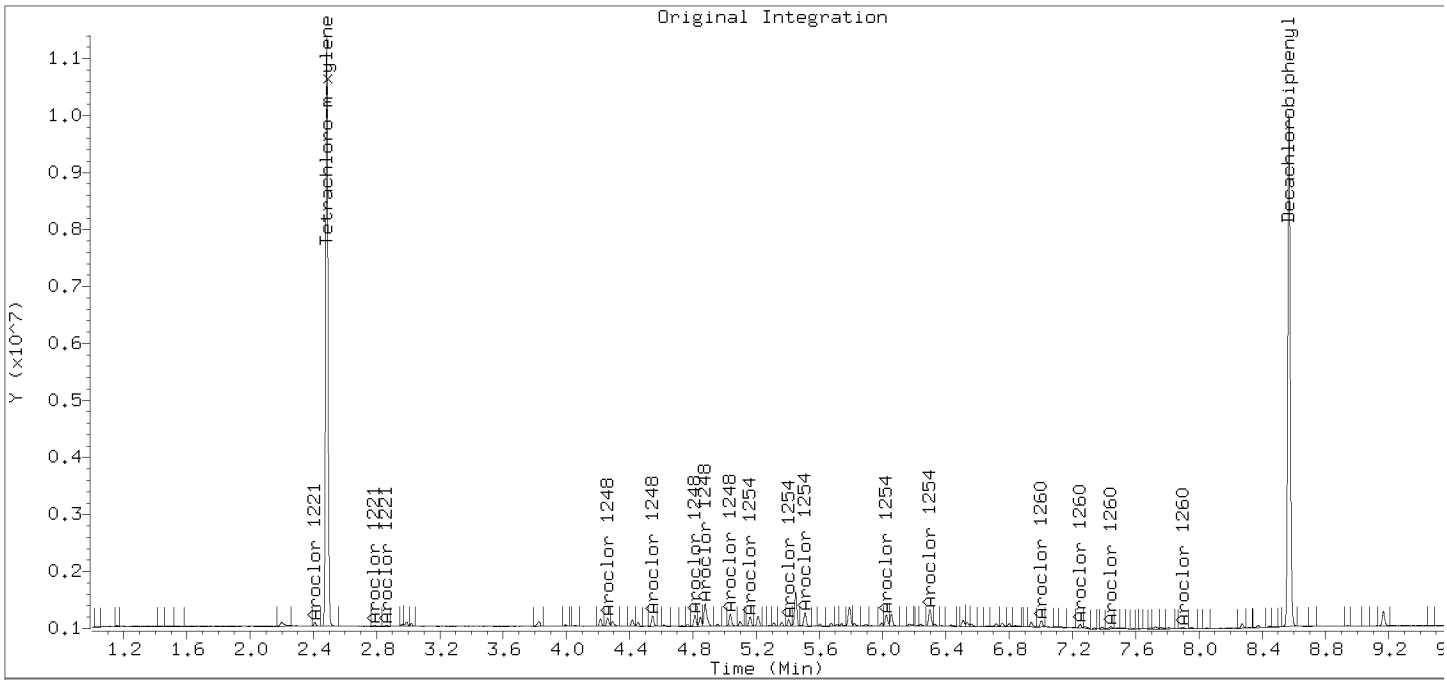
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

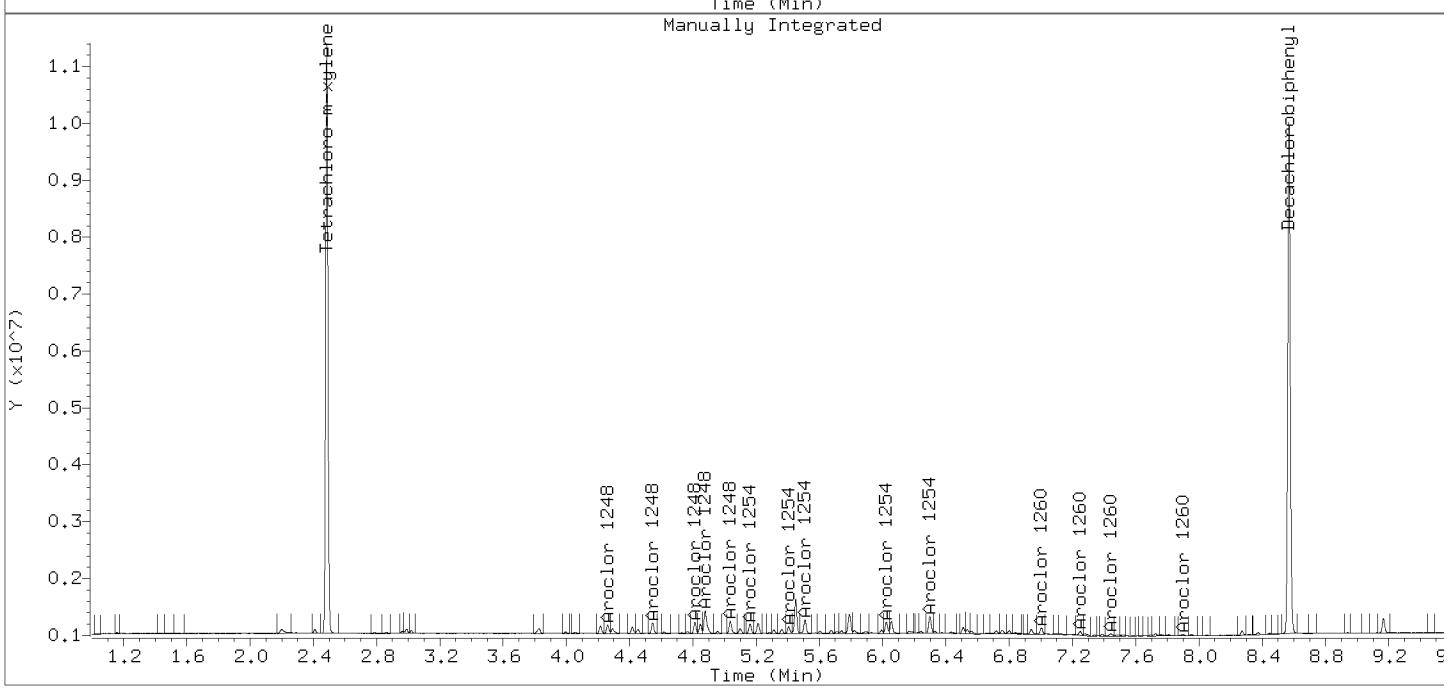
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218027.D
Date : 22-MAR-2018 19:15
Client ID: FD1-170613-01-YP-04
Sample Info: 40151612017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 19:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612017





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	151279	159255	BA
Aroclor 1248	151279	159255	BA
Aroclor 1248	151279	159255	BA
Aroclor 1248	151279	159255	BA
Aroclor 1248	151279	159255	BA
Aroclor 1254	176665	184594	BA
Aroclor 1254	176665	184594	BA
Aroclor 1254	176665	184594	BA
Aroclor 1254	176665	184594	BA
Aroclor 1254	176665	184594	BA
Aroclor 1260	344400	0	BA
Aroclor 1260	344400	0	BA
Aroclor 1260	344400	0	BA
Aroclor 1260	344400	0	BA
Aroclor 1260	344400	0	BA
Tetrachloro-m-xylene	10415087	10415087	
Decachlorobiphenyl	9976529	9976529	

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SAMPLE NO.

FD1-170613-01-YP-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612018
Date Analyzed: 03/22/2018 20:18
Lab File ID: 032218.B\032218031.D
Initial wt/vol: 10.0007 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)	33.2	J
11097-69-1	PCB-1254 (Aroclor 1254)	21.1	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U
1336-36-3	PCB, Total	54.2	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218031.D
Lab Smp Id: 40151612018 Client Smp ID: FD1-170613-01-YP-03
Inj Date : 22-MAR-2018 20:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612018,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.102	11695	6886	0.589	0.03		
1.160	55598	46279	0.832	0.17		
1.430	12617	10313	0.817	0.04		
1.539	10646	9312	0.875	0.03		
1.771	11764	11343	0.964	0.03		
1.920	13324	11627	0.873	0.04		
1.952	19548	11093	0.567	0.06		
2.199	66039	43260	0.655	0.21		
2.295	10209	7351	0.720	0.03		
2.409	151261	144584	0.956	0.48		
2.485	11777870	11151756	0.947	38.30	$ 2 Tetrachloro-m-xylene	
2.616	9315	8758	0.940	0.02		
2.789	19304	18122	0.939	0.06		
2.863	29476	19386	0.658	0.09		
2.990	157918	101840	0.645	0.50		
3.020	58957	58642	0.995	0.18		
3.316	17461	17152	0.982	0.05	5 Aroclor 1016	BA
3.341	14298	12352	0.864	0.04		
3.401	9301	9632	1.036	0.02		
3.434	10965	9216	0.840	0.03		
3.520	24591	14896	0.606	0.07	5 Aroclor 1016	BA
3.730	11391	12385	1.087	0.03		
3.827	172870	117504	0.680	0.55	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	36451	34399	0.944	0.11	5 Aroclor 1016
4.057	30844	19796	0.642	0.09	
4.215	155247	141130	0.909	0.49	
4.261	153835	148345	0.964	0.49	6 Aroclor 1248
4.294	105427	72452	0.687	0.33	
4.417	122414	113998	0.931	0.39	
4.452	72909	65146	0.894	0.23	
4.545	189317	176505	0.932	0.60	6 Aroclor 1248
4.617	25591	26065	1.019	0.08	
4.733	21193	17378	0.820	0.06	
4.768	34930	32571	0.932	0.11	
4.812	160102	152040	0.950	0.51	6 Aroclor 1248
4.848	157041	150718	0.960	0.50	
4.879	432912	306617	0.708	1.38	6 Aroclor 1248
4.956	42358	36382	0.859	0.13	
5.036	199177	189375	0.951	0.63	6 Aroclor 1248
5.059	12458	18788	1.508	0.03	
5.100	122365	99380	0.812	0.39	
5.161	197540	180940	0.916	0.63	7 Aroclor 1254
5.213	209834	186446	0.889	0.67	
5.285	21588	21976	1.018	0.06	
5.312	95460	90489	0.948	0.30	
5.362	74572	62366	0.836	0.23	
5.405	128818	115499	0.897	0.41	7 Aroclor 1254
5.450	779450	764566	0.981	2.49	
5.508	298343	253489	0.850	0.95	7 Aroclor 1254
5.603	46849	41121	0.878	0.15	
5.673	80583	73456	0.912	0.25	
5.709	55040	41028	0.745	0.17	
5.740	56909	47617	0.837	0.18	
5.789	433568	346489	0.799	1.39	
5.820	94935	86103	0.907	0.30	
5.896	66531	37075	0.557	0.21	
5.930	14818	13579	0.916	0.04	
5.993	70315	65093	0.926	0.22	
6.024	219048	191298	0.873	0.70	7 Aroclor 1254
6.055	288144	250081	0.868	0.92	
6.168	92634	48911	0.528	0.29	
6.241	69914	38099	0.545	0.22	
6.298	389401	336281	0.864	1.24	7 Aroclor 1254
6.332	41130	38576	0.938	0.13	
6.374	22187	15671	0.706	0.07	
6.428	40194	25344	0.631	0.12	
6.509	128672	115541	0.898	0.41	
6.534	82305	80248	0.975	0.26	
6.559	55018	42318	0.769	0.17	
6.603	17199	12996	0.756	0.05	
6.657	23660	16371	0.692	0.07	
6.715	79635	63705	0.800	0.25	
6.755	85951	64633	0.752	0.27	
6.800	73950	60126	0.813	0.23	
6.841	39027	22108	0.566	0.12	
6.940	84566	72280	0.855	0.27	
7.002	116373	102932	0.884	0.37	8 Aroclor 1260
7.029	13150	13755	1.046	0.04	
7.182	22280	10964	0.492	0.07	
7.249	85372	70727	0.828	0.27	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.279	73091	41766	0.571	0.23	
7.337	40192	23659	0.589	0.12	
7.388	39851	34384	0.863	0.12	
7.439	76435	45990	0.602	0.24	8 Aroclor 1260
7.485	46559	24089	0.517	0.14	
7.525	32910	19284	0.586	0.10	
7.578	15407	13964	0.906	0.04	
7.617	19601	11041	0.563	0.06	
7.655	9963	7988	0.802	0.03	
7.694	16102	15914	0.988	0.05	
7.727	50771	35961	0.708	0.16	
7.762	27060	18788	0.694	0.08	
7.801	34564	17670	0.511	0.11	
7.898	28663	20993	0.732	0.09	8 Aroclor 1260
7.954	18719	16934	0.905	0.06	
8.047	20112	18214	0.906	0.06	
8.272	88697	77848	0.878	0.28	
8.375	49198	31375	0.638	0.15	
8.444	18505	15976	0.863	0.05	
8.569	10713436	9401321	0.878	34.35	$ 12 Decachlorobiphenyl
8.642	19686	14437	0.733	0.06	
8.717	15115	10860	0.719	0.04	
9.165	182686	163518	0.895	0.58	
	31183270	27857045		100.000	

Total unknown % area = 18

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218031.D
Lab Smp Id: 40151612018 Client Smp ID: FD1-170613-01-YP-03
Inj Date : 22-MAR-2018 20:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612018,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 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	10.001	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			
2.485	2.484	0.001	11777870	0.09553	48			
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	153834	0.06566	33	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	189316	0.04561	23	0.00- 20.00	123.07	CO
4.811	4.812	-0.001	160102	0.07886	39	0.00- 20.00	104.07	CO
4.878	4.879	-0.001	432912	0.08594	43	0.00- 20.00	281.42	CO
5.036	5.038	-0.002	199177	0.05550	28	0.00- 20.00	129.48	CO
Average of Peak Concentrations =					33			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	197539	0.03773	19	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	128817	0.02995	15	0.00- 20.00	65.21	BA
5.508	5.510	-0.002	298342	0.03842	19	0.00- 20.00	151.03	BA
6.024	6.027	-0.003	219047	0.04498	22	0.00- 20.00	110.89	BA
6.297	6.299	-0.002	389401	0.05984	30	0.00- 20.00	197.13	BA
Average of Peak Concentrations =					21			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	10713436	0.09779	49			

QC Flag Legend

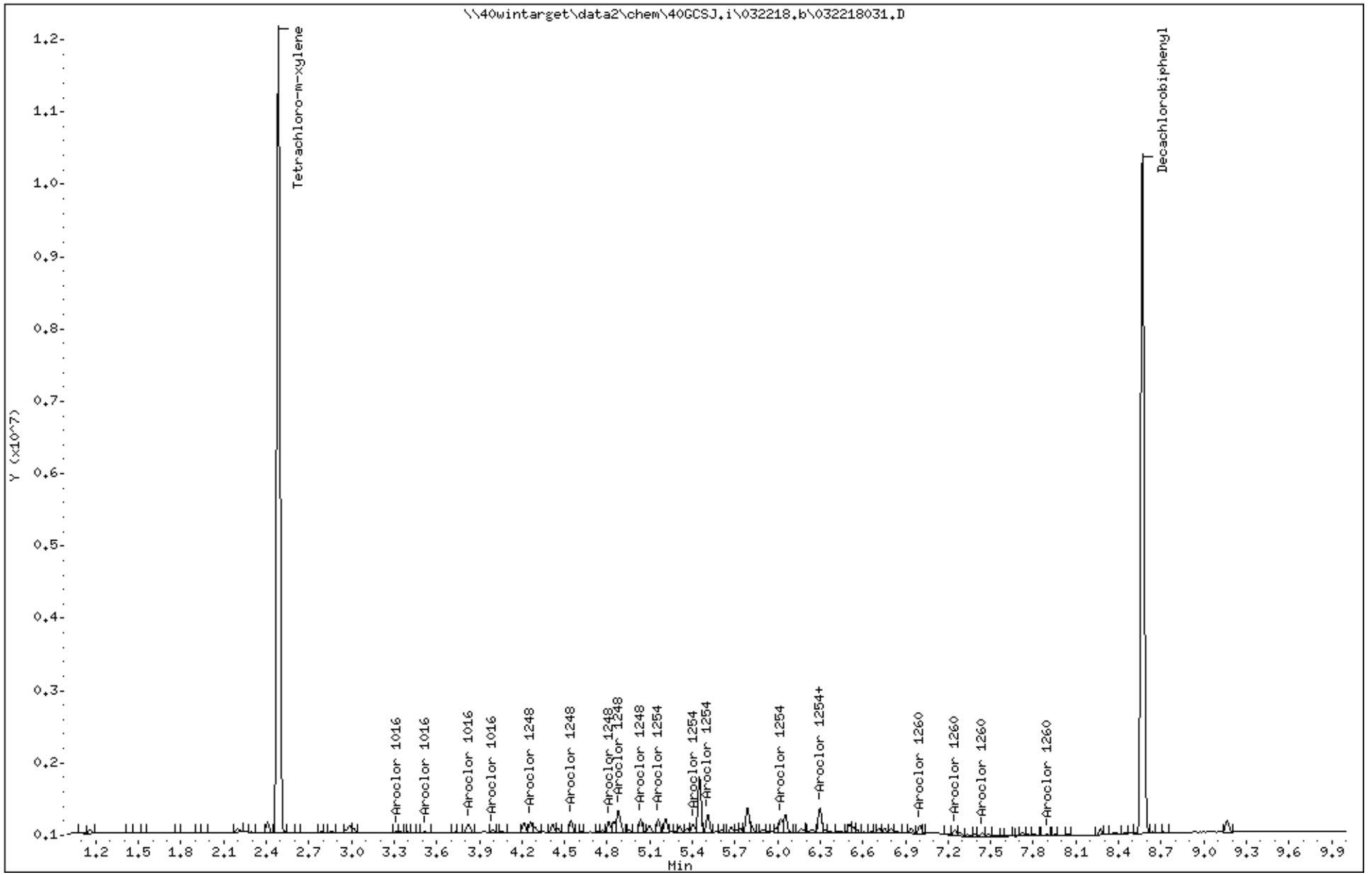
M - Compound response manually integrated.

Review Codes Legend

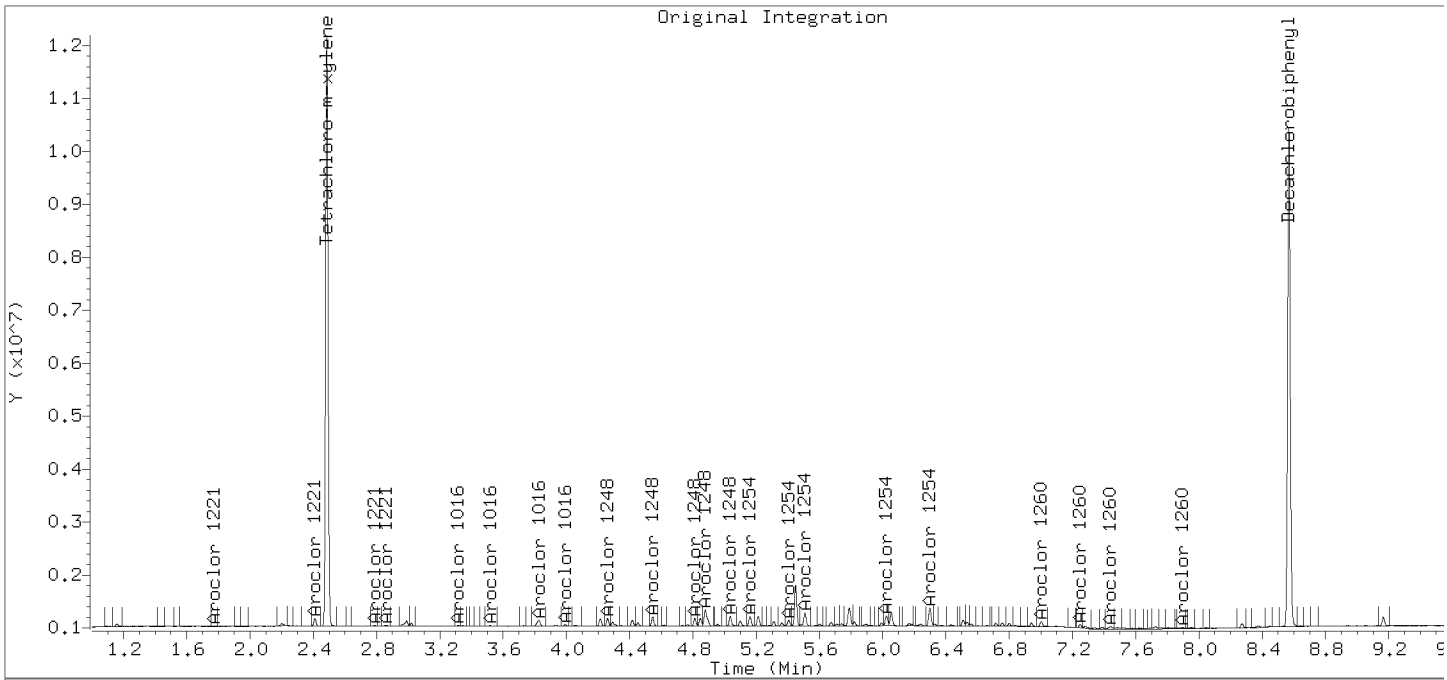
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

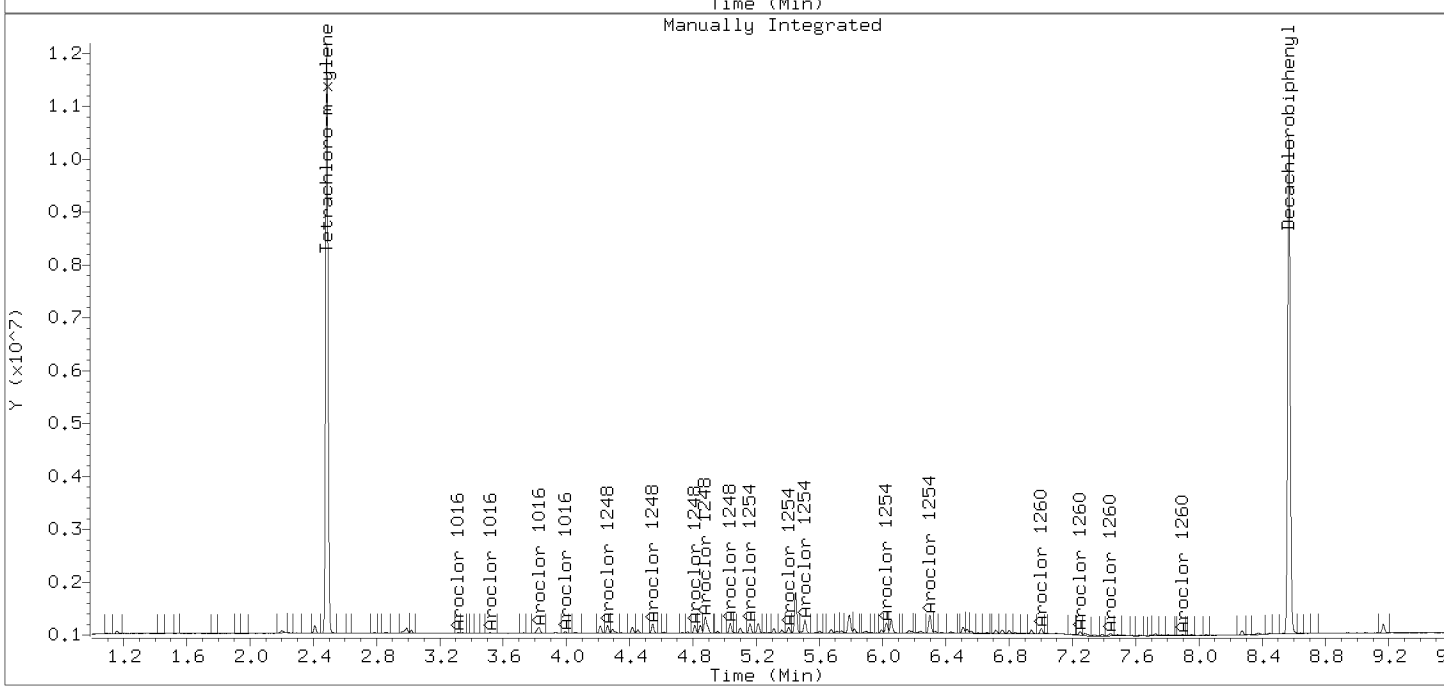
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218031.D
Date : 22-MAR-2018 20:18
Client ID: FD1-170613-01-YP-03
Sample Info: 40151612018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 20:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	17460	0	BA
Aroclor 1016	17460	0	BA
Aroclor 1016	17460	0	BA
Aroclor 1016	17460	0	BA
Aroclor 1016	17460	0	BA
Aroclor 1221	11763	0	
Aroclor 1221	11763	0	
Aroclor 1221	11763	0	
Aroclor 1221	11763	0	
Aroclor 1221	11763	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	148757	153834	CO
Aroclor 1248	148757	153834	CO
Aroclor 1248	148757	153834	CO
Aroclor 1248	148757	153834	CO
Aroclor 1248	148757	153834	CO
Aroclor 1254	190696	197539	BA
Aroclor 1254	190696	197539	BA
Aroclor 1254	190696	197539	BA
Aroclor 1254	190696	197539	BA
Aroclor 1254	190696	197539	BA
Aroclor 1260	383414	0	CO
Aroclor 1260	383414	0	CO
Aroclor 1260	383414	0	CO
Aroclor 1260	383414	0	CO
Aroclor 1260	383414	0	CO
Tetrachloro-m-xylene	11777870	11777870	
Decachlorobiphenyl	10713436	10713436	

==========

SAMPLE NO.

FD1-170613-01-YP-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612019
Date Analyzed: 03/22/2018 20:34
Lab File ID: 032218.B\032218032.D
Initial wt/vol: 10.0084 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	12.9	J
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	12.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218032.D
Lab Smp Id: 40151612019 Client Smp ID: FD1-170613-01-YP-02
Inj Date : 22-MAR-2018 20:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612019,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.159	31937	22790	0.714	0.13		
1.330	11443	6350	0.555	0.04		
1.428	10730	8459	0.788	0.04		
1.537	9212	9194	0.998	0.03		
2.199	132498	61361	0.463	0.54		
2.290	20228	11516	0.569	0.08		
2.409	64534	62179	0.964	0.26		
2.485	10947181	10602586	0.969	45.01	$ 2 Tetrachloro-m-xylene	
2.787	23646	18655	0.789	0.09		
2.860	28570	20490	0.717	0.11		
2.989	71215	42545	0.597	0.29		
3.021	33653	33323	0.990	0.13		
3.399	17821	15005	0.842	0.07		
3.690	13077	12331	0.943	0.05		
3.825	66366	45448	0.685	0.27		
3.995	21056	16253	0.772	0.08		
4.213	56476	47831	0.847	0.23		
4.260	64611	50225	0.777	0.26	6 Aroclor 1248	CO
4.293	42304	30627	0.724	0.17		
4.417	41294	39752	0.963	0.16		
4.452	27455	25243	0.919	0.11		
4.546	65222	56816	0.871	0.26	6 Aroclor 1248	CO
4.617	12423	12055	0.970	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	35087	31403	0.895	0.14	
4.813	69032	59237	0.858	0.28	6 Aroclor 1248
4.846	59583	56631	0.950	0.24	
4.878	163863	118441	0.723	0.66	6 Aroclor 1248
4.955	21478	14355	0.668	0.08	
5.036	70360	67382	0.958	0.28	6 Aroclor 1248
5.058	9754	10547	1.081	0.03	
5.099	51323	33875	0.660	0.20	
5.162	73834	64398	0.872	0.30	7 Aroclor 1254
5.214	78894	68605	0.870	0.32	
5.312	35615	31872	0.895	0.14	
5.344	12501	16003	1.280	0.05	
5.361	24737	22482	0.909	0.10	
5.406	48225	42091	0.873	0.19	7 Aroclor 1254
5.450	270204	247429	0.916	1.10	
5.510	103131	89447	0.867	0.42	7 Aroclor 1254
5.601	19434	16085	0.828	0.07	
5.674	29379	27235	0.927	0.11	
5.707	22109	15437	0.698	0.09	
5.739	24177	19419	0.803	0.09	
5.789	156137	137164	0.878	0.63	
5.820	34866	34586	0.992	0.14	
5.837	30080	27231	0.905	0.12	
5.887	22435	16544	0.737	0.09	
5.995	26587	24100	0.906	0.10	
6.023	80395	72216	0.898	0.32	7 Aroclor 1254
6.055	112111	86982	0.776	0.45	
6.165	28916	18488	0.639	0.11	
6.241	19775	13827	0.699	0.08	
6.299	150403	124099	0.825	0.61	7 Aroclor 1254
6.332	18720	16975	0.907	0.07	
6.508	49094	44662	0.910	0.20	
6.536	35359	33023	0.934	0.14	
6.560	29059	19093	0.657	0.11	
6.714	34364	24079	0.701	0.14	
6.758	35429	26194	0.739	0.14	
6.799	32357	22089	0.683	0.13	
6.942	41043	29885	0.728	0.16	
7.002	43221	37416	0.866	0.17	8 Aroclor 1260
7.139	9635	9349	0.970	0.03	
7.245	36472	30158	0.827	0.14	8 Aroclor 1260
7.281	43109	21969	0.510	0.17	
7.338	30163	16932	0.561	0.12	
7.387	15505	13550	0.874	0.06	
7.441	26547	20361	0.767	0.10	8 Aroclor 1260
7.580	12284	12301	1.001	0.05	
7.697	9706	10190	1.050	0.03	
7.724	43664	31805	0.728	0.17	
7.762	17894	11058	0.618	0.07	
7.802	27551	14926	0.542	0.11	
7.948	9523	8442	0.886	0.03	
8.046	16751	10072	0.601	0.06	
8.273	81944	70763	0.864	0.33	
8.377	17387	14372	0.827	0.07	
8.569	10045409	8706284	0.867	40.96	$ 12 Decachlorobiphenyl
9.165	60292	56480	0.937	0.24	
	24519862	22171073		100.000	

Total unknown % area = 10

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218032.D
Lab Smp Id: 40151612019 Client Smp ID: FD1-170613-01-YP-02
Inj Date : 22-MAR-2018 20:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612019,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.008	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		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	10947181	0.08879	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)	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	64611	0.02758	14	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	65222	0.01571	7.8	0.00- 20.00	100.95	CO
4.813	4.812	0.001	69031	0.03400	17	0.00- 20.00	106.84	CO
4.877	4.879	-0.002	163862	0.03253	16	0.00- 20.00	253.61	CO
5.036	5.038	-0.002	70360	0.01961	9.8	0.00- 20.00	108.90	CO
Average of Peak Concentrations =					13			
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Peaks not detected for Quant. or Qual. signal(s).								
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10045408	0.09169	46			

QC Flag Legend

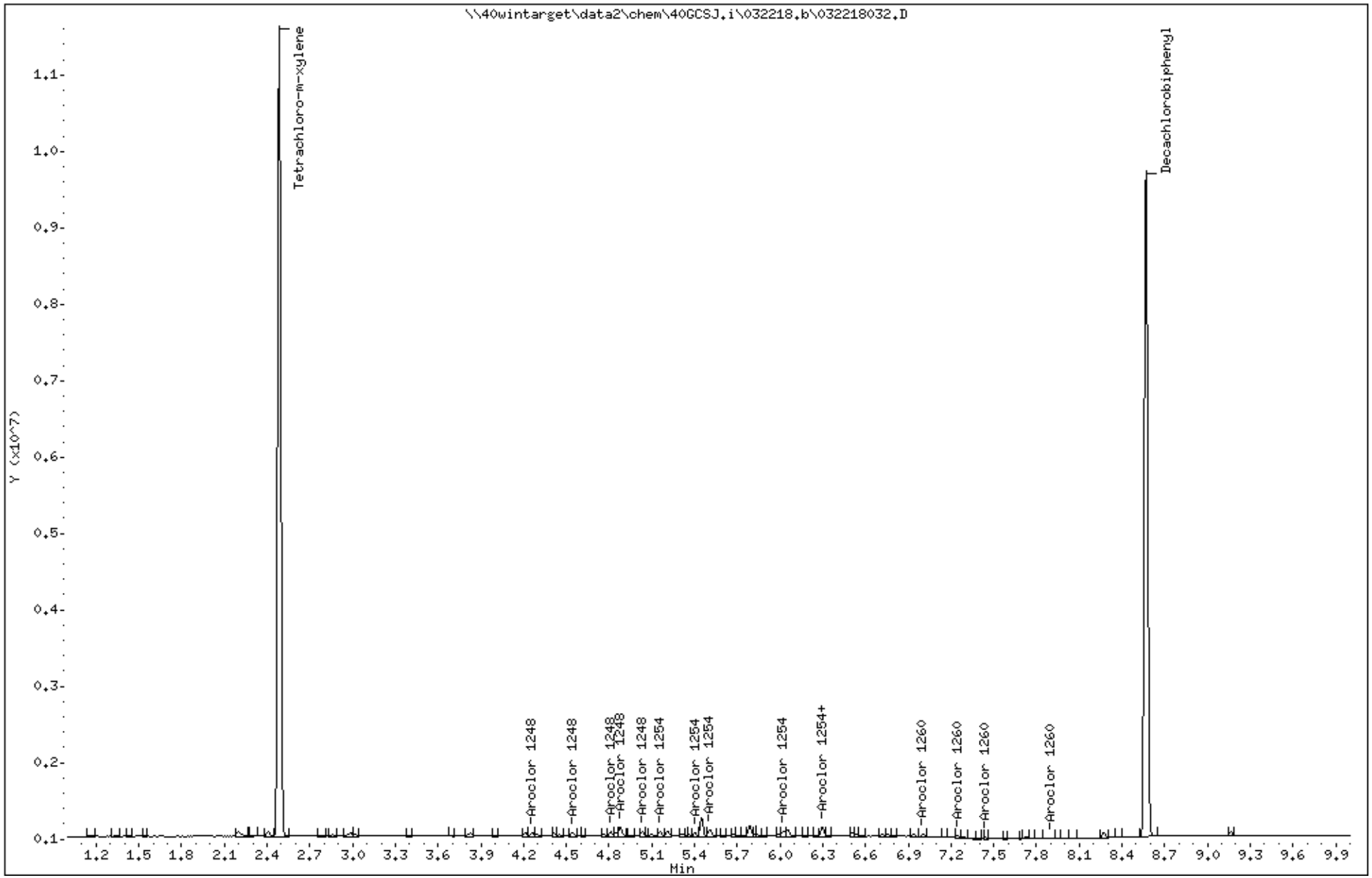
M - Compound response manually integrated.

Review Codes Legend

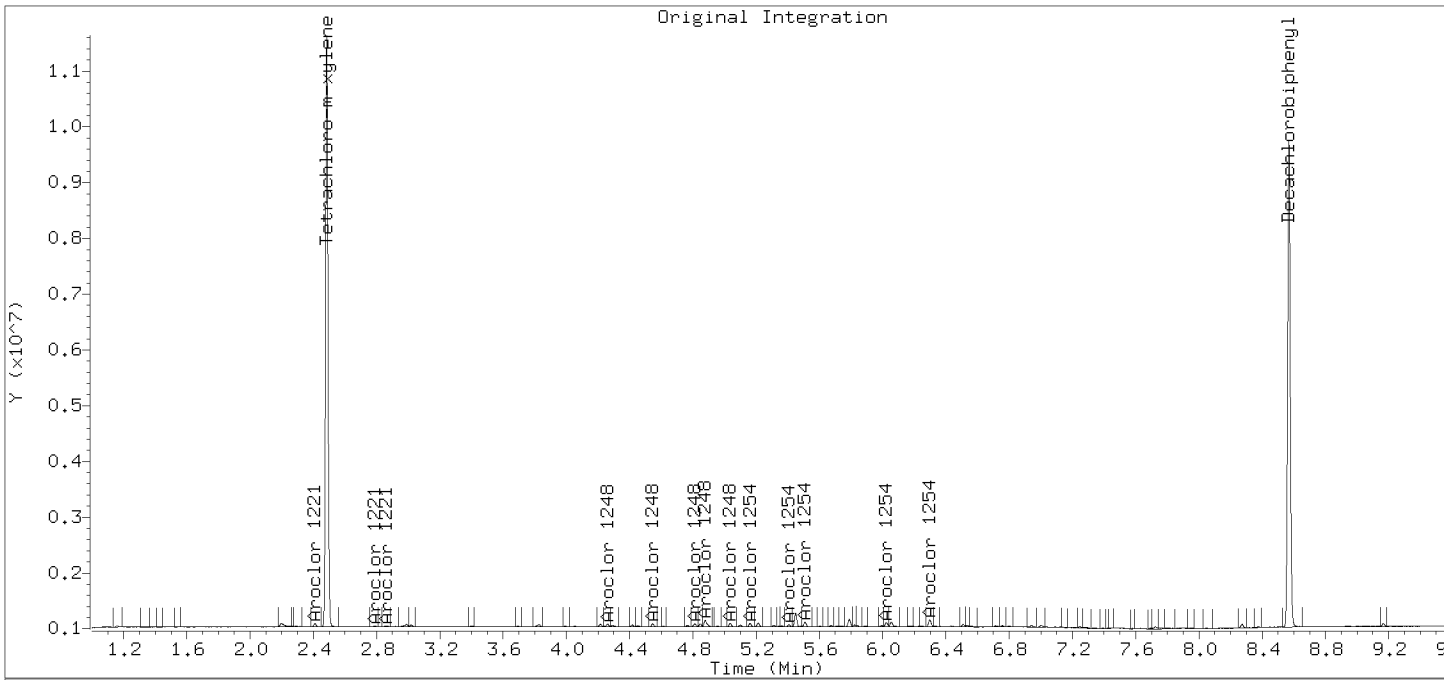
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

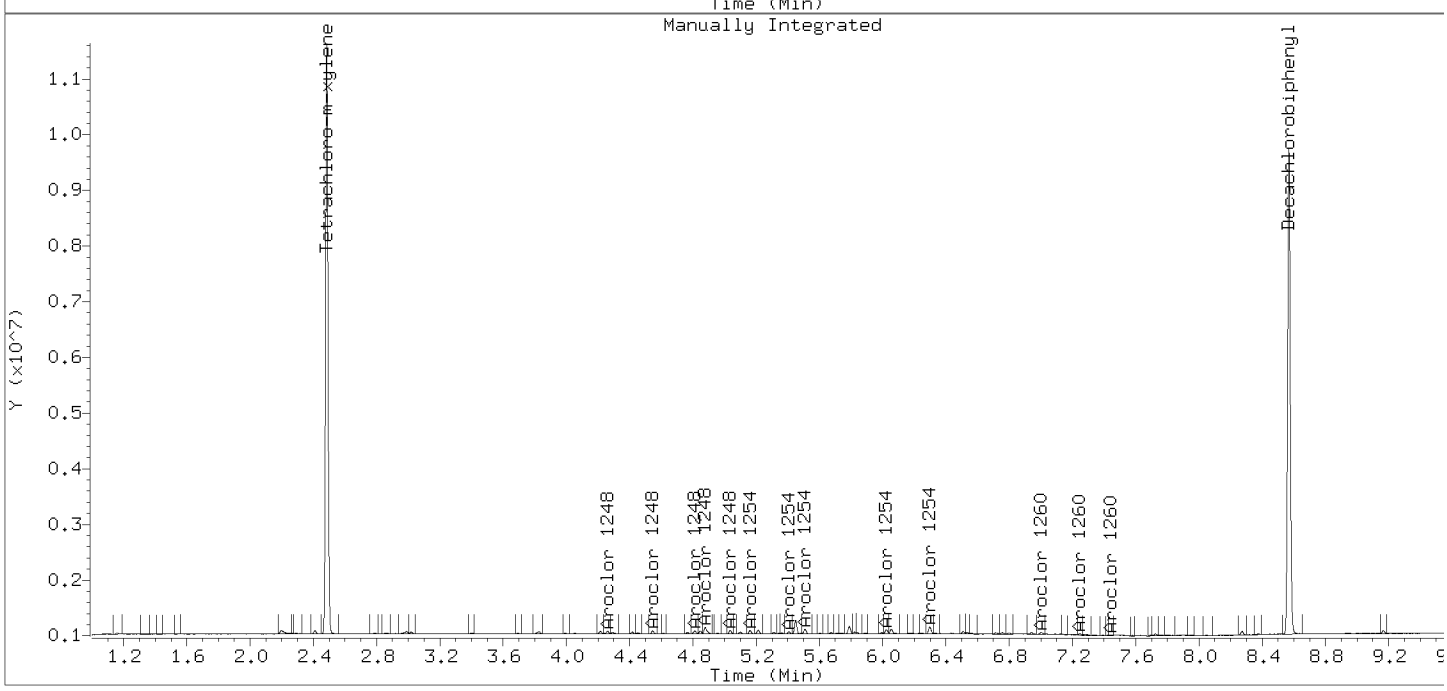
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218032.D
Date : 22-MAR-2018 20:34
Client ID: FD1-170613-01-YP-02
Sample Info: 40151612019,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 20:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612019





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	58092	64611	CO
Aroclor 1248	58092	64611	CO
Aroclor 1248	58092	64611	CO
Aroclor 1248	58092	64611	CO
Aroclor 1248	58092	64611	CO
Aroclor 1254	68238	0	BA
Aroclor 1254	68238	0	BA
Aroclor 1254	68238	0	BA
Aroclor 1254	68238	0	BA
Aroclor 1254	68238	0	BA
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10947181	10947181	
Decachlorobiphenyl	10045408	10045408	

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SAMPLE NO.

FD1-170613-01-YP-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151612
Date Extracted: 03/21/2018 07:00
Lab Sample ID: 40151612020
Date Analyzed: 03/22/2018 20:50
Lab File ID: 032218.B\032218033.D
Initial wt/vol: 9.9904 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\032218.b\032218033.D
Lab Smp Id: 40151612020 Client Smp ID: FD1-170613-01-YP-01
Inj Date : 22-MAR-2018 20:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612020,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	11676	8850	0.758	0.04		
1.156	14890	15611	1.048	0.06		
1.431	18098	12590	0.696	0.07		
1.542	11097	10046	0.905	0.04		
2.168	9562	9541	0.998	0.03		
2.197	148938	68851	0.462	0.61		
2.293	33978	14007	0.412	0.14		
2.409	37185	37760	1.015	0.15		
2.484	10519802	10378807	0.987	44.18	$ 2 Tetrachloro-m-xylene	
2.784	20516	17583	0.857	0.08		
2.858	26414	20083	0.760	0.10		
2.922	11472	10843	0.945	0.04		
2.973	10114	16620	1.643	0.04		
2.987	23953	23850	0.996	0.09		
3.019	30050	26317	0.876	0.12		
3.828	31790	24628	0.775	0.13		
4.215	24370	22295	0.915	0.10		
4.239	14153	17622	1.245	0.05		
4.262	27801	26505	0.953	0.11	6 Aroclor 1248	CO
4.294	25942	18320	0.706	0.10		
4.418	23153	18866	0.815	0.09		
4.454	15604	12296	0.788	0.06		
4.546	31538	25285	0.802	0.13	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.764	31032	25423	0.819	0.12	
4.811	37929	28233	0.744	0.15	6 Aroclor 1248
4.847	30563	29500	0.965	0.12	
4.879	82607	51084	0.618	0.34	6 Aroclor 1248
5.037	25171	23937	0.951	0.10	6 Aroclor 1248
5.052	7971	9768	1.225	0.03	
5.100	41427	27523	0.664	0.17	
5.162	63366	50307	0.794	0.26	7 Aroclor 1254
5.214	62630	52286	0.835	0.26	
5.315	29230	26388	0.903	0.12	
5.352	38013	20077	0.528	0.15	
5.407	36692	27526	0.750	0.15	7 Aroclor 1254
5.451	249985	239869	0.960	1.03	
5.509	74677	66300	0.888	0.31	7 Aroclor 1254
5.606	20339	13416	0.660	0.08	
5.674	37744	30249	0.801	0.15	
5.707	24048	18209	0.757	0.09	
5.735	22332	18747	0.839	0.09	
5.789	146830	124017	0.845	0.61	
5.820	52891	30254	0.572	0.21	
5.884	26695	15238	0.571	0.11	
5.992	27802	28104	1.011	0.11	
6.023	64923	54663	0.842	0.26	7 Aroclor 1254
6.054	117478	100614	0.856	0.48	
6.170	24833	20172	0.812	0.10	
6.184	28293	22477	0.794	0.11	
6.242	24615	18269	0.742	0.10	
6.298	159785	135863	0.850	0.66	7 Aroclor 1254
6.332	18957	16460	0.868	0.07	
6.428	23154	13641	0.589	0.09	
6.508	57188	51396	0.899	0.23	
6.534	36949	33874	0.917	0.15	
6.561	37344	25762	0.690	0.15	
6.619	13716	10249	0.747	0.05	
6.661	16798	11787	0.702	0.06	
6.714	36981	28478	0.770	0.15	
6.754	44084	31460	0.714	0.18	
6.800	38093	26761	0.703	0.15	
6.837	21732	12791	0.589	0.09	
6.940	49272	35944	0.730	0.20	
7.004	61656	50723	0.823	0.25	8 Aroclor 1260
7.096	21076	15353	0.728	0.08	
7.119	36599	17070	0.466	0.15	
7.250	47084	36737	0.780	0.19	8 Aroclor 1260
7.281	43387	23660	0.545	0.18	
7.337	21494	16362	0.761	0.08	
7.387	15572	14890	0.956	0.06	
7.440	29066	20641	0.710	0.12	8 Aroclor 1260
7.577	13135	11422	0.870	0.05	
7.613	7104	6789	0.956	0.02	
7.638	14003	6935	0.495	0.05	
7.724	42936	31986	0.745	0.17	
7.799	25741	15721	0.611	0.10	
7.900	21903	12379	0.565	0.09	8 Aroclor 1260
7.952	20093	11634	0.579	0.08	
8.272	82163	73469	0.894	0.34	
8.374	28365	22928	0.808	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.443	9755	9279	0.951	0.04	
8.568	10238176	8922926	0.872	42.57	$ 12 Decachlorobiphenyl
9.166	163319	140203	0.858	0.67	
	24048891	21905399		100.000	

Total unknown % area = 10

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218033.D
Lab Smp Id: 40151612020 Client Smp ID: FD1-170613-01-YP-01
Inj Date : 22-MAR-2018 20:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151612020,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	10519802	0.08532	43			
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			
Compound Not Detected.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.567	8.571	-0.004	10238175	0.09345	47			

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\032218.b\032218033.D

Date : 22-MAR-2018 20:50

Client ID: FD1-170613-01-YP-01

Instrument: 40GCSJ.i

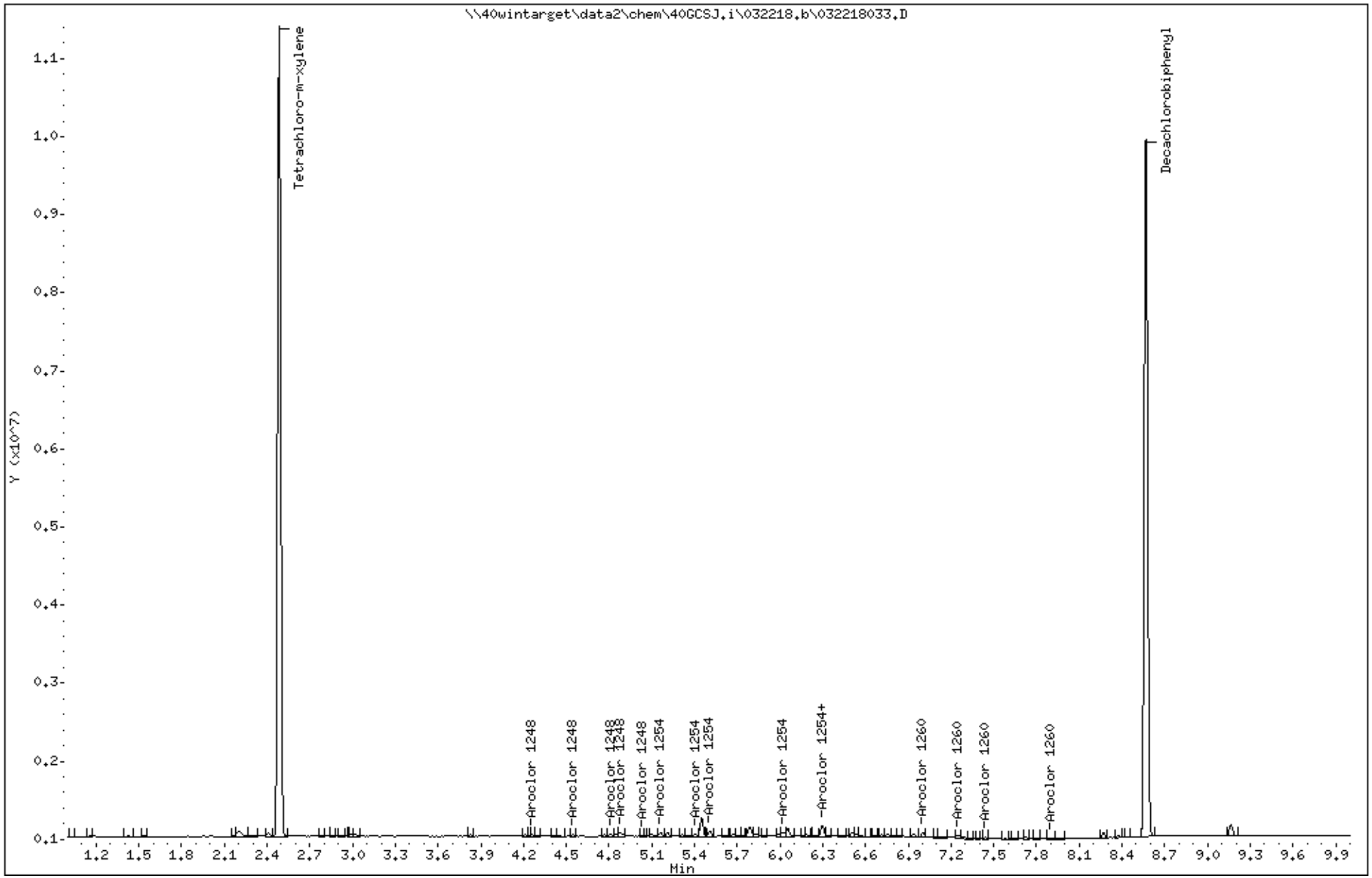
Sample Info: 40151612020,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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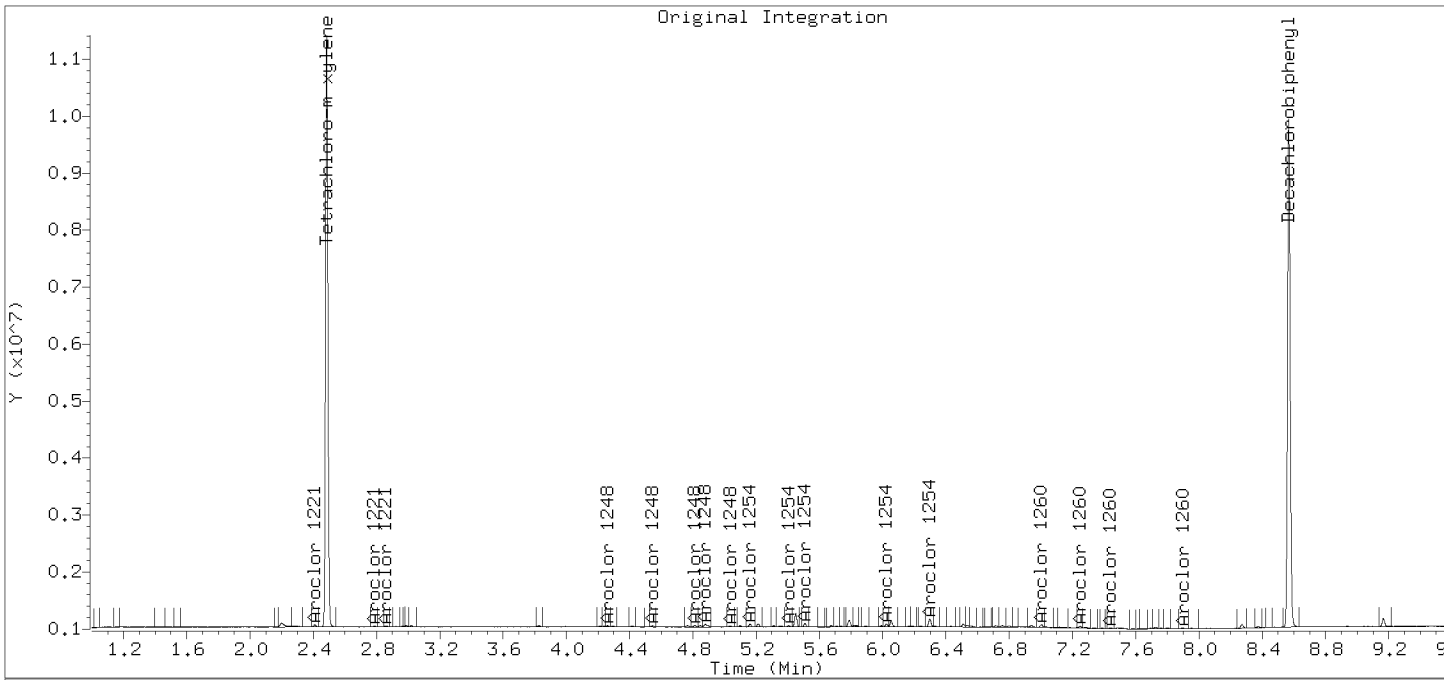
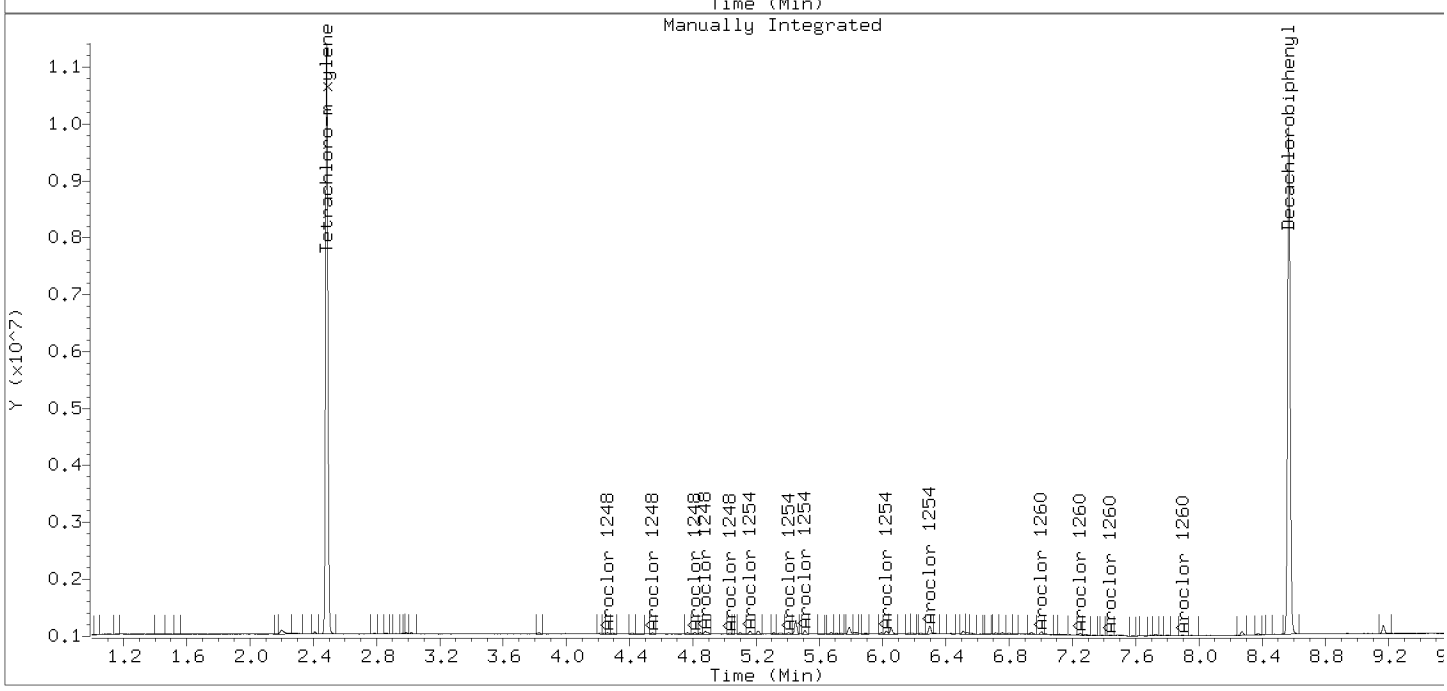
Injection Date: 22-MAR-2018 20:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151612020





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	24243	0	CO
Aroclor 1248	24243	0	CO
Aroclor 1248	24243	0	CO
Aroclor 1248	24243	0	CO
Aroclor 1248	24243	0	CO
Aroclor 1254	54378	0	BA
Aroclor 1254	54378	0	BA
Aroclor 1254	54378	0	BA
Aroclor 1254	54378	0	BA
Aroclor 1254	54378	0	BA
Aroclor 1260	154752	0	BA
Aroclor 1260	154752	0	BA
Aroclor 1260	154752	0	BA
Aroclor 1260	154752	0	BA
Aroclor 1260	154752	0	BA
Tetrachloro-m-xylene	10519802	10519802	
Decachlorobiphenyl	10238175	10238175	

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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.: 40151612

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.: 40151612

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.: 40151612

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.: 40151612

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.: 40151612

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.

05/11/2018 10:30

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.: 40151612

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.: 40151612

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

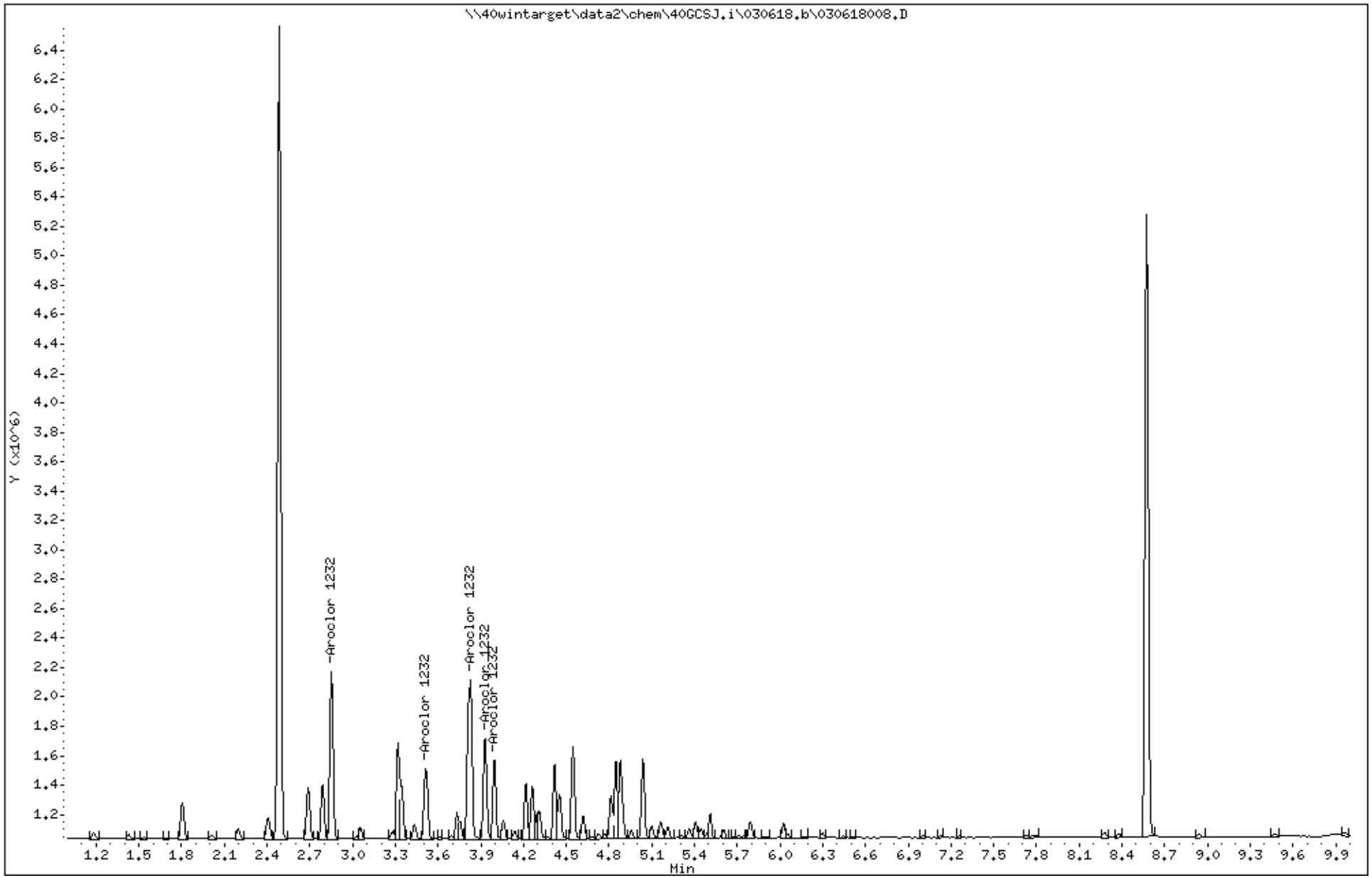
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

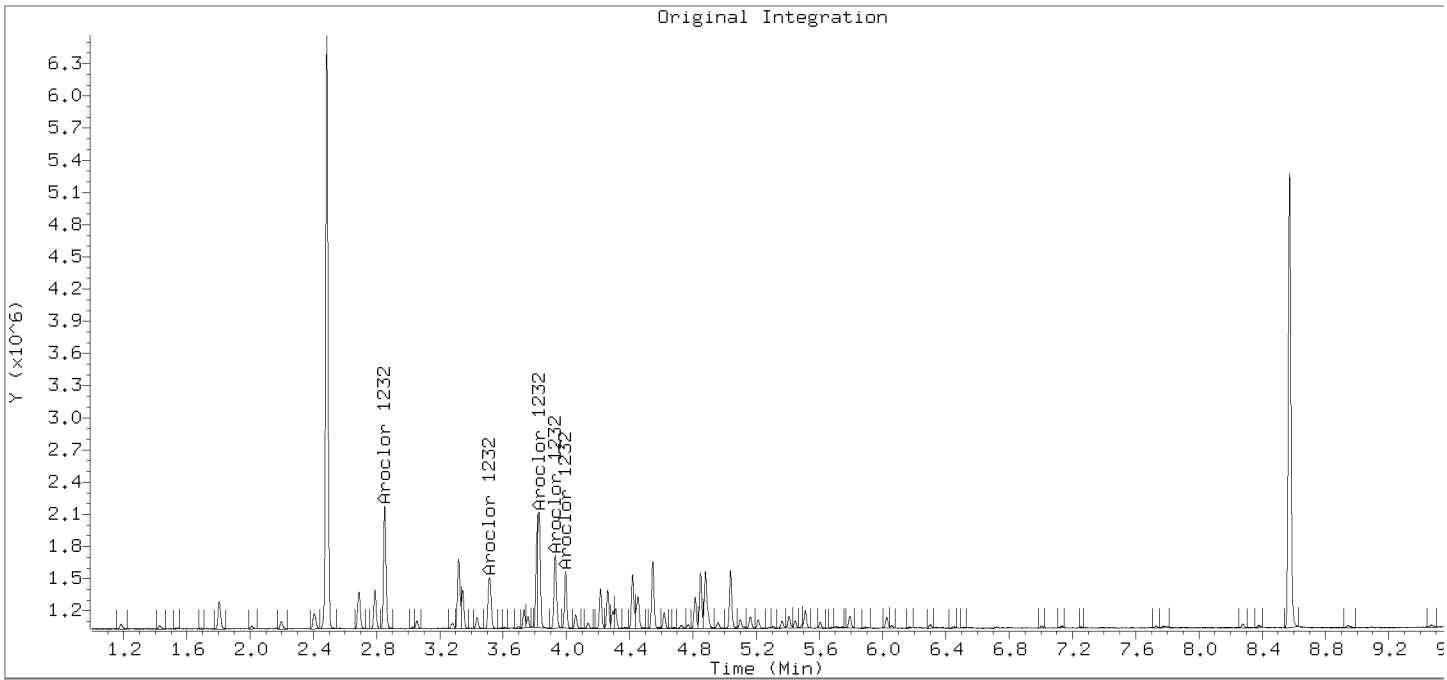
Operator: BLM

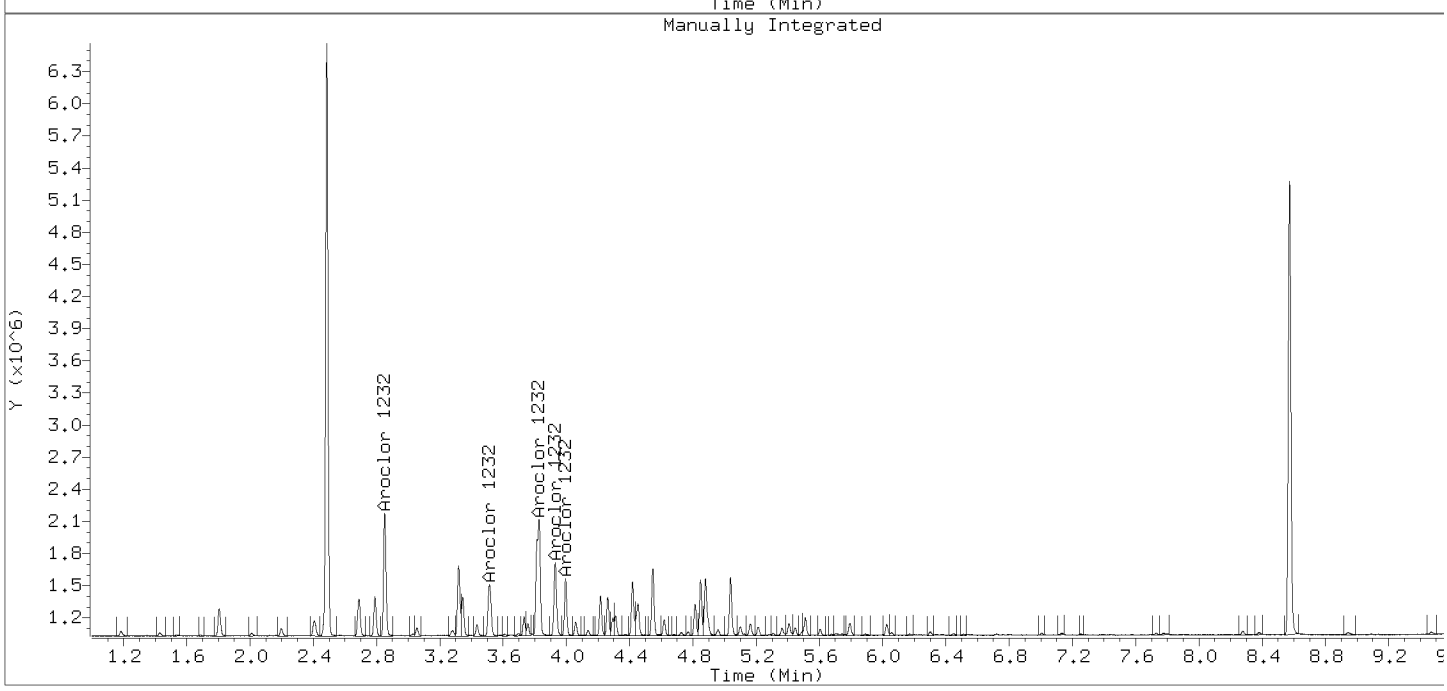
Column phase: ZB-1ms

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

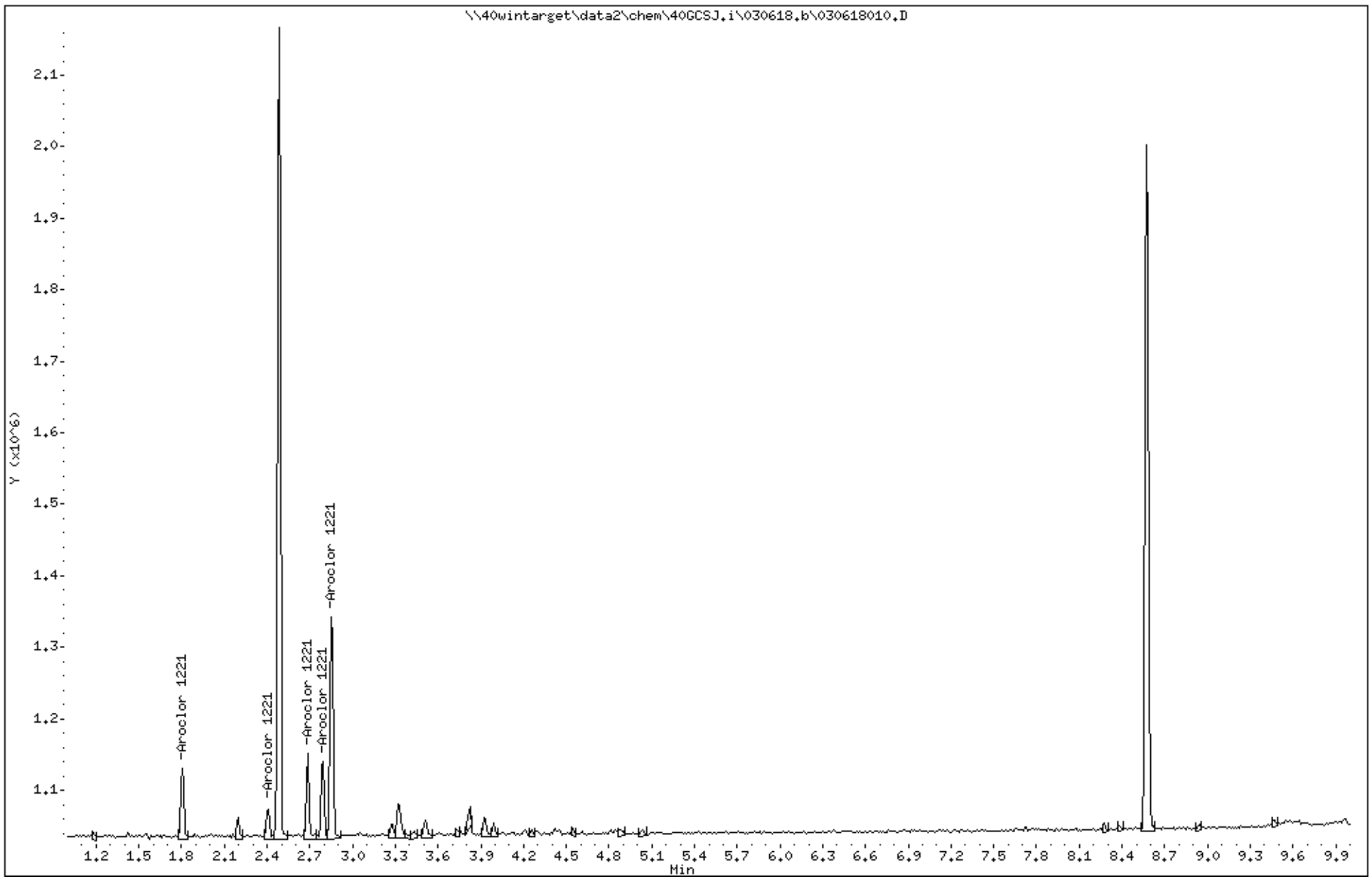
M - Compound response manually integrated.

Review Codes Legend

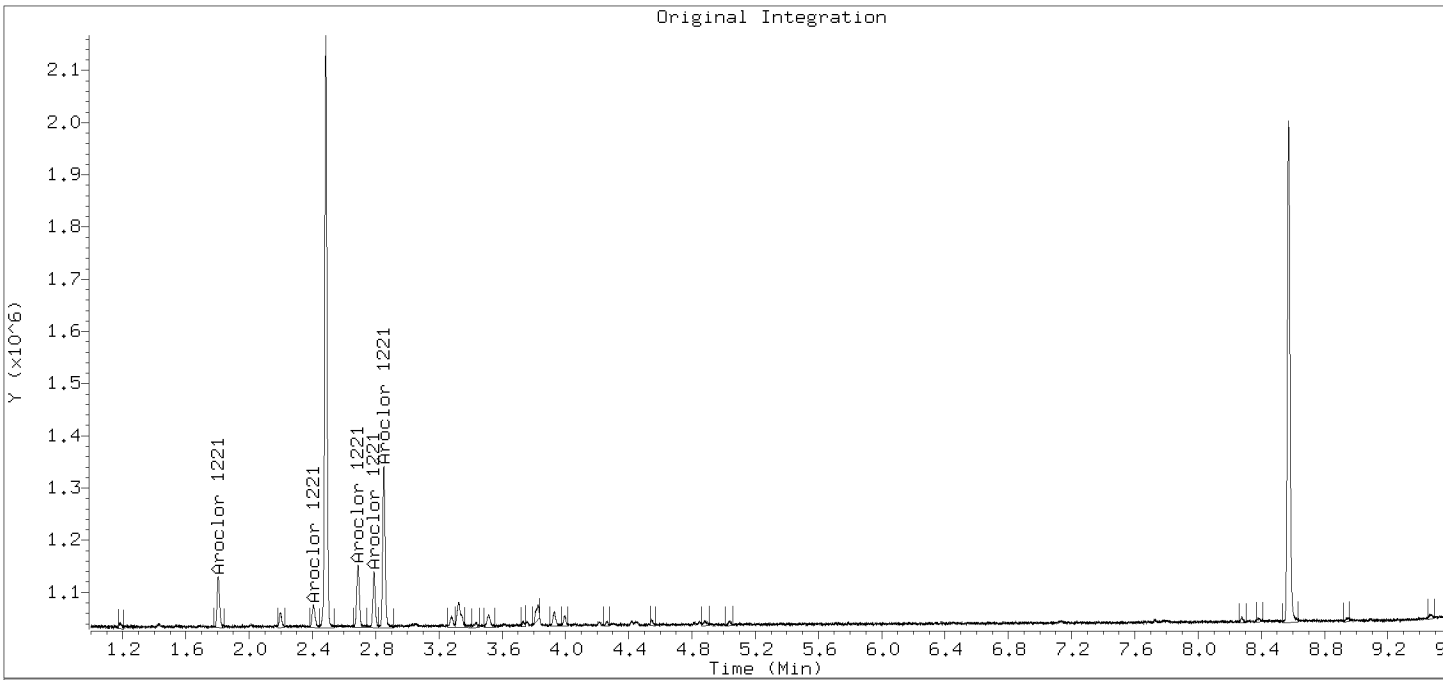
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

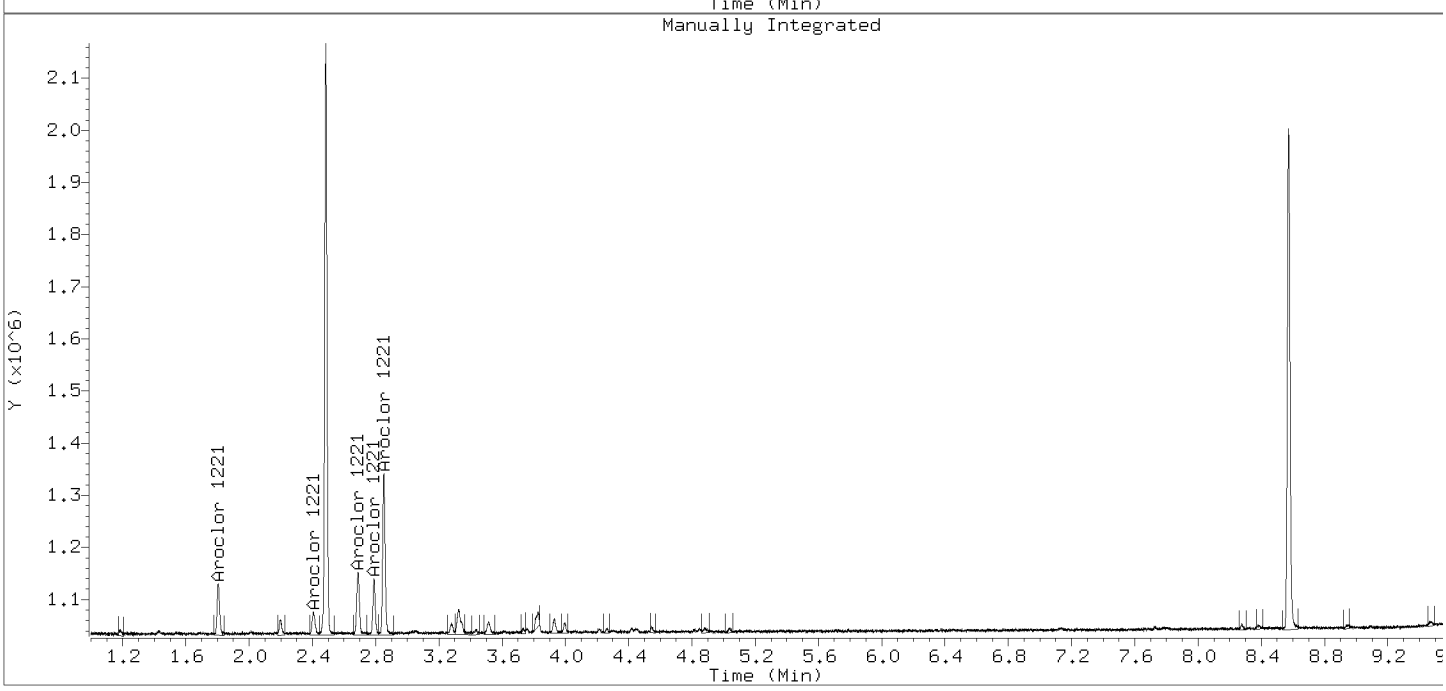
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

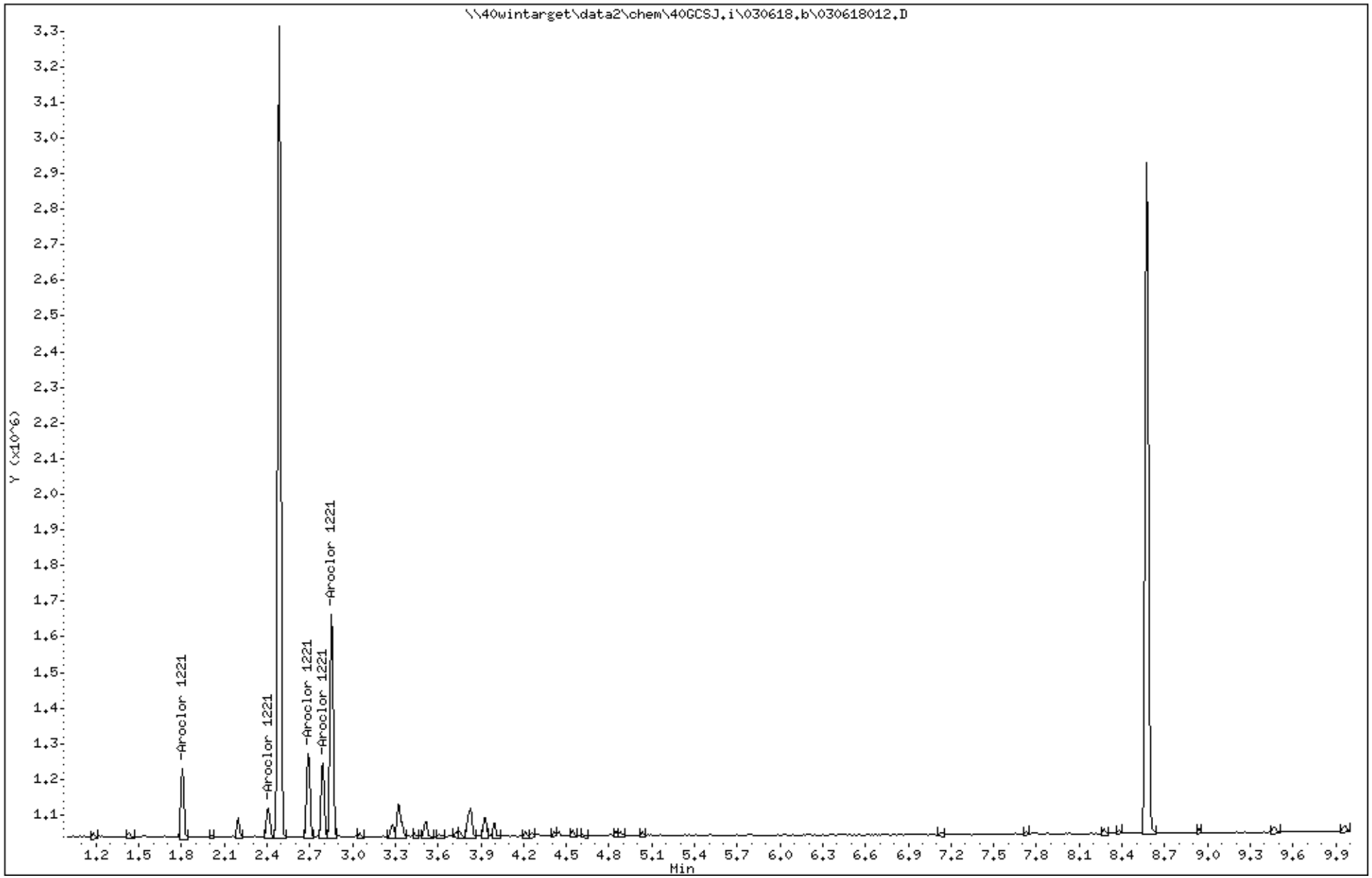
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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



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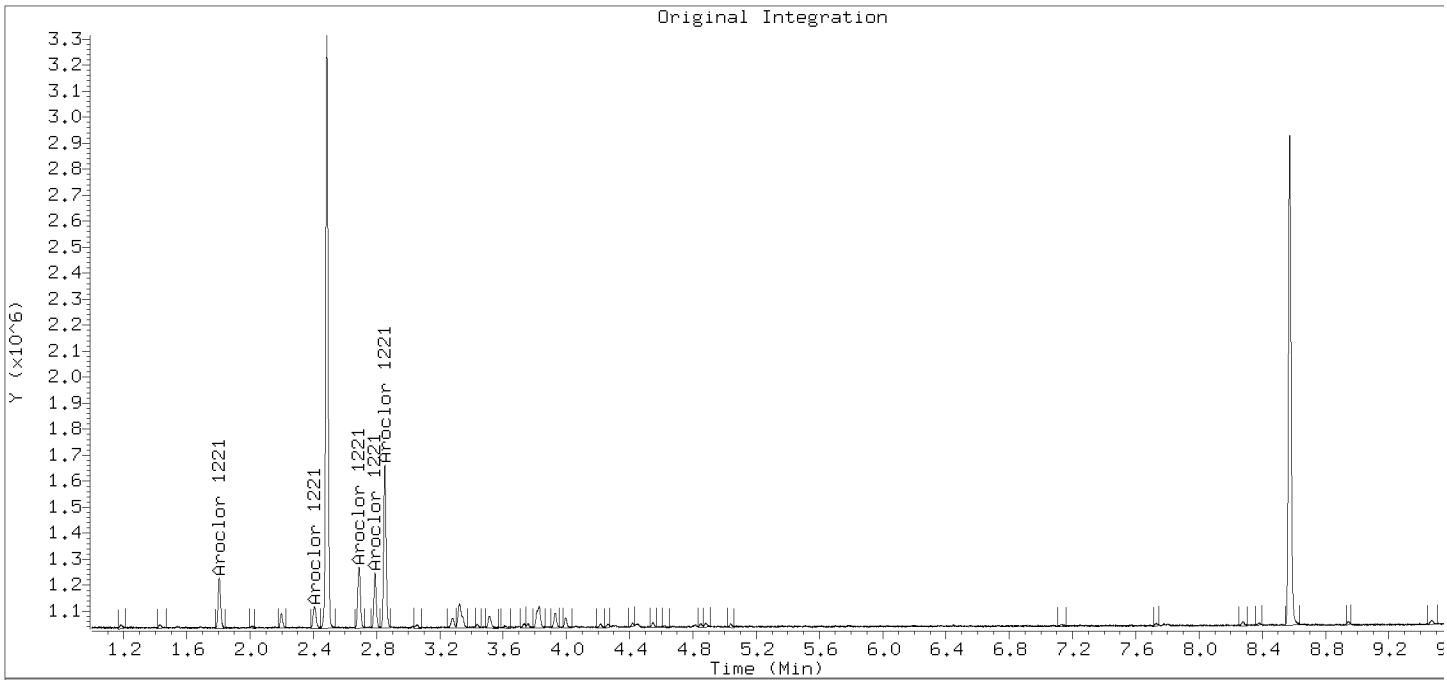
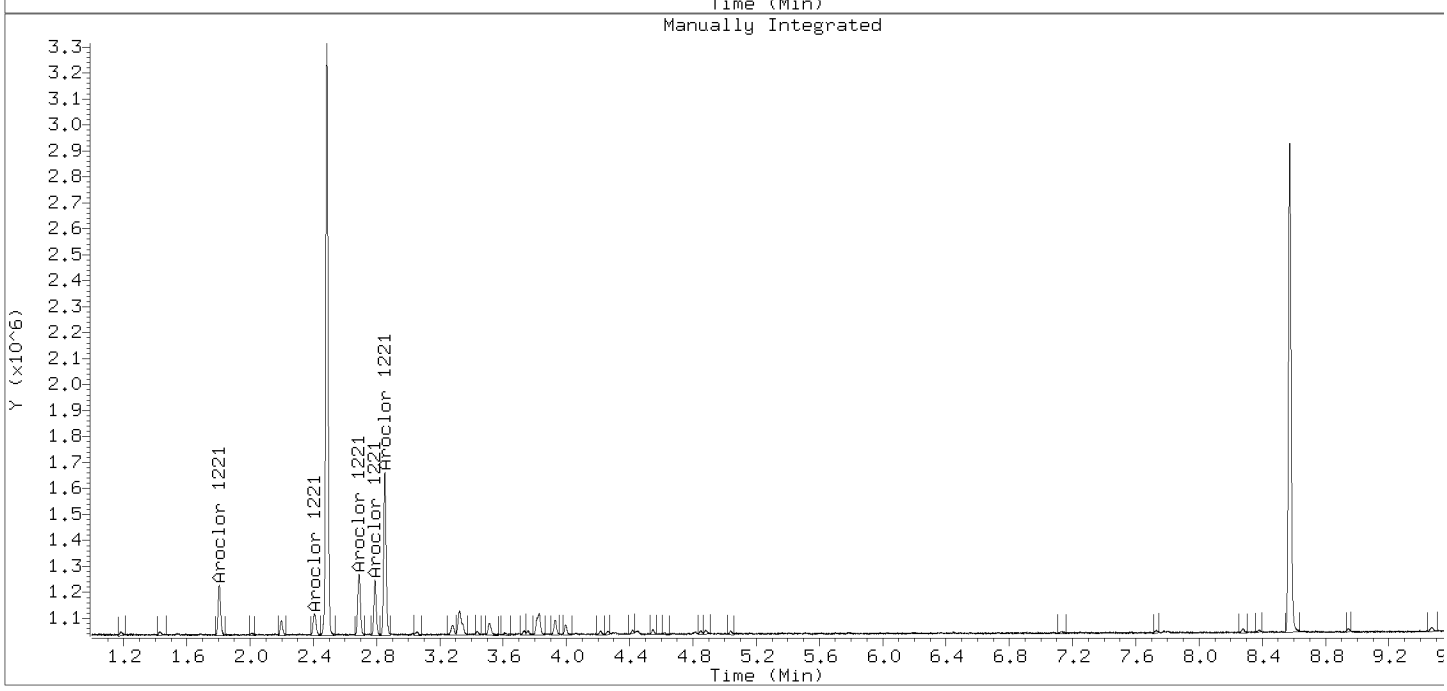
Injection Date: 06-MAR-2018 12:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL2F





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

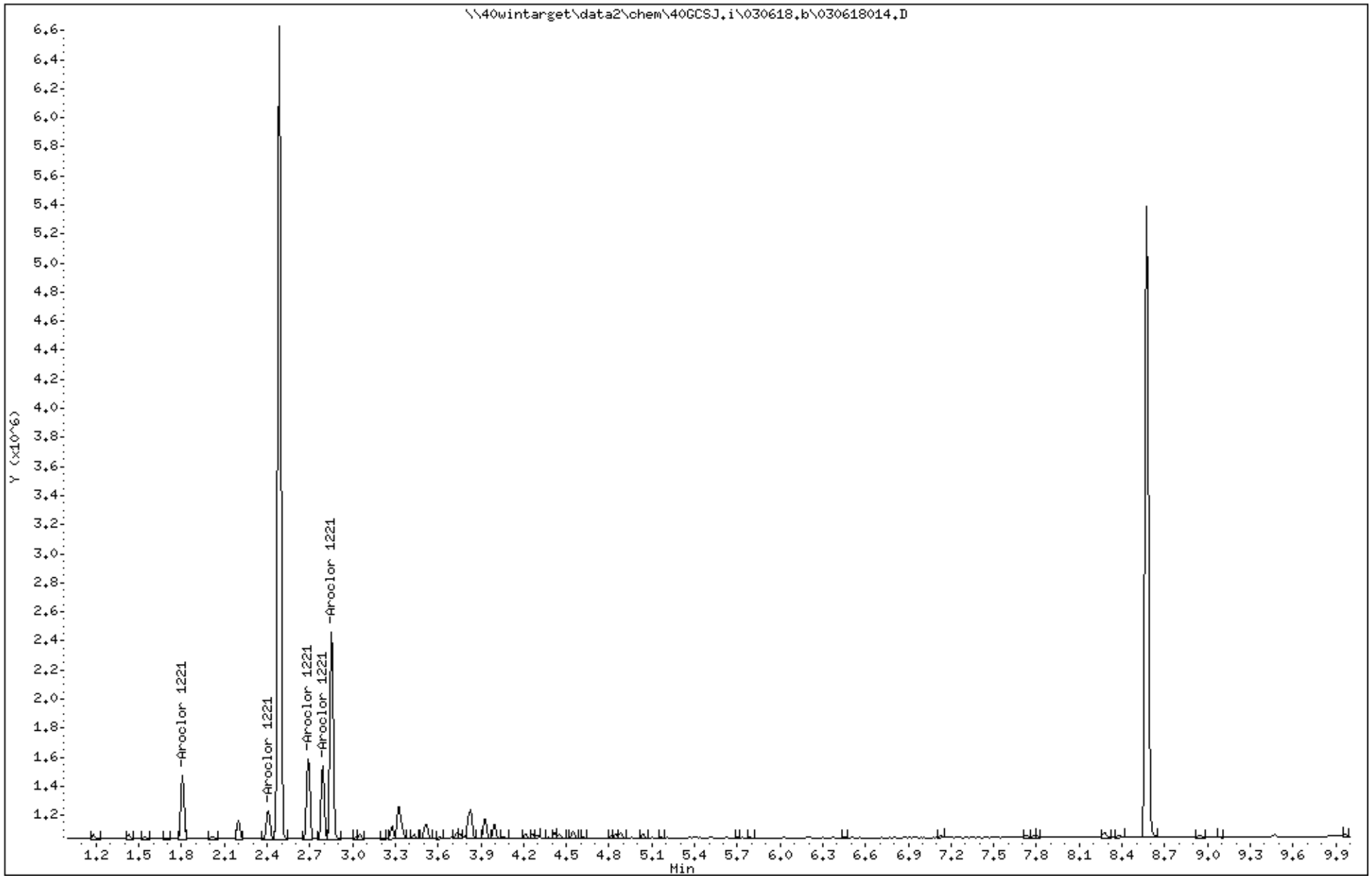
M - Compound response manually integrated.

Review Codes Legend

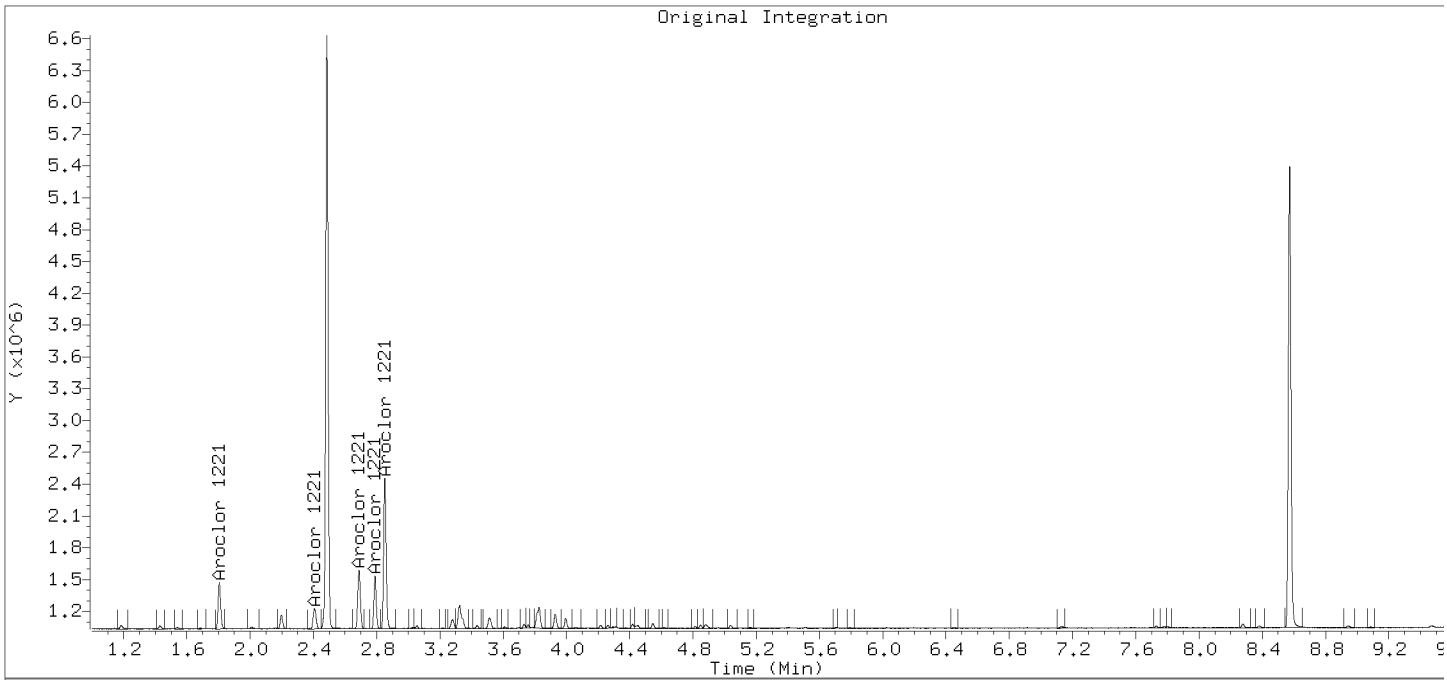
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

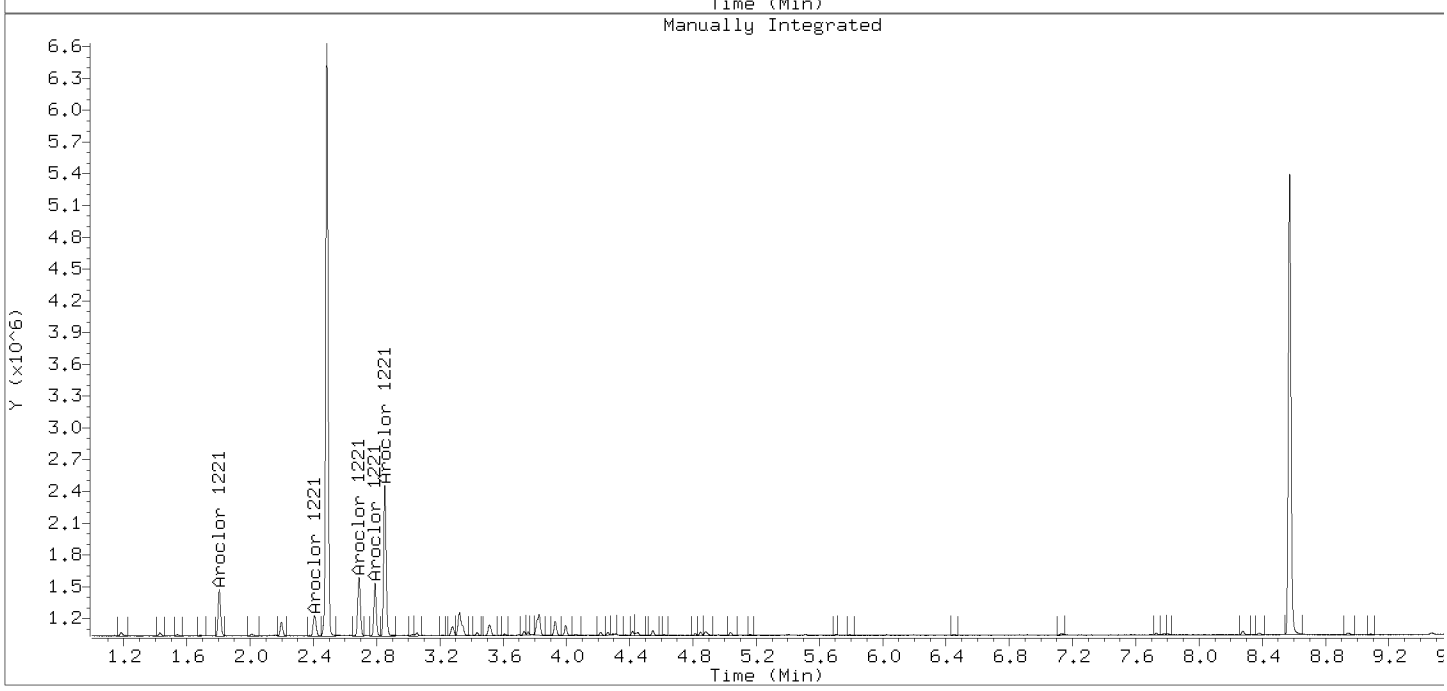
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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

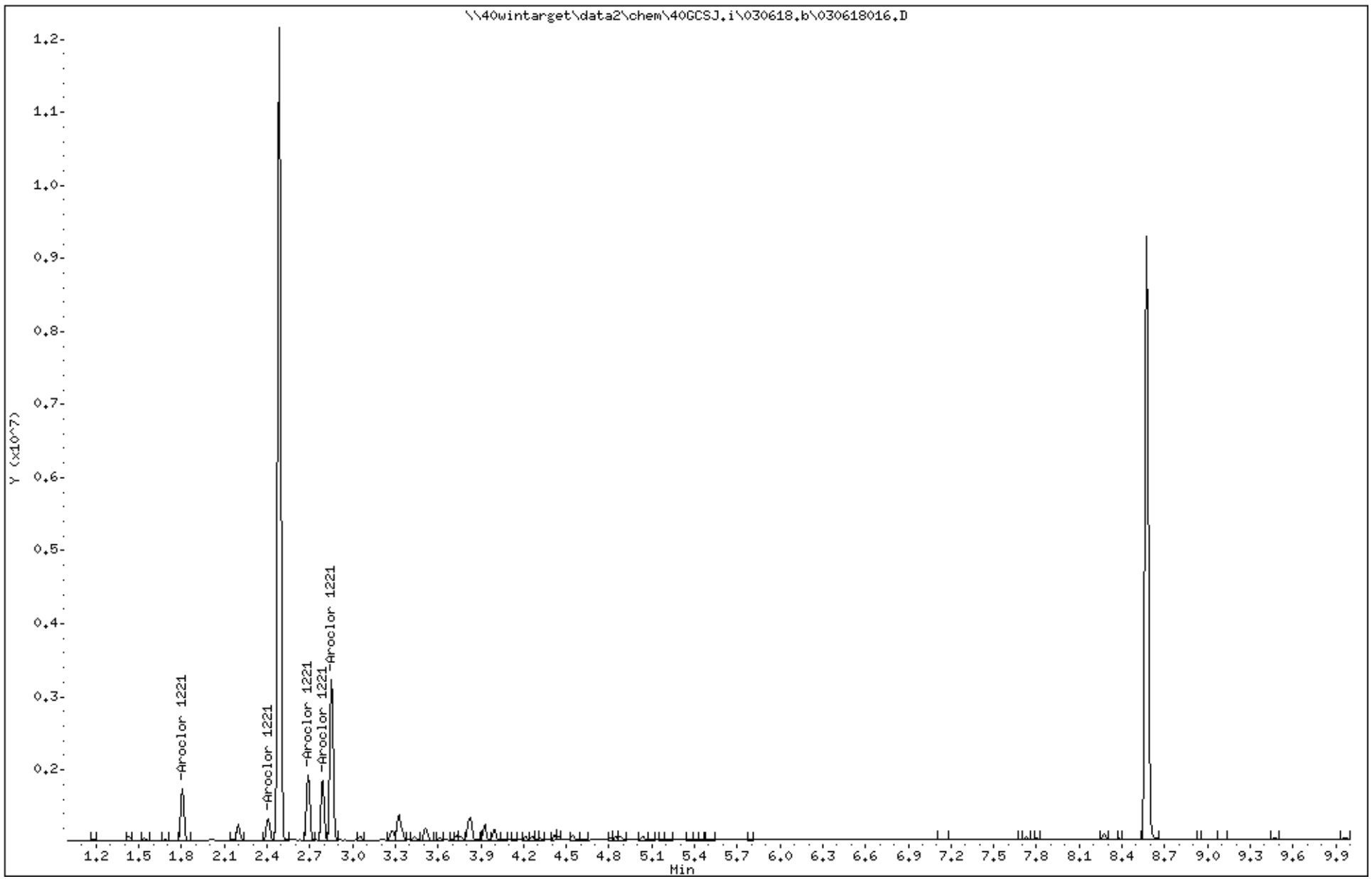
M - Compound response manually integrated.

Review Codes Legend

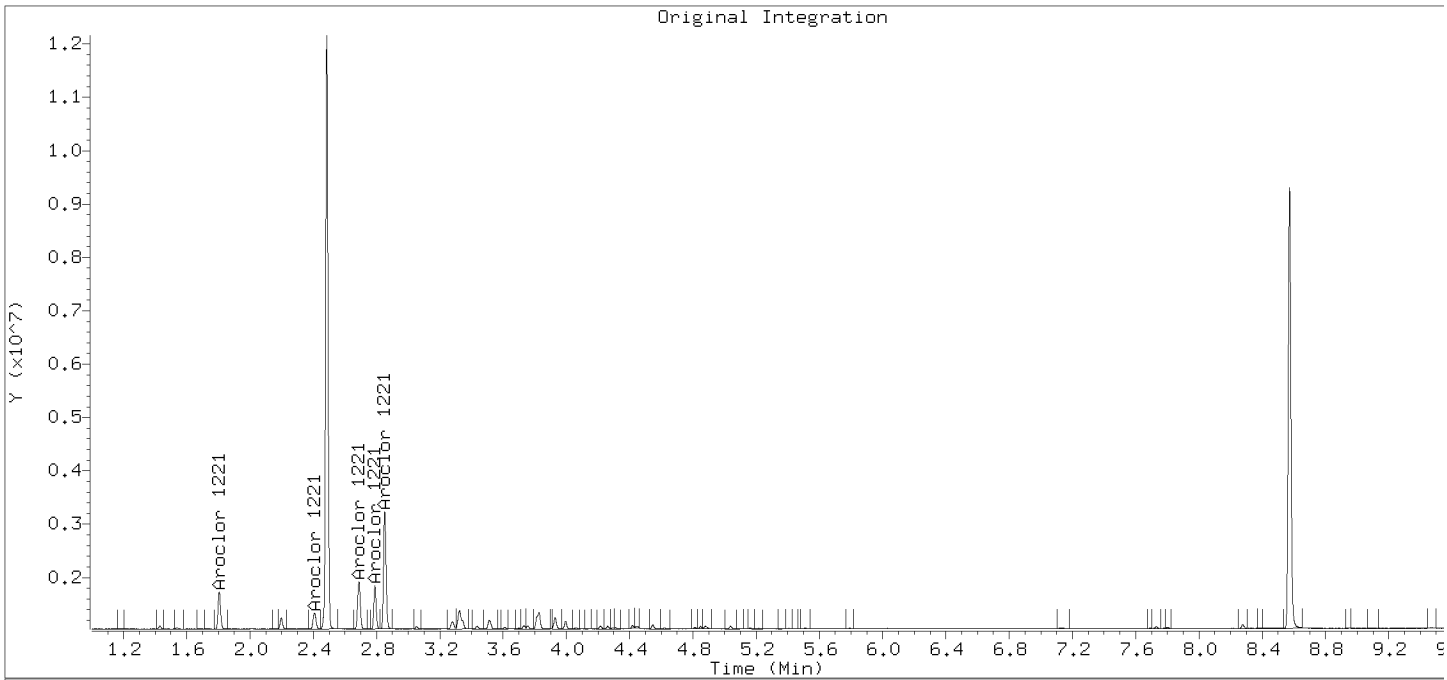
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

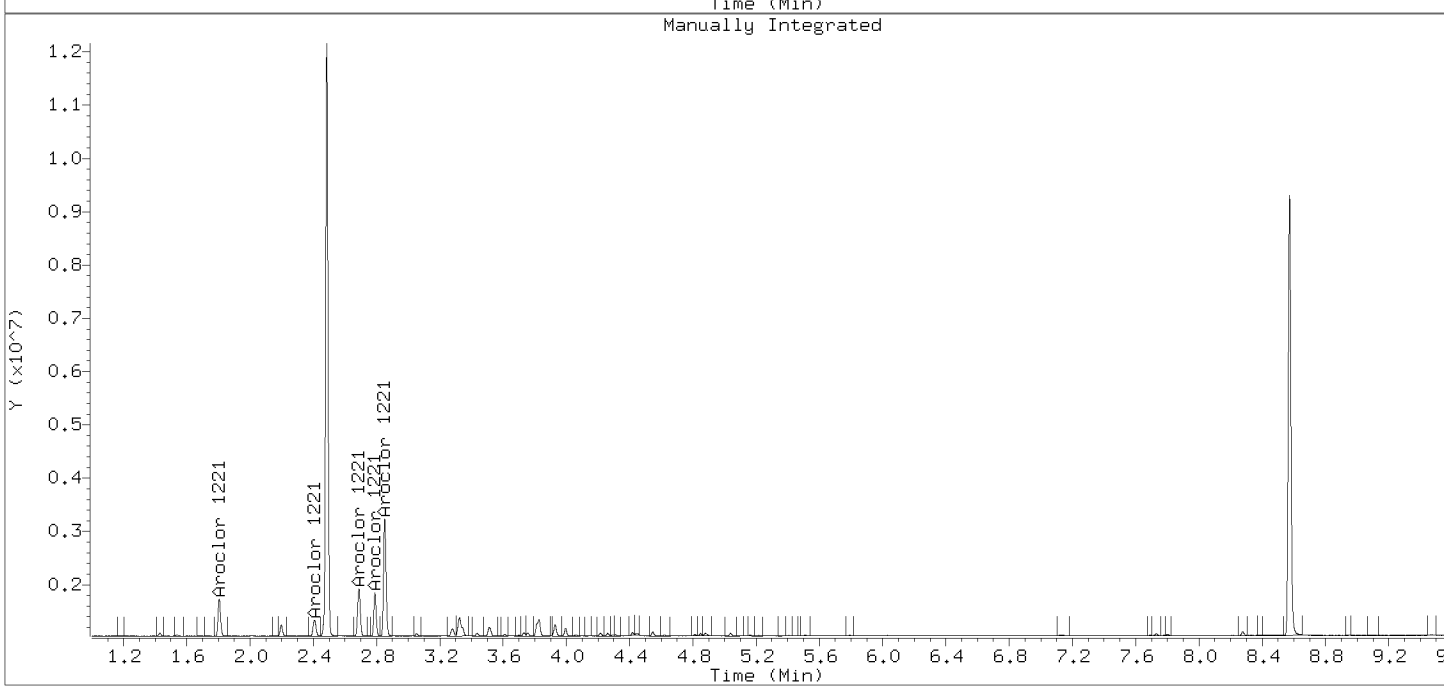
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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

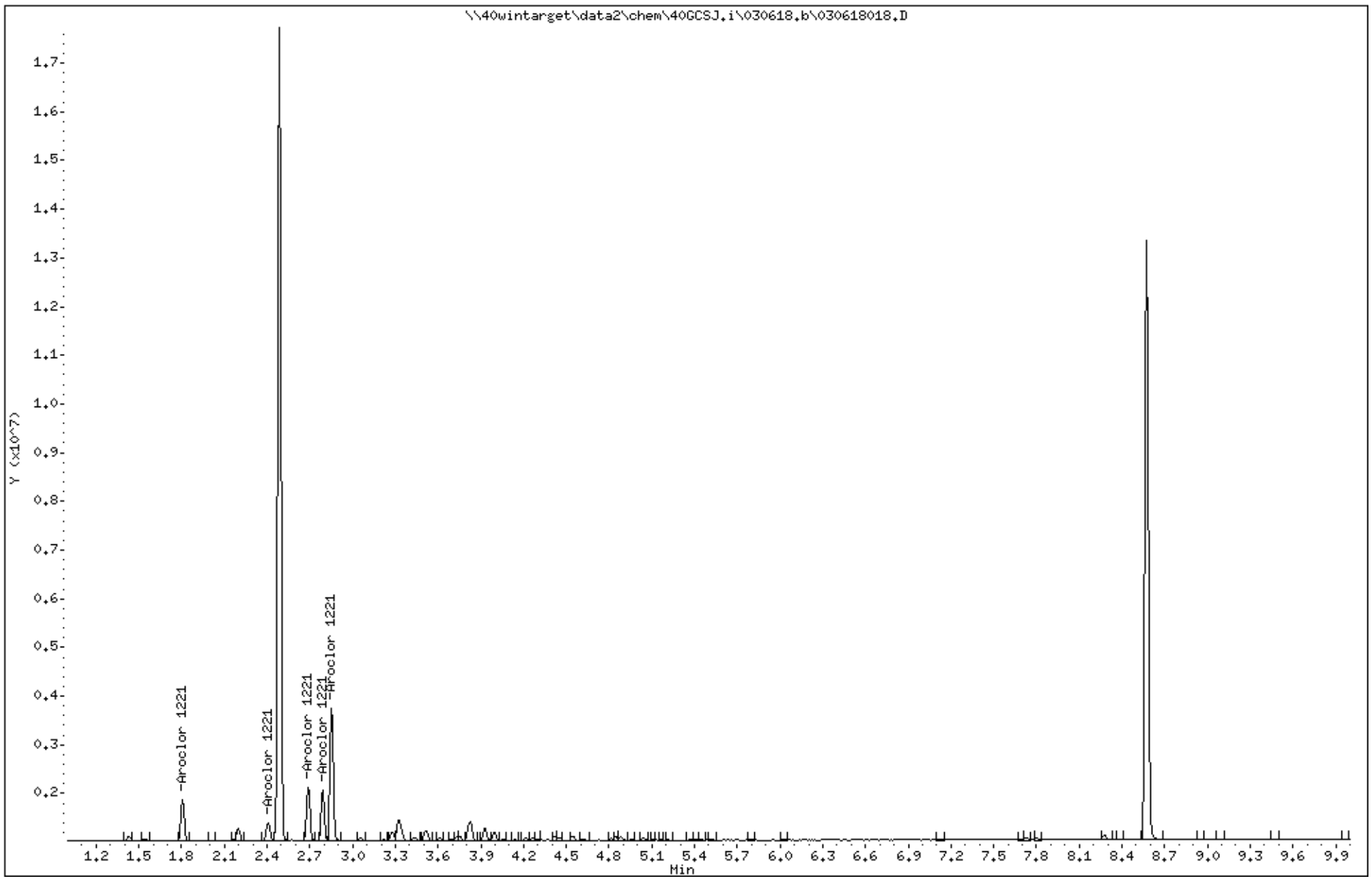
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

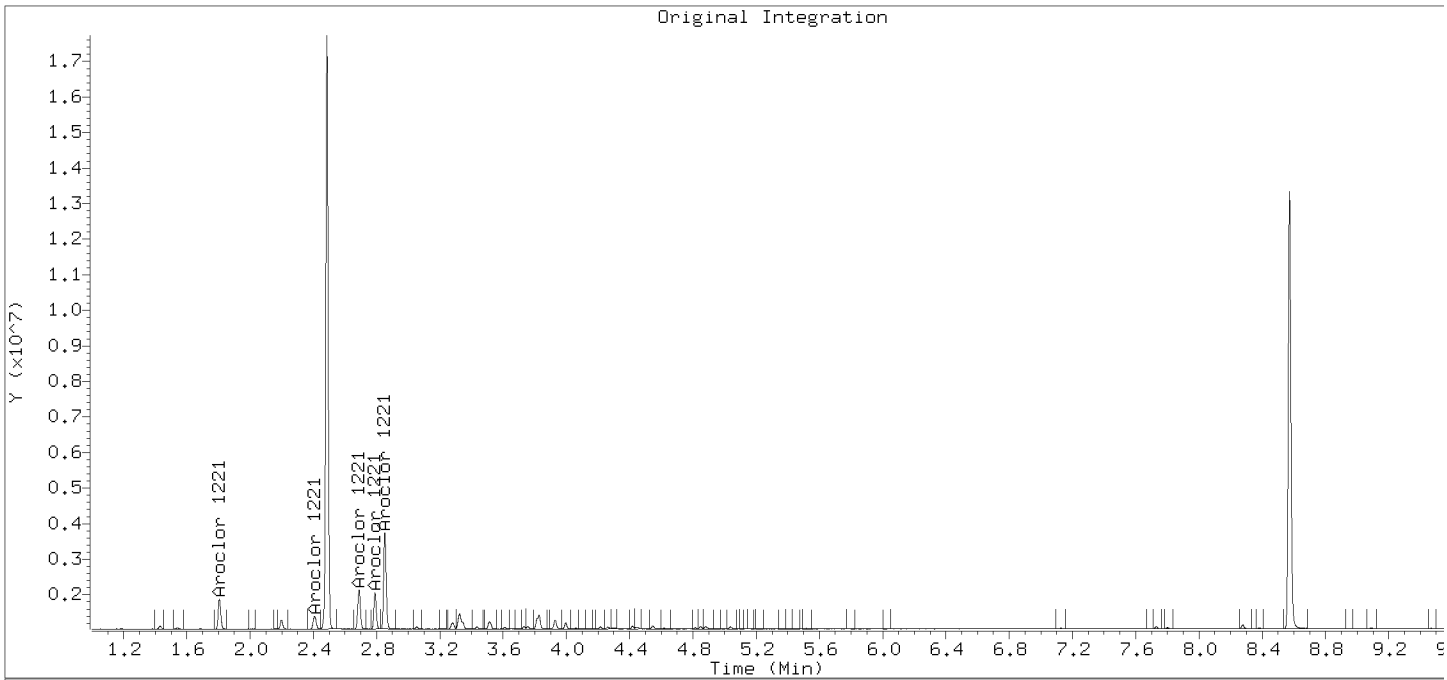
Operator: BLM

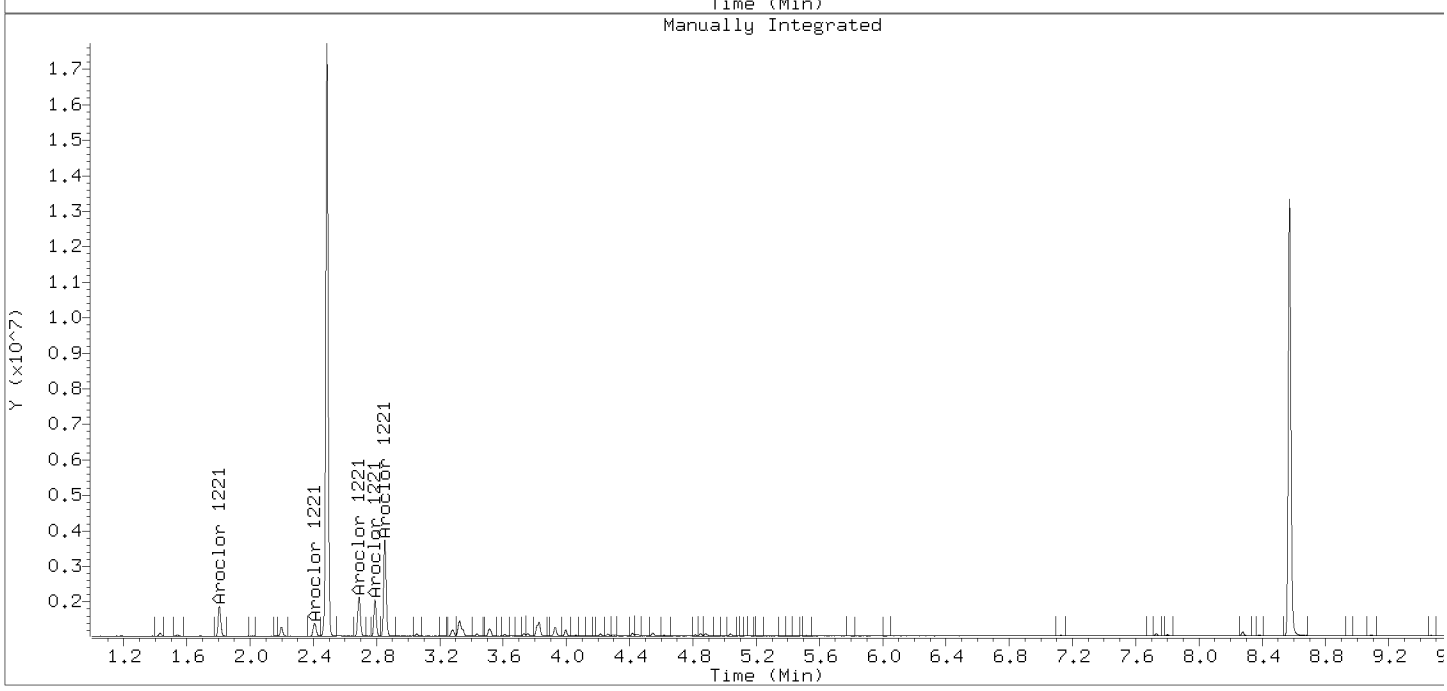
Column phase: ZB-1ms

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

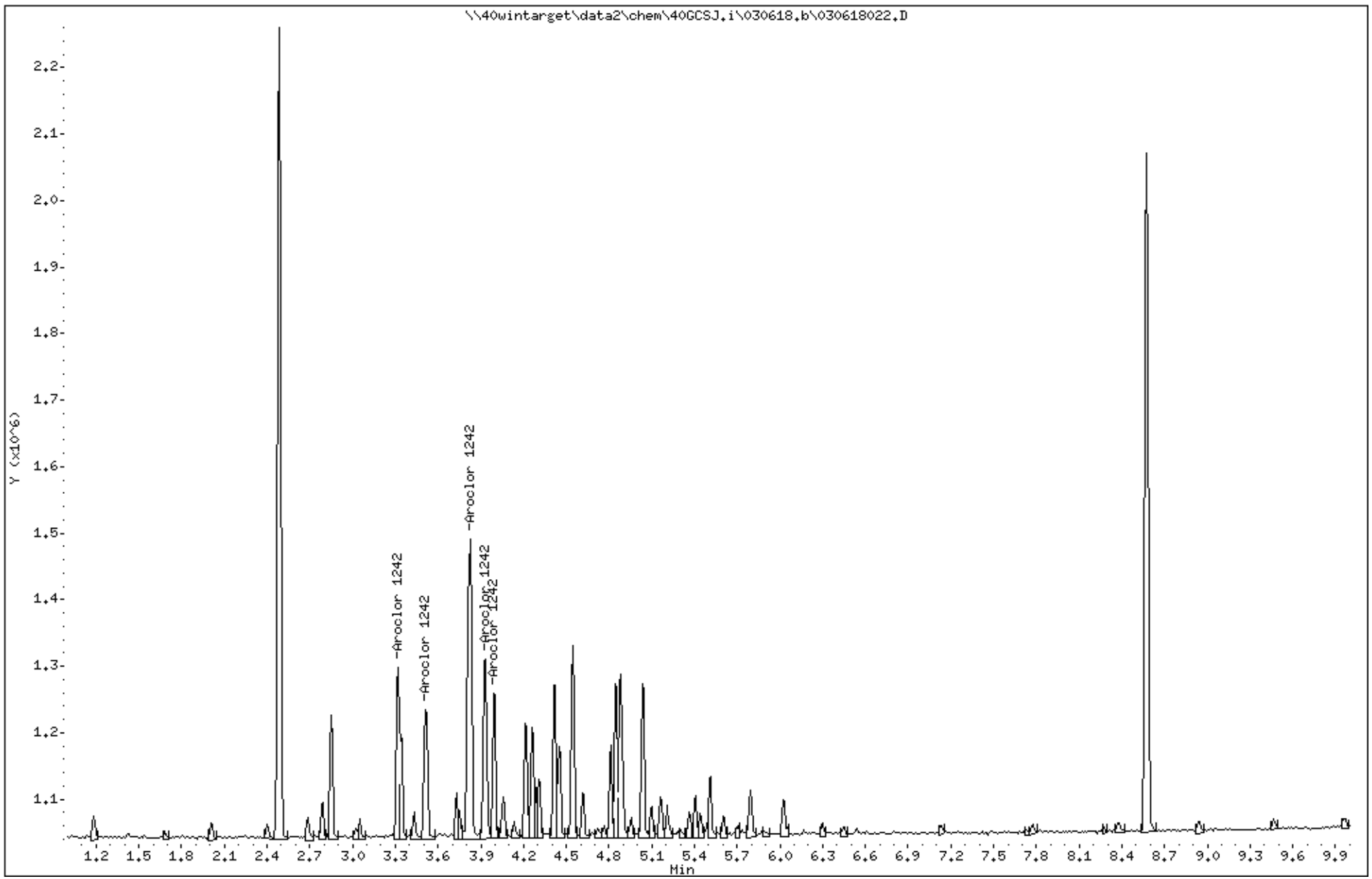
M - Compound response manually integrated.

Review Codes Legend

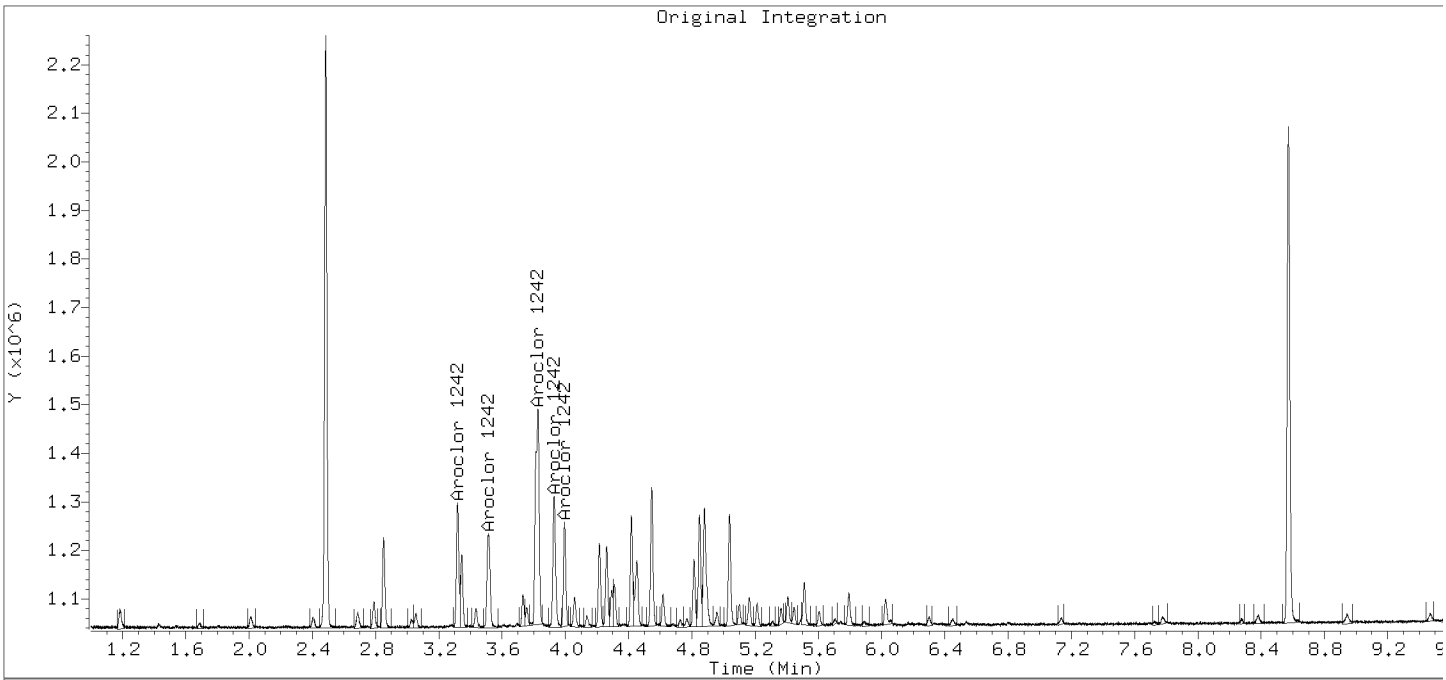
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

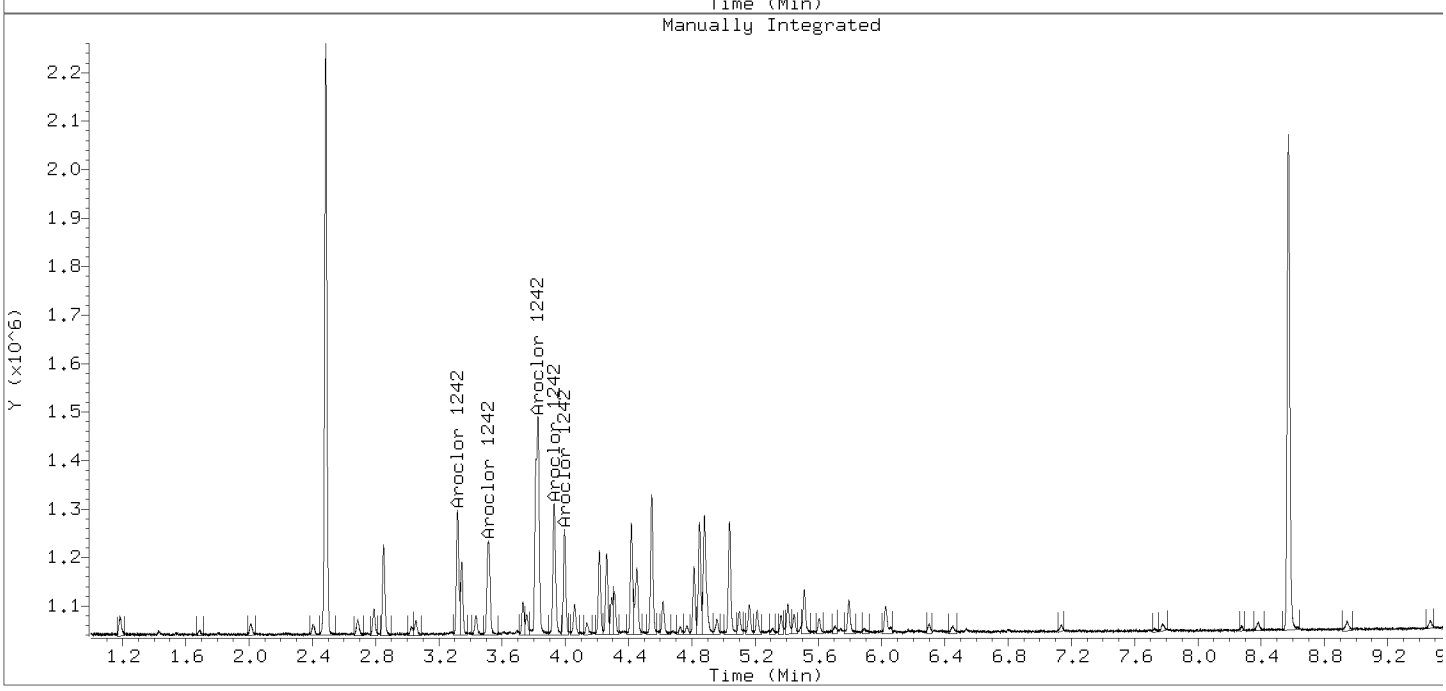
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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

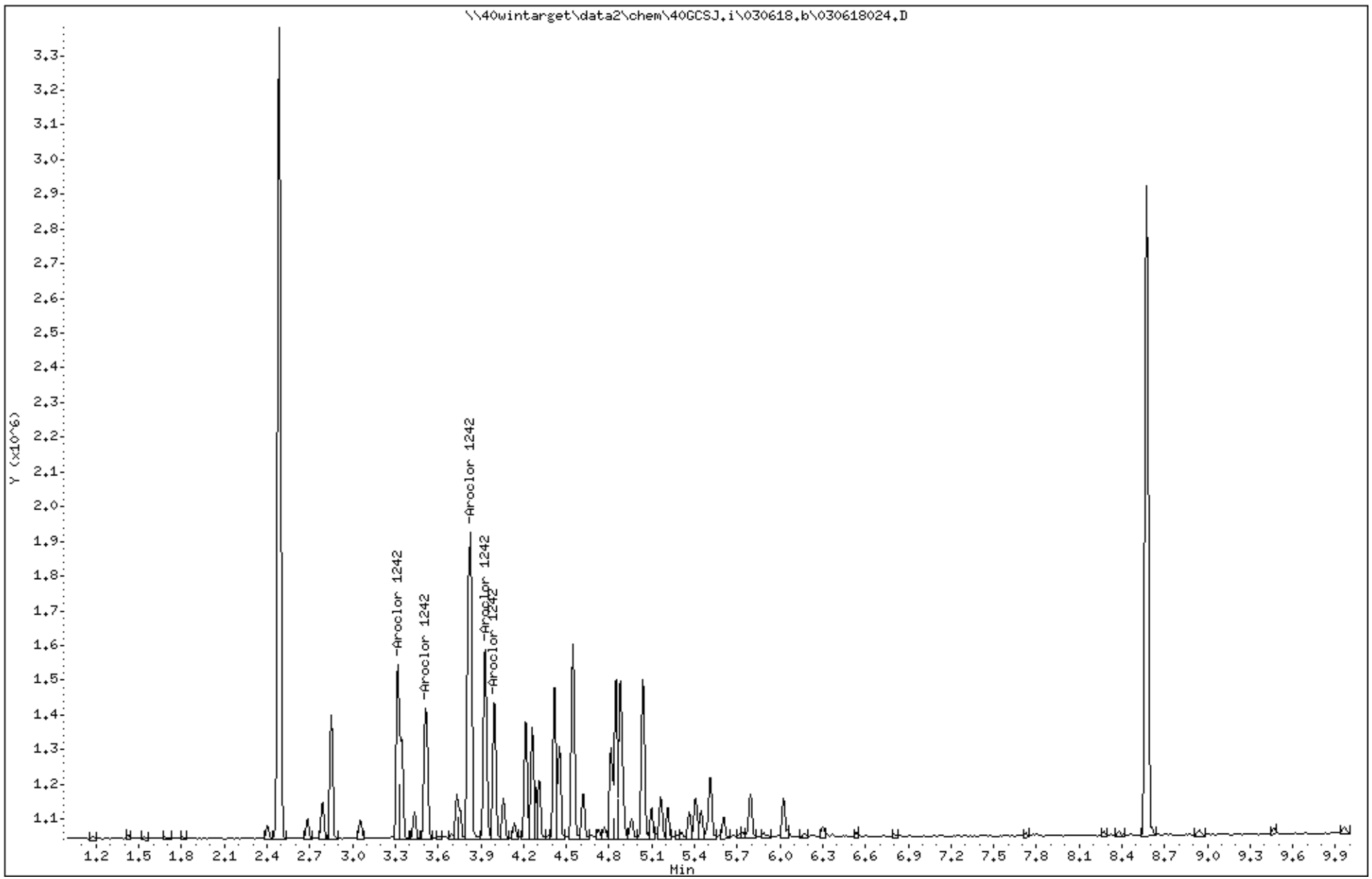
M - Compound response manually integrated.

Review Codes Legend

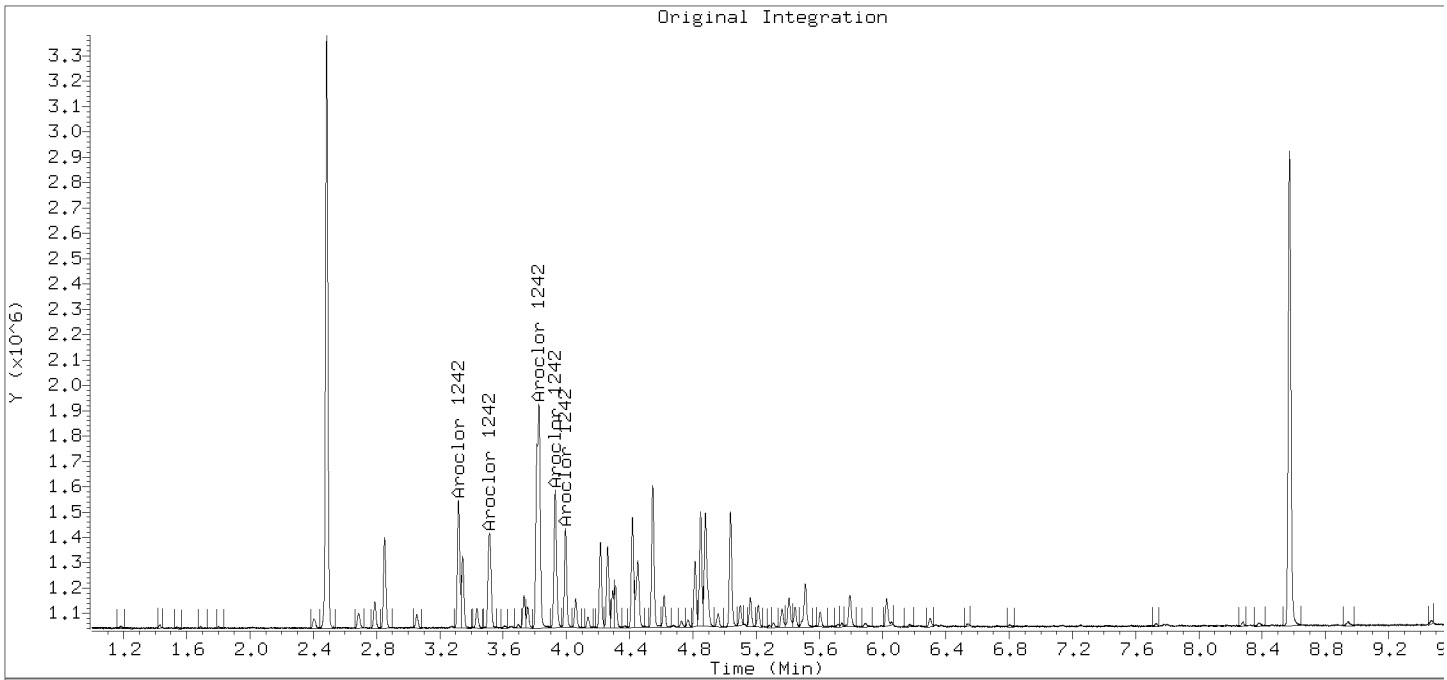
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

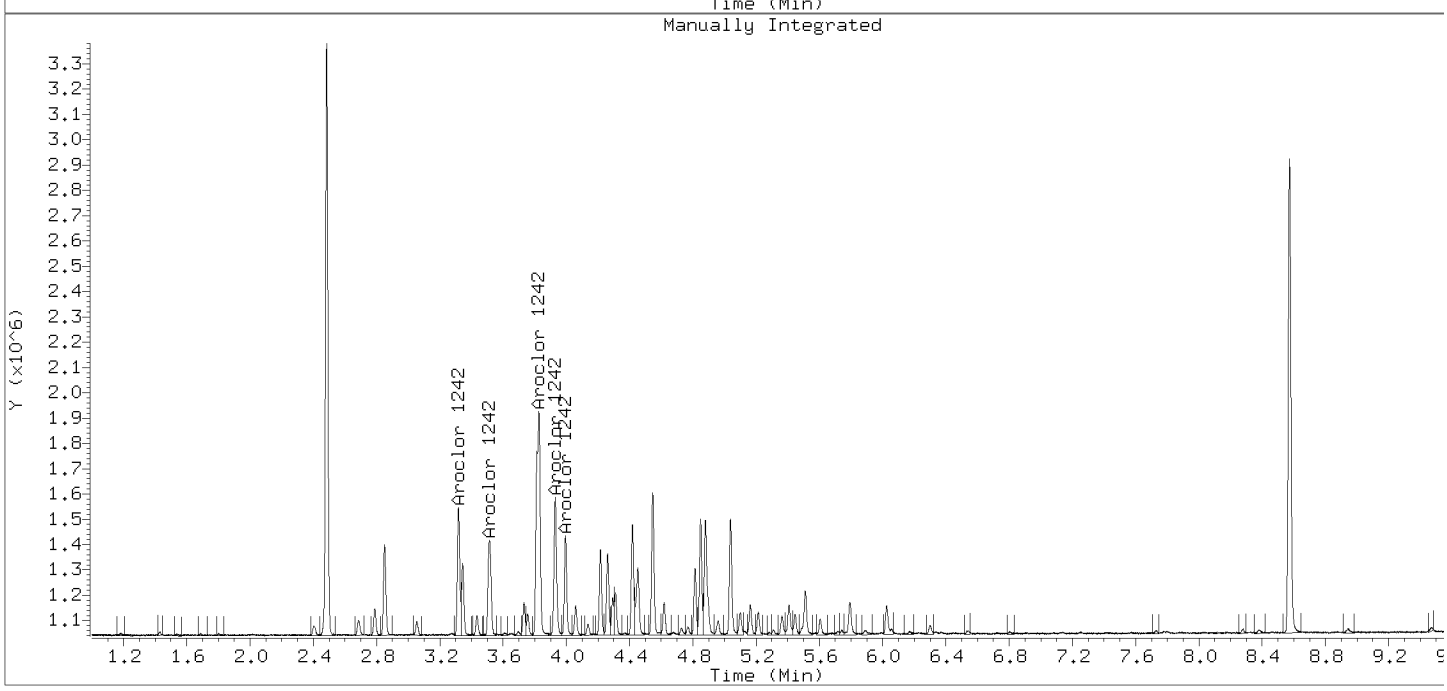
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

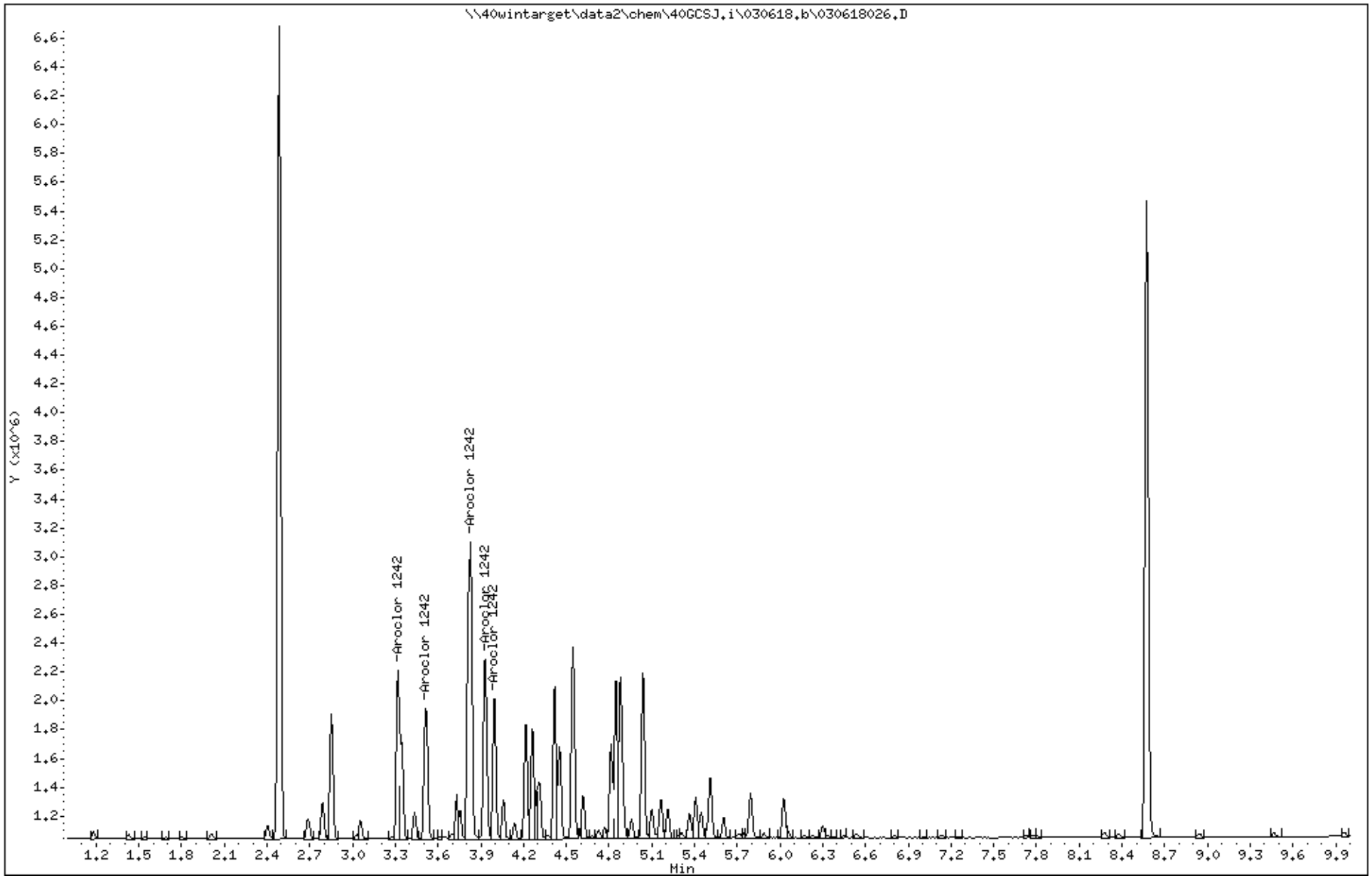
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

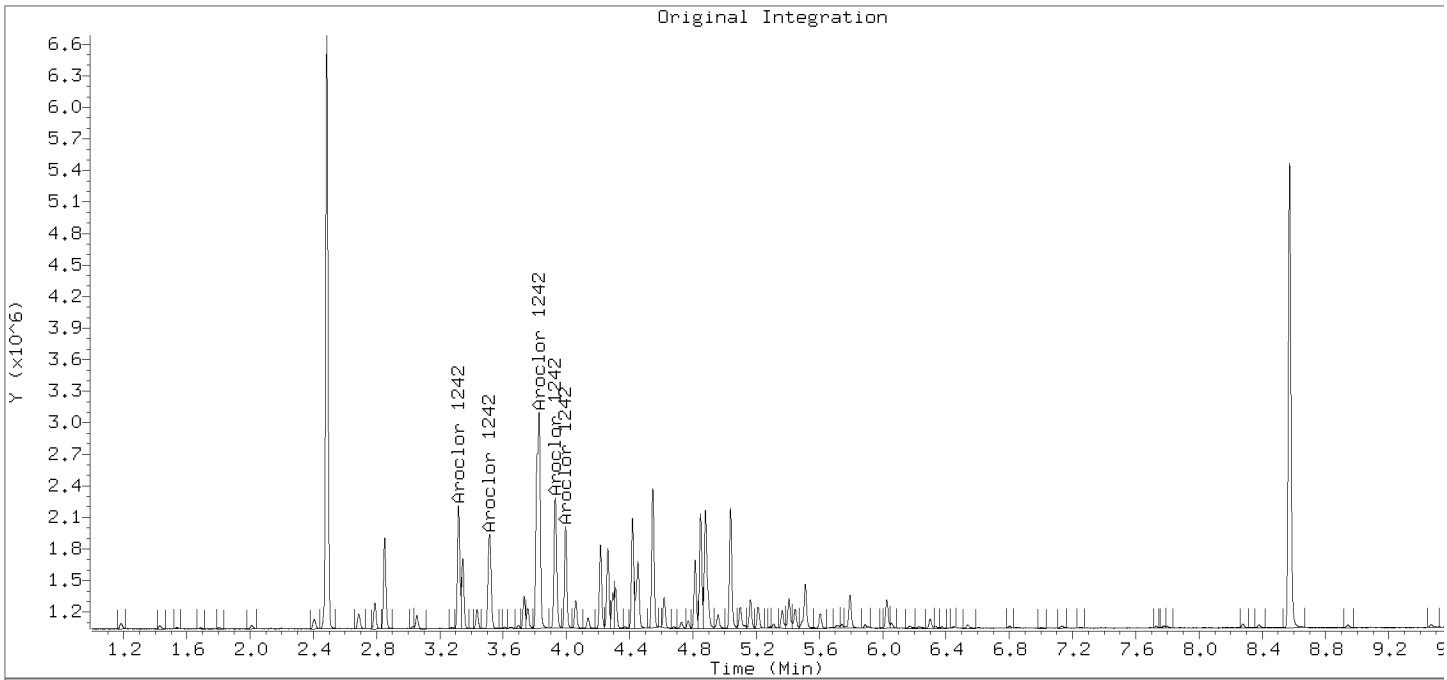
Operator: BLM

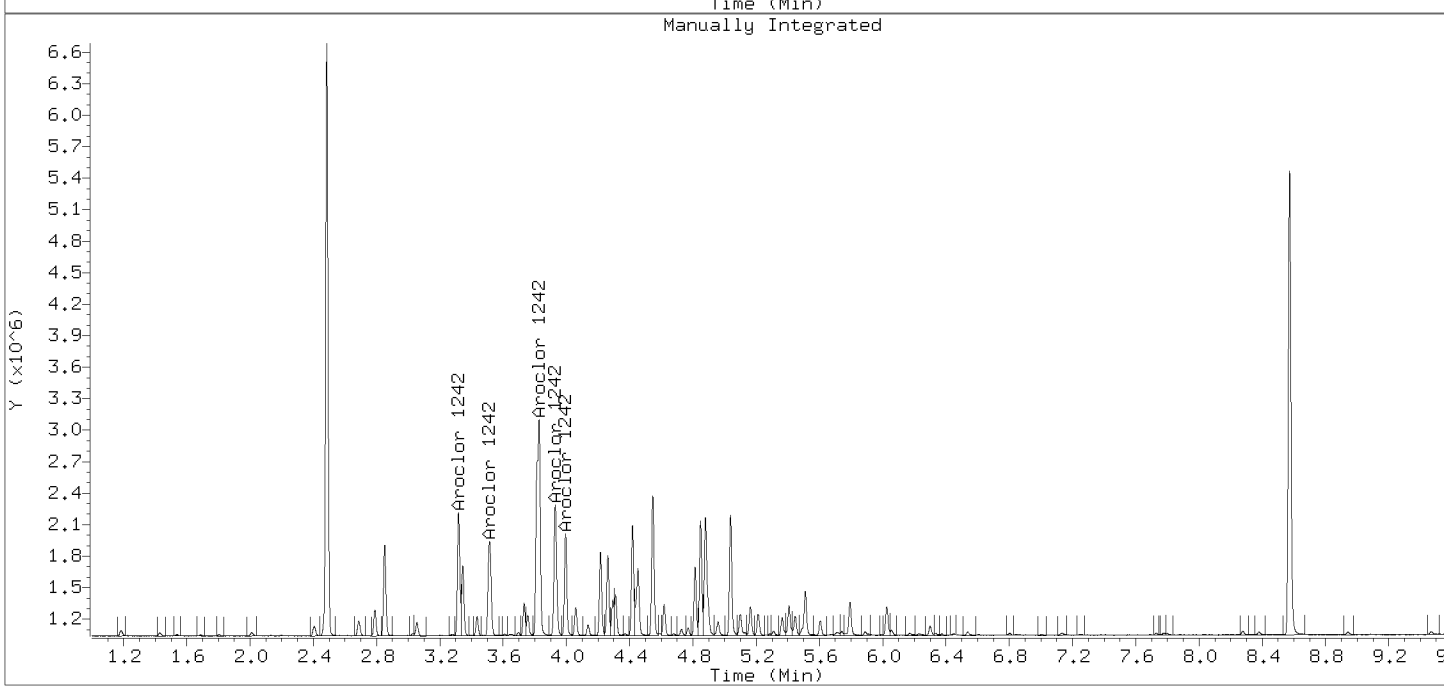
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

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SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

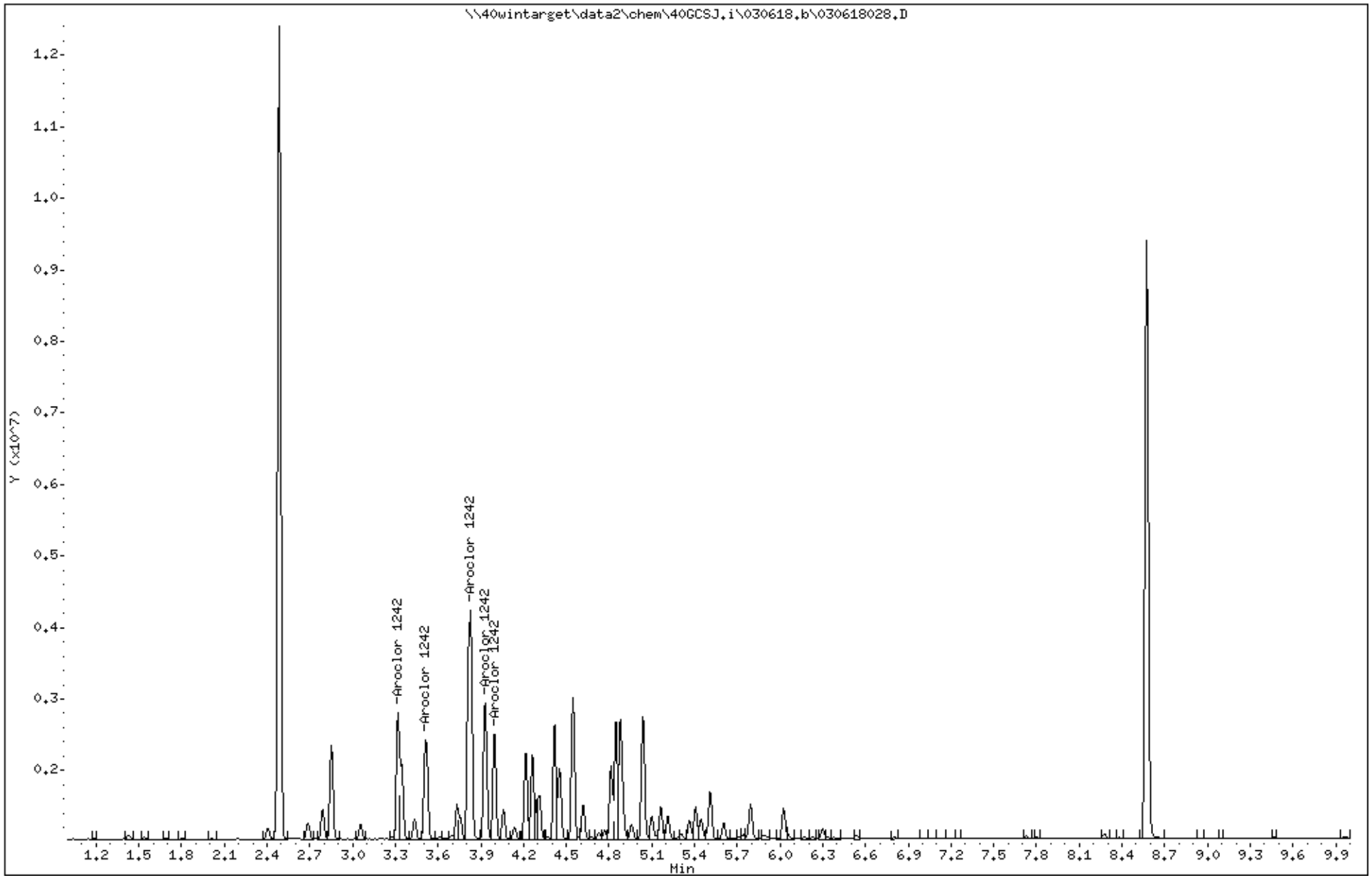
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

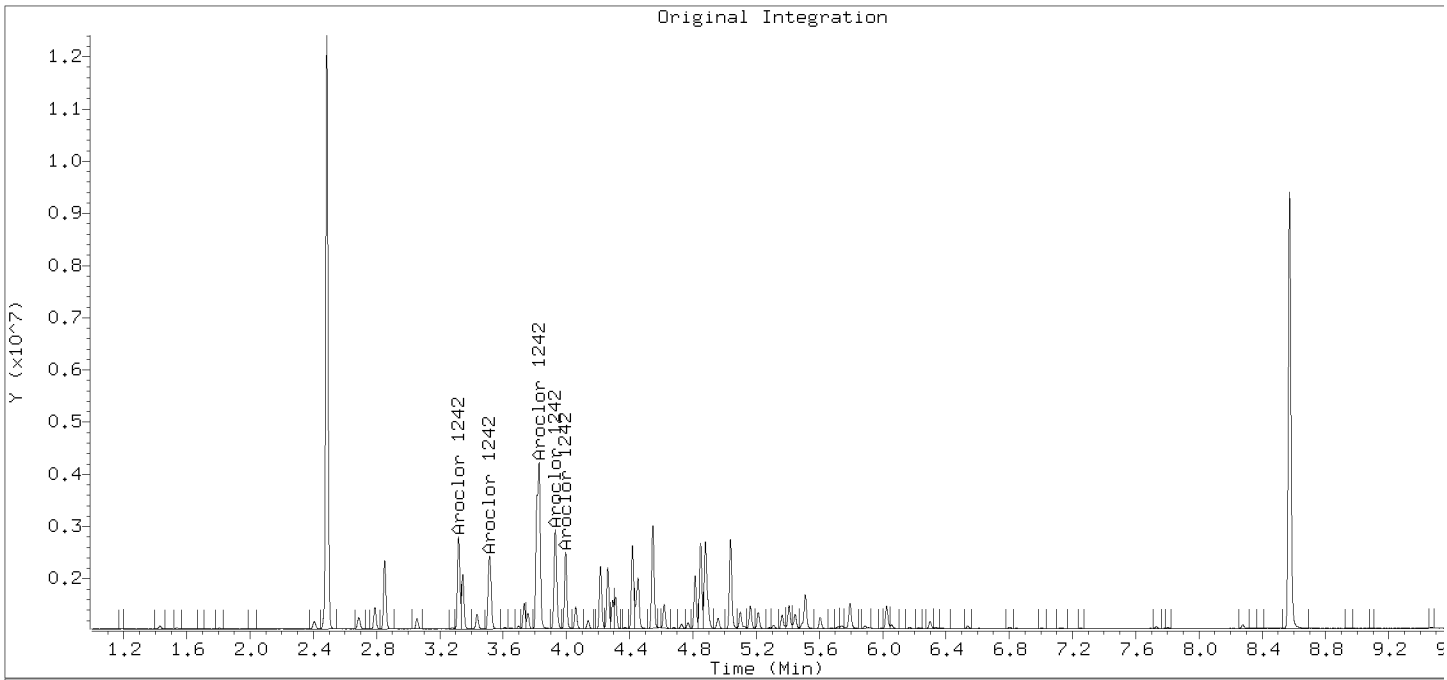
Operator: BLM

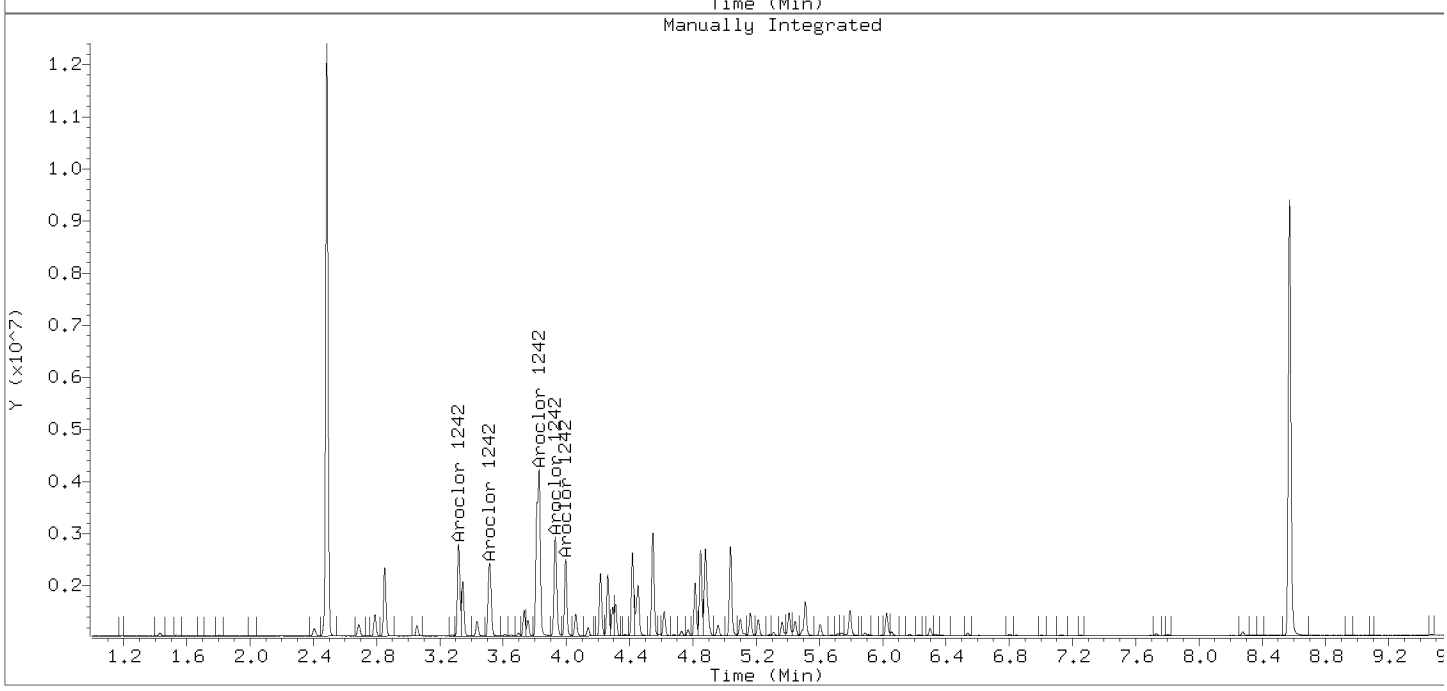
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

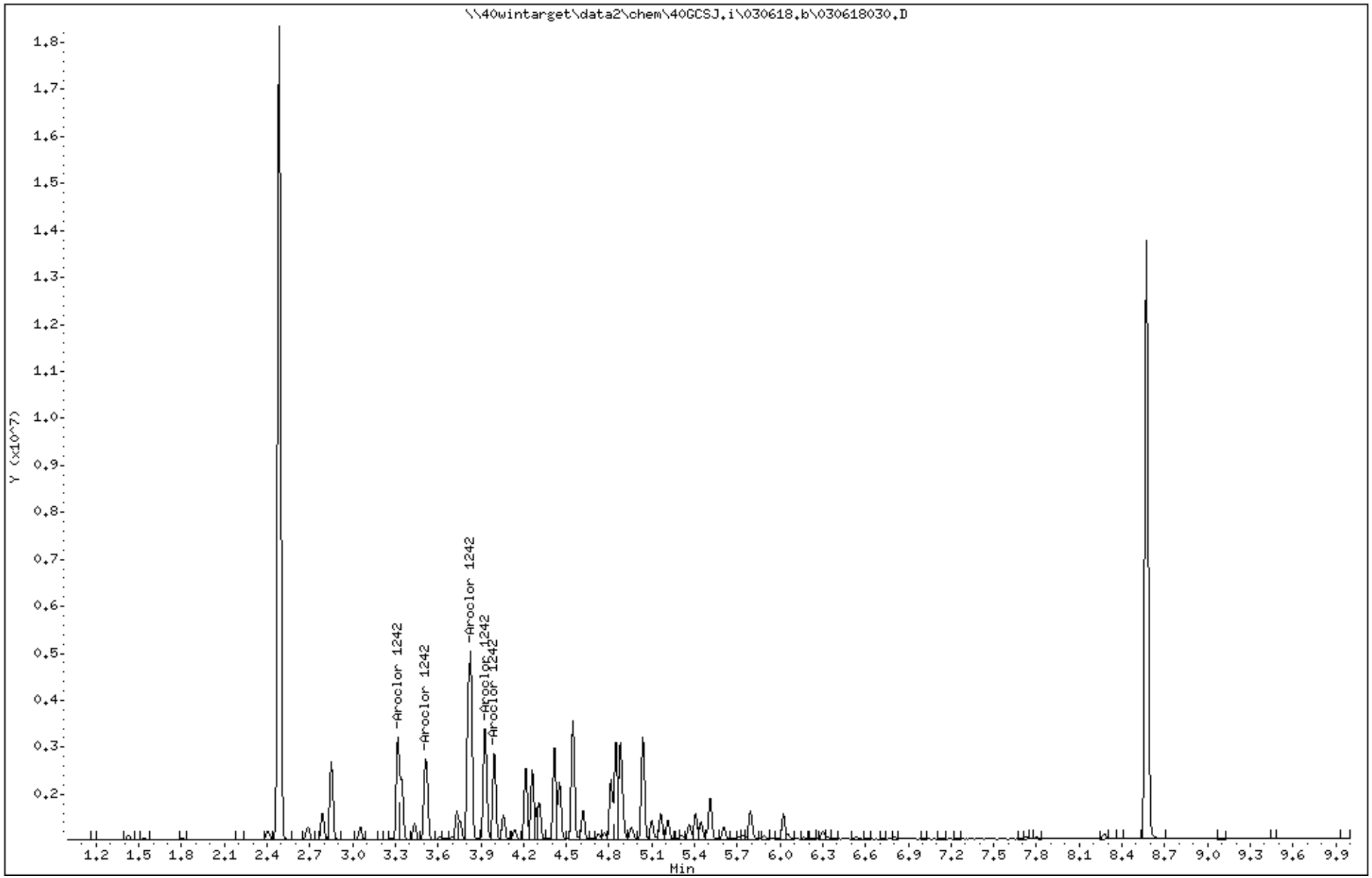
M - Compound response manually integrated.

Review Codes Legend

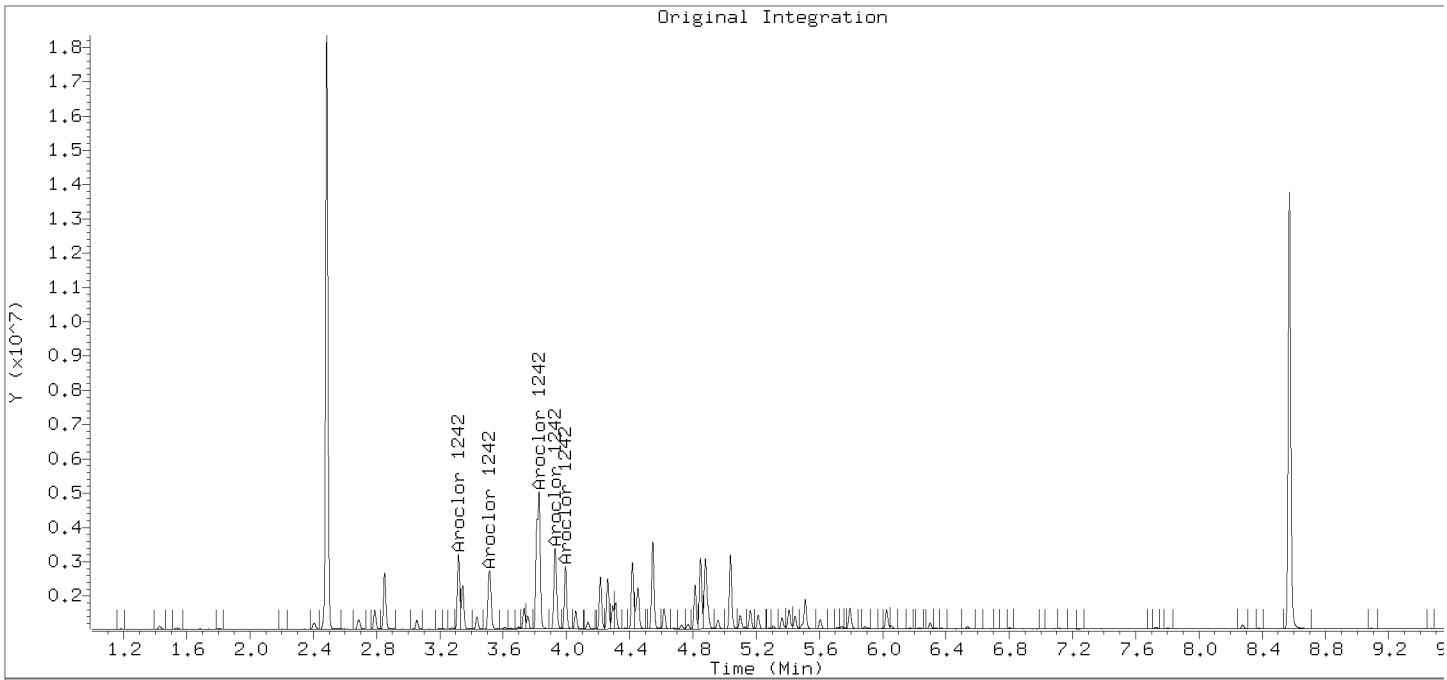
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

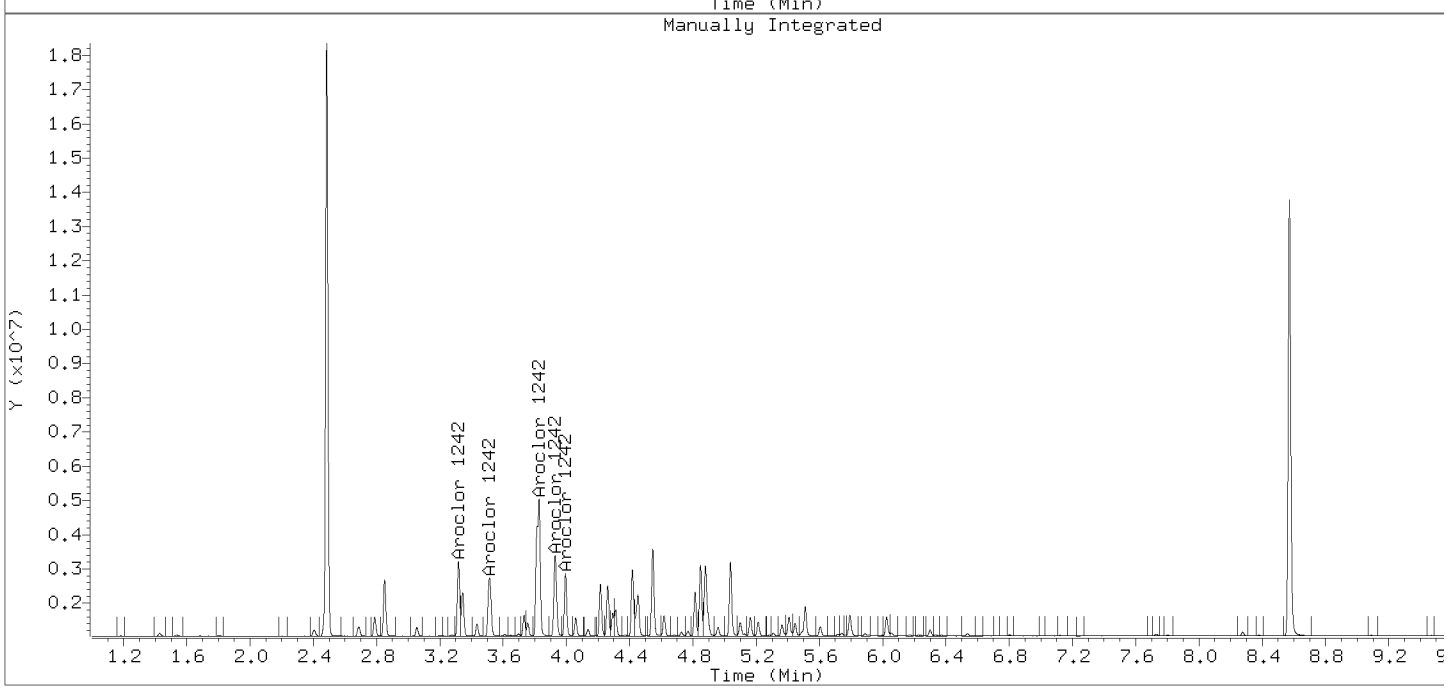
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

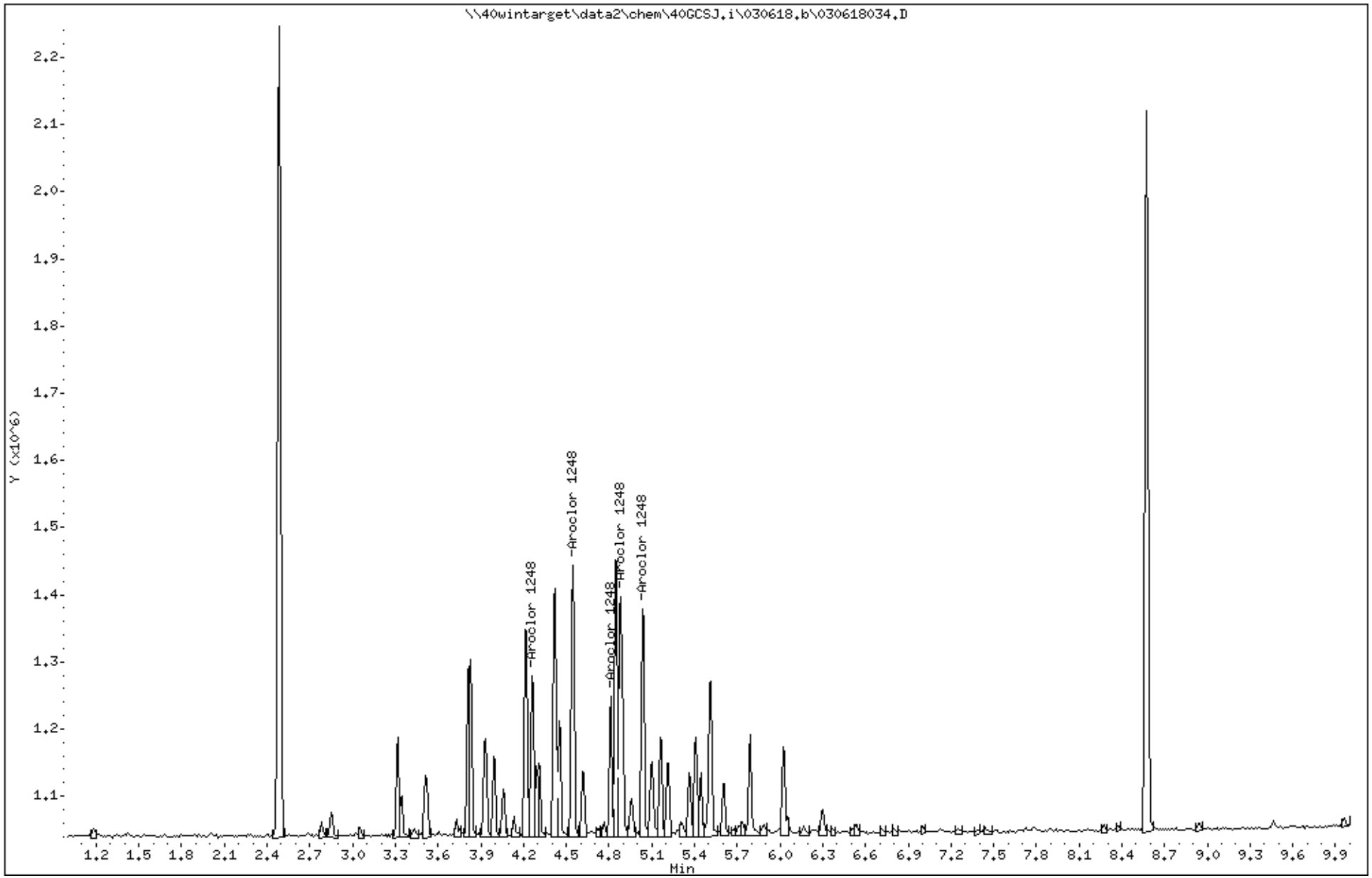
M - Compound response manually integrated.

Review Codes Legend

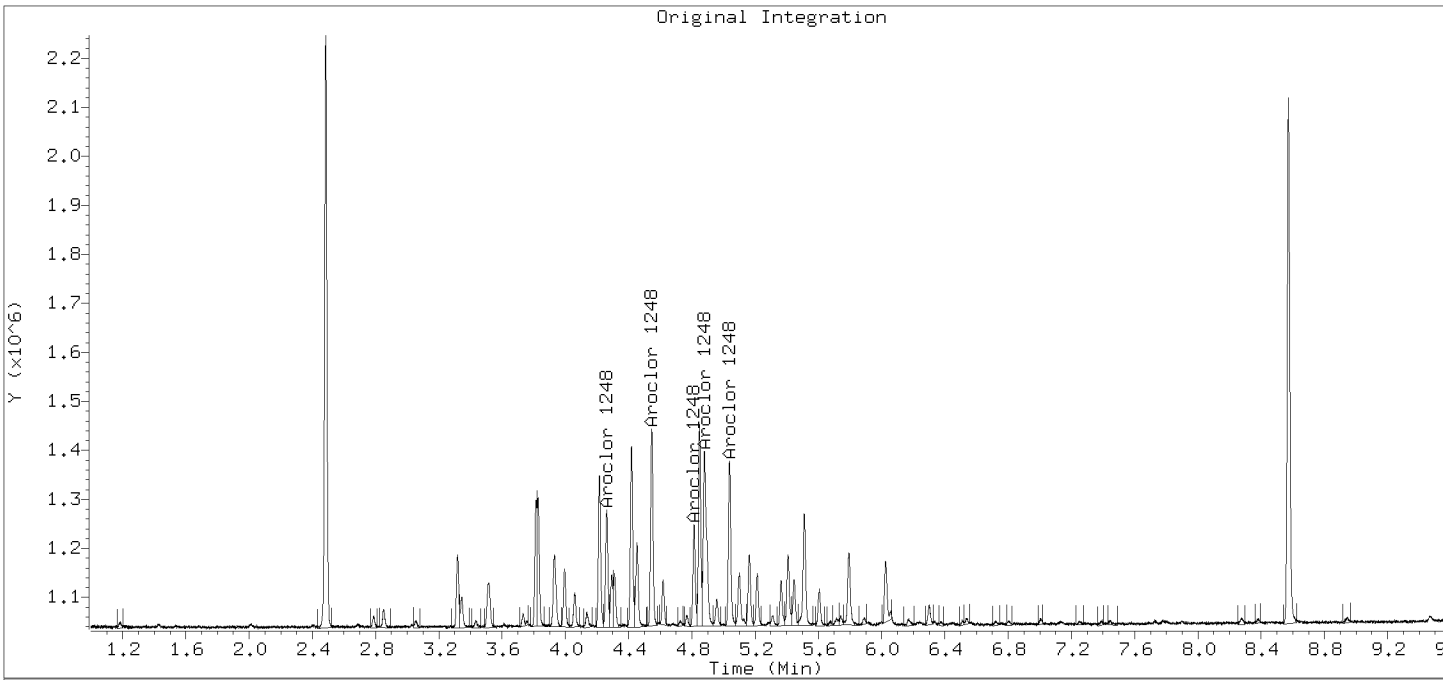
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

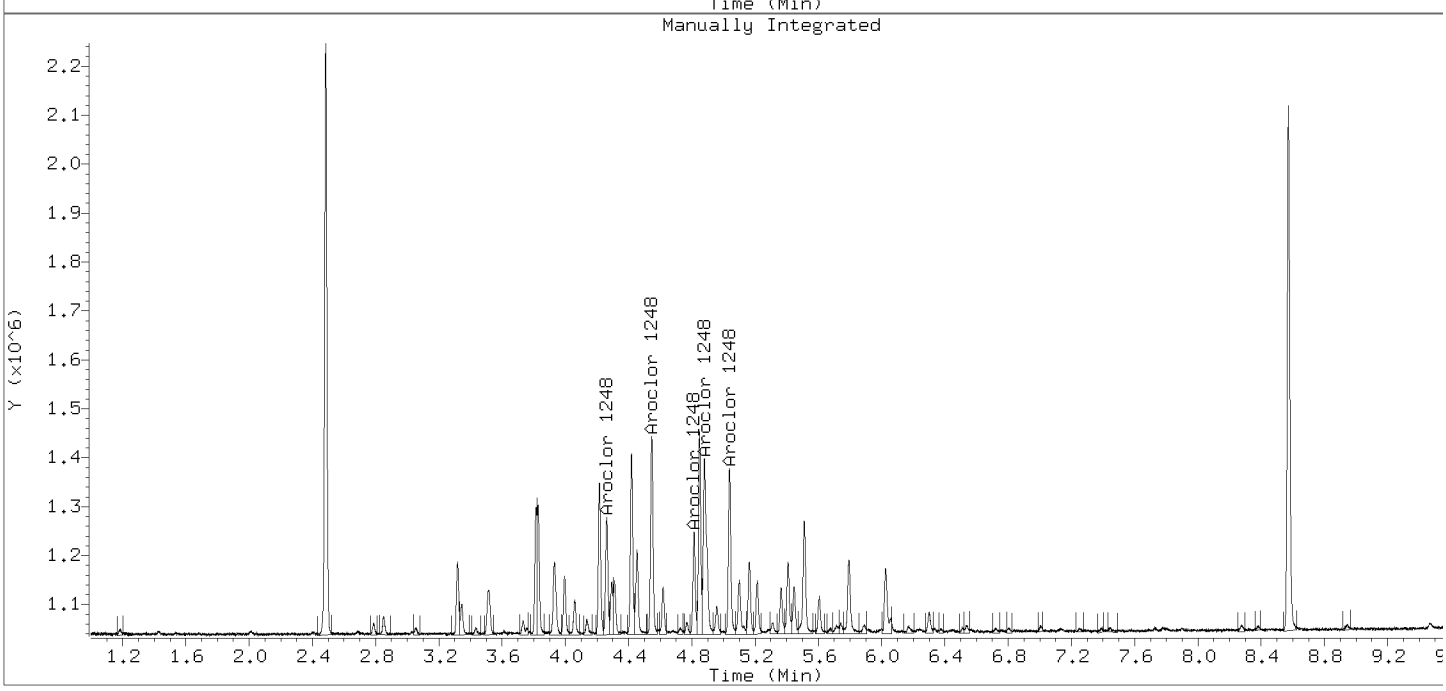
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

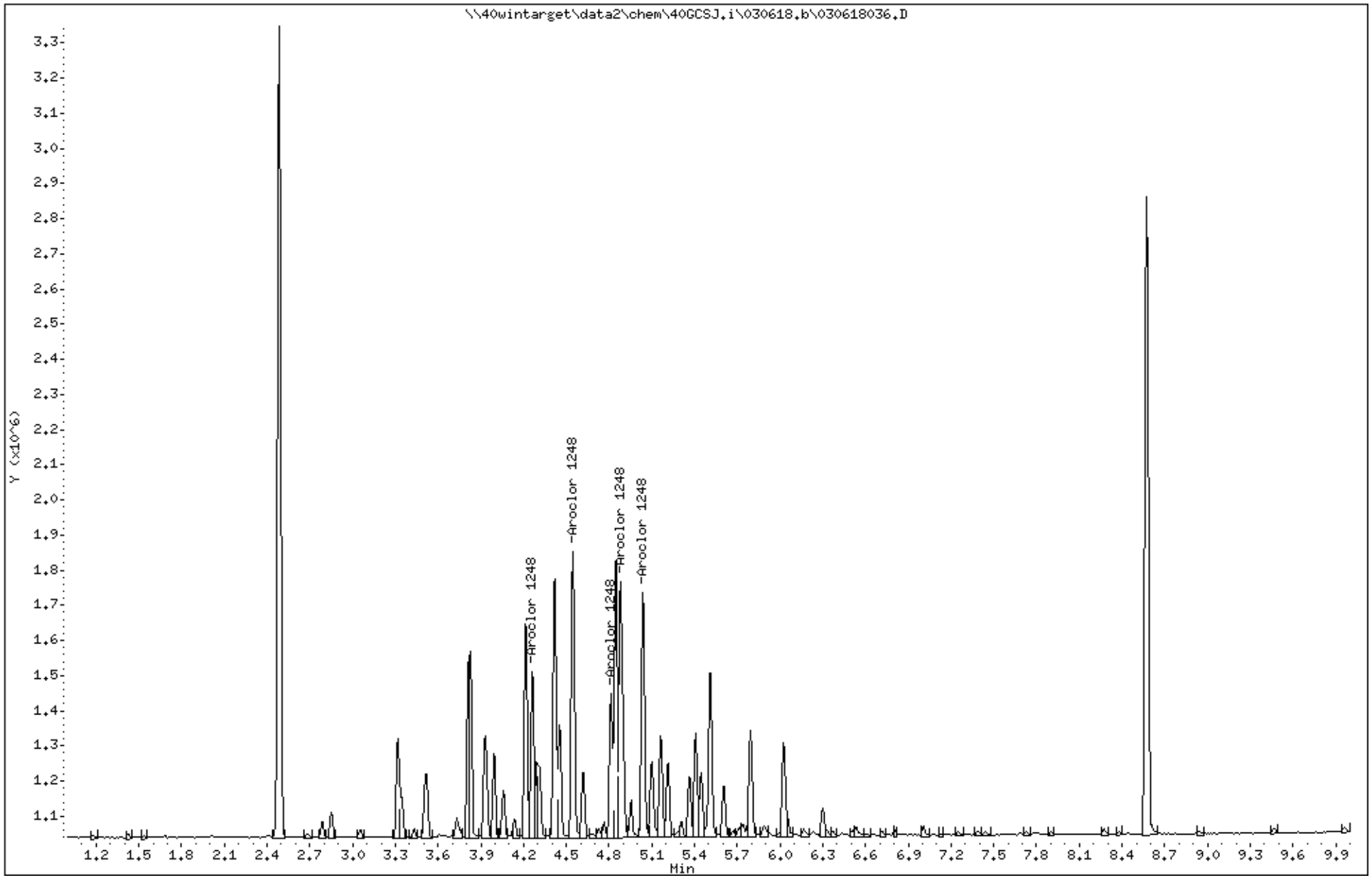
M - Compound response manually integrated.

Review Codes Legend

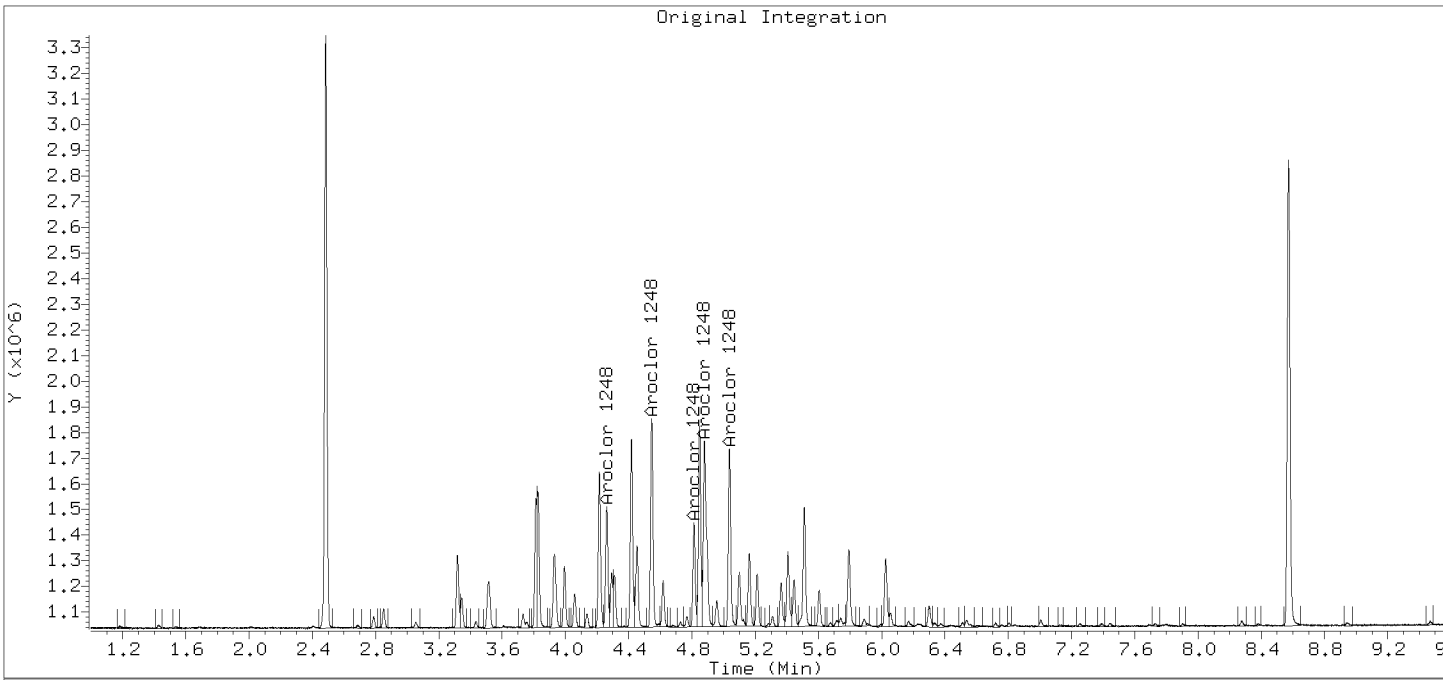
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

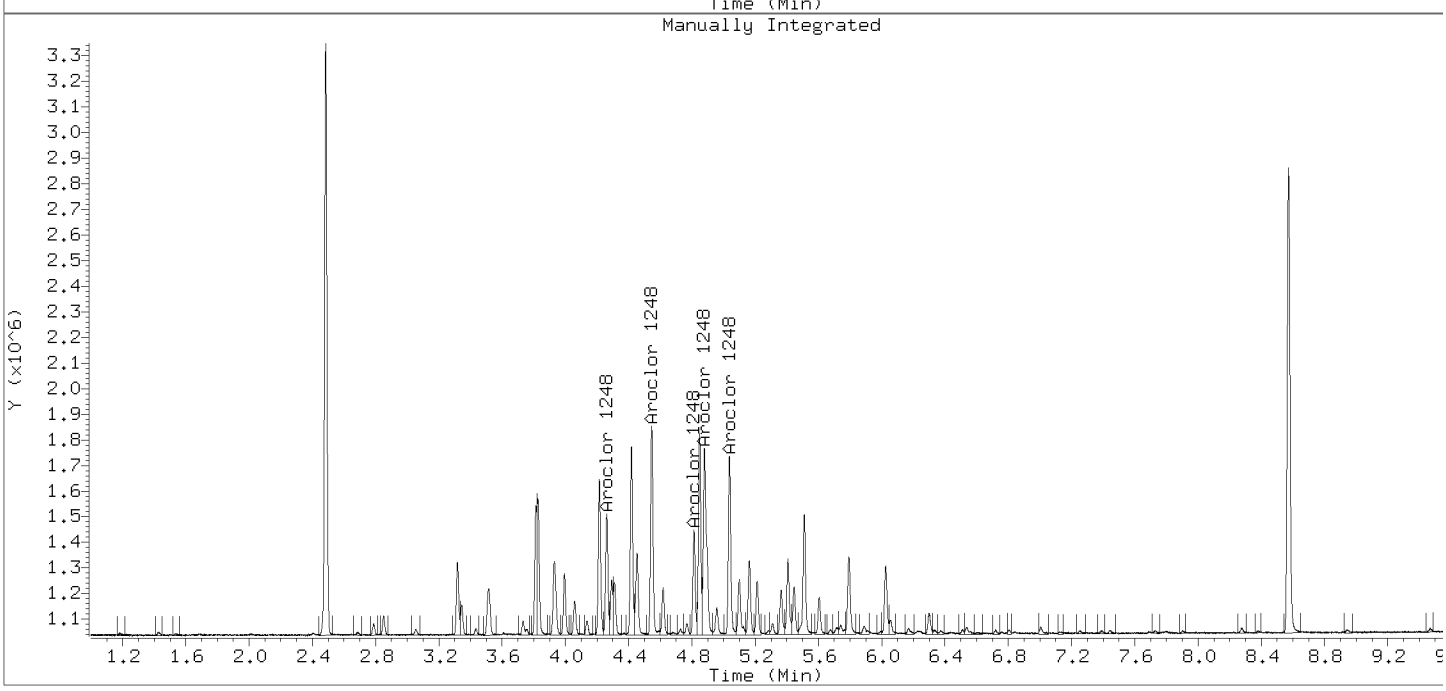
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

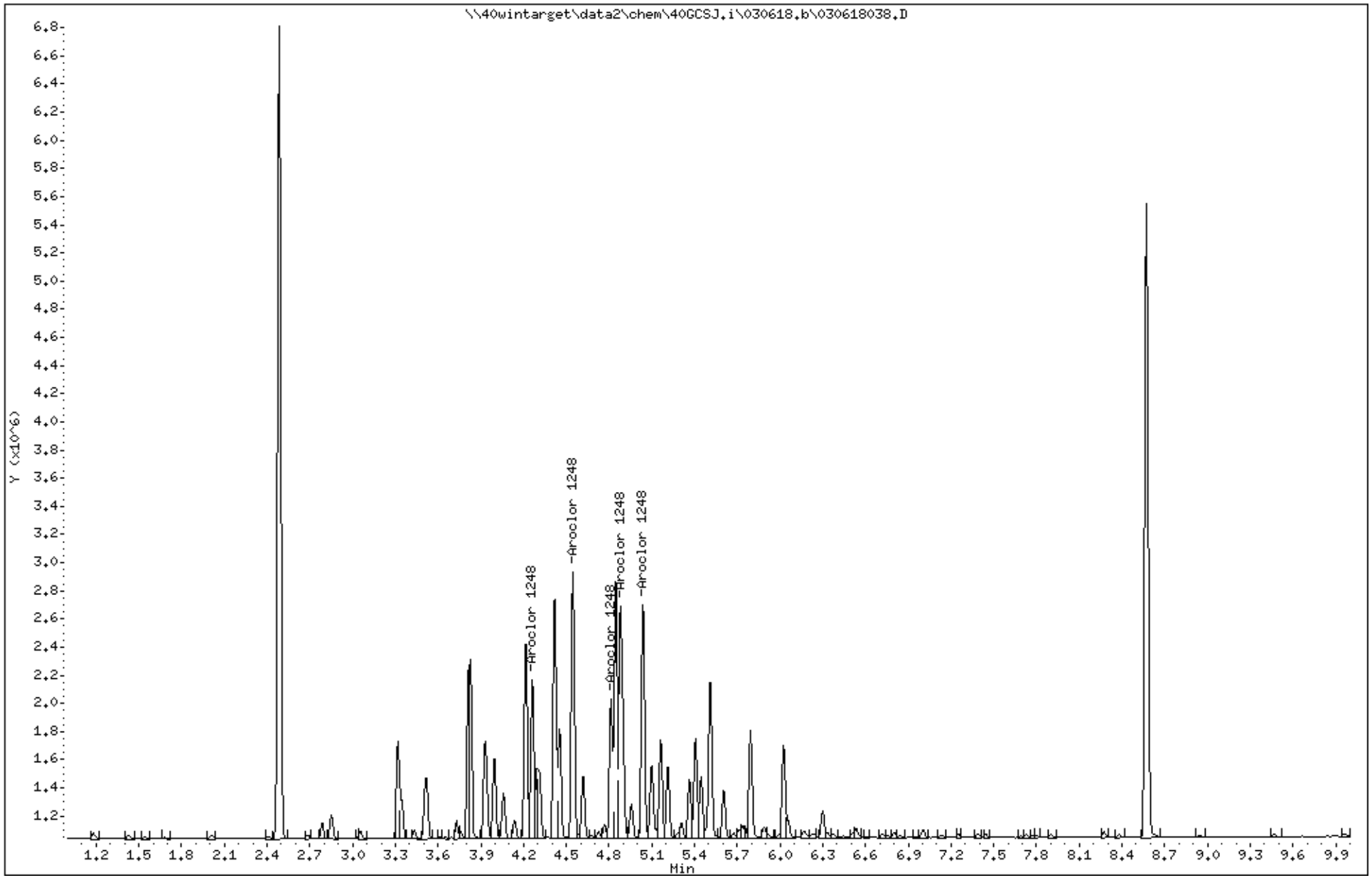
M - Compound response manually integrated.

Review Codes Legend

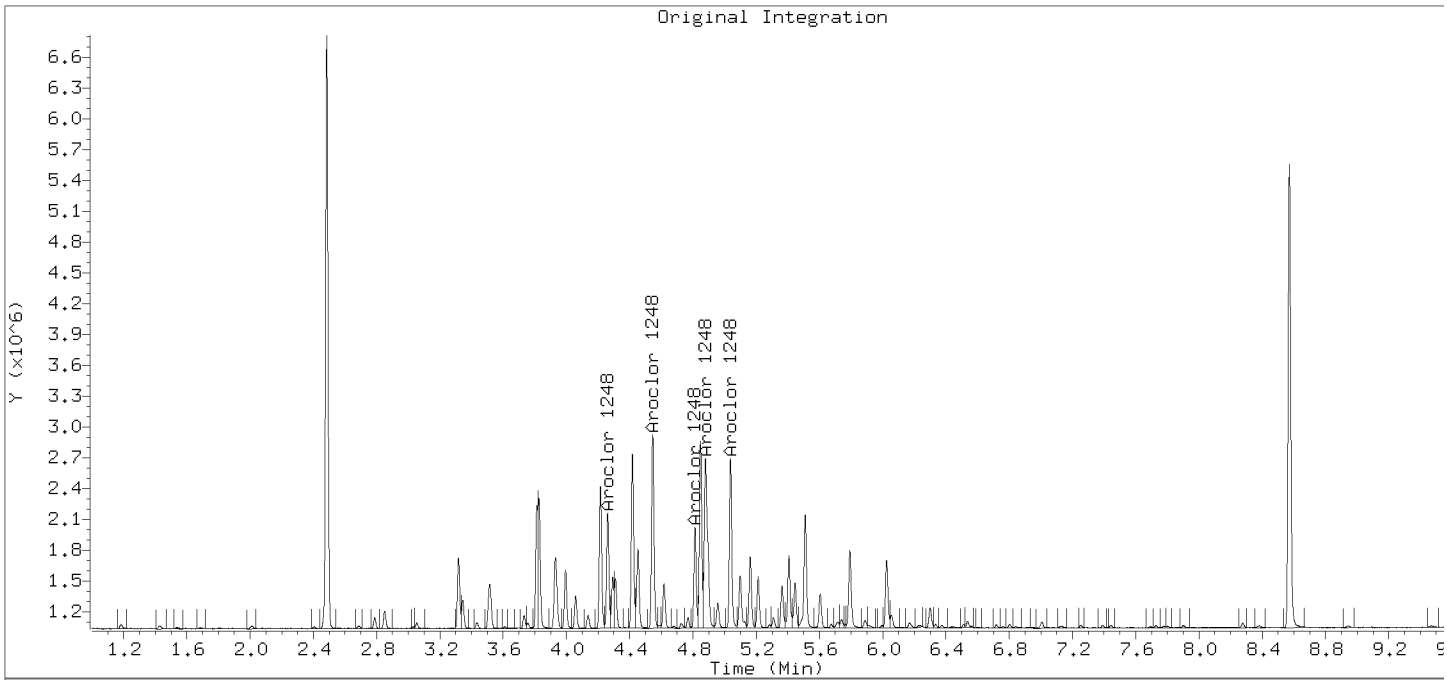
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

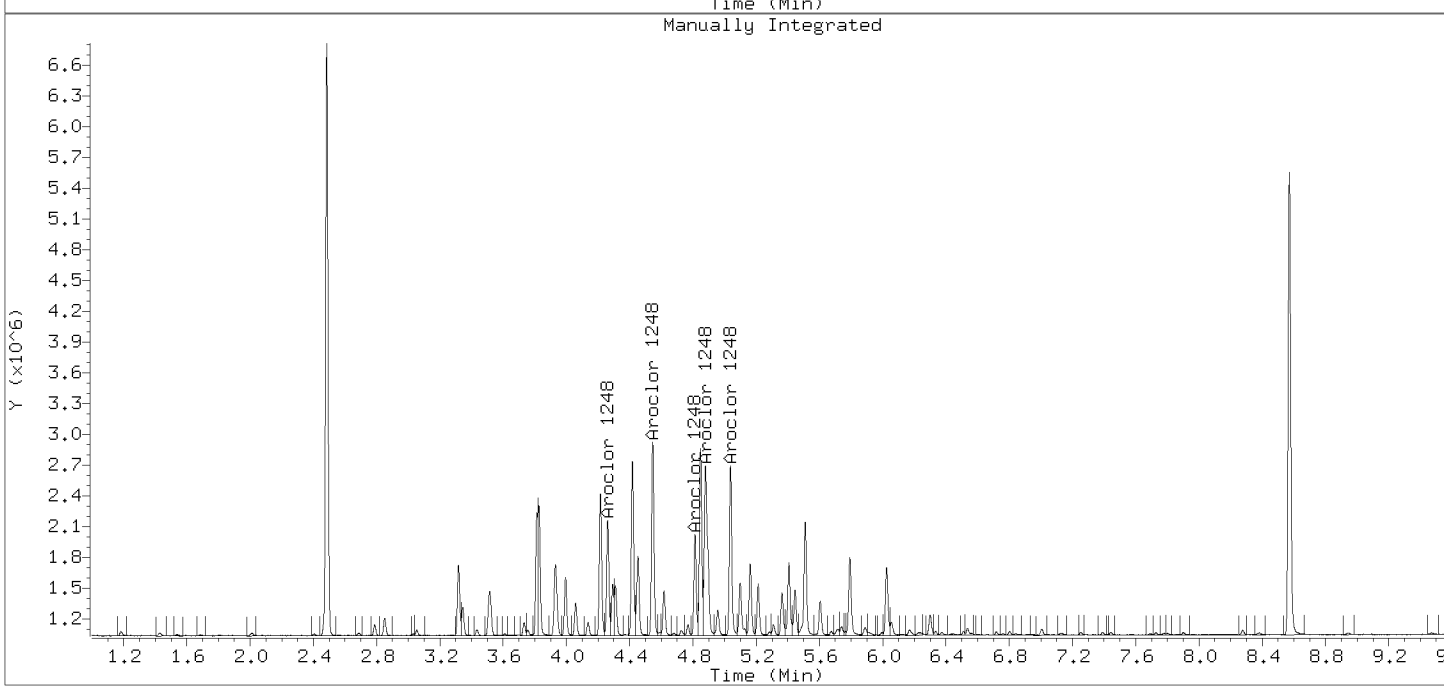
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

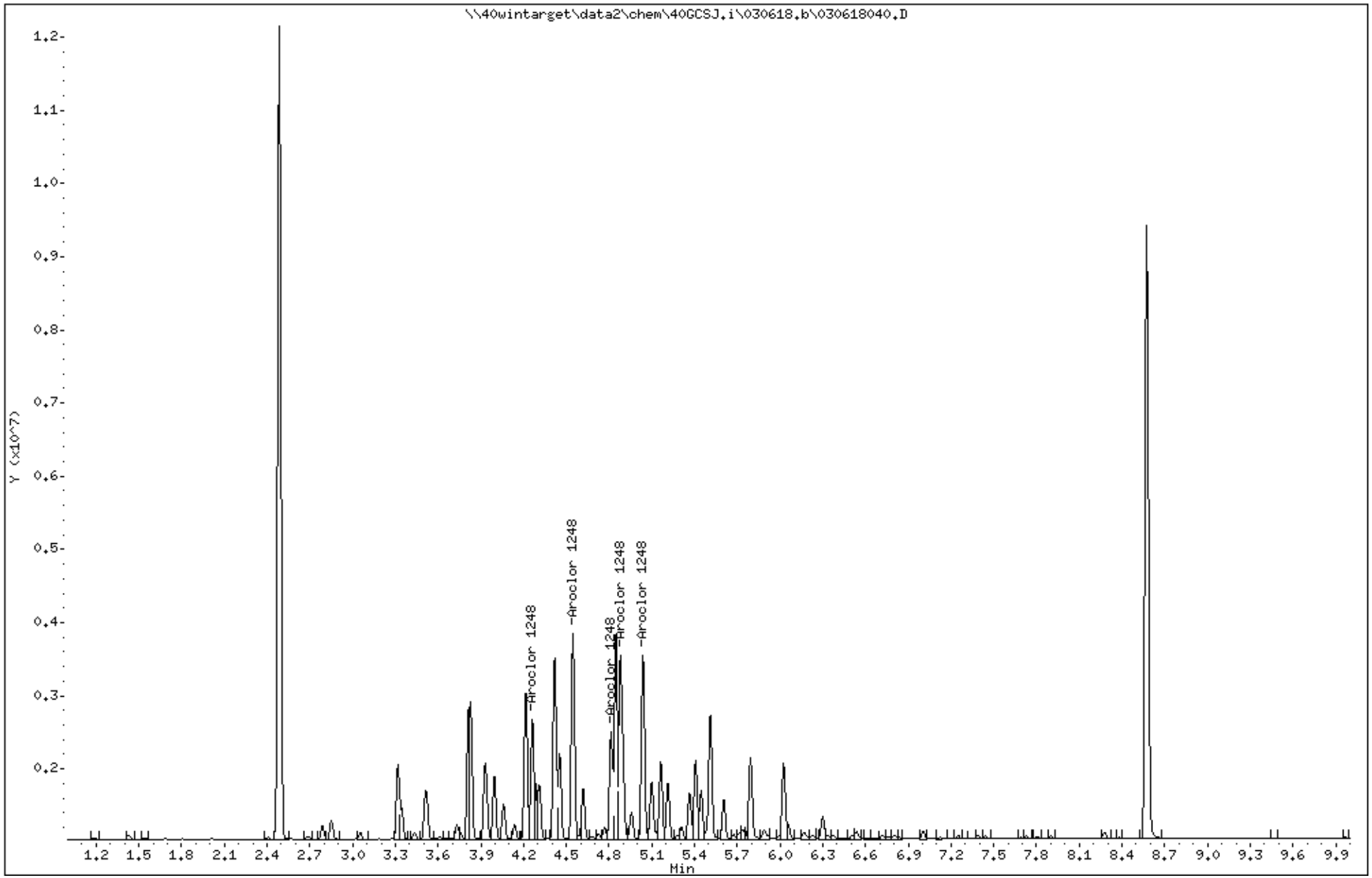
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

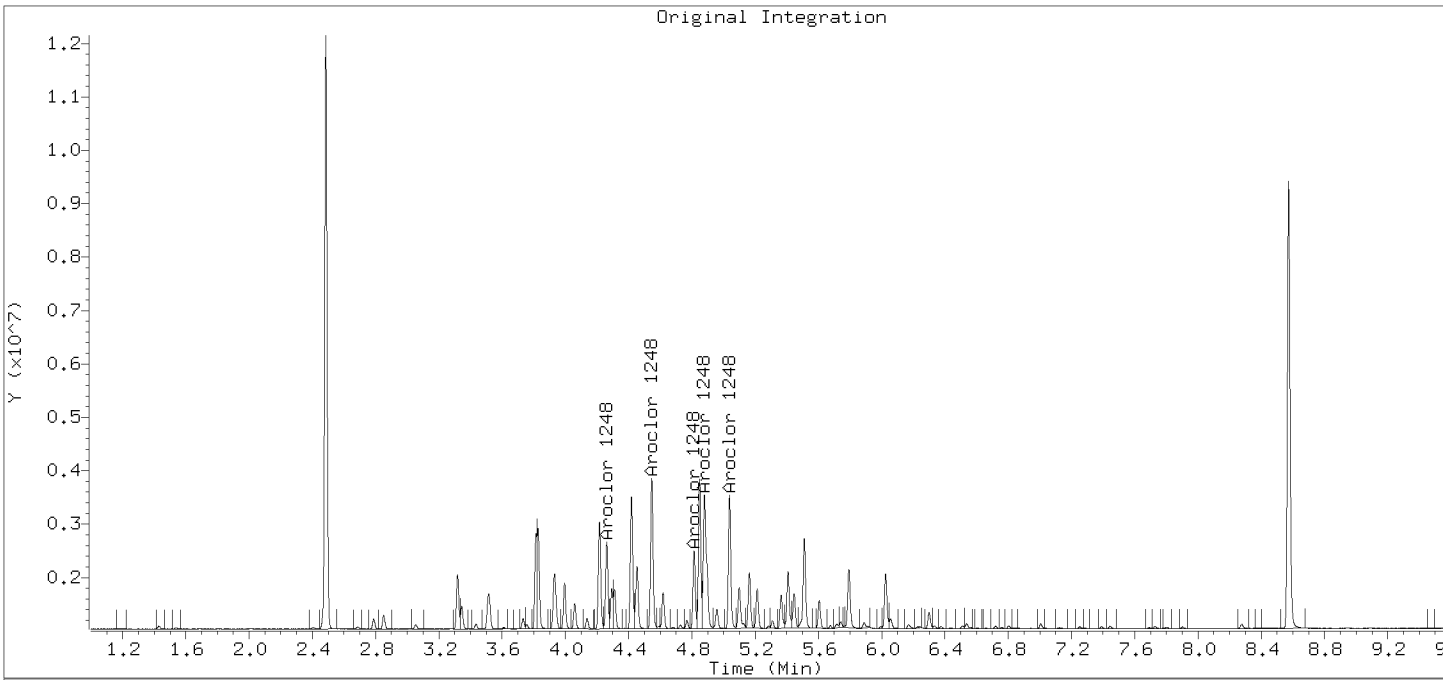
Operator: BLM

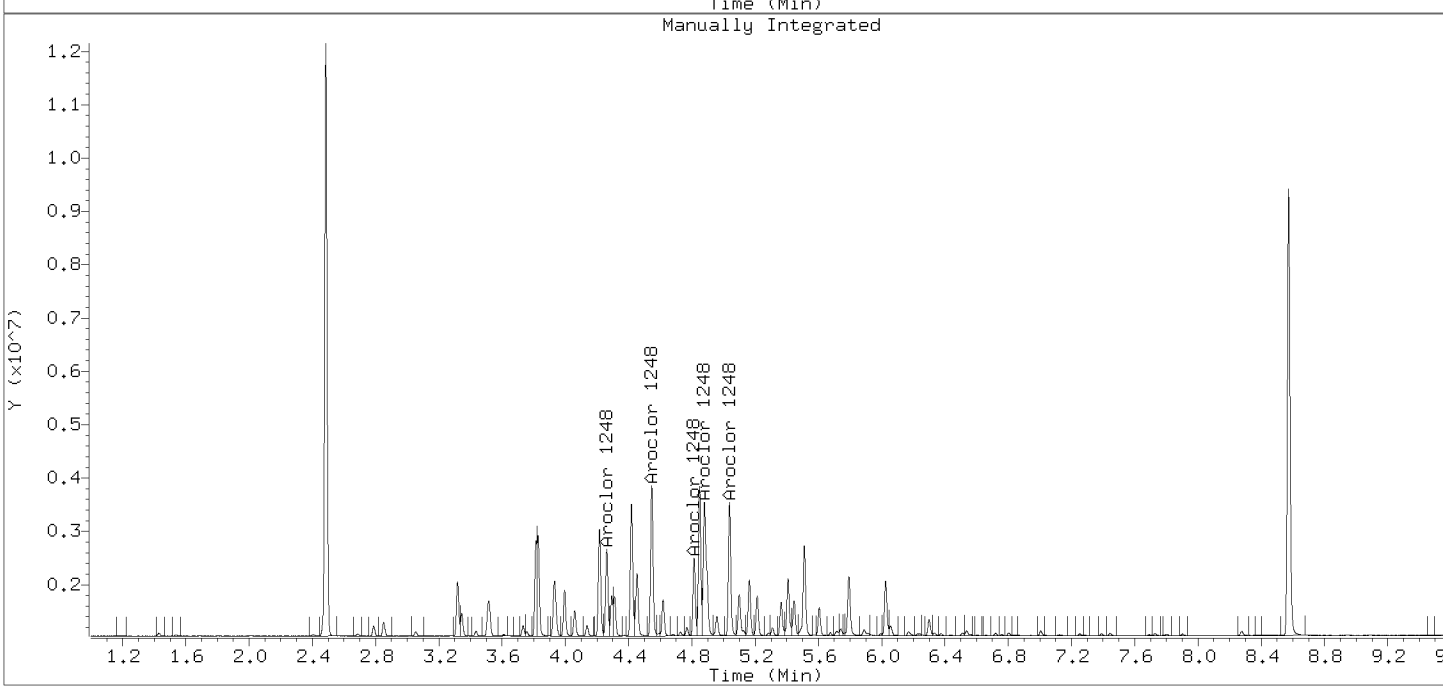
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

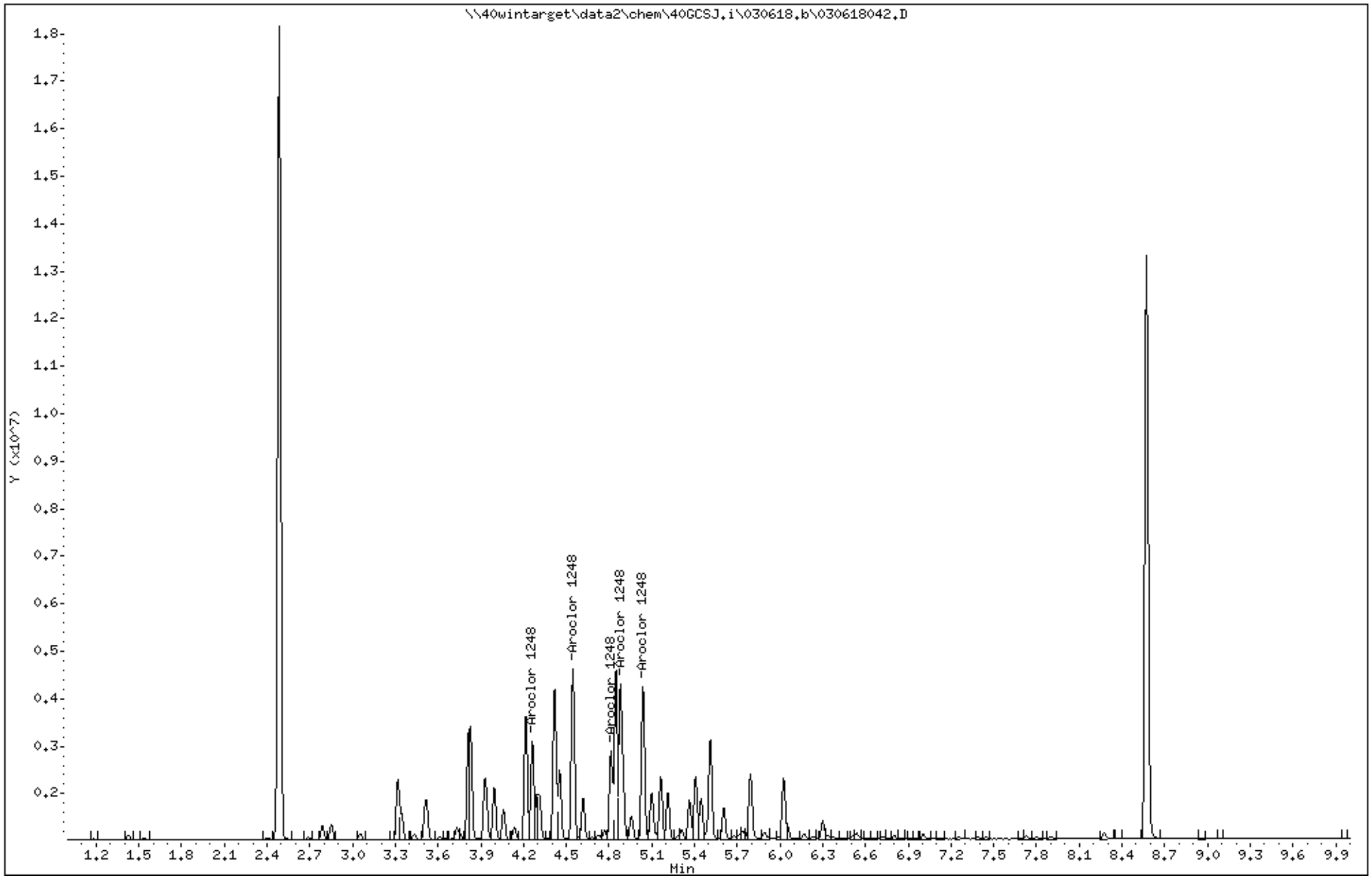
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

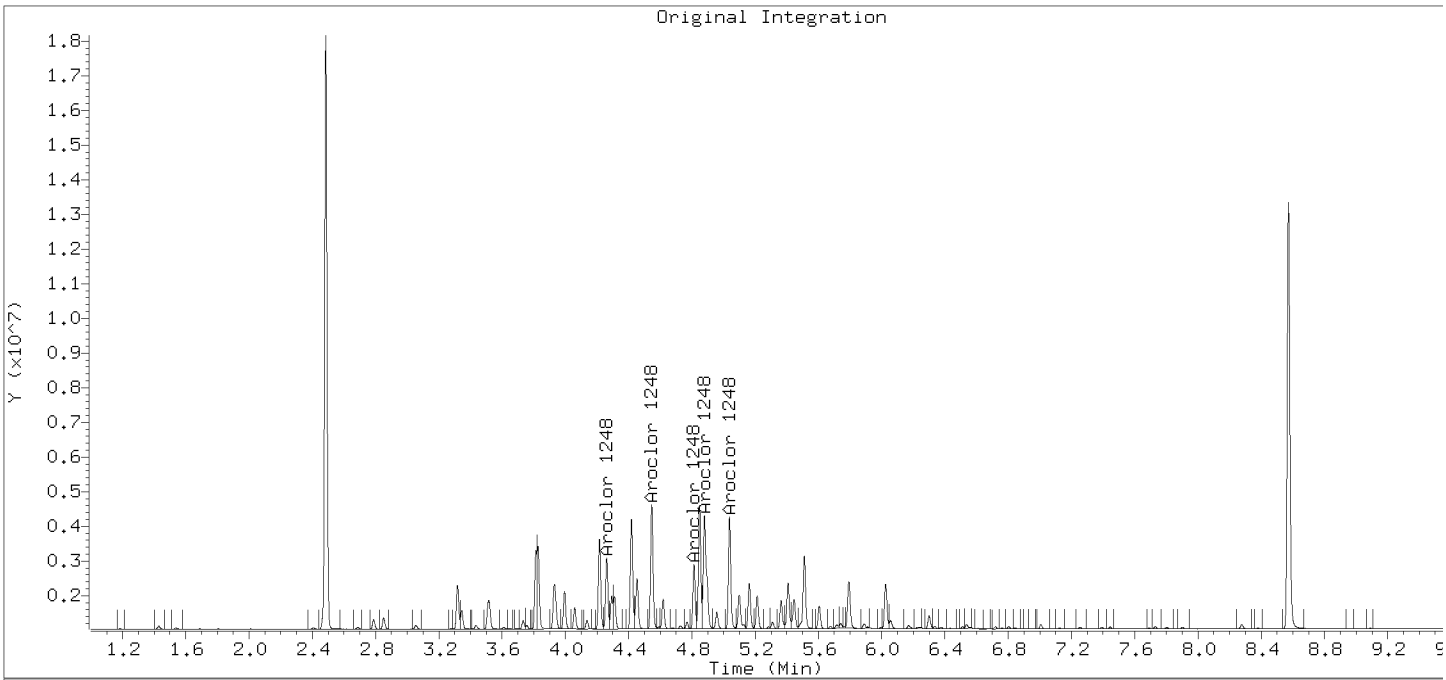
Operator: BLM

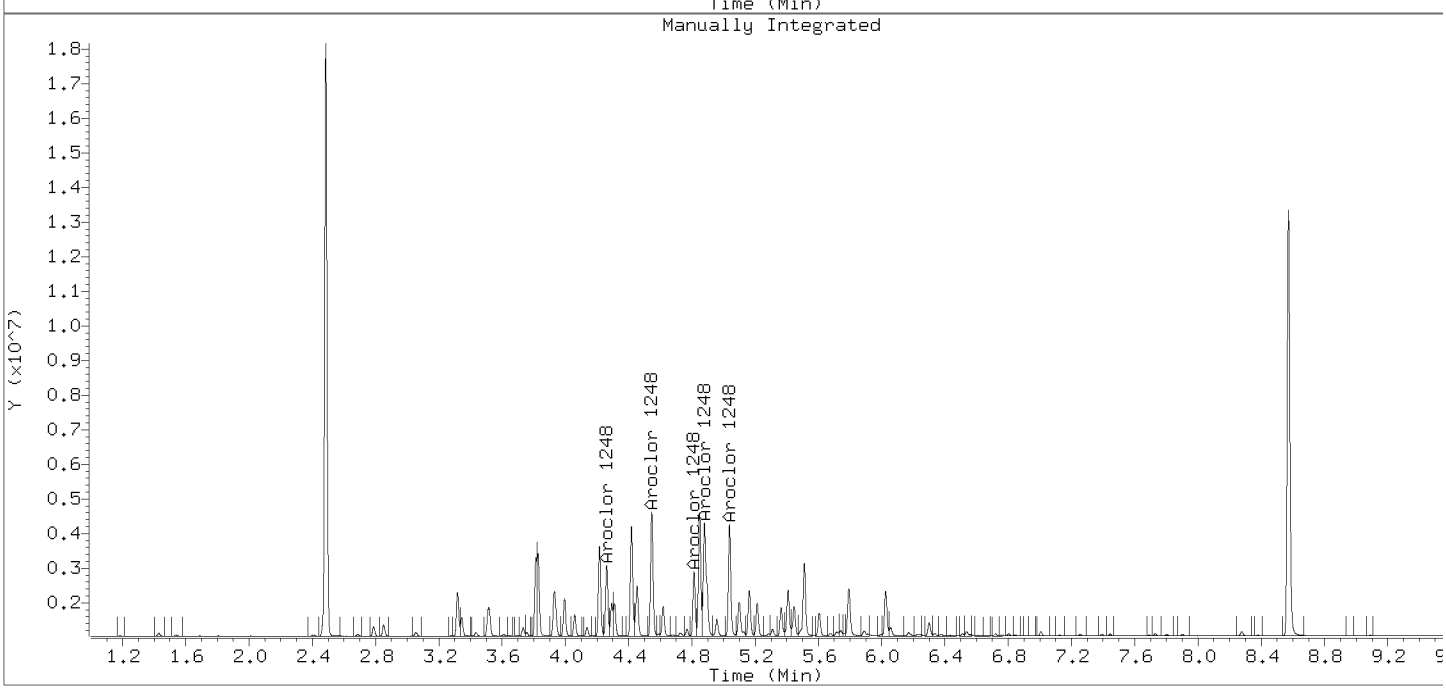
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D Page 2
Report Date: 22-Mar-2018 13:34

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

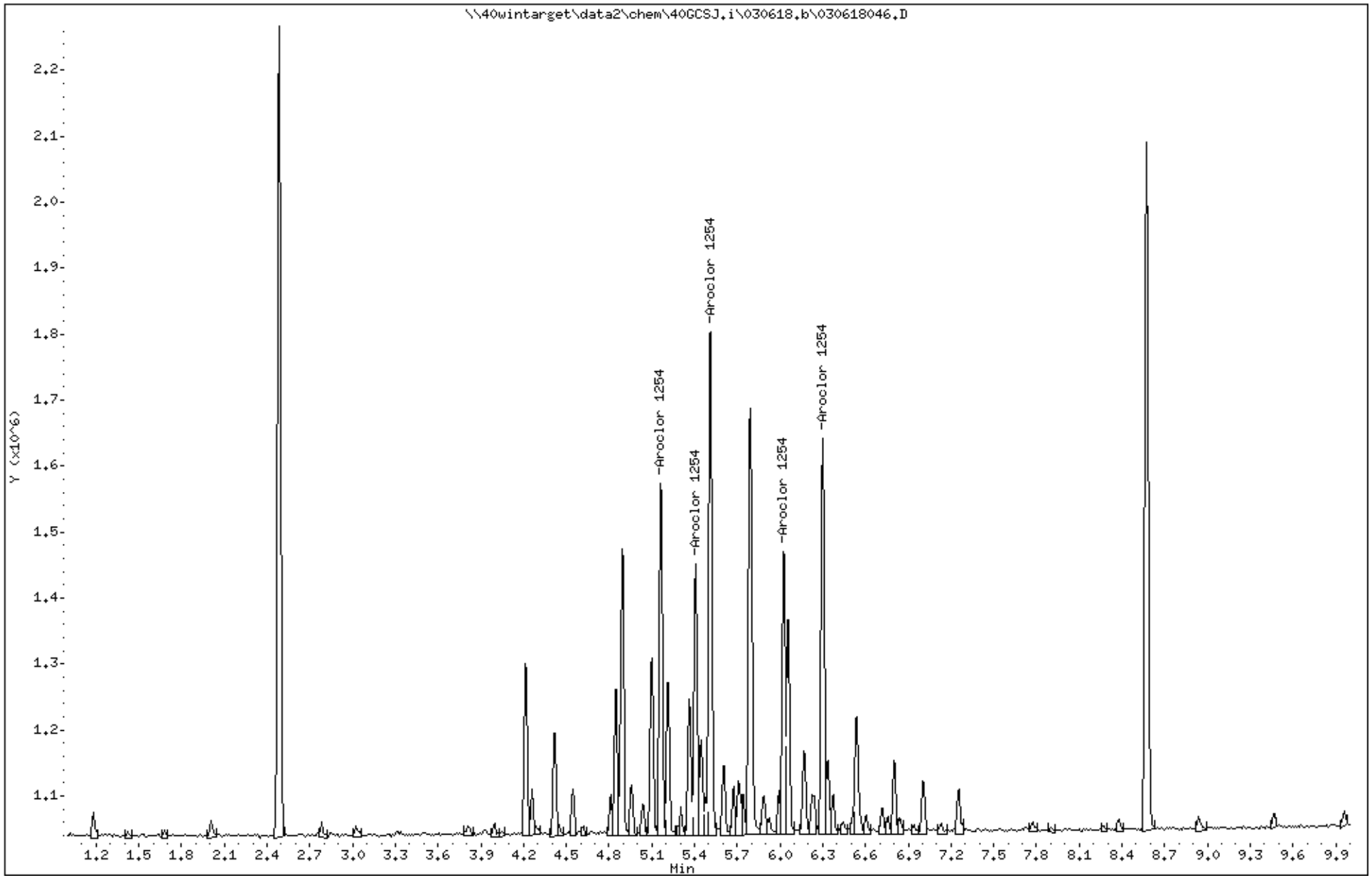
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

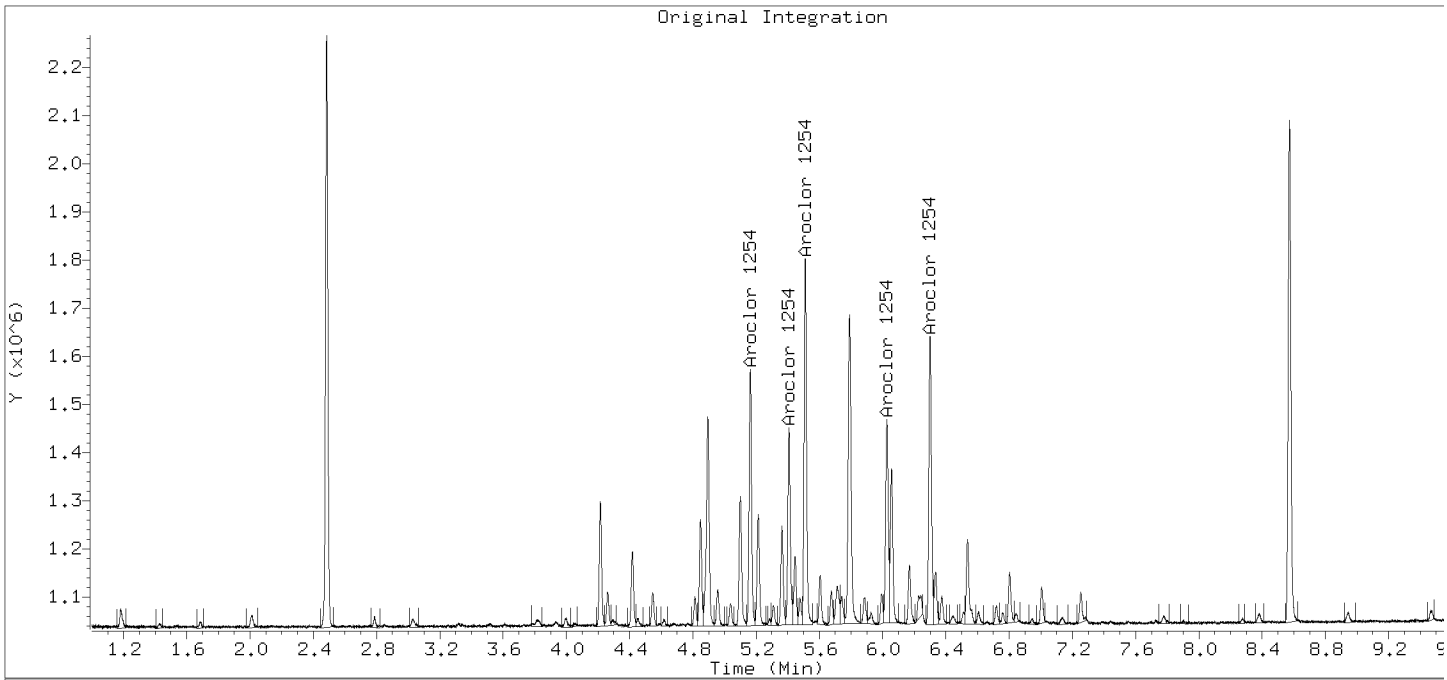
Operator: BLM

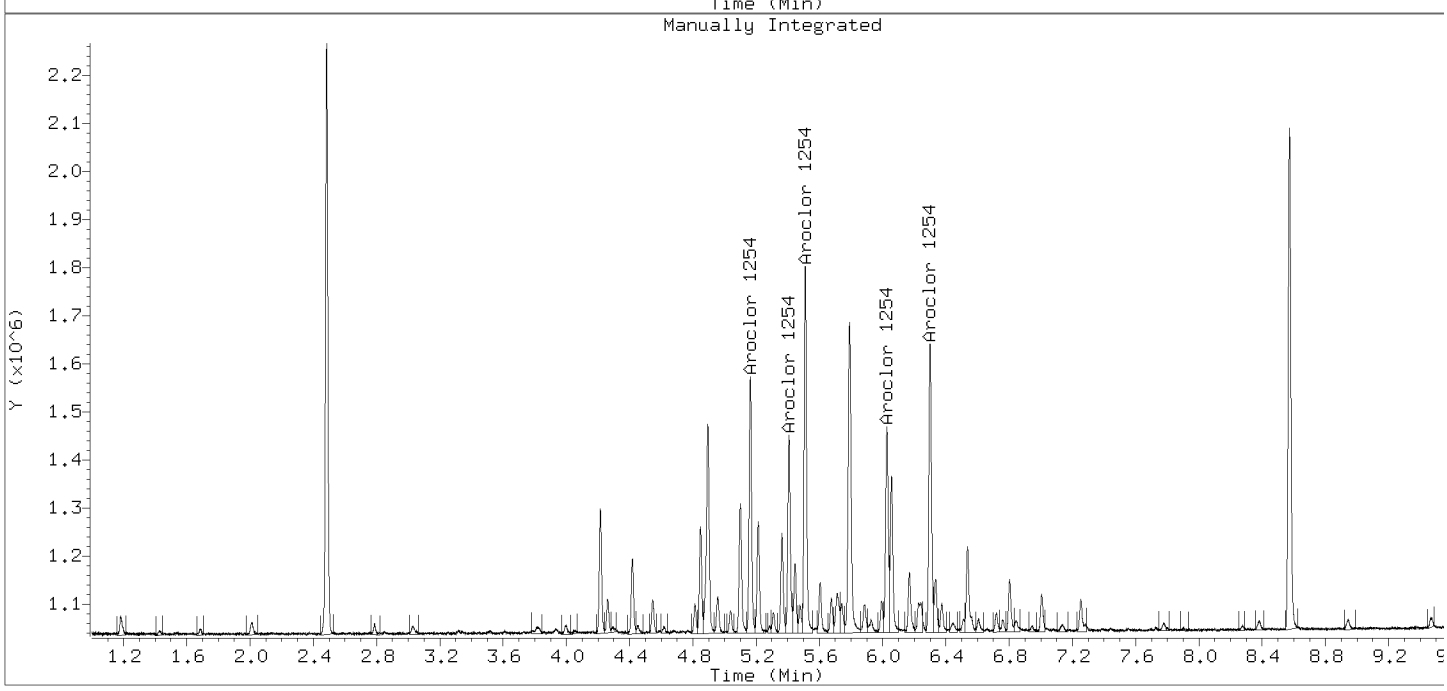
Column phase: ZB-1ms

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

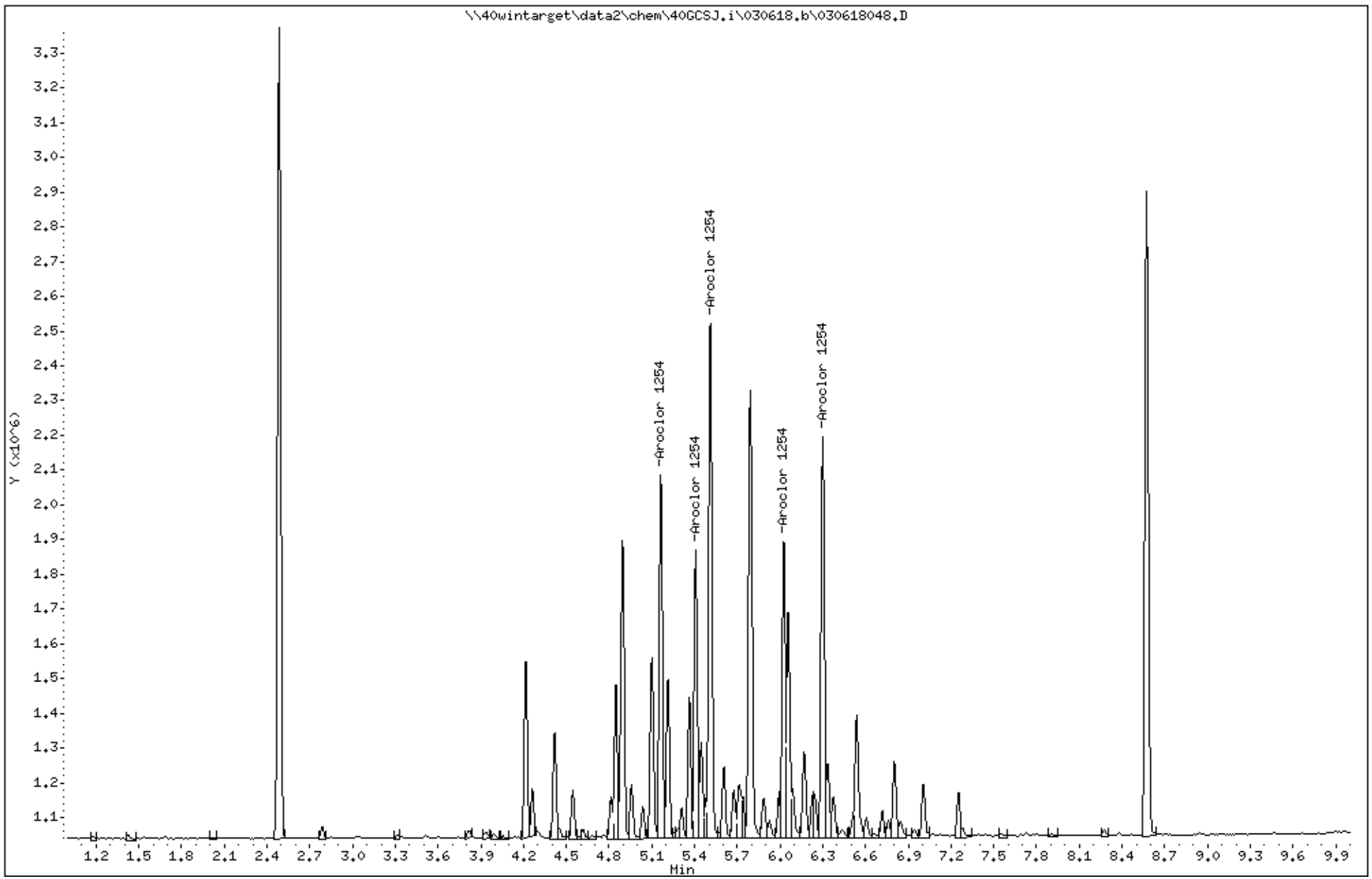
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

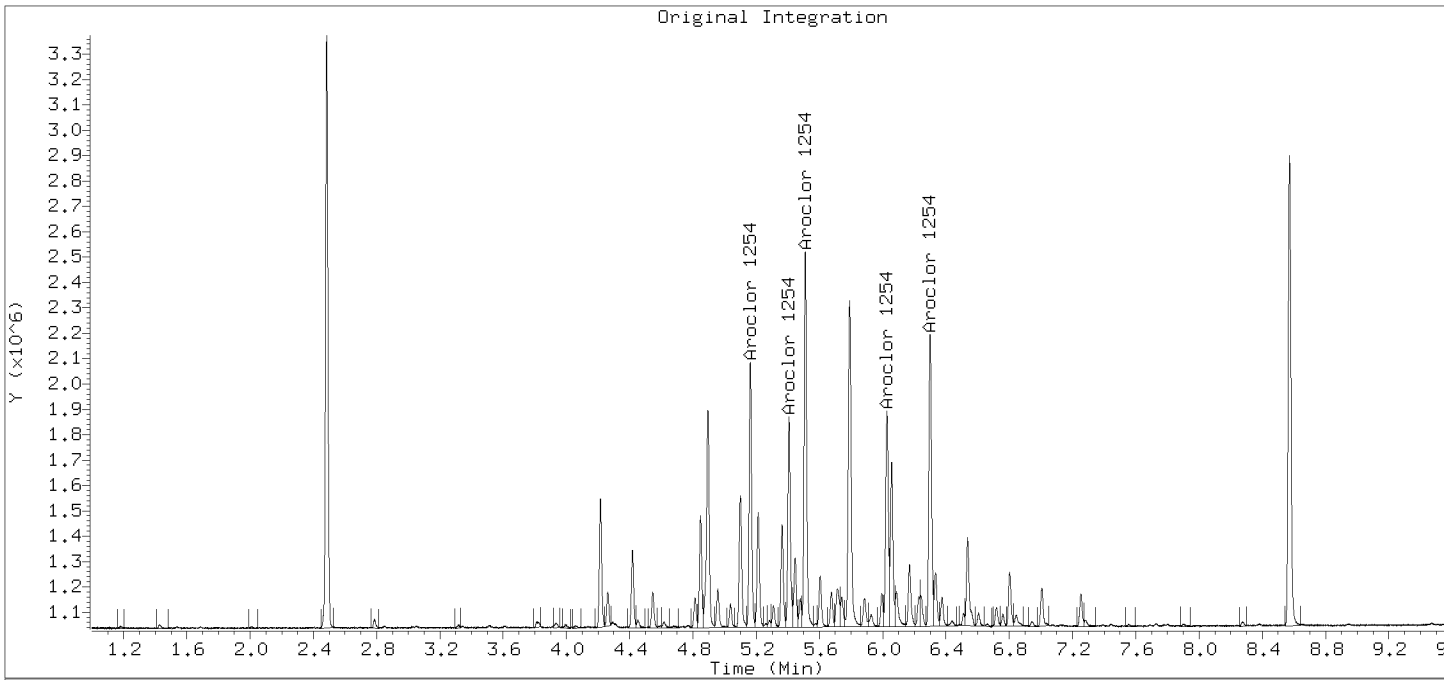
Operator: BLM

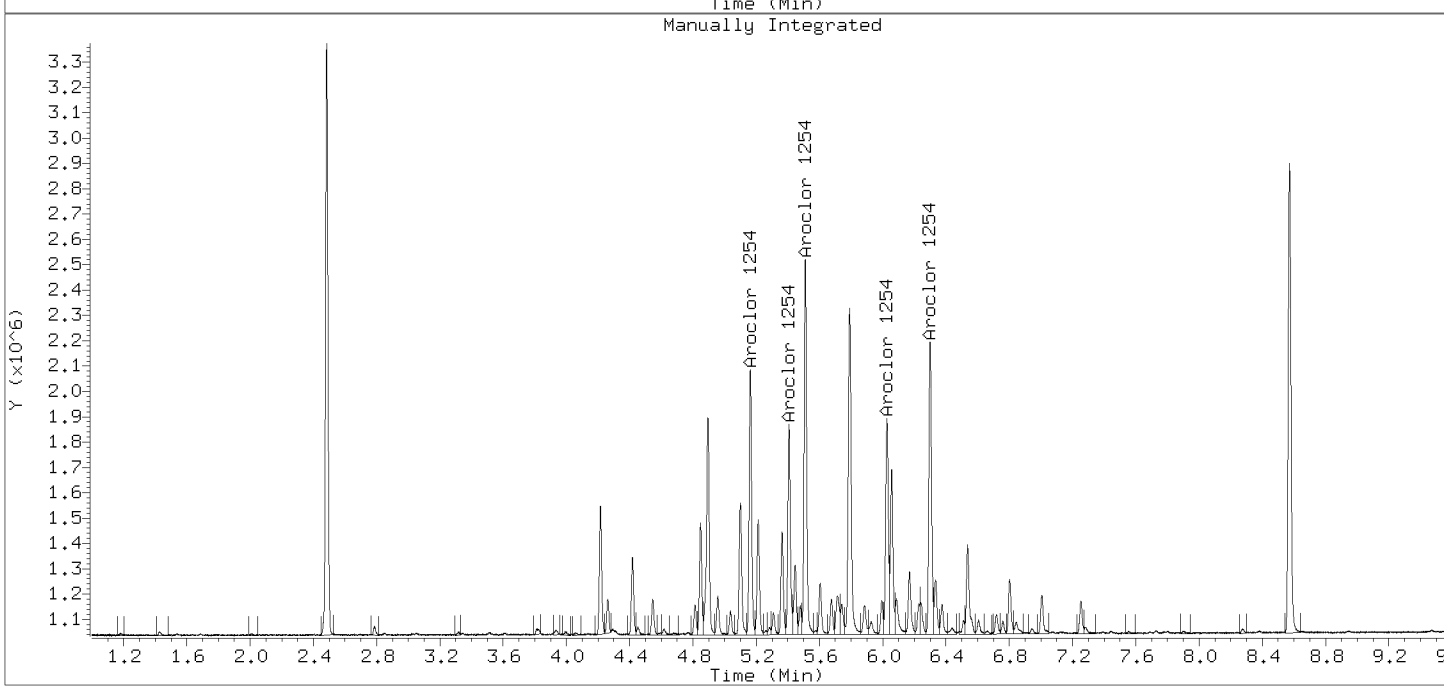
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

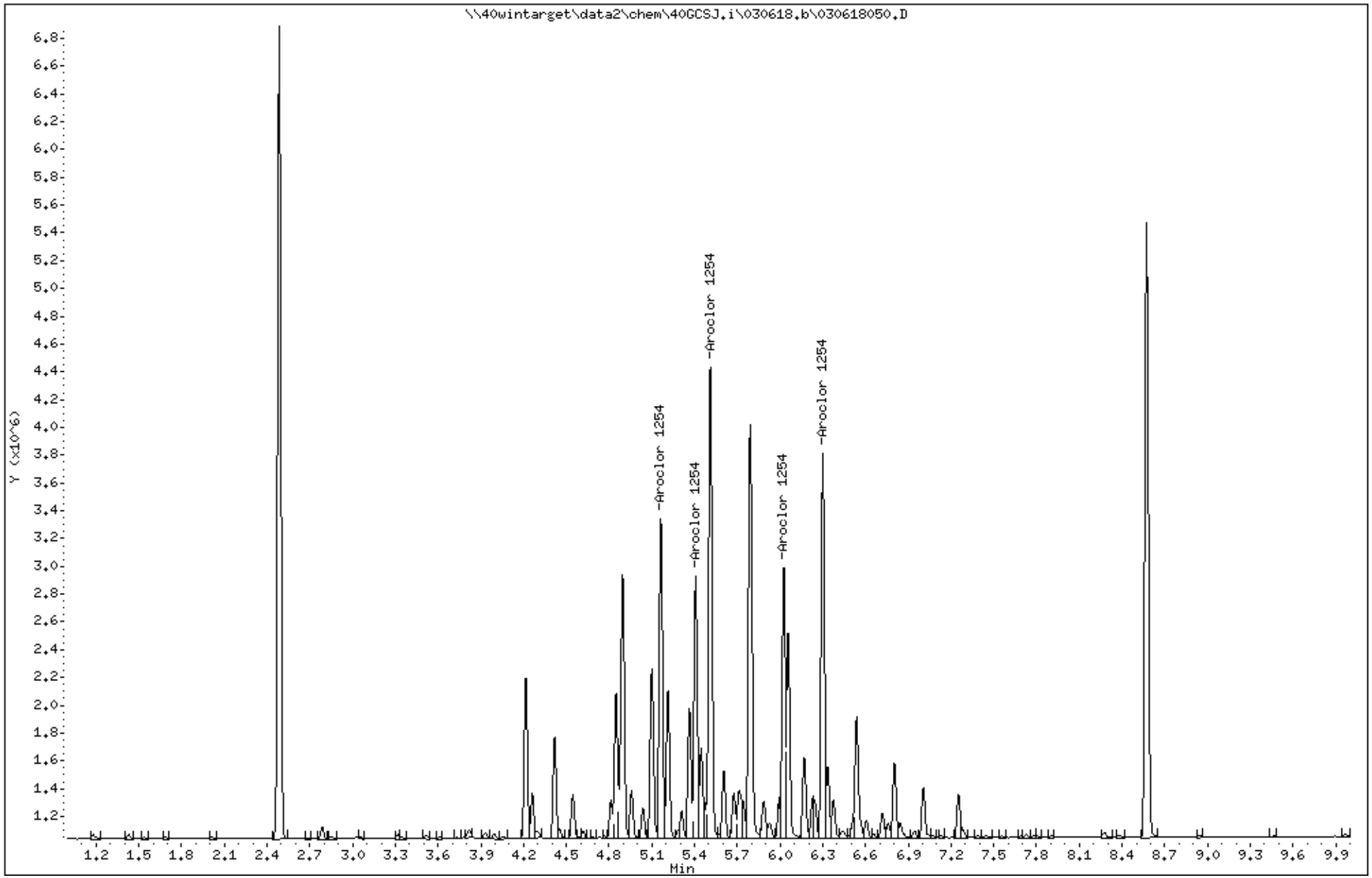
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

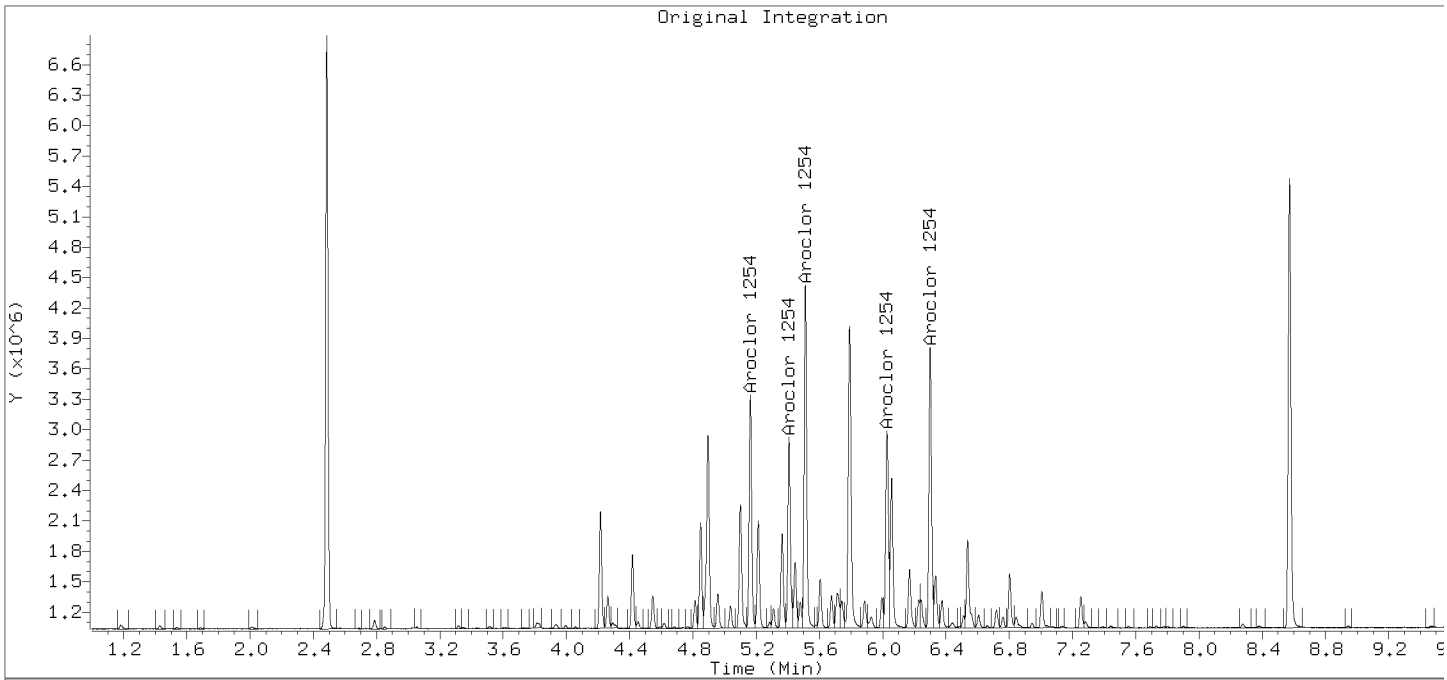
Operator: BLM

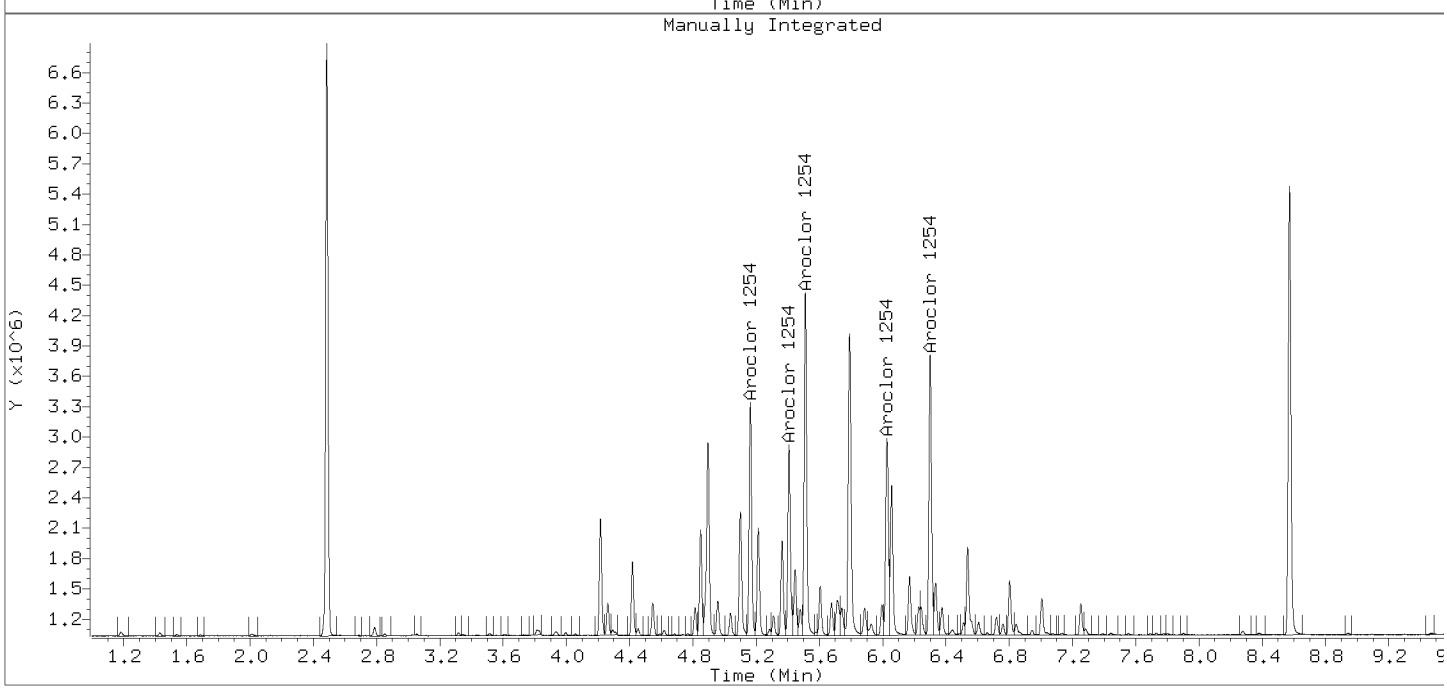
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

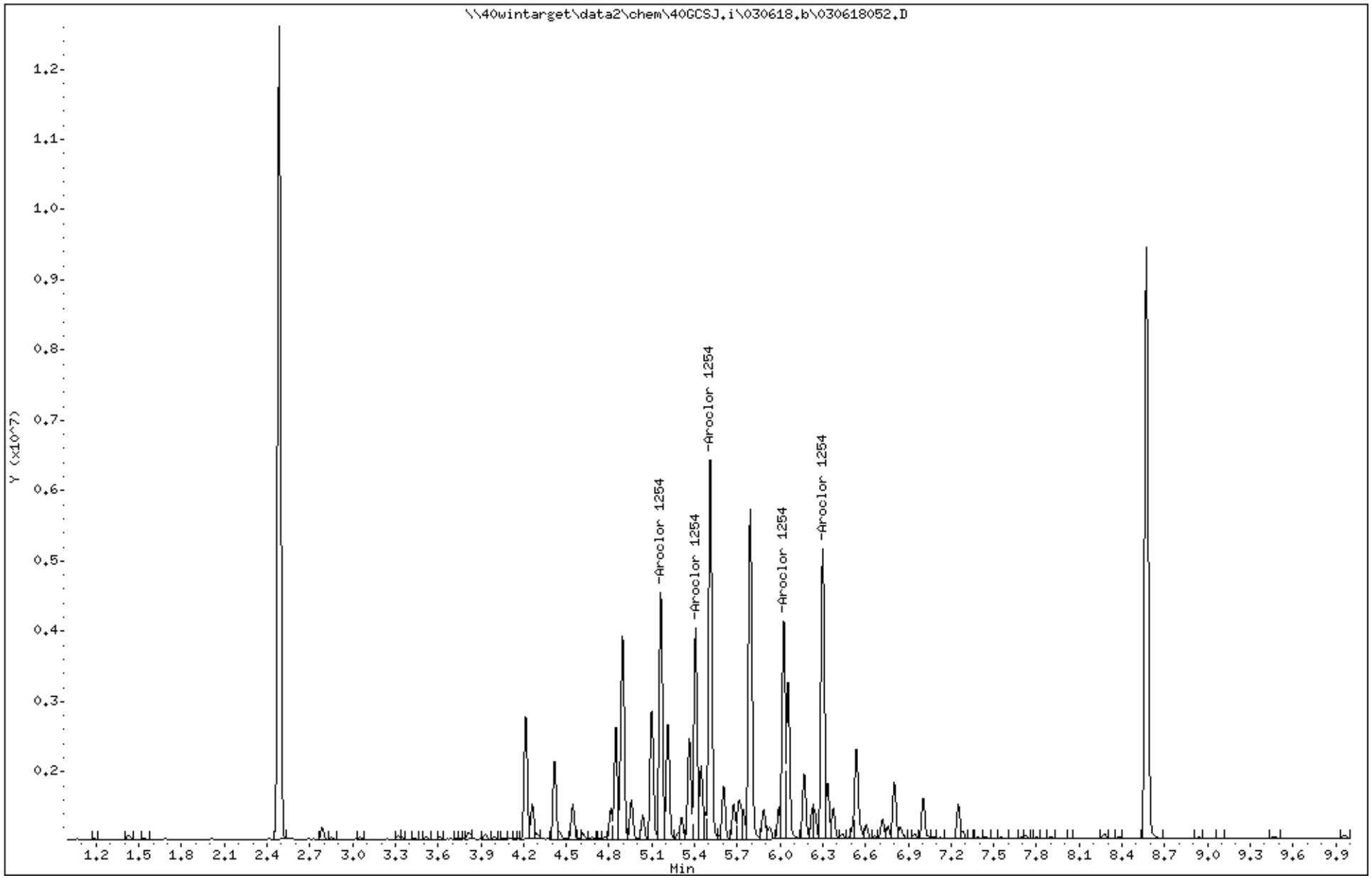
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

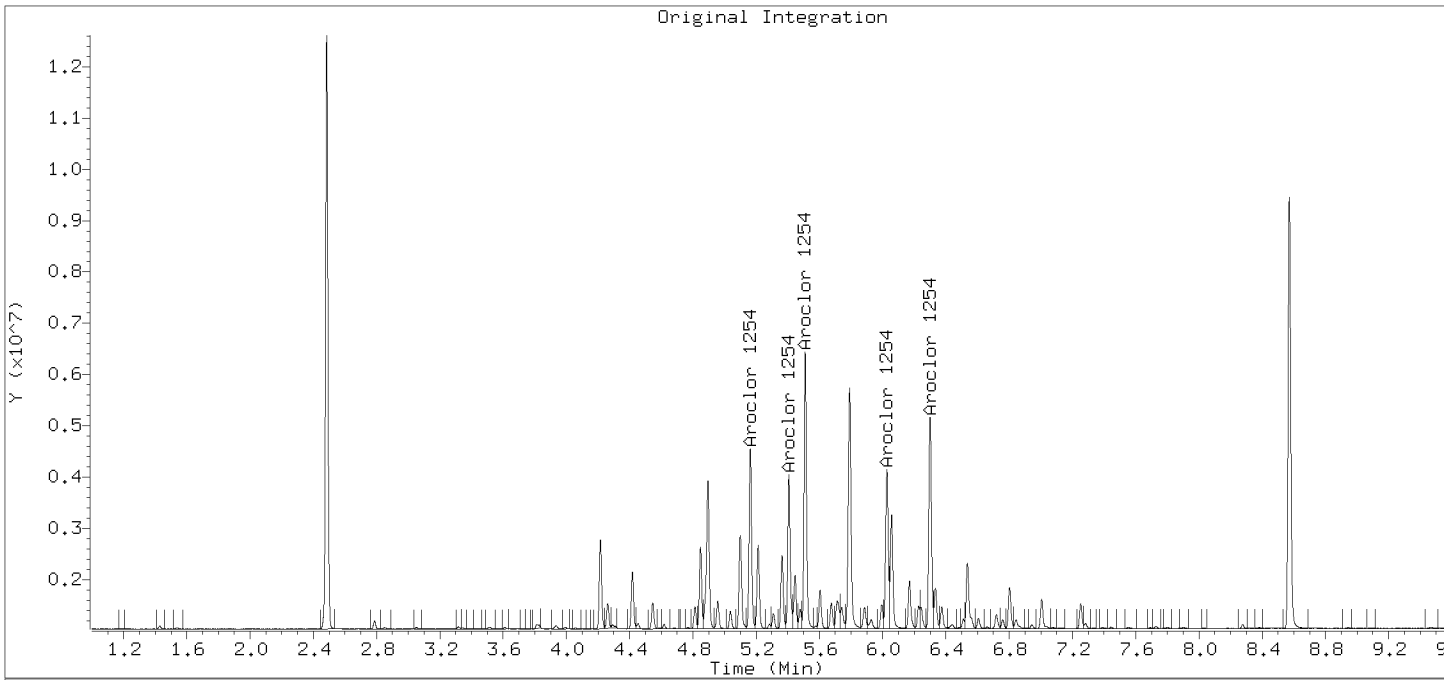
Operator: BLM

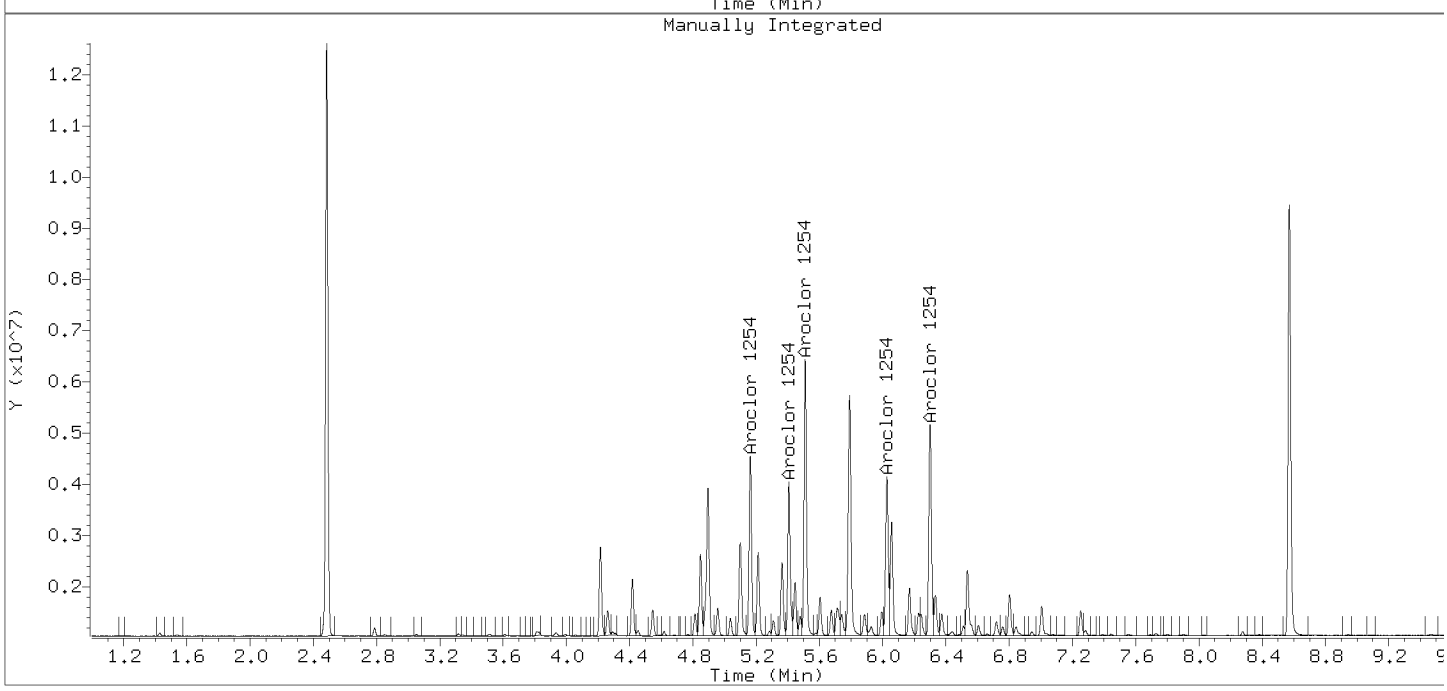
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D

Date : 06-MAR-2018 18:02

Client ID: 1254-CAL5C

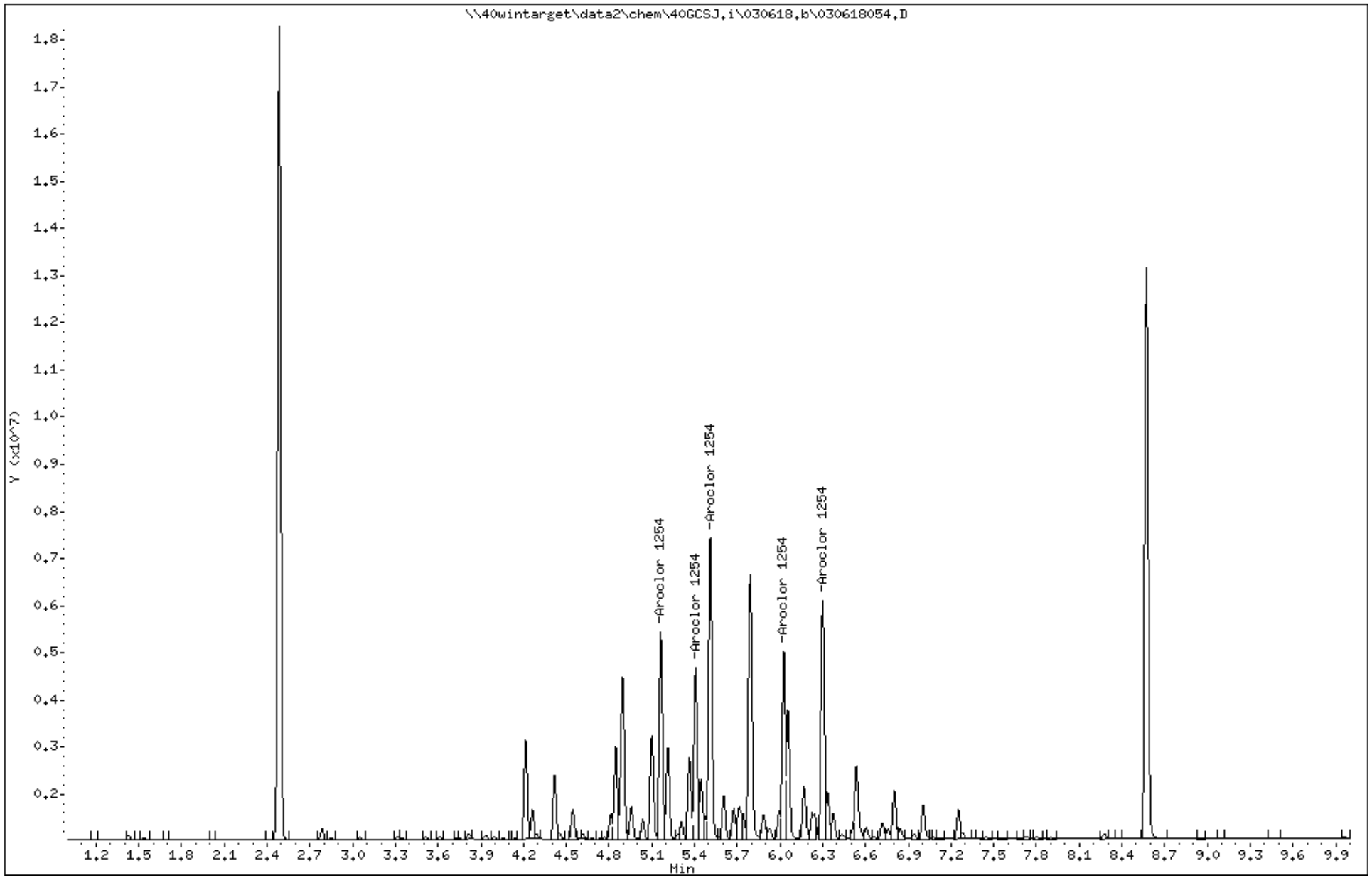
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

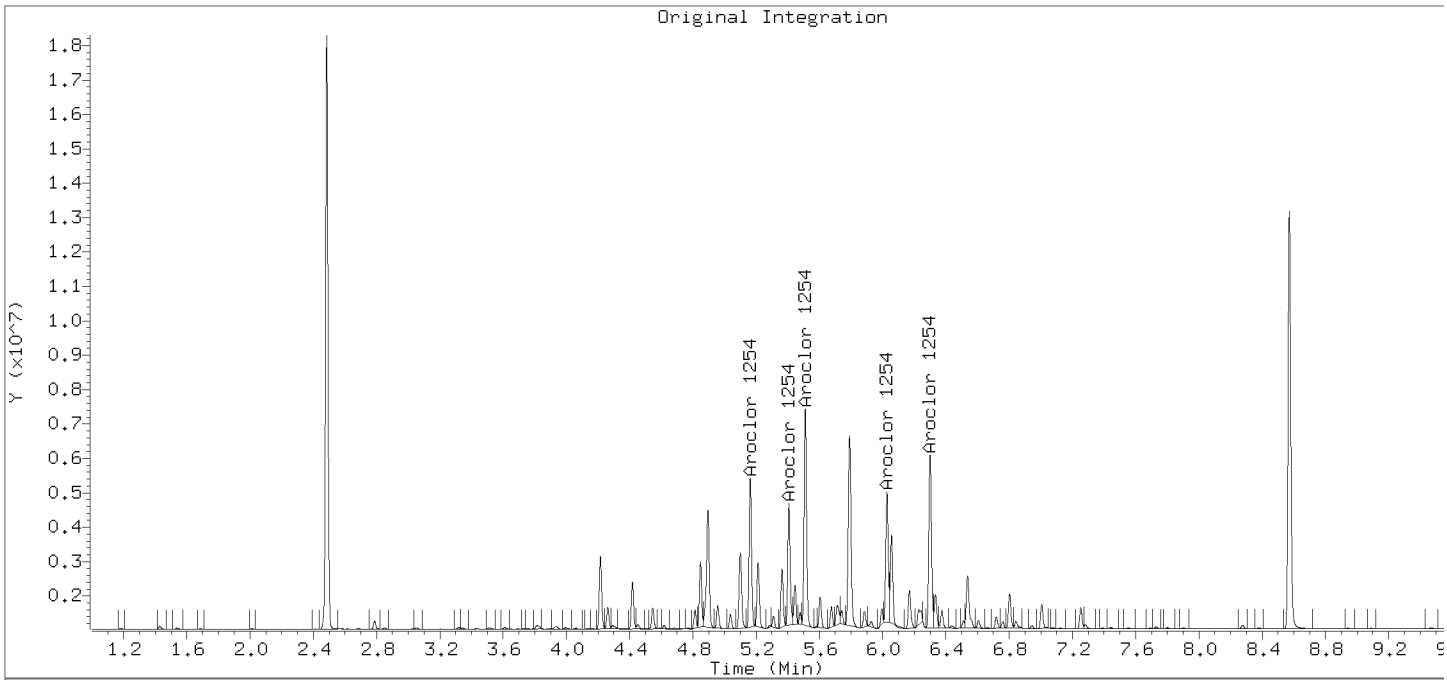
Operator: BLM

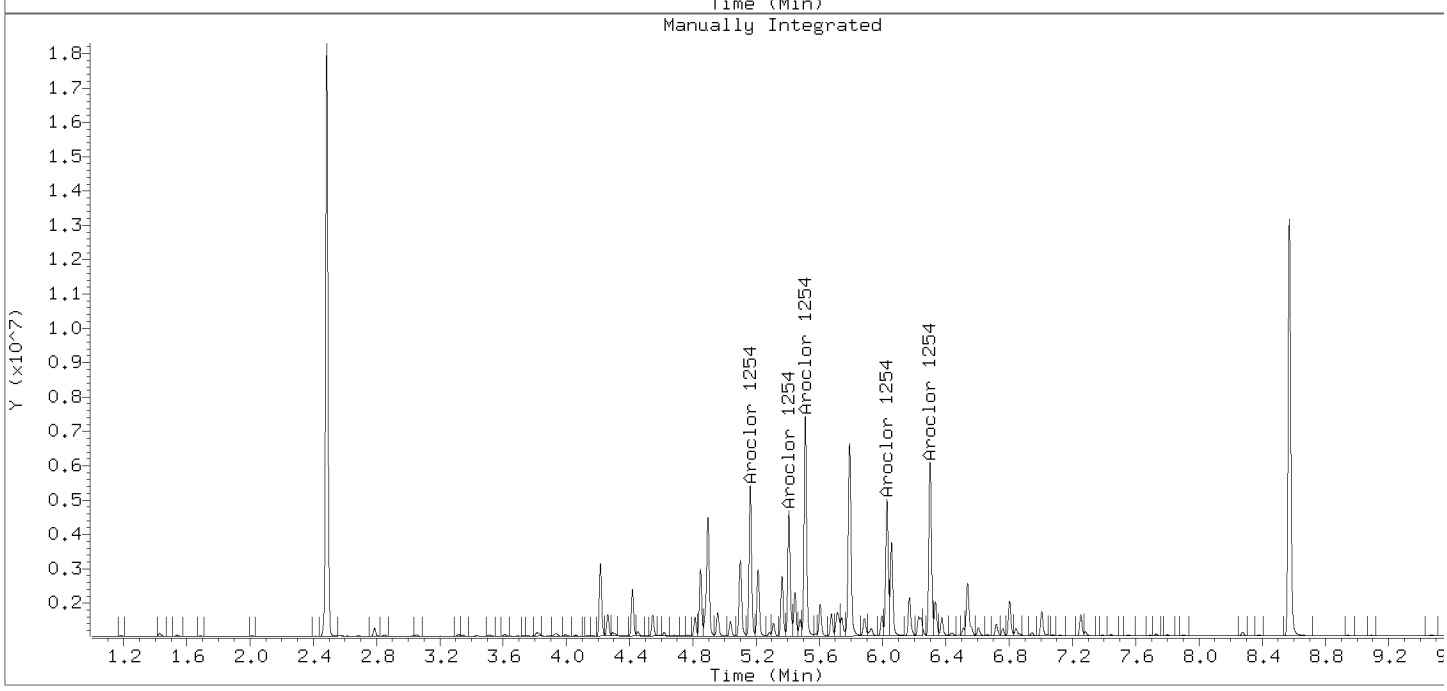
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

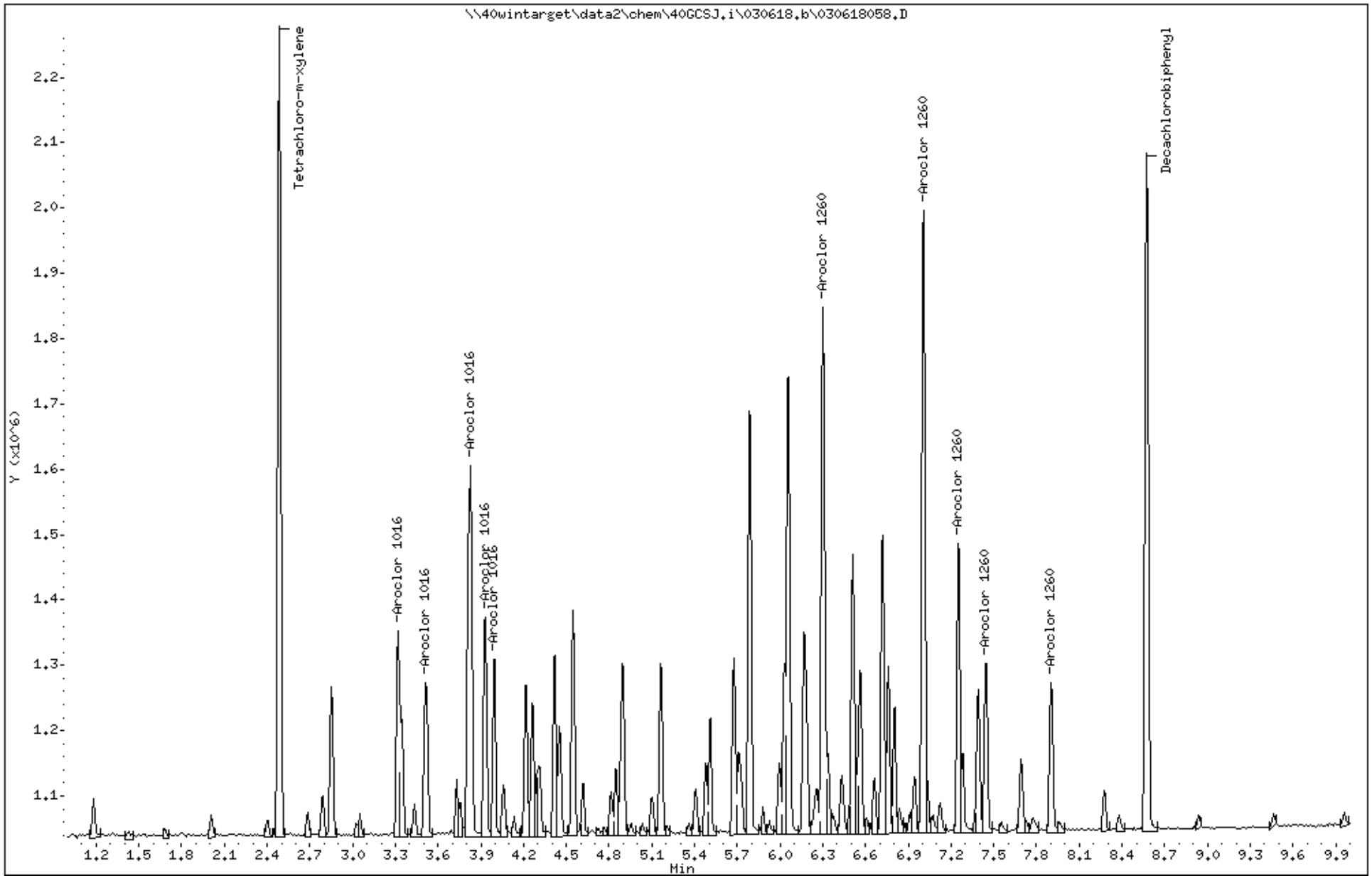
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

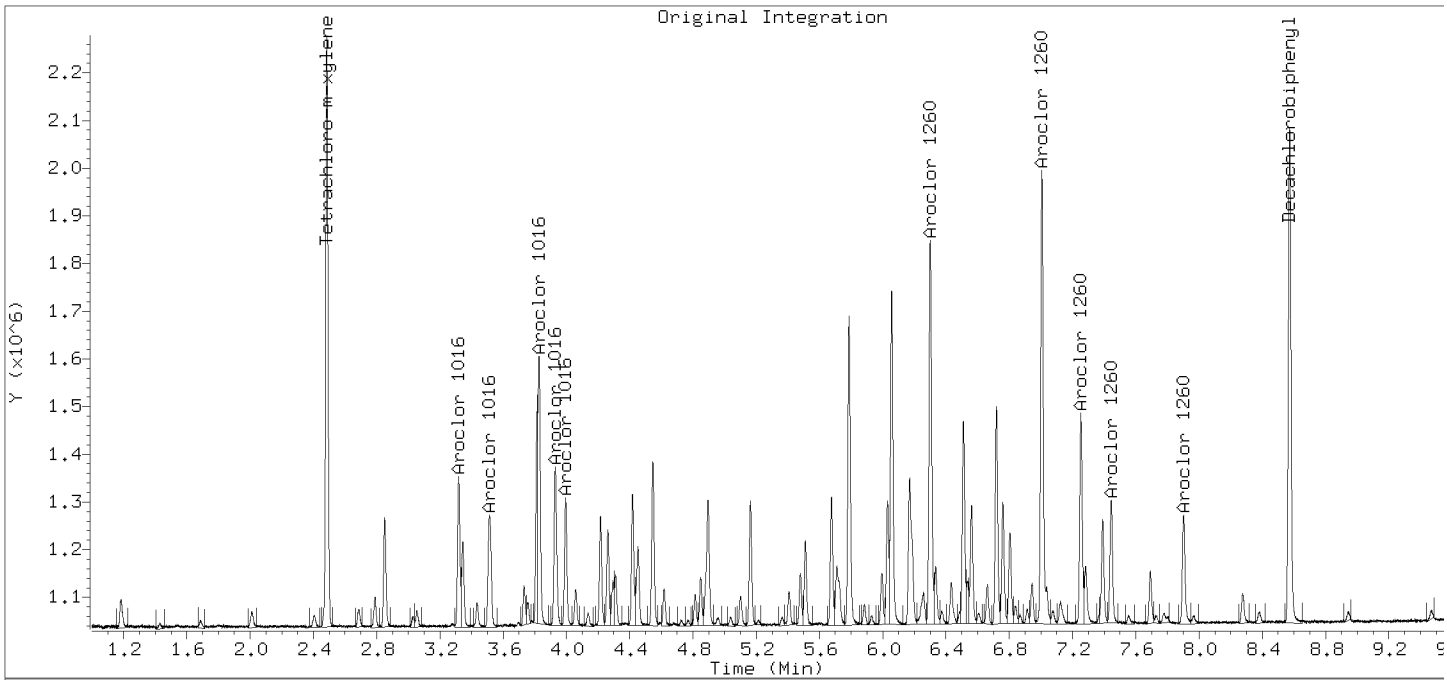
Operator: BLM

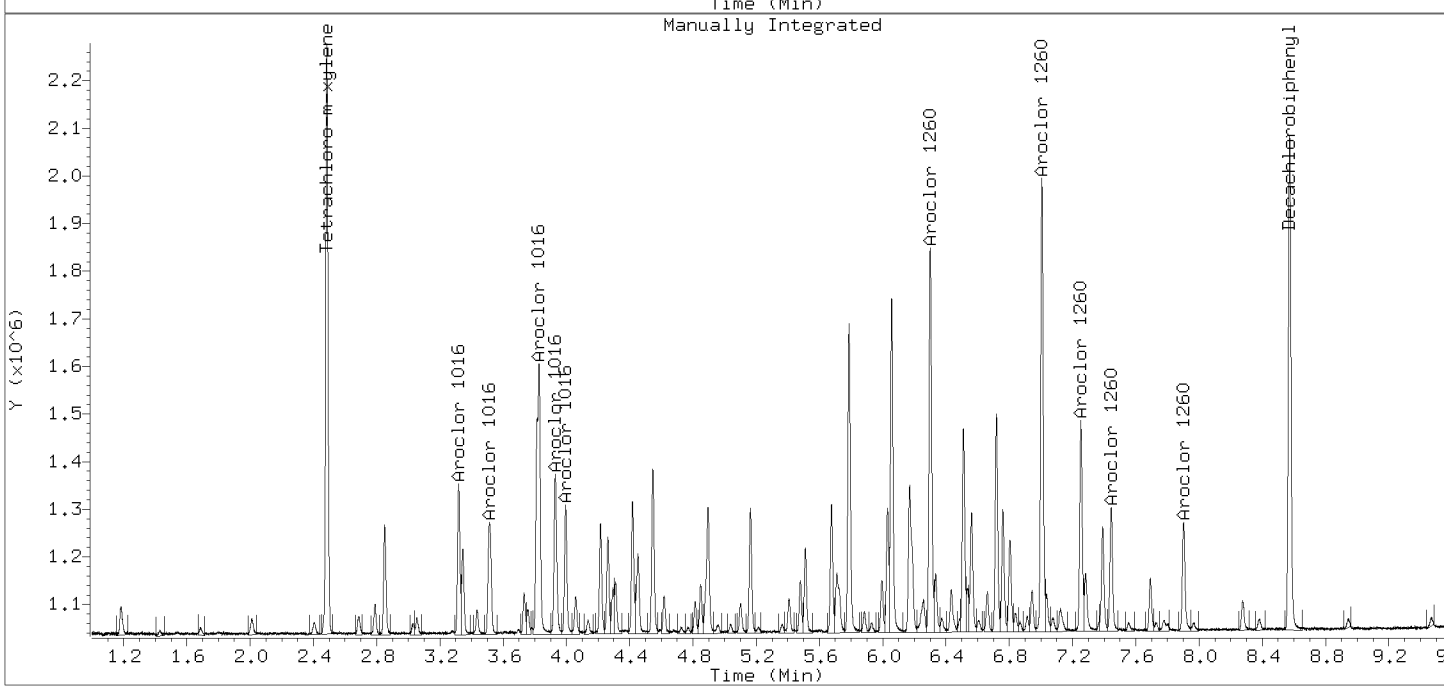
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

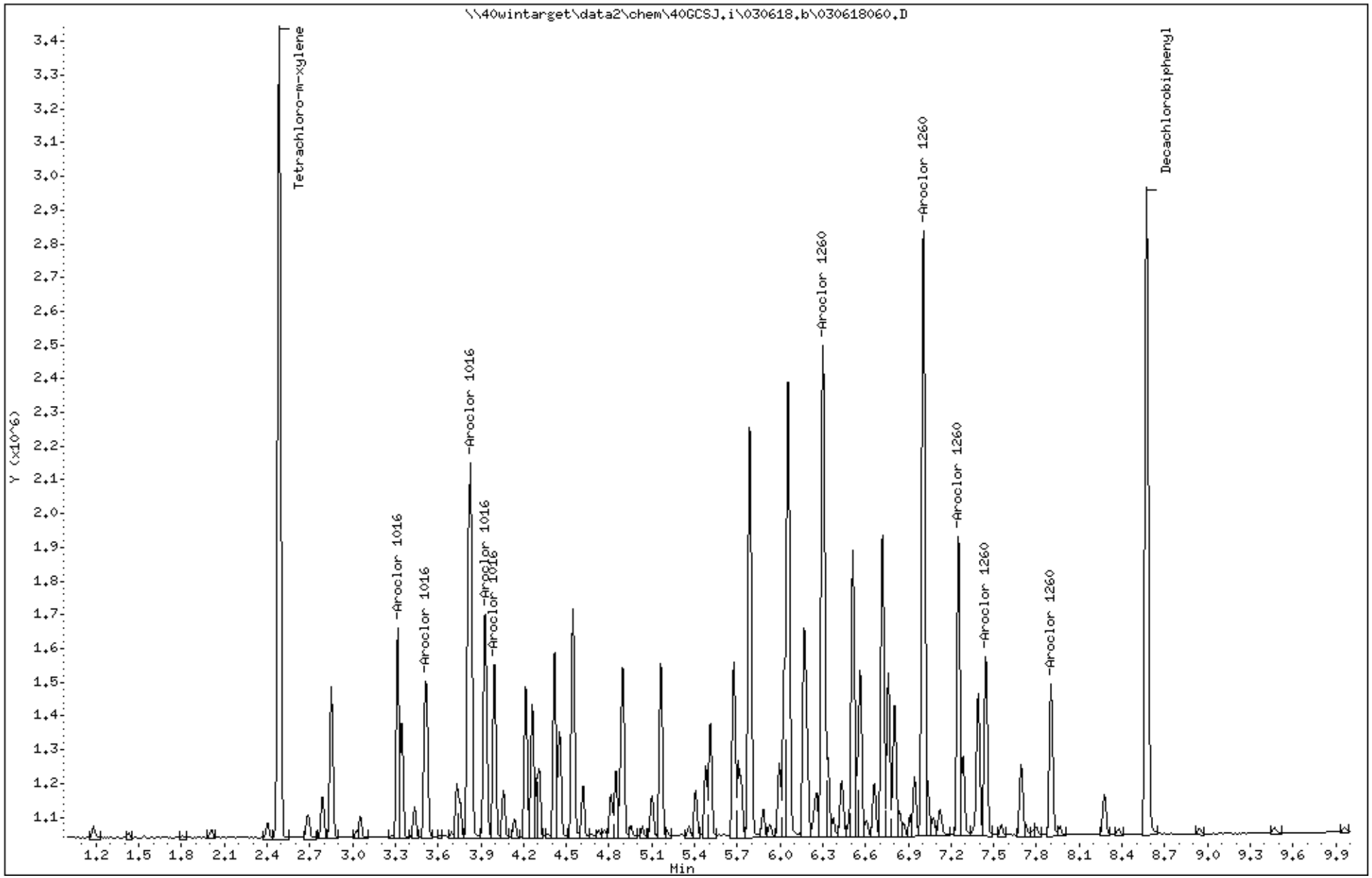
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

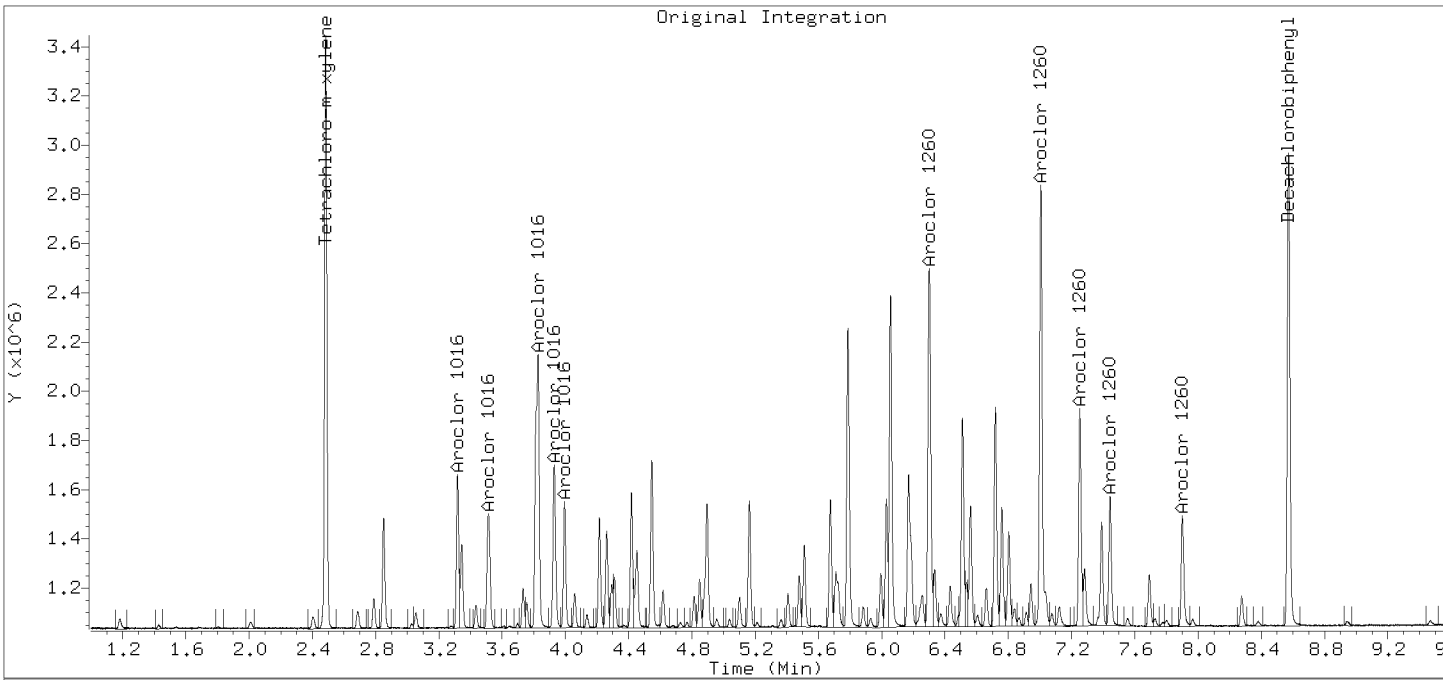
Operator: BLM

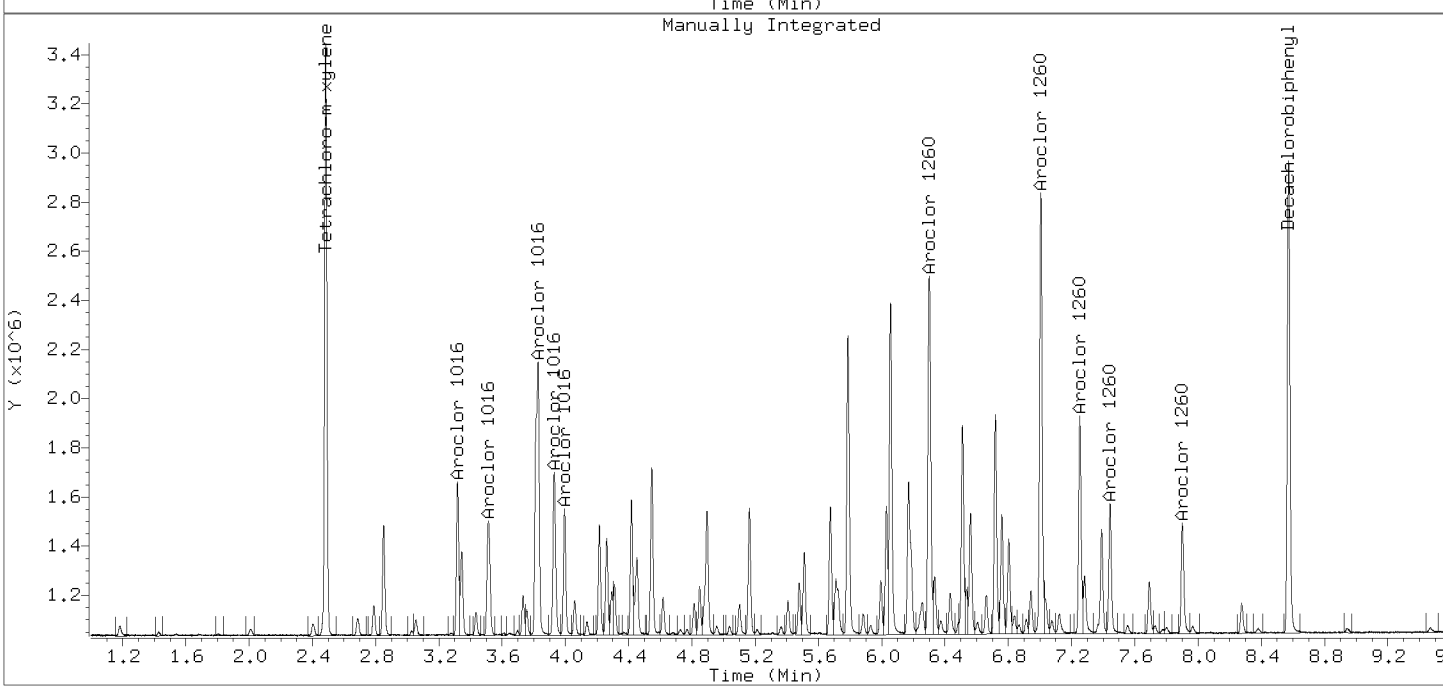
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

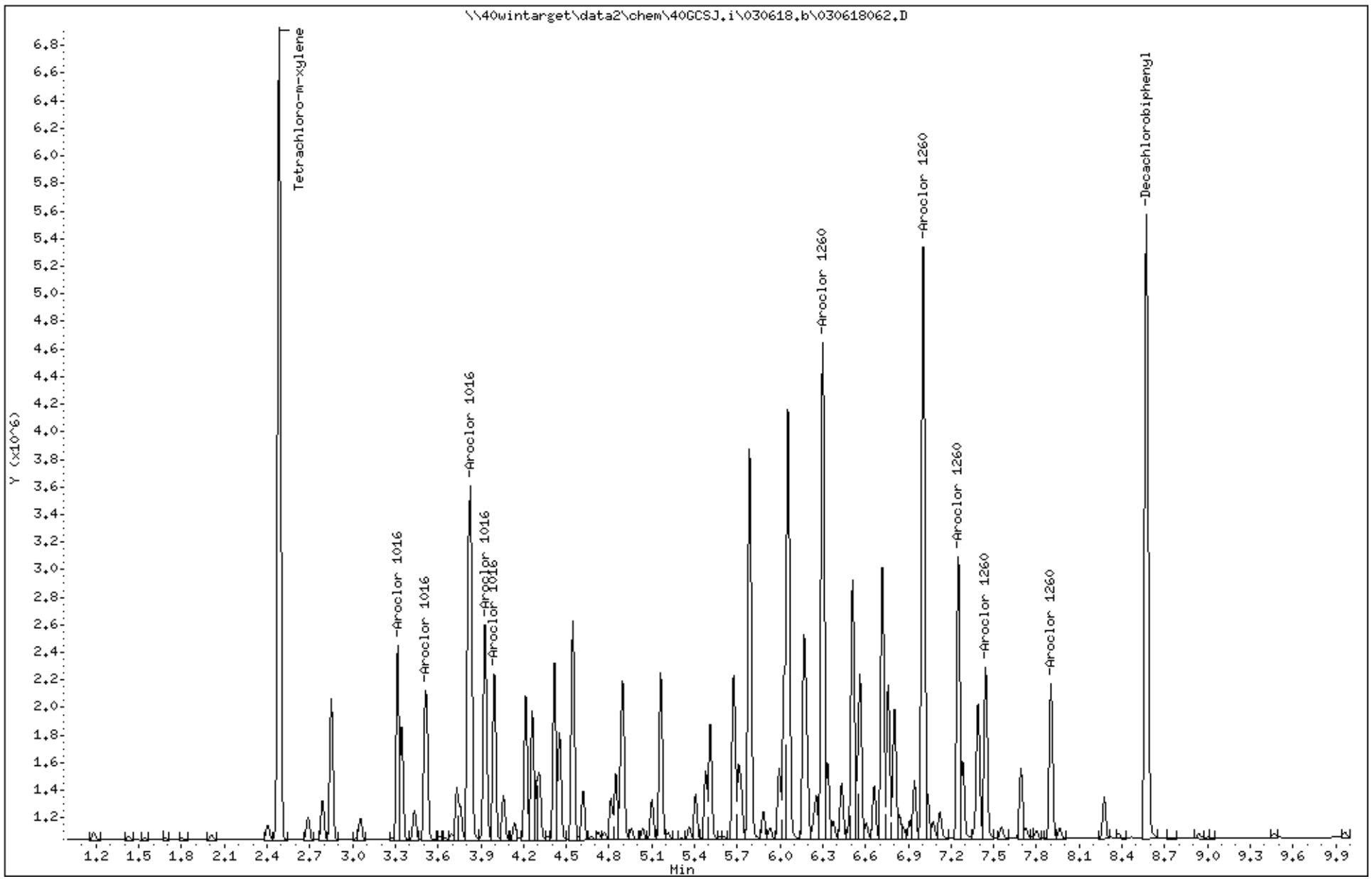
QC Flag Legend

Review Codes Legend

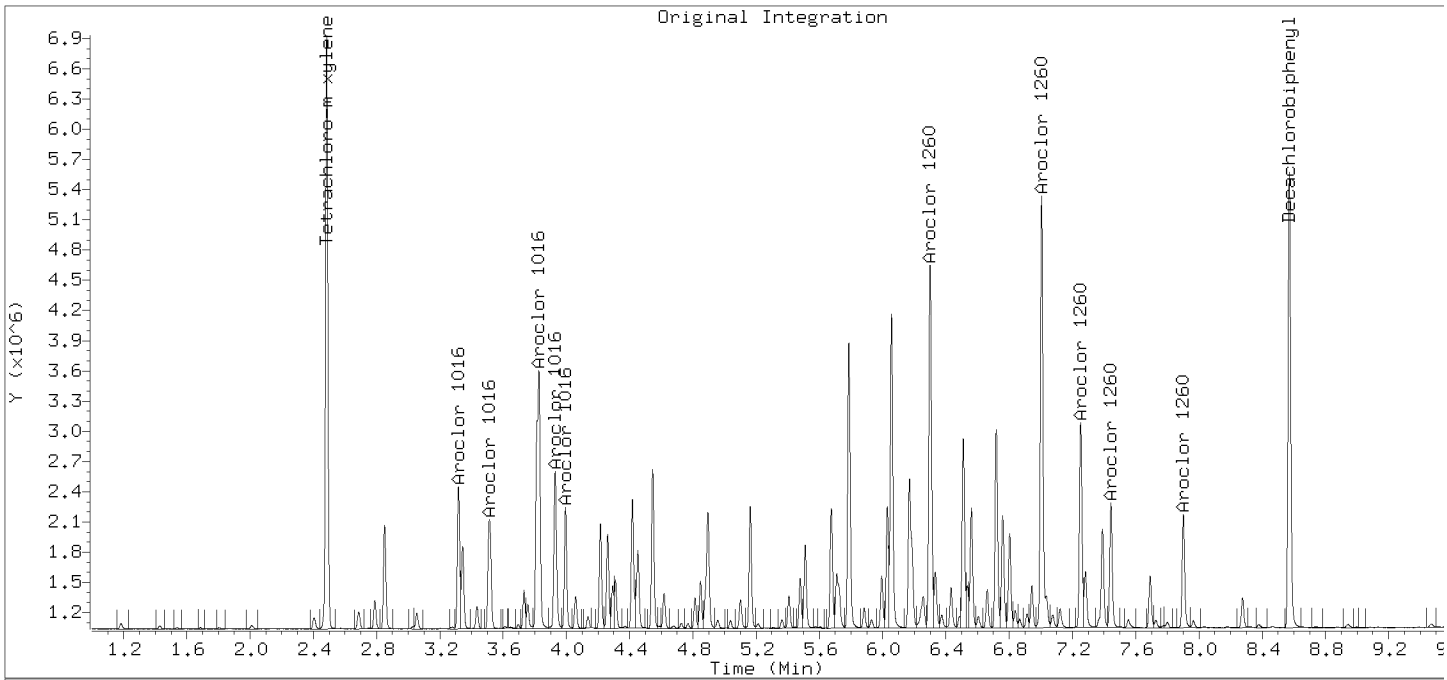
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

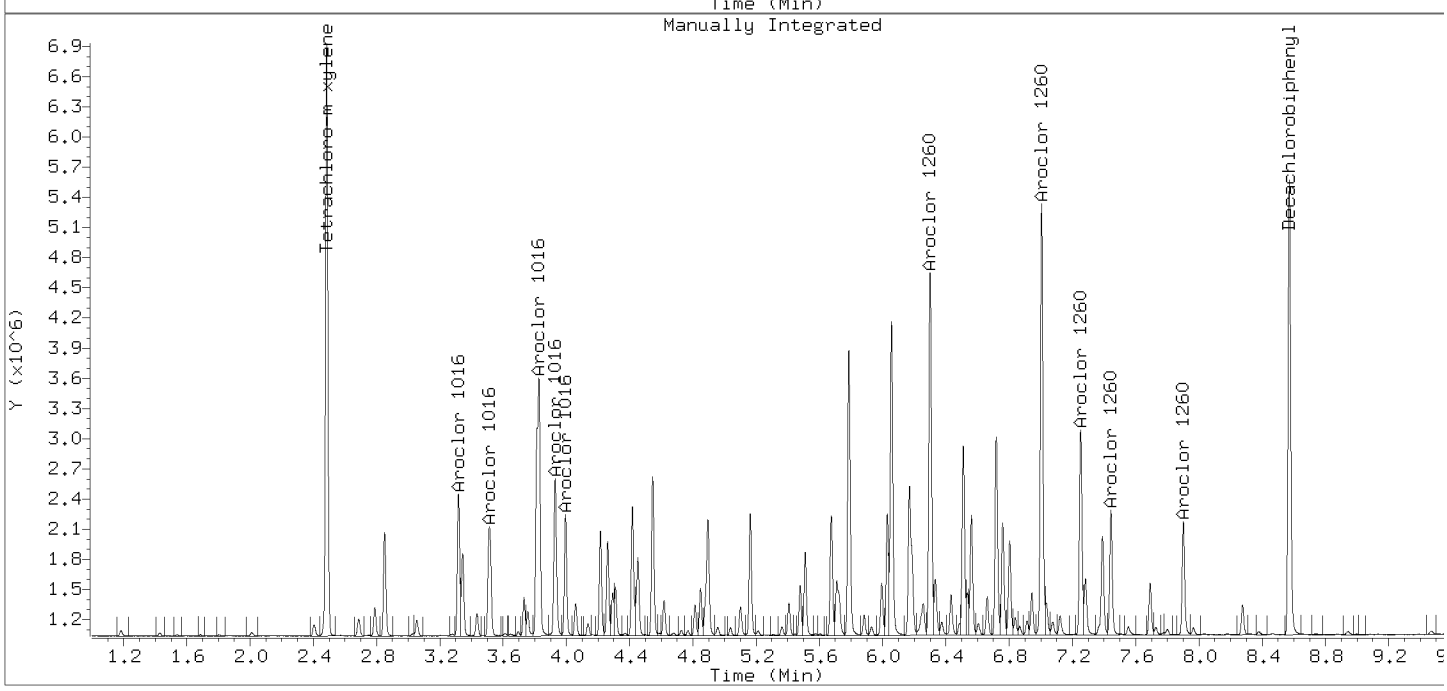
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

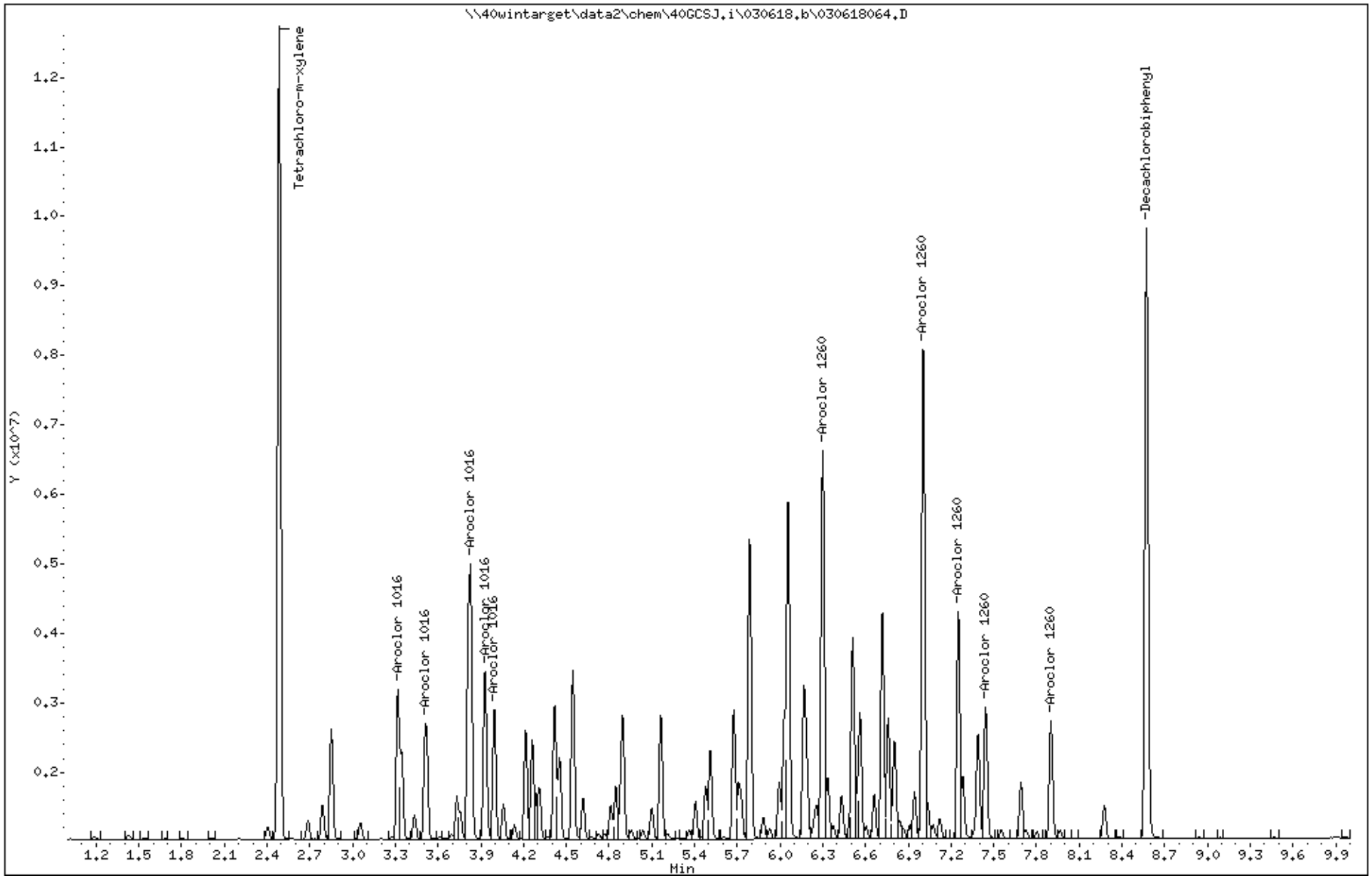
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

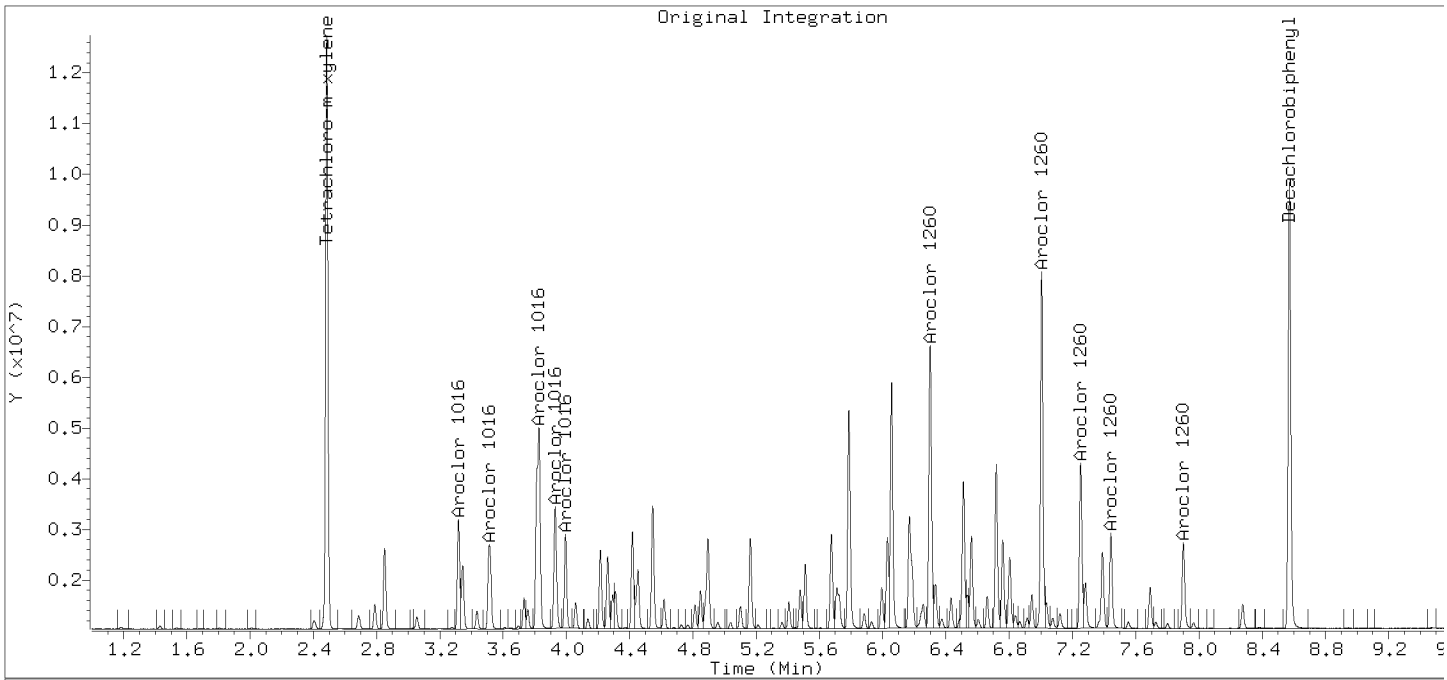
Operator: BLM

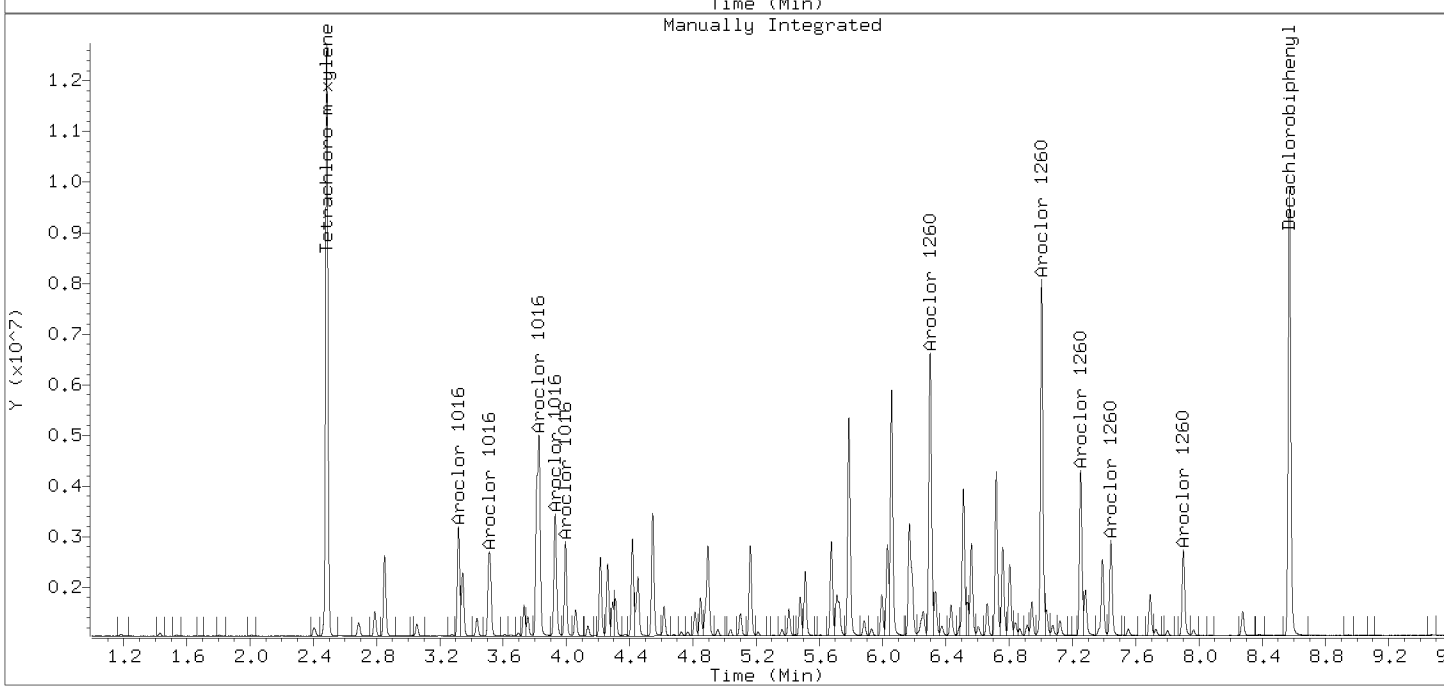
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

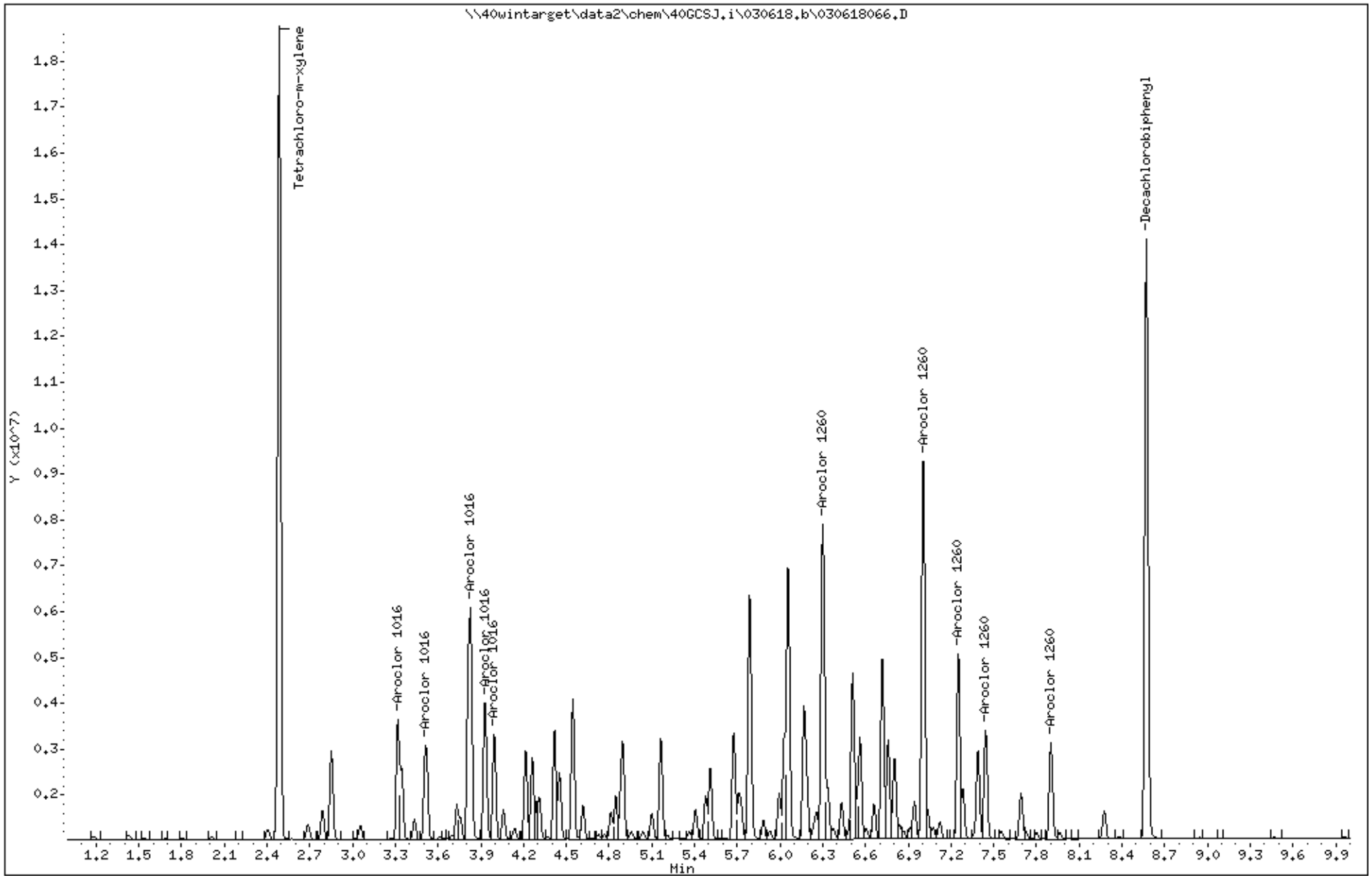
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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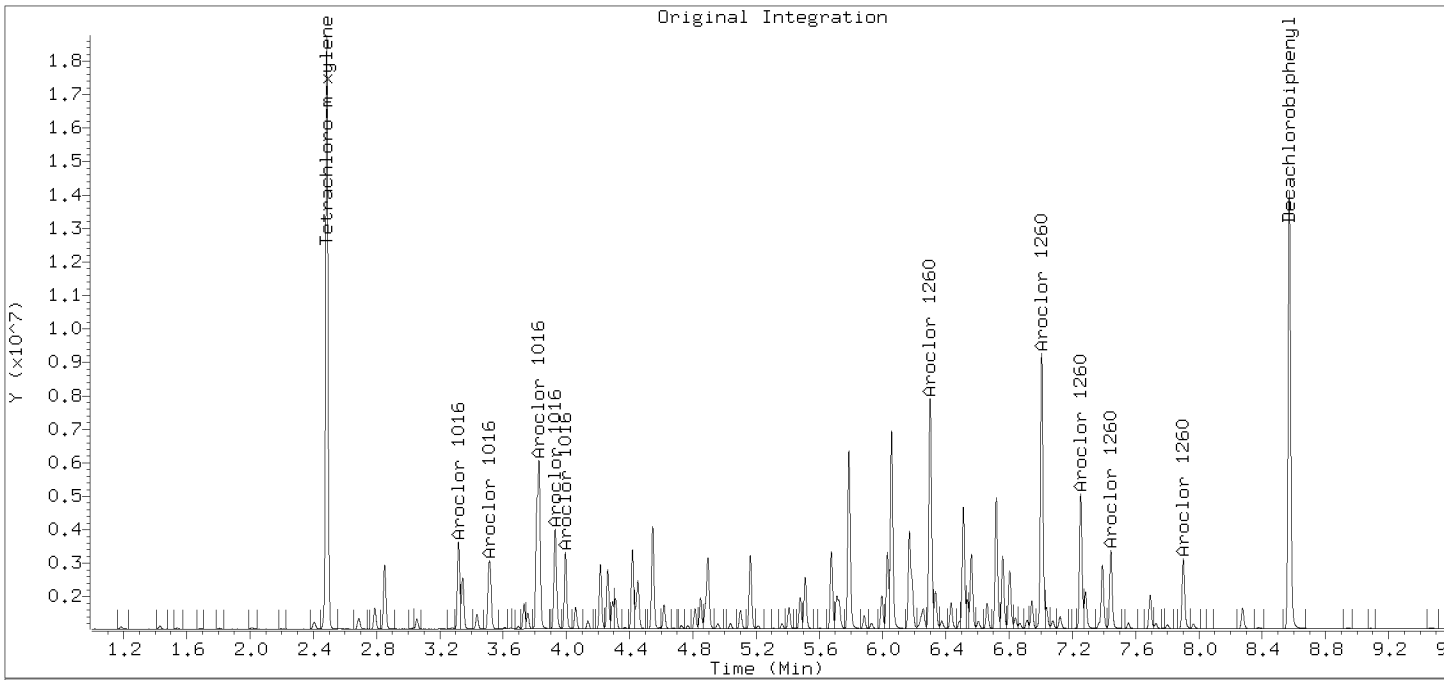
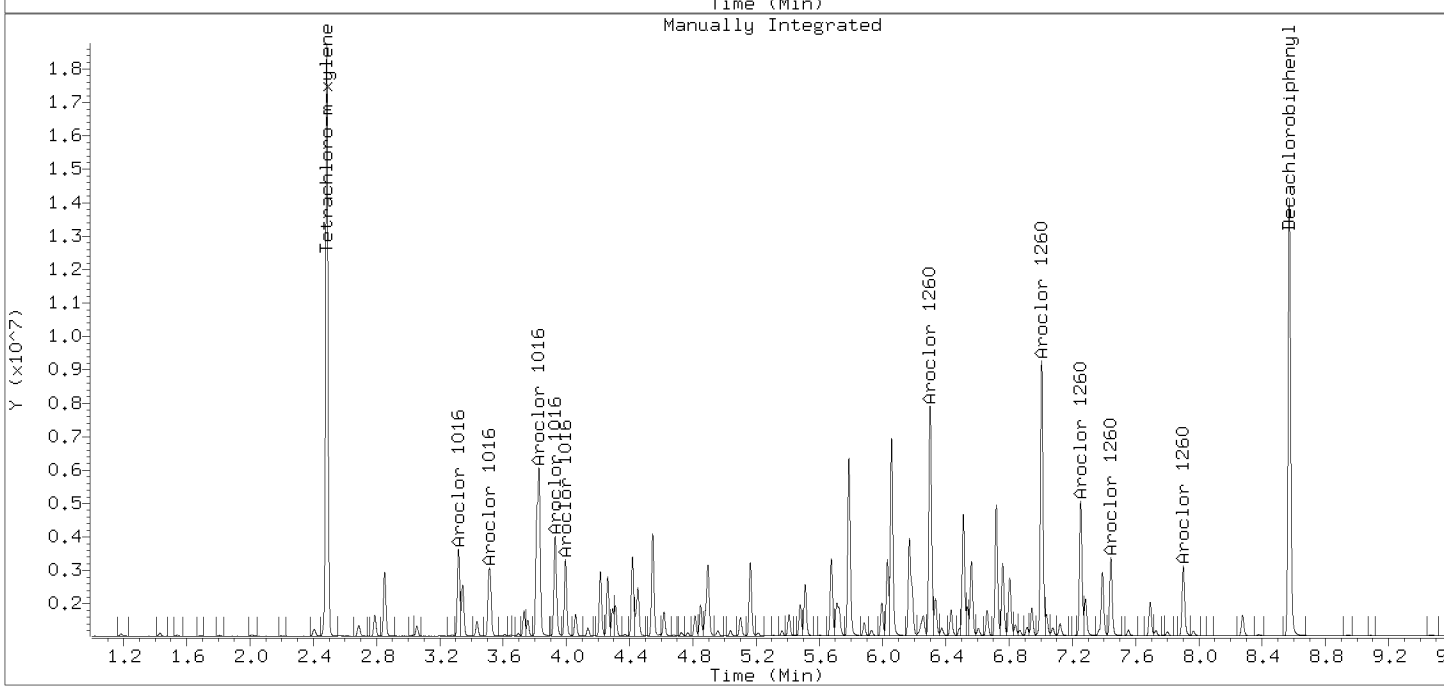
Injection Date: 06-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL5A





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.: 40151612

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.: 40151612

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.: 40151612

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.: 40151612

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.: 40151612

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.

10845387CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/22/2018 Time: 13:10

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

Lab File ID: 032218.B\032218004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151612

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	5096744.00	-2.6456
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	4191240.00	-2.5532
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	7497868.00	-3.4534
Aroclor 1254	4	Averaged	6.025	5.993	6.061	4869683.55	4685356.00	-3.7852
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	6254422.00	-3.8832
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	104003980.	-5.0712
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118484840.	-3.9014

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

SAMPLE NO.

10845410CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/22/2018 Time: 16:20

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

Lab File ID: 032218.B\032218016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151612

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	3169934.00	2.8922
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3175694.00	2.4747
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9188010.00	3.6812
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	3918566.00	3.6596
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2625482.00	0.8502
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	9276752.00	4.6760
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10576404.0	5.6122
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5149788.00	7.7406
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3040670.00	4.3072
Aroclor 1260	5	Averaged	7.898	7.867	7.935	2638735.95	2770182.00	4.9814
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	113063180.	3.1975
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124942260.	1.3359

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

SAMPLE NO.

10845411CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/22/2018 Time: 19:31

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

Lab File ID: 032218.B\032218028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151612

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.803	1.77	1.838	1041256.70	1031702.00	-0.9176
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	538888.000	-1.6346
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1427022.00	3.1580
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1109172.00	0.3077
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3396390.00	4.3310
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	110327020.	0.7001
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121200140.	-1.6991

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

SAMPLE NO.

10845412CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/22/2018 Time: 21:06

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

Lab File ID: 032218.B\032218034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151612

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.85	2.817	2.885	2500024.00	2724754.00	8.9891
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1413284.00	5.4861
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	4117398.00	9.8053
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1767326.00	10.0115
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1165790.00	6.7695
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	110524280.	0.8801
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119952840.	-2.7108

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

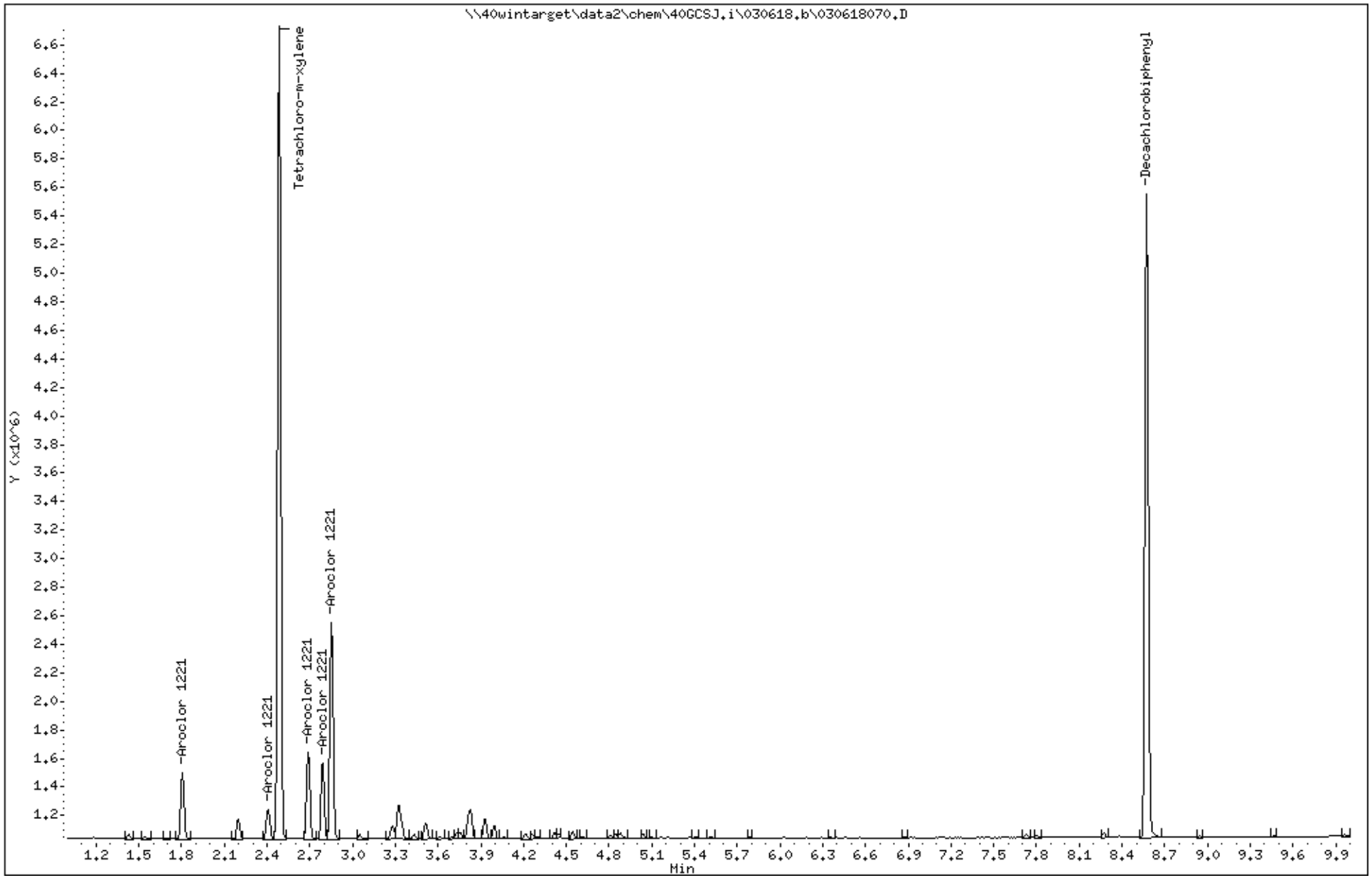
M - Compound response manually integrated.

Review Codes Legend

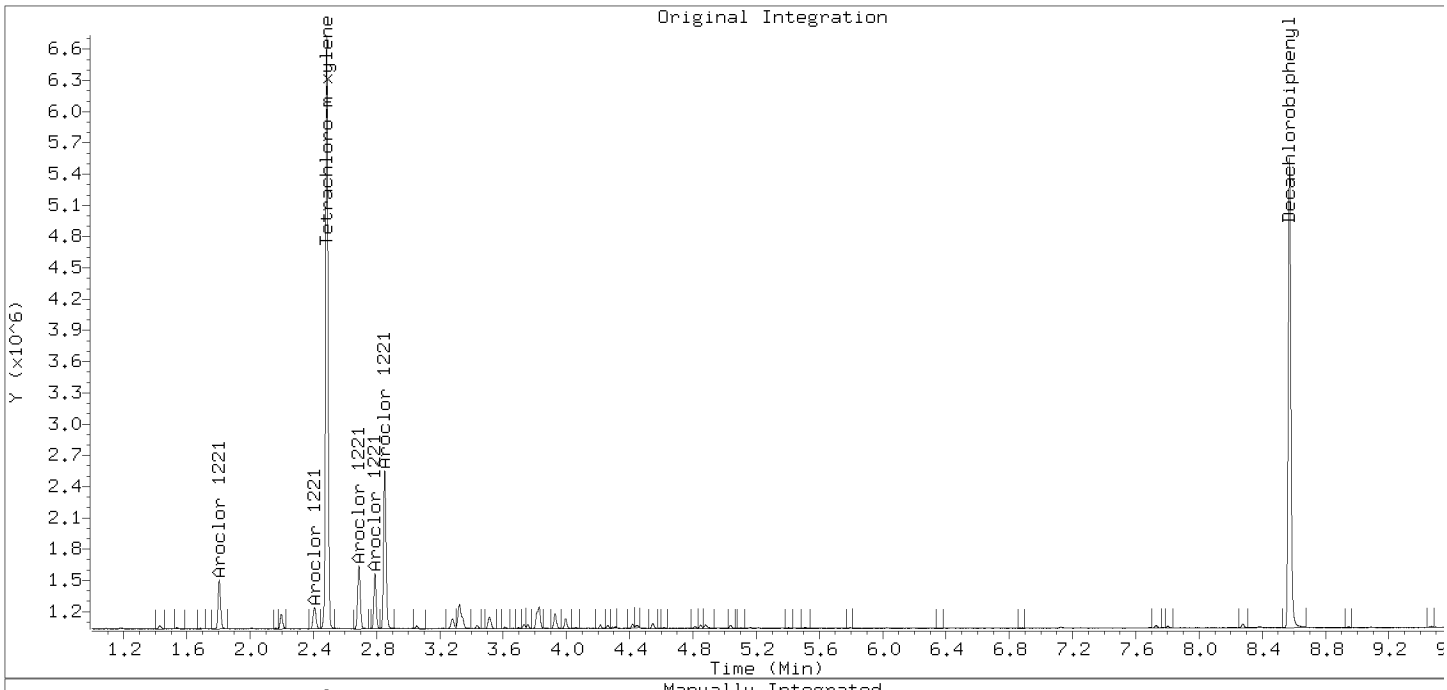
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

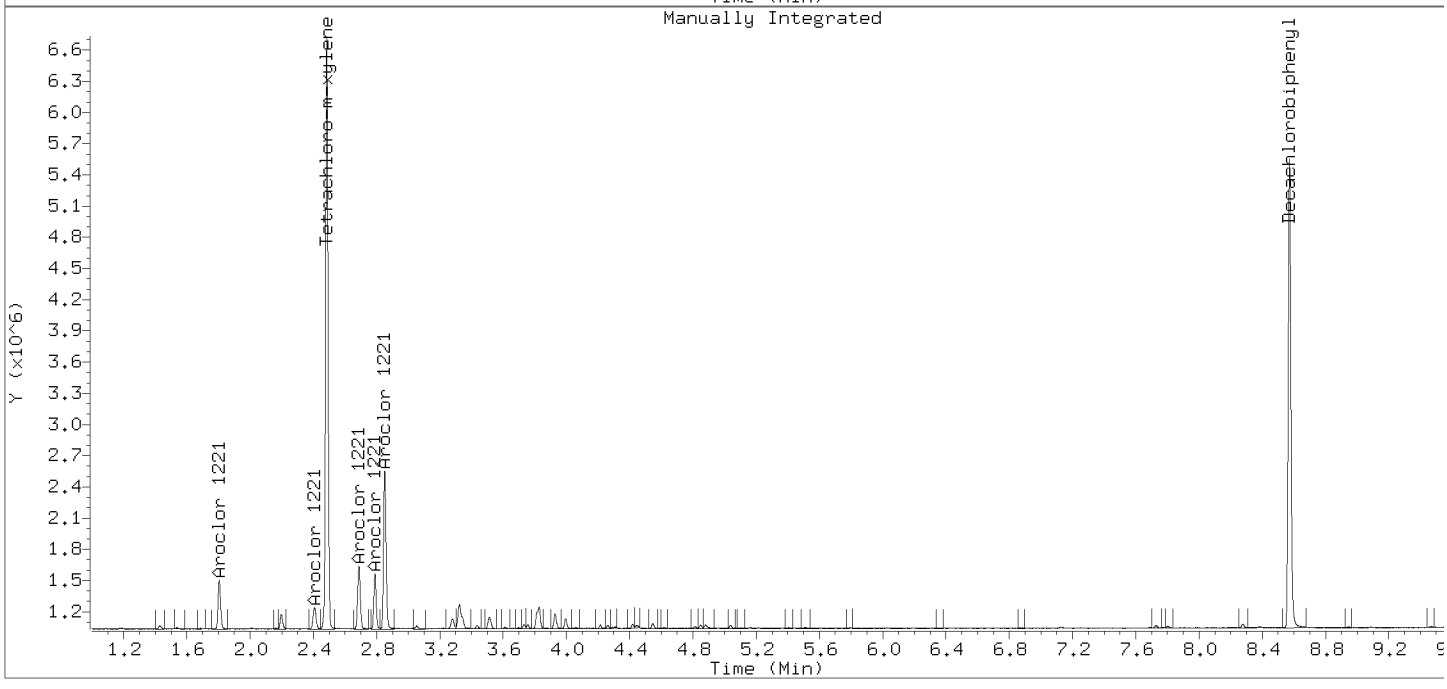
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

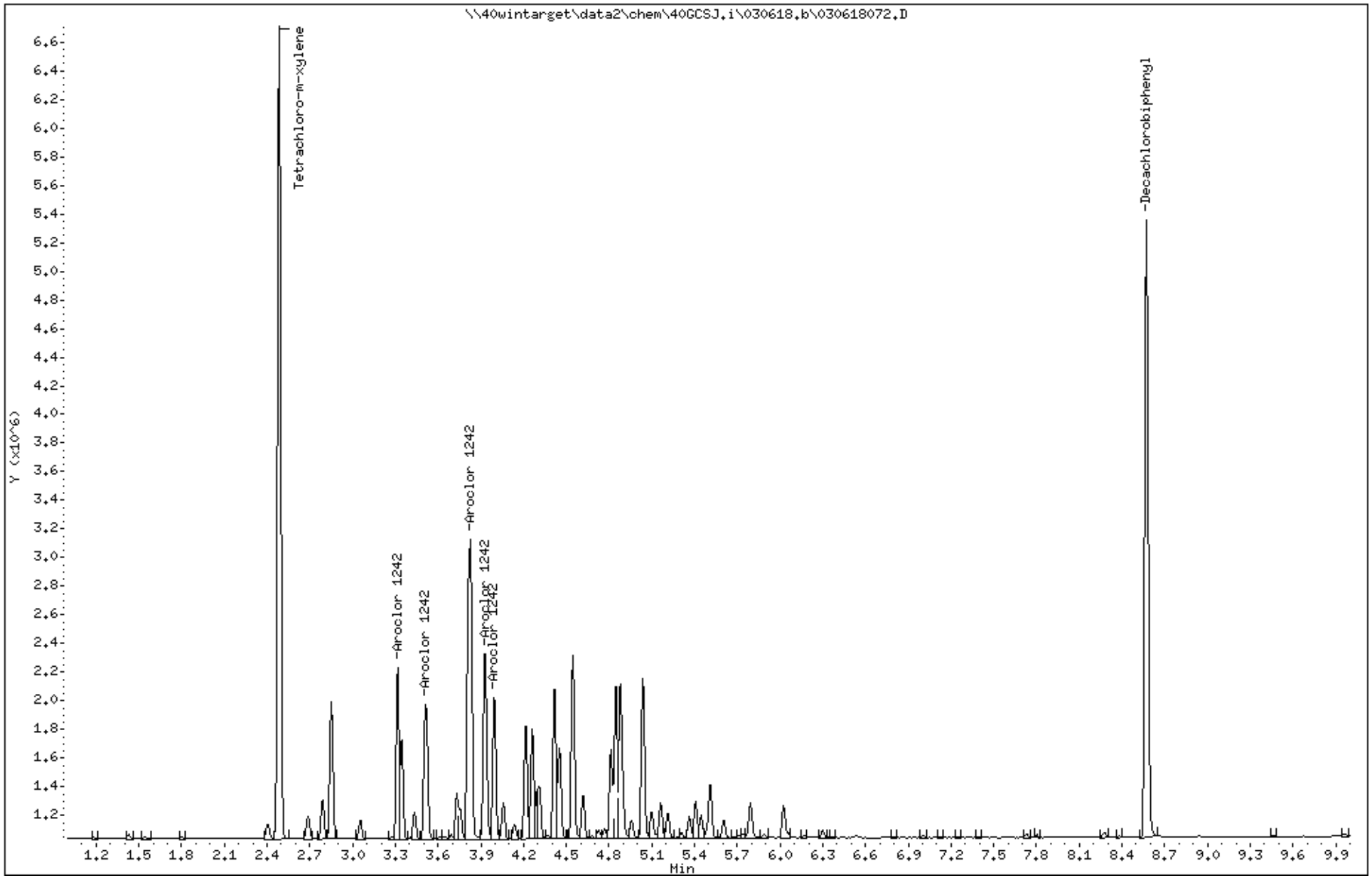
M - Compound response manually integrated.

Review Codes Legend

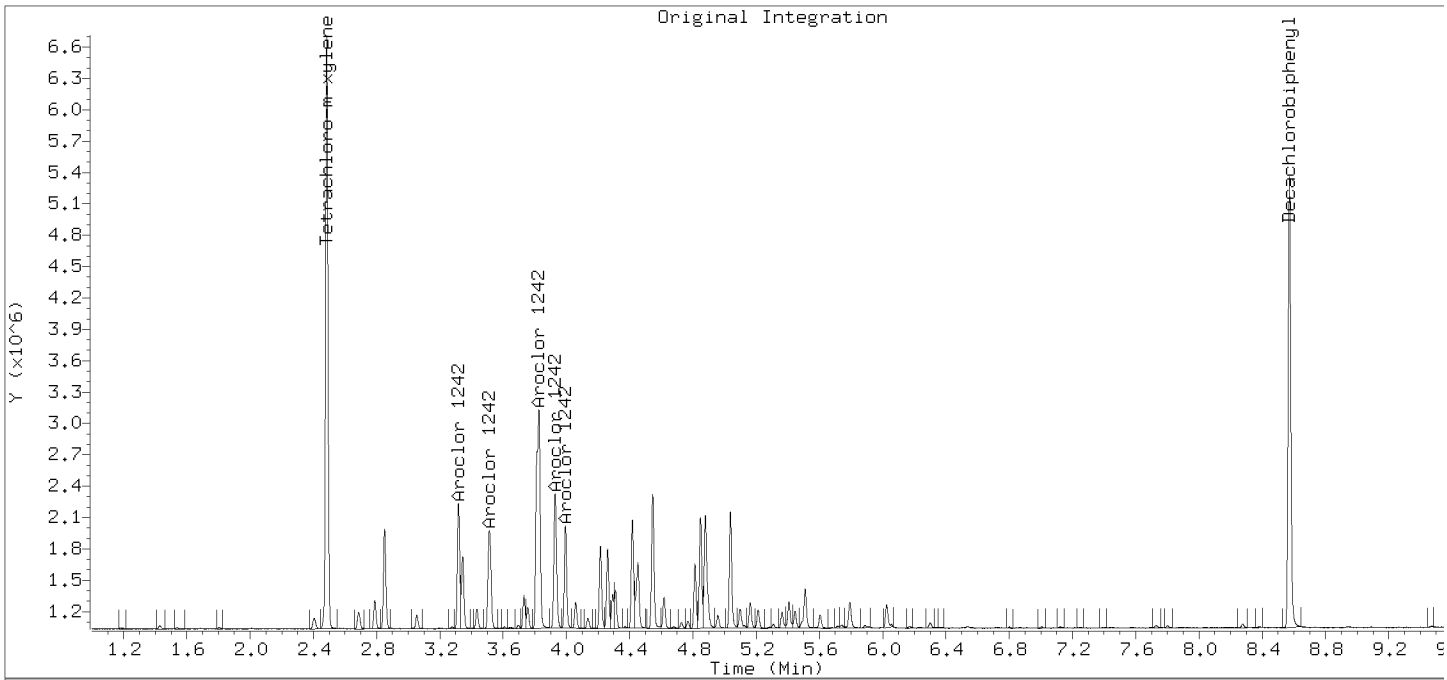
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

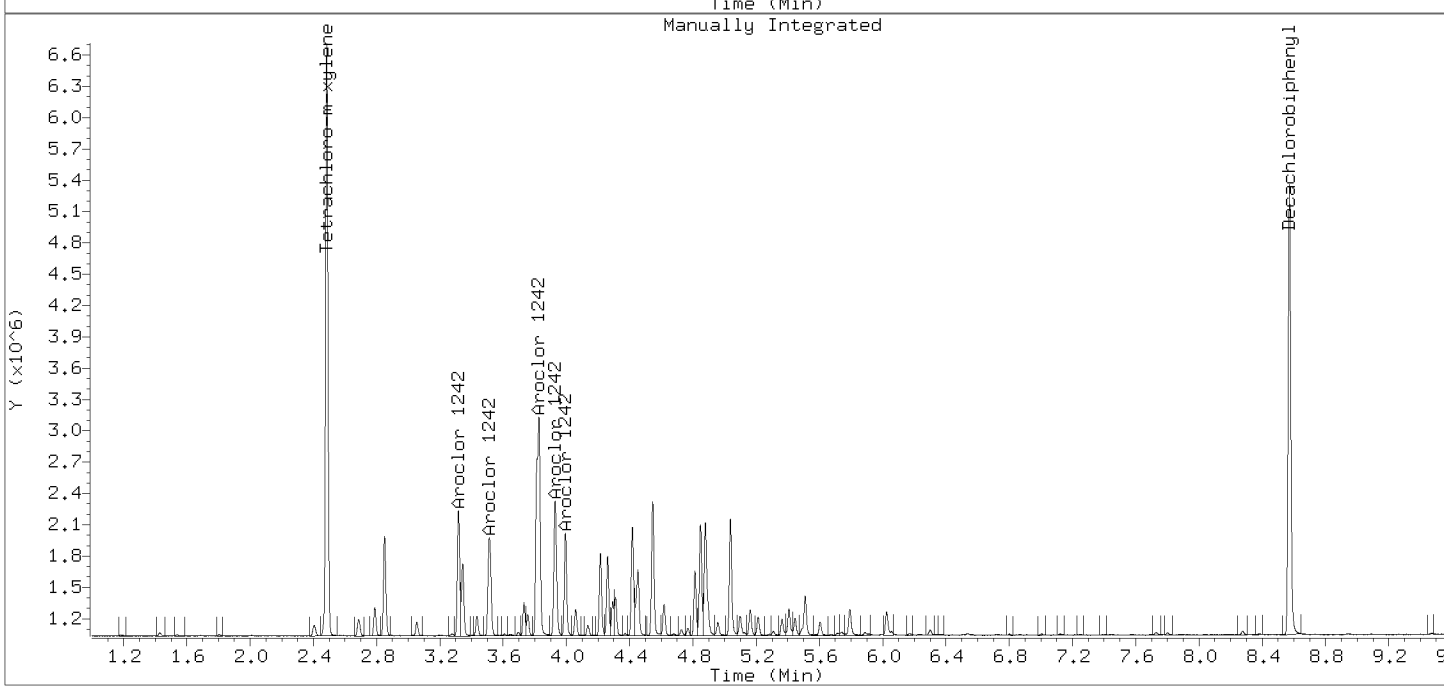
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

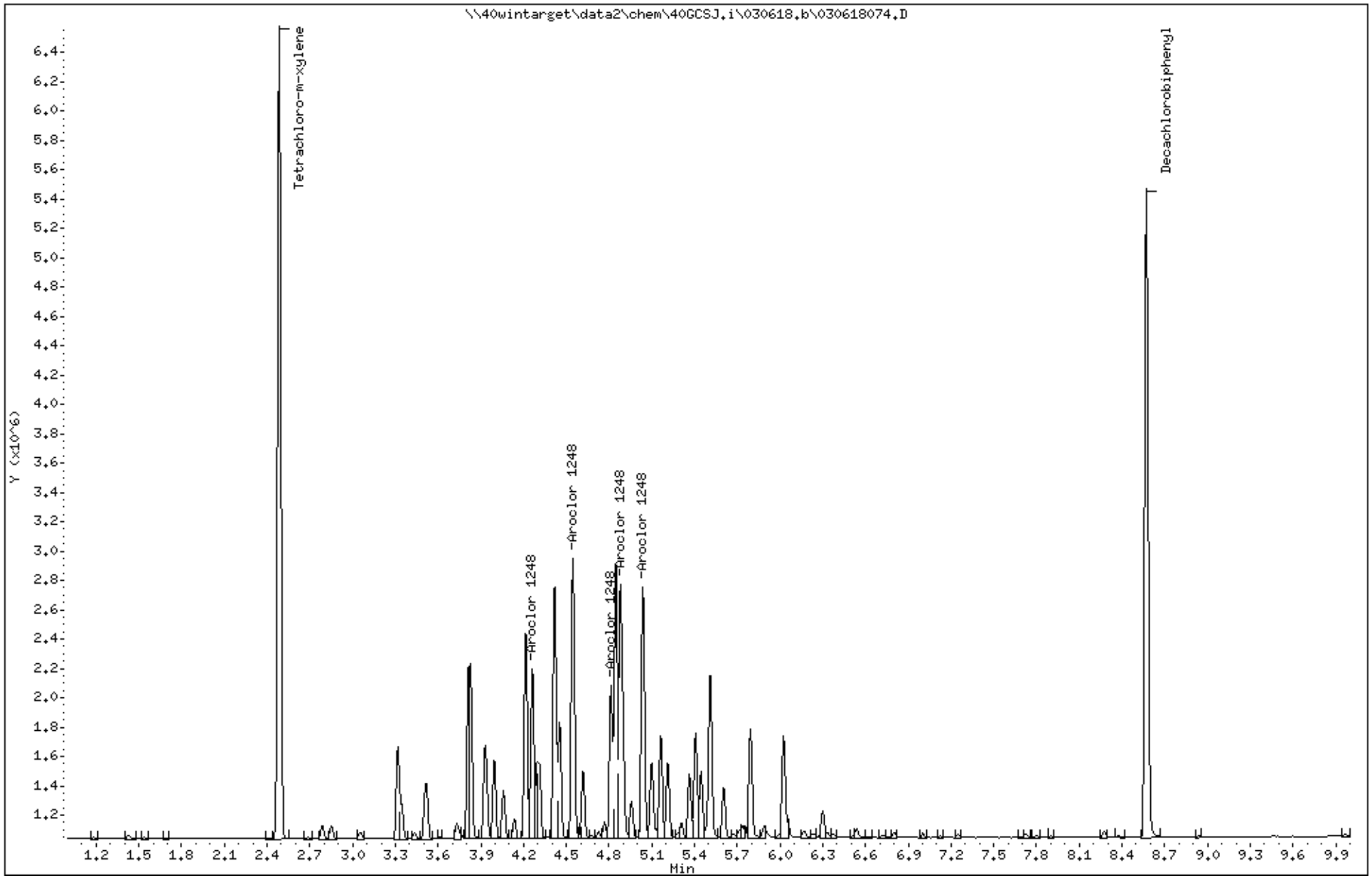
M - Compound response manually integrated.

Review Codes Legend

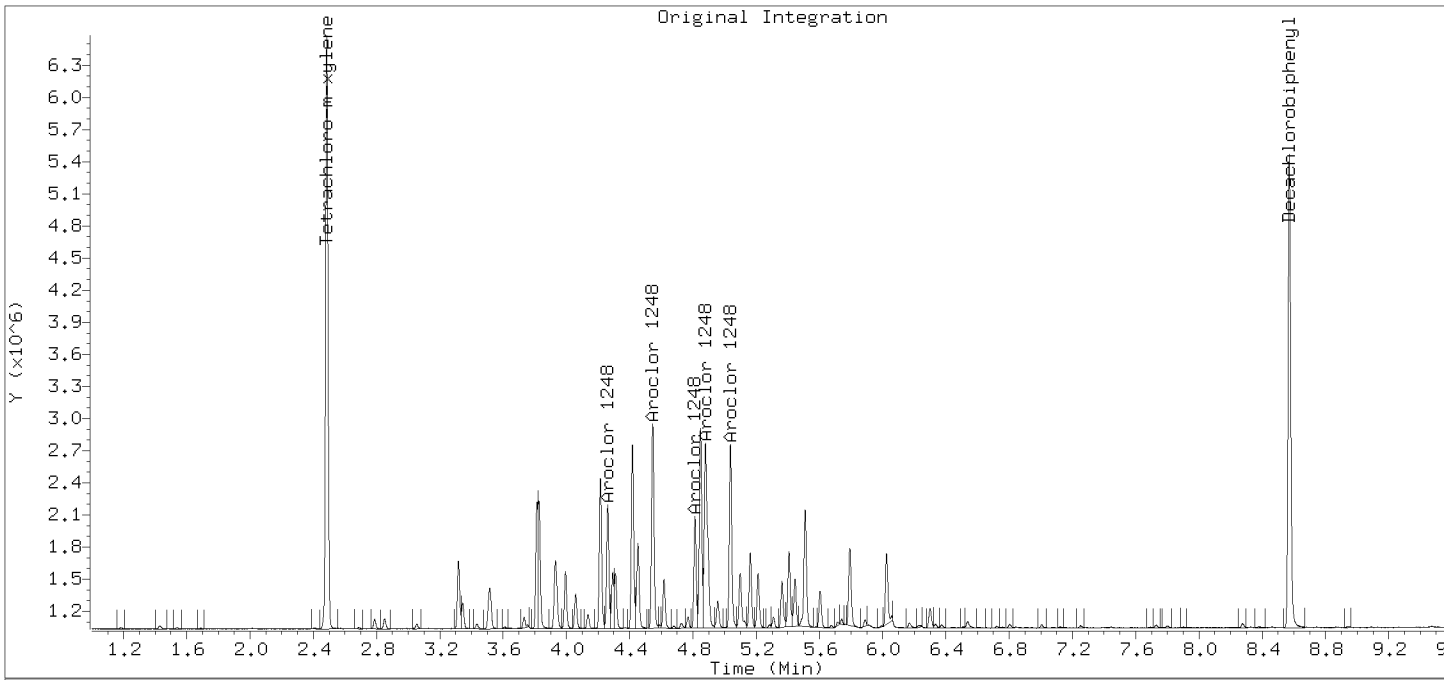
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

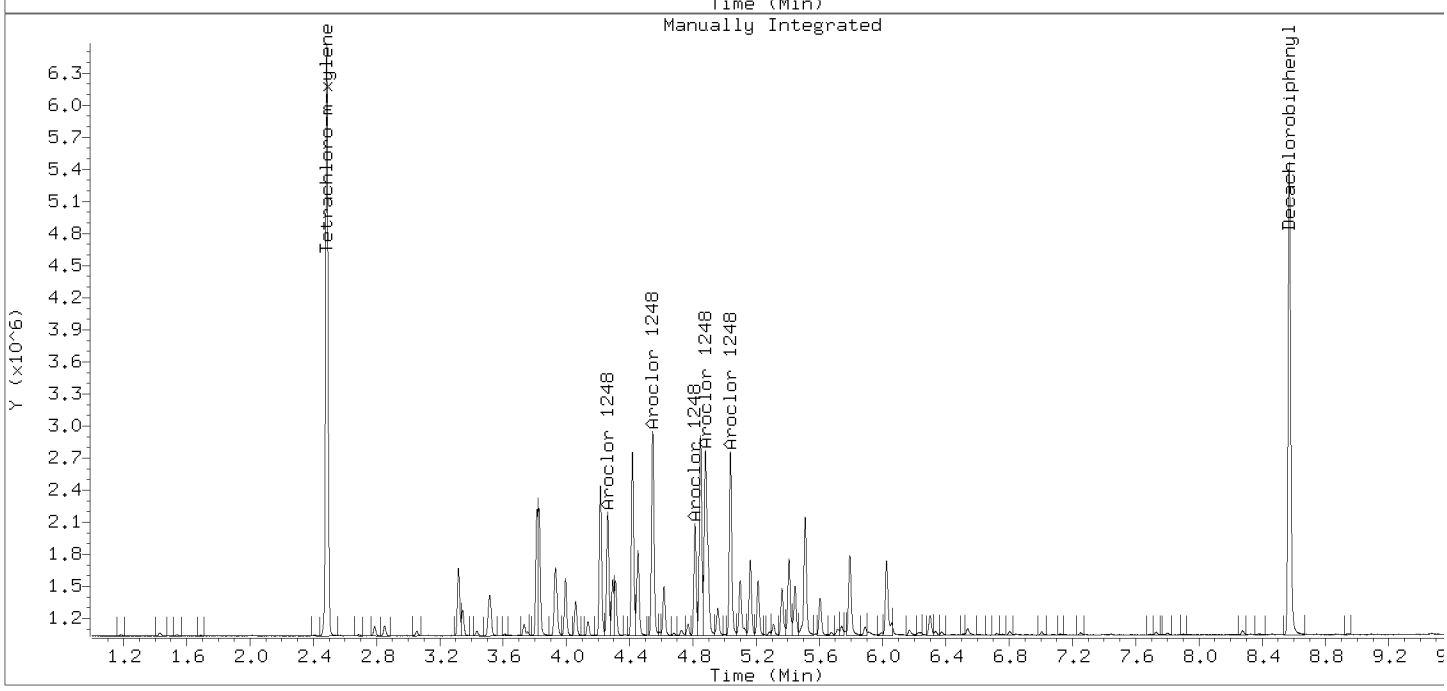
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

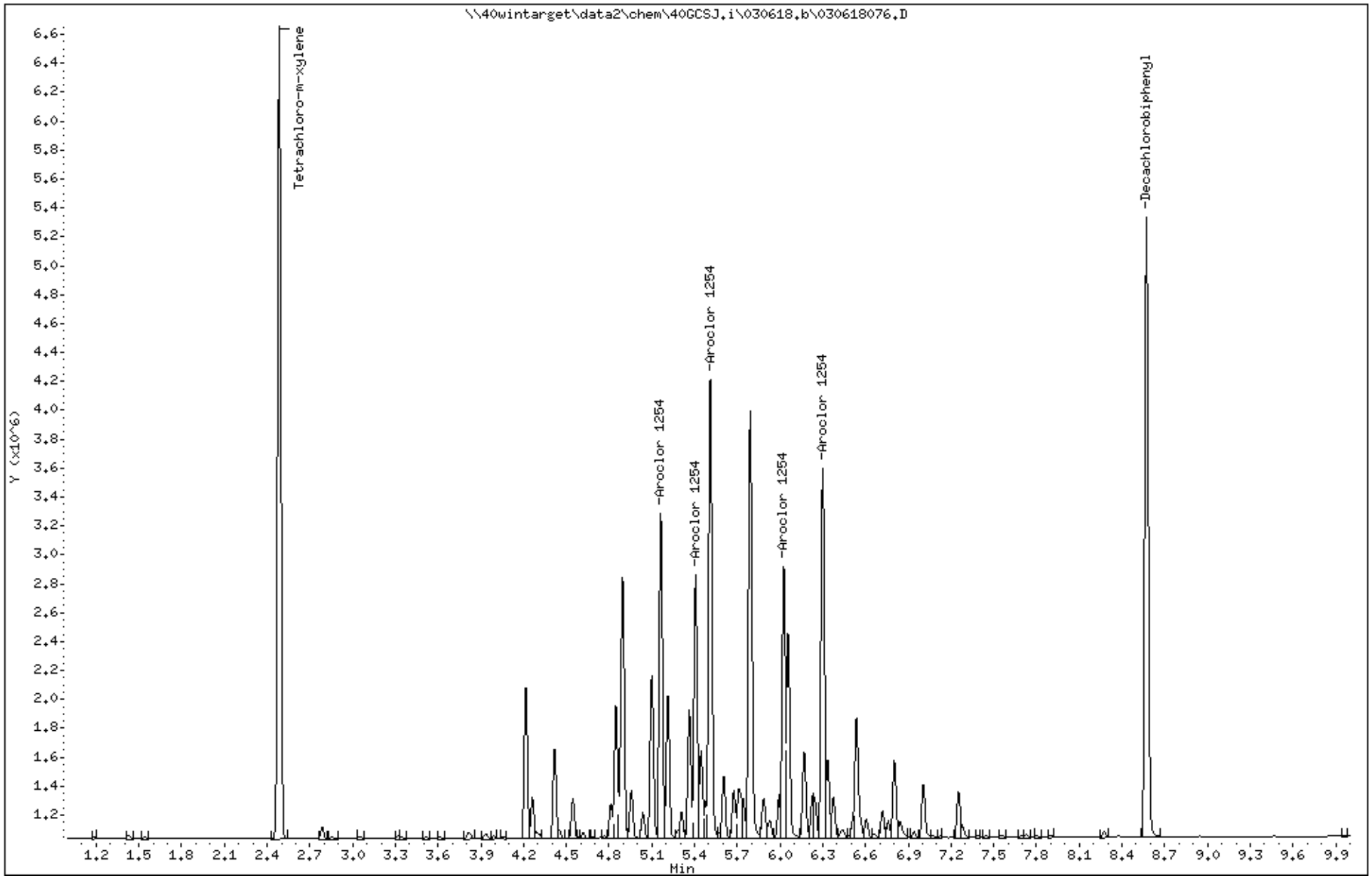
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

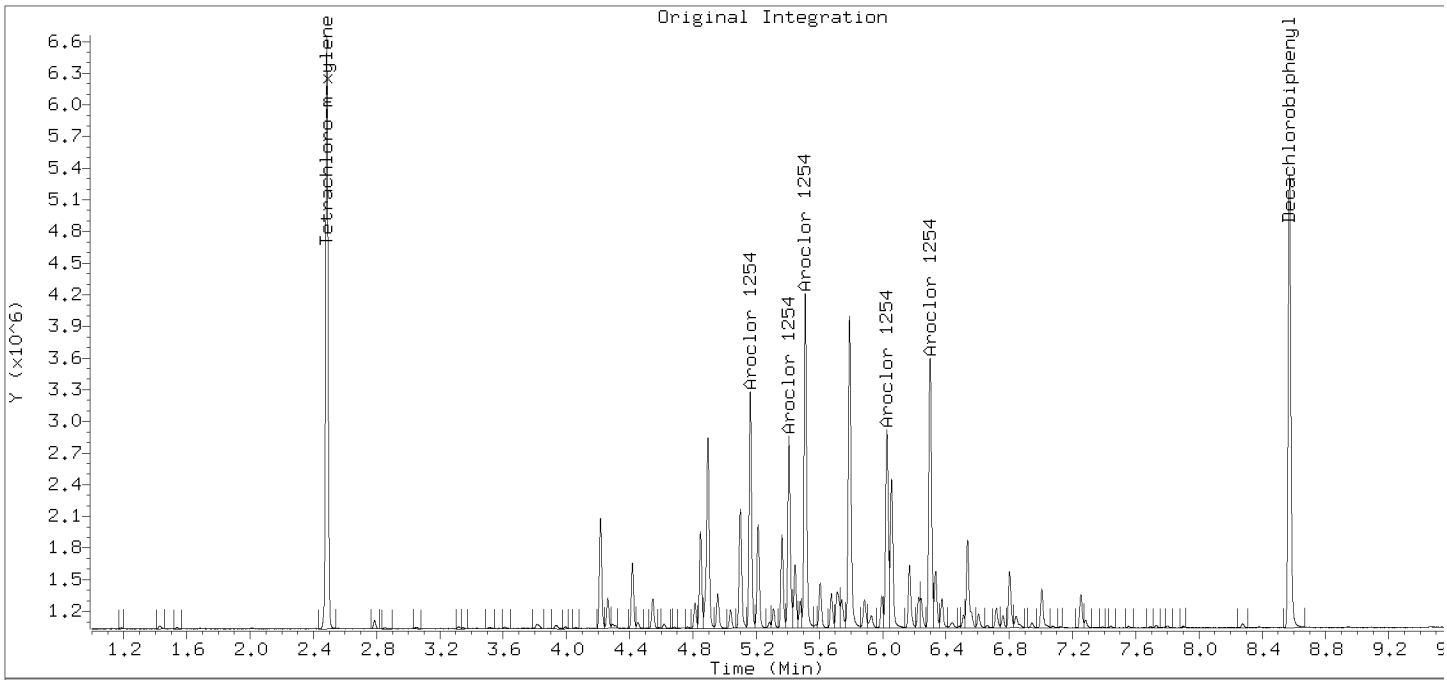
Operator: BLM

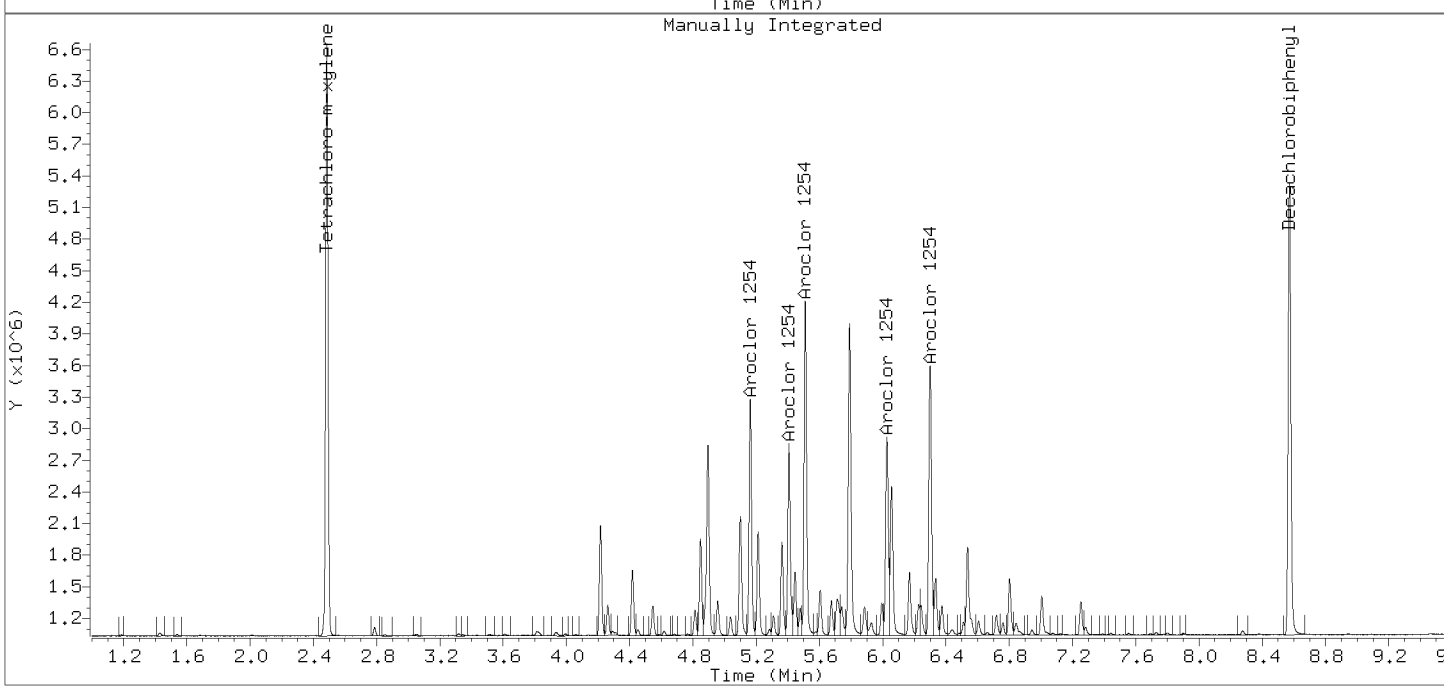
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618076.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 06-MAR-2018 21:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Aroclor 1254	2444116	2454298	BA
Tetrachloro-m-xylene	5956440	5956440	
Decachlorobiphenyl	5194608	5194608	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	21221	17184	0.810	0.02		
1.431	40838	31713	0.777	0.04		
1.536	17776	15618	0.879	0.02		
1.804	13311	13960	1.049	0.01		
2.011	10268	7617	0.742	0.01		
2.405	140776	109473	0.778	0.16		
2.484	5932090	5726918	0.965	7.56	$ 2 Tetrachloro-m-xylene	
2.687	201068	164753	0.819	0.24		
2.788	295756	279701	0.946	0.35		
2.851	1113041	1029534	0.925	1.33		
3.055	169967	158668	0.934	0.20		
3.277	24278	19456	0.801	0.02		
3.317	1575915	1463198	0.928	1.88	5 Aroclor 1016	BA
3.344	915512	854579	0.933	1.09		
3.435	250094	229311	0.917	0.29		
3.513	1583523	1159648	0.732	1.89	5 Aroclor 1016	BA
3.610	21286	19905	0.935	0.02		
3.645	25464	17411	0.684	0.03		
3.696	44251	42008	0.949	0.05		
3.732	398780	398305	0.999	0.47		
3.756	256467	255771	0.997	0.30		
3.827	4508685	2620847	0.581	5.39	5 Aroclor 1016	BA
3.929	1926630	1599827	0.830	2.30	5 Aroclor 1016	BA
3.994	1286237	1237455	0.962	1.54	5 Aroclor 1016	BA
4.058	377180	342508	0.908	0.45		
4.136	150296	140468	0.935	0.17		
4.214	1102455	1039229	0.943	1.32		
4.261	1029907	980757	0.952	1.23		
4.293	425562	439845	1.034	0.50		
4.310	540061	519083	0.961	0.64		
4.370	26189	19343	0.739	0.03		
4.417	1387264	1301927	0.938	1.66		
4.453	895338	753232	0.841	1.07		
4.545	1576424	1430306	0.907	1.88		
4.591	17433	23996	1.376	0.02		
4.618	301465	279443	0.927	0.36		
4.680	19837	14137	0.713	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	37013	29354	0.793	0.04	
4.768	30417	27693	0.910	0.03	
4.814	156037	149062	0.955	0.18	
4.848	239300	233617	0.976	0.28	
4.895	1221737	985481	0.807	1.46	
4.958	58840	41257	0.701	0.07	
5.037	85057	75952	0.893	0.10	
5.100	246503	215312	0.873	0.29	
5.163	1183240	1075758	0.909	1.41	
5.212	41947	29637	0.707	0.05	
5.310	13373	10637	0.795	0.01	
5.363	57749	52832	0.915	0.06	
5.407	268815	254856	0.948	0.32	
5.446	13974	15175	1.086	0.01	
5.478	527498	492186	0.933	0.63	
5.510	745390	669137	0.898	0.89	
5.576	10212	10260	1.005	0.01	
5.603	17026	12475	0.733	0.02	
5.676	1384577	1280481	0.925	1.65	
5.710	943302	526346	0.558	1.12	
5.786	3233298	2804467	0.867	3.87	
5.882	208249	189092	0.908	0.24	
5.930	96479	76874	0.797	0.11	
5.993	545401	501421	0.919	0.65	
6.029	1181491	1139915	0.965	1.41	
6.055	3616031	3141367	0.869	4.33	
6.169	2379439	1526966	0.642	2.84	
6.256	501646	311664	0.621	0.60	
6.301	4216761	3413991	0.810	5.04	8 Aroclor 1260
6.334	589361	516529	0.876	0.70	
6.373	133856	105313	0.787	0.16	
6.433	474923	416467	0.877	0.56	
6.486	96367	124001	1.287	0.11	
6.510	2278472	2020249	0.887	2.72	
6.535	319186	362341	1.135	0.38	
6.561	1371229	1239953	0.904	1.64	
6.606	126514	100966	0.798	0.15	
6.661	435030	401966	0.924	0.52	
6.718	2436948	2139504	0.878	2.91	
6.760	1379678	1221074	0.885	1.65	
6.803	1012423	886702	0.876	1.21	
6.839	204549	179535	0.878	0.24	
6.867	101951	86190	0.845	0.12	
6.915	150840	138650	0.919	0.18	
6.944	471585	431542	0.915	0.56	
7.006	5169251	4474270	0.866	6.18	8 Aroclor 1260
7.035	349824	352477	1.008	0.41	
7.076	161438	129444	0.802	0.19	
7.122	226639	191125	0.843	0.27	
7.252	2431978	2174432	0.894	2.91	8 Aroclor 1260
7.282	689708	552481	0.801	0.82	
7.391	1295375	1038752	0.802	1.55	
7.443	1492830	1281759	0.859	1.78	8 Aroclor 1260
7.554	105447	79274	0.752	0.12	
7.692	611618	562958	0.920	0.73	
7.728	153573	121839	0.793	0.18	
7.801	84844	63857	0.753	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.902	1408195	1200861	0.853	1.68	8 Aroclor 1260
7.965	99066	72839	0.735	0.11	
8.277	469900	412226	0.877	0.56	
8.379	12566	10774	0.857	0.01	
8.571	5248206	4347540	0.828	6.28	$ 12 Decachlorobiphenyl
8.945	16720	11361	0.679	0.02	
9.471	16512	10298	0.624	0.01	
	83510046	71509948		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5932090	0.05000	0.048			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1575914	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1583522	0.50000	0.51	0.00- 20.00	100.48	BA
3.826	3.826	0.000	4508685	0.50000	0.51	0.00- 20.00	286.10	BA
3.928	3.929	-0.001	1926630	0.50000	0.51	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1286237	0.50000	0.49	0.00- 20.00	81.62	BA
Average of Peak Amounts =					0.50600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4216761	0.50000	0.48	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5169251	0.50000	0.52	0.00- 20.00	122.59	CO
7.251	7.251	0.000	2431977	0.50000	0.51	0.00- 20.00	57.67	CO
7.442	7.443	-0.001	1492830	0.50000	0.51	0.00- 20.00	35.40	CO
7.901	7.901	0.000	1408195	0.50000	0.53	0.00- 20.00	33.40	CO
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5248206	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

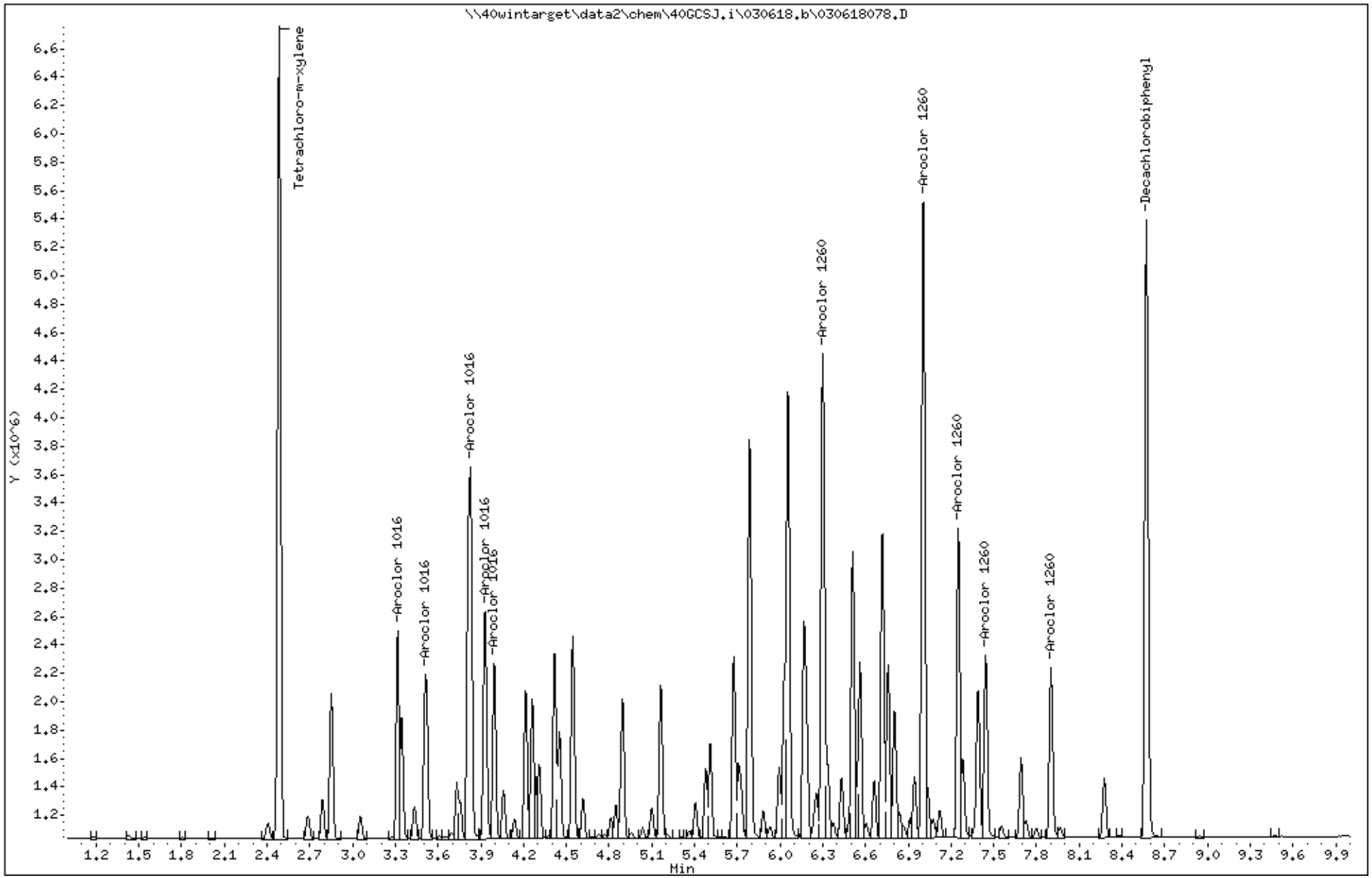
QC Flag Legend

Review Codes Legend

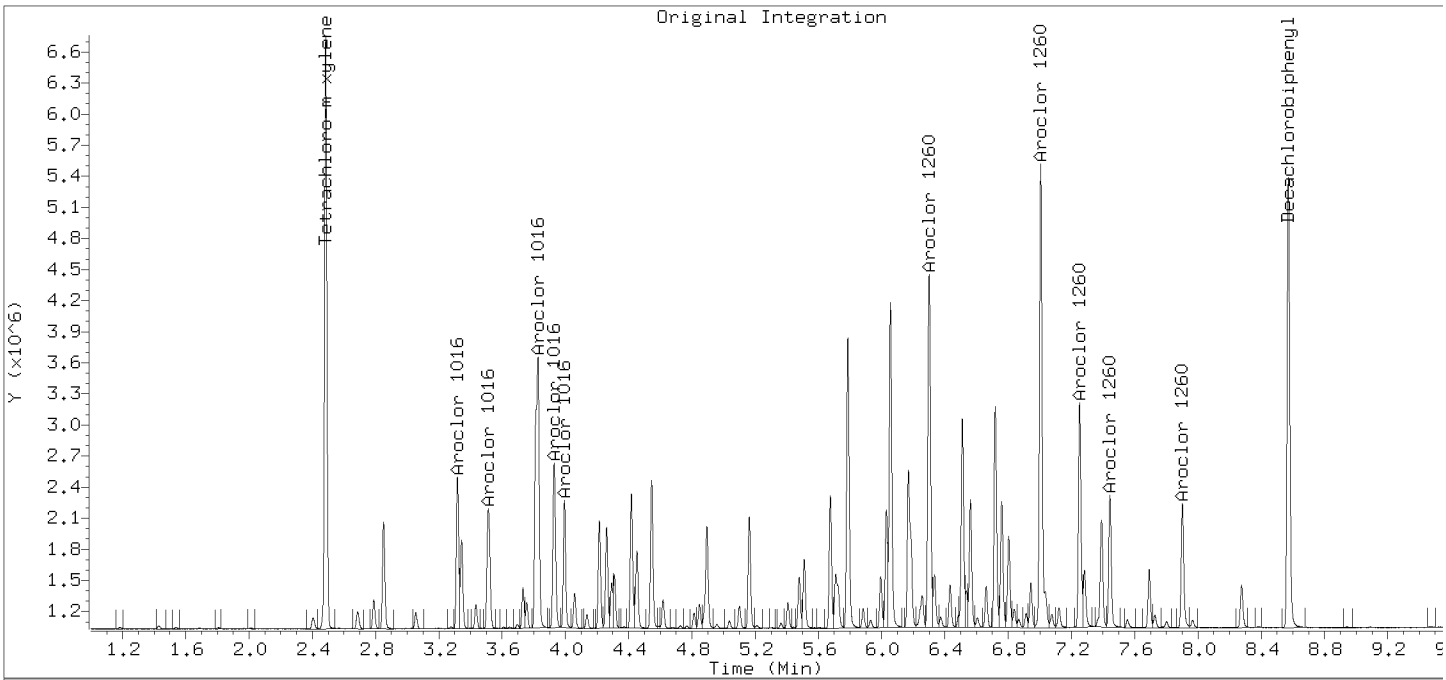
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

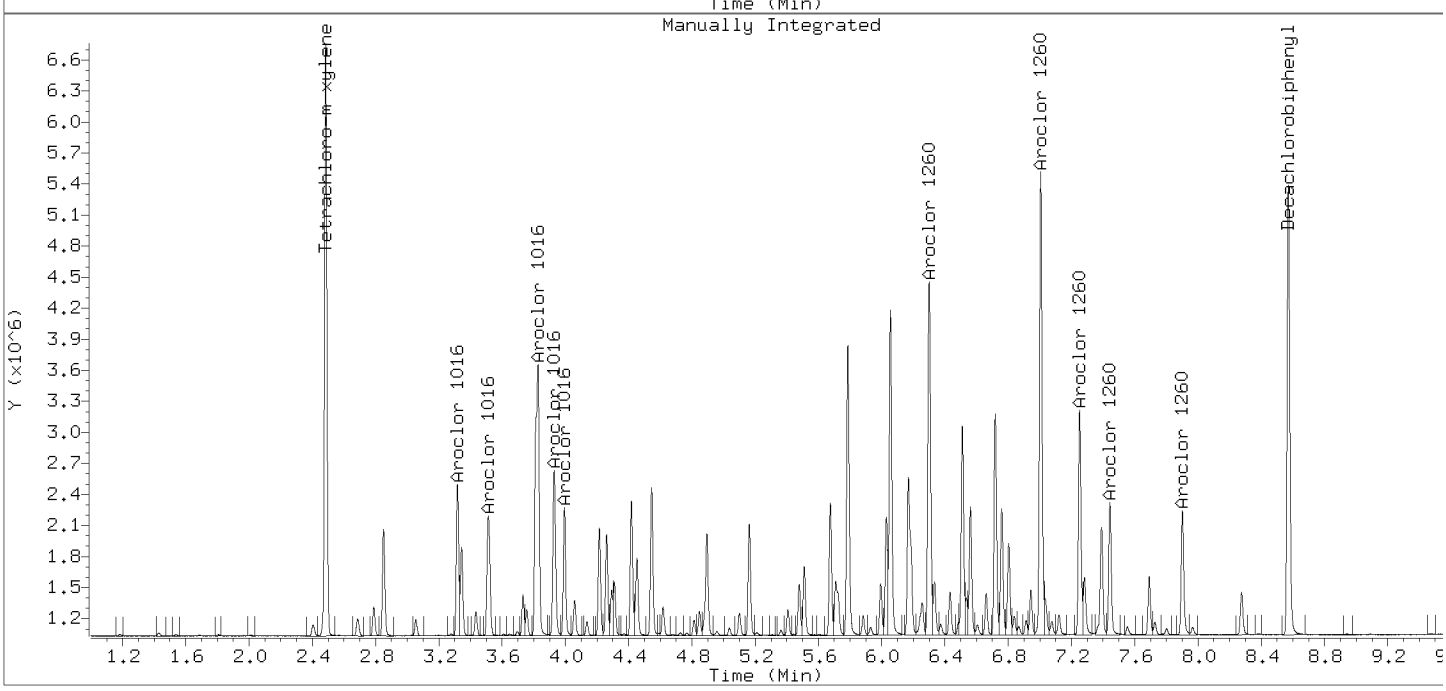
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618078.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Tetrachloro-m-xylene	5932090	5932090	
Decachlorobiphenyl	5248206	5248206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 22-MAR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	44061	37975	0.862	0.08		
1.428	37165	31958	0.860	0.07		
1.537	17308	14472	0.836	0.03		
1.688	23243	21642	0.931	0.04		
2.009	33623	26736	0.795	0.06		
2.484	5924243	5671233	0.957	11.93	$ 2 Tetrachloro-m-xylene	
2.786	81458	81310	0.998	0.15		
2.850	22992	18379	0.799	0.04		
3.030	20710	18787	0.907	0.04		
3.052	25346	17930	0.707	0.04		
3.319	30469	29505	0.968	0.05		
3.344	15811	16600	1.050	0.03		
3.443	10940	7629	0.697	0.02		
3.516	30551	21468	0.703	0.05		
3.610	19164	17226	0.899	0.03		
3.730	10149	10780	1.062	0.01		
3.756	9683	9879	1.020	0.01		
3.816	71909	47675	0.663	0.13		
3.935	59272	41406	0.699	0.11		
3.993	40592	33715	0.831	0.07		
4.054	33386	27597	0.827	0.06		
4.215	1195063	1135938	0.951	2.31		
4.261	295197	307605	1.042	0.57		
4.294	18860	25473	1.351	0.03		
4.417	737957	721268	0.977	1.42		
4.454	79323	67722	0.854	0.15		
4.546	335377	318053	0.948	0.64		
4.589	12787	13907	1.088	0.02		
4.618	62367	53601	0.859	0.12		
4.682	21525	16766	0.779	0.04		
4.737	17562	11421	0.650	0.03		
4.769	24924	21393	0.858	0.04		
4.813	281077	267947	0.953	0.54		
4.848	1069390	1023737	0.957	2.06		
4.894	2393719	1894157	0.791	4.62		
4.957	391592	346141	0.884	0.75		
5.037	240818	213986	0.889	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.099	1403602	1186833	0.846	2.71	
5.162	2548372	2307037	0.905	4.92	7 Aroclor 1254
5.211	1162172	1077228	0.927	2.24	
5.283	63780	60100	0.942	0.12	
5.310	222358	192070	0.864	0.42	
5.363	1006065	927339	0.922	1.94	
5.406	2095620	1849477	0.883	4.05	7 Aroclor 1254
5.445	710932	639019	0.899	1.37	
5.478	273029	253216	0.927	0.52	
5.510	3748935	3359445	0.896	7.24	7 Aroclor 1254
5.574	32397	32959	1.017	0.06	
5.604	531039	469945	0.885	1.02	
5.673	349027	312919	0.897	0.67	
5.712	538613	346556	0.643	1.04	
5.741	328441	263483	0.802	0.63	
5.790	3743314	2893767	0.773	7.23	
5.885	343869	265290	0.771	0.66	
5.927	184168	110920	0.602	0.35	
5.993	313212	299502	0.956	0.60	
6.026	2342678	1897762	0.810	4.52	7 Aroclor 1254
6.055	1729015	1408669	0.815	3.34	
6.169	694269	565397	0.814	1.34	
6.226	283496	282992	0.998	0.54	
6.242	309993	275692	0.889	0.59	
6.298	3127212	2582856	0.826	6.04	7 Aroclor 1254
6.332	561342	492696	0.878	1.08	
6.374	325701	274968	0.844	0.62	
6.440	99350	52253	0.526	0.19	
6.484	17663	19447	1.101	0.03	
6.509	124156	123356	0.994	0.24	
6.536	1055009	824862	0.782	2.03	
6.605	154789	124893	0.807	0.29	
6.661	32006	27387	0.856	0.06	
6.717	215623	182457	0.846	0.41	
6.758	129192	111512	0.863	0.24	
6.800	575443	495062	0.860	1.11	
6.841	167380	105239	0.629	0.32	
6.940	56759	49904	0.879	0.10	
7.004	429554	343643	0.800	0.83	
7.074	23268	17879	0.768	0.04	
7.130	37784	19541	0.517	0.07	
7.251	330520	286731	0.868	0.63	
7.280	72511	60596	0.836	0.14	
7.391	15940	14539	0.912	0.03	
7.443	27682	20901	0.755	0.05	
7.552	20142	15618	0.775	0.03	
7.689	15341	15102	0.984	0.02	
7.728	29366	24007	0.818	0.05	
7.774	16497	14480	0.878	0.03	
7.800	18212	17370	0.954	0.03	
7.901	18817	18696	0.994	0.03	
8.274	52734	41845	0.794	0.10	
8.381	22619	15712	0.695	0.04	
8.571	5200199	4431227	0.852	10.05	$ 12 Decachlorobiphenyl
8.939	21666	17038	0.786	0.04	
9.467	19976	16643	0.833	0.03	
9.964	17245	13005	0.754	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	51729707	44792099		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 22-MAR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5924242	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2548372	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2095620	0.50000	0.49	0.00- 20.00	82.23	BA
5.509	5.510	-0.001	3748934	0.50000	0.48	0.00- 20.00	147.11	BA
6.025	6.027	-0.002	2342678	0.50000	0.48	0.00- 20.00	91.93	BA
6.298	6.299	-0.001	3127211	0.50000	0.48	0.00- 20.00	122.71	BA
Average of Peak Amounts =					0.48400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5200199	0.05000	0.047			

QC Flag Legend

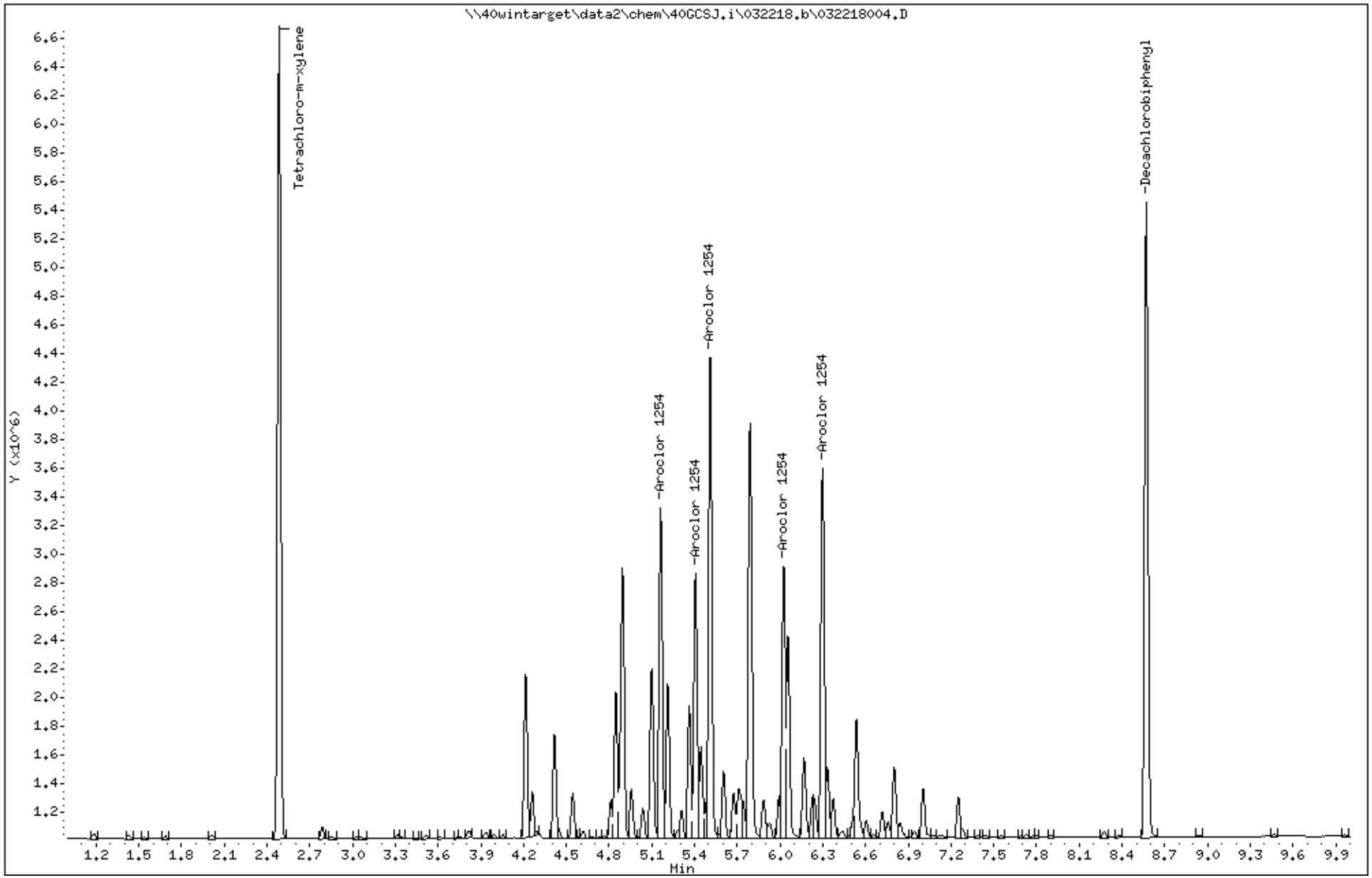
M - Compound response manually integrated.

Review Codes Legend

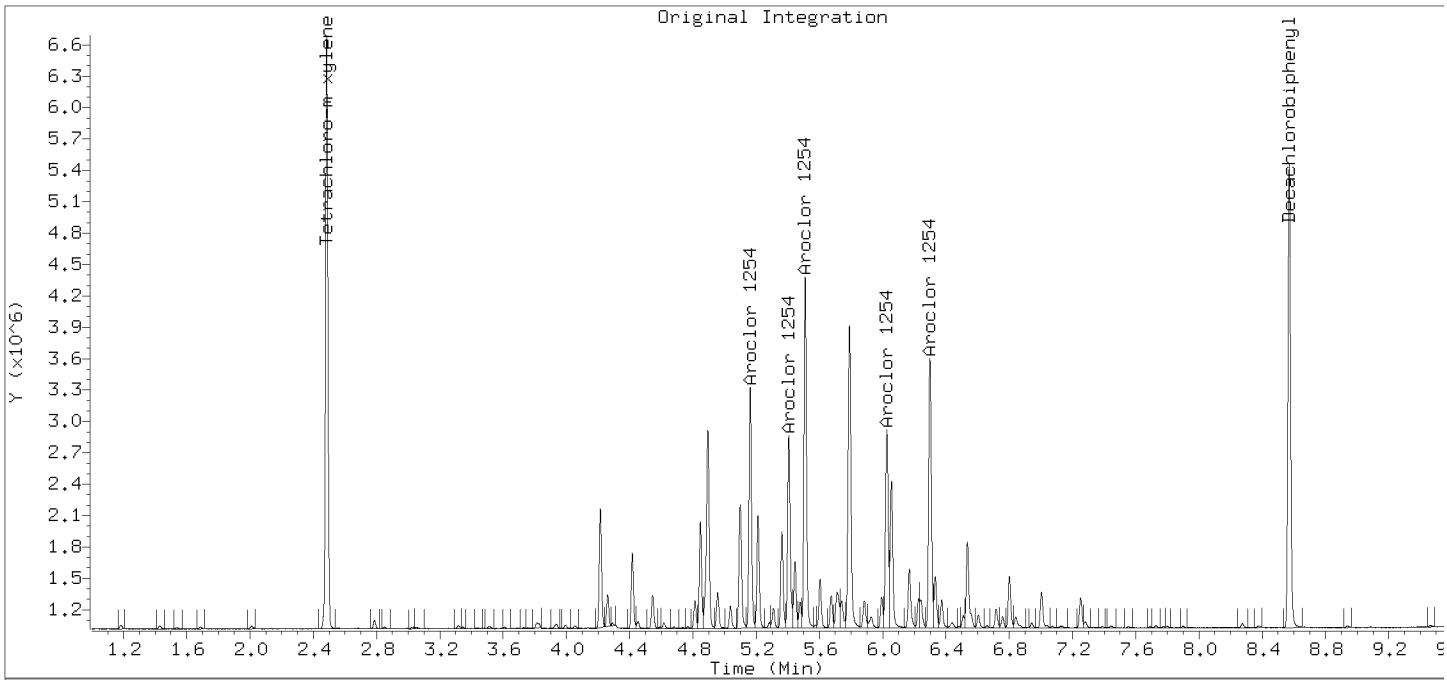
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

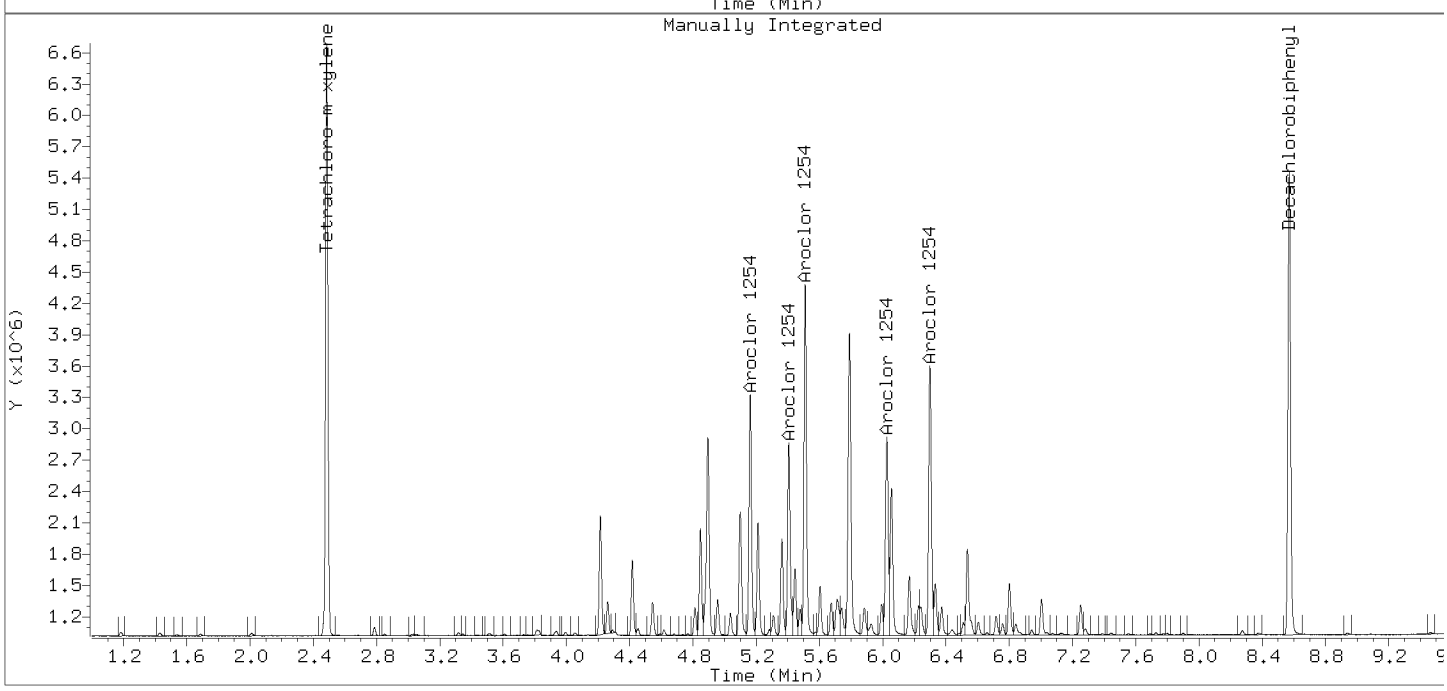
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218004.D
Date : 22-MAR-2018 13:10
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218004.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 22-MAR-2018 13:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2537177	2548372	BA
Aroclor 1254	2537177	2548372	BA
Aroclor 1254	2537177	2548372	BA
Aroclor 1254	2537177	2548372	BA
Aroclor 1254	2537177	2548372	BA
Tetrachloro-m-xylene	5924242	5924242	
Decachlorobiphenyl	5200199	5200199	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 22-MAR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	32786	24152	0.737	0.03		
1.429	38720	32863	0.849	0.04		
1.536	17191	14743	0.858	0.01		
1.686	25662	24653	0.961	0.02		
1.806	22159	17403	0.785	0.02		
2.010	22730	14834	0.653	0.02		
2.197	10824	8971	0.829	0.01		
2.406	142510	110265	0.774	0.16		
2.484	6247114	5956002	0.953	7.56	$ 2 Tetrachloro-m-xylene	
2.686	212076	172149	0.812	0.24		
2.788	317565	296741	0.934	0.36		
2.850	1168462	1074396	0.919	1.32		
3.055	175844	157470	0.896	0.19		
3.275	32376	22453	0.694	0.03		
3.317	1584967	1487346	0.938	1.79	5 Aroclor 1016	BA
3.344	905803	856616	0.946	1.02		
3.434	259533	231482	0.892	0.29		
3.513	1587848	1145630	0.721	1.80	5 Aroclor 1016	BA
3.610	27072	21414	0.791	0.03		
3.650	31967	17991	0.563	0.03		
3.696	45728	44862	0.981	0.05		
3.732	412275	404583	0.981	0.46		
3.755	271149	257442	0.949	0.30		
3.826	4594006	2694579	0.587	5.20	5 Aroclor 1016	BA
3.929	1959283	1632849	0.833	2.22	5 Aroclor 1016	BA
3.994	1312742	1256811	0.957	1.48	5 Aroclor 1016	BA
4.058	376468	335303	0.891	0.42		
4.136	150081	132331	0.882	0.17		
4.214	1148825	1067216	0.929	1.30		
4.260	1020261	986344	0.967	1.15		
4.292	433633	441974	1.019	0.49		
4.310	521303	498202	0.956	0.59		
4.371	38651	28410	0.735	0.04		
4.417	1426637	1312115	0.920	1.61		
4.451	1045496	813148	0.778	1.18		
4.545	1796521	1661385	0.925	2.03		
4.590	21833	22659	1.038	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	404051	379063	0.938	0.45	
4.679	25787	21686	0.841	0.02	
4.726	67270	56012	0.833	0.07	
4.767	59548	55020	0.924	0.06	
4.812	337624	322789	0.956	0.38	
4.847	516934	497454	0.962	0.58	
4.893	1635015	1208966	0.739	1.85	
4.956	106902	83620	0.782	0.12	
5.036	95325	87301	0.916	0.10	
5.100	346699	287201	0.828	0.39	
5.162	1355312	1265951	0.934	1.53	
5.212	65909	50098	0.760	0.07	
5.308	19877	14682	0.739	0.02	
5.362	94316	84933	0.901	0.10	
5.406	373101	340544	0.913	0.42	
5.447	15071	16352	1.085	0.01	
5.477	532480	523409	0.983	0.60	
5.509	945812	854654	0.904	1.07	
5.603	24242	17195	0.709	0.02	
5.674	1375671	1267109	0.921	1.56	
5.709	988543	556587	0.563	1.12	
5.785	3392608	2978726	0.878	3.84	
5.882	231400	204999	0.886	0.26	
5.929	112186	88990	0.793	0.12	
5.993	578712	559597	0.967	0.65	
6.029	1317243	1265331	0.961	1.49	
6.055	3760667	3325188	0.884	4.26	
6.168	2454308	1583326	0.645	2.78	
6.255	549442	316493	0.576	0.62	
6.298	4638376	3808978	0.821	5.26	8 Aroclor 1260
6.332	638911	597090	0.935	0.72	
6.373	153243	129779	0.847	0.17	
6.431	470517	407708	0.867	0.53	
6.485	102065	127283	1.247	0.11	
6.508	2249152	2046738	0.910	2.55	
6.534	424894	461218	1.085	0.48	
6.560	1387348	1245844	0.898	1.57	
6.603	149781	123804	0.827	0.16	
6.660	435772	408745	0.938	0.49	
6.717	2403368	2161906	0.900	2.72	
6.758	1347339	1208740	0.897	1.52	
6.801	1129770	1002826	0.888	1.28	
6.837	198118	172340	0.870	0.22	
6.865	99770	90396	0.906	0.11	
6.912	150064	143187	0.954	0.17	
6.941	481382	447255	0.929	0.54	
7.003	5288203	4735115	0.895	5.99	8 Aroclor 1260
7.034	326528	319913	0.980	0.37	
7.073	152538	129666	0.850	0.17	
7.120	226652	186840	0.824	0.25	
7.250	2574894	2345628	0.911	2.92	8 Aroclor 1260
7.280	691681	601275	0.869	0.78	
7.388	1260457	1046993	0.831	1.42	
7.441	1520335	1340762	0.882	1.72	8 Aroclor 1260
7.550	116453	92114	0.791	0.13	
7.689	614487	580738	0.945	0.69	
7.725	87780	74899	0.853	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.799	76198	58165	0.763	0.08	
7.899	1385092	1223092	0.883	1.57	8 Aroclor 1260
7.965	92974	76543	0.823	0.10	
8.273	352730	314521	0.892	0.40	
8.375	15746	12540	0.796	0.01	
8.570	5653160	4829182	0.854	6.41	$ 12 Decachlorobiphenyl
8.941	18844	12352	0.655	0.02	
9.461	21785	12346	0.567	0.02	
9.962	20881	13182	0.631	0.02	
	88177443	76180766		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 22-MAR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6247113	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1584967	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1587847	0.50000	0.51	0.00- 20.00	100.18	BA
3.825	3.826	-0.001	4594005	0.50000	0.52	0.00- 20.00	289.85	BA
3.929	3.929	0.000	1959283	0.50000	0.52	0.00- 20.00	123.62	BA
3.993	3.994	-0.001	1312741	0.50000	0.50	0.00- 20.00	82.82	BA
Average of Peak Amounts =					0.51200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4638376	0.50000	0.52	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5288202	0.50000	0.53	0.00- 20.00	114.01	BA
7.250	7.251	-0.001	2574894	0.50000	0.54	0.00- 20.00	55.51	BA
7.441	7.443	-0.002	1520335	0.50000	0.52	0.00- 20.00	32.78	BA
7.898	7.901	-0.003	1385091	0.50000	0.52	0.00- 20.00	29.86	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5653159	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218016.D

Date : 22-MAR-2018 16:20

Client ID: 1660-CCV

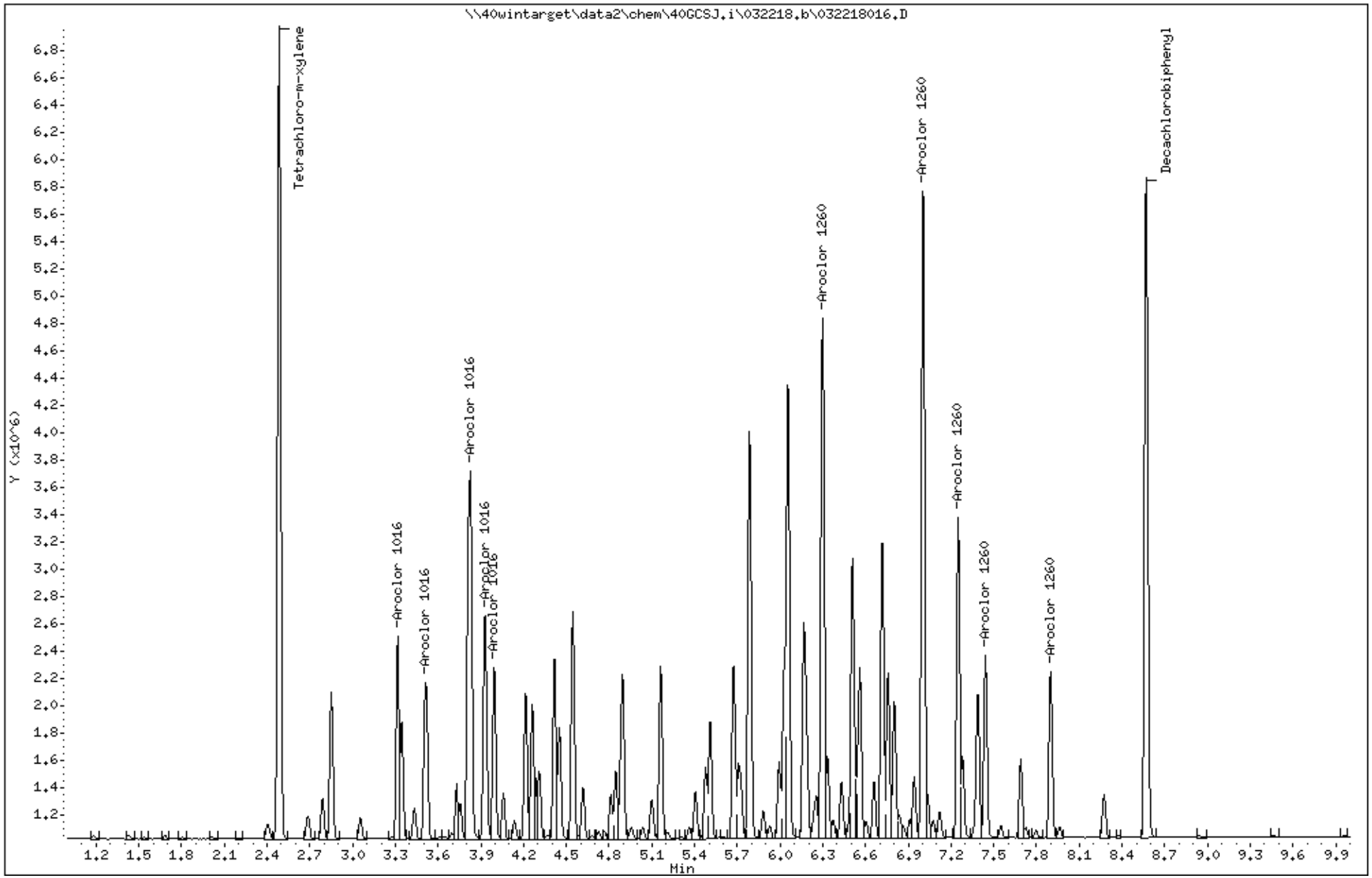
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

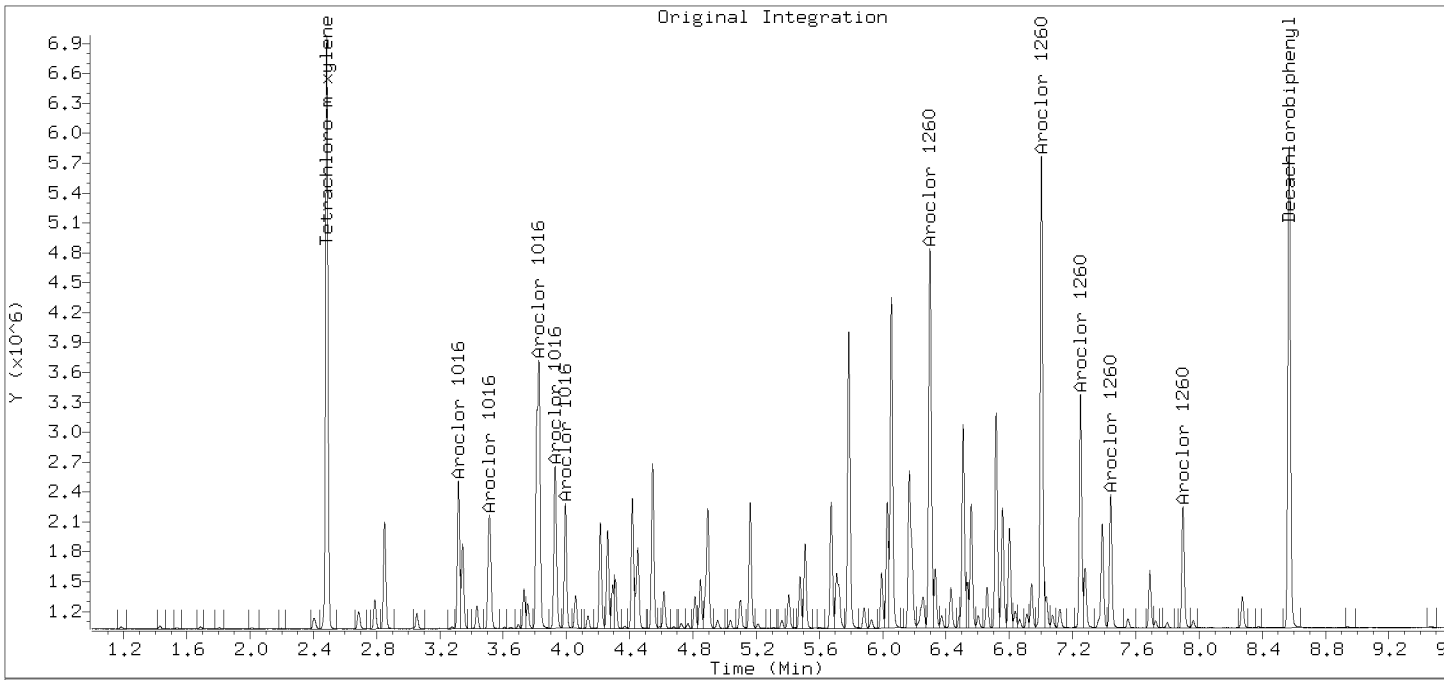
Operator: BLM

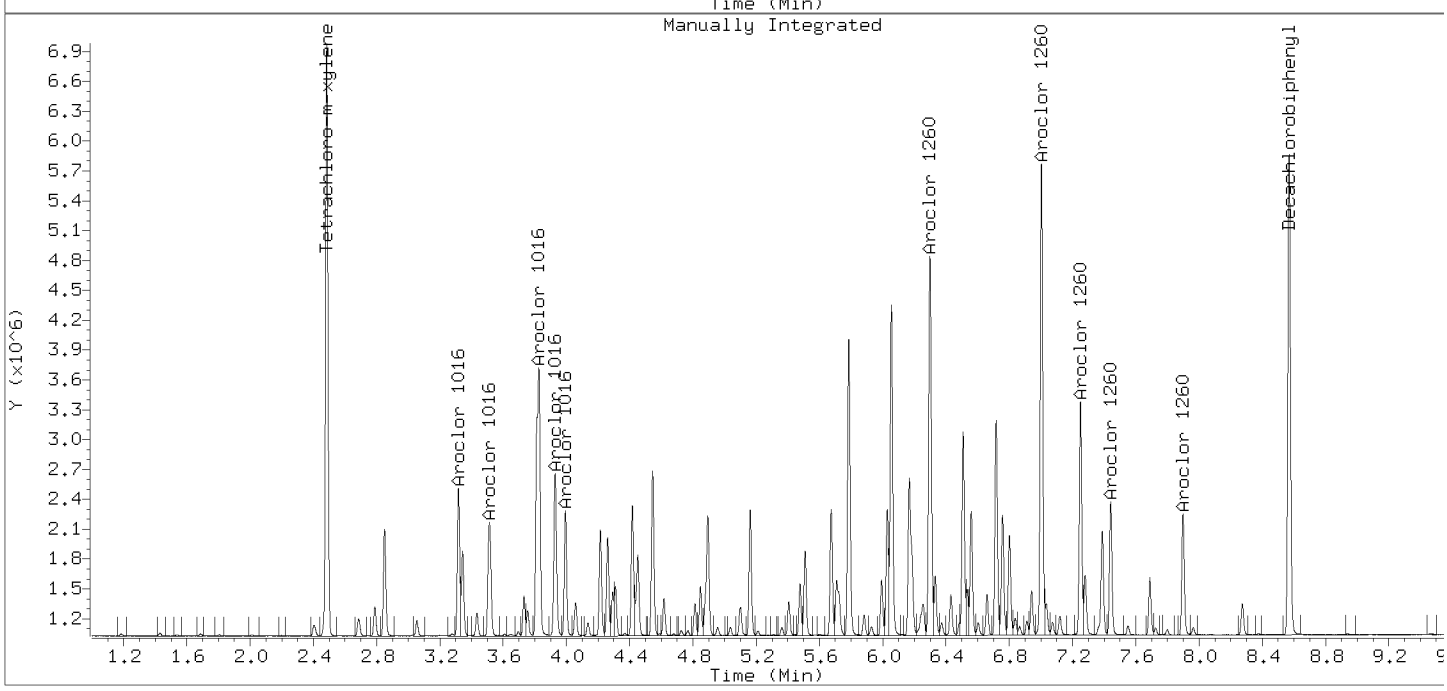
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218016.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 22-MAR-2018 16:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1571071	1584967	BA
Aroclor 1016	1571071	1584967	BA
Aroclor 1016	1571071	1584967	BA
Aroclor 1016	1571071	1584967	BA
Aroclor 1016	1571071	1584967	BA
Aroclor 1260	4623352	4638376	BA
Aroclor 1260	4623352	4638376	BA
Aroclor 1260	4623352	4638376	BA
Aroclor 1260	4623352	4638376	BA
Aroclor 1260	4623352	4638376	BA
Tetrachloro-m-xylene	6247113	6247113	
Decachlorobiphenyl	5653159	5653159	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218028.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 22-MAR-2018 19:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 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: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.182	39845	30513	0.766	0.22			
1.427	43754	35279	0.806	0.24			
1.538	21003	14185	0.675	0.11			
1.685	28203	23570	0.836	0.15			
1.804	515851	460241	0.892	2.87		1 Aroclor 1221	BA
2.007	31647	19202	0.607	0.17			
2.162	13317	10934	0.821	0.07			
2.198	170358	145950	0.857	0.95			
2.407	269444	199230	0.739	1.50		1 Aroclor 1221	BA
2.485	6060008	5862151	0.967	34.11	$	2 Tetrachloro-m-xylene	BA
2.688	713512	593455	0.832	3.98		1 Aroclor 1221	BA
2.789	554587	531156	0.958	3.09		1 Aroclor 1221	BA
2.851	1698196	1504981	0.886	9.47		1 Aroclor 1221	BA
3.026	16474	14504	0.880	0.09			
3.053	40046	30784	0.769	0.22			
3.279	127054	95982	0.755	0.70			
3.325	412602	239202	0.580	2.30			
3.435	36902	31330	0.849	0.20			
3.513	147375	109107	0.740	0.82			
3.608	19605	19213	0.980	0.10			
3.694	10079	10737	1.065	0.05			
3.732	46318	46444	1.003	0.25			
3.757	56124	39141	0.697	0.31			
3.825	359608	213247	0.593	2.00			
3.927	159298	138086	0.867	0.88			
3.994	108902	100946	0.927	0.60			
4.053	30689	22080	0.719	0.17			
4.216	37773	34711	0.919	0.21			
4.260	28603	32161	1.124	0.15			
4.294	20061	15770	0.786	0.11			
4.419	45742	41793	0.914	0.25			
4.443	48061	30832	0.642	0.26			
4.546	53759	51613	0.960	0.30			
4.617	22148	13850	0.625	0.12			
4.812	22279	21940	0.985	0.12			
4.848	38049	36029	0.947	0.21			
4.878	58970	40955	0.694	0.32			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.036	40173	35572	0.885	0.22	
5.384	14118	14736	1.044	0.07	
5.699	12361	10299	0.833	0.06	
5.783	10596	8588	0.811	0.05	
6.191	27922	18194	0.652	0.15	
7.128	12421	9267	0.746	0.06	
7.726	25017	20700	0.827	0.13	
7.771	11570	11800	1.020	0.06	
7.799	20756	13703	0.660	0.11	
8.273	48916	43356	0.886	0.27	
8.376	19135	13962	0.730	0.10	
8.570	5516351	4751573	0.861	30.79	$ 12 Decachlorobiphenyl
9.085	11036	8171	0.740	0.06	
9.466	20650	12555	0.608	0.11	
9.959	17059	14177	0.831	0.09	
	17914326	15847957		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218028.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 22-MAR-2018 19:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 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: 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	6060007	0.05000	0.049		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.803	1.804	-0.001	515851	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	269444	0.50000	0.49	0.00- 20.00	52.23	BA
2.688	2.688	0.000	713511	0.50000	0.52	0.00- 20.00	138.32	BA
2.789	2.789	0.000	554586	0.50000	0.50	0.00- 20.00	107.51	BA
2.850	2.851	-0.001	1698195	0.50000	0.52	0.00- 20.00	329.20	BA
Average of Peak Amounts =					0.50600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5516351	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218028.D

Date : 22-MAR-2018 19:31

Client ID: 1221-CCV

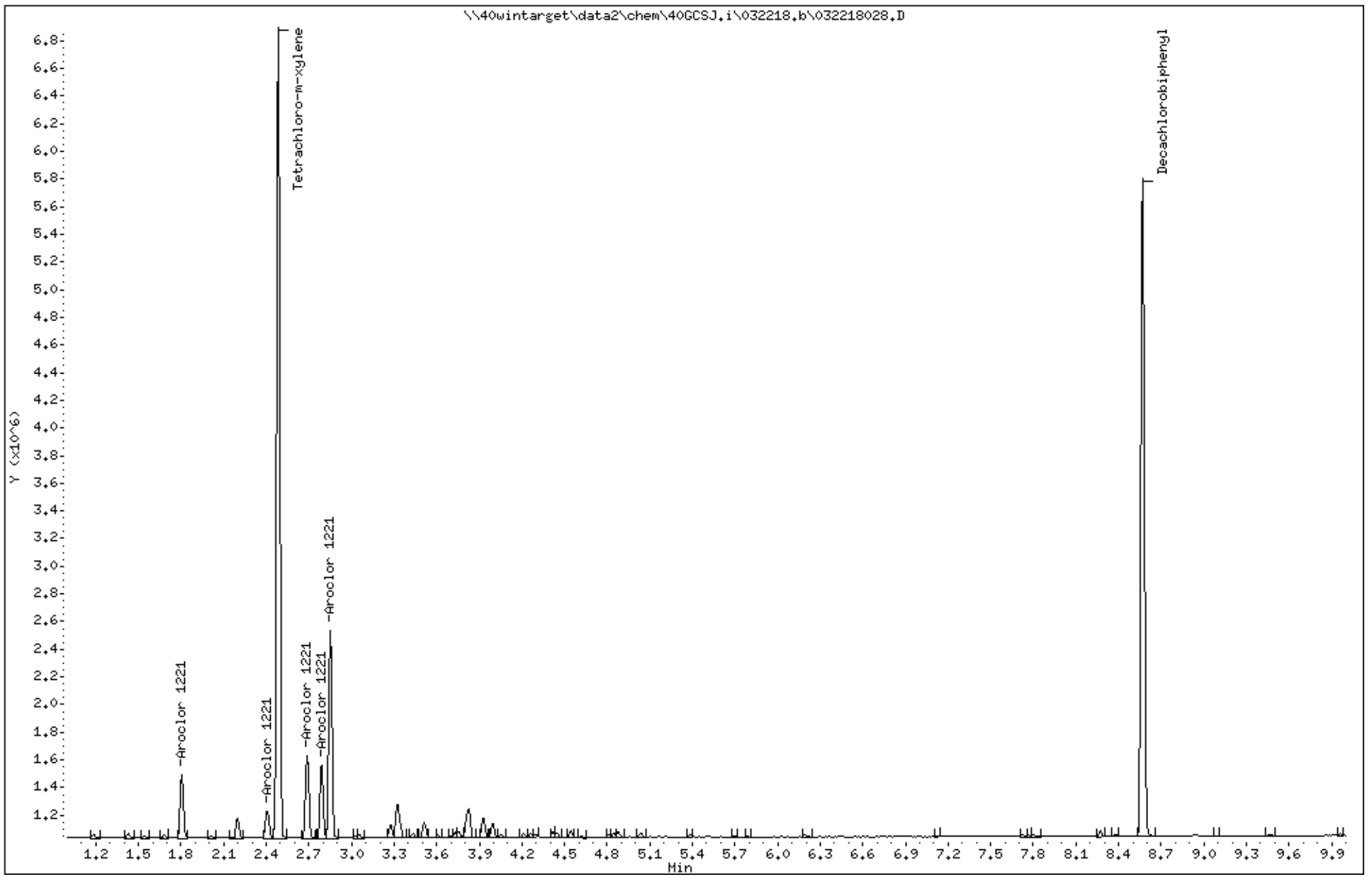
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

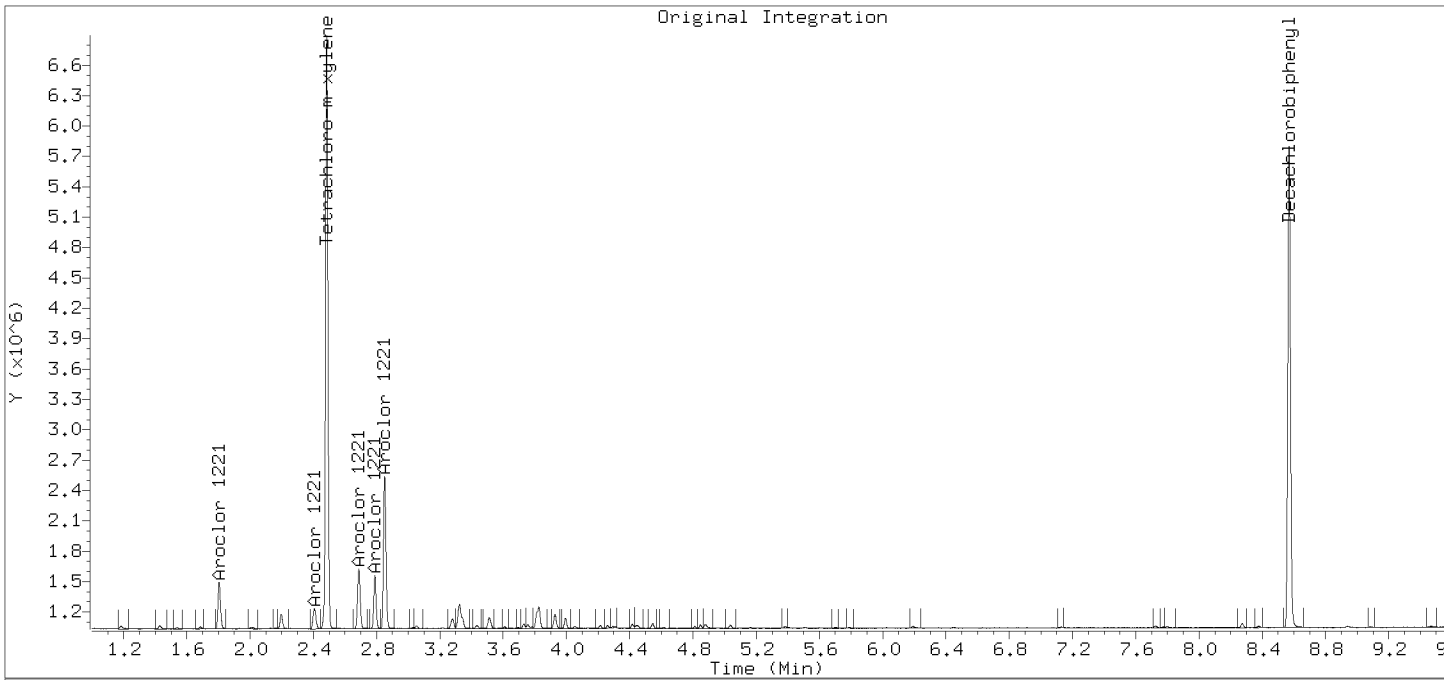
Operator: BLM

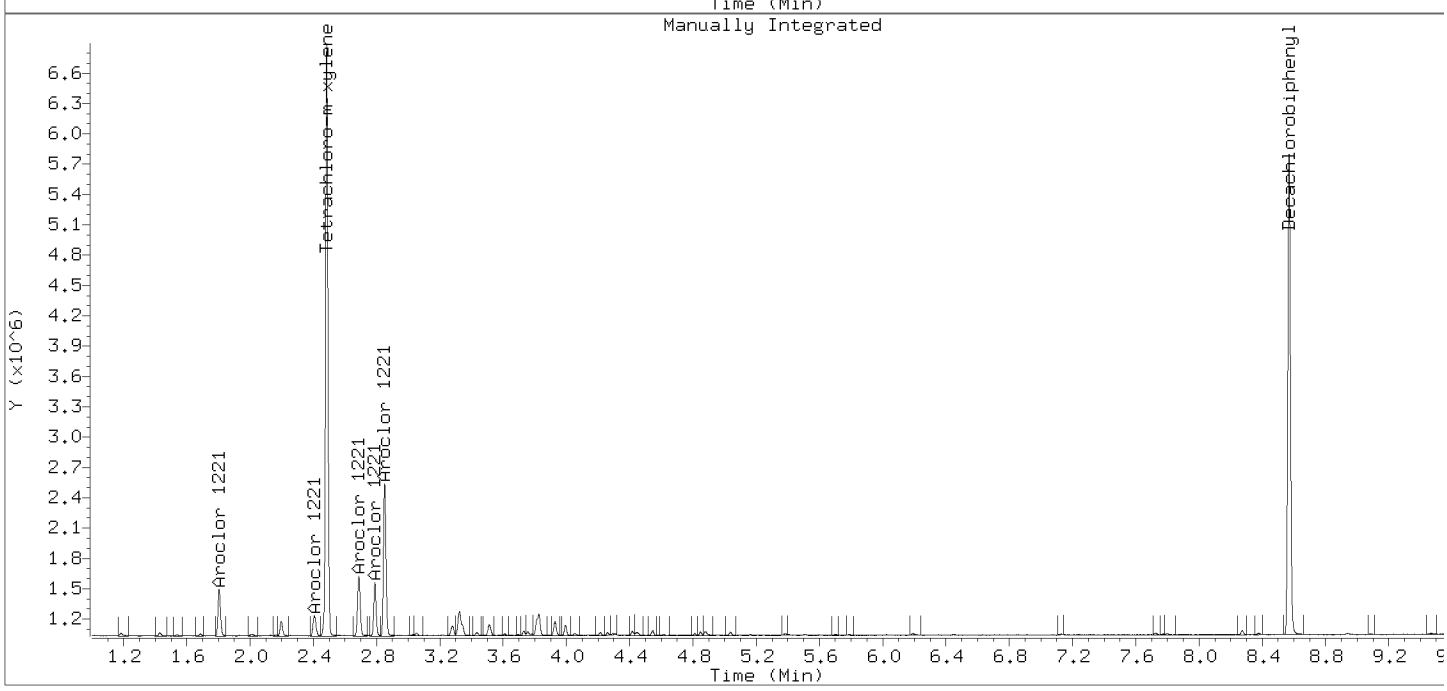
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218028.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 22-MAR-2018 19:31 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	508915	515851	BA
Aroclor 1221	508915	515851	BA
Aroclor 1221	508915	515851	BA
Aroclor 1221	508915	515851	BA
Aroclor 1221	508915	515851	BA
Tetrachloro-m-xylene	6047242	6060007	BA
Decachlorobiphenyl	5516351	5516351	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218034.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 22-MAR-2018 21:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	27825	22156	0.796	0.09		
1.430	36201	30836	0.852	0.12		
1.540	25216	16430	0.652	0.08		
1.687	27318	22850	0.836	0.09		
1.804	308325	272685	0.884	1.09		
2.009	15675	12945	0.826	0.05		
2.197	91274	82978	0.909	0.32		
2.406	201236	150733	0.749	0.71		
2.484	5997643	5746953	0.958	21.59	$ 2 Tetrachloro-m-xylene	
2.687	455492	381092	0.837	1.61		
2.789	420749	405583	0.964	1.48		
2.850	1362377	1241564	0.911	4.81	4 Aroclor 1232	BA
3.024	12565	13086	1.042	0.04		
3.054	88536	79635	0.899	0.31		
3.278	81291	59225	0.729	0.28		
3.317	792862	701555	0.885	2.80		
3.343	418150	390021	0.933	1.47		
3.434	121870	109508	0.899	0.43		
3.513	706642	519545	0.735	2.49	4 Aroclor 1232	BA
3.608	24242	20528	0.847	0.08		
3.696	27671	25109	0.907	0.09		
3.731	190397	190870	1.002	0.67		
3.755	139709	124843	0.894	0.49		
3.826	2058699	1210351	0.588	7.28	4 Aroclor 1232	BA
3.929	883664	759417	0.859	3.12	4 Aroclor 1232	BA
3.994	582895	578022	0.992	2.06	4 Aroclor 1232	BA
4.058	154159	135700	0.880	0.54		
4.136	65145	54602	0.838	0.23		
4.215	417066	393183	0.943	1.47		
4.260	405511	388590	0.958	1.43		
4.292	167671	176021	1.050	0.59		
4.310	208781	198903	0.953	0.73		
4.370	17835	15115	0.848	0.06		
4.416	560174	540538	0.965	1.98		
4.452	472920	322556	0.682	1.67		
4.545	724917	686870	0.948	2.56		
4.616	168502	156856	0.931	0.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.677	19126	12043	0.630	0.06	
4.726	39221	34709	0.885	0.13	
4.766	41843	36336	0.868	0.14	
4.812	342325	322013	0.941	1.21	
4.847	587707	577568	0.983	2.07	
4.878	755615	601449	0.796	2.67	
4.958	76577	62266	0.813	0.27	
5.036	637966	621393	0.974	2.25	
5.097	117210	87556	0.747	0.41	
5.162	134494	121234	0.901	0.47	
5.211	95589	88954	0.931	0.33	
5.309	21540	21165	0.983	0.07	
5.362	95908	79471	0.829	0.33	
5.406	156059	120898	0.775	0.55	
5.444	88553	79486	0.898	0.31	
5.508	247669	183341	0.740	0.87	
5.604	74442	62051	0.834	0.26	
5.671	13407	13932	1.039	0.04	
5.790	164882	139067	0.843	0.58	
5.887	23418	16237	0.693	0.08	
6.022	128206	117186	0.914	0.45	
6.054	27856	26488	0.951	0.09	
6.169	18443	12638	0.685	0.06	
6.299	40882	35818	0.876	0.14	
6.508	12254	12936	1.056	0.04	
6.716	16408	13988	0.852	0.05	
6.804	10930	10640	0.974	0.03	
7.003	32686	25630	0.784	0.11	
7.130	21046	12833	0.610	0.07	
7.247	19939	14167	0.711	0.07	
7.725	20515	20913	1.019	0.07	
7.796	13245	12832	0.969	0.04	
8.273	52059	40856	0.785	0.18	
8.372	16732	11719	0.700	0.05	
8.569	5526214	4676758	0.846	19.54	$ 12 Decachlorobiphenyl
8.940	21406	11606	0.542	0.07	
8.994	9991	6052	0.606	0.03	
9.083	12582	9476	0.753	0.04	
9.467	28000	18766	0.670	0.09	
9.961	53351	35022	0.656	0.18	
	28277503	24644947		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218034.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 22-MAR-2018 21:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5997642	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1362377	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	706642	0.50000	0.53	0.00- 20.00	51.87	BA
3.825	3.827	-0.002	2058699	0.50000	0.55	0.00- 20.00	151.11	BA
3.928	3.929	-0.001	883663	0.50000	0.55	0.00- 20.00	64.86	BA
3.993	3.995	-0.002	582895	0.50000	0.53	0.00- 20.00	42.79	BA
Average of Peak Amounts =					0.54000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5526214	0.05000	0.050			

QC Flag Legend

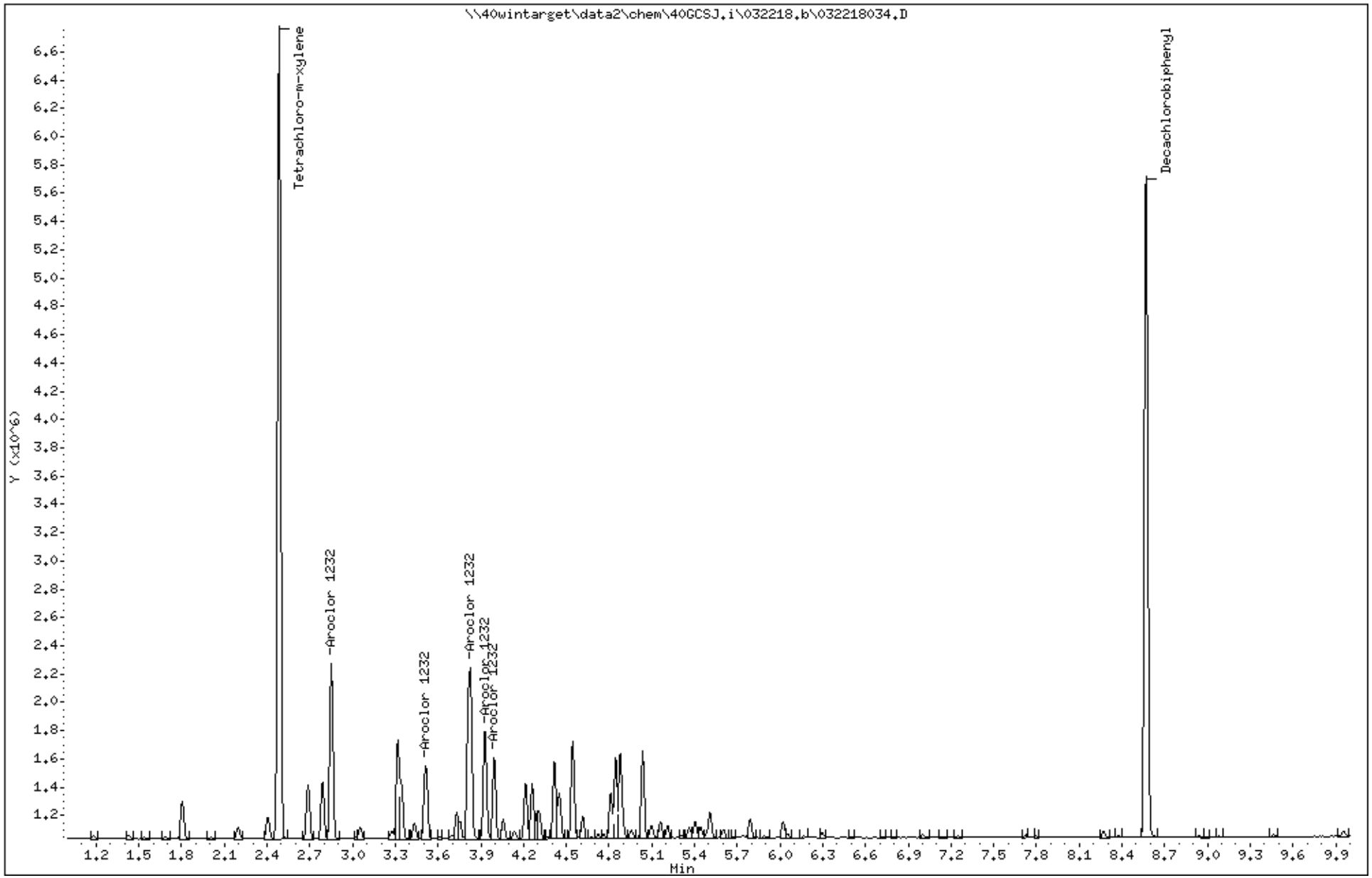
M - Compound response manually integrated.

Review Codes Legend

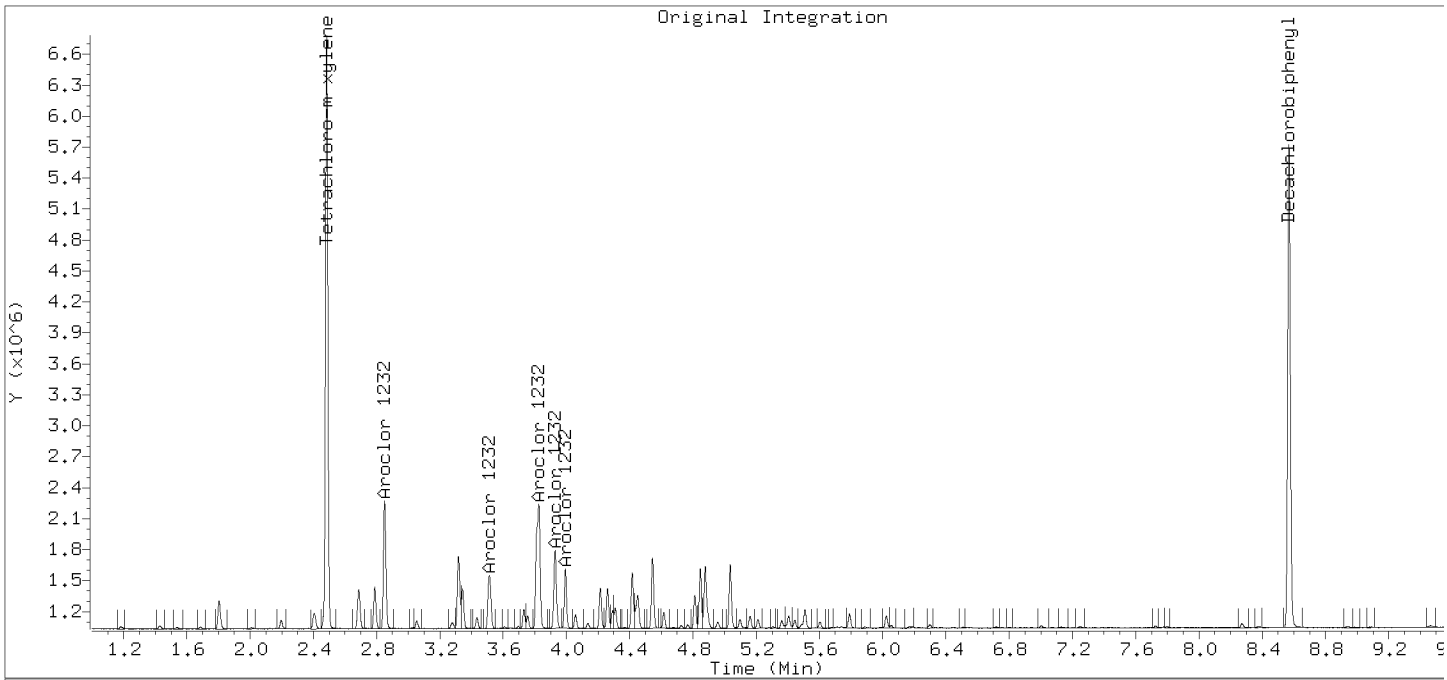
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

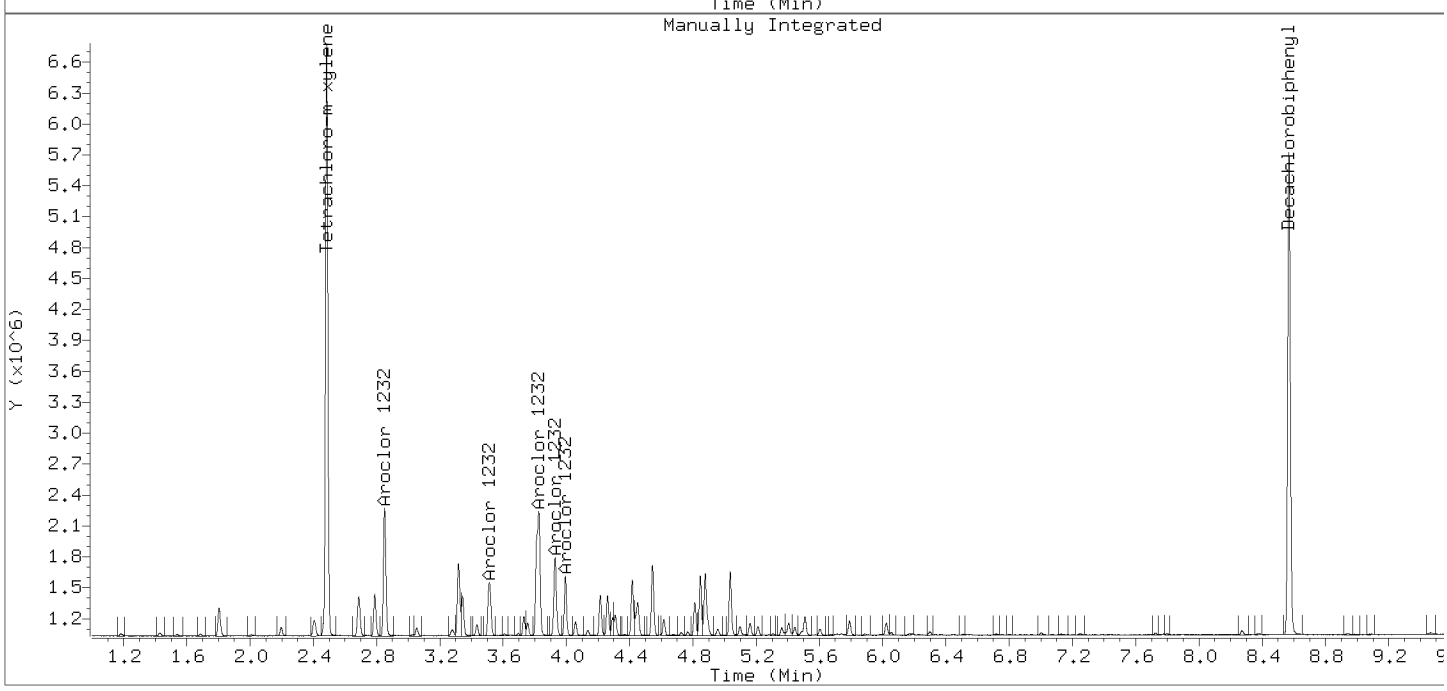
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218034.D
Date : 22-MAR-2018 21:06
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218034.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 22-MAR-2018 21:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1353454	1362377	BA
Aroclor 1232	1353454	1362377	BA
Aroclor 1232	1353454	1362377	BA
Aroclor 1232	1353454	1362377	BA
Aroclor 1232	1353454	1362377	BA
Tetrachloro-m-xylene	5997642	5997642	
Decachlorobiphenyl	5526214	5526214	

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.: 40151612

Date Extracted: 03/21/2018 07:00

Lab Sample ID: 1661578

Date Analyzed: 03/22/2018 13:42

Lab File ID: 032218.B\032218006.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\032218.b\032218006.D
Lab Smp Id: 1661578 Client Smp ID: MB
Inj Date : 22-MAR-2018 13:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661578,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	14243	14160	0.994	0.07		
1.431	11683	8370	0.716	0.06		
1.539	9407	9302	0.989	0.05		
2.009	12203	8887	0.728	0.06		
2.197	70081	39635	0.566	0.38		
2.485	8941456	8589033	0.961	48.99	$ 2 Tetrachloro-m-xylene	
2.786	15222	13669	0.898	0.08		
2.862	22016	12974	0.589	0.12		
3.035	10069	6622	0.658	0.05		
4.243	9555	7640	0.800	0.05		
6.192	11588	9015	0.778	0.06		
7.120	26621	15616	0.587	0.14		
7.728	47033	39630	0.843	0.25		
7.799	38133	32271	0.846	0.20		
8.274	80368	69153	0.860	0.43		
8.377	18998	12657	0.666	0.10		
8.571	8914806	7679918	0.861	48.76	$ 12 Decachlorobiphenyl	
8.946	17668	11446	0.648	0.09		
9.953	11031	8690	0.788	0.06		
	18282181	16588688		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218006.D
Lab Smp Id: 1661578 Client Smp ID: MB
Inj Date : 22-MAR-2018 13:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661578,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	8941455	0.07252	36			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

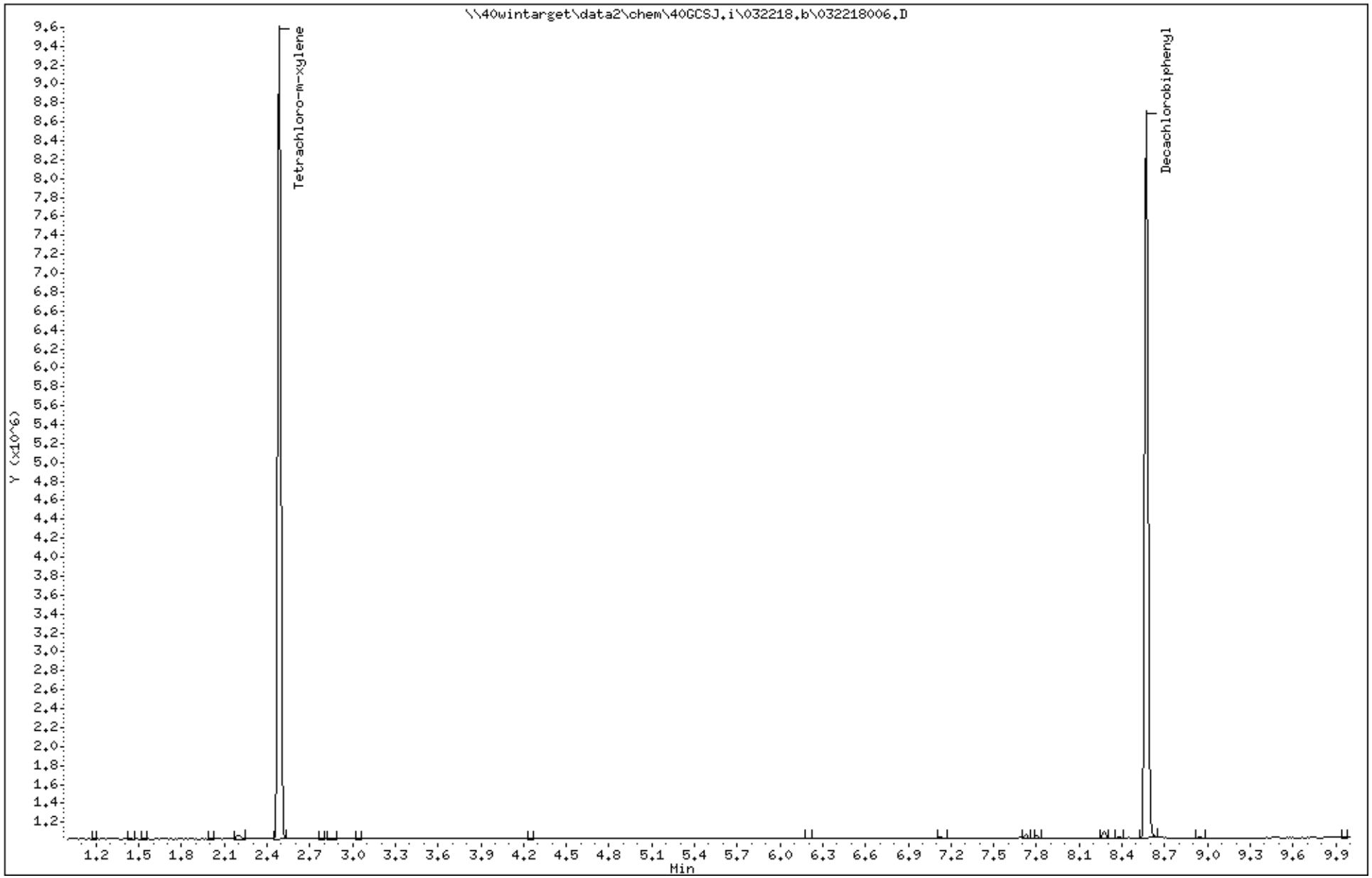
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	8914806	0.08137	41			

Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218006.D
Date : 22-MAR-2018 13:42
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1661578,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 13:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1661578

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	8941455	8941455	
Decachlorobiphenyl	8914806	8914806	

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.: 40151612

Date Extracted: 03/21/2018 07:00

Lab Sample ID: 1661579

Date Analyzed: 03/22/2018 13:58

Lab File ID: 032218.B\032218007.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)	221	
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\032218.b\032218007.D
Lab Smp Id: 1661579 Client Smp ID: MBLCS
Inj Date : 22-MAR-2018 13:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661579,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	18418	13223	0.718	0.04		
1.687	12554	10625	0.846	0.03		
1.799	9786	9195	0.940	0.02		
2.007	10634	9192	0.864	0.02		
2.197	75876	47092	0.621	0.18		
2.406	108172	82719	0.765	0.26		
2.485	9076220	8855302	0.976	22.76	$ 2 Tetrachloro-m-xylene	
2.686	161529	133354	0.826	0.39		
2.789	194881	183064	0.939	0.48		
2.851	872531	791865	0.908	2.14		
3.054	118368	100580	0.850	0.29		
3.276	21218	16611	0.783	0.05		
3.318	1123442	1046764	0.932	2.76	3 Aroclor 1242	BA
3.345	628783	587186	0.934	1.54		
3.435	176362	160071	0.908	0.43		
3.514	1102220	797912	0.724	2.71	3 Aroclor 1242	BA
3.645	23370	12980	0.555	0.05		
3.697	34516	30621	0.887	0.08		
3.732	284575	282623	0.993	0.70		
3.755	188846	182231	0.965	0.46		
3.827	3179643	1828184	0.575	7.83	3 Aroclor 1242	BA
3.929	1363627	1141157	0.837	3.35	3 Aroclor 1242	BA
3.995	892450	877361	0.983	2.19	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	238416	218976	0.918	0.58	
4.137	97273	86070	0.885	0.23	
4.215	743378	703084	0.946	1.83	
4.261	704598	666747	0.946	1.73	
4.294	278273	297346	1.069	0.68	
4.310	364796	324773	0.890	0.89	
4.372	25825	19705	0.763	0.06	
4.418	985751	905160	0.918	2.42	
4.451	735686	545068	0.741	1.81	
4.546	1243390	1112390	0.895	3.06	
4.617	283718	264744	0.933	0.69	
4.678	21980	17919	0.815	0.05	
4.727	62485	53992	0.864	0.15	
4.768	67392	65247	0.968	0.16	
4.812	564105	538450	0.955	1.38	
4.847	991096	962899	0.972	2.44	
4.879	1264440	942651	0.746	3.11	
4.958	139118	107344	0.772	0.34	
5.037	1033793	955238	0.924	2.54	
5.098	215094	162713	0.756	0.52	
5.162	247739	217225	0.877	0.61	
5.211	183925	159475	0.867	0.45	
5.285	15014	15062	1.003	0.03	
5.309	44344	36487	0.823	0.10	
5.363	159877	134855	0.843	0.39	
5.405	259815	220413	0.848	0.64	
5.446	163180	135990	0.833	0.40	
5.509	418984	313958	0.749	1.03	
5.604	127124	107233	0.844	0.31	
5.668	16171	13378	0.827	0.03	
5.715	29367	20060	0.683	0.07	
5.742	30854	28300	0.917	0.07	
5.792	261360	216019	0.827	0.64	
5.886	42834	26190	0.611	0.10	
6.024	219162	184668	0.843	0.54	
6.053	47256	34760	0.736	0.11	
6.168	15104	15037	0.996	0.03	
6.297	54032	47931	0.887	0.13	
6.508	10005	9275	0.927	0.02	
6.538	10470	10816	1.033	0.02	
6.713	9852	10011	1.016	0.02	
6.801	12074	9904	0.820	0.02	
7.001	14574	12556	0.862	0.03	
7.726	39154	33701	0.861	0.09	
7.801	33208	27335	0.823	0.08	
8.275	71934	62447	0.868	0.17	
8.376	19702	14681	0.745	0.04	
8.570	8220377	7077511	0.861	20.25	$ 12 Decachlorobiphenyl
8.938	15329	10584	0.690	0.03	
9.463	27009	17532	0.649	0.06	
9.958	26306	16756	0.637	0.06	
	40584764	35390578		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218007.D
Lab Smp Id: 1661579 Client Smp ID: MBLCS
Inj Date : 22-MAR-2018 13:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661579,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9076219	0.07361	37			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1123441	0.44349	220	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1102220	0.43738	220	0.00- 20.00	98.11	BA
3.826	3.827	-0.001	3179643	0.44680	220	0.00- 20.00	283.03	BA
3.928	3.929	-0.001	1363626	0.44833	220	0.00- 20.00	121.38	BA
3.994	3.995	-0.001	892449	0.43582	220	0.00- 20.00	79.44	BA
Average of Peak Concentrations =					220			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	8220377	0.07503	38	

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\032218.b\032218007.D

Date : 22-MAR-2018 13:58

Client ID: MBLCS

Instrument: 40GCSJ.i

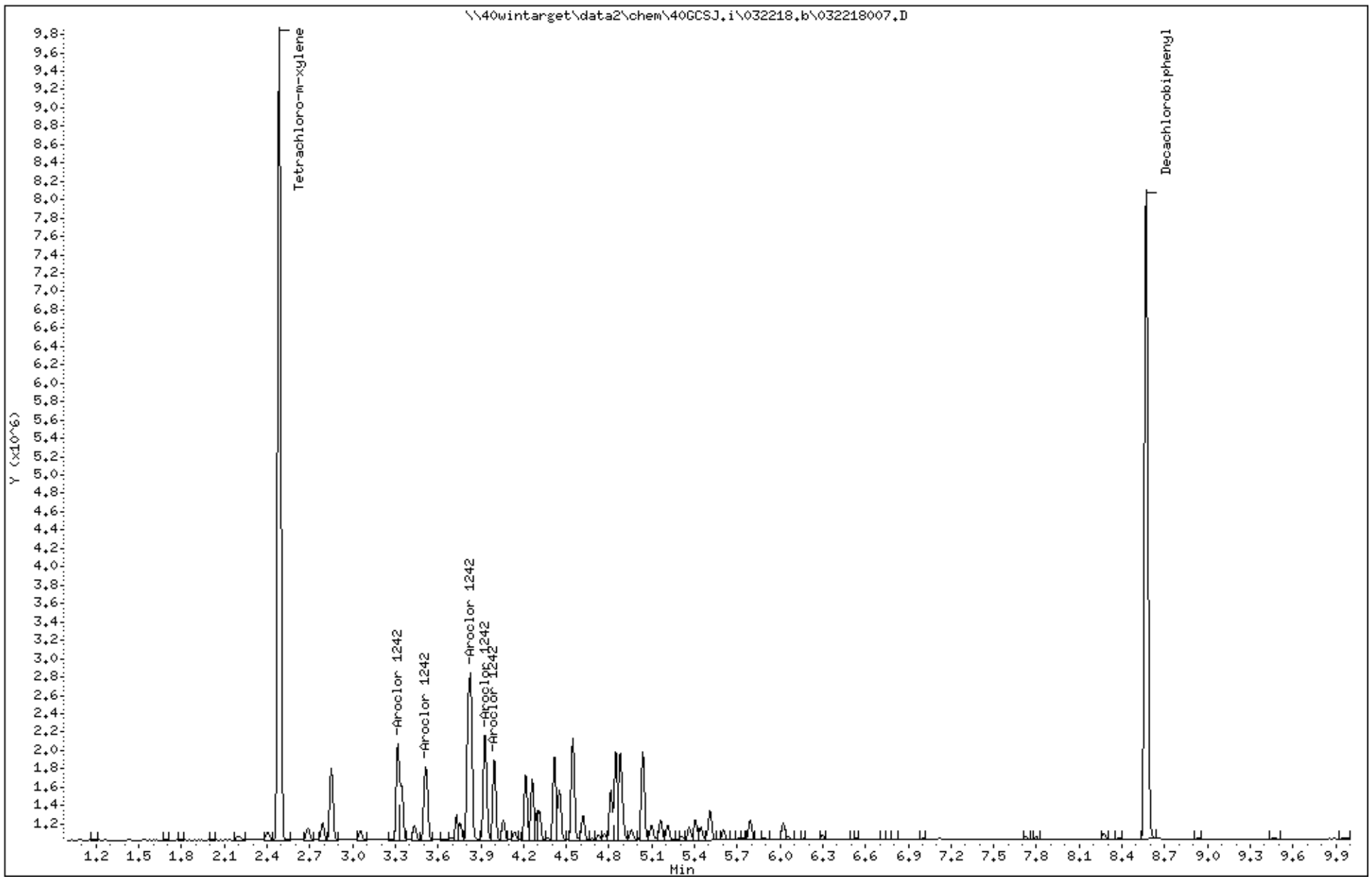
Sample Info: 1661579,

Volume Injected (uL): 1.0

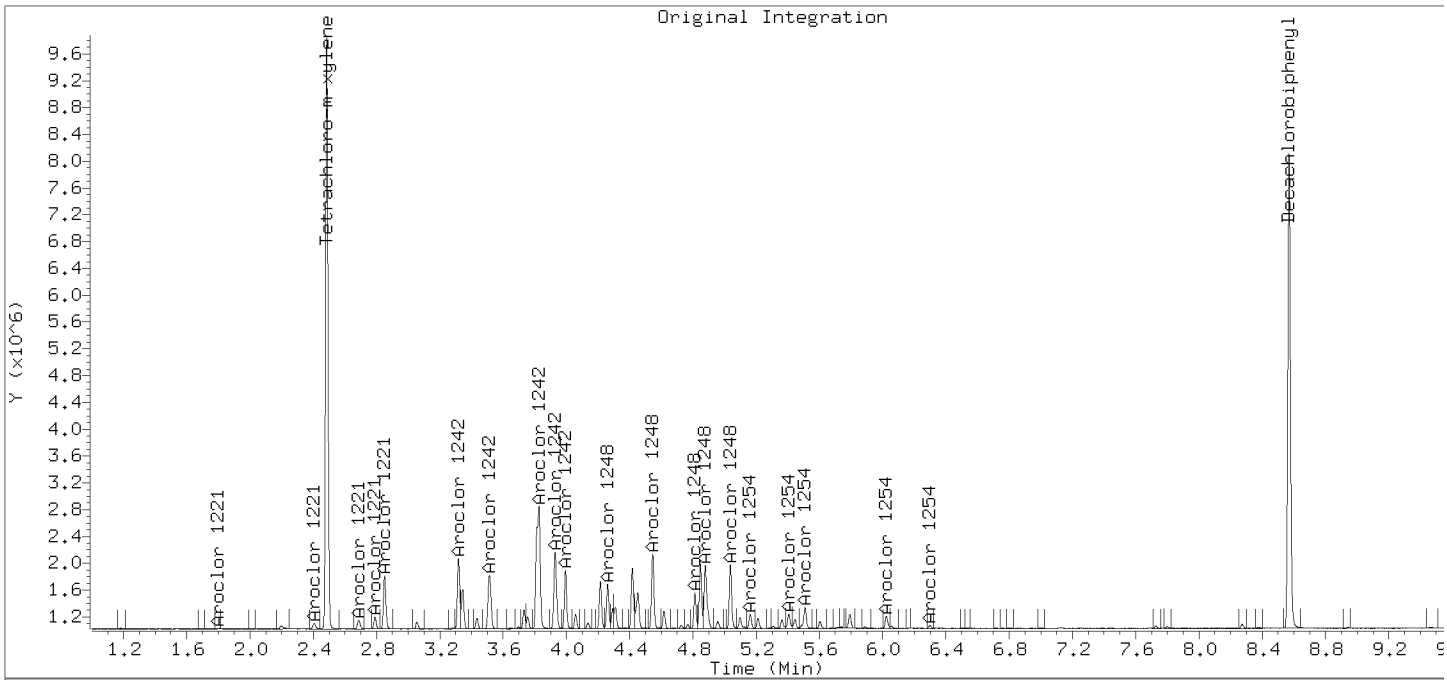
Operator: BLM

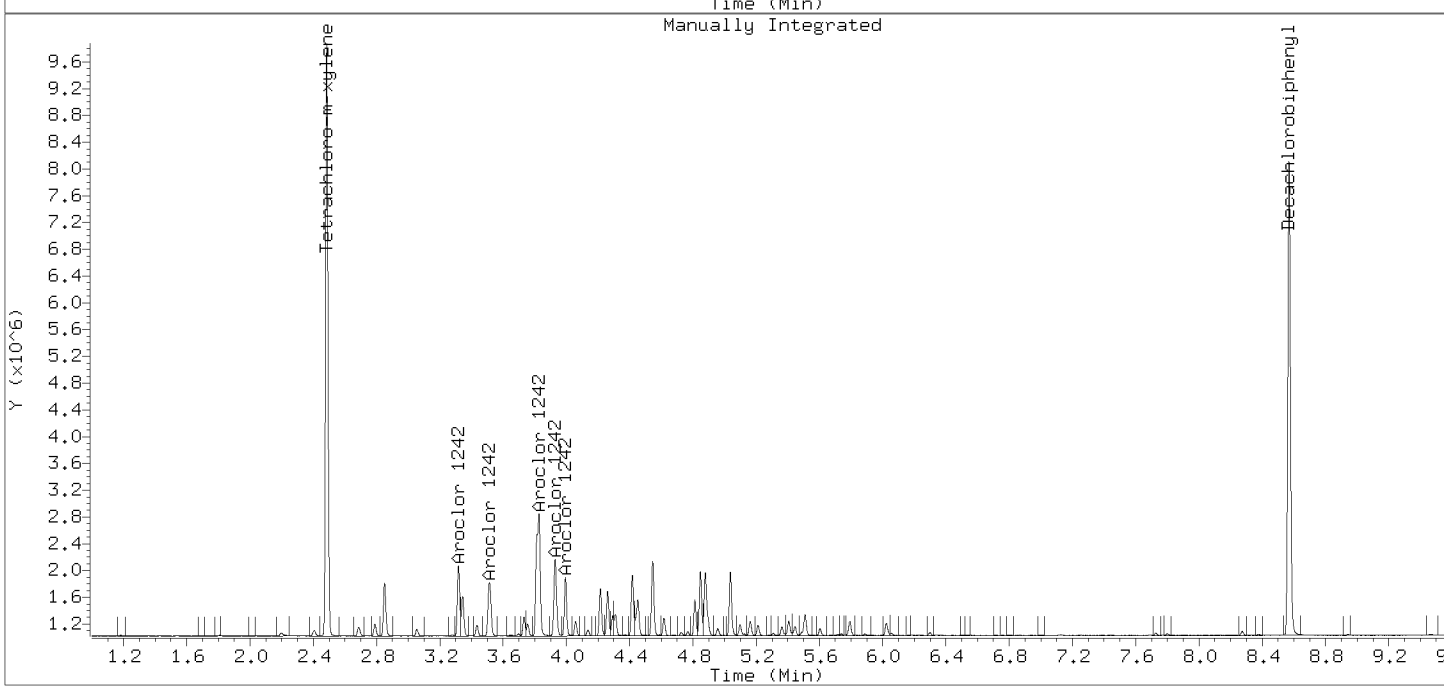
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 13:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1661579





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1116333	0	
Aroclor 1016	1116333	0	
Aroclor 1016	1116333	0	
Aroclor 1016	1116333	0	
Aroclor 1016	1116333	0	
Aroclor 1221	9786	0	
Aroclor 1221	9786	0	
Aroclor 1221	9786	0	
Aroclor 1221	9786	0	
Aroclor 1221	9786	0	
Aroclor 1232	863594	0	
Aroclor 1232	863594	0	
Aroclor 1232	863594	0	
Aroclor 1232	863594	0	

Aroclor 1232	863594	0	
Aroclor 1242	1116333	1123441	BA
Aroclor 1242	1116333	1123441	BA
Aroclor 1242	1116333	1123441	BA
Aroclor 1242	1116333	1123441	BA
Aroclor 1242	1116333	1123441	BA
Aroclor 1248	698624	0	
Aroclor 1248	698624	0	
Aroclor 1248	698624	0	
Aroclor 1248	698624	0	
Aroclor 1248	698624	0	
Aroclor 1254	239293	0	
Aroclor 1254	239293	0	
Aroclor 1254	239293	0	
Aroclor 1254	239293	0	
Aroclor 1254	239293	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9076219	9076219	
Decachlorobiphenyl	8220377	8220377	

==========

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: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151612

Date Extracted: 03/21/2018 07:00

Lab Sample ID: 1661580

Date Analyzed: 03/22/2018 14:14

Lab File ID: 032218.B\032218008.D

Initial wt/vol: 10.0089 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)	242	
12672-29-6	PCB-1248 (Aroclor 1248)	178	
11097-69-1	PCB-1254 (Aroclor 1254)	37.5	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218008.D
Lab Smp Id: 1661580 Client Smp ID: FD1-170613-01-YP-04
Inj Date : 22-MAR-2018 14:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661580,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.158	24603	19883	0.808	0.04		
1.805	17121	14994	0.876	0.03		
2.197	58337	40389	0.692	0.11		
2.407	169755	135954	0.801	0.34		
2.485	9643584	9509237	0.986	20.00	$ 2 Tetrachloro-m-xylene	
2.617	9828	7875	0.801	0.01		
2.687	173429	145575	0.839	0.34		
2.789	209993	201035	0.957	0.42		
2.851	948927	882824	0.930	1.91		
2.963	34565	30122	0.871	0.06		
2.990	68053	65751	0.966	0.13		
3.020	42202	40570	0.961	0.08		
3.056	124349	111068	0.893	0.25		
3.278	23210	18528	0.798	0.04		
3.318	1227113	1129554	0.920	2.47	3 Aroclor 1242	BA
3.344	694136	648029	0.934	1.39		
3.435	201621	179783	0.892	0.40		
3.513	1211006	868043	0.717	2.43	3 Aroclor 1242	BA
3.645	22760	15398	0.677	0.04		
3.697	36737	36350	0.989	0.07		
3.731	313136	308571	0.985	0.63		
3.756	204822	199936	0.976	0.41		
3.826	3494564	2042454	0.584	7.03	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.929	1476152	1251282	0.848	2.97	3 Aroclor 1242
3.995	991842	955001	0.963	1.99	3 Aroclor 1242
4.058	272026	251561	0.925	0.54	
4.136	109233	100034	0.916	0.21	
4.215	899931	847033	0.941	1.81	
4.261	860810	821005	0.954	1.73	6 Aroclor 1248
4.293	374830	368788	0.984	0.75	
4.309	376799	362101	0.961	0.75	
4.372	25811	22569	0.874	0.05	
4.417	1149664	1066301	0.927	2.31	
4.452	866324	651098	0.752	1.74	
4.546	1468863	1345976	0.916	2.95	6 Aroclor 1248
4.593	25922	25188	0.972	0.05	
4.617	341070	306730	0.899	0.68	
4.680	25634	22022	0.859	0.05	
4.726	77775	64942	0.835	0.15	
4.768	102896	92401	0.898	0.20	
4.812	757211	734666	0.970	1.52	6 Aroclor 1248
4.847	1203494	1139429	0.947	2.42	
4.878	1722853	1305104	0.758	3.46	6 Aroclor 1248
4.957	179667	144519	0.804	0.36	
5.037	1318480	1201593	0.911	2.65	6 Aroclor 1248
5.099	302113	238415	0.789	0.60	
5.163	391715	350655	0.895	0.78	7 Aroclor 1254
5.212	334342	295460	0.884	0.67	
5.283	29534	27255	0.923	0.05	
5.311	93048	81487	0.876	0.18	
5.363	217557	192683	0.886	0.43	
5.406	369304	329382	0.892	0.74	7 Aroclor 1254
5.450	643757	564067	0.876	1.29	
5.487	44123	70936	1.608	0.08	
5.509	625388	555459	0.888	1.25	7 Aroclor 1254
5.604	165205	150780	0.913	0.33	
5.675	55404	53556	0.967	0.11	
5.714	53762	41036	0.763	0.10	
5.740	87147	63028	0.723	0.17	
5.790	580246	491868	0.848	1.16	
5.817	37293	44742	1.200	0.07	
5.890	99617	45960	0.461	0.20	
5.993	54713	53024	0.969	0.11	
6.024	400631	346524	0.865	0.80	7 Aroclor 1254
6.055	242864	192761	0.794	0.48	
6.169	78421	45275	0.577	0.15	
6.242	64890	34749	0.536	0.13	
6.299	334827	274593	0.820	0.67	7 Aroclor 1254
6.331	44287	38496	0.869	0.08	
6.370	23893	20219	0.846	0.04	
6.431	30126	23245	0.772	0.06	
6.508	109542	95742	0.874	0.22	
6.535	72329	69993	0.968	0.14	
6.558	53221	38777	0.729	0.10	
6.609	9585	7983	0.833	0.01	
6.659	15367	13941	0.907	0.03	
6.717	63173	49061	0.777	0.12	
6.758	65615	51274	0.781	0.13	
6.801	63764	49563	0.777	0.12	
6.840	29557	21996	0.744	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.940	82576	62787	0.760	0.16	
7.004	120852	100325	0.830	0.24	8 Aroclor 1260
7.033	18999	18946	0.997	0.03	
7.124	51736	20215	0.391	0.10	
7.249	89702	65402	0.729	0.18	8 Aroclor 1260
7.282	62616	35276	0.563	0.12	
7.336	29113	18578	0.638	0.05	
7.388	30078	28475	0.947	0.06	
7.443	46964	37469	0.798	0.09	8 Aroclor 1260
7.488	35480	20252	0.571	0.07	
7.520	19942	16429	0.824	0.04	
7.576	14775	11629	0.787	0.02	
7.695	23609	22860	0.968	0.04	
7.725	63756	38433	0.603	0.12	
7.763	24259	17602	0.726	0.04	
7.806	35978	20417	0.567	0.07	
7.835	6091	6736	1.106	0.01	
7.859	8828	7816	0.885	0.01	
7.901	30877	23540	0.762	0.06	8 Aroclor 1260
7.957	23413	18136	0.775	0.04	
8.048	11972	11746	0.981	0.02	
8.273	81833	69858	0.854	0.16	
8.375	49875	33521	0.672	0.10	
8.448	18317	14606	0.797	0.03	
8.475	10236	10460	1.022	0.02	
8.569	8966212	7728959	0.862	18.05	$ 12 Decachlorobiphenyl
8.638	12038	12735	1.058	0.02	
8.945	10650	7880	0.740	0.02	
9.167	208021	184243	0.886	0.41	
	49656295	43420582		100.000	

Total unknown % area = 28

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218008.D
Lab Smp Id: 1661580 Client Smp ID: FD1-170613-01-YP-04
Inj Date : 22-MAR-2018 14:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661580,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9643584	0.07822	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1227112	0.48441	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1211005	0.48055	240	0.00- 20.00	98.69	BA
3.825	3.827	-0.002	3494563	0.49105	240	0.00- 20.00	284.78	BA
3.928	3.929	-0.001	1476152	0.48533	240	0.00- 20.00	120.29	BA
3.994	3.995	-0.001	991842	0.48436	240	0.00- 20.00	80.83	BA
Average of Peak Concentrations =					240			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	860809	0.36740	180	0.00- 20.00	100.00(M)	
4.545	4.546	-0.001	1444699	0.34809	170	0.00- 20.00	167.83	
4.812	4.812	0.000	746996	0.36796	180	0.00- 20.00	86.78	
4.878	4.879	-0.001	1700268	0.33753	170	0.00- 20.00	197.52	
5.036	5.038	-0.002	1289583	0.35936	180	0.00- 20.00	149.81	
		Average of Peak Concentrations =			180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	391714	0.07482	37	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	369303	0.08586	43	0.00- 20.00	94.28	CO
5.509	5.510	-0.001	625387	0.08053	40	0.00- 20.00	159.65	CO
6.023	6.027	-0.004	400631	0.08227	41	0.00- 20.00	102.28	CO
6.298	6.299	-0.001	334826	0.05146	26	0.00- 20.00	85.48	CO
		Average of Peak Concentrations =			37			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	8966211	0.08184	41			

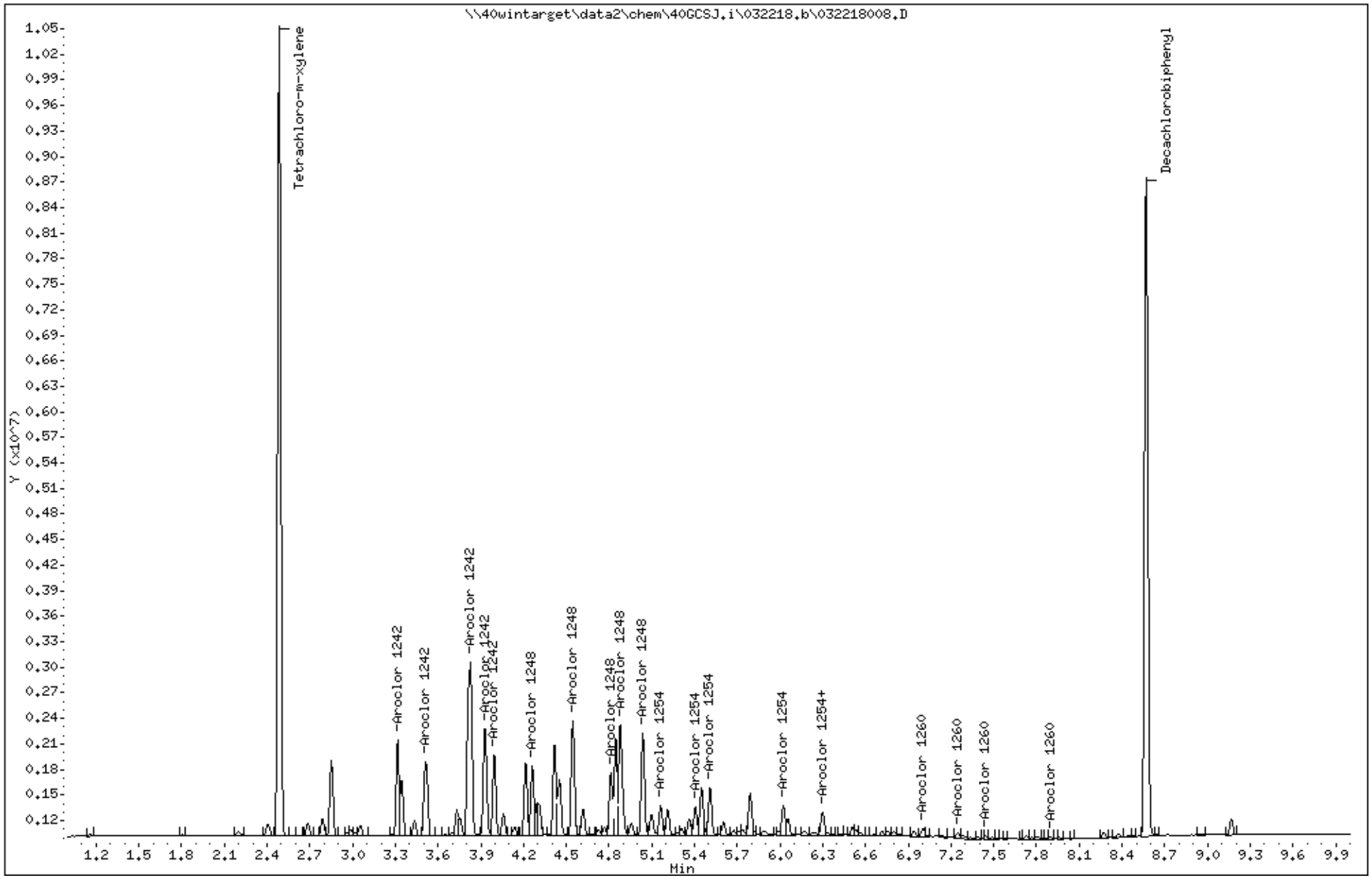
QC Flag Legend

M - Compound response manually integrated.

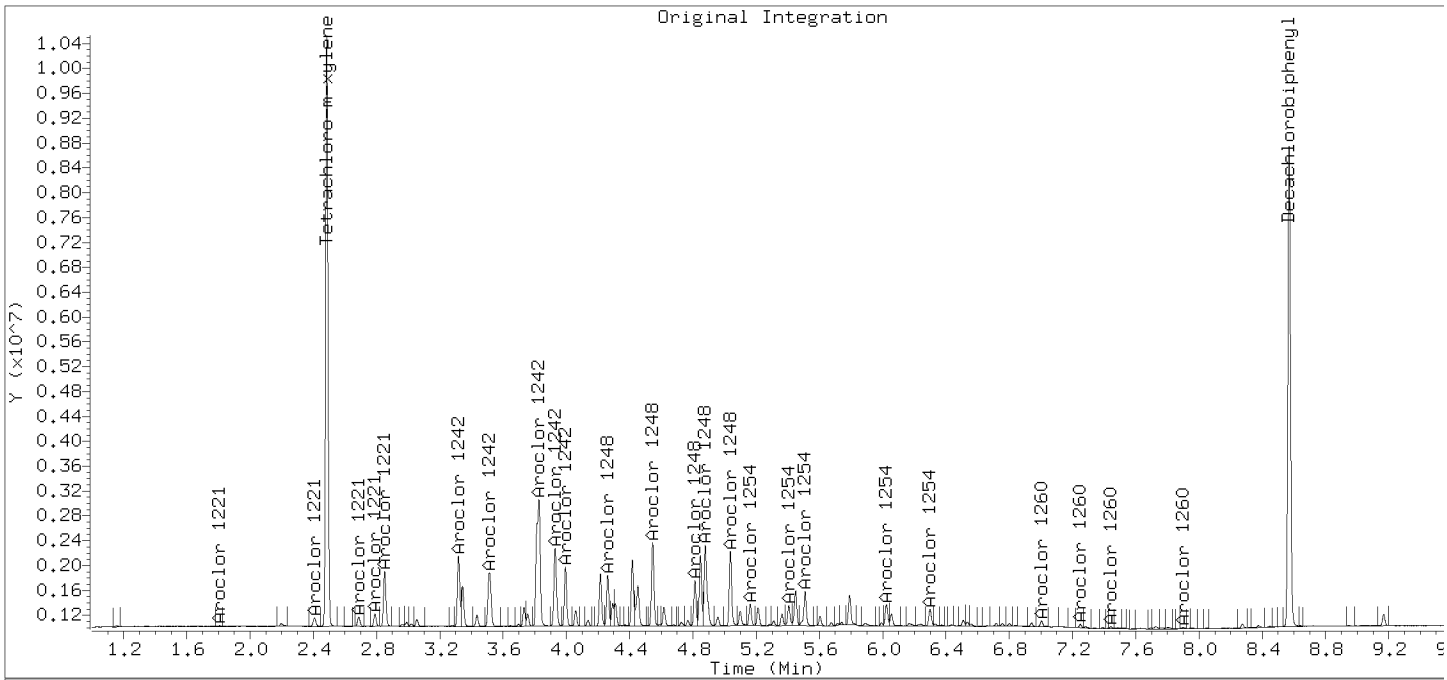
Review Codes Legend

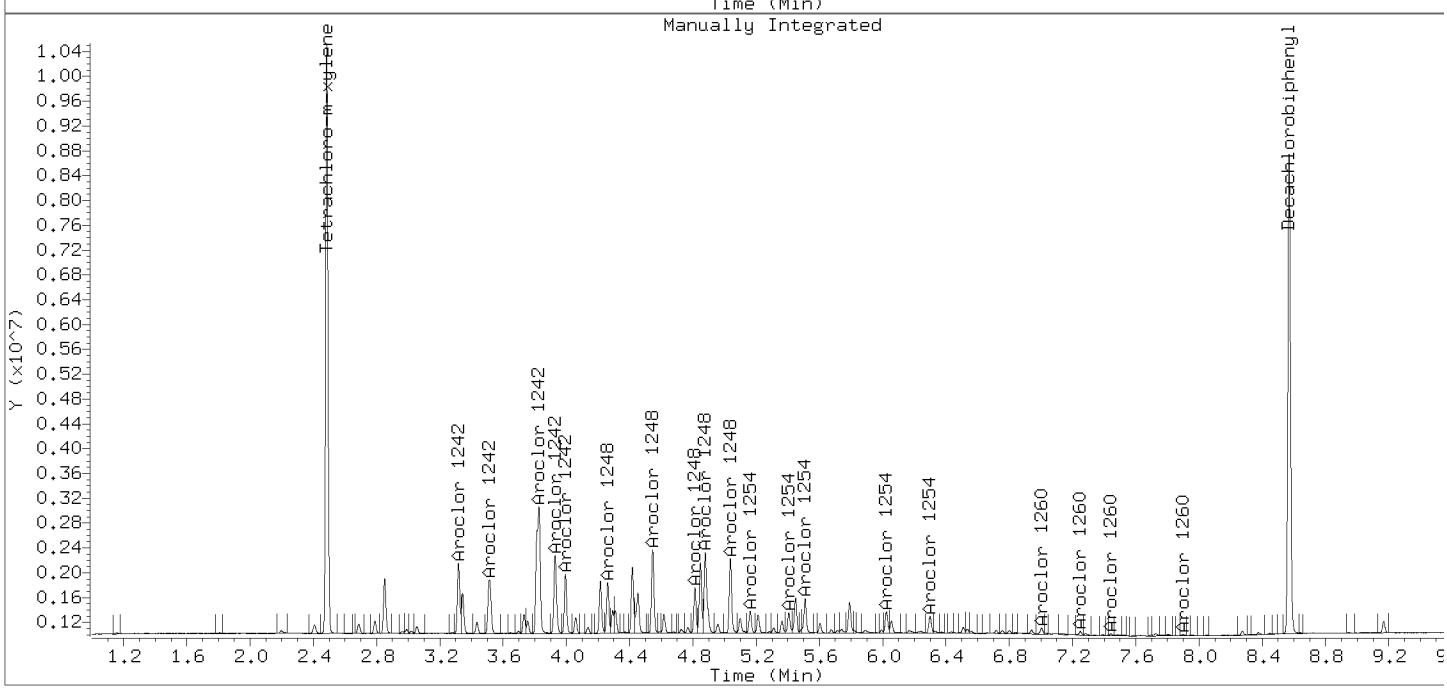
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218008.D
Date : 22-MAR-2018 14:14
Client ID: FD1-170613-01-YP-04
Instrument: 40GCSJ.i
Sample Info: 1661580,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 14:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1661580





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1222907	0	
Aroclor 1016	1222907	0	
Aroclor 1016	1222907	0	
Aroclor 1016	1222907	0	
Aroclor 1016	1222907	0	
Aroclor 1221	17120	0	
Aroclor 1221	17120	0	
Aroclor 1221	17120	0	
Aroclor 1221	17120	0	
Aroclor 1221	17120	0	
Aroclor 1232	948927	0	
Aroclor 1232	948927	0	
Aroclor 1232	948927	0	
Aroclor 1232	948927	0	

Aroclor 1232	948927	0	
Aroclor 1242	1222907	1227112	BA
Aroclor 1242	1222907	1227112	BA
Aroclor 1242	1222907	1227112	BA
Aroclor 1242	1222907	1227112	BA
Aroclor 1242	1222907	1227112	BA
Aroclor 1248	844423	860809	
Aroclor 1248	844423	860809	
Aroclor 1248	844423	860809	
Aroclor 1248	844423	860809	
Aroclor 1248	844423	860809	
Aroclor 1254	365357	391714	CO
Aroclor 1254	365357	391714	CO
Aroclor 1254	365357	391714	CO
Aroclor 1254	365357	391714	CO
Aroclor 1254	365357	391714	CO
Aroclor 1260	327230	0	CO
Aroclor 1260	327230	0	CO
Aroclor 1260	327230	0	CO
Aroclor 1260	327230	0	CO
Aroclor 1260	327230	0	CO
Tetrachloro-m-xylene	9643584	9643584	
Decachlorobiphenyl	8966211	8966211	

==========

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: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151612

Date Extracted: 03/21/2018 07:00

Lab Sample ID: 1661581

Date Analyzed: 03/22/2018 20:02

Lab File ID: 032218.B\032218030.D

Initial wt/vol: 10.0138 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)	36.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	18.3	J
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218030.D
Lab Smp Id: 1661581 Client Smp ID: FD1-170613-01-YP-04
Inj Date : 22-MAR-2018 20:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661581,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30 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	10.014	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.097	9420	7290	0.774	0.03		
1.156	26680	23572	0.883	0.09		
1.425	14443	9995	0.692	0.05		
2.196	157589	70190	0.445	0.56		
2.294	17766	13557	0.763	0.06		
2.317	9636	8176	0.848	0.03		
2.410	69508	67692	0.974	0.24		
2.484	10409766	10387482	0.998	37.64	$ 2 Tetrachloro-m-xylene	
2.788	18748	15603	0.832	0.06		
2.859	23345	15870	0.680	0.08	4 Aroclor 1232	BA
2.962	35009	33091	0.945	0.12		
2.989	79512	74665	0.939	0.28		
3.019	43256	46317	1.071	0.15		
3.519	14819	10714	0.723	0.05	4 Aroclor 1232	BA
3.826	114955	81740	0.711	0.41	4 Aroclor 1232	BA
3.933	16396	9192	0.561	0.05	4 Aroclor 1232	BA
3.996	28085	23875	0.850	0.10	4 Aroclor 1232	BA
4.055	23048	17761	0.771	0.08		
4.214	136158	124096	0.911	0.48		
4.261	147569	138720	0.940	0.52	6 Aroclor 1248	BA
4.291	106975	77239	0.722	0.38		
4.417	117643	108526	0.923	0.42		
4.453	82550	73662	0.892	0.29		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	201803	172930	0.857	0.72	6 Aroclor 1248
4.616	31990	26274	0.821	0.11	
4.729	13385	12418	0.928	0.04	
4.766	36301	32665	0.900	0.12	
4.813	188227	179993	0.956	0.67	6 Aroclor 1248
4.847	151647	146220	0.964	0.54	
4.877	472123	375972	0.796	1.68	6 Aroclor 1248
4.955	45095	34682	0.769	0.16	
5.036	223119	203277	0.911	0.79	6 Aroclor 1248
5.097	95595	76252	0.798	0.34	
5.160	168161	149959	0.892	0.60	7 Aroclor 1254
5.211	182505	158658	0.869	0.65	
5.282	18309	18339	1.002	0.06	
5.310	61443	55933	0.910	0.21	
5.363	78294	64726	0.827	0.27	
5.406	120823	108637	0.899	0.43	7 Aroclor 1254
5.450	554424	531585	0.959	1.98	
5.508	260192	218451	0.840	0.92	7 Aroclor 1254
5.575	16552	13404	0.810	0.05	
5.602	49217	42261	0.859	0.17	
5.674	55194	48756	0.883	0.19	
5.708	40274	29446	0.731	0.14	
5.741	50664	41050	0.810	0.18	
5.789	372536	301338	0.809	1.33	
5.822	61843	47790	0.773	0.22	
5.892	47000	26821	0.571	0.16	
5.926	14064	13179	0.937	0.05	
5.993	59235	53735	0.907	0.21	
6.023	198773	179646	0.904	0.71	7 Aroclor 1254
6.055	219810	185428	0.844	0.78	
6.167	72016	37885	0.526	0.25	
6.225	13506	20559	1.522	0.04	
6.241	44223	30586	0.692	0.15	
6.299	314776	265132	0.842	1.12	7 Aroclor 1254
6.331	32788	31232	0.953	0.11	
6.371	23375	14956	0.640	0.08	
6.430	34671	22727	0.655	0.12	
6.507	104526	96884	0.927	0.37	
6.532	73282	63482	0.866	0.26	
6.560	54647	37565	0.687	0.19	
6.662	16925	14598	0.863	0.06	
6.716	70943	49166	0.693	0.25	
6.755	82760	58012	0.701	0.29	
6.801	65398	50489	0.772	0.23	
6.840	31991	22426	0.701	0.11	
6.939	93044	74305	0.799	0.33	
7.003	119508	102637	0.859	0.42	8 Aroclor 1260
7.076	12708	8635	0.679	0.04	
7.119	9525	8717	0.915	0.03	
7.248	81133	63867	0.787	0.28	8 Aroclor 1260
7.280	57682	34866	0.604	0.20	
7.336	31662	19777	0.625	0.11	
7.390	38317	30202	0.788	0.13	
7.440	65200	40321	0.618	0.23	8 Aroclor 1260
7.523	35452	18501	0.522	0.12	
7.574	16890	13687	0.810	0.06	
7.689	21605	21174	0.980	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.724	54174	40668	0.751	0.19	
7.763	33692	21186	0.629	0.12	
7.797	31958	22930	0.718	0.11	
7.898	50222	24137	0.481	0.17	8 Aroclor 1260
7.955	36977	22730	0.615	0.13	
8.047	17956	15757	0.878	0.06	
8.272	85966	74745	0.869	0.30	
8.317	12566	9256	0.737	0.04	
8.374	40151	34801	0.867	0.14	
8.445	18543	17568	0.947	0.06	
8.479	12062	10333	0.857	0.04	
8.568	9819660	8690211	0.885	35.08	$ 12 Decachlorobiphenyl
8.638	19151	12178	0.636	0.06	
8.718	12654	9447	0.747	0.04	
8.935	16913	12501	0.739	0.06	
9.166	241993	222108	0.918	0.86	
9.465	27644	21182	0.766	0.09	
9.960	44138	27881	0.632	0.15	
	27986451	25530857		100.000	

Total unknown % area = 17

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218030.D
Lab Smp Id: 1661581 Client Smp ID: FD1-170613-01-YP-04
Inj Date : 22-MAR-2018 20:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1661581,
Misc Info : 17562,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032218.b\pcba030618.m
Meth Date : 03-Apr-2018 10:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30 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	10.014	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	10409766	0.08443	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

```
                                          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

Compound Not Detected.                                                                     BA
-------------------------------------------------------------------------------
    6 Aroclor 1248                                CAS #: 12672-29-6
4.261    4.261    0.000          147569 0.06298       31   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001          201802 0.04862       24   0.00-  20.00   136.75         BA
4.813    4.812    0.001          188226 0.09272       46   0.00-  20.00   127.55         BA
4.877    4.879   -0.002          472122 0.09372       47   0.00-  20.00   319.93         BA
5.036    5.038   -0.002          223118 0.06218       31   0.00-  20.00   151.20         BA
               Average of Peak Concentrations =       36
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002          168160 0.03212       16   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003          120822 0.02809       14   0.00-  20.00    71.85         BA
5.508    5.510   -0.002          260191 0.03350       17   0.00-  20.00   154.73         BA
6.023    6.027   -0.004          198772 0.04082       20   0.00-  20.00   118.20         BA
6.299    6.299    0.000          314776 0.04837       24   0.00-  20.00   187.19         BA
               Average of Peak Concentrations =       18
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5

Compound Not Detected.                                                                     BA
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                           CAS #: 2051-24-3
8.568    8.571   -0.003         9819659 0.08963       45
-------------------------------------------------------------------------------
```

QC Flag Legend

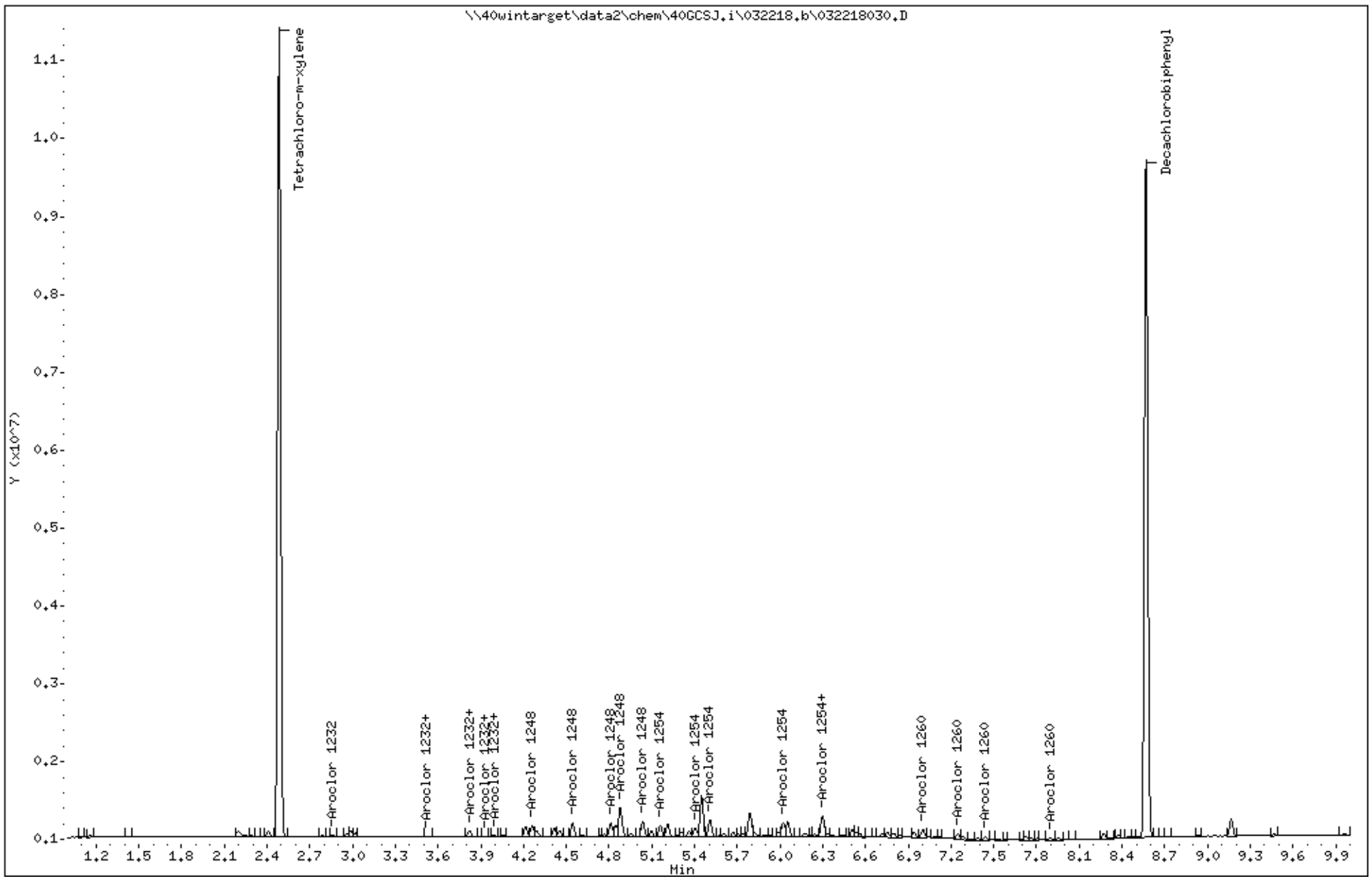
M - Compound response manually integrated.

Review Codes Legend

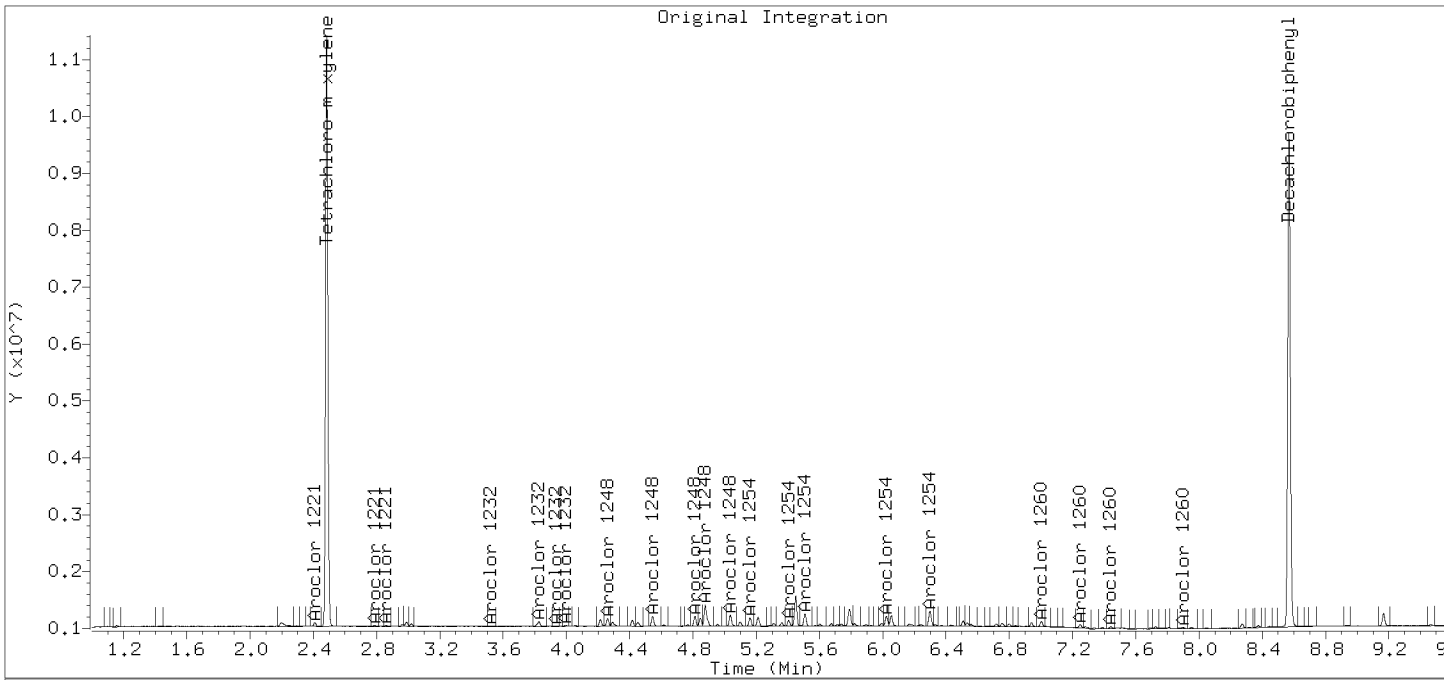
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

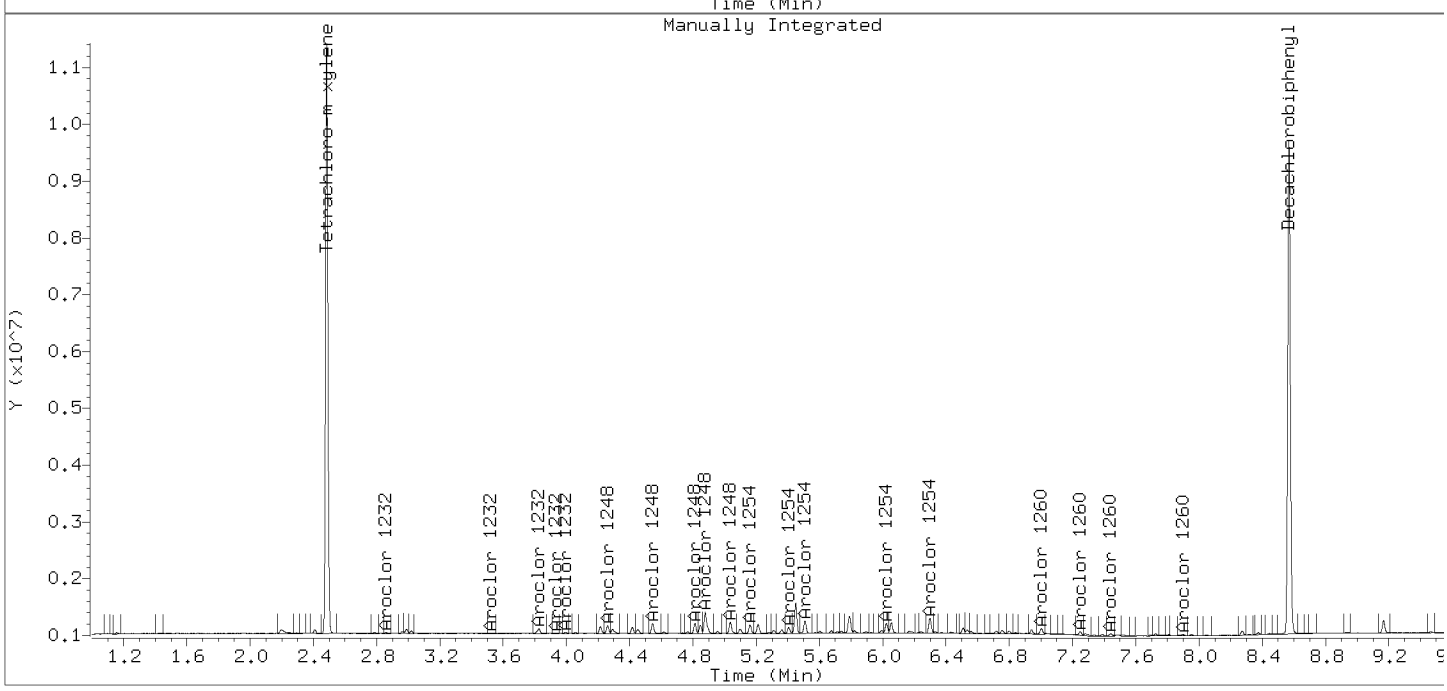
Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b\032218030.D
Date : 22-MAR-2018 20:02
Client ID: FD1-170613-01-YP-04
Sample Info: 1661581,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032218.b/032218030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 22-MAR-2018 20:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1661581





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	23344	0	BA
Aroclor 1232	23344	0	BA
Aroclor 1232	23344	0	BA
Aroclor 1232	23344	0	BA

Aroclor 1232	23344	0	BA
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	140809	147569	BA
Aroclor 1248	140809	147569	BA
Aroclor 1248	140809	147569	BA
Aroclor 1248	140809	147569	BA
Aroclor 1248	140809	147569	BA
Aroclor 1254	163507	168160	BA
Aroclor 1254	163507	168160	BA
Aroclor 1254	163507	168160	BA
Aroclor 1254	163507	168160	BA
Aroclor 1254	163507	168160	BA
Aroclor 1260	311394	0	BA
Aroclor 1260	311394	0	BA
Aroclor 1260	311394	0	BA
Aroclor 1260	311394	0	BA
Aroclor 1260	311394	0	BA
Tetrachloro-m-xylene	10409766	10409766	
Decachlorobiphenyl	9819659	9819659	

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Prep Log Report

Batch Information: OEXT 283848 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	03/21/2018 07:00:50:996
Spiked By	AMC	Spiked By Date/Time	03/21/2018 07:00:53:076	Witnessed By	BLM	Witnessed By Date/Time	03/21/2018 07:00:53:076
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191930	Hexane	188917	Sodium Sulfate	190952	Florisil	186910
3620B Date/Initials	03/22/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/22/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/03/2018 10:29	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	**1661578**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1661579**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151612001**	9.9772	5	3		189973 (.25)	
8082A TNYP	PS	**40151612002**	10.0024	5	3		189973 (.25)	
8082A TNYP	PS	**40151612003**	9.9979	5	3		189973 (.25)	
8082A TNYP	PS	**40151612004**	9.9851	5	3		189973 (.25)	
8082A TNYP	PS	**40151612005**	9.9907	5	3		189973 (.25)	
8082A TNYP	PS	**40151612006**	9.983	5	3		189973 (.25)	
8082A TNYP	PS	**40151612007**	9.9883	5	3		189973 (.25)	
8082A TNYP	PS	**40151612008**	9.9947	5	3		189973 (.25)	
8082A TNYP	PS	**40151612009**	10.0163	5	3		189973 (.25)	
8082A TNYP	PS	**40151612010**	9.9635	5	3		189973 (.25)	
8082A TNYP	PS	**40151612011**	10.0106	5	3		189973 (.25)	
8082A TNYP	PS	**40151612012**	10.0322	5	3		189973 (.25)	
8082A TNYP	PS	**40151612013**	10.0303	5	3		189973 (.25)	
8082A TNYP	PS	**40151612014**	10.0281	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	**40151612015**	9.9768	5	3		189973 (.25)	
8082A TNYP	PS	**40151612016**	10.0324	5	3		189973 (.25)	
8082A TNYP	RQS	**40151612017**	10.0135	5	3		189973 (.25)	
8082A TNYP	MS	**1661580**	10.0089	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1661581**	10.0138	5	3		189973 (.25)	
8082A TNYP	PS	**40151612018**	10.0007	5	3		189973 (.25)	
8082A TNYP	PS	**40151612019**	10.0084	5	3		189973 (.25)	
8082A TNYP	PS	**40151612020**	9.9904	5	3		189973 (.25)	

Standard Notes:

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

```
   Sequence Name: C:\msdchem\1\sequence\032218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\032218\
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  1661578MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1661579LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1661580MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151612-001
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40151612-002
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151612-003
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151612-004
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151612-005
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151612-006
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151612-007
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151612-008
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151612-009
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151612-010
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151612-011
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151612-012
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151612-013
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151612-014
     Datafile          --------
```

GE BIOTA

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Read and Understood By

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

```
      Method              SCREEN2014
20) Sample          20  40151612-015
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21  40151612-016
      Datafile            --------
      Method              SCREEN2014
22) Sample          22  40151612-017P
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23  1661581DUP
      Datafile            --------
      Method              SCREEN2014
24) Sample          24  40151612-018
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25  40151612-019
      Datafile            --------
      Method              SCREEN2014
26) Sample          26  40151612-020
      Datafile            --------
      Method              SCREEN2014
```

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BLM 3/26/18

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Read and Understood By

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

```
   Sequence Name: C:\msdchem\1\sequence\030618.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

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

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```

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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

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

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

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Read and Understood By

Signed: Bryan Meyer
Date: 3/7/18
Signed:
Date: 3/7/18

```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 OK
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 OK
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 OK
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 OK
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 OK
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 OK
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 OK
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 OK
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 OK
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 OK
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 OK
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 OK
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 OK
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 OK
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 OK
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 OK
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 OK
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 OK
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 OK
      Datafile            030618088
      Method              GEBIOTA2017

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Read and Understood By

Beyza Meyl — Signed — 3/7/18 Date — Signed — 3/7/18 Date

```
     Sequence Name: C:\msdchem\1\sequence\032218.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\032218\
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          032218001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032218002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032218003
     Method            GEBIOTA2017
 4) Sample          4  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032218004
     Method            GEBIOTA2017
 5) Sample          5  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032218005
     Method            GEBIOTA2017
 6) Sample          6  1661578,,17562,BIOTA
     Datafile          032218006
     Method            GEBIOTA2017
 7) Sample          7  1661579,,17562,BIOTA
     Datafile          032218007
     Method            GEBIOTA2017
 8) Sample          8  1661580,,17562,BIOTA
     Datafile          032218008
     Method            GEBIOTA2017
 9) Sample          9  40151612001,,17562,BIOTA
     Datafile          032218009
     Method            GEBIOTA2017
10) Sample         10  40151612002,,17562,BIOTA
     Datafile          032218010
     Method            GEBIOTA2017
11) Sample         11  40151612003,,17562,BIOTA
     Datafile          032218011
     Method            GEBIOTA2017
12) Sample         12  40151612004,,17562,BIOTA
     Datafile          032218012
     Method            GEBIOTA2017
13) Sample         13  40151612005,,17562,BIOTA
     Datafile          032218013
     Method            GEBIOTA2017
14) Sample         14  40151612006,,17562,BIOTA
     Datafile          032218014
     Method            GEBIOTA2017
15) Sample         15  40151612007,,17562,BIOTA
     Datafile          032218015
     Method            GEBIOTA2017
16) Sample         16  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032218016
     Method            GEBIOTA2017
17) Sample         17  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032218017
     Method            GEBIOTA2017
18) Sample         18  40151612008,,17562,BIOTA
     Datafile          032218018
     Method            GEBIOTA2017
19) Sample         19  40151612009,,17562,BIOTA
     Datafile          032218019

   Last Modified: Thu Mar 22 12:17:53 2018                    Page:  1
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Signed 3/26/18 Date Signed 3/26/18 Date

```
      Method              GEBIOTA2017
20) Sample          20  40151612010,,17562,BIOTA
      Datafile            032218020
      Method              GEBIOTA2017
21) Sample          21  40151612011,,17562,BIOTA
      Datafile            032218021
      Method              GEBIOTA2017
22) Sample          22  40151612012,,17562,BIOTA
      Datafile            032218022
      Method              GEBIOTA2017
23) Sample          23  40151612013,,17562,BIOTA
      Datafile            032218023
      Method              GEBIOTA2017
24) Sample          24  40151612014,,17562,BIOTA
      Datafile            032218024
      Method              GEBIOTA2017
25) Sample          25  40151612015,,17562,BIOTA
      Datafile            032218025
      Method              GEBIOTA2017
26) Sample          26  40151612016,,17562,BIOTA
      Datafile            032218026
      Method              GEBIOTA2017
27) Sample          27  40151612017,,17562,BIOTA
      Datafile            032218027
      Method              GEBIOTA2017
28) Sample          28  1221-CCV,185538:1,17498,AR122 OK
      Datafile            032218028
      Method              GEBIOTA2017
29) Sample          29  1221-CCV,185538:1,17498,AR122 OK
      Datafile            032218029
      Method              GEBIOTA2017
30) Sample          30  1661581,,17562,BIOTA
      Datafile            032218030
      Method              GEBIOTA2017
31) Sample          31  40151612018,,17562,BIOTA
      Datafile            032218031
      Method              GEBIOTA2017
32) Sample          32  40151612019,,17562,BIOTA
      Datafile            032218032
      Method              GEBIOTA2017
33) Sample          33  40151612020,,17562,BIOTA
      Datafile            032218033
      Method              GEBIOTA2017
34) Sample          34  1232-CCV,185539:1,17498,AR123 OK
      Datafile            032218034
      Method              GEBIOTA2017
35) Sample          35  1232-CCV,185539:1,17498,AR123 OK
      Datafile            032218035
      Method              GEBIOTA2017
```

Screenes : 40GCSI 03/22/18

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Read and Understood By

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

Standard Log Report

Standards Log Information for Standard #191930

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/21/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/21/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191930

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

Composed of Information for Standard #191930

Composed of Standard Seq	Volume	Units
190949	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #190952

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190952

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #190949

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190949

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #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 #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

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 #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

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

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

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

Composed of Information for Standard #185537

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

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

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

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

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

Composed of Information for Standard #185536

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

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

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

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

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

Composed of Information for Standard #185535

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

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

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

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

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

Composed of Information for Standard #185534

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

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

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

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

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

Composed of Information for Standard #185533

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

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

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

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

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

Composed of Information for Standard #185530

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

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

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

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

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

Composed of Information for Standard #185529

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

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

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

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

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

Composed of Information for Standard #185528

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

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

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

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

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

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

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

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

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

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

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

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

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

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

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

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

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

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

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

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

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

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

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #172034

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

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

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

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

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

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Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

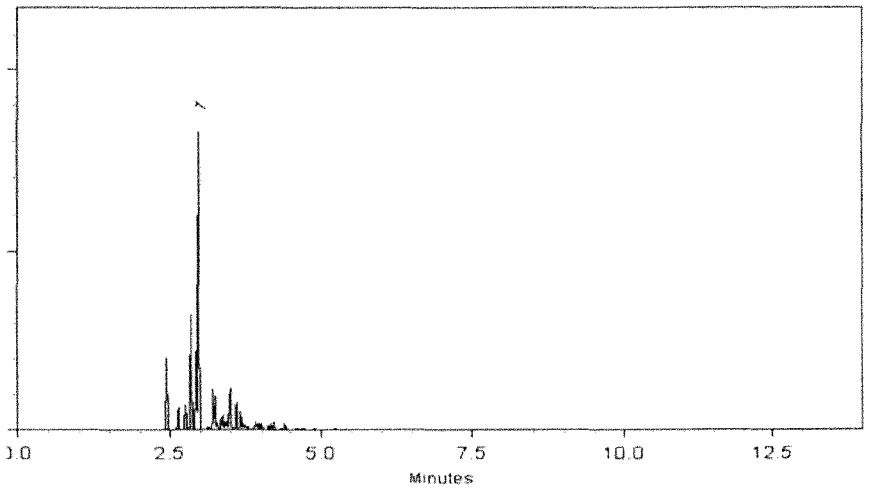
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

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

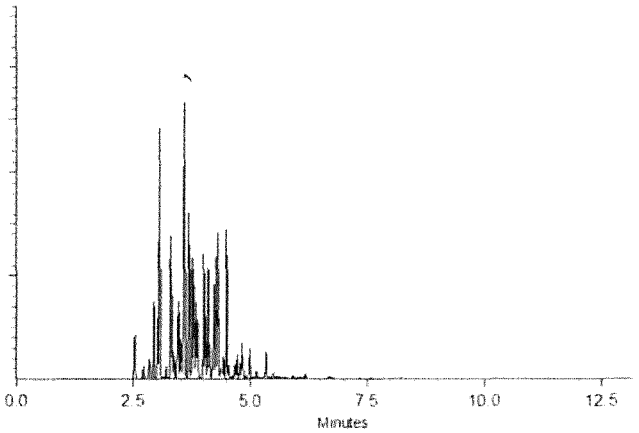
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.7706 µg/mL	Unstressed
	Purity ----%		+/- 41.4958 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

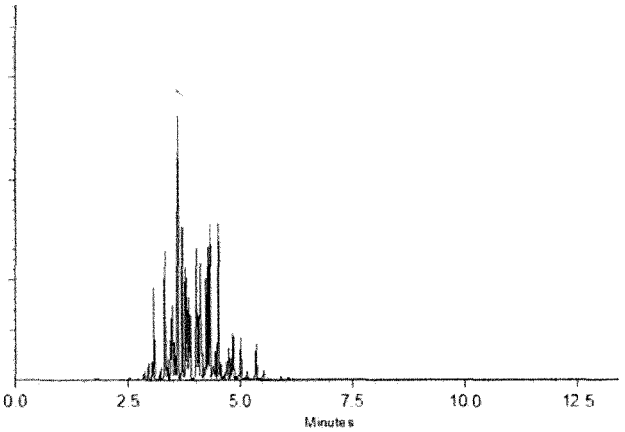
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By --

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

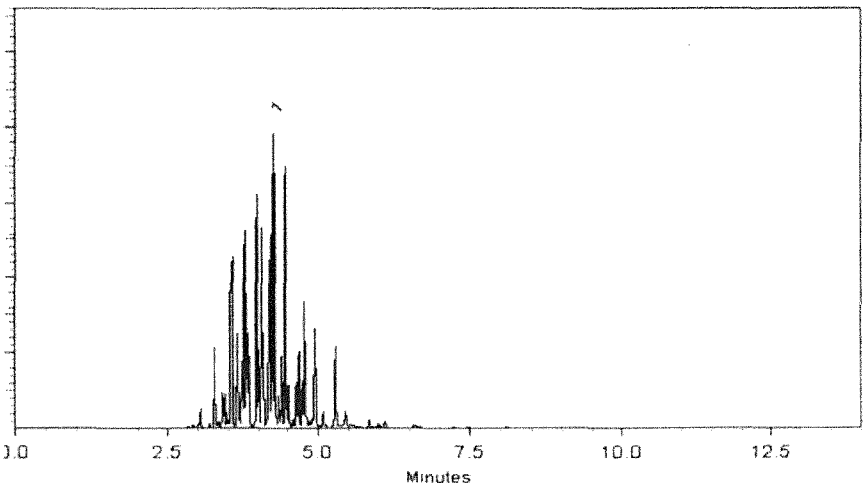
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

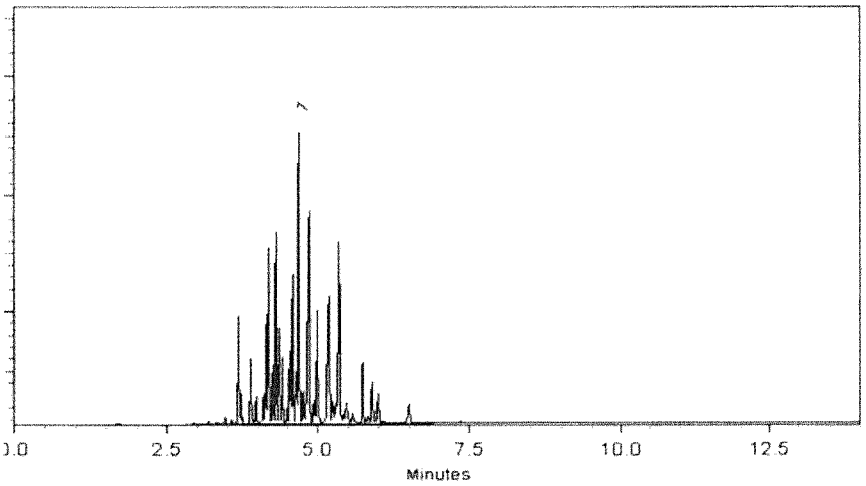
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

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

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

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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)

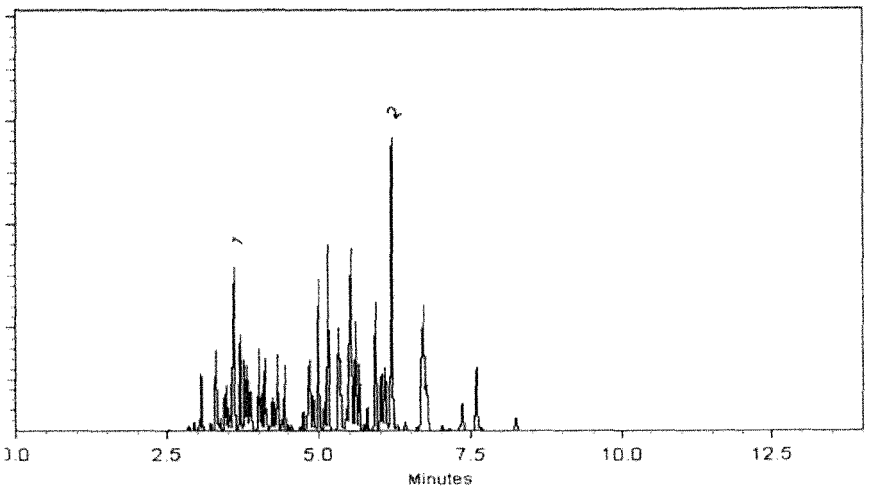
Carrier Gas:
helium-constant pressure 20 psi.

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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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

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Best Before:	10-Nov-2018

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for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

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

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

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

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

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

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

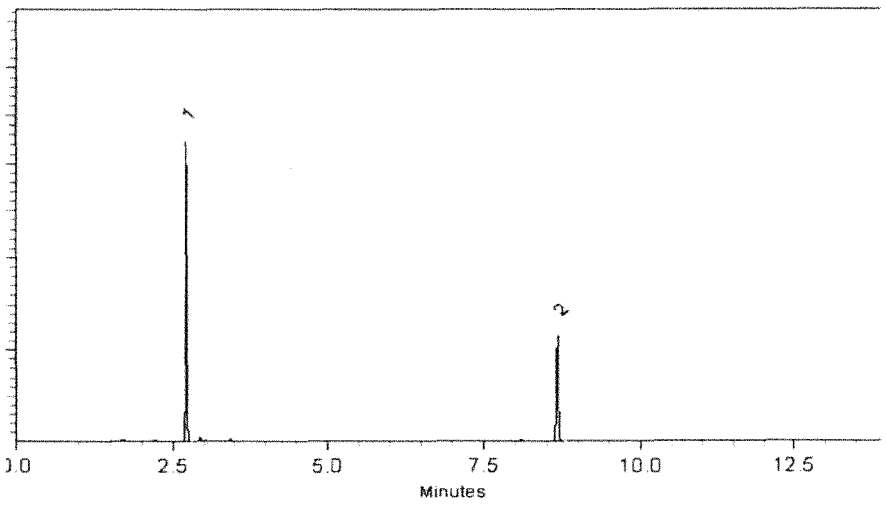
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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

o2si smart solutions®

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

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron
Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

RESTEK® CERTIFIED REFERENCE MATERIAL

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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)

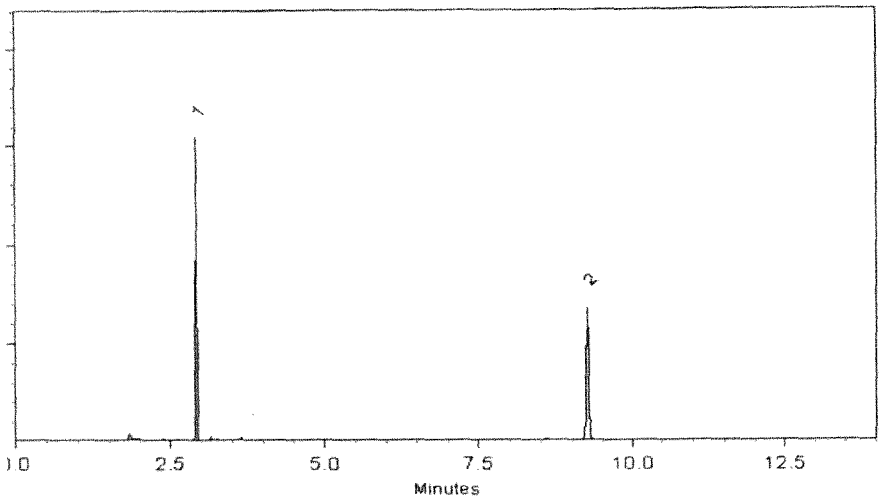
Carrier Gas:
helium-constant pressure 20 psi.

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
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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

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-YP-20

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.46		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-18

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.99		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.56		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.61		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.87		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.83		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.89		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.77		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.83		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.83		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.53		%	1	03/21/2018 09:24

SAMPLE NO.

FD1-170613-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151612020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.45		%	1	03/21/2018 09:24

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 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	1661681	C
Lipid									<0.030	U

SAMPLE NO.

1661684DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151612 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.83	0.71	16

Prep Log Report

Batch Information: OEXT 283884 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 12:49				

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	**1661681**	Y	-0.06500	03/21/2018 09:24:27		10	5	1	0.929	0.9277	M	
LIPID	BLANK	**1661682**	Y	-0.06000	03/21/2018 09:24:27		10	5	1	0.9272	0.926	M	
LIPID	PS	**40151612001**	Y	0.4611	03/21/2018 09:24:27		9.9772	5	1	0.9284	0.9376	M	
LIPID	PS	**40151612002**	Y	1.265	03/21/2018 09:24:27		10.0024	5	1	0.9281	0.9534	M	
LIPID	PS	**40151612003**	Y	1.210	03/21/2018 09:24:27		9.9979	5	1	0.9271	0.9513	M	
LIPID	PS	**40151612004**	Y	0.9915	03/21/2018 09:24:27		9.9851	5	1	0.9252	0.945	M	
LIPID	PS	**40151612005**	Y	0.5605	03/21/2018 09:24:27		9.9907	5	1	0.9258	0.937	M	
LIPID	PS	**40151612006**	Y	0.6110	03/21/2018 09:24:27		9.983	5	1	0.9239	0.9361	M	
LIPID	PS	**40151612007**	Y	1.292	03/21/2018 09:24:27		9.9883	5	1	0.9244	0.9502	M	
LIPID	PS	**40151612008**	Y	1.136	03/21/2018 09:24:27		9.9947	5	1	0.9235	0.9462	M	
LIPID	PS	**40151612009**	Y	0.8686	03/21/2018 09:24:27		10.0163	5	1	0.9221	0.9395	M	
LIPID	PS	**40151612010**	Y	0.8280	03/21/2018 09:24:27		9.9635	5	1	0.9202	0.9367	M	
LIPID	PS	**40151612011**	Y	0.8891	03/21/2018 09:24:27		10.0106	5	1	0.9246	0.9424	M	
LIPID	PS	**40151612012**	Y	1.002	03/21/2018 09:24:27		10.0322	5	1	0.9274	0.9475	M	
LIPID	PS	**40151612013**	Y	0.7677	03/21/2018 09:24:27		10.0303	5	1	0.9298	0.9452	M	
LIPID	PS	**40151612014**	Y	1.072	03/21/2018 09:24:27		10.0281	5	1	0.9243	0.9458	M	
LIPID	PS	**40151612015**	Y	0.8319	03/21/2018 09:24:27		9.9768	5	1	0.9286	0.9452	M	
LIPID	PS	**40151612016**	Y	0.9968	03/21/2018 09:24:27		10.0324	5	1	0.9266	0.9466	M	
LIPID	RQS	**40151612017**	Y	0.8339	03/21/2018 09:24:27		10.0135	5	1	0.9288	0.9455	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	DUP	**1661684**	Y	0.7090	03/21/2018 09:24:27		10.0138	5	1	0.9293	0.9435	M	
LIPID	PS	**40151612018**	Y	1.525	03/21/2018 09:24:27		10.0007	5	1	0.9233	0.9538	M	
LIPID	PS	**40151612019**	Y	0.5296	03/21/2018 09:24:27		10.0084	5	1	0.9227	0.9333	M	
LIPID	PS	**40151612020**	Y	0.4454	03/21/2018 09:24:27		9.9904	5	1	0.9281	0.937	M	
LIPID	MS	**1682456**	Y	0.6544	03/21/2018 09:24:27		10.0089	5	1	.9304	0.9435	M	

40151612

Client Name: GE
Project #: 40151612
Sample Type: Fish
Date/Time Removed to Thaw: 03-14-18
Date/Time Prepped: 03-15-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG2T / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	A	F	Y	158.4	Y	M	62.7	Left / Both	Y	9AG	1	Y	59.5	C	
2	A	F	Y	109.4	Y	M	48.0	Left / Both	Y	9AG	1	Y	48.0	C	
3	A	F	Y	111.3	Y	M	42.9	Left / Both	Y	9AG	1	Y	41.6	C	
4	A	F	Y	168.9	Y	M	41.5	Left / Both	Y	9AG	1	Y	40.2	C	
5	A	F	Y	98.0	Y	M	41.3	Left / Both	Y	9AG	1	Y	39.1	C	
6	A	F	Y	122.3	Y	M	48.7	Left / Both	Y	9AG	1	Y	45.7	C	
7	A	F	Y	191.5	Y	M	46.2	Left / Both	Y	9AG	1	Y	46.0	C	
8	A	F	Y	168.3	Y	M	65.2	Left / Both	Y	9AG	1	Y	61.9	C	
9	A	F	Y	98.1	Y	M	41.5	Left / Both	Y	9AG	1	Y	40.5	C	
10	A	F	Y	92.8	Y	M	39.2	Left / Both	Y	9AG	1	Y	38.4	C	
11	A	F	Y	105.7	Y	M	47.0	Left / Both	Y	9AG	1	Y	45.6	C	
12	A	F	Y	129.8	Y	M	57.8	Left / Both	Y	9AG	1	Y	56.4	C	
13	A	F	Y	63.3	Y	M	23.8	Left / Both	Y	9AG	1	Y	23.1	C	
14	A	F	Y	115.8	Y	M	51.1	Left / Both	Y	9AG	1	Y	49.7	C	
15	A	F	Y	92.4	Y	M	37.8	Left / Both	Y	9AG	1	Y	36.4	C	
16	A	F	Y	156.6	Y	M	64.4	Left / Both	Y	9AG	1	Y	63.2	C	
17	A	F	Y	224.9	Y	M	55.6	Left / Both	Y	9AG	1	Y	53.9	C	
18	A	F	Y	135.9	Y	M	54.2	Left / Both	Y	9AG	1	Y	54.0	C	
19	A	F	Y	78.3	Y	M CWN 03-15	~~31.8~~ 32.0	Left / Both	Y	9AG	1	Y	32.0	C	
20	A	F	Y	81.0	Y	M	36.1	Left / Both	Y	9AG	1	Y	34.2	C	

CWN 03-15-18

(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