Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40150294

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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 M
Pace Project No.: 40150294

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 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 M
Pace Project No.: 40150294

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 M
Pace Project No.: 40150294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150294001	**CS1-170518-01-BB-20**	Tissue	05/18/17 14:20	05/19/17 10:05
40150294002	**CS1-170518-01-BB-19**	Tissue	05/18/17 14:19	05/19/17 10:05
40150294003	**CS1-170518-01-BB-18**	Tissue	05/18/17 14:18	05/19/17 10:05
40150294004	**CS1-170518-01-BB-17**	Tissue	05/18/17 14:16	05/19/17 10:05
40150294005	**CS1-170518-01-BB-16**	Tissue	05/18/17 14:15	05/19/17 10:05
40150294006	**CS1-170518-01-BB-15**	Tissue	05/18/17 14:14	05/19/17 10:05
40150294007	**CS1-170518-01-BB-14**	Tissue	05/18/17 14:13	05/19/17 10:05
40150294008	**CS1-170518-01-BB-13**	Tissue	05/18/17 14:12	05/19/17 10:05
40150294009	**CS1-170518-01-BB-12**	Tissue	05/18/17 14:11	05/19/17 10:05
40150294010	**CS1-170518-01-BB-11**	Tissue	05/18/17 14:09	05/19/17 10:05
40150294011	**CS1-170518-01-BB-10**	Tissue	05/18/17 14:08	05/19/17 10:05
40150294012	**CS1-170518-01-BB-09**	Tissue	05/18/17 14:07	05/19/17 10:05
40150294013	**CS1-170518-01-BB-08**	Tissue	05/18/17 14:06	05/19/17 10:05
40150294014	**CS1-170518-01-BB-07**	Tissue	05/18/17 14:04	05/19/17 10:05
40150294015	**CS1-170518-01-BB-06**	Tissue	05/18/17 14:03	05/19/17 10:05
40150294016	**CS1-170518-01-BB-05**	Tissue	05/18/17 14:02	05/19/17 10:05
40150294017	**CS1-170518-01-BB-04**	Tissue	05/18/17 13:57	05/19/17 10:05
40150294018	**CS1-170518-01-BB-03**	Tissue	05/18/17 13:52	05/19/17 10:05
40150294019	**CS1-170518-01-BB-02**	Tissue	05/18/17 13:51	05/19/17 10:05
40150294020	**CS1-170518-01-BB-01**	Tissue	05/18/17 13:50	05/19/17 10:05

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40150294001	CS1-170518-01-BB-20	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294002	CS1-170518-01-BB-19	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294003	CS1-170518-01-BB-18	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294004	CS1-170518-01-BB-17	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294005	CS1-170518-01-BB-16	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294006	CS1-170518-01-BB-15	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294007	CS1-170518-01-BB-14	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294008	CS1-170518-01-BB-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294009	CS1-170518-01-BB-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294010	CS1-170518-01-BB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294011	CS1-170518-01-BB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294012	CS1-170518-01-BB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294013	CS1-170518-01-BB-08	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294014	**CS1-170518-01-BB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294015	**CS1-170518-01-BB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294016	**CS1-170518-01-BB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294017	**CS1-170518-01-BB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294018	**CS1-170518-01-BB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294019	**CS1-170518-01-BB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150294020	**CS1-170518-01-BB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

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:

Batch Comments:

Sample was re-extracted due to failing batch QC.
- QC Batch: 282889

Analyte Comments:

QC Batch: 282714

1q: Sample was re-analyzed due to incorrect dilution.
- CS1-170518-01-BB-11 (Lab ID: 40150294010)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

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 M
Pace Project No.: 40150294

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 M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-20 **Lab ID: 40150294001** Collected: 05/18/17 14:20 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 14:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**147**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**116**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**166**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	11096-82-5	
PCB, Total	**428**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 14:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/08/18 07:45	03/09/18 14:43	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	03/08/18 07:45	03/09/18 14:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.67**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-19 **Lab ID: 40150294002** Collected: 05/18/17 14:19 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 14:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**120**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**67.6**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**66.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	11096-82-5	
PCB, Total	**255**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 14:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/08/18 07:45	03/09/18 14:58	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/08/18 07:45	03/09/18 14:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-18 **Lab ID: 40150294003** Collected: 05/18/17 14:18 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 15:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**56.8**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**33.6J**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**42.1J**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	11096-82-5	
PCB, Total	**133**	ug/kg	49.8	11.4	1	03/08/18 07:45	03/09/18 15:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/08/18 07:45	03/09/18 15:14	877-09-8	
Decachlorobiphenyl (S)	77	%	60-140		1	03/08/18 07:45	03/09/18 15:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-17 **Lab ID: 40150294004** Collected: 05/18/17 14:16 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 15:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**168**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**76.0**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**57.1**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	11096-82-5	
PCB, Total	**301**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/08/18 07:45	03/09/18 15:30	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		1	03/08/18 07:45	03/09/18 15:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		03/09/18 08:05		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-16 **Lab ID: 40150294005** Collected: 05/18/17 14:15 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 15:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**119**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**66.7**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**86.7**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	11096-82-5	
PCB, Total	**272**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 15:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	03/08/18 07:45	03/09/18 15:46	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 15:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-15 **Lab ID: 40150294006** Collected: 05/18/17 14:14 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 16:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**199**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**110**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**106**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	11096-82-5	
PCB, Total	**415**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 16:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	03/08/18 07:45	03/09/18 16:02	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/08/18 07:45	03/09/18 16:02	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-14 **Lab ID: 40150294007** Collected: 05/18/17 14:13 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 16:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**225**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**120**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**108**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	11096-82-5	
PCB, Total	**452**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 16:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	03/08/18 07:45	03/09/18 16:18	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/08/18 07:45	03/09/18 16:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:51		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-13 **Lab ID: 40150294008** Collected: 05/18/17 14:12 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 17:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**218**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**109**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**85.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	11096-82-5	
PCB, Total	**412**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 17:05	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	03/08/18 07:45	03/09/18 17:05	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**I**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-12 **Lab ID: 40150294009** Collected: 05/18/17 14:11 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 17:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**75.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**43.7J**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**81.1**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	11096-82-5	
PCB, Total	**200**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 17:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 17:21	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/08/18 07:45	03/09/18 17:21	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.81**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-11 **Lab ID: 40150294010** Collected: 05/18/17 14:09 Received: 05/19/17 10:05 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**220**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**293**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**148**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	11096-82-5	
PCB, Total	**661**	ug/kg	100	22.8	2	03/08/18 07:45	03/20/18 13:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		2	03/08/18 07:45	03/20/18 13:51	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		2	03/08/18 07:45	03/20/18 13:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-10 **Lab ID: 40150294011** Collected: 05/18/17 14:08 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 17:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**109**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**52.1**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**53.7**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	11096-82-5	
PCB, Total	**215**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 17:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 17:53	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/08/18 07:45	03/09/18 17:53	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-09 **Lab ID: 40150294012** Collected: 05/18/17 14:07 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 18:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**174**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**99.3**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**89.2**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	11096-82-5	
PCB, Total	**363**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	03/08/18 07:45	03/09/18 18:09	877-09-8	
Decachlorobiphenyl (S)	83	%	60-140		1	03/08/18 07:45	03/09/18 18:09	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-08 **Lab ID: 40150294013** Collected: 05/18/17 14:06 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 18:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**143**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**109**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**126**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	11096-82-5	
PCB, Total	**377**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/08/18 07:45	03/09/18 18:24	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/08/18 07:45	03/09/18 18:24	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-07 **Lab ID: 40150294014** Collected: 05/18/17 14:04 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 18:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**186**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**113**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**106**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	11096-82-5	
PCB, Total	**405**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 18:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	03/08/18 07:45	03/09/18 18:40	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/08/18 07:45	03/09/18 18:40	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-06 **Lab ID: 40150294015** Collected: 05/18/17 14:03 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 18:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**108**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**73.3**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**117**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	11096-82-5	
PCB, Total	**298**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 18:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 18:56	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/08/18 07:45	03/09/18 18:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-05 **Lab ID: 40150294016** Collected: 05/18/17 14:02 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 19:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**225**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**129**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**128**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	11096-82-5	
PCB, Total	**483**	ug/kg	49.9	11.4	1	03/08/18 07:45	03/09/18 19:28	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	03/08/18 07:45	03/09/18 19:28	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 19:28	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-04 **Lab ID: 40150294017** Collected: 05/18/17 13:57 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 20:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**86.1**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**63.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**139**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	11096-82-5	
PCB, Total	**289**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 20:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/08/18 07:45	03/09/18 20:15	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/08/18 07:45	03/09/18 20:15	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-03 **Lab ID: 40150294018** Collected: 05/18/17 13:52 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 20:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**21.5J**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.6J**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**70.4**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	11096-82-5	
PCB, Total	**112**	ug/kg	50.2	11.4	1	03/08/18 07:45	03/09/18 20:31	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/08/18 07:45	03/09/18 20:31	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/08/18 07:45	03/09/18 20:31	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**I**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-02 **Lab ID: 40150294019** Collected: 05/18/17 13:51 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 20:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**186**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**115**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**114**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	11096-82-5	
PCB, Total	**416**	ug/kg	50.1	11.4	1	03/08/18 07:45	03/09/18 20:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/08/18 07:45	03/09/18 20:47	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/08/18 07:45	03/09/18 20:47	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		03/09/18 08:05		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Sample: CS1-170518-01-BB-01 **Lab ID: 40150294020** Collected: 05/18/17 13:50 Received: 05/19/17 10:05 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	03/08/18 07:45	03/09/18 21:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**30.5J**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**19.4J**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**25.7J**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	11096-82-5	
PCB, Total	**75.7**	ug/kg	50.0	11.4	1	03/08/18 07:45	03/09/18 21:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/08/18 07:45	03/09/18 21:03	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/08/18 07:45	03/09/18 21:03	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/15/18 15:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.71**	%	0.030	0.030	1		03/09/18 08:05		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

QC Batch: 282714 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40150294001, 40150294002, 40150294003, 40150294004, 40150294005, 40150294006, 40150294007, 40150294008, 40150294009, 40150294010, 40150294011, 40150294012, 40150294013, 40150294014, 40150294015, 40150294016, 40150294017, 40150294018, 40150294019, 40150294020

METHOD BLANK: 1656282 | Matrix: Tissue
Associated Lab Samples: 40150294001, 40150294002, 40150294003, 40150294004, 40150294005, 40150294006, 40150294007, 40150294008, 40150294009, 40150294010, 40150294011, 40150294012, 40150294013, 40150294014, 40150294015, 40150294016, 40150294017, 40150294018, 40150294019, 40150294020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/09/18 13:55	
Decachlorobiphenyl (S)	%	80	60-140		03/09/18 13:55	
Tetrachloro-m-xylene (S)	%	75	60-140		03/09/18 13:55	

LABORATORY CONTROL SAMPLE: 1656283

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	213	85	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)	%			79	60-140	
Tetrachloro-m-xylene (S)	%			72	60-140	

MATRIX SPIKE SAMPLE: 1656284

Parameter	Units	40150294015 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	266	107	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	108		244			
PCB-1254 (Aroclor 1254)	ug/kg	73.3		89.4			
PCB-1260 (Aroclor 1260)	ug/kg	117		98.7			
Decachlorobiphenyl (S)	%				88	60-140	
Tetrachloro-m-xylene (S)	%				93	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

SAMPLE DUPLICATE: 1656285

Parameter	Units	40150294015 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	108	96.6	11	40	
PCB-1254 (Aroclor 1254)	ug/kg	73.3	66.6	10	40	
PCB-1260 (Aroclor 1260)	ug/kg	117	108	8	40	
Decachlorobiphenyl (S)	%	88	92	5		
Tetrachloro-m-xylene (S)	%	89	91	2		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

QC Batch: 282883 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40150294001, 40150294002, 40150294003, 40150294004, 40150294005, 40150294006, 40150294007, 40150294008, 40150294009, 40150294010, 40150294011, 40150294012, 40150294013, 40150294014, 40150294015, 40150294016, 40150294017, 40150294018, 40150294019, 40150294020

METHOD BLANK: 1656999 | Matrix: Tissue
Associated Lab Samples: 40150294001, 40150294002, 40150294003, 40150294004, 40150294005, 40150294006, 40150294007, 40150294008, 40150294009, 40150294010, 40150294011, 40150294012, 40150294013, 40150294014, 40150294015, 40150294016, 40150294017, 40150294018, 40150294019, 40150294020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/09/18 08:05	

MATRIX SPIKE SAMPLE: 1682441

Parameter	Units	40150294015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.1		1.0			

SAMPLE DUPLICATE: 1657000

Parameter	Units	40150294015 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.1	1.0	11	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.

REPORT OF LABORATORY ANALYSIS

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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 M
Pace Project No.: 40150294

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.

BATCH QUALIFIERS

Batch: 282889

[1] Sample was re-extracted due to failing batch QC.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150294001	**CS1-170518-01-BB-20**	EPA 3541	282714	EPA 8082A Mod	282889
40150294002	**CS1-170518-01-BB-19**	EPA 3541	282714	EPA 8082A Mod	282889
40150294003	**CS1-170518-01-BB-18**	EPA 3541	282714	EPA 8082A Mod	282889
40150294004	**CS1-170518-01-BB-17**	EPA 3541	282714	EPA 8082A Mod	282889
40150294005	**CS1-170518-01-BB-16**	EPA 3541	282714	EPA 8082A Mod	282889
40150294006	**CS1-170518-01-BB-15**	EPA 3541	282714	EPA 8082A Mod	282889
40150294007	**CS1-170518-01-BB-14**	EPA 3541	282714	EPA 8082A Mod	282889
40150294008	**CS1-170518-01-BB-13**	EPA 3541	282714	EPA 8082A Mod	282889
40150294009	**CS1-170518-01-BB-12**	EPA 3541	282714	EPA 8082A Mod	282889
40150294010	**CS1-170518-01-BB-11**	EPA 3541	282714	EPA 8082A Mod	282889
40150294011	**CS1-170518-01-BB-10**	EPA 3541	282714	EPA 8082A Mod	282889
40150294012	**CS1-170518-01-BB-09**	EPA 3541	282714	EPA 8082A Mod	282889
40150294013	**CS1-170518-01-BB-08**	EPA 3541	282714	EPA 8082A Mod	282889
40150294014	**CS1-170518-01-BB-07**	EPA 3541	282714	EPA 8082A Mod	282889
40150294015	**CS1-170518-01-BB-06**	EPA 3541	282714	EPA 8082A Mod	282889
40150294016	**CS1-170518-01-BB-05**	EPA 3541	282714	EPA 8082A Mod	282889
40150294017	**CS1-170518-01-BB-04**	EPA 3541	282714	EPA 8082A Mod	282889
40150294018	**CS1-170518-01-BB-03**	EPA 3541	282714	EPA 8082A Mod	282889
40150294019	**CS1-170518-01-BB-02**	EPA 3541	282714	EPA 8082A Mod	282889
40150294020	**CS1-170518-01-BB-01**	EPA 3541	282714	EPA 8082A Mod	282889
40150294001	**CS1-170518-01-BB-20**	Pace Gender Typing	281317		
40150294002	**CS1-170518-01-BB-19**	Pace Gender Typing	281317		
40150294003	**CS1-170518-01-BB-18**	Pace Gender Typing	281317		
40150294004	**CS1-170518-01-BB-17**	Pace Gender Typing	281317		
40150294005	**CS1-170518-01-BB-16**	Pace Gender Typing	281317		
40150294006	**CS1-170518-01-BB-15**	Pace Gender Typing	281317		
40150294007	**CS1-170518-01-BB-14**	Pace Gender Typing	281317		
40150294008	**CS1-170518-01-BB-13**	Pace Gender Typing	281317		
40150294009	**CS1-170518-01-BB-12**	Pace Gender Typing	281317		
40150294010	**CS1-170518-01-BB-11**	Pace Gender Typing	281317		
40150294011	**CS1-170518-01-BB-10**	Pace Gender Typing	281317		
40150294012	**CS1-170518-01-BB-09**	Pace Gender Typing	281317		
40150294013	**CS1-170518-01-BB-08**	Pace Gender Typing	281317		
40150294014	**CS1-170518-01-BB-07**	Pace Gender Typing	281317		
40150294015	**CS1-170518-01-BB-06**	Pace Gender Typing	281317		
40150294016	**CS1-170518-01-BB-05**	Pace Gender Typing	281317		
40150294017	**CS1-170518-01-BB-04**	Pace Gender Typing	281317		
40150294018	**CS1-170518-01-BB-03**	Pace Gender Typing	281317		
40150294019	**CS1-170518-01-BB-02**	Pace Gender Typing	281317		
40150294020	**CS1-170518-01-BB-01**	Pace Gender Typing	281317		
40150294001	**CS1-170518-01-BB-20**	Pace Lipid	282883		
40150294002	**CS1-170518-01-BB-19**	Pace Lipid	282883		
40150294003	**CS1-170518-01-BB-18**	Pace Lipid	282883		
40150294004	**CS1-170518-01-BB-17**	Pace Lipid	282883		
40150294005	**CS1-170518-01-BB-16**	Pace Lipid	282883		
40150294006	**CS1-170518-01-BB-15**	Pace Lipid	282883		
40150294007	**CS1-170518-01-BB-14**	Pace Lipid	282883		
40150294008	**CS1-170518-01-BB-13**	Pace Lipid	282883		

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150294009	**CS1-170518-01-BB-12**	Pace Lipid	282883		
40150294010	**CS1-170518-01-BB-11**	Pace Lipid	282883		
40150294011	**CS1-170518-01-BB-10**	Pace Lipid	282883		
40150294012	**CS1-170518-01-BB-09**	Pace Lipid	282883		
40150294013	**CS1-170518-01-BB-08**	Pace Lipid	282883		
40150294014	**CS1-170518-01-BB-07**	Pace Lipid	282883		
40150294015	**CS1-170518-01-BB-06**	Pace Lipid	282883		
40150294016	**CS1-170518-01-BB-05**	Pace Lipid	282883		
40150294017	**CS1-170518-01-BB-04**	Pace Lipid	282883		
40150294018	**CS1-170518-01-BB-03**	Pace Lipid	282883		
40150294019	**CS1-170518-01-BB-02**	Pace Lipid	282883		
40150294020	**CS1-170518-01-BB-01**	Pace Lipid	282883		

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40150294

SSM

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170518-T11-02
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	CS1-170518-01	CS1-170518-01-BB-20	5/18/2017	14:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	002	CS1-170518-01	CS1-170518-01-BB-19	5/18/2017	14:19	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	003	CS1-170518-01	CS1-170518-01-BB-18	5/18/2017	14:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	004	CS1-170518-01	CS1-170518-01-BB-17	5/18/2017	14:16	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	005	CS1-170518-01	CS1-170518-01-BB-16	5/18/2017	14:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	006	CS1-170518-01	CS1-170518-01-BB-15	5/18/2017	14:14	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	007	CS1-170518-01	CS1-170518-01-BB-14	5/18/2017	14:13	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	008	CS1-170518-01	CS1-170518-01-BB-13	5/18/2017	14:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	009	CS1-170518-01	CS1-170518-01-BB-12	5/18/2017	14:11	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	010	CS1-170518-01	CS1-170518-01-BB-11	5/18/2017	14:09	☐	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]	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name	Print Name Susan Nylie	Print Name	Print Name
Company Anchor QEA	Company	Company Fed Ex	Company Pace	Company	Company
Date/Time 5/18/17 1600	Date/Time	Date/Time 5-19-17 1005	Date/Time 5-19-17 1005	Date/Time	Date/Time

Date Printed: 5/18/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** *TPCB-LIPD-PEST-MERCURY* **Page 1 of 2**

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170518-T11-02
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	CS1-170518-01	CS1-170518-01-BB-10	5/18/2017	14:08	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
012	012	CS1-170518-01	CS1-170518-01-BB-09	5/18/2017	14:07	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	013	CS1-170518-01	CS1-170518-01-BB-08	5/18/2017	14:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	014	CS1-170518-01	CS1-170518-01-BB-07	5/18/2017	14:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	015	CS1-170518-01	CS1-170518-01-BB-06	5/18/2017	14:03	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	016	CS1-170518-01	CS1-170518-01-BB-05	5/18/2017	14:02	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	017	CS1-170518-01	CS1-170518-01-BB-04	5/18/2017	13:57	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	018	CS1-170518-01	CS1-170518-01-BB-03	5/18/2017	13:52	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	019	CS1-170518-01	CS1-170518-01-BB-02	5/18/2017	13:51	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	020	CS1-170518-01	CS1-170518-01-BB-01	5/18/2017	13:50	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [illegible]	Signature	Signature	Signature [illegible]	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name	Print Name Susan Kilgle	Print Name	Print Name
Company Anchor QEA	Company	Company Fed Ex	Company Pace	Company	Company
Date/Time 5/18/17 1600	Date/Time	Date/Time 5-19-17 1005	Date/Time 5/19/17 1005	Date/Time	Date/Time

Date Printed: 5/18/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** *TPCB-LIPD-PEST-MERCURY* **Page 2 of 2**

40150294

Pace Analytical™

Sample Condition Upon Receipt

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

Sample Condition Upon Receipt

Client Name: Anchor QEA Project # _____

Additional Comments/Resolution: _____

SLV 5/19/17

Tracking#	temp	~~uncorrected~~
7866 1672 5985	3°C	No
7866 1672 5774	3°C	correction
7866 1672 5996	2°C	factor on
Unlegible	3°C	thermometer
" "	2°C	
7866 1672 6010	3°C	

5-19-17 SLV

Project Manager Review: _____ Date: _____

F-GB-C-031-Rev.03 (9April2015) SCUR Form

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Anchor QEA

Project # **WO#: 40150294**

40150294

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

Tracking #: _____

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

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

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

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

Cooler Temperature Uncorr: 1 /Corr: 1 **Biological Tissue is Frozen:** ☐ yes ☒ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 5-19-17
Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		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. 5-19-17 SW
-Includes date/time/ID/Analysis Matrix: B		Whole Fish 5-19-17 SW
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:

① See attached Lect 5-19-17 SW

Project Manager Review: RMW for TW **Date:** 5/19/17

F-GB-C-031-Rev.03 (9April2015) SCUR Form

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40150294
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 CS1-170518-01-BB-06 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 CS1-170518-01-BB-06 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: Sample CS1-170518-01-BB-11 was analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.

H. Reanalysis: Sample CS1-170518-01-BB-11 was initially analyzed at no dilution based on screener data; however, it required a dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the "1q" data qualifier on the final report to note the occurrence.

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

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

Signed: Leigh A Begalske Date: 04/30/18

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.: 40150294 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1656282	1656282BLANK	80	75
1656283	1656283LCS	79	72
1656284	1656284MS	88	93
1656285	1656285DUP	92	91
40150294001	CS1-170518-01-BB-20	85	87
40150294002	CS1-170518-01-BB-19	88	93
40150294003	CS1-170518-01-BB-18	77	81
40150294004	CS1-170518-01-BB-17	86	93
40150294005	CS1-170518-01-BB-16	89	91
40150294006	CS1-170518-01-BB-15	91	99
40150294007	CS1-170518-01-BB-14	94	99
40150294008	CS1-170518-01-BB-13	85	89
40150294009	CS1-170518-01-BB-12	87	89
40150294010	CS1-170518-01-BB-11	89	88
40150294011	CS1-170518-01-BB-10	88	89
40150294012	CS1-170518-01-BB-09	83	86
40150294013	CS1-170518-01-BB-08	87	85
40150294014	CS1-170518-01-BB-07	95	99
40150294015	CS1-170518-01-BB-06	88	89
40150294016	CS1-170518-01-BB-05	89	90
40150294017	CS1-170518-01-BB-04	92	93
40150294018	CS1-170518-01-BB-03	89	85
40150294019	CS1-170518-01-BB-02	93	95
40150294020	CS1-170518-01-BB-01	87	84

	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: 03/08/2018

Instrument: 40GCSJ

Lab File ID: 030918.B\030918007.D

Lab Sample ID: 1656283LCS

Date Analyzed (1): 03/09/2018

LCS Lot No: 182336

SDG No.: 40150294

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	213	85	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: 03/08/2018

Instrument: 40GCSJ

Parent Sample ID: CS1-170518-01-BB-06

Matrix Spike - Sample No: 1656284MS

Date Analyzed (1): 03/09/2018

Lab File ID: 030918.B\030918008.D

SDG No.: 40150294

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	266	107	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: 03/08/2018

Instrument 40GCSJ

Lab Sample ID: CS1-170518-01-BB-06

Duplicate Sample No: 40150294015DUP

Date Analyzed: 03/09/2018

Lab File ID: 030918.B\030918026.D

SDG No.: 40150294

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)	108	96.6	11	0-40
PCB-1254 (Aroclor 1254)	73.3	66.6	10	0-40
PCB-1260 (Aroclor 1260)	117	108	8	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1656282BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40150294 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1656282

Lab File ID: 030918.B\030918006.D Date Analyzed: 03/09/2018 Time:13:55

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1656283LCS	1656283	030918.B\030918007.D	03/09/2018 14:11
1656284MS	1656284	030918.B\030918008.D	03/09/2018 14:27
CS1-170518-01-BB-20	40150294001	030918.B\030918009.D	03/09/2018 14:43
CS1-170518-01-BB-19	40150294002	030918.B\030918010.D	03/09/2018 14:58
CS1-170518-01-BB-18	40150294003	030918.B\030918011.D	03/09/2018 15:14
CS1-170518-01-BB-17	40150294004	030918.B\030918012.D	03/09/2018 15:30
CS1-170518-01-BB-16	40150294005	030918.B\030918013.D	03/09/2018 15:46
CS1-170518-01-BB-15	40150294006	030918.B\030918014.D	03/09/2018 16:02
CS1-170518-01-BB-14	40150294007	030918.B\030918015.D	03/09/2018 16:18
CS1-170518-01-BB-13	40150294008	030918.B\030918018.D	03/09/2018 17:05
CS1-170518-01-BB-12	40150294009	030918.B\030918019.D	03/09/2018 17:21
CS1-170518-01-BB-10	40150294011	030918.B\030918021.D	03/09/2018 17:53
CS1-170518-01-BB-09	40150294012	030918.B\030918022.D	03/09/2018 18:09
CS1-170518-01-BB-08	40150294013	030918.B\030918023.D	03/09/2018 18:24
CS1-170518-01-BB-07	40150294014	030918.B\030918024.D	03/09/2018 18:40
CS1-170518-01-BB-06	40150294015	030918.B\030918025.D	03/09/2018 18:56
1656285DUP	1656285	030918.B\030918026.D	03/09/2018 19:12
CS1-170518-01-BB-05	40150294016	030918.B\030918027.D	03/09/2018 19:28
CS1-170518-01-BB-04	40150294017	030918.B\030918030.D	03/09/2018 20:15
CS1-170518-01-BB-03	40150294018	030918.B\030918031.D	03/09/2018 20:31
CS1-170518-01-BB-02	40150294019	030918.B\030918032.D	03/09/2018 20:47
CS1-170518-01-BB-01	40150294020	030918.B\030918033.D	03/09/2018 21:03
CS1-170518-01-BB-11	40150294010	032018.B\032018006.D	03/20/2018 13:51

SAMPLE NO.

CS1-170518-01-BB-20

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294001
Date Analyzed: 03/09/2018 14:43
Lab File ID: 030918.B\030918009.D
Initial wt/vol: 9.974 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)	147	
11097-69-1	PCB-1254 (Aroclor 1254)	116	
11096-82-5	PCB-1260 (Aroclor 1260)	166	
1336-36-3	PCB, Total	428	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918009.D
Lab Smp Id: 40150294001 Client Smp ID: CS1-170518-01-BB-20
Inj Date : 09-MAR-2018 14:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294001,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	13685	11307	0.826	0.01		
1.184	10067	10145	1.008	0.01		
1.430	14209	10959	0.771	0.01		
1.529	11357	7676	0.676	0.01		
2.409	20439	15857	0.776	0.02	1 Aroclor 1221	
2.485	10761275	10597050	0.985	14.30	$ 2 Tetrachloro-m-xylene	
2.786	18044	17294	0.958	0.02	1 Aroclor 1221	
2.856	19712	13739	0.697	0.02	1 Aroclor 1221	
2.976	31500	24137	0.766	0.04		
3.020	24648	24336	0.987	0.03		
3.052	9961	10884	1.093	0.01		
3.319	27353	26180	0.957	0.03		
3.344	19573	16853	0.861	0.02		
3.400	11887	9108	0.766	0.01		
3.435	28935	28594	0.988	0.03		
3.519	51669	49434	0.957	0.06		
3.648	22408	18682	0.834	0.02		
3.733	156846	144253	0.920	0.19		
3.827	643926	461732	0.717	0.82		
3.931	24091	15645	0.649	0.03		
3.996	42858	37395	0.873	0.05		
4.058	59661	50430	0.845	0.07		
4.138	34170	21087	0.617	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	423331	376133	0.889	0.53	
4.238	144177	175853	1.220	0.18	
4.261	1040974	990742	0.952	1.32	6 Aroclor 1248
4.293	2527628	2155179	0.853	3.22	
4.348	33080	25830	0.781	0.04	
4.418	501986	473248	0.943	0.63	
4.452	171760	146029	0.850	0.21	
4.547	849946	784619	0.923	1.08	6 Aroclor 1248
4.590	155940	135555	0.869	0.19	
4.616	133217	96677	0.726	0.16	
4.652	39603	33453	0.845	0.05	
4.681	146630	108521	0.740	0.18	
4.739	159354	133344	0.837	0.20	
4.769	370917	332150	0.895	0.47	
4.812	802115	750030	0.935	1.02	6 Aroclor 1248
4.847	167357	148026	0.884	0.21	
4.894	1726949	919305	0.532	2.20	6 Aroclor 1248
4.959	426954	352143	0.825	0.54	
5.004	22810	23906	1.048	0.02	
5.039	273224	237679	0.870	0.34	6 Aroclor 1248
5.059	74418	78623	1.057	0.09	
5.101	1513928	1271929	0.840	1.92	
5.159	1119121	946159	0.845	1.42	7 Aroclor 1254
5.213	1263707	1076845	0.852	1.61	
5.284	315278	301154	0.955	0.40	
5.311	618982	531107	0.858	0.78	
5.365	527883	411554	0.780	0.67	
5.408	1099552	999418	0.909	1.40	7 Aroclor 1254
5.453	3031124	2935055	0.968	3.86	
5.480	214710	213614	0.995	0.27	
5.510	1757682	1518117	0.864	2.24	7 Aroclor 1254
5.578	170141	149571	0.879	0.21	
5.604	238355	187971	0.789	0.30	
5.676	1074530	1012439	0.942	1.36	
5.710	484384	413127	0.853	0.61	
5.744	732830	598261	0.816	0.93	
5.792	2645369	2104417	0.796	3.37	
5.822	256116	215354	0.841	0.32	
5.885	481733	318468	0.661	0.61	
5.932	387772	328338	0.847	0.49	
5.995	1356999	1266715	0.933	1.72	
6.028	1103602	962347	0.872	1.40	7 Aroclor 1254
6.056	1456520	1260904	0.866	1.85	
6.121	35591	23436	0.658	0.04	
6.169	917836	608601	0.663	1.16	
6.228	236668	316971	1.339	0.30	
6.242	563951	429162	0.761	0.71	
6.301	4534029	3857245	0.851	5.77	8 Aroclor 1260
6.334	449575	411151	0.915	0.57	
6.375	190466	167440	0.879	0.24	
6.434	623094	519872	0.834	0.79	
6.510	2286836	2054791	0.899	2.91	
6.536	873070	811786	0.930	1.11	
6.561	513492	469549	0.914	0.65	
6.606	128927	119810	0.929	0.16	
6.661	158875	154334	0.971	0.20	
6.719	651515	587763	0.902	0.83	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.759	821044	747028	0.910	1.04	
6.804	658207	601801	0.914	0.83	
6.840	352184	300884	0.854	0.44	
6.914	125138	117057	0.935	0.15	
6.943	561724	537786	0.957	0.71	
7.006	2631777	2439620	0.927	3.35	8 Aroclor 1260
7.036	266867	192156	0.720	0.34	
7.121	80866	74926	0.927	0.10	
7.251	1080338	986968	0.914	1.37	8 Aroclor 1260
7.282	315967	282250	0.893	0.40	
7.343	21640	17623	0.814	0.02	
7.390	1110251	949564	0.855	1.41	
7.444	1114105	1004756	0.902	1.42	8 Aroclor 1260
7.491	52879	29801	0.564	0.06	
7.527	27317	22718	0.832	0.03	
7.550	51772	45197	0.873	0.06	
7.620	25957	13409	0.517	0.03	
7.692	256498	242045	0.944	0.32	
7.728	411860	349505	0.849	0.52	
7.763	56804	47886	0.843	0.07	
7.812	330519	218432	0.661	0.42	
7.864	24673	20281	0.822	0.03	
7.900	725300	647500	0.893	0.92	8 Aroclor 1260
7.960	126852	72158	0.569	0.16	
8.049	162193	150583	0.928	0.20	
8.252	12850	11272	0.877	0.01	
8.276	887918	791107	0.891	1.13	
8.380	19459	19267	0.990	0.02	
8.450	37765	23288	0.617	0.04	
8.502	9901	9662	0.976	0.01	
8.572	9329046	8070127	0.865	11.89	$ 12 Decachlorobiphenyl
8.702	41822	31947	0.764	0.05	
8.726	127919	102063	0.798	0.16	
8.840	13747	14248	1.036	0.01	
8.946	12968	9064	0.699	0.01	
9.055	45912	38756	0.844	0.05	
9.170	206648	181911	0.880	0.26	
9.417	9336	12647	1.355	0.01	
9.701	18210	13755	0.755	0.02	
9.740	17665	14000	0.793	0.02	
	78448783	69109645		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918009.D
Lab Smp Id: 40150294001 Client Smp ID: CS1-170518-01-BB-20
Inj Date : 09-MAR-2018 14:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294001,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	10761275	0.08728	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1040974	0.44430	220	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	849946	0.20479	100	0.00- 20.00	81.65	CO
4.812	4.812	0.000	802115	0.39511	200	0.00- 20.00	77.05	CO
4.894	4.879	0.015	1726949	0.34282	170	0.00- 20.00	165.90	CO
5.038	5.038	0.000	273224	0.07614	38	0.00- 20.00	26.25	CO
Average of Peak Concentrations =					150			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1119120	0.21377	110	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1099551	0.25565	130	0.00- 20.00	98.25	BA
5.510	5.510	0.000	1757681	0.22633	110	0.00- 20.00	157.06	BA
6.027	6.027	0.000	1103602	0.22663	110	0.00- 20.00	98.61	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4534029	0.51161	260	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	2631776	0.26280	130	0.00- 20.00	58.04	BA
7.251	7.251	0.000	1080337	0.22602	110	0.00- 20.00	23.83	BA
7.443	7.443	0.000	1114105	0.38218	190	0.00- 20.00	24.57	BA
7.900	7.901	-0.001	725299	0.27487	140	0.00- 20.00	16.00	BA
Average of Peak Concentrations =					170			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	9329046	0.08515	43			

QC Flag Legend

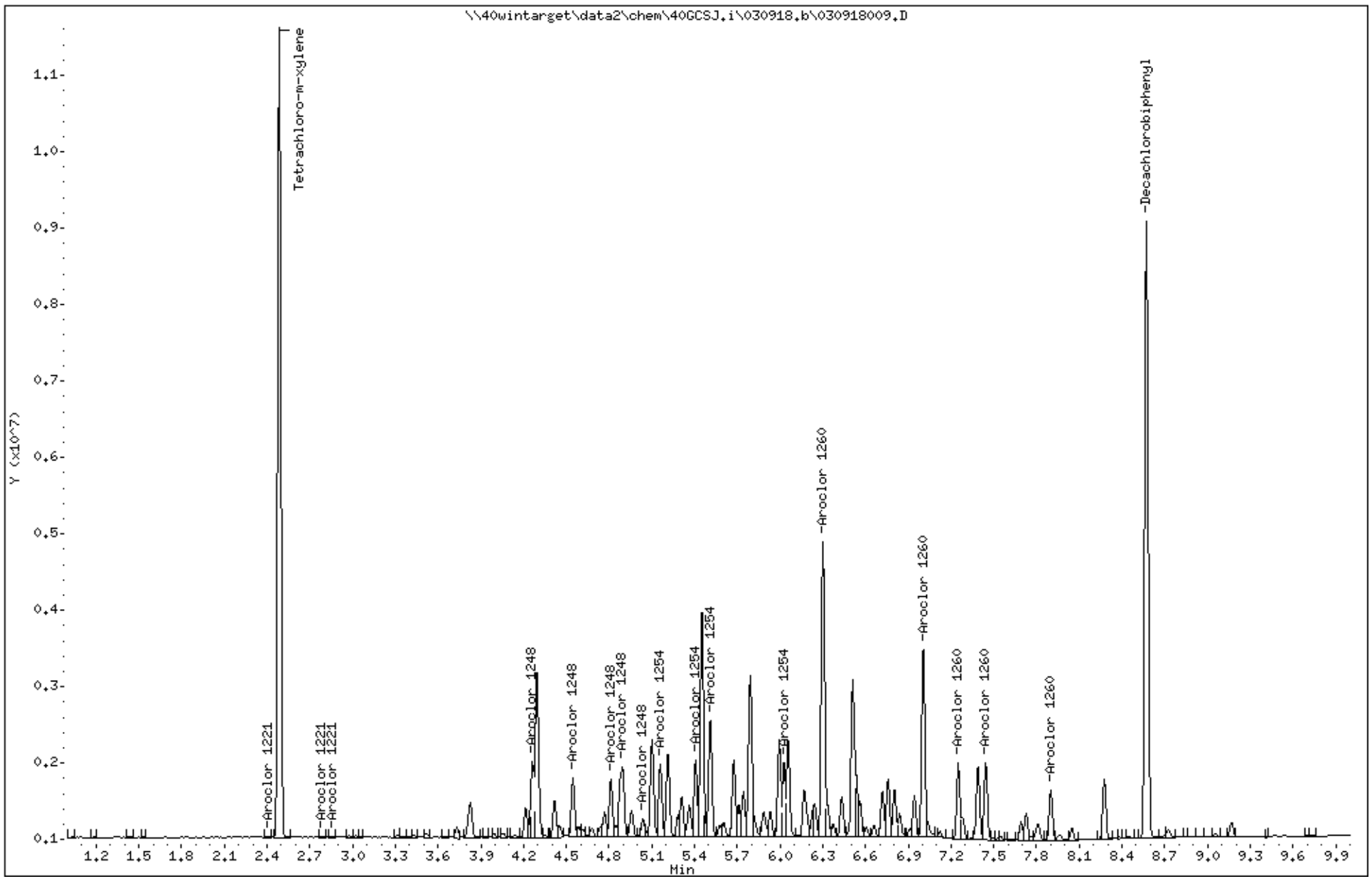
M - Compound response manually integrated.

Review Codes Legend

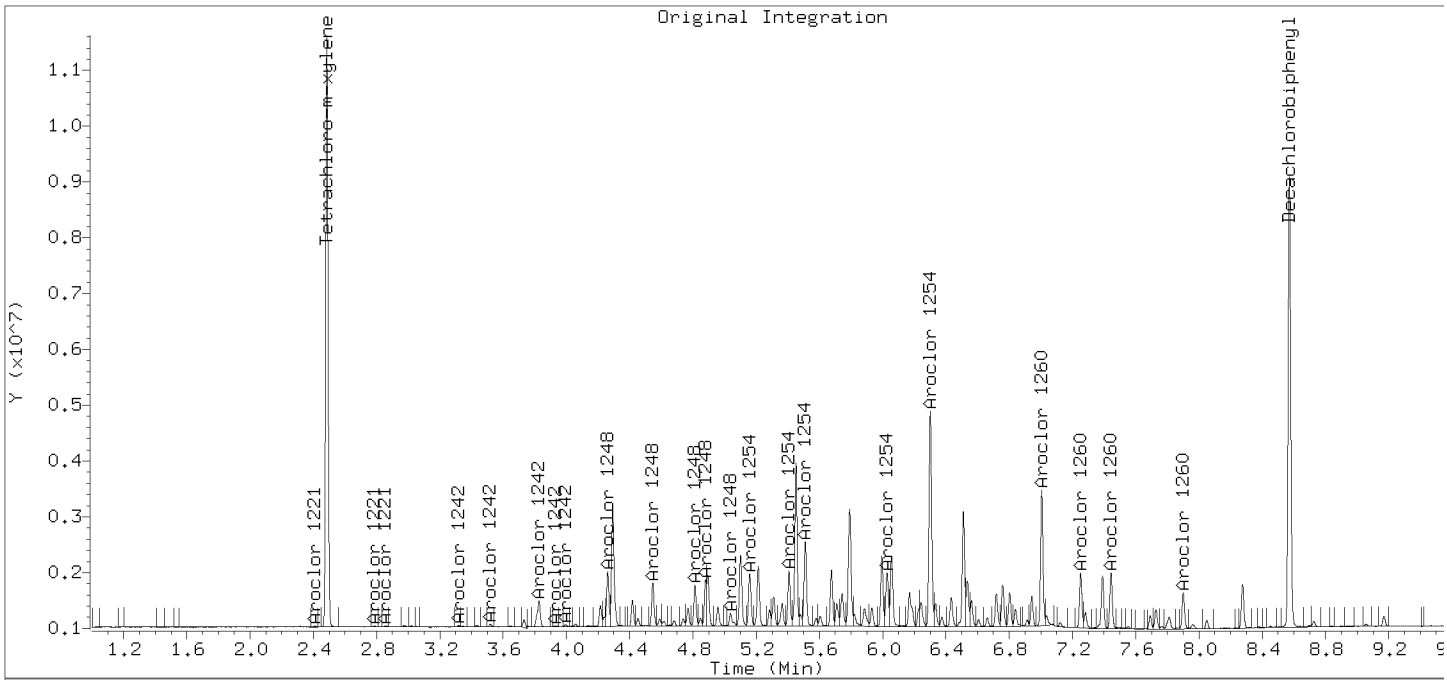
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

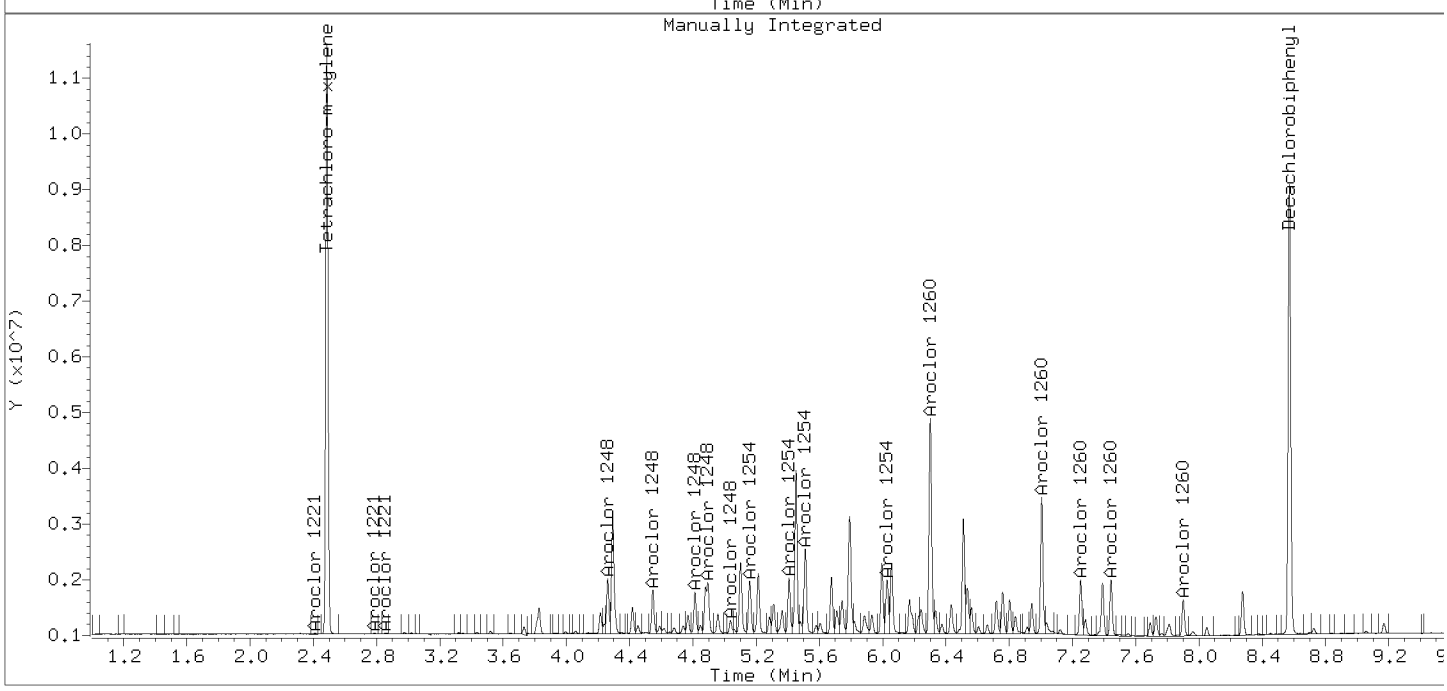
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918009.D
Date : 09-MAR-2018 14:43
Client ID: CS1-170518-01-BB-20
Sample Info: 40150294001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 14:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	27353	0	
Aroclor 1016	27353	0	
Aroclor 1016	27353	0	
Aroclor 1016	27353	0	
Aroclor 1016	27353	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	19712	0	
Aroclor 1232	19712	0	
Aroclor 1232	19712	0	
Aroclor 1232	19712	0	

Aroclor 1232	19712	0	
Aroclor 1242	27353	0	
Aroclor 1242	27353	0	
Aroclor 1242	27353	0	
Aroclor 1242	27353	0	
Aroclor 1242	27353	0	
Aroclor 1248	1025253	1040974	CO
Aroclor 1248	1025253	1040974	CO
Aroclor 1248	1025253	1040974	CO
Aroclor 1248	1025253	1040974	CO
Aroclor 1248	1025253	1040974	CO
Aroclor 1254	1090865	1119120	BA
Aroclor 1254	1090865	1119120	BA
Aroclor 1254	1090865	1119120	BA
Aroclor 1254	1090865	1119120	BA
Aroclor 1254	1090865	1119120	BA
Aroclor 1260	4529756	4534029	BA
Aroclor 1260	4529756	4534029	BA
Aroclor 1260	4529756	4534029	BA
Aroclor 1260	4529756	4534029	BA
Aroclor 1260	4529756	4534029	BA
Tetrachloro-m-xylene	10761275	10761275	
Decachlorobiphenyl	9329046	9329046	

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SAMPLE NO.

CS1-170518-01-BB-19

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294002
Date Analyzed: 03/09/2018 14:58
Lab File ID: 030918.B\030918010.D
Initial wt/vol: 10.0388 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)	120	
11097-69-1	PCB-1254 (Aroclor 1254)	67.6	
11096-82-5	PCB-1260 (Aroclor 1260)	66.4	
1336-36-3	PCB, Total	255	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918010.D
Lab Smp Id: 40150294002 Client Smp ID: CS1-170518-01-BB-19
Inj Date : 09-MAR-2018 14:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294002,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.039	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	15068	9974	0.662	0.02		
1.537	10313	9746	0.945	0.01		
1.953	11411	8322	0.729	0.02		
2.170	10166	11140	1.096	0.01		
2.295	10751	10416	0.969	0.01		
2.316	14665	15264	1.041	0.02		
2.409	42155	30812	0.731	0.07		
2.485	11485711	11184930	0.974	21.83	$ 2 Tetrachloro-m-xylene	
2.790	21785	21083	0.968	0.04		
2.854	31068	19449	0.626	0.05		
2.976	65988	51472	0.780	0.12		
3.019	46697	46973	1.006	0.08		
3.055	15486	13916	0.899	0.02		
3.318	48275	46572	0.965	0.08		
3.345	22774	23330	1.024	0.04		
3.399	10388	9577	0.922	0.01		
3.433	43286	37875	0.875	0.07		
3.519	107199	97949	0.914	0.19		
3.642	19502	17341	0.889	0.03		
3.732	220695	206286	0.935	0.40		
3.826	857439	563761	0.657	1.58		
3.902	8629	8449	0.979	0.01		
3.926	63411	33029	0.521	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.995	100522	96277	0.958	0.18	
4.057	72160	44065	0.611	0.13	
4.135	29690	17318	0.583	0.05	
4.215	573124	473073	0.825	1.05	
4.261	953384	902848	0.947	1.75	6 Aroclor 1248
4.292	1598461	1351318	0.845	2.94	
4.349	43223	24952	0.577	0.07	
4.417	488509	458702	0.939	0.90	
4.452	236460	211339	0.894	0.43	
4.545	867256	791755	0.913	1.59	6 Aroclor 1248
4.589	94605	82519	0.872	0.17	
4.617	148681	122855	0.826	0.27	
4.654	22208	23464	1.057	0.04	
4.680	91696	67125	0.732	0.16	
4.739	104621	80890	0.773	0.19	
4.768	212897	193292	0.908	0.39	
4.813	504412	470171	0.932	0.93	6 Aroclor 1248
4.847	161727	147957	0.915	0.29	
4.894	1203478	635142	0.528	2.21	6 Aroclor 1248
4.957	270533	218292	0.807	0.49	
5.000	24294	21501	0.885	0.04	
5.037	381627	352894	0.925	0.70	6 Aroclor 1248
5.057	44327	56095	1.265	0.08	
5.101	841531	722924	0.859	1.55	
5.159	671711	553167	0.824	1.23	7 Aroclor 1254
5.213	752444	629037	0.836	1.38	
5.283	155895	148455	0.952	0.28	
5.311	355742	304694	0.857	0.65	
5.362	346640	261167	0.753	0.63	
5.407	555606	501949	0.903	1.02	7 Aroclor 1254
5.450	1379905	1264263	0.916	2.54	
5.478	124102	129592	1.044	0.22	
5.510	1230727	1052623	0.855	2.26	7 Aroclor 1254
5.578	98839	80995	0.819	0.18	
5.604	173507	128720	0.742	0.31	
5.676	495989	450893	0.909	0.91	
5.710	299283	241736	0.808	0.55	
5.744	349162	266210	0.762	0.64	
5.790	1397009	1126482	0.806	2.57	
5.822	190963	146858	0.769	0.35	
5.884	271299	159381	0.587	0.50	
5.933	183305	151593	0.827	0.33	
5.994	593021	539123	0.909	1.09	
6.027	619858	556300	0.897	1.14	7 Aroclor 1254
6.056	882193	771006	0.874	1.62	
6.169	463673	259425	0.559	0.85	
6.242	371293	201663	0.543	0.68	
6.301	1981030	1627333	0.821	3.65	8 Aroclor 1260
6.333	208245	177405	0.852	0.38	
6.373	112090	81442	0.727	0.20	
6.432	314891	237832	0.755	0.58	
6.482	39057	41407	1.060	0.07	
6.509	970276	872493	0.899	1.78	
6.535	377214	350521	0.929	0.69	
6.562	249081	205928	0.827	0.45	
6.607	70224	56054	0.798	0.12	
6.661	87355	64531	0.739	0.16	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.718	354913	294199	0.829	0.65	
6.760	354791	298590	0.842	0.65	
6.803	285290	247688	0.868	0.52	
6.839	172331	143014	0.830	0.31	
6.912	60053	52965	0.882	0.11	
6.943	332888	303035	0.910	0.61	
7.005	994706	901398	0.906	1.83	8 Aroclor 1260
7.036	105870	77208	0.729	0.19	
7.122	38085	30643	0.805	0.07	
7.251	426825	370935	0.869	0.78	8 Aroclor 1260
7.282	144648	113387	0.784	0.26	
7.338	26703	20759	0.777	0.04	
7.390	403955	345100	0.854	0.74	
7.444	432881	372923	0.861	0.79	8 Aroclor 1260
7.553	46212	22412	0.485	0.08	
7.617	15096	16502	1.093	0.02	
7.627	16171	15918	0.984	0.02	
7.663	13264	14341	1.081	0.02	
7.692	92470	87392	0.945	0.17	
7.728	186429	153773	0.825	0.34	
7.764	44732	30447	0.681	0.08	
7.812	165930	102859	0.620	0.30	
7.863	26541	18771	0.707	0.04	
7.902	279113	232464	0.833	0.51	8 Aroclor 1260
7.965	52816	27475	0.520	0.09	
8.049	218496	177391	0.812	0.40	
8.274	350865	305630	0.871	0.64	
8.378	21164	16820	0.795	0.03	
8.415	14785	7368	0.498	0.02	
8.455	35671	19460	0.546	0.06	
8.571	9616795	8873505	0.923	17.73	$ 12 Decachlorobiphenyl
8.725	50995	47181	0.925	0.09	
8.948	18454	13792	0.747	0.03	
9.000	23595	12438	0.527	0.04	
9.024	11977	20543	1.715	0.02	
9.054	42555	34332	0.807	0.07	
9.169	83787	69391	0.828	0.15	
9.463	16272	12409	0.763	0.03	
9.963	26263	19673	0.749	0.04	
	54228301	47608843		100.000	

Total unknown % area = 40

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918010.D
Lab Smp Id: 40150294002 Client Smp ID: CS1-170518-01-BB-19
Inj Date : 09-MAR-2018 14:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294002,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.039	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.485	2.484	0.001	11485710	0.09316	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	953383	0.40691	200	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	867256	0.20896	100	0.00- 20.00	90.97	CO
4.813	4.812	0.001	504412	0.24847	120	0.00- 20.00	52.91	CO
4.893	4.879	0.014	1203478	0.23891	120	0.00- 20.00	126.23	CO
5.037	5.038	-0.001	381627	0.10635	53	0.00- 20.00	40.03	CO
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	671710	0.12831	64	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	555606	0.12918	64	0.00- 20.00	82.72	BA
5.510	5.510	0.000	1230727	0.15848	79	0.00- 20.00	183.22	BA
6.027	6.027	0.000	619857	0.12729	63	0.00- 20.00	92.28	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					68			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	1981029	0.22353	110	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	994705	0.09933	49	0.00- 20.00	50.21	BA
7.251	7.251	0.000	426825	0.08930	44	0.00- 20.00	21.55	BA
7.443	7.443	0.000	432881	0.14850	74	0.00- 20.00	21.85	BA
7.901	7.901	0.000	279112	0.10577	53	0.00- 20.00	14.09	BA
Average of Peak Concentrations =					66			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	9616794	0.08778	44			

QC Flag Legend

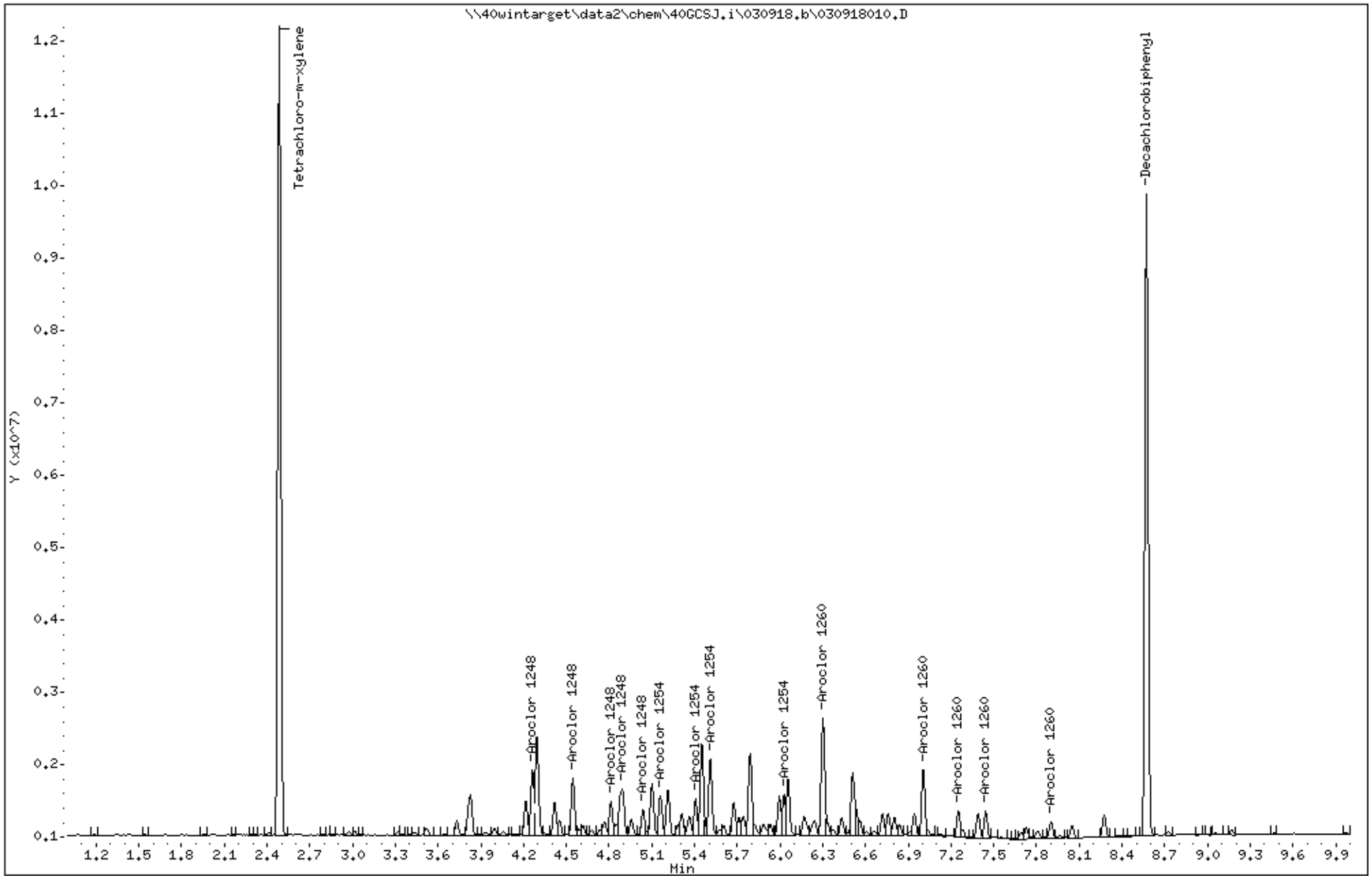
M - Compound response manually integrated.

Review Codes Legend

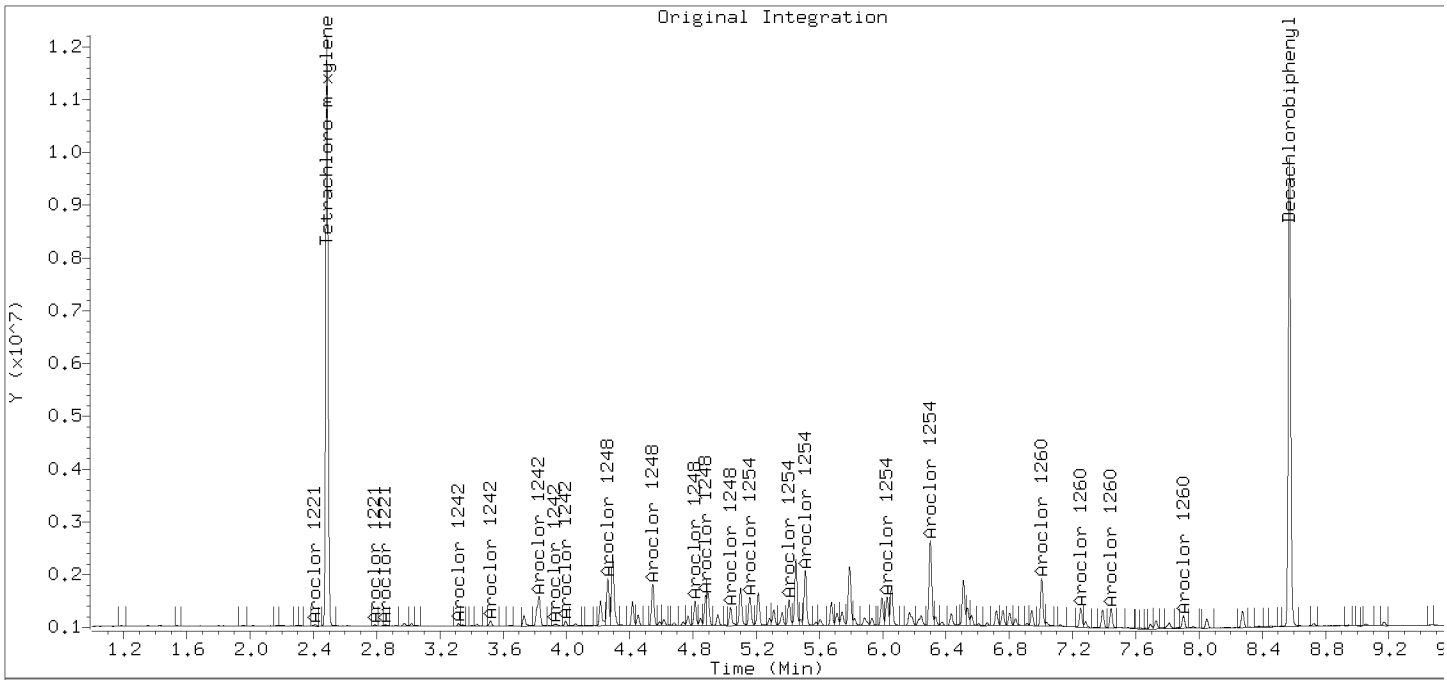
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

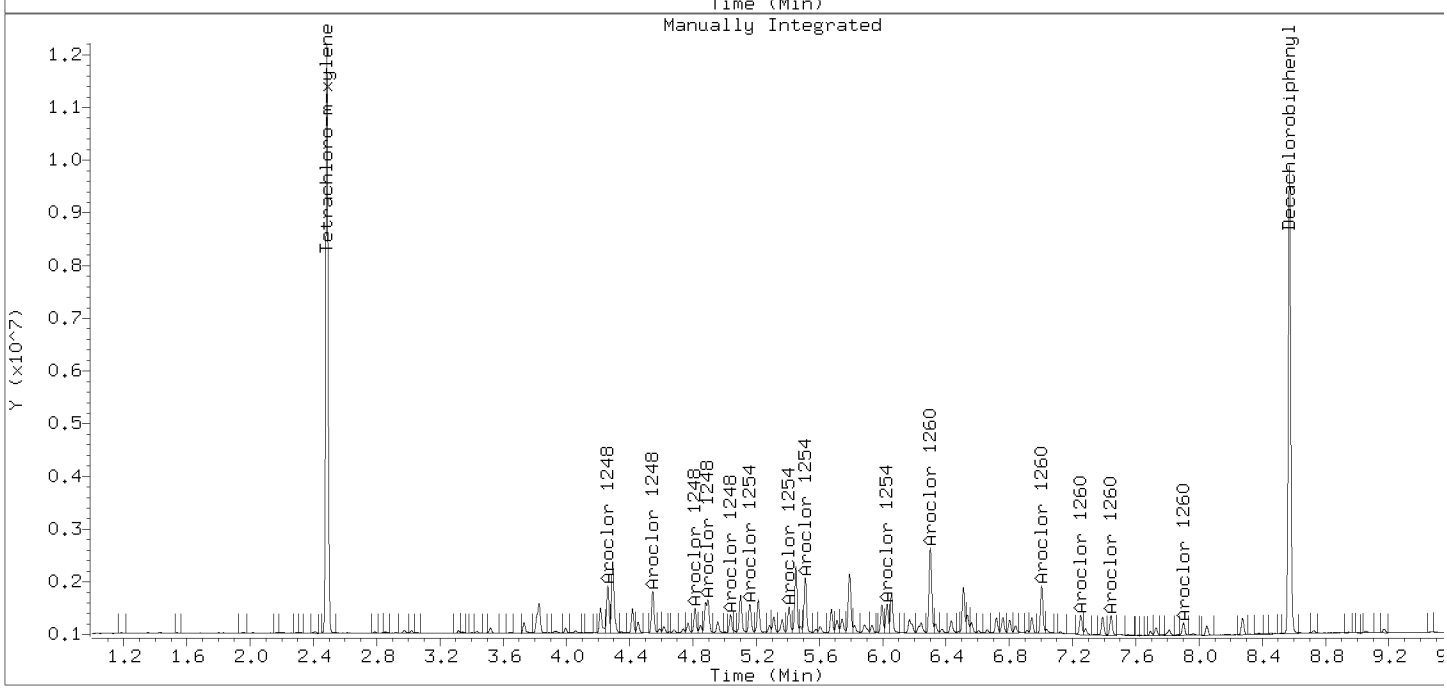
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918010.D
Date : 09-MAR-2018 14:58
Client ID: CS1-170518-01-BB-19
Sample Info: 40150294002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 14:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	48275	0	
Aroclor 1016	48275	0	
Aroclor 1016	48275	0	
Aroclor 1016	48275	0	
Aroclor 1016	48275	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	31068	0	
Aroclor 1232	31068	0	
Aroclor 1232	31068	0	
Aroclor 1232	31068	0	

Aroclor 1232	31068	0	
Aroclor 1242	48275	0	
Aroclor 1242	48275	0	
Aroclor 1242	48275	0	
Aroclor 1242	48275	0	
Aroclor 1242	48275	0	
Aroclor 1248	936984	953383	CO
Aroclor 1248	936984	953383	CO
Aroclor 1248	936984	953383	CO
Aroclor 1248	936984	953383	CO
Aroclor 1248	936984	953383	CO
Aroclor 1254	633313	671710	BA
Aroclor 1254	633313	671710	BA
Aroclor 1254	633313	671710	BA
Aroclor 1254	633313	671710	BA
Aroclor 1254	633313	671710	BA
Aroclor 1260	1935359	1981029	BA
Aroclor 1260	1935359	1981029	BA
Aroclor 1260	1935359	1981029	BA
Aroclor 1260	1935359	1981029	BA
Aroclor 1260	1935359	1981029	BA
Tetrachloro-m-xylene	11485710	11485710	
Decachlorobiphenyl	9616794	9616794	

==========

SAMPLE NO.

CS1-170518-01-BB-18

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294003
Date Analyzed: 03/09/2018 15:14
Lab File ID: 030918.B\030918011.D
Initial wt/vol: 10.0364 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)	56.8	
11097-69-1	PCB-1254 (Aroclor 1254)	33.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	42.1	J
1336-36-3	PCB, Total	133	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918011.D
Lab Smp Id: 40150294003 Client Smp ID: CS1-170518-01-BB-18
Inj Date : 09-MAR-2018 15:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294003,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	16380	12761	0.779	0.04		
1.429	11541	11509	0.997	0.03		
1.494	10185	7825	0.768	0.02		
2.128	9835	7520	0.765	0.02		
2.200	17992	10505	0.584	0.04		
2.410	31396	25995	0.828	0.08		
2.485	10036162	9631203	0.960	27.50	$ 2 Tetrachloro-m-xylene	
2.787	18867	17932	0.950	0.05		
2.856	30251	18626	0.616	0.08		
2.975	45084	36502	0.810	0.12		
3.021	33848	35603	1.052	0.09		
3.254	10725	26410	2.463	0.02		
3.319	32439	31436	0.969	0.08	5 Aroclor 1016	BA
3.345	56048	36367	0.649	0.15		
3.399	14286	13622	0.954	0.03		
3.432	44995	37966	0.844	0.12		
3.521	59756	49781	0.833	0.16	5 Aroclor 1016	BA
3.561	12868	11723	0.911	0.03		
3.650	13136	11037	0.840	0.03		
3.734	86546	73633	0.851	0.23		
3.828	341215	233218	0.683	0.91	5 Aroclor 1016	BA
3.926	34176	20353	0.596	0.09	5 Aroclor 1016	BA
3.996	50450	47107	0.934	0.13	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	40759	30102	0.739	0.10	
4.138	30118	15263	0.507	0.08	
4.216	207999	195859	0.942	0.55	
4.240	74352	88335	1.188	0.19	
4.261	415532	391908	0.943	1.11	6 Aroclor 1248
4.292	714658	606558	0.849	1.91	
4.351	10910	16262	1.491	0.02	
4.417	230348	212041	0.921	0.61	
4.454	161652	136279	0.843	0.43	
4.506	35433	19591	0.553	0.09	
4.546	401218	350563	0.874	1.07	6 Aroclor 1248
4.591	55030	45011	0.818	0.14	
4.618	125521	90750	0.723	0.33	
4.651	32318	28000	0.866	0.08	
4.680	55343	34387	0.621	0.14	
4.738	63197	42391	0.671	0.16	
4.769	126807	103952	0.820	0.33	
4.813	260487	223550	0.858	0.69	6 Aroclor 1248
4.847	94837	80164	0.845	0.25	
4.880	586009	286532	0.489	1.57	6 Aroclor 1248
4.957	145304	111187	0.765	0.38	
5.037	186001	160012	0.860	0.49	6 Aroclor 1248
5.063	54326	44179	0.813	0.14	
5.101	406087	319944	0.788	1.08	
5.160	328672	256688	0.781	0.88	7 Aroclor 1254
5.214	342447	276775	0.808	0.91	
5.283	89482	79606	0.890	0.23	
5.312	224264	183079	0.816	0.60	
5.363	223792	137041	0.612	0.59	
5.406	279315	244154	0.874	0.74	7 Aroclor 1254
5.452	1074113	1030348	0.959	2.87	
5.478	59524	63381	1.065	0.15	
5.510	601088	503441	0.838	1.61	7 Aroclor 1254
5.578	57919	43581	0.752	0.15	
5.605	126293	83399	0.660	0.33	
5.675	225731	203449	0.901	0.60	
5.709	139072	110527	0.795	0.37	
5.741	196201	140575	0.716	0.52	
5.790	727684	594368	0.817	1.95	
5.823	180492	110783	0.614	0.48	
5.884	159713	82478	0.516	0.42	
5.930	105687	83174	0.787	0.28	
5.994	322638	289313	0.897	0.86	
6.025	315874	261530	0.828	0.84	7 Aroclor 1254
6.056	369172	298099	0.807	0.98	
6.124	53419	27456	0.514	0.14	
6.170	244150	138454	0.567	0.65	
6.243	226949	110098	0.485	0.60	
6.300	1053142	868146	0.824	2.82	8 Aroclor 1260
6.333	115985	103093	0.889	0.31	
6.375	79787	50587	0.634	0.21	
6.433	192678	123678	0.642	0.51	
6.509	562057	479306	0.853	1.50	
6.536	219782	199312	0.907	0.58	
6.560	142664	111092	0.779	0.38	
6.608	37732	25551	0.677	0.10	
6.661	59985	40321	0.672	0.16	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.717	179182	137565	0.768	0.48	
6.759	198502	161634	0.814	0.53	
6.802	168004	139594	0.831	0.45	
6.839	108778	78107	0.718	0.29	
6.912	36559	32345	0.885	0.09	
6.943	275061	251443	0.914	0.73	
7.004	590484	555301	0.940	1.58	8 Aroclor 1260
7.035	40692	45502	1.118	0.10	
7.123	37159	20708	0.557	0.09	
7.251	266737	230197	0.863	0.71	8 Aroclor 1260
7.281	109189	76815	0.704	0.29	
7.337	32191	20061	0.623	0.08	
7.390	226608	212592	0.938	0.60	
7.442	308282	244547	0.793	0.82	8 Aroclor 1260
7.492	54464	22808	0.419	0.14	
7.549	33090	19658	0.594	0.08	
7.582	22244	17212	0.774	0.05	
7.621	31586	20004	0.633	0.08	
7.662	14347	16599	1.157	0.03	
7.693	59359	57582	0.970	0.15	
7.728	146679	118267	0.806	0.39	
7.763	34265	26560	0.775	0.09	
7.811	161099	91943	0.571	0.43	
7.864	13979	17638	1.262	0.03	
7.901	218419	174576	0.799	0.58	8 Aroclor 1260
7.964	47587	24419	0.513	0.12	
8.048	265112	242312	0.914	0.71	
8.274	291441	257209	0.883	0.78	
8.376	23130	14746	0.638	0.06	
8.453	15251	13190	0.865	0.04	
8.571	8404980	7461131	0.888	22.53	$ 12 Decachlorobiphenyl
8.726	46757	40092	0.857	0.12	
8.945	20227	13785	0.682	0.05	
9.057	49344	38850	0.787	0.13	
9.169	64720	54475	0.842	0.17	
9.464	13147	11099	0.844	0.03	
9.963	22975	15938	0.694	0.06	
	37301557	32370841		100.000	

Total unknown % area = 33

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918011.D
Lab Smp Id: 40150294003 Client Smp ID: CS1-170518-01-BB-18
Inj Date : 09-MAR-2018 15:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294003,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.036	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10036162	0.08140	40			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	415531	0.17735	88	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	401217	0.09667	48	0.00- 20.00	96.56	CO
4.813	4.812	0.001	260486	0.12831	64	0.00- 20.00	62.69	CO
4.879	4.879	0.000	586009	0.11633	58	0.00- 20.00	141.03	CO
5.036	5.038	-0.002	186001	0.05183	26	0.00- 20.00	44.76	CO
Average of Peak Concentrations =					57			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	328672	0.06278	31	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	279315	0.06494	32	0.00- 20.00	84.98	BA
5.509	5.510	-0.001	601088	0.07740	38	0.00- 20.00	182.88	BA
6.024	6.027	-0.003	315874	0.06487	32	0.00- 20.00	96.11	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					34			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	1053142	0.11883	59	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	590483	0.05896	29	0.00- 20.00	56.07	CO
7.250	7.251	-0.001	266736	0.05580	28	0.00- 20.00	25.33	CO
7.441	7.443	-0.002	308281	0.10575	53	0.00- 20.00	29.27	CO
7.900	7.901	-0.001	218419	0.08277	41	0.00- 20.00	20.74	CO
Average of Peak Concentrations =					42			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	8404979	0.07672	38			

QC Flag Legend

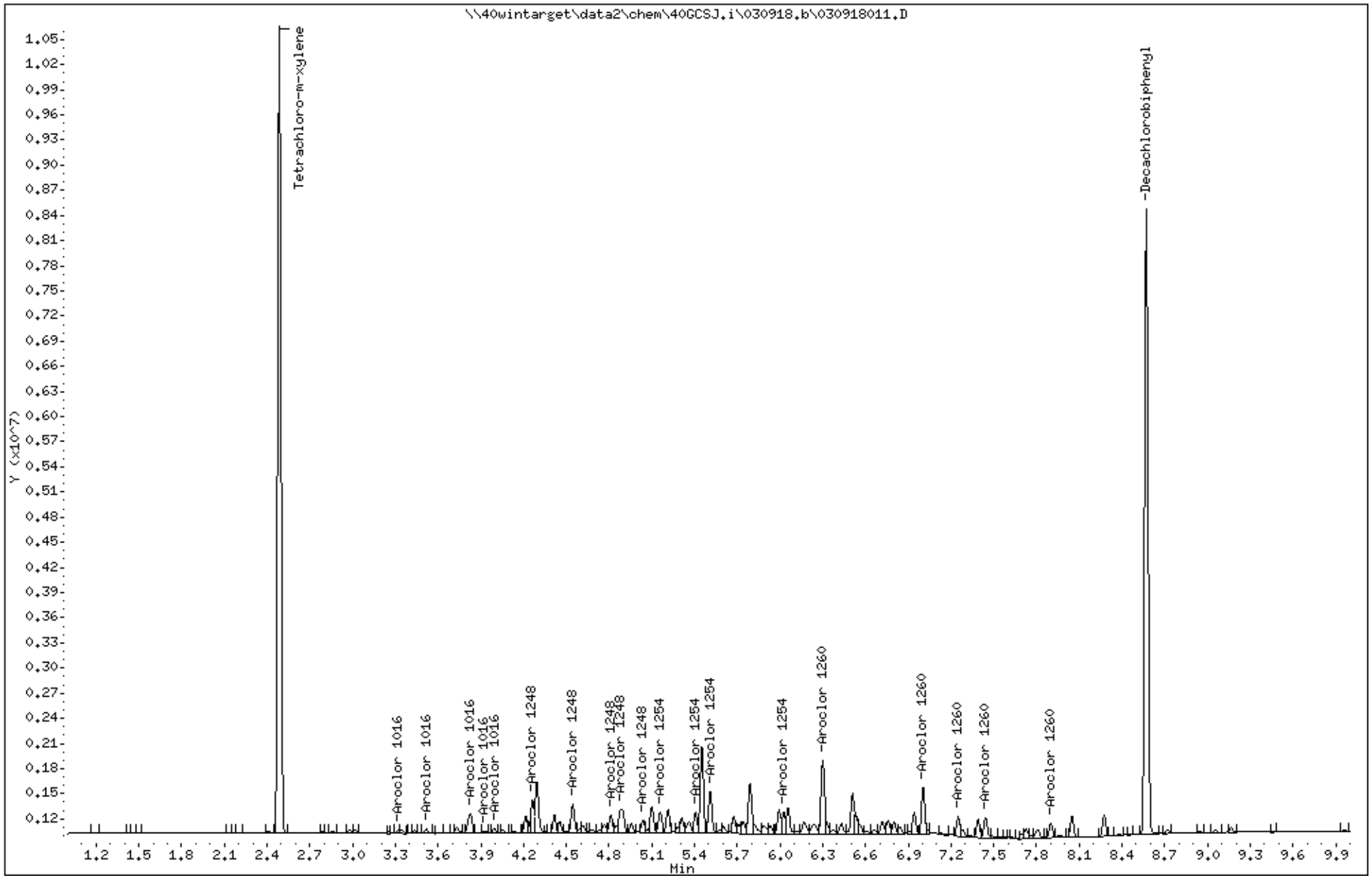
M - Compound response manually integrated.

Review Codes Legend

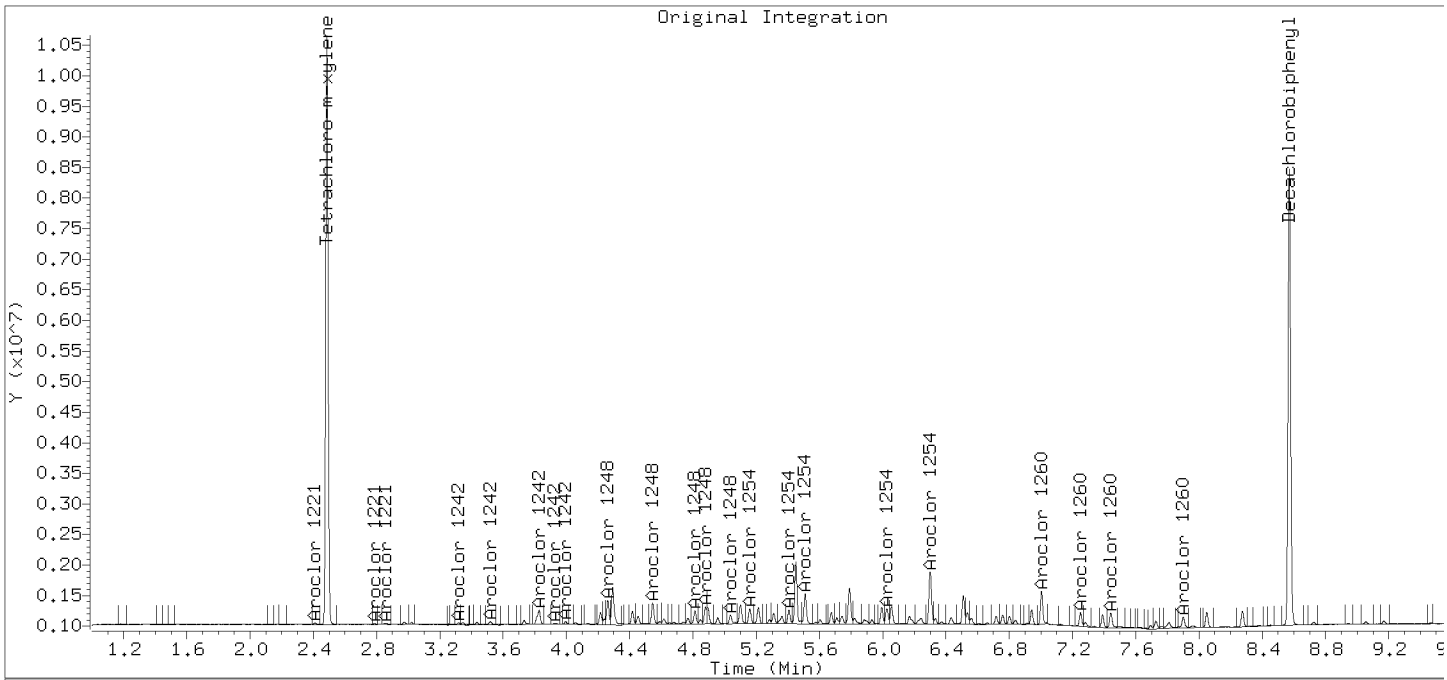
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

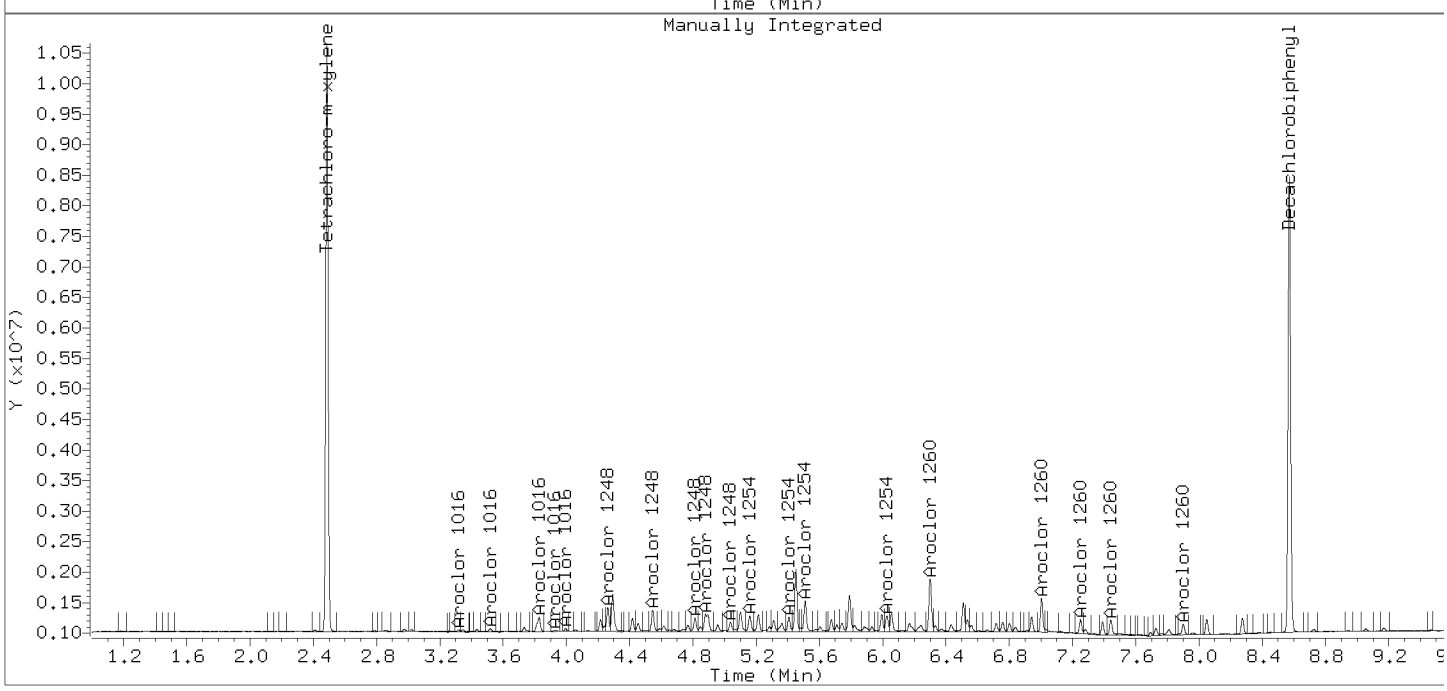
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918011.D
Date : 09-MAR-2018 15:14
Client ID: CS1-170518-01-BB-18
Sample Info: 40150294003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 15:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294003





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	30251	0	
Aroclor 1232	30251	0	
Aroclor 1232	30251	0	
Aroclor 1232	30251	0	

Aroclor 1232	30251	0	
Aroclor 1242	32438	0	
Aroclor 1242	32438	0	
Aroclor 1242	32438	0	
Aroclor 1242	32438	0	
Aroclor 1242	32438	0	
Aroclor 1248	429150	415531	CO
Aroclor 1248	429150	415531	CO
Aroclor 1248	429150	415531	CO
Aroclor 1248	429150	415531	CO
Aroclor 1248	429150	415531	CO
Aroclor 1254	280107	328672	BA
Aroclor 1254	280107	328672	BA
Aroclor 1254	280107	328672	BA
Aroclor 1254	280107	328672	BA
Aroclor 1254	280107	328672	BA
Aroclor 1260	1013618	1053142	CO
Aroclor 1260	1013618	1053142	CO
Aroclor 1260	1013618	1053142	CO
Aroclor 1260	1013618	1053142	CO
Aroclor 1260	1013618	1053142	CO
Tetrachloro-m-xylene	10036162	10036162	
Decachlorobiphenyl	8404979	8404979	

==========

SAMPLE NO.

CS1-170518-01-BB-17

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294004
Date Analyzed: 03/09/2018 15:30
Lab File ID: 030918.B\030918012.D
Initial wt/vol: 9.9726 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)	168	
11097-69-1	PCB-1254 (Aroclor 1254)	76.0	
11096-82-5	PCB-1260 (Aroclor 1260)	57.1	
1336-36-3	PCB, Total	301	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918012.D
Lab Smp Id: 40150294004 Client Smp ID: CS1-170518-01-BB-17
Inj Date : 09-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294004,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.039	11364	11349	0.999	0.01		
1.069	18162	13139	0.723	0.03		
1.103	15442	10542	0.683	0.02		
1.537	14953	10271	0.687	0.02		
2.124	10934	6971	0.638	0.01		
2.316	13206	12393	0.938	0.02		
2.408	54106	40450	0.748	0.09		
2.485	11508584	11224902	0.975	20.56	$ 2 Tetrachloro-m-xylene	
2.789	28964	26017	0.898	0.05		
2.851	50079	35769	0.714	0.08		
2.974	80405	53742	0.668	0.13		
3.019	69904	70036	1.002	0.12		
3.057	35174	28435	0.808	0.06		
3.318	217973	214800	0.985	0.37		
3.344	108995	107339	0.985	0.18		
3.433	107848	97056	0.900	0.18		
3.518	256864	215010	0.837	0.44		
3.646	35680	29883	0.838	0.06		
3.731	314853	305318	0.970	0.54		
3.755	55086	57475	1.043	0.09		
3.827	1737383	1085153	0.625	3.01		
3.932	141139	87223	0.618	0.24		
3.995	194093	185932	0.958	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	161842	136936	0.846	0.28	
4.138	56646	49011	0.865	0.09	
4.215	958495	848055	0.885	1.66	
4.261	1367666	1308351	0.957	2.37	6 Aroclor 1248
4.292	1827464	1537915	0.842	3.17	
4.349	35194	29701	0.844	0.06	
4.417	855629	815949	0.954	1.48	
4.453	406651	368854	0.907	0.70	
4.545	1209239	1142056	0.944	2.10	6 Aroclor 1248
4.590	94823	83821	0.884	0.16	
4.617	217549	188797	0.868	0.37	
4.681	95861	73080	0.762	0.16	
4.738	115023	80962	0.704	0.19	
4.768	220872	212377	0.962	0.38	
4.813	712553	673632	0.945	1.23	6 Aroclor 1248
4.847	464902	449093	0.966	0.80	
4.880	1663615	918662	0.552	2.89	6 Aroclor 1248
4.957	338924	262409	0.774	0.58	
5.037	425651	385876	0.907	0.73	6 Aroclor 1248
5.058	41533	58995	1.420	0.07	
5.100	921923	778544	0.844	1.60	
5.161	812585	696579	0.857	1.41	7 Aroclor 1254
5.214	836039	730399	0.874	1.45	
5.255	35824	29497	0.823	0.06	
5.283	159351	143499	0.901	0.27	
5.311	318907	271744	0.852	0.55	
5.363	392805	310585	0.791	0.68	
5.406	592398	542969	0.917	1.02	7 Aroclor 1254
5.451	1355249	1231292	0.909	2.35	
5.479	125946	126351	1.003	0.21	
5.509	1388404	1236169	0.890	2.41	7 Aroclor 1254
5.579	85542	67542	0.790	0.14	
5.605	188214	153763	0.817	0.32	
5.675	438816	396242	0.903	0.76	
5.709	265808	217304	0.818	0.46	
5.742	325575	252536	0.776	0.56	
5.790	1441582	1175366	0.815	2.50	
5.822	197277	148580	0.753	0.34	
5.884	242252	143838	0.594	0.42	
5.932	145683	121578	0.835	0.25	
5.993	482981	457853	0.948	0.83	
6.027	655091	550564	0.840	1.13	7 Aroclor 1254
6.056	869727	746648	0.858	1.51	
6.170	403266	226441	0.562	0.70	
6.242	339550	177696	0.523	0.58	
6.300	1798825	1457865	0.810	3.12	8 Aroclor 1260
6.333	181604	157932	0.870	0.31	
6.374	98757	70821	0.717	0.17	
6.432	251418	184433	0.734	0.43	
6.510	834912	707989	0.848	1.45	
6.535	362610	340928	0.940	0.62	
6.561	199955	171789	0.859	0.34	
6.605	76058	50033	0.658	0.13	
6.661	81195	60532	0.746	0.14	
6.718	290731	242589	0.834	0.50	
6.759	295406	251990	0.853	0.51	
6.802	256825	223317	0.870	0.44	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.841	164919	114377	0.694	0.28	
6.913	43082	41821	0.971	0.07	
6.942	273451	246962	0.903	0.47	
7.005	798705	734047	0.919	1.38	8 Aroclor 1260
7.036	56762	64249	1.132	0.09	
7.074	16584	14962	0.902	0.02	
7.124	32755	28929	0.883	0.05	
7.251	370738	322974	0.871	0.64	8 Aroclor 1260
7.282	129565	98861	0.763	0.22	
7.336	24031	19377	0.806	0.04	
7.390	325321	273170	0.840	0.56	
7.443	357669	299350	0.837	0.62	8 Aroclor 1260
7.553	22513	20981	0.932	0.03	
7.581	13065	13214	1.011	0.02	
7.617	50860	16808	0.330	0.08	
7.691	77543	75571	0.975	0.13	
7.727	143946	120905	0.840	0.25	
7.760	28402	22386	0.788	0.04	
7.812	121540	72846	0.599	0.21	
7.862	10914	12254	1.123	0.01	
7.900	228963	193997	0.847	0.39	8 Aroclor 1260
7.967	46610	27065	0.581	0.08	
8.048	144003	130689	0.908	0.25	
8.275	289268	263453	0.911	0.50	
8.376	23528	15747	0.669	0.04	
8.450	19192	14424	0.752	0.03	
8.480	9250	9273	1.003	0.01	
8.571	9464081	8272470	0.874	16.44	$ 12 Decachlorobiphenyl
8.702	9258	8316	0.898	0.01	
8.725	49138	35765	0.728	0.08	
8.943	10271	8401	0.818	0.01	
9.055	27255	21695	0.796	0.04	
9.169	74983	63648	0.849	0.13	
	57558577	50086521		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918012.D
Lab Smp Id: 40150294004 Client Smp ID: CS1-170518-01-BB-17
Inj Date : 09-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294004,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11508584	0.09334	47			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1367665	0.58373	290	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1209239	0.29136	150	0.00- 20.00	88.42	CO
4.813	4.812	0.001	712553	0.35100	180	0.00- 20.00	52.10	CO
4.880	4.879	0.001	1663614	0.33025	160	0.00- 20.00	121.64	CO
5.036	5.038	-0.002	425651	0.11861	59	0.00- 20.00	31.12	CO
			Average of Peak Concentrations =		170			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	812584	0.15521	78	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	592398	0.13773	69	0.00- 20.00	72.90	BA
5.509	5.510	-0.001	1388404	0.17878	90	0.00- 20.00	170.86	BA
6.027	6.027	0.000	655091	0.13452	67	0.00- 20.00	80.62	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		76			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	1798825	0.20297	100	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	798704	0.07976	40	0.00- 20.00	44.40	CO
7.251	7.251	0.000	370738	0.07756	39	0.00- 20.00	20.61	CO
7.442	7.443	-0.001	357668	0.12269	62	0.00- 20.00	19.88	CO
7.899	7.901	-0.002	228962	0.08677	44	0.00- 20.00	12.73	CO
			Average of Peak Concentrations =		57			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9464081	0.08638	43			

QC Flag Legend

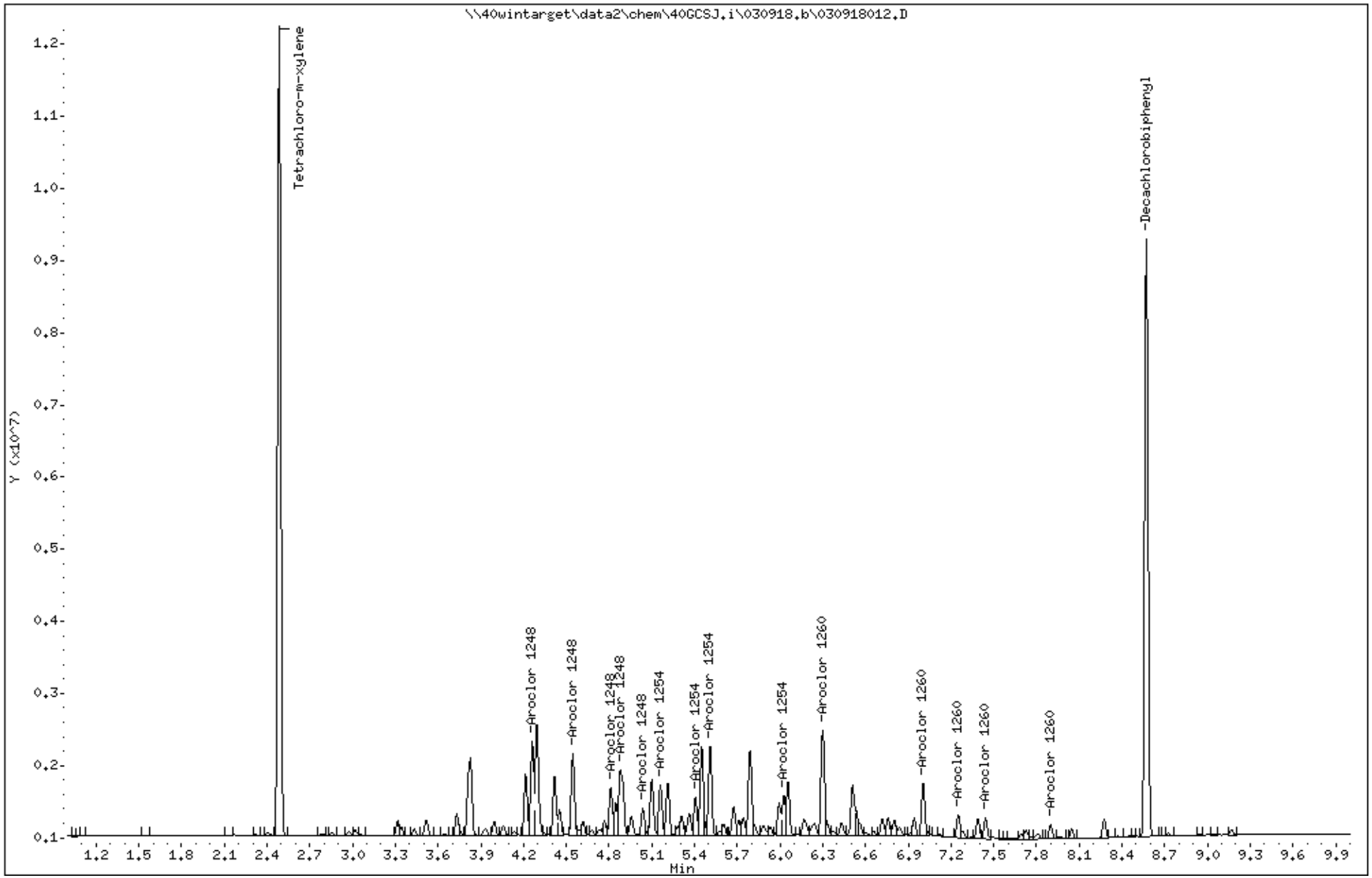
M - Compound response manually integrated.

Review Codes Legend

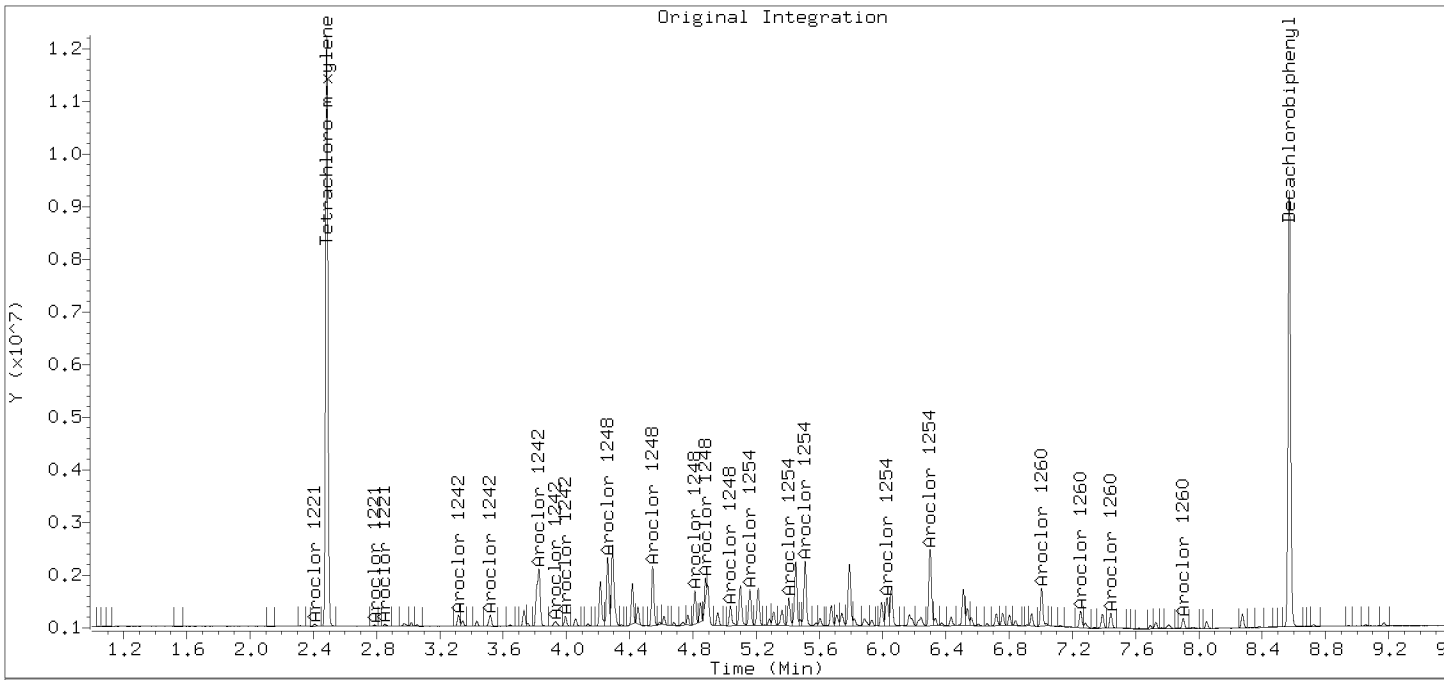
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

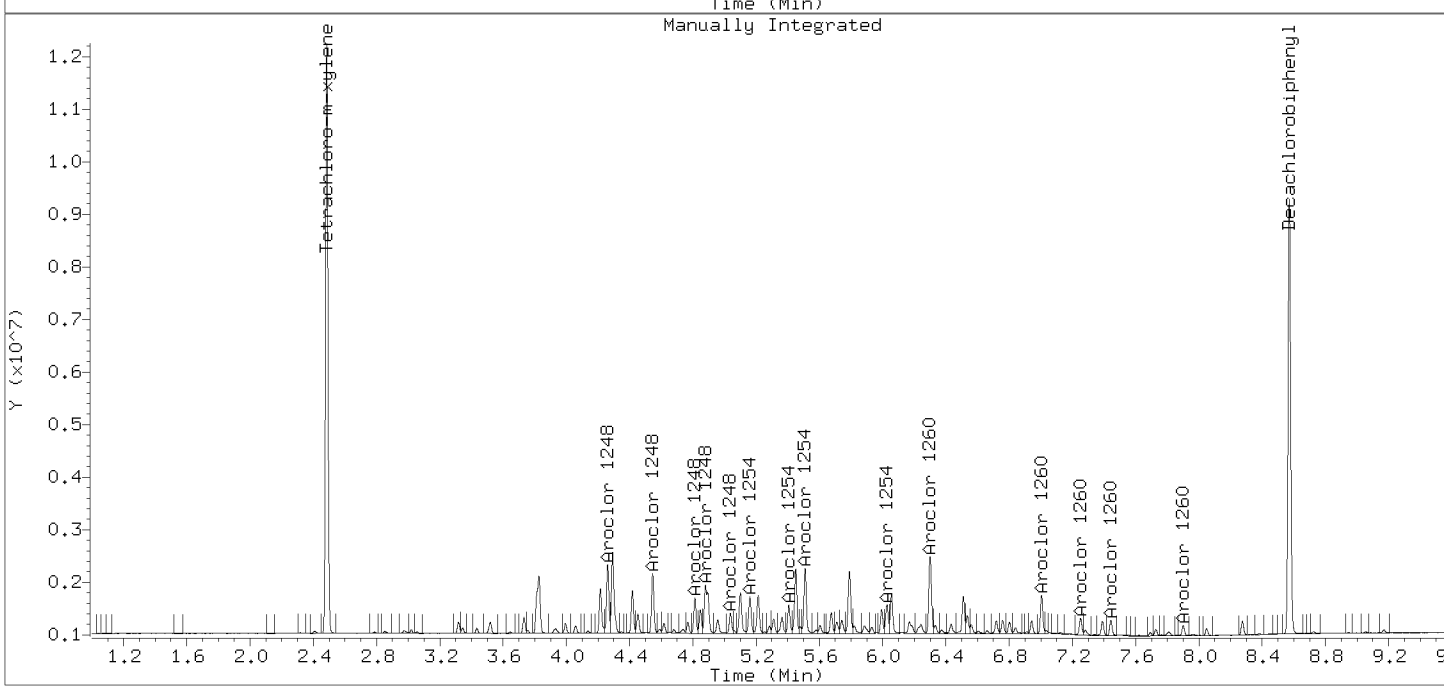
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918012.D
Date : 09-MAR-2018 15:30
Client ID: CS1-170518-01-BB-17
Sample Info: 40150294004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 15:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	217973	0	
Aroclor 1016	217973	0	
Aroclor 1016	217973	0	
Aroclor 1016	217973	0	
Aroclor 1016	217973	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	50079	0	
Aroclor 1232	50079	0	
Aroclor 1232	50079	0	
Aroclor 1232	50079	0	

Aroclor 1232	50079	0	
Aroclor 1242	217973	0	
Aroclor 1242	217973	0	
Aroclor 1242	217973	0	
Aroclor 1242	217973	0	
Aroclor 1242	217973	0	
Aroclor 1248	1352450	1367665	CO
Aroclor 1248	1352450	1367665	CO
Aroclor 1248	1352450	1367665	CO
Aroclor 1248	1352450	1367665	CO
Aroclor 1248	1352450	1367665	CO
Aroclor 1254	766642	812584	BA
Aroclor 1254	766642	812584	BA
Aroclor 1254	766642	812584	BA
Aroclor 1254	766642	812584	BA
Aroclor 1254	766642	812584	BA
Aroclor 1260	1744803	1798825	CO
Aroclor 1260	1744803	1798825	CO
Aroclor 1260	1744803	1798825	CO
Aroclor 1260	1744803	1798825	CO
Aroclor 1260	1744803	1798825	CO
Tetrachloro-m-xylene	11508584	11508584	
Decachlorobiphenyl	9464081	9464081	

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SAMPLE NO.

CS1-170518-01-BB-16

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294005
Date Analyzed: 03/09/2018 15:46
Lab File ID: 030918.B\030918013.D
Initial wt/vol: 9.9833 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)	119	
11097-69-1	PCB-1254 (Aroclor 1254)	66.7	
11096-82-5	PCB-1260 (Aroclor 1260)	86.7	
1336-36-3	PCB, Total	272	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918013.D
Lab Smp Id: 40150294005 Client Smp ID: CS1-170518-01-BB-16
Inj Date : 09-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294005,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.027	16861	11016	0.653	0.02		
1.182	18115	11424	0.631	0.03		
1.427	9408	9591	1.019	0.01		
2.062	13339	9822	0.736	0.02		
2.126	31828	21828	0.686	0.05		
2.172	38924	37735	0.969	0.06		
2.209	19992	16024	0.802	0.03		
2.251	10042	9171	0.913	0.01		
2.294	64995	61304	0.943	0.11		
2.316	55549	55984	1.008	0.09		
2.354	9549	9324	0.976	0.01		
2.410	43502	32279	0.742	0.07		
2.485	11259506	10960592	0.973	20.52	$ 2 Tetrachloro-m-xylene	
2.790	26127	23419	0.896	0.04		
2.856	44512	28744	0.646	0.07		
2.976	49924	40171	0.805	0.08		
3.019	41748	38581	0.924	0.07		
3.057	14243	15242	1.070	0.02		
3.318	102318	96547	0.944	0.18		
3.344	66089	55251	0.836	0.11		
3.402	15055	13533	0.899	0.02		
3.434	89484	78094	0.873	0.15		
3.519	181538	168040	0.926	0.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.647	23540	19821	0.842	0.04	
3.733	202243	181589	0.898	0.35	
3.827	940137	639235	0.680	1.65	
3.929	52914	28105	0.531	0.09	
3.995	91090	86964	0.955	0.16	
4.058	90771	73116	0.806	0.16	
4.136	32651	27032	0.828	0.05	
4.216	597350	495082	0.829	1.05	
4.262	945076	910103	0.963	1.66	6 Aroclor 1248
4.292	1595418	1379220	0.864	2.81	
4.351	47956	25928	0.541	0.08	
4.418	550802	504915	0.917	0.97	
4.453	247606	208800	0.843	0.43	
4.502	52140	25573	0.490	0.09	
4.547	816489	741886	0.909	1.44	6 Aroclor 1248
4.591	96852	87781	0.906	0.17	
4.617	185988	146836	0.789	0.32	
4.654	35931	29382	0.818	0.06	
4.682	93843	67579	0.720	0.16	
4.739	110563	74601	0.675	0.19	
4.768	248218	209603	0.844	0.43	
4.813	549286	497100	0.905	0.96	6 Aroclor 1248
4.848	185685	171894	0.926	0.32	
4.880	1250549	638585	0.511	2.20	6 Aroclor 1248
4.957	265557	212037	0.798	0.46	
5.003	25789	25808	1.001	0.04	
5.038	247666	219482	0.886	0.43	6 Aroclor 1248
5.061	77329	60128	0.778	0.13	
5.101	828880	694748	0.838	1.46	
5.160	658350	545167	0.828	1.16	7 Aroclor 1254
5.213	679963	574674	0.845	1.19	
5.253	33611	33261	0.990	0.05	
5.284	174996	160203	0.915	0.30	
5.309	336283	270680	0.805	0.59	
5.363	341289	238653	0.699	0.60	
5.407	554611	503329	0.908	0.97	7 Aroclor 1254
5.451	1348124	1262633	0.937	2.37	
5.481	97545	102819	1.054	0.17	
5.510	1157646	1017661	0.879	2.04	7 Aroclor 1254
5.578	101658	72109	0.709	0.17	
5.604	188051	129307	0.688	0.33	
5.676	423710	380953	0.899	0.74	
5.711	264283	220611	0.835	0.46	
5.742	389730	302754	0.777	0.68	
5.790	1519024	1255574	0.827	2.68	
5.821	228440	137268	0.601	0.40	
5.884	250004	156628	0.627	0.44	
5.931	210865	164741	0.781	0.37	
5.994	697517	650149	0.932	1.23	
6.027	629756	546185	0.867	1.11	7 Aroclor 1254
6.056	722424	617153	0.854	1.27	
6.125	51621	31510	0.610	0.09	
6.169	444737	280219	0.630	0.78	
6.231	135694	163095	1.202	0.23	
6.241	295360	230008	0.779	0.52	
6.301	2236329	1868301	0.835	3.94	8 Aroclor 1260
6.334	223323	198162	0.887	0.39	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.374	114940	81900	0.713	0.20	
6.433	327301	257697	0.787	0.57	
6.510	1200691	1060942	0.884	2.11	
6.536	444757	436380	0.981	0.78	
6.561	272325	234441	0.861	0.48	
6.606	88186	71856	0.815	0.15	
6.661	93228	77946	0.836	0.16	
6.718	359605	308776	0.859	0.63	
6.759	428145	371878	0.869	0.75	
6.802	348231	308362	0.886	0.61	
6.839	210954	162074	0.768	0.37	
6.911	61796	59959	0.970	0.10	
6.944	316832	301881	0.953	0.55	
7.005	1346099	1225750	0.911	2.37	8 Aroclor 1260
7.036	122148	104467	0.855	0.21	
7.078	28947	21952	0.758	0.05	
7.122	47043	39130	0.832	0.08	
7.252	560383	512801	0.915	0.98	8 Aroclor 1260
7.281	176321	145149	0.823	0.31	
7.338	21535	19003	0.882	0.03	
7.390	599928	522627	0.871	1.05	
7.443	610047	538551	0.883	1.07	8 Aroclor 1260
7.551	33889	27972	0.825	0.05	
7.585	11778	11858	1.007	0.02	
7.619	23595	14099	0.598	0.04	
7.692	137607	127074	0.923	0.24	
7.729	236599	202378	0.855	0.41	
7.765	35921	29248	0.814	0.06	
7.811	166523	100526	0.604	0.29	
7.901	400588	357746	0.893	0.70	8 Aroclor 1260
7.963	73125	40570	0.555	0.12	
8.049	125721	115420	0.918	0.22	
8.276	503811	460667	0.914	0.88	
8.380	27567	18338	0.665	0.04	
8.454	11059	11264	1.019	0.01	
8.571	9710650	8437609	0.869	17.13	$ 12 Decachlorobiphenyl
8.725	62743	52470	0.836	0.11	
8.941	13992	11429	0.817	0.02	
9.055	32080	26851	0.837	0.05	
9.170	112049	104929	0.936	0.19	
9.462	9901	11726	1.184	0.01	
9.471	22006	16365	0.744	0.03	
9.962	32958	20299	0.616	0.05	
	56669516	49462816		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918013.D
Lab Smp Id: 40150294005 Client Smp ID: CS1-170518-01-BB-16
Inj Date : 09-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294005,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.983	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		
2.485	2.484	0.001	11259506	0.09132	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	945076	0.40337	200	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	816489	0.19673	98	0.00- 20.00	86.39	BA
4.812	4.812	0.000	549286	0.27057	140	0.00- 20.00	58.12	BA
4.879	4.879	0.000	1250549	0.24825	120	0.00- 20.00	132.32	BA
5.037	5.038	-0.001	247665	0.06902	34	0.00- 20.00	26.21	BA
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	658350	0.12575	63	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	554610	0.12895	64	0.00- 20.00	84.24	BA
5.509	5.510	-0.001	1157646	0.14906	75	0.00- 20.00	175.84	BA
6.026	6.027	-0.001	629756	0.12932	65	0.00- 20.00	95.66	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					67			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	2236328	0.25234	130	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	1346098	0.13442	67	0.00- 20.00	60.19	BA
7.251	7.251	0.000	560383	0.11724	59	0.00- 20.00	25.06	BA
7.442	7.443	-0.001	610046	0.20927	100	0.00- 20.00	27.28	BA
7.900	7.901	-0.001	400587	0.15181	76	0.00- 20.00	17.91	BA
Average of Peak Concentrations =					87			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9710650	0.08863	44			

QC Flag Legend

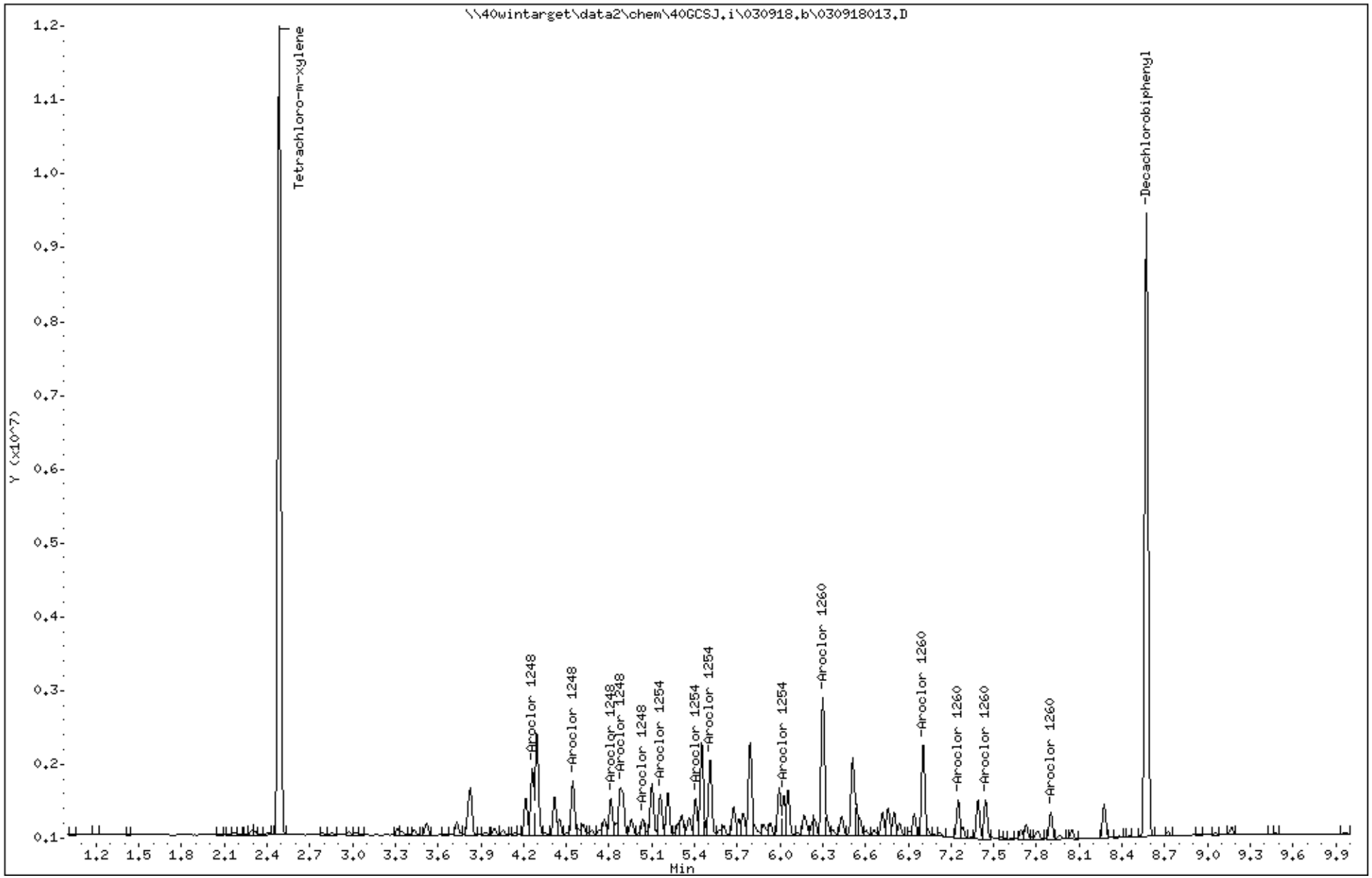
M - Compound response manually integrated.

Review Codes Legend

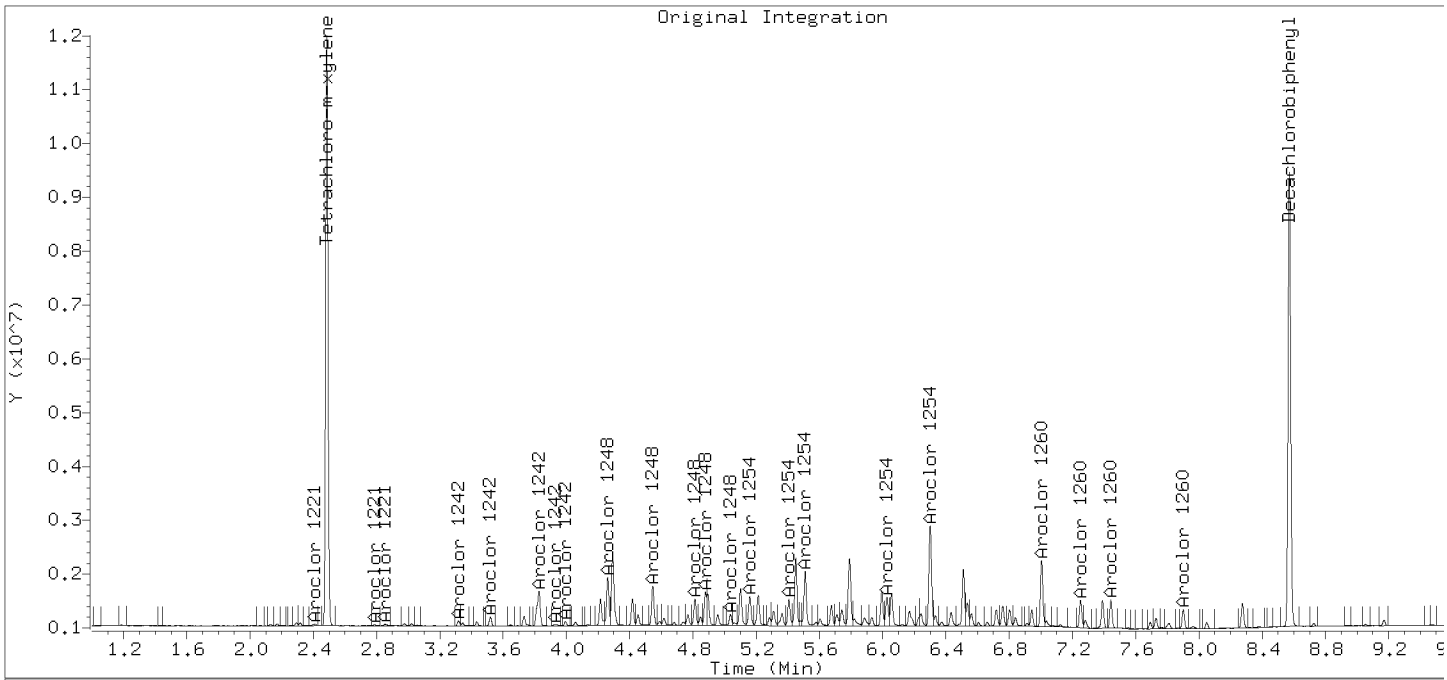
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

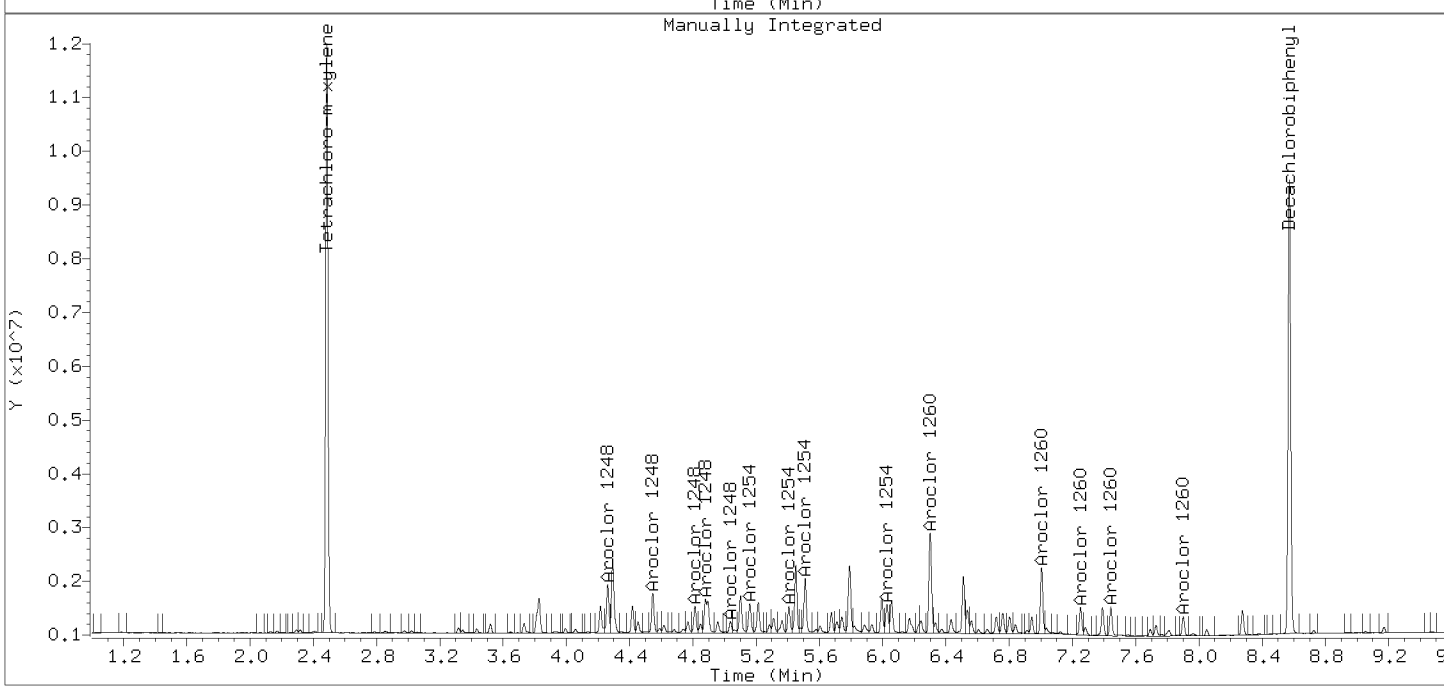
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918013.D
Date : 09-MAR-2018 15:46
Client ID: CS1-170518-01-BB-16
Sample Info: 40150294005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 15:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	102318	0	
Aroclor 1016	102318	0	
Aroclor 1016	102318	0	
Aroclor 1016	102318	0	
Aroclor 1016	102318	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	44512	0	
Aroclor 1232	44512	0	
Aroclor 1232	44512	0	
Aroclor 1232	44512	0	

Aroclor 1232	44512	0	
Aroclor 1242	102318	0	
Aroclor 1242	102318	0	
Aroclor 1242	102318	0	
Aroclor 1242	102318	0	
Aroclor 1242	102318	0	
Aroclor 1248	925323	945076	BA
Aroclor 1248	925323	945076	BA
Aroclor 1248	925323	945076	BA
Aroclor 1248	925323	945076	BA
Aroclor 1248	925323	945076	BA
Aroclor 1254	633847	658350	BA
Aroclor 1254	633847	658350	BA
Aroclor 1254	633847	658350	BA
Aroclor 1254	633847	658350	BA
Aroclor 1254	633847	658350	BA
Aroclor 1260	2211546	2236328	BA
Aroclor 1260	2211546	2236328	BA
Aroclor 1260	2211546	2236328	BA
Aroclor 1260	2211546	2236328	BA
Aroclor 1260	2211546	2236328	BA
Tetrachloro-m-xylene	11259506	11259506	
Decachlorobiphenyl	9710650	9710650	

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SAMPLE NO.

CS1-170518-01-BB-15

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294006
Date Analyzed: 03/09/2018 16:02
Lab File ID: 030918.B\030918014.D
Initial wt/vol: 10.0033 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)	199	
11097-69-1	PCB-1254 (Aroclor 1254)	110	
11096-82-5	PCB-1260 (Aroclor 1260)	106	
1336-36-3	PCB, Total	415	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918014.D
Lab Smp Id: 40150294006 Client Smp ID: CS1-170518-01-BB-15
Inj Date : 09-MAR-2018 16:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294006,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.033	14163	12318	0.870	0.01		
1.088	9432	7033	0.746	0.01		
1.155	9428	9956	1.056	0.01		
1.537	14684	11207	0.763	0.01		
1.950	18661	13540	0.726	0.02		
2.196	10937	8730	0.798	0.01		
2.410	70684	65049	0.920	0.09		
2.485	12247062	12102564	0.988	16.72	$ 2 Tetrachloro-m-xylene	
2.788	31509	26684	0.847	0.04		
2.853	46079	33976	0.737	0.06		
2.974	108125	69172	0.640	0.14		
3.019	114626	120625	1.052	0.15		
3.054	18252	18824	1.031	0.02		
3.318	154078	149712	0.972	0.20		
3.343	95845	90511	0.944	0.12		
3.434	137873	136140	0.987	0.18		
3.519	220125	191911	0.872	0.29		
3.645	44896	41390	0.922	0.05		
3.731	422296	365049	0.864	0.55		
3.827	1622708	1012017	0.624	2.14		
3.926	77837	47535	0.611	0.10		
3.995	153792	151707	0.986	0.20		
4.059	149226	122099	0.818	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	71664	54625	0.762	0.09	
4.215	716863	578547	0.807	0.94	
4.261	1578078	1519364	0.963	2.08	6 Aroclor 1248
4.292	2913088	2515100	0.863	3.84	
4.351	53225	37024	0.696	0.07	
4.417	747111	706466	0.946	0.98	
4.453	379848	352235	0.927	0.50	
4.493	17485	13458	0.770	0.02	
4.545	1446844	1338323	0.925	1.90	6 Aroclor 1248
4.588	153310	142585	0.930	0.20	
4.617	277739	252904	0.911	0.36	
4.652	27685	25360	0.916	0.03	
4.680	133522	113531	0.850	0.17	
4.737	154586	125082	0.809	0.20	
4.767	338424	328559	0.971	0.44	
4.813	851557	814463	0.956	1.12	6 Aroclor 1248
4.848	302142	283302	0.938	0.39	
4.895	2083812	1081469	0.519	2.74	6 Aroclor 1248
4.956	446707	394188	0.882	0.58	
5.006	35464	27723	0.782	0.04	
5.037	490093	458819	0.936	0.64	6 Aroclor 1248
5.055	67246	79562	1.183	0.08	
5.100	1393562	1199098	0.860	1.83	
5.159	1043000	878878	0.843	1.37	7 Aroclor 1254
5.212	1124199	965259	0.859	1.48	
5.256	30799	28629	0.930	0.04	
5.284	256034	242495	0.947	0.33	
5.311	587560	514986	0.876	0.77	
5.363	495596	415669	0.839	0.65	
5.407	914410	849086	0.929	1.20	7 Aroclor 1254
5.452	2469860	2321324	0.940	3.25	
5.478	160538	178932	1.115	0.21	
5.509	1971715	1754732	0.890	2.60	7 Aroclor 1254
5.577	131597	111250	0.845	0.17	
5.604	266077	225148	0.846	0.35	
5.676	796952	733169	0.920	1.05	
5.710	455406	384886	0.845	0.60	
5.743	565094	455415	0.806	0.74	
5.790	2257360	1812652	0.803	2.97	
5.821	304649	260804	0.856	0.40	
5.884	425701	257593	0.605	0.56	
5.932	289689	247123	0.853	0.38	
5.993	970822	888385	0.915	1.28	
6.027	1027960	865730	0.842	1.35	7 Aroclor 1254
6.056	1284200	1147986	0.894	1.69	
6.116	27855	21308	0.765	0.03	
6.169	677031	392425	0.580	0.89	
6.243	576604	305704	0.530	0.76	
6.300	3254720	2731814	0.839	4.29	8 Aroclor 1260
6.334	306905	285352	0.930	0.40	
6.373	162074	118081	0.729	0.21	
6.432	482687	389605	0.807	0.63	
6.510	1613903	1404019	0.870	2.12	
6.536	666926	624185	0.936	0.88	
6.560	335028	296212	0.884	0.44	
6.604	129403	93026	0.719	0.17	
6.660	120638	99163	0.822	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.718	499360	424762	0.851	0.65	
6.758	554499	482903	0.871	0.73	
6.801	449824	402109	0.894	0.59	
6.839	293727	224942	0.766	0.38	
6.913	80920	75182	0.929	0.10	
6.943	556709	541795	0.973	0.73	
7.005	1530106	1418546	0.927	2.01	8 Aroclor 1260
7.034	175939	115045	0.654	0.23	
7.099	13725	15903	1.159	0.01	
7.122	57873	46821	0.809	0.07	
7.250	681412	630185	0.925	0.89	8 Aroclor 1260
7.281	221849	175154	0.790	0.29	
7.339	29785	21953	0.737	0.03	
7.389	645903	556255	0.861	0.85	
7.442	670386	592552	0.884	0.88	8 Aroclor 1260
7.492	76329	30205	0.396	0.10	
7.550	47569	36025	0.757	0.06	
7.618	28281	17350	0.613	0.03	
7.692	151210	140316	0.928	0.19	
7.727	260869	225462	0.864	0.34	
7.763	54084	38965	0.720	0.07	
7.811	228755	154654	0.676	0.30	
7.865	28583	22793	0.797	0.03	
7.901	452660	377941	0.835	0.59	8 Aroclor 1260
7.961	84442	44842	0.531	0.11	
8.049	312424	297009	0.951	0.41	
8.131	12099	10372	0.857	0.01	
8.274	531184	491317	0.925	0.70	
8.379	27378	17869	0.653	0.03	
8.449	22674	19946	0.880	0.02	
8.571	9993656	8843181	0.885	13.18	$ 12 Decachlorobiphenyl
8.642	17721	15658	0.884	0.02	
8.725	82999	72307	0.871	0.10	
8.947	12189	8567	0.703	0.01	
8.994	13799	9596	0.695	0.01	
9.056	68882	49401	0.717	0.09	
9.170	137532	118559	0.862	0.18	
9.734	9788	8537	0.872	0.01	
9.962	11094	8461	0.763	0.01	
	75783581	66334001		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918014.D
Lab Smp Id: 40150294006 Client Smp ID: CS1-170518-01-BB-15
Inj Date : 09-MAR-2018 16:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294006,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12247062	0.09933	50			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1578078	0.67354	340	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1446843	0.34861	170	0.00- 20.00	91.68	CO
4.812	4.812	0.000	851557	0.41947	210	0.00- 20.00	53.96	CO
4.894	4.879	0.015	2083811	0.41366	210	0.00- 20.00	132.05	CO
5.036	5.038	-0.002	490093	0.13657	68	0.00- 20.00	31.06	CO
Average of Peak Concentrations =					200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1042999	0.19923	100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	914409	0.21260	110	0.00- 20.00	87.67	BA
5.509	5.510	-0.001	1971715	0.25389	130	0.00- 20.00	189.04	BA
6.026	6.027	-0.001	1027960	0.21109	100	0.00- 20.00	98.56	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3254719	0.36725	180	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1530105	0.15279	76	0.00- 20.00	47.01	BA
7.250	7.251	-0.001	681411	0.14256	71	0.00- 20.00	20.94	BA
7.442	7.443	-0.001	670385	0.22997	110	0.00- 20.00	20.60	BA
7.900	7.901	-0.001	452659	0.17154	86	0.00- 20.00	13.91	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	9993655	0.09122	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\030918.b\030918014.D

Date : 09-MAR-2018 16:02

Client ID: CS1-170518-01-BB-15

Instrument: 40GCSJ.i

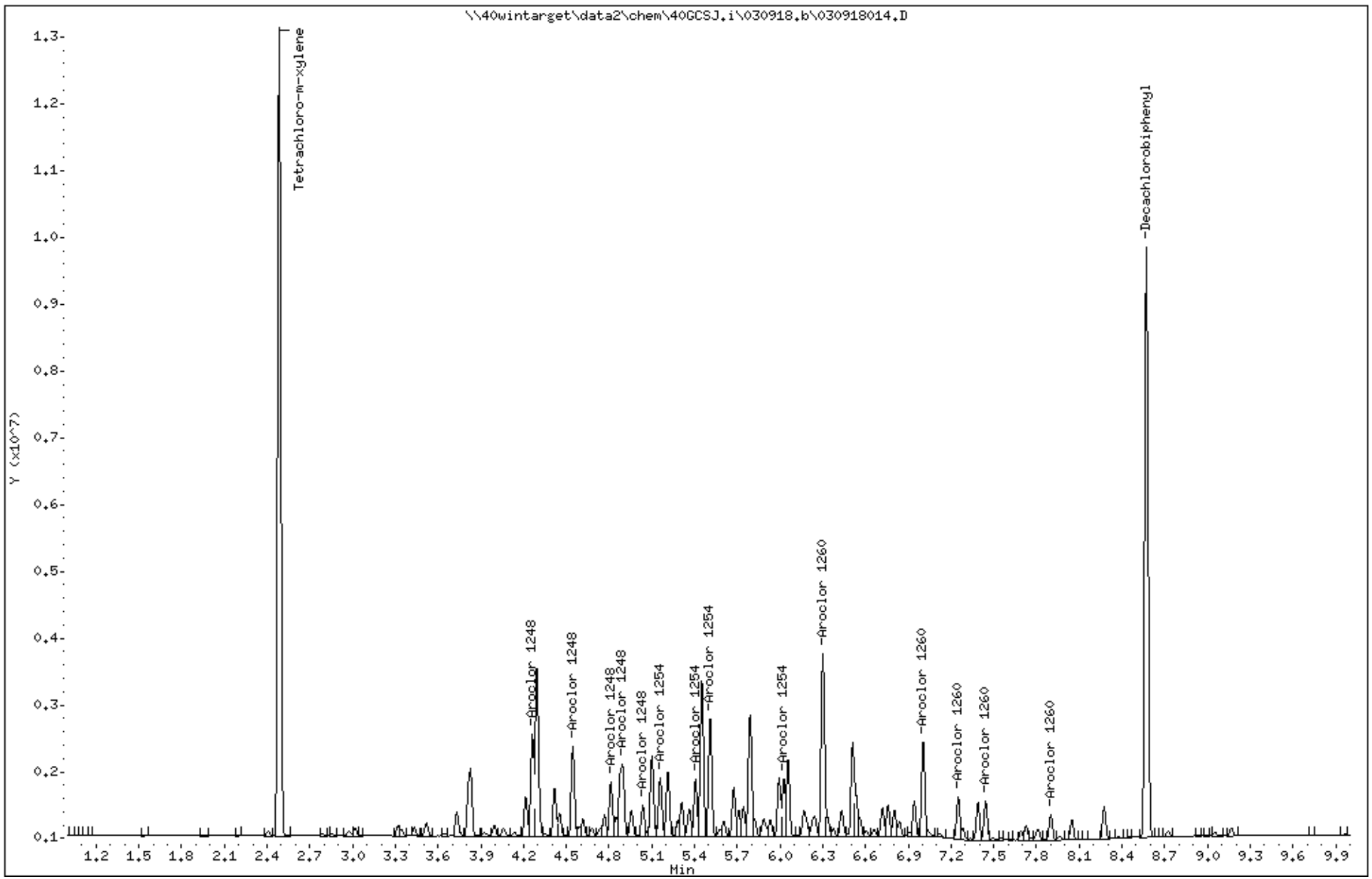
Sample Info: 40150294006,

Volume Injected (uL): 1.0

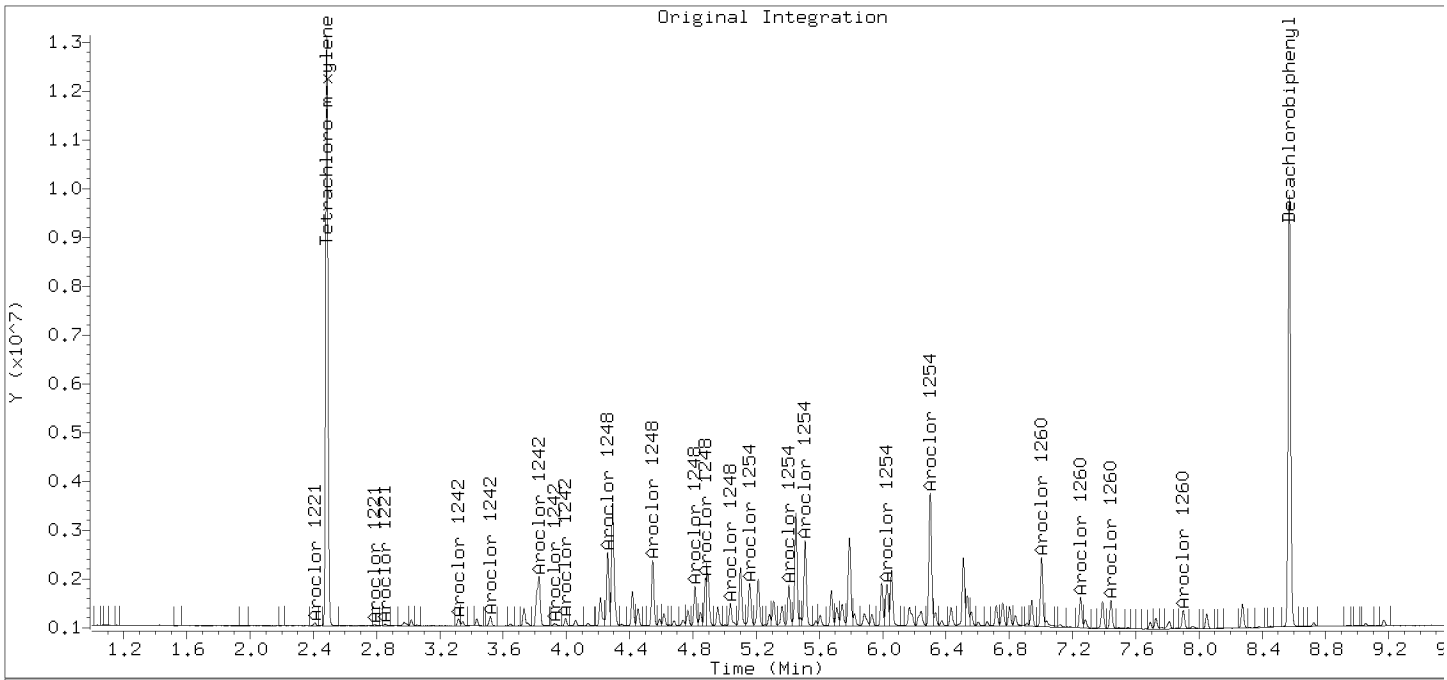
Operator: BLM

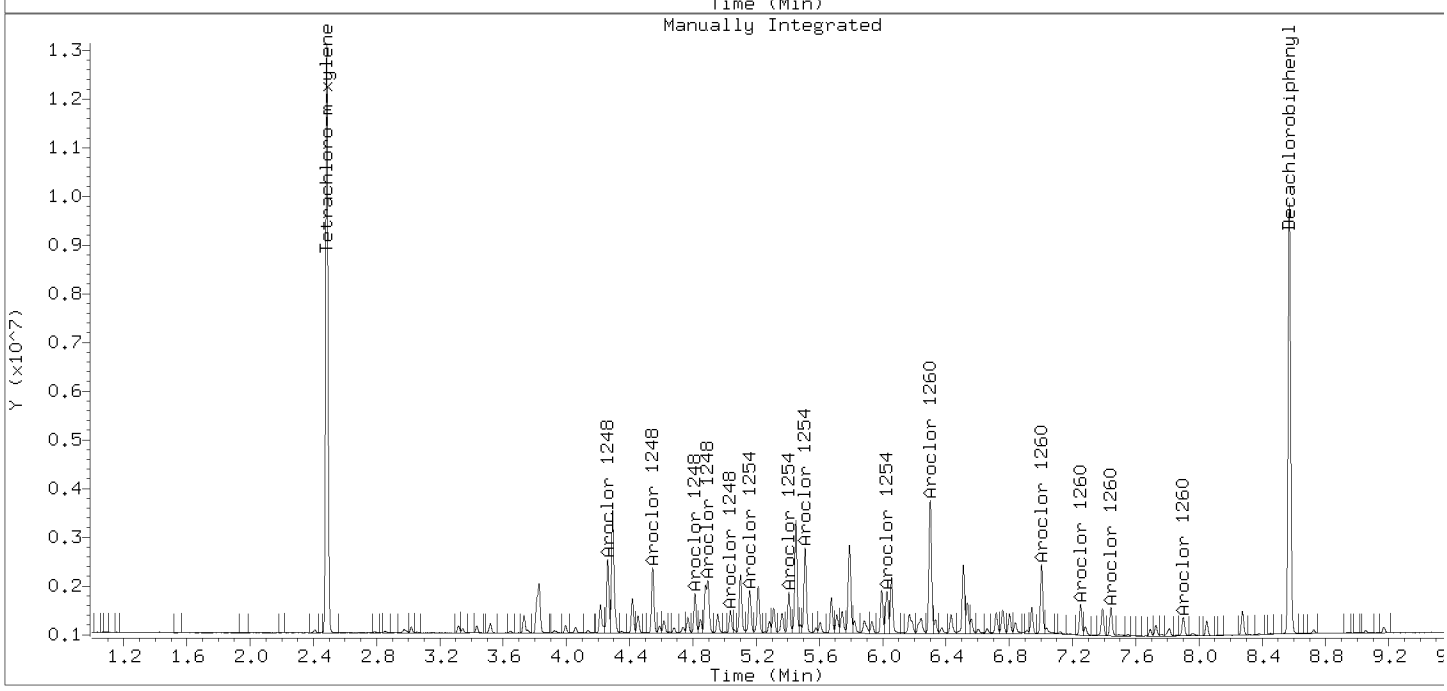
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 16:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	154078	0	
Aroclor 1016	154078	0	
Aroclor 1016	154078	0	
Aroclor 1016	154078	0	
Aroclor 1016	154078	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	46079	0	
Aroclor 1232	46079	0	
Aroclor 1232	46079	0	
Aroclor 1232	46079	0	

Aroclor 1232	46079	0	
Aroclor 1242	154078	0	
Aroclor 1242	154078	0	
Aroclor 1242	154078	0	
Aroclor 1242	154078	0	
Aroclor 1242	154078	0	
Aroclor 1248	1569869	1578078	CO
Aroclor 1248	1569869	1578078	CO
Aroclor 1248	1569869	1578078	CO
Aroclor 1248	1569869	1578078	CO
Aroclor 1248	1569869	1578078	CO
Aroclor 1254	1021767	1042999	BA
Aroclor 1254	1021767	1042999	BA
Aroclor 1254	1021767	1042999	BA
Aroclor 1254	1021767	1042999	BA
Aroclor 1254	1021767	1042999	BA
Aroclor 1260	3215237	3254719	BA
Aroclor 1260	3215237	3254719	BA
Aroclor 1260	3215237	3254719	BA
Aroclor 1260	3215237	3254719	BA
Aroclor 1260	3215237	3254719	BA
Tetrachloro-m-xylene	12247062	12247062	
Decachlorobiphenyl	9993655	9993655	

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SAMPLE NO.

CS1-170518-01-BB-14

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294007
Date Analyzed: 03/09/2018 16:18
Lab File ID: 030918.B\030918015.D
Initial wt/vol: 9.9677 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)	225	
11097-69-1	PCB-1254 (Aroclor 1254)	120	
11096-82-5	PCB-1260 (Aroclor 1260)	108	
1336-36-3	PCB, Total	452	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918015.D
Lab Smp Id: 40150294007 Client Smp ID: CS1-170518-01-BB-14
Inj Date : 09-MAR-2018 16:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294007,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.025	12395	8189	0.661	0.01		
1.158	12316	9390	0.762	0.01		
1.428	14142	10888	0.770	0.01		
1.539	14637	11195	0.765	0.01		
1.950	24940	15419	0.618	0.03		
2.410	54883	50448	0.919	0.06		
2.485	12199989	11849554	0.971	15.92	$ 2 Tetrachloro-m-xylene	
2.785	25302	22260	0.880	0.03		
2.853	51002	34285	0.672	0.06		
2.974	92541	69883	0.755	0.11		
3.020	65853	64671	0.982	0.08		
3.055	19459	17595	0.904	0.02		
3.160	10600	8248	0.778	0.01		
3.317	161581	148130	0.917	0.20		
3.343	61841	57199	0.925	0.07		
3.400	19943	15661	0.785	0.02		
3.434	174710	153492	0.879	0.21		
3.519	330667	304001	0.919	0.41		
3.645	48260	43064	0.892	0.06		
3.694	11433	11798	1.032	0.01		
3.732	491169	441322	0.899	0.61		
3.826	2009455	1246647	0.620	2.52		
3.925	104194	56825	0.545	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.995	163401	154890	0.948	0.20	
4.059	201466	171713	0.852	0.25	
4.137	74949	66450	0.887	0.09	
4.215	1162886	1037824	0.892	1.46	
4.261	2086622	2004276	0.961	2.62	6 Aroclor 1248
4.293	2832286	2442510	0.862	3.56	
4.347	52689	38115	0.723	0.06	
4.417	1050901	998323	0.950	1.32	
4.452	404419	368829	0.912	0.50	
4.545	1632762	1499012	0.918	2.05	6 Aroclor 1248
4.589	130962	123724	0.945	0.16	
4.618	357043	303872	0.851	0.44	
4.681	148681	121459	0.817	0.18	
4.739	161110	129909	0.806	0.20	
4.768	303341	282502	0.931	0.38	
4.813	772945	735093	0.951	0.97	6 Aroclor 1248
4.847	328399	312378	0.951	0.41	
4.894	2164761	1221553	0.564	2.72	6 Aroclor 1248
4.957	523098	455812	0.871	0.65	
5.004	39944	32382	0.811	0.05	
5.037	516421	486238	0.942	0.64	6 Aroclor 1248
5.055	75603	92259	1.220	0.09	
5.100	1549982	1318546	0.851	1.94	
5.160	1230839	1023131	0.831	1.54	7 Aroclor 1254
5.213	1249901	1067976	0.854	1.57	
5.251	43472	40349	0.928	0.05	
5.282	255155	243767	0.955	0.32	
5.309	576509	490176	0.850	0.72	
5.362	523881	471439	0.900	0.65	
5.407	955627	881274	0.922	1.20	7 Aroclor 1254
5.451	2589386	2492839	0.963	3.25	
5.478	196650	201391	1.024	0.24	
5.510	2180867	1935885	0.888	2.74	7 Aroclor 1254
5.577	130213	117010	0.899	0.16	
5.604	299144	235864	0.788	0.37	
5.676	782861	728752	0.931	0.98	
5.710	454301	391606	0.862	0.57	
5.743	555621	435128	0.783	0.69	
5.789	2321910	1932456	0.832	2.91	
5.822	400873	352172	0.879	0.50	
5.884	438717	245594	0.560	0.55	
5.931	273244	233681	0.855	0.34	
5.994	919571	825287	0.897	1.15	
6.027	1075163	921384	0.857	1.35	7 Aroclor 1254
6.056	1408542	1242904	0.882	1.77	
6.121	32624	24468	0.750	0.04	
6.170	711449	421681	0.593	0.89	
6.242	605590	327625	0.541	0.76	
6.300	3320671	2802667	0.844	4.17	8 Aroclor 1260
6.333	323495	283244	0.876	0.40	
6.374	162487	126029	0.776	0.20	
6.433	449759	338319	0.752	0.56	
6.510	1596140	1417020	0.888	2.00	
6.535	678562	653631	0.963	0.85	
6.561	368130	325795	0.885	0.46	
6.604	136001	100301	0.738	0.17	
6.661	134198	107464	0.801	0.16	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.718	535270	439974	0.822	0.67	
6.758	576400	504068	0.875	0.72	
6.802	475210	425196	0.895	0.59	
6.840	284686	208222	0.731	0.35	
6.888	20184	23035	1.141	0.02	
6.912	78705	74619	0.948	0.09	
6.941	507729	471308	0.928	0.63	
7.004	1610569	1476830	0.917	2.02	8 Aroclor 1260
7.037	195627	130462	0.667	0.24	
7.099	12581	14834	1.179	0.01	
7.122	64615	54052	0.837	0.08	
7.252	704427	662419	0.940	0.88	8 Aroclor 1260
7.282	221814	175478	0.791	0.27	
7.339	29015	23822	0.821	0.03	
7.390	659535	560977	0.851	0.82	
7.442	656166	586684	0.894	0.82	8 Aroclor 1260
7.494	46325	28510	0.615	0.05	
7.551	32832	31145	0.949	0.04	
7.623	21370	13363	0.625	0.02	
7.691	154647	148699	0.962	0.19	
7.726	248004	214669	0.866	0.31	
7.762	41070	35289	0.859	0.05	
7.812	214043	142883	0.668	0.26	
7.861	21055	17484	0.830	0.02	
7.899	435648	383649	0.881	0.54	8 Aroclor 1260
7.962	85532	45970	0.537	0.10	
8.049	223704	220494	0.986	0.28	
8.133	11769	10827	0.920	0.01	
8.185	10193	9282	0.911	0.01	
8.275	537723	496858	0.924	0.67	
8.380	24283	18835	0.776	0.03	
8.453	27392	19615	0.716	0.03	
8.479	15527	11592	0.747	0.01	
8.570	10253125	8866382	0.865	12.89	$ 12 Decachlorobiphenyl
8.643	22141	16476	0.744	0.02	
8.701	12335	18767	1.521	0.01	
8.724	89896	66909	0.744	0.11	
8.835	12751	9318	0.731	0.01	
8.944	25153	15267	0.607	0.03	
9.053	40639	36574	0.900	0.05	
9.169	147244	136834	0.929	0.18	
9.463	10729	9331	0.870	0.01	
9.966	13210	11104	0.841	0.01	
	79538404	69354248		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918015.D
Lab Smp Id: 40150294007 Client Smp ID: CS1-170518-01-BB-14
Inj Date : 09-MAR-2018 16:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294007,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12199988	0.09895	50			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2086621	0.89059	450	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1632761	0.39341	200	0.00- 20.00	78.25	CO
4.812	4.812	0.000	772944	0.38075	190	0.00- 20.00	37.04	CO
4.893	4.879	0.014	2164760	0.42973	220	0.00- 20.00	103.74	CO
5.037	5.038	-0.001	516421	0.14391	72	0.00- 20.00	24.75	CO
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1230839	0.23511	120	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	955626	0.22218	110	0.00- 20.00	77.64	BA
5.510	5.510	0.000	2180866	0.28082	140	0.00- 20.00	177.19	BA
6.027	6.027	0.000	1075163	0.22079	110	0.00- 20.00	87.35	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3320671	0.37469	190	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1610568	0.16083	81	0.00- 20.00	48.50	BA
7.251	7.251	0.000	704427	0.14738	74	0.00- 20.00	21.21	BA
7.442	7.443	-0.001	656165	0.22509	110	0.00- 20.00	19.76	BA
7.899	7.901	-0.002	435648	0.16510	83	0.00- 20.00	13.12	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10253124	0.09358	47			

QC Flag Legend

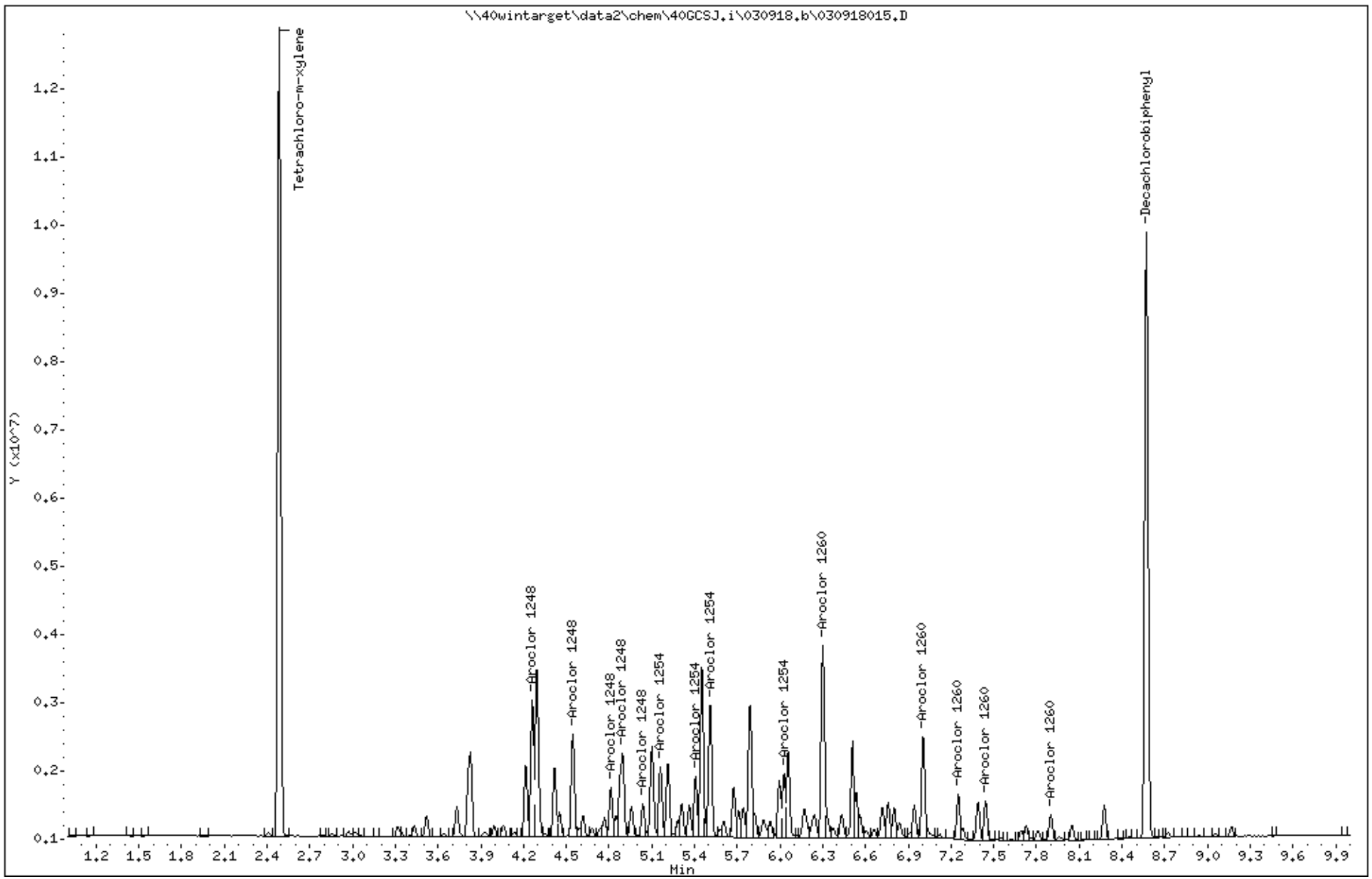
M - Compound response manually integrated.

Review Codes Legend

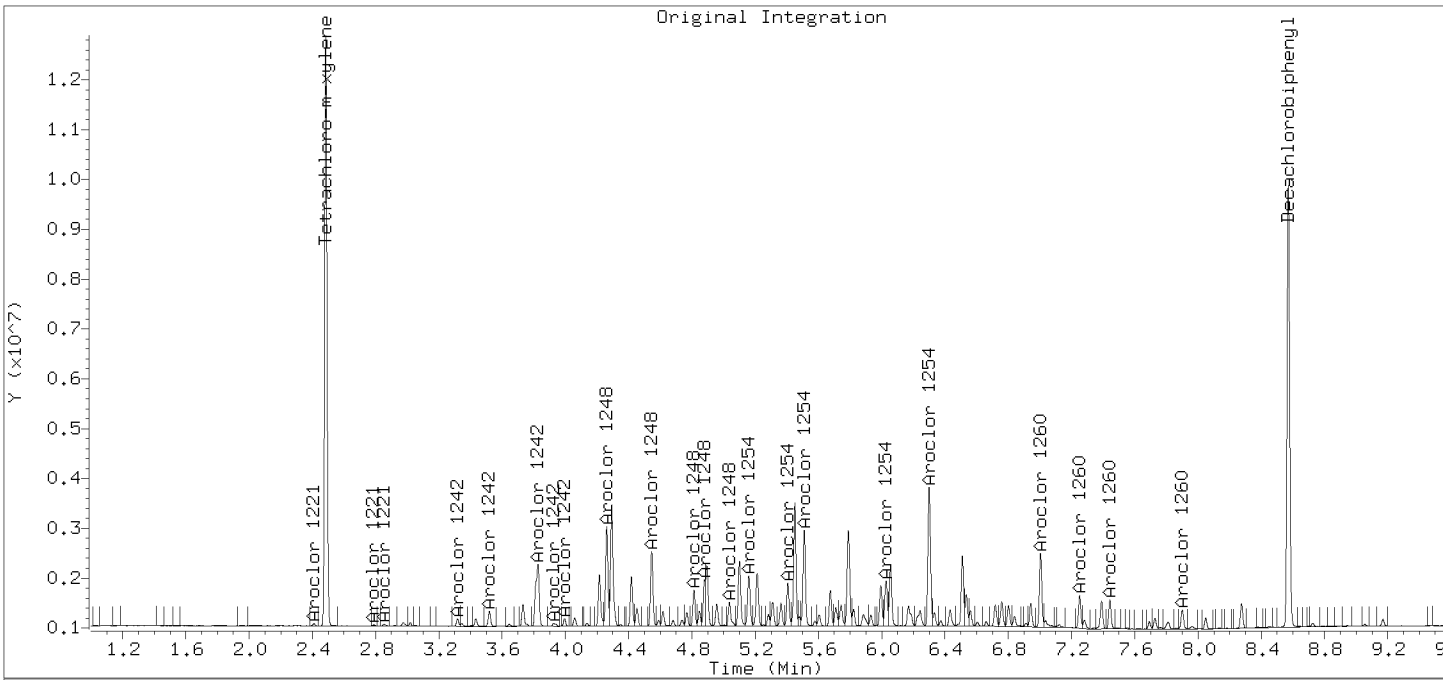
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

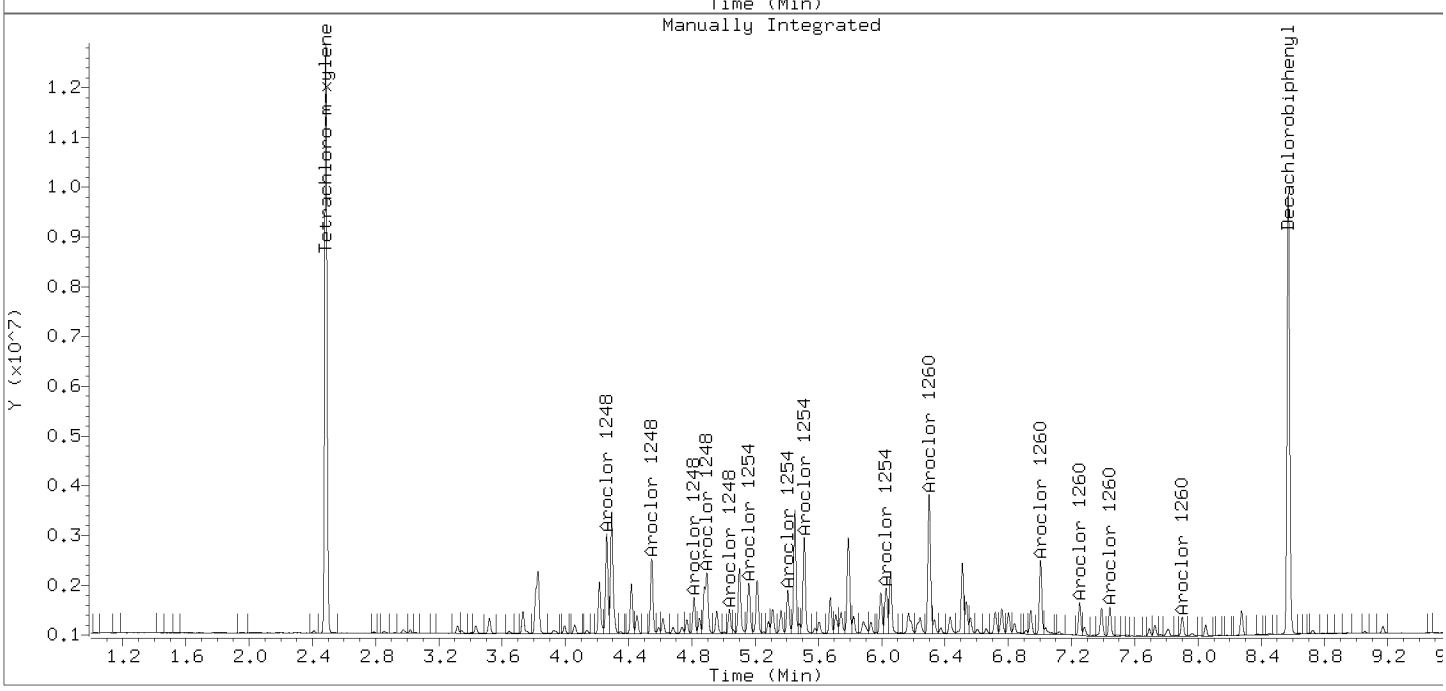
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918015.D
Date : 09-MAR-2018 16:18
Client ID: CS1-170518-01-BB-14
Sample Info: 40150294007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 16:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	161580	0	
Aroclor 1016	161580	0	
Aroclor 1016	161580	0	
Aroclor 1016	161580	0	
Aroclor 1016	161580	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	51001	0	
Aroclor 1232	51001	0	
Aroclor 1232	51001	0	
Aroclor 1232	51001	0	

Aroclor 1232	51001	0	
Aroclor 1242	161580	0	
Aroclor 1242	161580	0	
Aroclor 1242	161580	0	
Aroclor 1242	161580	0	
Aroclor 1242	161580	0	
Aroclor 1248	2071330	2086621	CO
Aroclor 1248	2071330	2086621	CO
Aroclor 1248	2071330	2086621	CO
Aroclor 1248	2071330	2086621	CO
Aroclor 1248	2071330	2086621	CO
Aroclor 1254	1198945	1230839	BA
Aroclor 1254	1198945	1230839	BA
Aroclor 1254	1198945	1230839	BA
Aroclor 1254	1198945	1230839	BA
Aroclor 1254	1198945	1230839	BA
Aroclor 1260	3284309	3320671	BA
Aroclor 1260	3284309	3320671	BA
Aroclor 1260	3284309	3320671	BA
Aroclor 1260	3284309	3320671	BA
Aroclor 1260	3284309	3320671	BA
Tetrachloro-m-xylene	12199988	12199988	
Decachlorobiphenyl	10253124	10253124	

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SAMPLE NO.

CS1-170518-01-BB-13

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294008
Date Analyzed: 03/09/2018 17:05
Lab File ID: 030918.B\030918018.D
Initial wt/vol: 9.9879 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)	218	
11097-69-1	PCB-1254 (Aroclor 1254)	109	
11096-82-5	PCB-1260 (Aroclor 1260)	85.4	
1336-36-3	PCB, Total	412	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918018.D
Lab Smp Id: 40150294008 Client Smp ID: CS1-170518-01-BB-13
Inj Date : 09-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294008,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.988	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.427	12595	11270	0.895	0.01		
1.537	14819	10875	0.734	0.02		
1.954	15768	11907	0.755	0.02		
2.411	44228	38022	0.860	0.06		
2.485	10977857	10805489	0.984	16.26	$ 2 Tetrachloro-m-xylene	
2.788	23829	19783	0.830	0.03		
2.853	44015	25789	0.586	0.06		
2.976	87862	69584	0.792	0.12		
3.021	77663	75690	0.975	0.11		
3.053	15584	14611	0.938	0.02		
3.319	102187	88800	0.869	0.14		
3.400	12305	13308	1.082	0.01		
3.434	56042	53315	0.951	0.08		
3.520	178784	166748	0.933	0.25		
3.644	41538	37471	0.902	0.05		
3.693	10716	9943	0.928	0.01		
3.732	454552	401861	0.884	0.64		
3.826	1932818	1116696	0.578	2.76		
3.929	90168	62107	0.689	0.12		
3.994	183629	173205	0.943	0.26		
4.059	114027	88913	0.780	0.16		
4.138	37544	29029	0.773	0.05		
4.215	921120	790264	0.858	1.31		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.262	1894073	1767632	0.933	2.70	6 Aroclor 1248
4.293	2844252	2465738	0.867	4.06	
4.350	51015	32722	0.641	0.07	
4.418	763511	728312	0.954	1.09	
4.453	417204	393338	0.943	0.59	
4.545	1598451	1490792	0.933	2.28	6 Aroclor 1248
4.588	147602	138010	0.935	0.21	
4.618	256830	208272	0.811	0.36	
4.680	121529	103431	0.851	0.17	
4.739	157977	129655	0.821	0.22	
4.768	329435	309679	0.940	0.47	
4.813	831007	791107	0.952	1.18	6 Aroclor 1248
4.848	391665	370725	0.947	0.55	
4.894	1993732	1029660	0.516	2.85	6 Aroclor 1248
4.956	451910	386867	0.856	0.64	
5.001	28533	24423	0.856	0.04	
5.038	643130	609677	0.948	0.91	6 Aroclor 1248
5.058	54257	80404	1.482	0.07	
5.101	1350741	1157670	0.857	1.93	
5.159	1094846	924179	0.844	1.56	7 Aroclor 1254
5.213	1201211	1037272	0.864	1.71	
5.253	30550	31494	1.031	0.04	
5.284	228280	222400	0.974	0.32	
5.310	519269	439088	0.846	0.74	
5.364	480190	396886	0.827	0.68	
5.406	886737	834151	0.941	1.26	7 Aroclor 1254
5.451	2110668	1976508	0.936	3.01	
5.479	193938	187440	0.966	0.27	
5.510	1977175	1758348	0.889	2.82	7 Aroclor 1254
5.579	122349	105901	0.866	0.17	
5.603	233523	188092	0.805	0.33	
5.676	724838	683300	0.943	1.03	
5.709	423468	360901	0.852	0.60	
5.742	493709	383555	0.777	0.70	
5.791	2015221	1663007	0.825	2.88	
5.822	271102	233402	0.861	0.38	
5.885	375289	235024	0.626	0.53	
5.932	240716	199371	0.828	0.34	
5.994	779772	731871	0.939	1.11	
6.027	963960	847262	0.879	1.37	7 Aroclor 1254
6.056	1366725	1232085	0.901	1.95	
6.169	619085	354155	0.572	0.88	
6.228	157540	187162	1.188	0.22	
6.242	351081	268853	0.766	0.50	
6.300	2801719	2322563	0.829	4.00	8 Aroclor 1260
6.333	275337	245249	0.891	0.39	
6.375	131341	103597	0.789	0.18	
6.432	373206	287293	0.770	0.53	
6.486	39324	46596	1.185	0.05	
6.510	1155903	1031953	0.893	1.65	
6.535	563177	527969	0.937	0.80	
6.561	291814	260656	0.893	0.41	
6.604	105062	76995	0.733	0.15	
6.661	102703	85551	0.833	0.14	
6.719	443265	373980	0.844	0.63	
6.759	452263	405192	0.896	0.64	
6.802	386008	351641	0.911	0.55	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	213691	161184	0.754	0.30	
6.913	58794	55244	0.940	0.08	
6.942	429779	414684	0.965	0.61	
7.005	1286514	1172533	0.911	1.83	8 Aroclor 1260
7.036	117238	93951	0.801	0.16	
7.075	17761	20255	1.140	0.02	
7.097	4748	7890	1.662	0.00	
7.122	43111	36376	0.844	0.06	
7.172	17639	7684	0.436	0.02	
7.251	571541	518867	0.908	0.81	8 Aroclor 1260
7.282	176562	139138	0.788	0.25	
7.340	26419	20308	0.769	0.03	
7.389	490486	430041	0.877	0.70	
7.443	499743	440153	0.881	0.71	8 Aroclor 1260
7.495	53033	23076	0.435	0.07	
7.554	26022	22597	0.868	0.03	
7.692	112743	104444	0.926	0.16	
7.726	180497	155944	0.864	0.25	
7.764	30963	25151	0.812	0.04	
7.811	167276	116749	0.698	0.23	
7.863	10298	11417	1.109	0.01	
7.901	309976	283489	0.915	0.44	8 Aroclor 1260
7.963	56072	30702	0.548	0.08	
8.050	197213	181431	0.920	0.28	
8.181	9665	6006	0.621	0.01	
8.275	376310	340442	0.905	0.53	
8.379	23946	19046	0.795	0.03	
8.451	14200	12672	0.892	0.02	
8.571	9366804	8474449	0.905	13.39	$ 12 Decachlorobiphenyl
8.641	20359	14428	0.709	0.02	
8.702	10265	13522	1.317	0.01	
8.725	66735	55219	0.827	0.09	
8.835	9776	11453	1.172	0.01	
8.942	26582	16293	0.613	0.03	
9.056	36251	29249	0.807	0.05	
9.169	88584	79864	0.902	0.12	
9.468	22937	15182	0.662	0.03	
9.962	21074	16872	0.801	0.03	
	69950476	61511741		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918018.D
Lab Smp Id: 40150294008 Client Smp ID: CS1-170518-01-BB-13
Inj Date : 09-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294008,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.988	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	10977857	0.08904	44			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1894072	0.80841	400	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1598450	0.38514	190	0.00- 20.00	84.39	CO
4.812	4.812	0.000	831007	0.40935	200	0.00- 20.00	43.87	CO
4.893	4.879	0.014	1993732	0.39578	200	0.00- 20.00	105.26	CO
5.037	5.038	-0.001	643129	0.17922	90	0.00- 20.00	33.95	CO
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1094845	0.20913	100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	886736	0.20617	100	0.00- 20.00	80.99	BA
5.510	5.510	0.000	1977175	0.25459	130	0.00- 20.00	180.59	BA
6.026	6.027	-0.001	963959	0.19795	99	0.00- 20.00	88.05	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2801719	0.31614	160	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1286514	0.12847	64	0.00- 20.00	45.92	BA
7.251	7.251	0.000	571540	0.11957	60	0.00- 20.00	20.40	BA
7.442	7.443	-0.001	499742	0.17143	86	0.00- 20.00	17.84	BA
7.900	7.901	-0.001	309976	0.11747	59	0.00- 20.00	11.06	BA
Average of Peak Concentrations =					85			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9366803	0.08549	43			

QC Flag Legend

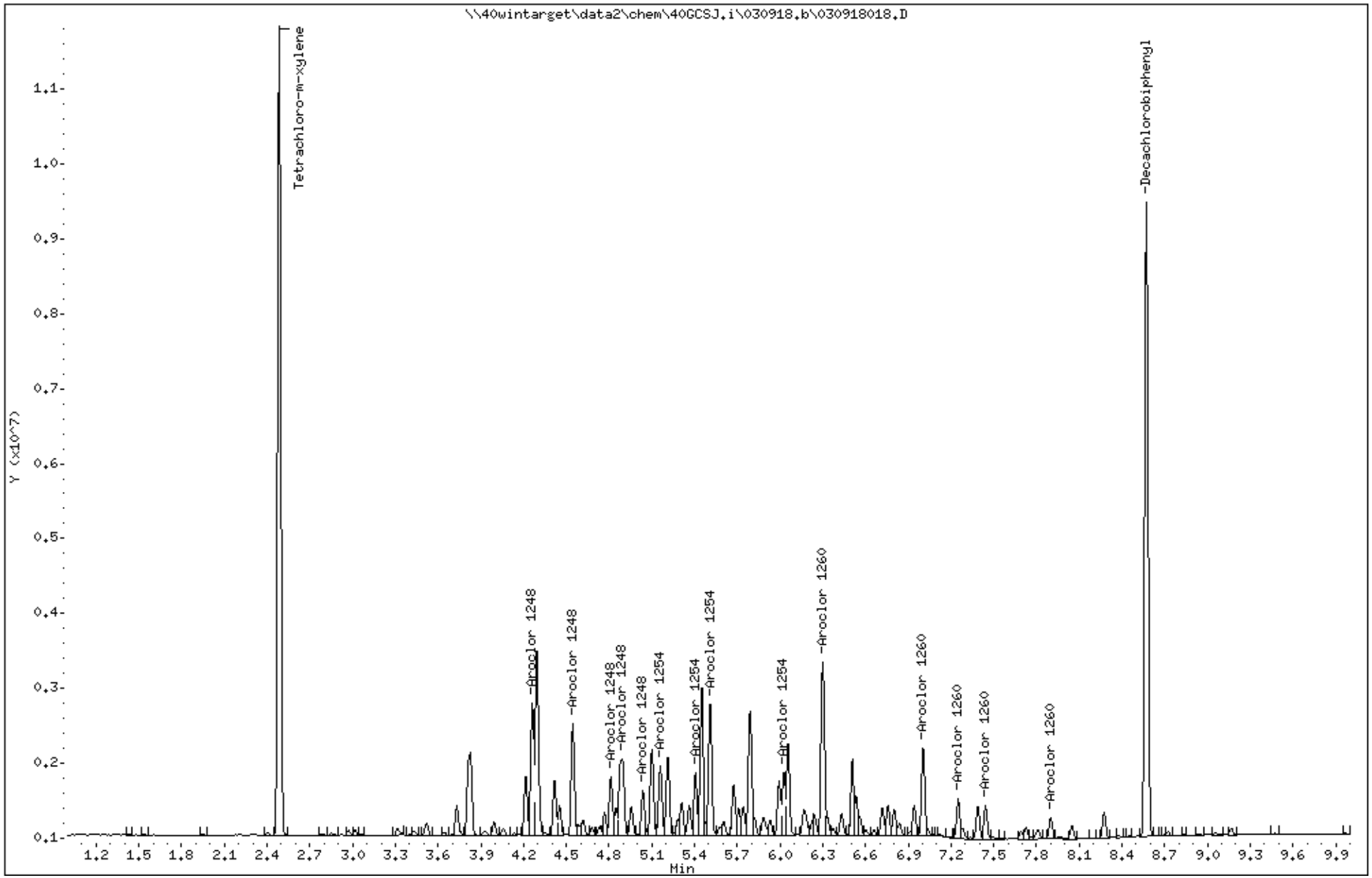
M - Compound response manually integrated.

Review Codes Legend

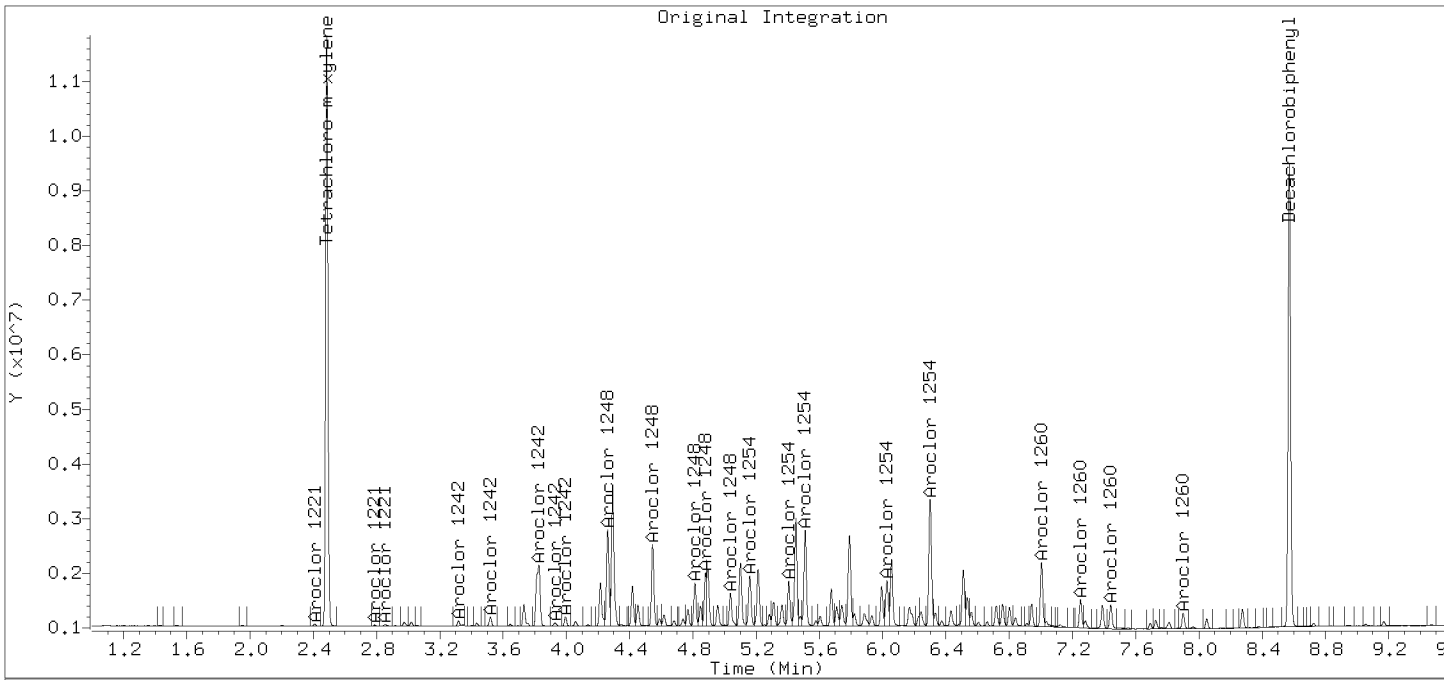
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

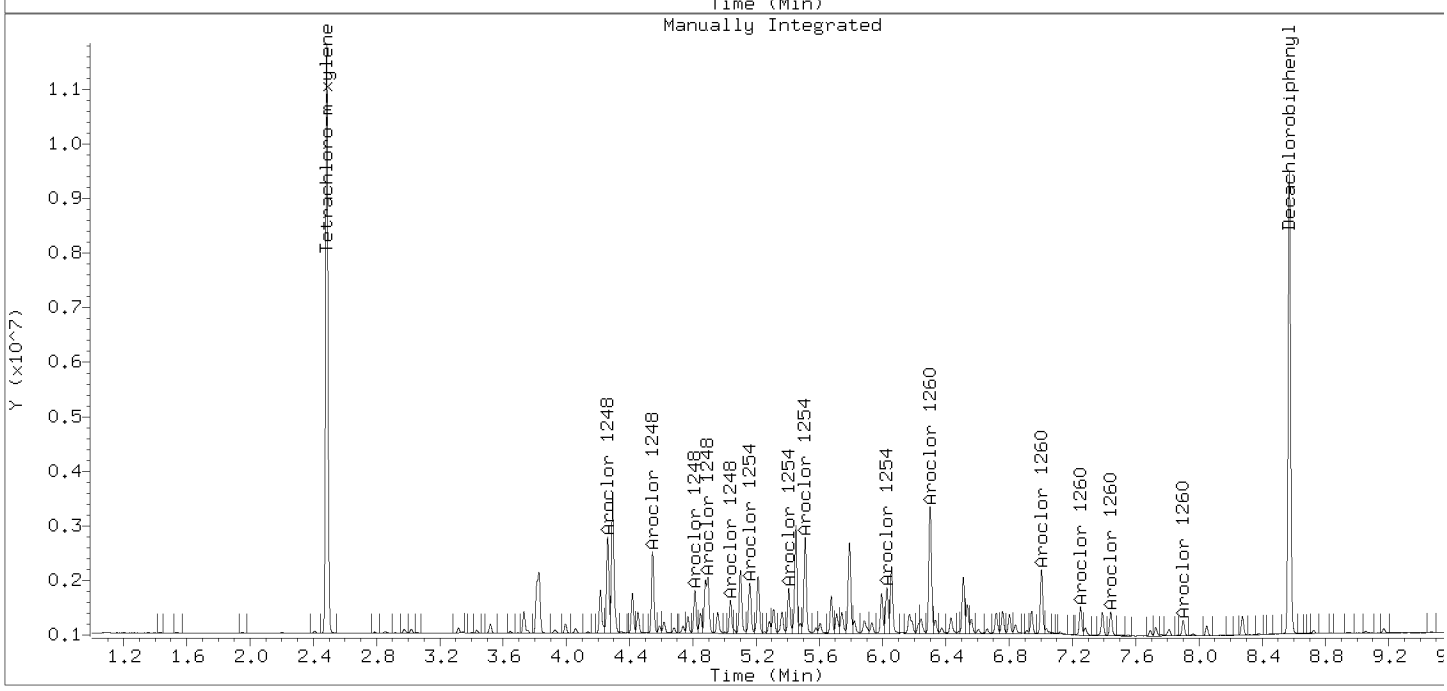
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918018.D
Date : 09-MAR-2018 17:05
Client ID: CS1-170518-01-BB-13
Sample Info: 40150294008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 17:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	102186	0	
Aroclor 1016	102186	0	
Aroclor 1016	102186	0	
Aroclor 1016	102186	0	
Aroclor 1016	102186	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	44015	0	
Aroclor 1232	44015	0	
Aroclor 1232	44015	0	
Aroclor 1232	44015	0	

Aroclor 1232	44015	0	
Aroclor 1242	102186	0	
Aroclor 1242	102186	0	
Aroclor 1242	102186	0	
Aroclor 1242	102186	0	
Aroclor 1242	102186	0	
Aroclor 1248	1878854	1894072	CO
Aroclor 1248	1878854	1894072	CO
Aroclor 1248	1878854	1894072	CO
Aroclor 1248	1878854	1894072	CO
Aroclor 1248	1878854	1894072	CO
Aroclor 1254	1065903	1094845	BA
Aroclor 1254	1065903	1094845	BA
Aroclor 1254	1065903	1094845	BA
Aroclor 1254	1065903	1094845	BA
Aroclor 1254	1065903	1094845	BA
Aroclor 1260	2765603	2801719	BA
Aroclor 1260	2765603	2801719	BA
Aroclor 1260	2765603	2801719	BA
Aroclor 1260	2765603	2801719	BA
Aroclor 1260	2765603	2801719	BA
Tetrachloro-m-xylene	10977857	10977857	
Decachlorobiphenyl	9366803	9366803	

==========

SAMPLE NO.

CS1-170518-01-BB-12

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294009
Date Analyzed: 03/09/2018 17:21
Lab File ID: 030918.B\030918019.D
Initial wt/vol: 9.9723 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)	75.4	
11097-69-1	PCB-1254 (Aroclor 1254)	43.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	81.1	
1336-36-3	PCB, Total	200	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918019.D
Lab Smp Id: 40150294009 Client Smp ID: CS1-170518-01-BB-12
Inj Date : 09-MAR-2018 17:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294009,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	18125	13079	0.722	0.03		
1.357	9635	7343	0.762	0.02		
1.428	11351	10362	0.913	0.02		
1.537	10706	10093	0.943	0.02		
1.688	9436	7570	0.802	0.02		
2.291	9598	10736	1.119	0.02		
2.311	14207	11693	0.823	0.03		
2.408	24243	21178	0.874	0.05		
2.484	11032460	10743787	0.974	24.00	$ 2 Tetrachloro-m-xylene	
2.789	19645	20287	1.033	0.04		
2.853	37518	22987	0.613	0.07		
2.919	11239	9045	0.805	0.02		
2.974	42597	34310	0.805	0.09		
3.021	37829	36670	0.969	0.08		
3.056	24301	17358	0.714	0.05		
3.317	40276	38478	0.955	0.08		
3.345	26814	23294	0.869	0.05		
3.396	9556	6509	0.681	0.02		
3.435	42070	35810	0.851	0.08		
3.517	79846	74891	0.938	0.16		
3.647	15581	13930	0.894	0.03		
3.731	118787	101328	0.853	0.25		
3.827	519032	337011	0.649	1.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.930	45287	27706	0.612	0.09	
3.992	70160	61362	0.875	0.14	
4.058	46572	34858	0.748	0.09	
4.138	21179	16918	0.799	0.04	
4.215	371831	337087	0.907	0.78	
4.239	121848	148714	1.220	0.25	
4.261	576987	554066	0.960	1.22	6 Aroclor 1248
4.292	907170	790409	0.871	1.92	
4.346	30493	21961	0.720	0.06	
4.417	335220	314281	0.938	0.71	
4.452	169724	139624	0.823	0.35	
4.545	542518	506285	0.933	1.15	6 Aroclor 1248
4.591	65065	52223	0.803	0.13	
4.616	126611	91660	0.724	0.26	
4.652	35472	29772	0.839	0.07	
4.680	50462	37917	0.751	0.10	
4.738	74274	49285	0.664	0.15	
4.768	165702	147803	0.892	0.35	
4.813	310845	271277	0.873	0.65	6 Aroclor 1248
4.849	138046	122765	0.889	0.29	
4.895	769710	411038	0.534	1.63	6 Aroclor 1248
4.957	180689	145518	0.805	0.38	
5.038	247999	226621	0.914	0.52	6 Aroclor 1248
5.058	40402	40802	1.010	0.08	
5.101	579661	459695	0.793	1.22	
5.159	404734	326262	0.806	0.85	7 Aroclor 1254
5.213	419108	346710	0.827	0.88	
5.284	106617	89878	0.843	0.22	
5.311	238847	201927	0.845	0.50	
5.348	102929	115528	1.122	0.21	
5.363	179744	150883	0.839	0.38	
5.406	348984	301008	0.863	0.74	7 Aroclor 1254
5.451	956372	933761	0.976	2.02	
5.478	101241	101808	1.006	0.21	
5.510	766345	677673	0.884	1.62	7 Aroclor 1254
5.578	70575	49604	0.703	0.14	
5.604	120875	85970	0.711	0.25	
5.676	444543	401459	0.903	0.94	
5.710	234989	185136	0.788	0.49	
5.744	220458	171273	0.777	0.46	
5.789	1008987	835101	0.828	2.13	
5.820	192861	102677	0.532	0.40	
5.883	201390	114470	0.568	0.42	
5.931	131202	100762	0.768	0.27	
5.994	457921	419339	0.916	0.97	
6.028	447172	376039	0.841	0.94	7 Aroclor 1254
6.055	469636	405496	0.863	0.99	
6.120	34262	19788	0.578	0.07	
6.169	532594	326276	0.613	1.12	
6.233	97084	99607	1.026	0.20	
6.243	185110	144361	0.780	0.39	
6.300	1563674	1269934	0.812	3.31	8 Aroclor 1260
6.334	167893	151435	0.902	0.35	
6.372	77040	57359	0.745	0.16	
6.432	251334	204187	0.812	0.53	
6.485	37818	44185	1.168	0.08	
6.510	1013092	942086	0.930	2.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.534	264959	272336	1.028	0.56	
6.561	272695	236960	0.869	0.57	
6.605	53703	42895	0.799	0.11	
6.661	120289	104179	0.866	0.25	
6.718	475998	413817	0.869	1.00	
6.758	397694	350401	0.881	0.84	
6.803	302097	271793	0.900	0.64	
6.838	153265	110673	0.722	0.32	
6.913	65531	58325	0.890	0.13	
6.942	325431	305673	0.939	0.69	
7.004	1494208	1371609	0.918	3.16	8 Aroclor 1260
7.036	116679	98001	0.840	0.24	
7.076	33722	28745	0.852	0.07	
7.121	47950	39175	0.817	0.10	
7.252	611548	565723	0.925	1.29	8 Aroclor 1260
7.281	183025	146261	0.799	0.38	
7.339	21115	18070	0.856	0.04	
7.366	17624	24869	1.411	0.03	
7.390	462559	424795	0.918	0.98	
7.444	576369	484364	0.840	1.22	8 Aroclor 1260
7.553	29335	25345	0.864	0.06	
7.624	23175	16615	0.717	0.04	
7.692	139860	139358	0.996	0.29	
7.728	176804	143813	0.813	0.37	
7.766	34996	26511	0.758	0.07	
7.812	153979	95425	0.620	0.32	
7.901	415456	360817	0.868	0.88	8 Aroclor 1260
7.962	50601	30339	0.600	0.10	
8.049	158372	141549	0.894	0.33	
8.275	375847	337535	0.898	0.79	
8.375	22488	15160	0.674	0.04	
8.457	12479	8426	0.675	0.02	
8.572	9580556	8444759	0.881	20.31	$ 12 Decachlorobiphenyl
8.726	52384	42222	0.806	0.11	
8.939	11785	12933	1.097	0.02	
9.057	31086	25523	0.821	0.06	
9.169	49998	45062	0.901	0.10	
9.471	33306	17126	0.514	0.07	
9.962	29741	18021	0.606	0.06	
	47152915	41714581		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918019.D
Lab Smp Id: 40150294009 Client Smp ID: CS1-170518-01-BB-12
Inj Date : 09-MAR-2018 17:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294009,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.972	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	11032459	0.08948	45			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	576986	0.24626	120	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	542518	0.13072	66	0.00- 20.00	94.03	CO
4.813	4.812	0.001	310844	0.15312	77	0.00- 20.00	53.87	CO
4.894	4.879	0.015	769710	0.15280	77	0.00- 20.00	133.40	CO
5.037	5.038	-0.001	247998	0.06911	35	0.00- 20.00	42.98	CO
Average of Peak Concentrations =					75			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	404734	0.07731	39	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	348984	0.08114	41	0.00- 20.00	86.23	BA
5.509	5.510	-0.001	766344	0.09868	49	0.00- 20.00	189.35	BA
6.027	6.027	0.000	447172	0.09183	46	0.00- 20.00	110.49	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					44			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	1563673	0.17644	88	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1494207	0.14921	75	0.00- 20.00	95.56	BA
7.252	7.251	0.001	611548	0.12794	64	0.00- 20.00	39.11	BA
7.443	7.443	0.000	576369	0.19772	99	0.00- 20.00	36.86	BA
7.900	7.901	-0.001	415456	0.15745	79	0.00- 20.00	26.57	BA
Average of Peak Concentrations =					81			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	9580555	0.08745	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\030918.b\030918019.D

Date : 09-MAR-2018 17:21

Client ID: CS1-170518-01-BB-12

Instrument: 40GCSJ.i

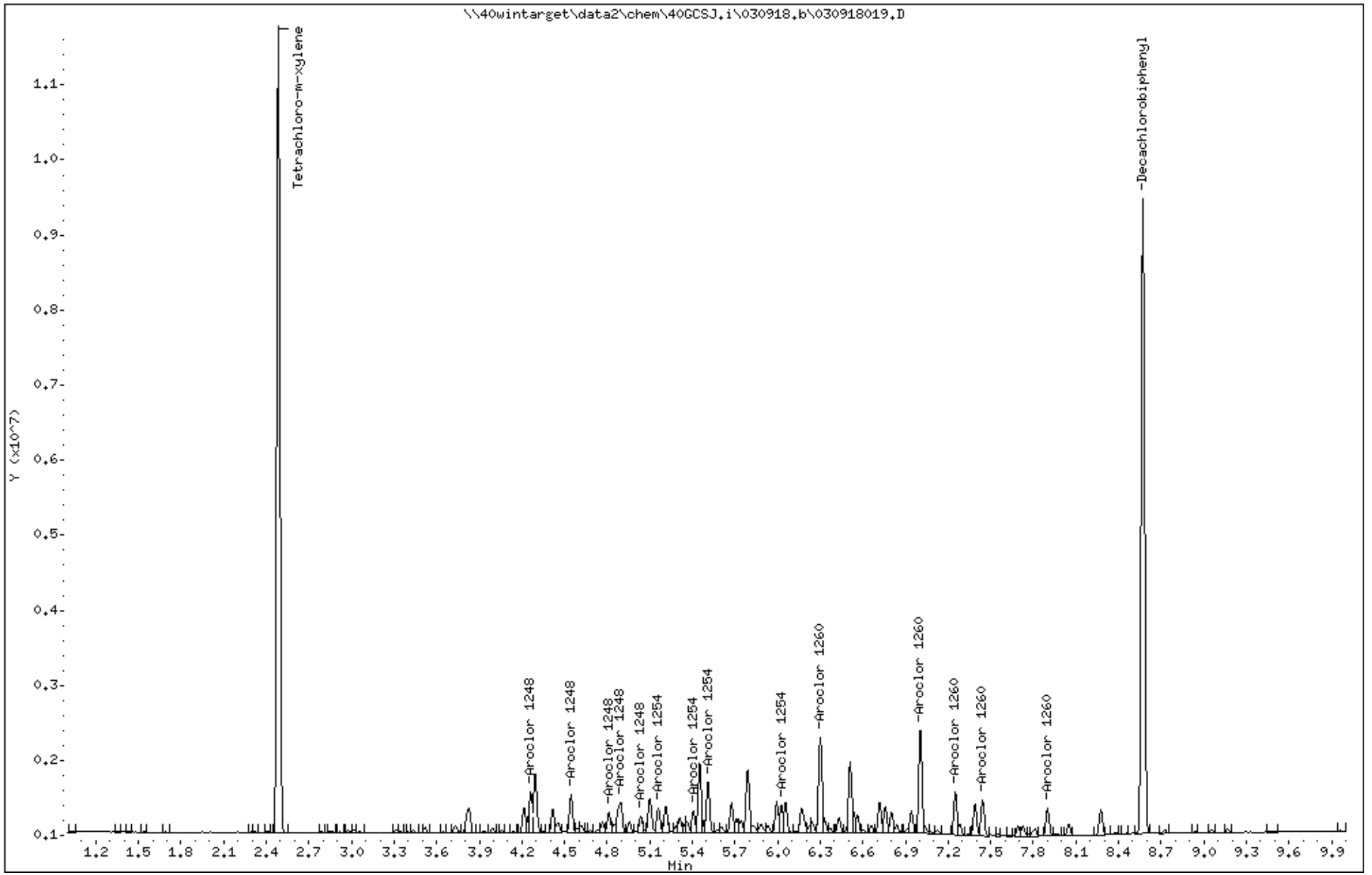
Sample Info: 40150294009,

Volume Injected (uL): 1.0

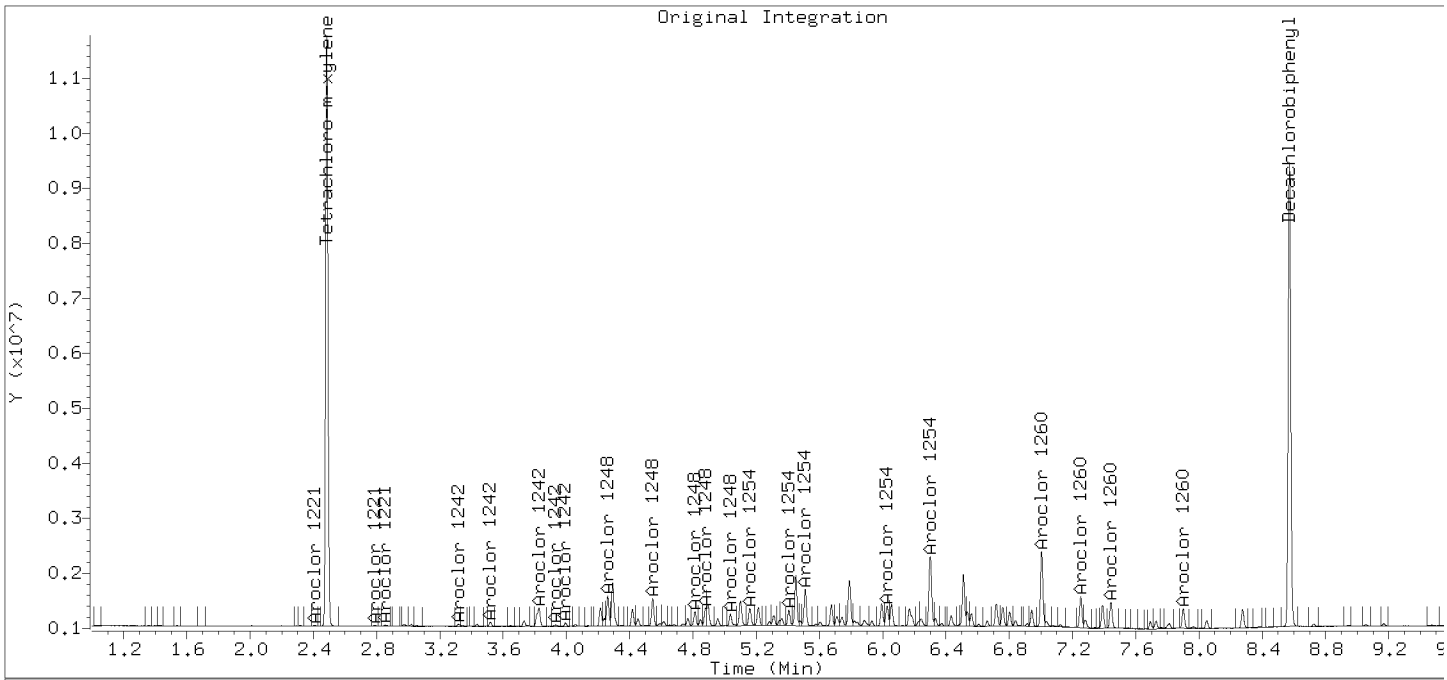
Operator: BLM

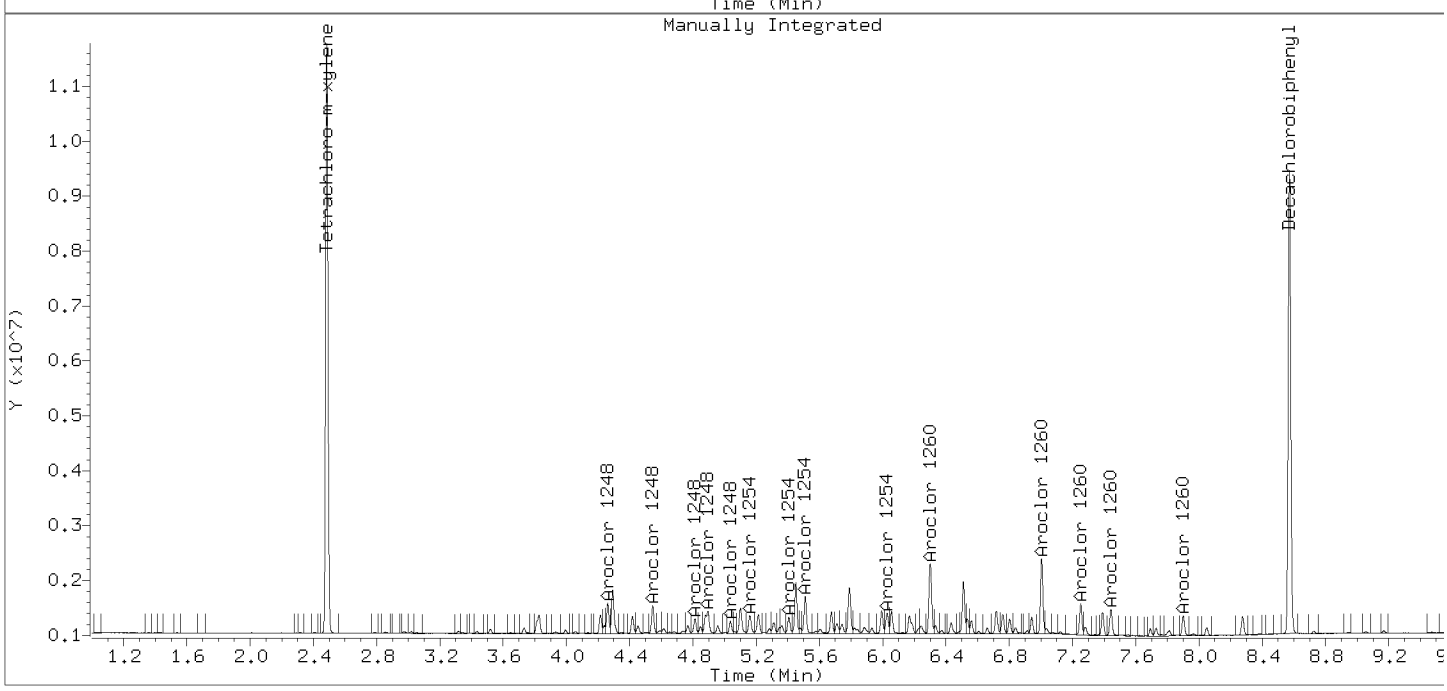
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 17:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	40276	0	
Aroclor 1016	40276	0	
Aroclor 1016	40276	0	
Aroclor 1016	40276	0	
Aroclor 1016	40276	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	37518	0	
Aroclor 1232	37518	0	
Aroclor 1232	37518	0	
Aroclor 1232	37518	0	

Aroclor 1232	37518	0	
Aroclor 1242	40276	0	
Aroclor 1242	40276	0	
Aroclor 1242	40276	0	
Aroclor 1242	40276	0	
Aroclor 1242	40276	0	
Aroclor 1248	563264	576986	CO
Aroclor 1248	563264	576986	CO
Aroclor 1248	563264	576986	CO
Aroclor 1248	563264	576986	CO
Aroclor 1248	563264	576986	CO
Aroclor 1254	356755	404734	BA
Aroclor 1254	356755	404734	BA
Aroclor 1254	356755	404734	BA
Aroclor 1254	356755	404734	BA
Aroclor 1254	356755	404734	BA
Aroclor 1260	1534563	1563673	BA
Aroclor 1260	1534563	1563673	BA
Aroclor 1260	1534563	1563673	BA
Aroclor 1260	1534563	1563673	BA
Aroclor 1260	1534563	1563673	BA
Tetrachloro-m-xylene	11032459	11032459	
Decachlorobiphenyl	9580555	9580555	

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SAMPLE NO.

CS1-170518-01-BB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294010
Date Analyzed: 03/20/2018 13:51
Lab File ID: 032018.B\032018006.D
Initial wt/vol: 9.9856 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	220	
11097-69-1	PCB-1254 (Aroclor 1254)	293	
11096-82-5	PCB-1260 (Aroclor 1260)	148	
1336-36-3	PCB, Total	661	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018006.D
Lab Smp Id: 40150294010 Client Smp ID: CS1-170518-01-BB-11
Inj Date : 20-MAR-2018 13:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294010 x2,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	44395	33558	0.756	0.08		
1.686	17803	14568	0.818	0.03		
1.774	31497	26531	0.842	0.05	1 Aroclor 1221	
2.012	32627	23477	0.720	0.06		
2.409	16171	13712	0.848	0.03	1 Aroclor 1221	
2.485	5453816	5308565	0.973	10.88	$ 2 Tetrachloro-m-xylene	
2.786	16050	10838	0.675	0.03	1 Aroclor 1221	
2.852	20463	14632	0.715	0.03	1 Aroclor 1221	
2.974	26954	21629	0.802	0.05		
3.021	45922	25717	0.560	0.08		
3.319	66158	59991	0.907	0.12		
3.346	26878	25477	0.948	0.05		
3.431	24724	23520	0.951	0.04		
3.520	97137	89261	0.919	0.18		
3.732	138351	114609	0.828	0.26		
3.827	702704	481775	0.686	1.33		
3.928	89017	60963	0.685	0.16		
3.995	123960	115866	0.935	0.23		
4.058	57869	42874	0.741	0.11		
4.139	19780	13207	0.668	0.03		
4.215	412401	359419	0.872	0.78		
4.261	660312	639165	0.968	1.25	6 Aroclor 1248	BA
4.292	1244725	1049758	0.843	2.36		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	491341	470560	0.958	0.93	
4.452	223838	204601	0.914	0.42	
4.508	103382	104232	1.008	0.19	
4.545	726679	680251	0.936	1.38	6 Aroclor 1248
4.588	63297	57925	0.915	0.12	
4.618	125787	112488	0.894	0.23	
4.682	57613	47015	0.816	0.10	
4.739	66321	52978	0.799	0.12	
4.768	156839	149623	0.954	0.29	
4.813	517457	491675	0.950	0.98	6 Aroclor 1248
4.848	160808	151379	0.941	0.30	
4.894	1394523	734166	0.526	2.65	6 Aroclor 1248
4.957	232897	198773	0.853	0.44	
5.037	396225	352500	0.890	0.75	6 Aroclor 1248
5.102	951588	828464	0.871	1.81	
5.160	616361	520121	0.844	1.17	7 Aroclor 1254
5.212	700854	620015	0.885	1.33	
5.284	154312	150589	0.976	0.29	
5.310	336437	291624	0.867	0.64	
5.363	383425	351676	0.917	0.73	
5.407	817849	749955	0.917	1.55	7 Aroclor 1254
5.450	1322418	1170315	0.885	2.51	
5.478	132979	141395	1.063	0.25	
5.510	1741546	1547281	0.888	3.31	7 Aroclor 1254
5.578	73775	68519	0.929	0.14	
5.604	223975	192531	0.860	0.42	
5.675	588623	552929	0.939	1.12	
5.710	399759	323002	0.808	0.76	
5.744	522549	399478	0.764	0.99	
5.791	3244337	2537622	0.782	6.17	
5.884	371594	267288	0.719	0.70	
5.932	230479	183831	0.798	0.43	
5.994	849261	792890	0.934	1.61	
6.028	1527722	1284820	0.841	2.90	7 Aroclor 1254
6.056	885432	751708	0.849	1.68	
6.169	919912	723189	0.786	1.75	
6.227	352450	380607	1.080	0.67	
6.241	470670	409538	0.870	0.89	
6.300	4004835	3282764	0.820	7.62	7 Aroclor 1254
6.334	608057	554375	0.912	1.15	
6.374	306227	254453	0.831	0.58	
6.432	329040	248927	0.757	0.62	
6.510	1078211	1005730	0.933	2.05	
6.536	1059884	965387	0.911	2.01	
6.560	299963	274939	0.917	0.57	
6.604	214392	184514	0.861	0.40	
6.661	92754	82700	0.892	0.17	
6.719	478291	415575	0.869	0.91	
6.759	446626	408678	0.915	0.85	
6.801	824022	747888	0.908	1.56	
6.840	263046	198241	0.754	0.50	
6.913	49119	46796	0.953	0.09	
6.942	327292	295218	0.902	0.62	
7.004	1486189	1352468	0.910	2.82	8 Aroclor 1260
7.035	98560	100469	1.019	0.18	
7.073	34041	33656	0.989	0.06	
7.121	49557	37919	0.765	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.251	810786	756957	0.934	1.54	8 Aroclor 1260
7.281	219606	174389	0.794	0.41	
7.336	18244	13951	0.765	0.03	
7.389	485513	395787	0.815	0.92	
7.442	469785	416702	0.887	0.89	8 Aroclor 1260
7.553	43907	36542	0.832	0.08	
7.691	126669	114279	0.902	0.24	
7.727	164223	148297	0.903	0.31	
7.765	33878	24360	0.719	0.06	
7.812	132683	86367	0.651	0.25	
7.862	11528	10734	0.931	0.02	
7.900	298195	269012	0.902	0.56	8 Aroclor 1260
7.960	49527	28832	0.582	0.09	
8.049	143913	129856	0.902	0.27	
8.275	347865	299192	0.860	0.66	
8.375	36762	20787	0.565	0.06	
8.451	27718	15039	0.543	0.05	
8.571	4865021	4206702	0.865	9.26	$ 12 Decachlorobiphenyl
8.692	11405	7097	0.622	0.02	
8.727	51085	41463	0.812	0.09	
8.936	27199	17800	0.654	0.05	
8.991	10909	9675	0.887	0.02	
9.058	27478	21583	0.785	0.05	
9.169	111376	81460	0.731	0.21	
9.465	19597	14339	0.732	0.03	
9.957	23231	15834	0.682	0.04	
	52523237	45464398		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018006.D
Lab Smp Id: 40150294010 Client Smp ID: CS1-170518-01-BB-11
Inj Date : 20-MAR-2018 13:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294010 x2,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Qualifier signal(s) failed ratio test.

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

2.484	2.484	0.000	5453816	0.04423	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	660312	0.28183	280	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	726678	0.17509	180	0.00- 20.00	110.05	BA
4.812	4.812	0.000	517457	0.25489	260	0.00- 20.00	78.37	BA
4.894	4.879	0.015	1394522	0.27683	280	0.00- 20.00	211.19	BA
5.036	5.038	-0.002	396225	0.11041	110	0.00- 20.00	60.01	BA
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	616361	0.11773	120	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	817848	0.19015	190	0.00- 20.00	132.69	BA
5.510	5.510	0.000	1741546	0.22425	220	0.00- 20.00	282.55	BA
6.027	6.027	0.000	1527722	0.31372	310	0.00- 20.00	247.86	BA
6.299	6.299	0.000	4004835	0.61546	620	0.00- 20.00	649.75	BA
Average of Peak Concentrations =					290			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	1486189	0.14841	150	0.00- 20.00	39.53	CO
7.250	7.251	-0.001	810786	0.16963	170	0.00- 20.00	20.25	CO
7.441	7.443	-0.002	469785	0.16116	160	0.00- 20.00	11.73	CO
7.900	7.901	-0.001	298194	0.11301	110	0.00- 20.00	7.45	CO
Average of Peak Concentrations =					150			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4865020	0.04441	44			

QC Flag Legend

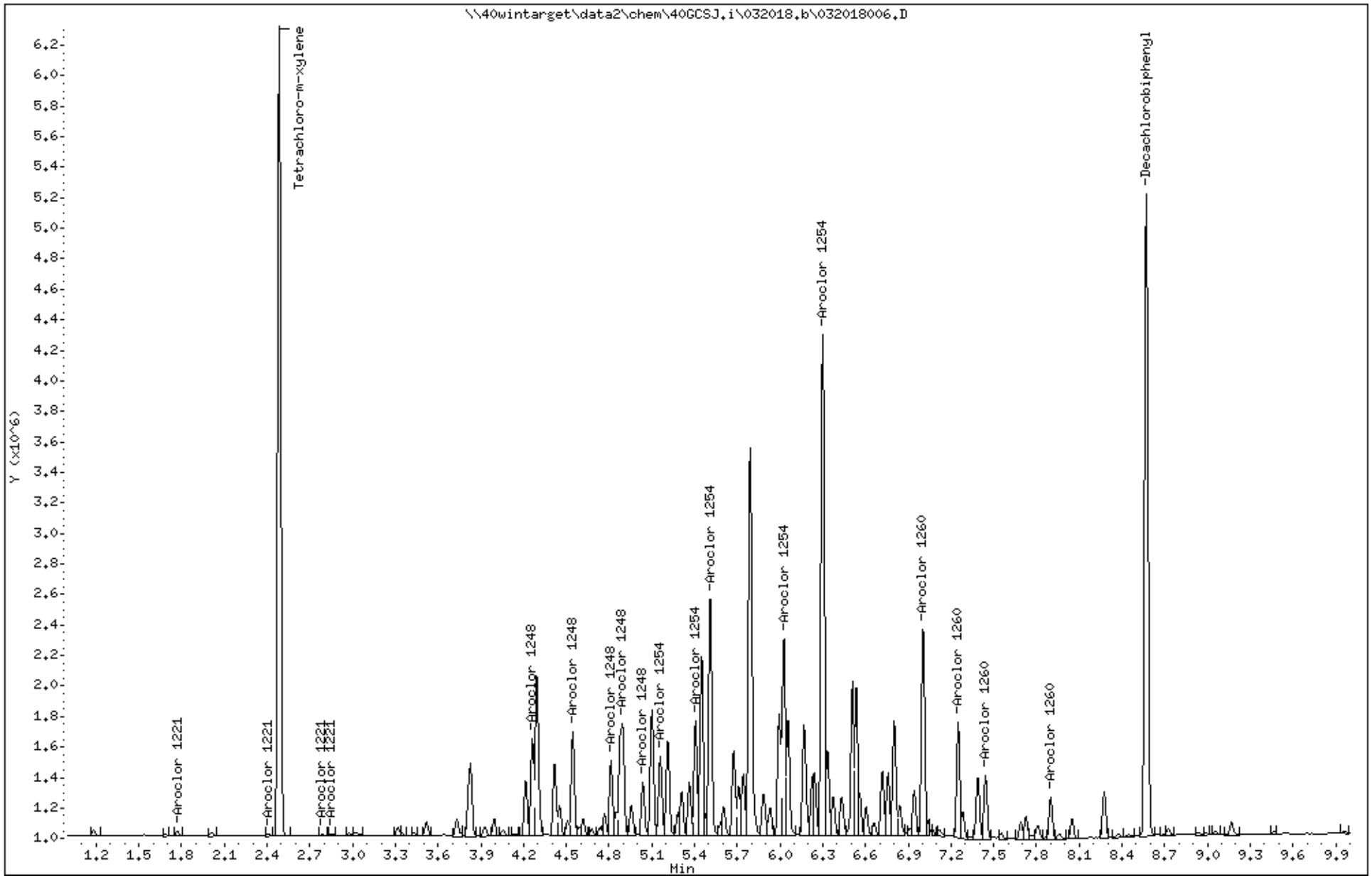
M - Compound response manually integrated.

Review Codes Legend

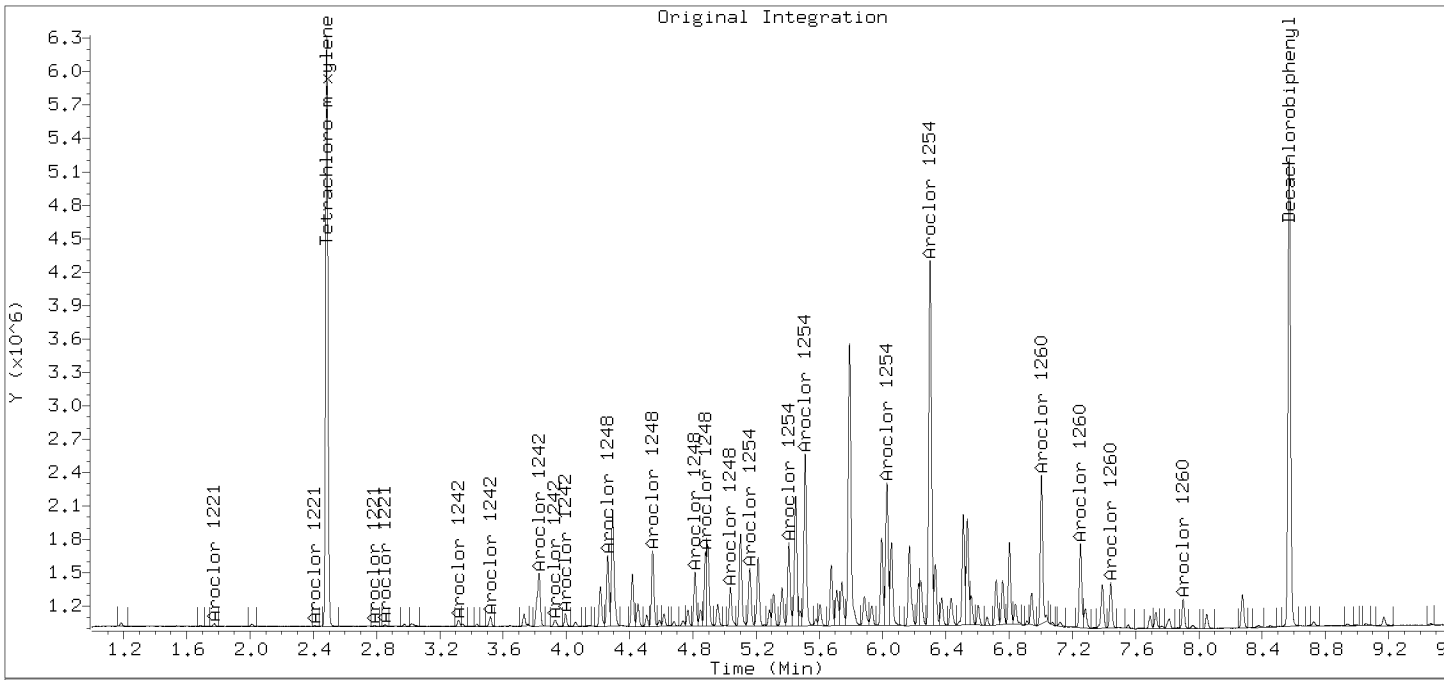
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

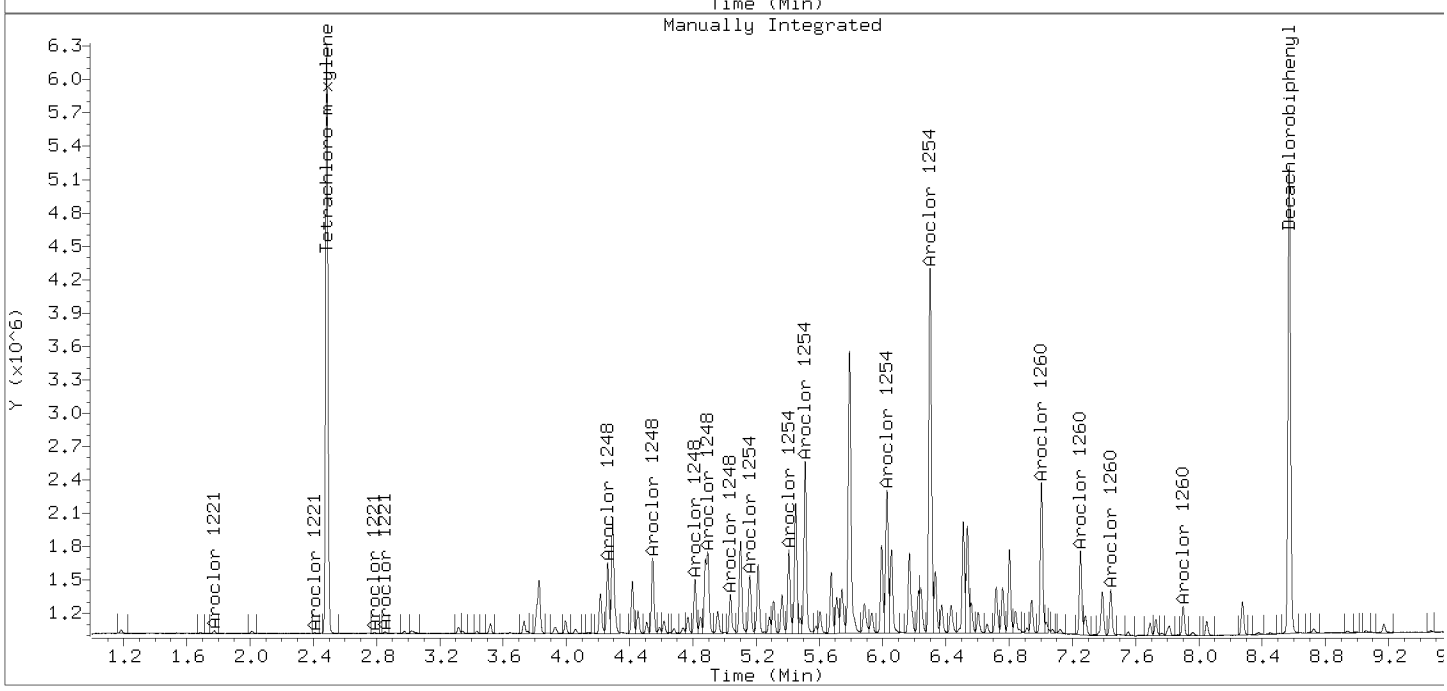
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018006.D
Date : 20-MAR-2018 13:51
Client ID: CS1-170518-01-BB-11
Sample Info: 40150294010 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 13:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66157	0	
Aroclor 1016	66157	0	
Aroclor 1016	66157	0	
Aroclor 1016	66157	0	
Aroclor 1016	66157	0	
Aroclor 1221	31496	0	
Aroclor 1221	31496	0	
Aroclor 1221	31496	0	
Aroclor 1221	31496	0	
Aroclor 1221	31496	0	
Aroclor 1232	20463	0	
Aroclor 1232	20463	0	
Aroclor 1232	20463	0	
Aroclor 1232	20463	0	

Aroclor 1232	20463	0	
Aroclor 1242	66157	0	
Aroclor 1242	66157	0	
Aroclor 1242	66157	0	
Aroclor 1242	66157	0	
Aroclor 1242	66157	0	
Aroclor 1248	651774	660312	BA
Aroclor 1248	651774	660312	BA
Aroclor 1248	651774	660312	BA
Aroclor 1248	651774	660312	BA
Aroclor 1248	651774	660312	BA
Aroclor 1254	601090	616361	BA
Aroclor 1254	601090	616361	BA
Aroclor 1254	601090	616361	BA
Aroclor 1254	601090	616361	BA
Aroclor 1254	601090	616361	BA
Aroclor 1260	3981010	0	CO
Aroclor 1260	3981010	0	CO
Aroclor 1260	3981010	0	CO
Aroclor 1260	3981010	0	CO
Aroclor 1260	3981010	0	CO
Tetrachloro-m-xylene	5453816	5453816	
Decachlorobiphenyl	4865020	4865020	

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SAMPLE NO.

CS1-170518-01-BB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294011
Date Analyzed: 03/09/2018 17:53
Lab File ID: 030918.B\030918021.D
Initial wt/vol: 10.0213 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)	109	
11097-69-1	PCB-1254 (Aroclor 1254)	52.1	
11096-82-5	PCB-1260 (Aroclor 1260)	53.7	
1336-36-3	PCB, Total	215	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918021.D
Lab Smp Id: 40150294011 Client Smp ID: CS1-170518-01-BB-10
Inj Date : 09-MAR-2018 17:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294011,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.021	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.067	9595	7725	0.805	0.02		
1.352	10306	8400	0.815	0.02		
1.429	12853	10432	0.812	0.02		
1.539	17140	12101	0.706	0.03		
2.012	12884	8684	0.674	0.02		
2.171	13823	13032	0.943	0.02		
2.205	16537	9008	0.545	0.03		
2.294	39045	38018	0.974	0.08		
2.316	20004	19601	0.980	0.04		
2.410	29522	26465	0.896	0.06		
2.484	11014023	10827231	0.983	23.83	$ 2 Tetrachloro-m-xylene	
2.550	10805	7430	0.688	0.02		
2.786	23686	19027	0.803	0.04		
2.856	42526	26727	0.628	0.08		
2.920	13947	10125	0.726	0.02		
2.976	50241	34914	0.695	0.10		
3.019	45439	43821	0.964	0.09		
3.054	12966	11079	0.854	0.02		
3.320	43884	40914	0.932	0.09		
3.343	23514	22717	0.966	0.04		
3.401	11844	13050	1.102	0.02		
3.434	32343	30157	0.932	0.06		
3.520	122123	110313	0.903	0.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.647	21675	17167	0.792	0.04	
3.733	230985	203279	0.880	0.48	
3.827	1008116	633569	0.628	2.12	
3.923	45645	27749	0.608	0.09	
3.995	98308	89511	0.911	0.20	
4.057	69683	50975	0.732	0.14	
4.134	23165	16926	0.731	0.04	
4.215	616098	539687	0.876	1.29	
4.262	996265	961401	0.965	2.09	6 Aroclor 1248
4.293	1380405	1189990	0.862	2.90	
4.350	37838	24563	0.649	0.07	
4.418	530817	509403	0.960	1.11	
4.452	248357	212624	0.856	0.52	
4.546	768756	728984	0.948	1.62	6 Aroclor 1248
4.590	76657	65987	0.861	0.16	
4.618	195109	138410	0.709	0.41	
4.680	81504	62979	0.773	0.17	
4.738	94289	66098	0.701	0.19	
4.768	183962	158876	0.864	0.38	
4.812	418270	382954	0.916	0.88	6 Aroclor 1248
4.847	247079	229216	0.928	0.52	
4.895	1029427	519061	0.504	2.16	6 Aroclor 1248
4.957	239936	191983	0.800	0.50	
5.036	248791	226643	0.911	0.52	6 Aroclor 1248
5.100	678668	562641	0.829	1.43	
5.160	570000	476230	0.835	1.20	7 Aroclor 1254
5.213	599014	512327	0.855	1.26	
5.254	47604	37357	0.785	0.10	
5.284	121314	108183	0.892	0.25	
5.311	260514	213210	0.818	0.54	
5.363	280443	203033	0.724	0.59	
5.407	419835	372007	0.886	0.88	7 Aroclor 1254
5.451	974324	894707	0.918	2.05	
5.478	99642	97655	0.980	0.21	
5.510	950348	841574	0.886	2.00	7 Aroclor 1254
5.578	81350	53966	0.663	0.17	
5.604	144865	109550	0.756	0.30	
5.676	301794	262816	0.871	0.63	
5.709	196534	158002	0.804	0.41	
5.742	243275	183107	0.753	0.51	
5.789	985889	818039	0.830	2.07	
5.822	211620	138088	0.653	0.44	
5.886	195009	107462	0.551	0.41	
5.933	126480	100822	0.797	0.26	
5.994	396325	354128	0.894	0.83	
6.027	431863	365091	0.845	0.91	7 Aroclor 1254
6.056	632984	541547	0.856	1.33	
6.121	48056	25451	0.530	0.10	
6.169	293575	163105	0.556	0.61	
6.244	264824	139291	0.526	0.55	
6.299	1346319	1122148	0.833	2.83	8 Aroclor 1260
6.333	139401	119736	0.859	0.29	
6.373	76819	50010	0.651	0.16	
6.433	205885	152686	0.742	0.43	
6.483	27243	30825	1.131	0.05	
6.510	662117	604492	0.913	1.39	
6.535	264445	249290	0.943	0.55	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.561	179573	153419	0.854	0.37	
6.606	63304	42136	0.666	0.13	
6.660	61632	47582	0.772	0.12	
6.718	222926	179247	0.804	0.46	
6.759	255276	225427	0.883	0.53	
6.803	205368	177184	0.863	0.43	
6.838	137574	98487	0.716	0.28	
6.914	42166	37137	0.881	0.08	
6.942	225191	204409	0.908	0.47	
7.004	798857	747185	0.935	1.68	8 Aroclor 1260
7.035	67691	57629	0.851	0.14	
7.123	37461	25166	0.672	0.07	
7.251	333544	292059	0.876	0.70	8 Aroclor 1260
7.282	120000	88974	0.741	0.25	
7.340	26199	22550	0.861	0.05	
7.389	378959	327453	0.864	0.79	
7.443	394982	344073	0.871	0.83	8 Aroclor 1260
7.494	41201	19079	0.463	0.08	
7.549	14238	15030	1.056	0.03	
7.583	12541	11814	0.942	0.02	
7.623	29314	14613	0.498	0.06	
7.661	8767	10585	1.207	0.01	
7.689	85699	81269	0.948	0.18	
7.727	167896	144898	0.863	0.35	
7.764	24449	20399	0.834	0.05	
7.808	99527	58911	0.592	0.20	
7.900	266229	234114	0.879	0.56	8 Aroclor 1260
7.962	42058	23917	0.569	0.08	
8.049	84095	78569	0.934	0.17	
8.274	371649	343465	0.924	0.78	
8.378	18163	13929	0.767	0.03	
8.571	9614841	8516489	0.886	20.26	$ 12 Decachlorobiphenyl
8.727	31736	26926	0.848	0.06	
8.943	20443	13921	0.681	0.04	
9.054	19637	18147	0.924	0.04	
9.170	79170	66541	0.840	0.16	
9.471	32012	19745	0.617	0.06	
9.963	32487	19983	0.615	0.06	
	47445415	41590043		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918021.D
Lab Smp Id: 40150294011 Client Smp ID: CS1-170518-01-BB-10
Inj Date : 09-MAR-2018 17:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294011,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.021	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	11014023	0.08933	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	996264	0.42521	210	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	768755	0.18523	92	0.00- 20.00	77.16	BA
4.812	4.812	0.000	418269	0.20604	100	0.00- 20.00	41.98	BA
4.894	4.879	0.015	1029427	0.20435	100	0.00- 20.00	103.33	BA
5.035	5.038	-0.003	248790	0.06933	34	0.00- 20.00	24.97	BA
Average of Peak Concentrations =					110			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	570000	0.10888	54	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	419834	0.09761	49	0.00- 20.00	73.66	BA
5.509	5.510	-0.001	950347	0.12237	61	0.00- 20.00	166.73	BA
6.026	6.027	-0.001	431863	0.08868	44	0.00- 20.00	75.77	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					52			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	1346319	0.15191	76	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	798856	0.07977	40	0.00- 20.00	59.34	BA
7.250	7.251	-0.001	333543	0.06978	35	0.00- 20.00	24.77	BA
7.442	7.443	-0.001	394981	0.13549	68	0.00- 20.00	29.34	BA
7.900	7.901	-0.001	266229	0.10089	50	0.00- 20.00	19.77	BA
Average of Peak Concentrations =					54			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	9614840	0.08776	44			

QC Flag Legend

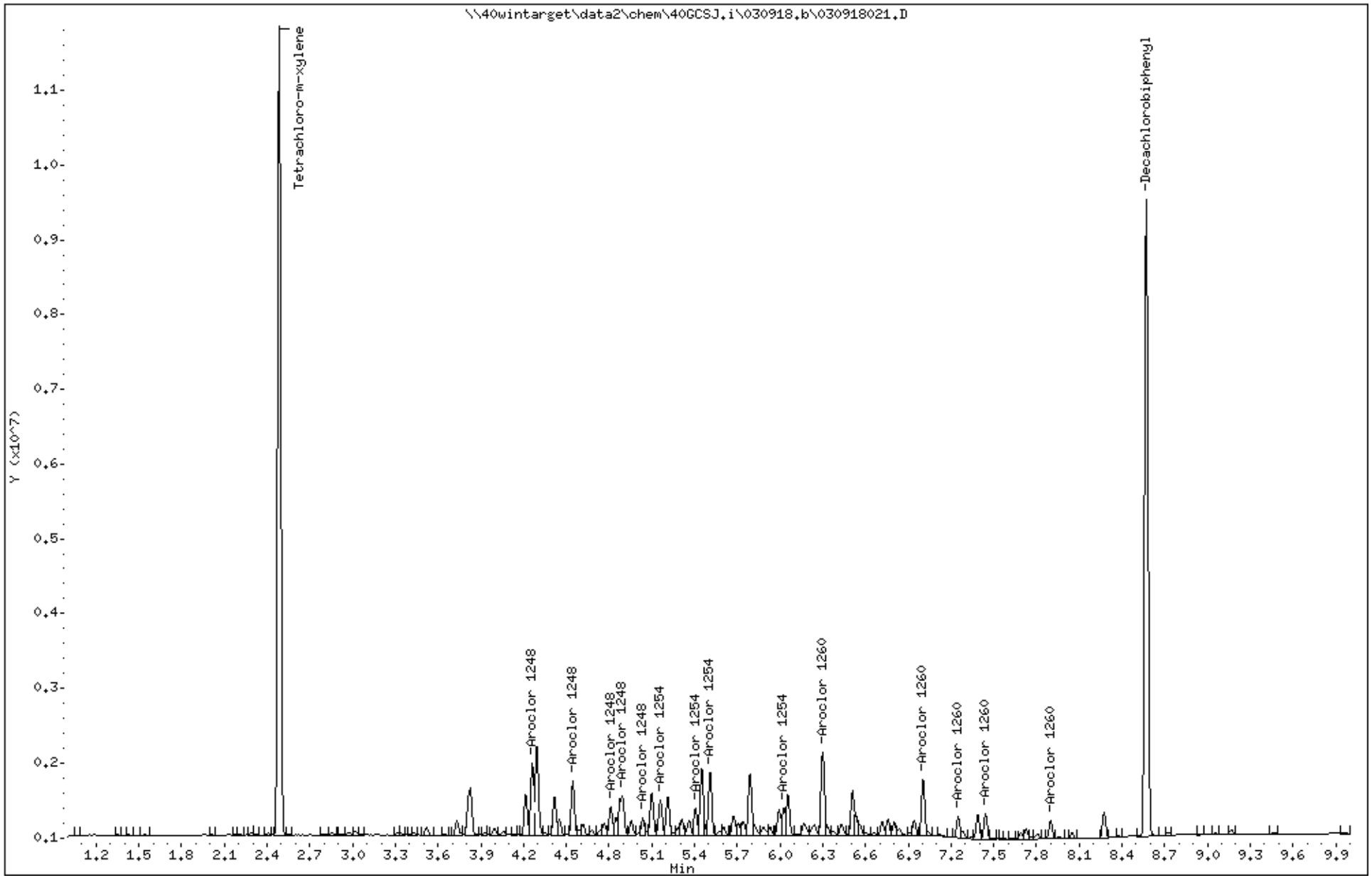
M - Compound response manually integrated.

Review Codes Legend

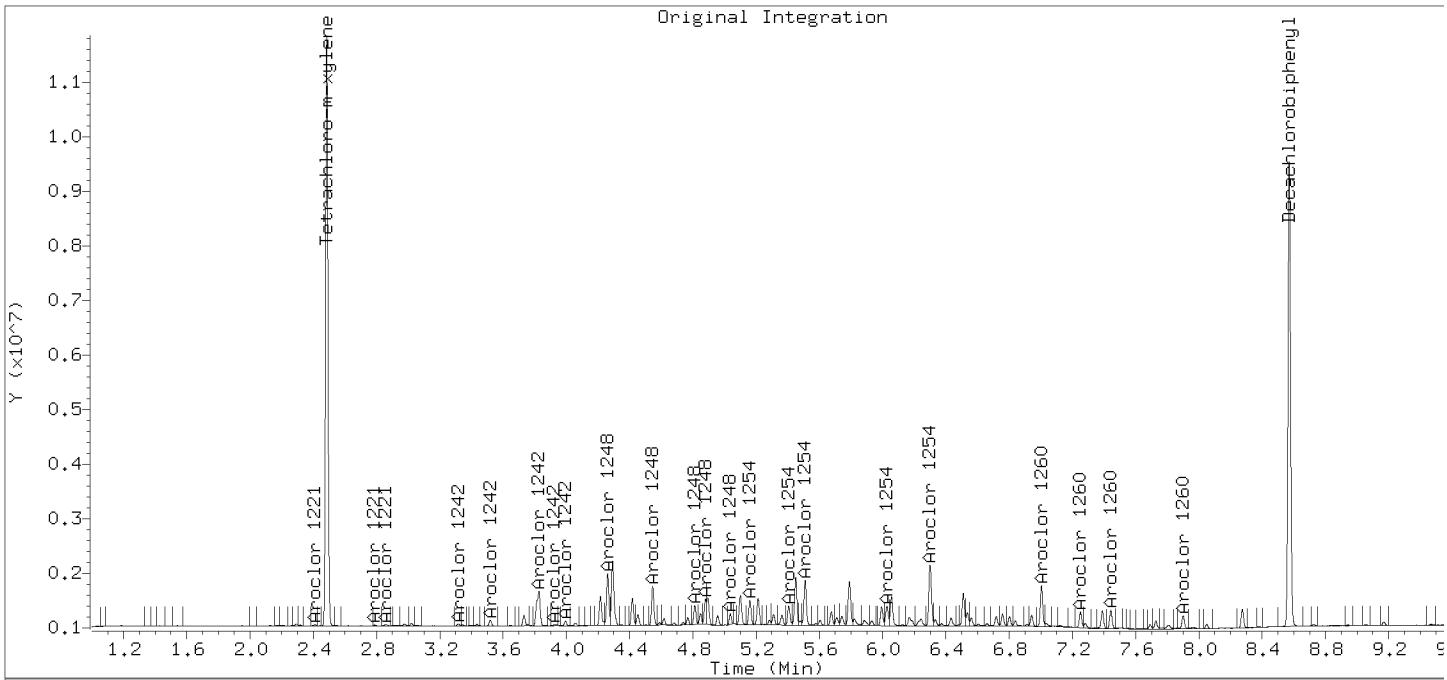
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

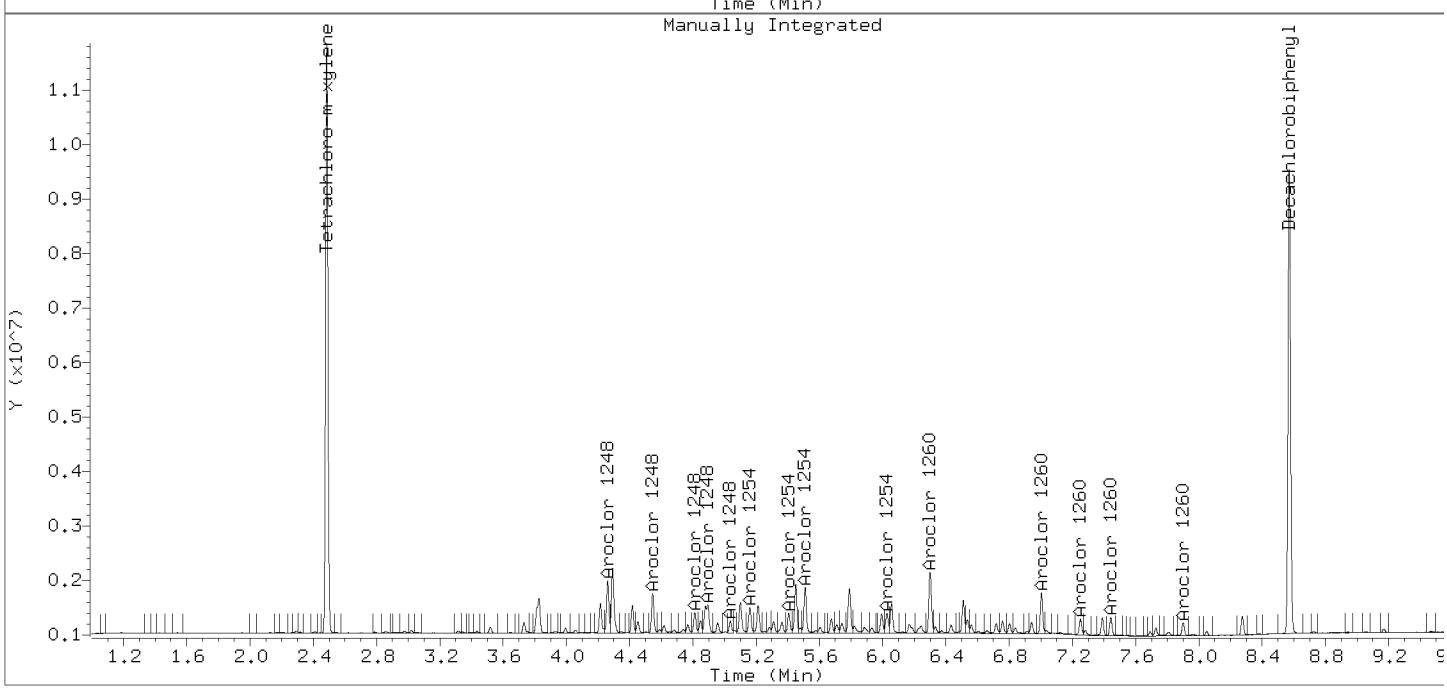
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918021.D
Date : 09-MAR-2018 17:53
Client ID: CS1-170518-01-BB-10
Sample Info: 40150294011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 17:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	43883	0	
Aroclor 1016	43883	0	
Aroclor 1016	43883	0	
Aroclor 1016	43883	0	
Aroclor 1016	43883	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	42526	0	
Aroclor 1232	42526	0	
Aroclor 1232	42526	0	
Aroclor 1232	42526	0	

Aroclor 1232	42526	0	
Aroclor 1242	43883	0	
Aroclor 1242	43883	0	
Aroclor 1242	43883	0	
Aroclor 1242	43883	0	
Aroclor 1242	43883	0	
Aroclor 1248	977642	996264	BA
Aroclor 1248	977642	996264	BA
Aroclor 1248	977642	996264	BA
Aroclor 1248	977642	996264	BA
Aroclor 1248	977642	996264	BA
Aroclor 1254	491363	570000	BA
Aroclor 1254	491363	570000	BA
Aroclor 1254	491363	570000	BA
Aroclor 1254	491363	570000	BA
Aroclor 1254	491363	570000	BA
Aroclor 1260	1323483	1346319	BA
Aroclor 1260	1323483	1346319	BA
Aroclor 1260	1323483	1346319	BA
Aroclor 1260	1323483	1346319	BA
Aroclor 1260	1323483	1346319	BA
Tetrachloro-m-xylene	11014023	11014023	
Decachlorobiphenyl	9614840	9614840	

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SAMPLE NO.

CS1-170518-01-BB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294012
Date Analyzed: 03/09/2018 18:09
Lab File ID: 030918.B\030918022.D
Initial wt/vol: 10.0001 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)	174	
11097-69-1	PCB-1254 (Aroclor 1254)	99.3	
11096-82-5	PCB-1260 (Aroclor 1260)	89.2	
1336-36-3	PCB, Total	363	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918022.D
Lab Smp Id: 40150294012 Client Smp ID: CS1-170518-01-BB-09
Inj Date : 09-MAR-2018 18:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294012,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.035	14139	9433	0.667	0.02		
1.078	12703	7829	0.616	0.01		
1.427	10075	9277	0.921	0.01		
1.536	10260	9057	0.883	0.01		
2.171	14068	12584	0.895	0.02		
2.196	15144	11007	0.727	0.02		
2.292	56827	48253	0.849	0.08		
2.410	30062	27943	0.930	0.04		
2.485	10614316	10304720	0.971	16.84	$ 2 Tetrachloro-m-xylene	
2.787	23974	20251	0.845	0.03		
2.856	38747	24938	0.644	0.05		
2.974	54401	45990	0.845	0.08		
3.021	44662	39782	0.891	0.06		
3.318	48471	44373	0.915	0.07		
3.343	24651	24052	0.976	0.03		
3.397	11329	9883	0.872	0.01		
3.431	36660	35064	0.956	0.05		
3.520	164757	150909	0.916	0.25		
3.646	33300	26507	0.796	0.05		
3.731	363167	324743	0.894	0.55		
3.827	1360759	840133	0.617	2.08		
3.892	14069	11871	0.844	0.02		
3.925	69902	41462	0.593	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.996	118434	113727	0.960	0.18	
4.057	78796	59948	0.761	0.12	
4.137	19516	15378	0.788	0.02	
4.161	27475	18411	0.670	0.04	
4.215	744946	651834	0.875	1.14	
4.262	1482473	1413483	0.953	2.27	6 Aroclor 1248
4.292	2343787	2054338	0.877	3.58	
4.348	37067	25617	0.691	0.05	
4.418	751648	708122	0.942	1.15	
4.452	297084	270543	0.911	0.45	
4.546	1274424	1206930	0.947	1.95	6 Aroclor 1248
4.589	123877	113380	0.915	0.18	
4.618	255908	229596	0.897	0.39	
4.680	153724	105832	0.688	0.23	
4.738	132350	109782	0.829	0.20	
4.767	274296	252012	0.919	0.42	
4.813	663344	638686	0.963	1.01	6 Aroclor 1248
4.847	240074	228564	0.952	0.36	
4.895	1793498	961381	0.536	2.74	6 Aroclor 1248
4.957	379881	338257	0.890	0.58	
5.037	436737	423481	0.970	0.66	6 Aroclor 1248
5.053	65849	69939	1.062	0.10	
5.101	1216453	1060580	0.872	1.86	
5.160	951583	801394	0.842	1.45	7 Aroclor 1254
5.213	1001538	849057	0.848	1.53	
5.255	22233	27188	1.223	0.03	
5.284	213042	196075	0.920	0.32	
5.310	460770	395107	0.857	0.70	
5.362	447965	374418	0.836	0.68	
5.407	815756	743204	0.911	1.24	7 Aroclor 1254
5.451	1907923	1739510	0.912	2.92	
5.479	183347	184174	1.005	0.28	
5.509	1806188	1638436	0.907	2.76	7 Aroclor 1254
5.576	126787	111375	0.878	0.19	
5.604	242697	196230	0.809	0.37	
5.675	731028	688880	0.942	1.11	
5.710	404519	334629	0.827	0.61	
5.742	441653	358523	0.812	0.67	
5.790	1935685	1583148	0.818	2.96	
5.822	239926	204514	0.852	0.36	
5.884	341149	225199	0.660	0.52	
5.932	228674	192992	0.844	0.35	
5.993	761148	717453	0.943	1.16	
6.027	926969	799490	0.862	1.41	7 Aroclor 1254
6.056	1217410	1087481	0.893	1.86	
6.117	24243	16102	0.664	0.03	
6.169	615067	344822	0.561	0.94	
6.227	131774	176515	1.340	0.20	
6.242	338956	251647	0.742	0.51	
6.301	2728008	2327853	0.853	4.17	8 Aroclor 1260
6.333	247972	238082	0.960	0.37	
6.373	146463	109589	0.748	0.22	
6.432	375197	304675	0.812	0.57	
6.485	34031	42291	1.243	0.05	
6.509	1281663	1177739	0.919	1.96	
6.535	557565	516098	0.926	0.85	
6.561	289769	266746	0.921	0.44	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.605	98306	77997	0.793	0.15	
6.660	93190	83227	0.893	0.14	
6.717	471314	412554	0.875	0.72	
6.758	453747	415421	0.916	0.69	
6.802	373590	348495	0.933	0.57	
6.839	225198	171587	0.762	0.34	
6.911	82111	66061	0.805	0.12	
6.942	380784	360931	0.948	0.58	
7.005	1267755	1172399	0.925	1.94	8 Aroclor 1260
7.036	115727	94950	0.820	0.17	
7.076	40070	32473	0.810	0.06	
7.121	55959	46058	0.823	0.08	
7.251	598305	557354	0.932	0.91	8 Aroclor 1260
7.282	185918	146635	0.789	0.28	
7.341	21411	18040	0.843	0.03	
7.389	565323	469767	0.831	0.86	
7.442	543859	479729	0.882	0.83	8 Aroclor 1260
7.496	38269	21178	0.553	0.05	
7.554	41126	22425	0.545	0.06	
7.610	17521	10328	0.589	0.02	
7.691	128657	125222	0.973	0.19	
7.728	217109	187416	0.863	0.33	
7.764	46398	30710	0.662	0.07	
7.814	174381	120896	0.693	0.26	
7.900	385800	303844	0.788	0.59	8 Aroclor 1260
7.958	61454	37628	0.612	0.09	
8.049	206200	187919	0.911	0.31	
8.130	10118	9355	0.925	0.01	
8.181	30100	20219	0.672	0.04	
8.274	423965	378272	0.892	0.64	
8.320	19132	15887	0.830	0.02	
8.379	50398	34303	0.681	0.07	
8.571	9120421	8144454	0.893	13.96	$ 12 Decachlorobiphenyl
8.639	20175	14388	0.713	0.03	
8.727	87341	58475	0.670	0.13	
8.940	61194	43234	0.707	0.09	
8.999	19012	10508	0.553	0.02	
9.055	41706	35384	0.848	0.06	
9.168	118887	108327	0.911	0.18	
9.466	114884	67482	0.587	0.17	
9.962	124445	75595	0.607	0.19	
	65288039	57387645		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918022.D
Lab Smp Id: 40150294012 Client Smp ID: CS1-170518-01-BB-09
Inj Date : 09-MAR-2018 18:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294012,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10614316	0.08609	43			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1482473	0.63273	320	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1274423	0.30707	150	0.00- 20.00	85.97	CO
4.812	4.812	0.000	663343	0.32676	160	0.00- 20.00	44.75	CO
4.894	4.879	0.015	1793497	0.35603	180	0.00- 20.00	120.98	CO
5.036	5.038	-0.002	436736	0.12170	61	0.00- 20.00	29.46	CO
			Average of Peak Concentrations =		170			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	951583	0.18176	91	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	815756	0.18966	95	0.00- 20.00	85.73	BA
5.509	5.510	-0.001	1806188	0.23257	120	0.00- 20.00	189.81	BA
6.027	6.027	0.000	926968	0.19035	95	0.00- 20.00	97.41	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		99			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	2728008	0.30782	150	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1267754	0.12659	63	0.00- 20.00	46.47	BA
7.250	7.251	-0.001	598305	0.12517	62	0.00- 20.00	21.93	BA
7.441	7.443	-0.002	543858	0.18657	93	0.00- 20.00	19.94	BA
7.900	7.901	-0.001	385799	0.14621	73	0.00- 20.00	14.14	BA
			Average of Peak Concentrations =		89			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9120421	0.08325	42			

QC Flag Legend

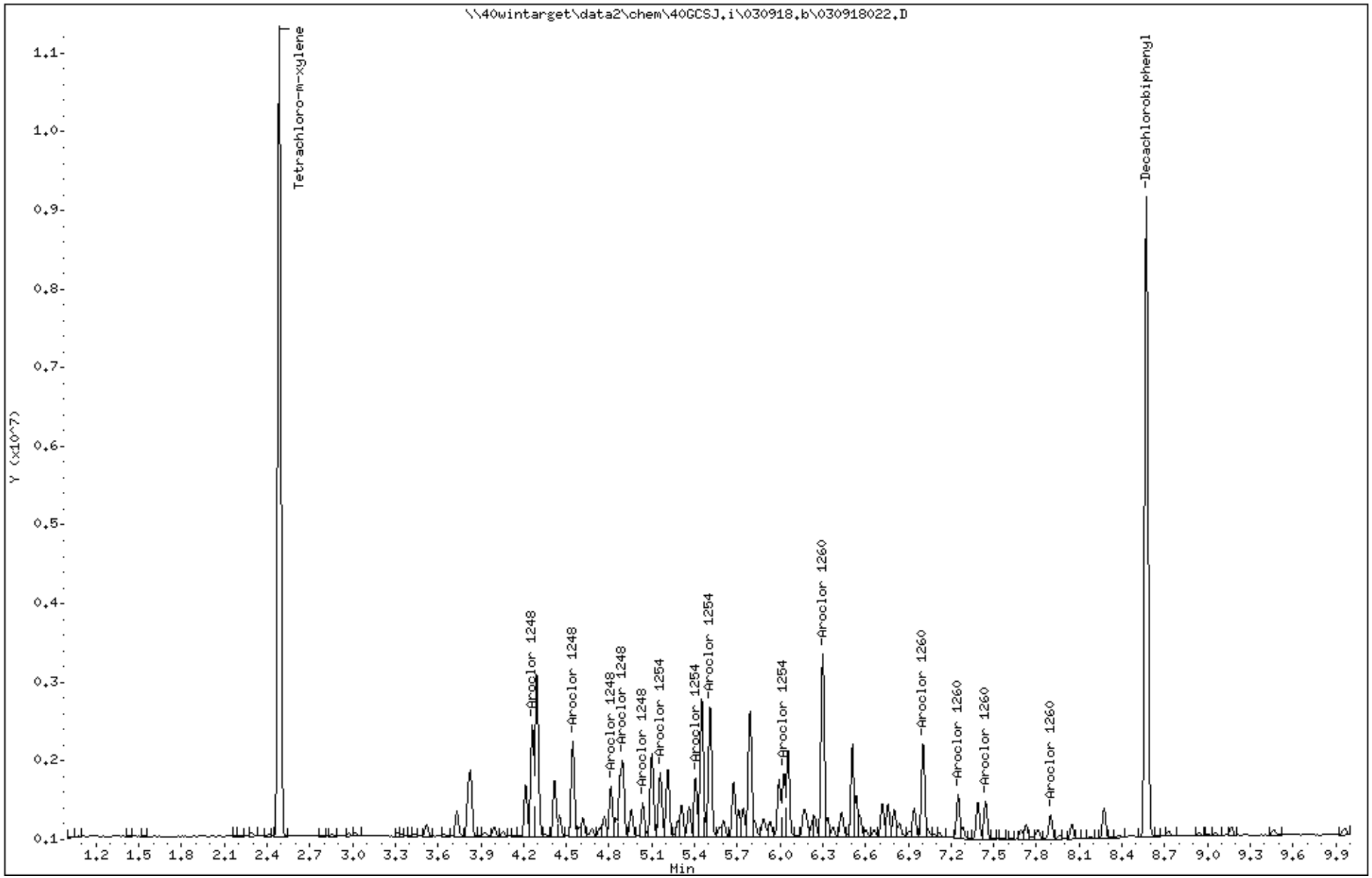
M - Compound response manually integrated.

Review Codes Legend

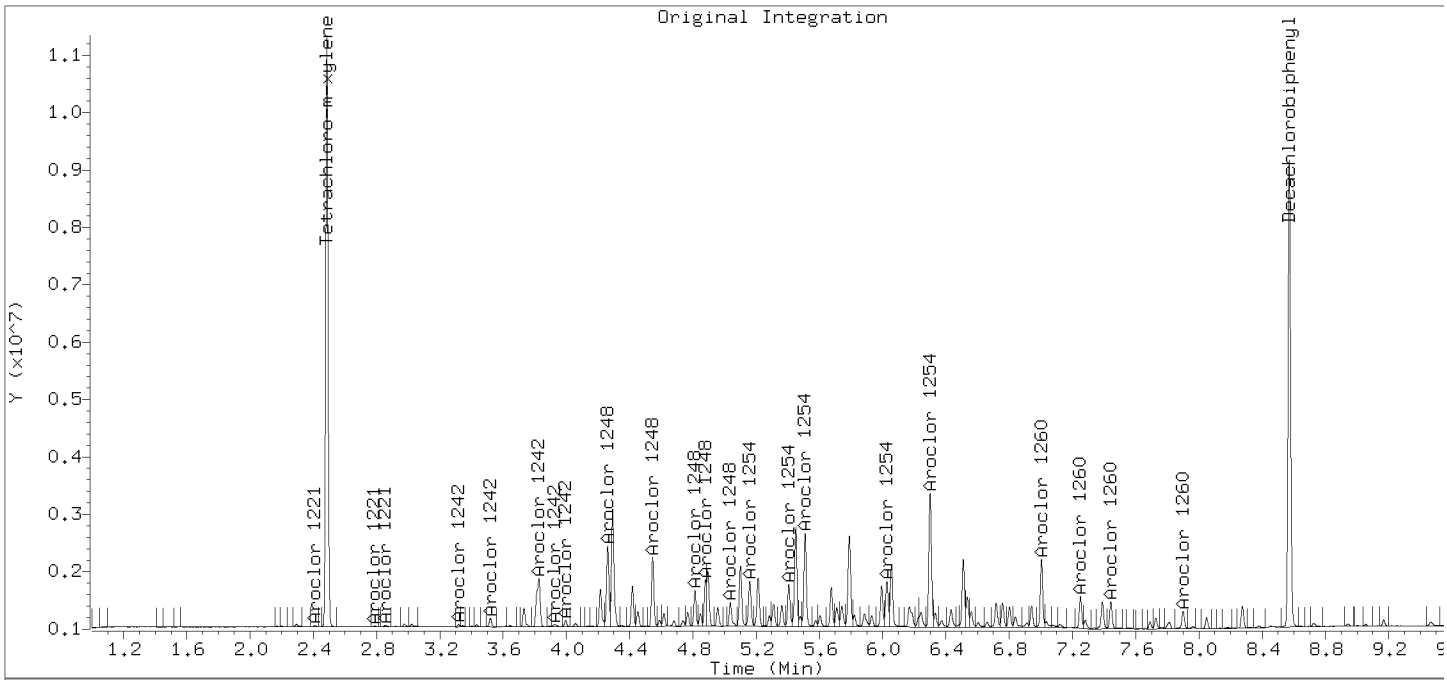
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

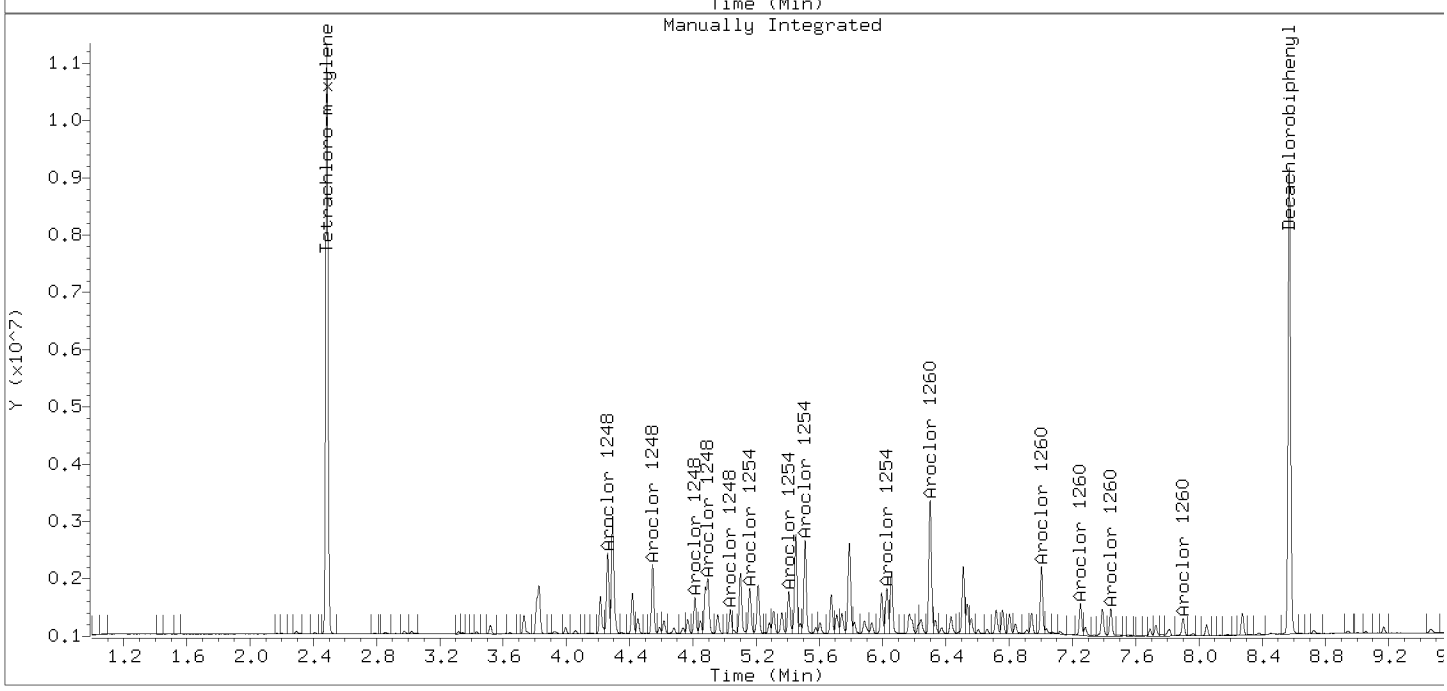
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918022.D
Date : 09-MAR-2018 18:09
Client ID: CS1-170518-01-BB-09
Sample Info: 40150294012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 18:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	48471	0	
Aroclor 1016	48471	0	
Aroclor 1016	48471	0	
Aroclor 1016	48471	0	
Aroclor 1016	48471	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	38746	0	
Aroclor 1232	38746	0	
Aroclor 1232	38746	0	
Aroclor 1232	38746	0	

Aroclor 1232	38746	0	
Aroclor 1242	48471	0	
Aroclor 1242	48471	0	
Aroclor 1242	48471	0	
Aroclor 1242	48471	0	
Aroclor 1242	48471	0	
Aroclor 1248	1472168	1482473	CO
Aroclor 1248	1472168	1482473	CO
Aroclor 1248	1472168	1482473	CO
Aroclor 1248	1472168	1482473	CO
Aroclor 1248	1472168	1482473	CO
Aroclor 1254	921490	951583	BA
Aroclor 1254	921490	951583	BA
Aroclor 1254	921490	951583	BA
Aroclor 1254	921490	951583	BA
Aroclor 1254	921490	951583	BA
Aroclor 1260	2737562	2728008	BA
Aroclor 1260	2737562	2728008	BA
Aroclor 1260	2737562	2728008	BA
Aroclor 1260	2737562	2728008	BA
Aroclor 1260	2737562	2728008	BA
Tetrachloro-m-xylene	10614316	10614316	
Decachlorobiphenyl	9120421	9120421	

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SAMPLE NO.

CS1-170518-01-BB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294013
Date Analyzed: 03/09/2018 18:24
Lab File ID: 030918.B\030918023.D
Initial wt/vol: 9.9705 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)	143	
11097-69-1	PCB-1254 (Aroclor 1254)	109	
11096-82-5	PCB-1260 (Aroclor 1260)	126	
1336-36-3	PCB, Total	377	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918023.D
Lab Smp Id: 40150294013 Client Smp ID: CS1-170518-01-BB-08
Inj Date : 09-MAR-2018 18:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294013,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.970	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.037	25422	13801	0.543	0.03		
1.071	9717	9284	0.955	0.01		
1.355	10837	9530	0.879	0.01		
1.428	15471	11104	0.718	0.02		
2.171	9382	7016	0.748	0.01		
2.286	9407	8011	0.852	0.01		
2.408	24992	21413	0.857	0.03		
2.485	10518864	9873849	0.939	15.56	$ 2 Tetrachloro-m-xylene	
2.786	21946	20365	0.928	0.03		
2.856	34038	21794	0.640	0.04		
2.921	9313	9165	0.984	0.01		
2.975	45272	33058	0.730	0.06		
3.021	44136	39647	0.898	0.06		
3.056	11170	11865	1.062	0.01		
3.317	55936	51074	0.913	0.08		
3.345	23549	22967	0.975	0.03		
3.403	11586	12219	1.055	0.01		
3.432	49768	47118	0.947	0.07		
3.519	94182	79891	0.848	0.13		
3.644	23794	21495	0.903	0.03		
3.731	175487	157814	0.899	0.25		
3.828	764521	551279	0.721	1.09		
3.929	37211	21027	0.565	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	68130	63294	0.929	0.09	
4.056	104103	73020	0.701	0.14	
4.136	33950	25607	0.754	0.04	
4.215	478931	354194	0.740	0.68	
4.260	926956	895682	0.966	1.32	6 Aroclor 1248
4.292	2203972	1904352	0.864	3.15	
4.350	41206	33571	0.815	0.05	
4.416	497938	472829	0.950	0.71	
4.452	190747	169303	0.888	0.27	
4.545	857389	808147	0.943	1.22	6 Aroclor 1248
4.589	137961	117701	0.853	0.19	
4.617	135414	119015	0.879	0.19	
4.650	27078	22788	0.842	0.03	
4.680	105464	84292	0.799	0.15	
4.737	121229	101895	0.841	0.17	
4.769	302048	270918	0.897	0.43	
4.812	724359	705911	0.975	1.03	6 Aroclor 1248
4.848	141966	131187	0.924	0.20	
4.894	1916301	1047424	0.547	2.74	6 Aroclor 1248
4.957	384352	337981	0.879	0.55	
5.037	302934	284072	0.938	0.43	6 Aroclor 1248
5.058	58755	58610	0.998	0.08	
5.101	1409286	1214532	0.862	2.01	
5.158	863089	734503	0.851	1.23	7 Aroclor 1254
5.212	897350	778189	0.867	1.28	
5.284	264239	241185	0.913	0.37	
5.310	551447	487461	0.884	0.78	
5.363	422106	340845	0.807	0.60	
5.406	897171	836927	0.933	1.28	7 Aroclor 1254
5.451	2328678	2178192	0.935	3.33	
5.477	188133	190964	1.015	0.26	
5.510	1849385	1650416	0.892	2.64	7 Aroclor 1254
5.578	115801	105640	0.912	0.16	
5.604	233575	197581	0.846	0.33	
5.676	970397	908672	0.936	1.38	
5.709	505326	431548	0.854	0.72	
5.742	603165	497593	0.825	0.86	
5.790	2593449	2089287	0.806	3.71	
5.820	219637	186855	0.851	0.31	
5.884	435131	289923	0.666	0.62	
5.931	302684	261648	0.864	0.43	
5.994	1055101	1015565	0.963	1.50	
6.026	1252885	1074603	0.858	1.79	7 Aroclor 1254
6.055	902365	802220	0.889	1.29	
6.169	845729	560979	0.663	1.21	
6.226	237394	273398	1.152	0.33	
6.243	440689	368197	0.836	0.63	
6.301	3761841	3097575	0.823	5.38	8 Aroclor 1260
6.333	361766	342949	0.948	0.51	
6.375	181910	155865	0.857	0.26	
6.432	494962	409339	0.827	0.70	
6.510	1808661	1606377	0.888	2.58	
6.534	825025	760142	0.921	1.18	
6.561	350833	324274	0.924	0.50	
6.606	128630	116227	0.904	0.18	
6.661	122366	119016	0.973	0.17	
6.717	613190	546476	0.891	0.87	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.758	609589	563904	0.925	0.87	
6.802	590309	523570	0.887	0.84	
6.839	310788	246634	0.794	0.44	
6.912	80947	80476	0.994	0.11	
6.941	433697	421885	0.973	0.62	
7.004	1893844	1741466	0.920	2.71	8 Aroclor 1260
7.036	194650	135352	0.695	0.27	
7.121	60431	56319	0.932	0.08	
7.251	877489	809495	0.923	1.25	8 Aroclor 1260
7.280	240449	199250	0.829	0.34	
7.339	20985	17376	0.828	0.03	
7.388	780462	662923	0.849	1.11	
7.442	772063	702597	0.910	1.10	8 Aroclor 1260
7.550	37956	32546	0.857	0.05	
7.691	183850	171460	0.933	0.26	
7.727	265942	225447	0.848	0.38	
7.763	46464	38550	0.830	0.06	
7.812	228342	160783	0.704	0.32	
7.867	25750	17566	0.682	0.03	
7.899	500393	438585	0.876	0.71	8 Aroclor 1260
7.961	90647	50470	0.557	0.12	
8.048	246275	228826	0.929	0.35	
8.127	9499	7509	0.791	0.01	
8.274	575160	546055	0.949	0.82	
8.375	23739	18470	0.778	0.03	
8.452	23923	20182	0.844	0.03	
8.571	9525478	8526510	0.895	13.63	$ 12 Decachlorobiphenyl
8.641	18496	14032	0.759	0.02	
8.724	95112	80054	0.842	0.13	
8.942	15160	10715	0.707	0.02	
9.053	66071	57586	0.872	0.09	
9.168	140049	129258	0.923	0.20	
9.468	28848	18308	0.635	0.04	
9.735	10066	10635	1.057	0.01	
9.959	37006	23120	0.625	0.05	
	69880509	61319656		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918023.D
Lab Smp Id: 40150294013 Client Smp ID: CS1-170518-01-BB-08
Inj Date : 09-MAR-2018 18:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294013,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.970	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	10518863	0.08531	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	926956	0.39563	200	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	857388	0.20658	100	0.00- 20.00	92.50	CO
4.812	4.812	0.000	724359	0.35681	180	0.00- 20.00	78.14	CO
4.894	4.879	0.015	1916300	0.38041	190	0.00- 20.00	206.73	CO
5.037	5.038	-0.001	302934	0.08442	42	0.00- 20.00	32.68	CO
Average of Peak Concentrations =					140			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	863089	0.16486	83	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	897171	0.20859	100	0.00- 20.00	103.95	BA
5.510	5.510	0.000	1849384	0.23814	120	0.00- 20.00	214.28	BA
6.026	6.027	-0.001	1252885	0.25728	130	0.00- 20.00	145.16	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3761840	0.42447	210	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1893843	0.18911	95	0.00- 20.00	50.34	BA
7.251	7.251	0.000	877488	0.18358	92	0.00- 20.00	23.33	BA
7.442	7.443	-0.001	772062	0.26485	130	0.00- 20.00	20.52	BA
7.898	7.901	-0.003	500393	0.18963	95	0.00- 20.00	13.30	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9525477	0.08694	44			

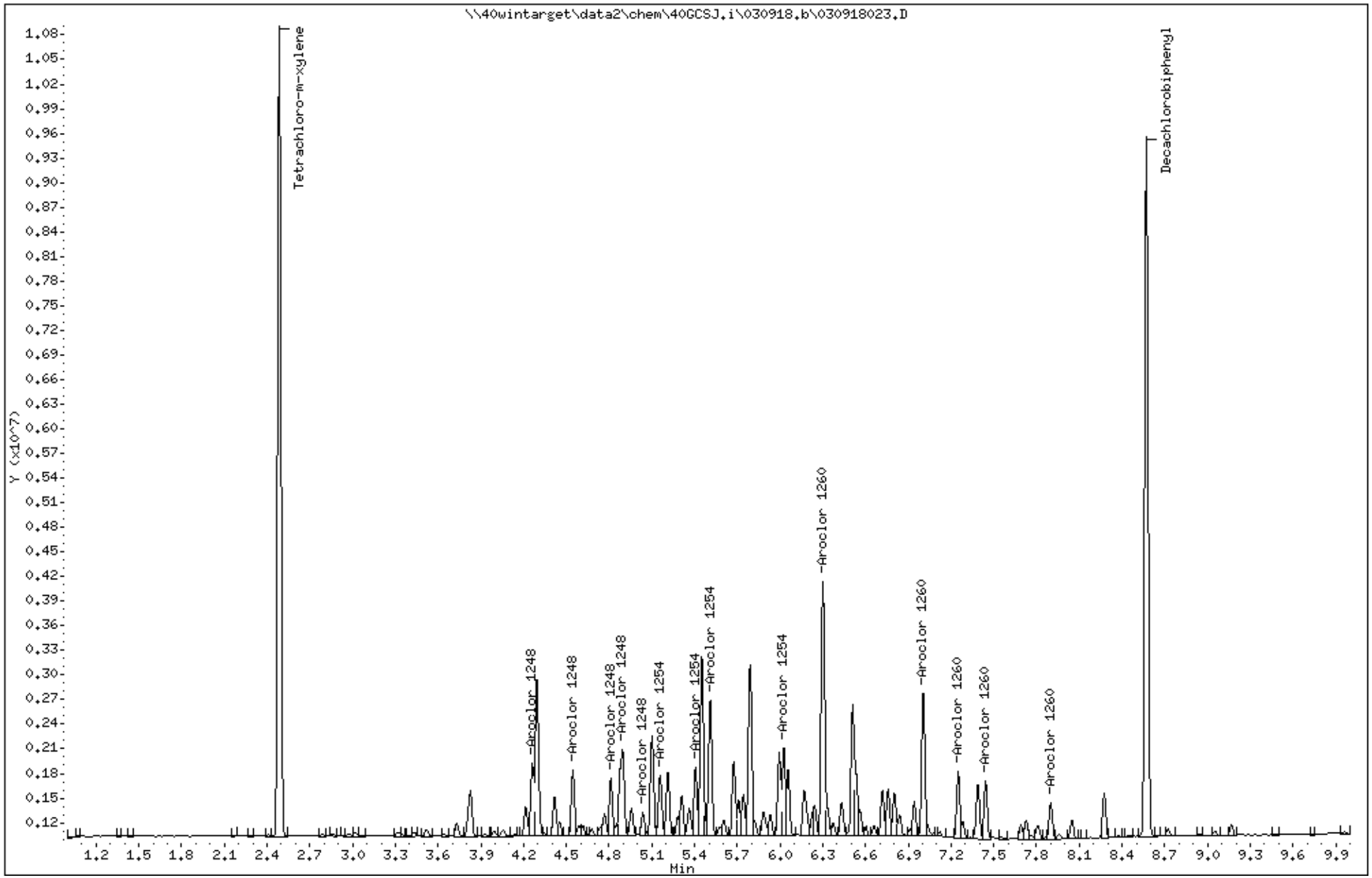
QC Flag Legend

M - Compound response manually integrated.

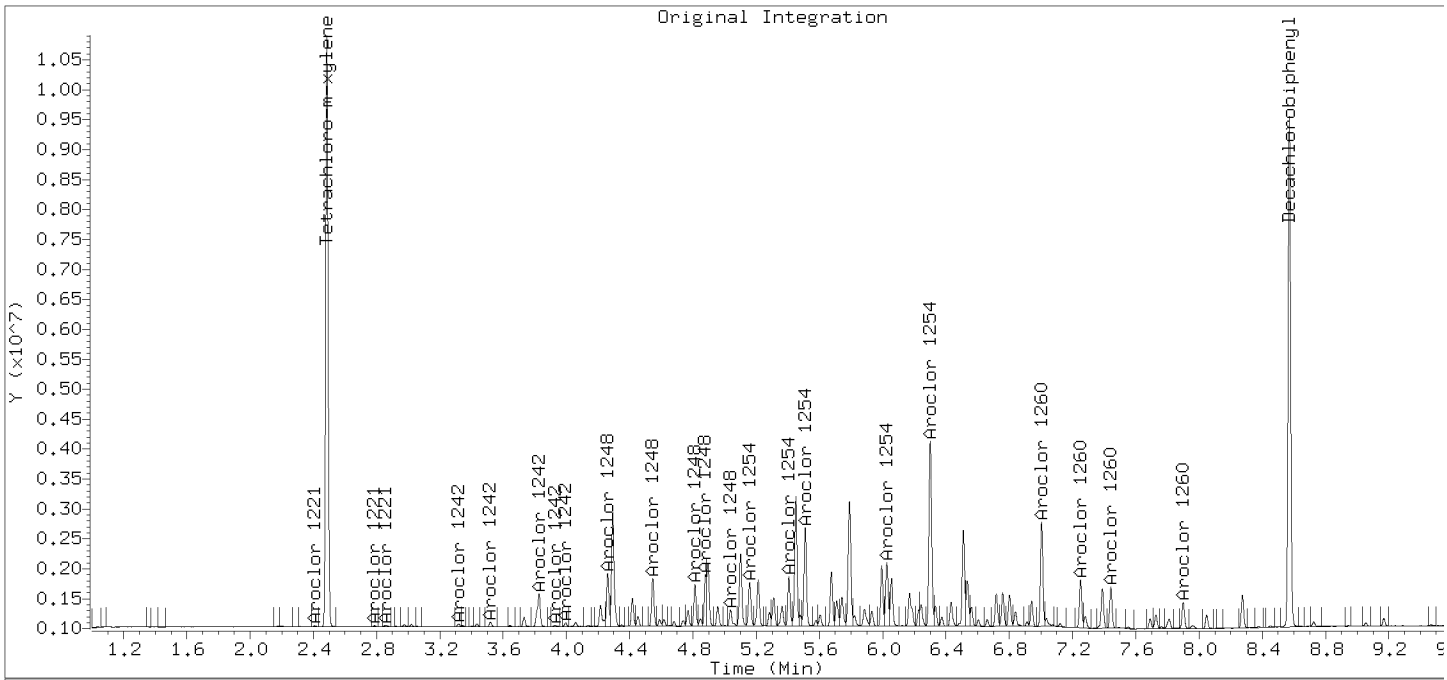
Review Codes Legend

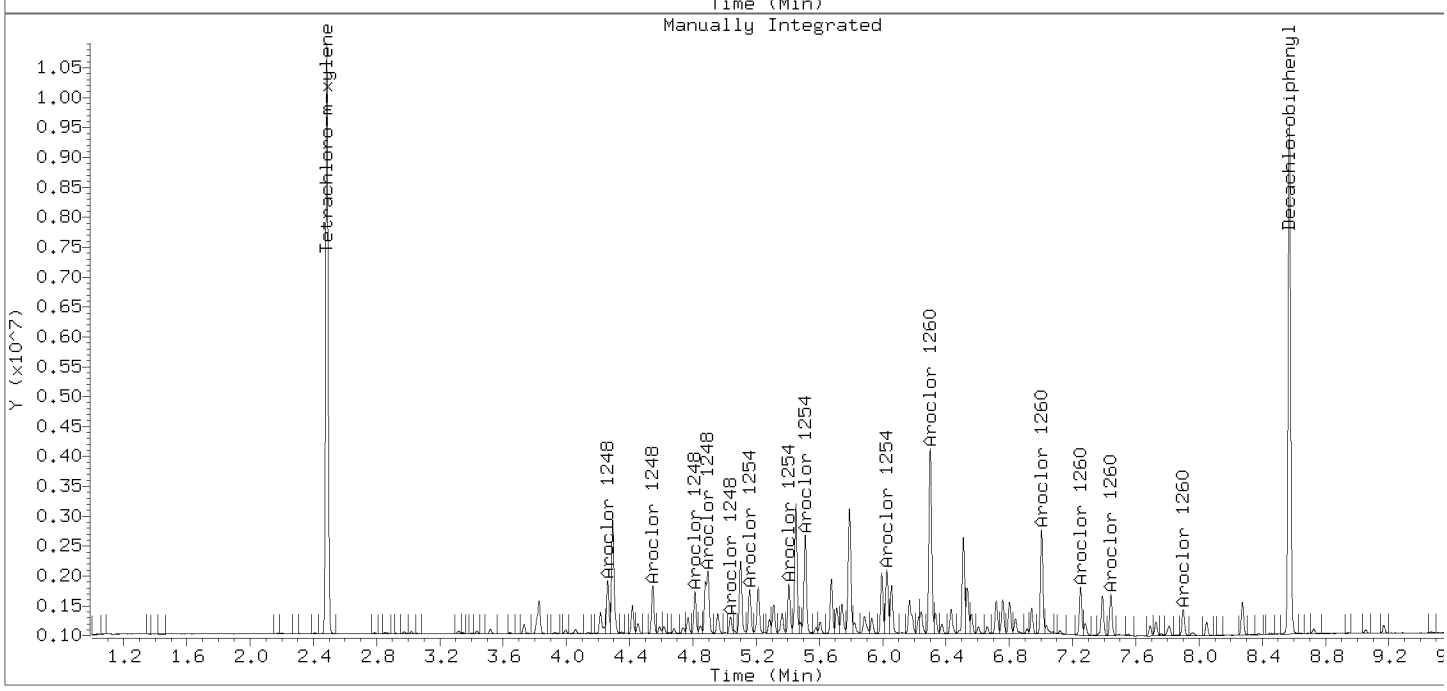
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918023.D
Date : 09-MAR-2018 18:24
Client ID: CS1-170518-01-BB-08
Instrument: 40GCSJ.i
Sample Info: 40150294013,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 18:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	55935	0	
Aroclor 1016	55935	0	
Aroclor 1016	55935	0	
Aroclor 1016	55935	0	
Aroclor 1016	55935	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	34038	0	
Aroclor 1232	34038	0	
Aroclor 1232	34038	0	
Aroclor 1232	34038	0	

Aroclor 1232	34038	0	
Aroclor 1242	55935	0	
Aroclor 1242	55935	0	
Aroclor 1242	55935	0	
Aroclor 1242	55935	0	
Aroclor 1242	55935	0	
Aroclor 1248	912758	926956	CO
Aroclor 1248	912758	926956	CO
Aroclor 1248	912758	926956	CO
Aroclor 1248	912758	926956	CO
Aroclor 1248	912758	926956	CO
Aroclor 1254	822662	863089	BA
Aroclor 1254	822662	863089	BA
Aroclor 1254	822662	863089	BA
Aroclor 1254	822662	863089	BA
Aroclor 1254	822662	863089	BA
Aroclor 1260	3738112	3761840	BA
Aroclor 1260	3738112	3761840	BA
Aroclor 1260	3738112	3761840	BA
Aroclor 1260	3738112	3761840	BA
Aroclor 1260	3738112	3761840	BA
Tetrachloro-m-xylene	10518863	10518863	
Decachlorobiphenyl	9525477	9525477	

==========

SAMPLE NO.

CS1-170518-01-BB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294014
Date Analyzed: 03/09/2018 18:40
Lab File ID: 030918.B\030918024.D
Initial wt/vol: 9.9746 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)	186	
11097-69-1	PCB-1254 (Aroclor 1254)	113	
11096-82-5	PCB-1260 (Aroclor 1260)	106	
1336-36-3	PCB, Total	405	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918024.D
Lab Smp Id: 40150294014 Client Smp ID: CS1-170518-01-BB-07
Inj Date : 09-MAR-2018 18:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294014,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.975	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.031	17358	11091	0.639	0.02		
1.074	16565	12521	0.756	0.02		
1.098	22062	12369	0.561	0.02		
1.157	20997	14604	0.696	0.02		
1.201	12373	10217	0.826	0.01		
1.326	9756	6480	0.664	0.01		
1.357	10848	10989	1.013	0.01		
1.431	12472	12023	0.964	0.01		
1.539	13755	10986	0.799	0.01		
1.771	13024	12642	0.971	0.01		
1.950	20795	15155	0.729	0.02		
2.130	14454	9533	0.660	0.01		
2.173	15768	17192	1.090	0.02		
2.293	26607	26126	0.982	0.03		
2.318	23573	25798	1.094	0.03		
2.410	76550	73515	0.960	0.10		
2.485	12174064	11957970	0.982	16.90	$ 2 Tetrachloro-m-xylene	
2.788	21379	23454	1.097	0.02		
2.855	46100	28313	0.614	0.06		
2.975	154674	117247	0.758	0.20		
3.020	146153	147424	1.009	0.19		
3.054	17102	14377	0.841	0.02		
3.162	9873	9056	0.917	0.01		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.318	70146	68499	0.977	0.09	
3.344	29220	28271	0.968	0.03	
3.398	13631	11731	0.861	0.01	
3.433	65254	57028	0.874	0.08	
3.519	149580	138870	0.928	0.19	
3.645	30037	28973	0.965	0.04	
3.732	323275	284812	0.881	0.43	
3.827	1263282	843058	0.667	1.68	
3.924	73936	38626	0.522	0.09	
3.995	127165	120486	0.947	0.16	
4.059	110802	74007	0.668	0.14	
4.136	42296	25519	0.603	0.05	
4.215	655786	558985	0.852	0.87	
4.261	1394729	1352905	0.970	1.86	6 Aroclor 1248
4.292	2662661	2292288	0.861	3.55	
4.348	51439	39548	0.769	0.06	
4.417	696588	667355	0.958	0.93	
4.453	308192	287230	0.932	0.41	
4.508	24802	16921	0.682	0.03	
4.545	1250061	1183263	0.947	1.67	6 Aroclor 1248
4.590	136172	127963	0.940	0.18	
4.617	204707	184166	0.900	0.27	
4.651	19934	23492	1.179	0.02	
4.679	129263	104372	0.807	0.17	
4.739	147422	122969	0.834	0.19	
4.768	319640	299371	0.937	0.42	
4.813	799204	776839	0.972	1.06	6 Aroclor 1248
4.847	252811	239399	0.947	0.33	
4.894	2068769	1127207	0.545	2.76	6 Aroclor 1248
4.957	442409	375735	0.849	0.59	
5.005	32702	25725	0.787	0.04	
5.036	569191	531156	0.933	0.76	6 Aroclor 1248
5.057	56702	80301	1.416	0.07	
5.101	1439623	1242502	0.863	1.92	
5.158	1025723	869734	0.848	1.37	7 Aroclor 1254
5.213	1176585	1020093	0.867	1.57	
5.254	29239	29296	1.002	0.03	
5.283	248965	240514	0.966	0.33	
5.310	598032	523660	0.876	0.79	
5.363	457779	408383	0.892	0.61	
5.407	939273	871961	0.928	1.25	7 Aroclor 1254
5.451	2588886	2466355	0.953	3.45	
5.477	194350	197789	1.018	0.25	
5.509	2021195	1764214	0.873	2.70	7 Aroclor 1254
5.577	128347	106769	0.832	0.17	
5.605	272275	226623	0.832	0.36	
5.675	833163	792579	0.951	1.11	
5.709	466169	380608	0.816	0.62	
5.743	548314	451200	0.823	0.73	
5.789	2261882	1898400	0.839	3.02	
5.821	329255	292407	0.888	0.44	
5.884	439449	256903	0.585	0.58	
5.931	272226	233195	0.857	0.36	
5.994	921240	837720	0.909	1.23	
6.027	1098946	949077	0.864	1.46	7 Aroclor 1254
6.055	1402783	1216323	0.867	1.87	
6.169	724359	432385	0.597	0.96	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.241	599232	328712	0.549	0.80	
6.300	3276859	2780107	0.848	4.37	8 Aroclor 1260
6.333	320150	287462	0.898	0.42	
6.373	168233	124280	0.739	0.22	
6.432	443884	342875	0.772	0.59	
6.482	53884	56038	1.040	0.07	
6.510	1448723	1298835	0.897	1.93	
6.535	672163	644281	0.959	0.89	
6.560	356758	309087	0.866	0.47	
6.603	136104	98134	0.721	0.18	
6.660	136073	104628	0.769	0.18	
6.718	536184	458325	0.855	0.71	
6.758	551684	489029	0.886	0.73	
6.801	469732	424028	0.903	0.62	
6.839	254694	204869	0.804	0.34	
6.913	78413	72212	0.921	0.10	
6.942	534413	499384	0.934	0.71	
7.004	1534861	1421349	0.926	2.05	8 Aroclor 1260
7.035	154201	115491	0.749	0.20	
7.072	17743	24023	1.354	0.02	
7.099	10771	13553	1.258	0.01	
7.123	65355	53267	0.815	0.08	
7.174	22791	16487	0.723	0.03	
7.251	705310	650111	0.922	0.94	8 Aroclor 1260
7.281	213156	174951	0.821	0.28	
7.340	34314	24709	0.720	0.04	
7.389	629645	530049	0.842	0.84	
7.443	663878	585815	0.882	0.88	8 Aroclor 1260
7.495	67674	30002	0.443	0.09	
7.551	61762	34851	0.564	0.08	
7.660	9568	10538	1.101	0.01	
7.691	144110	137882	0.957	0.19	
7.727	243744	205815	0.844	0.32	
7.763	45866	36328	0.792	0.06	
7.810	218679	161837	0.740	0.29	
7.861	18358	16745	0.912	0.02	
7.901	410721	361387	0.880	0.54	8 Aroclor 1260
7.962	75814	45161	0.596	0.10	
8.049	239217	220635	0.922	0.31	
8.133	23627	11890	0.503	0.03	
8.275	520001	478723	0.921	0.69	
8.376	39779	20163	0.507	0.05	
8.450	35157	23757	0.676	0.04	
8.484	17506	12410	0.709	0.02	
8.571	10356483	9182784	0.887	13.83	$ 12 Decachlorobiphenyl
8.703	25282	21758	0.861	0.03	
8.725	89938	71735	0.798	0.12	
8.835	18271	13523	0.740	0.02	
9.056	44905	38384	0.855	0.06	
9.169	129133	119258	0.924	0.17	
9.465	27171	10754	0.396	0.03	
9.729	10483	9024	0.861	0.01	
9.870	10237	8033	0.785	0.01	
9.964	21316	13500	0.633	0.02	
	74830176	65853810		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918024.D
Lab Smp Id: 40150294014 Client Smp ID: CS1-170518-01-BB-07
Inj Date : 09-MAR-2018 18:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294014,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.975	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	12174064	0.09874	49			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1394728	0.59528	300	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1250061	0.30120	150	0.00- 20.00	89.63	CO
4.812	4.812	0.000	799203	0.39368	200	0.00- 20.00	57.30	CO
4.893	4.879	0.014	2068768	0.41068	200	0.00- 20.00	148.33	CO
5.036	5.038	-0.002	569191	0.15861	80	0.00- 20.00	40.81	CO
Average of Peak Concentrations =					190			
7 Aroclor 1254					CAS #: 11097-69-1			
5.157	5.162	-0.005	1025722	0.19593	98	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	939273	0.21838	110	0.00- 20.00	91.57	BA
5.509	5.510	-0.001	2021195	0.26026	130	0.00- 20.00	197.05	BA
6.026	6.027	-0.001	1098945	0.22567	110	0.00- 20.00	107.14	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3276859	0.36975	180	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1534860	0.15327	77	0.00- 20.00	46.84	BA
7.250	7.251	-0.001	705309	0.14756	74	0.00- 20.00	21.52	BA
7.442	7.443	-0.001	663877	0.22774	110	0.00- 20.00	20.26	BA
7.900	7.901	-0.001	410721	0.15565	78	0.00- 20.00	12.53	BA
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10356483	0.09453	47			

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\030918.b\030918024.D

Date : 09-MAR-2018 18:40

Client ID: CS1-170518-01-BB-07

Instrument: 40GCSJ.i

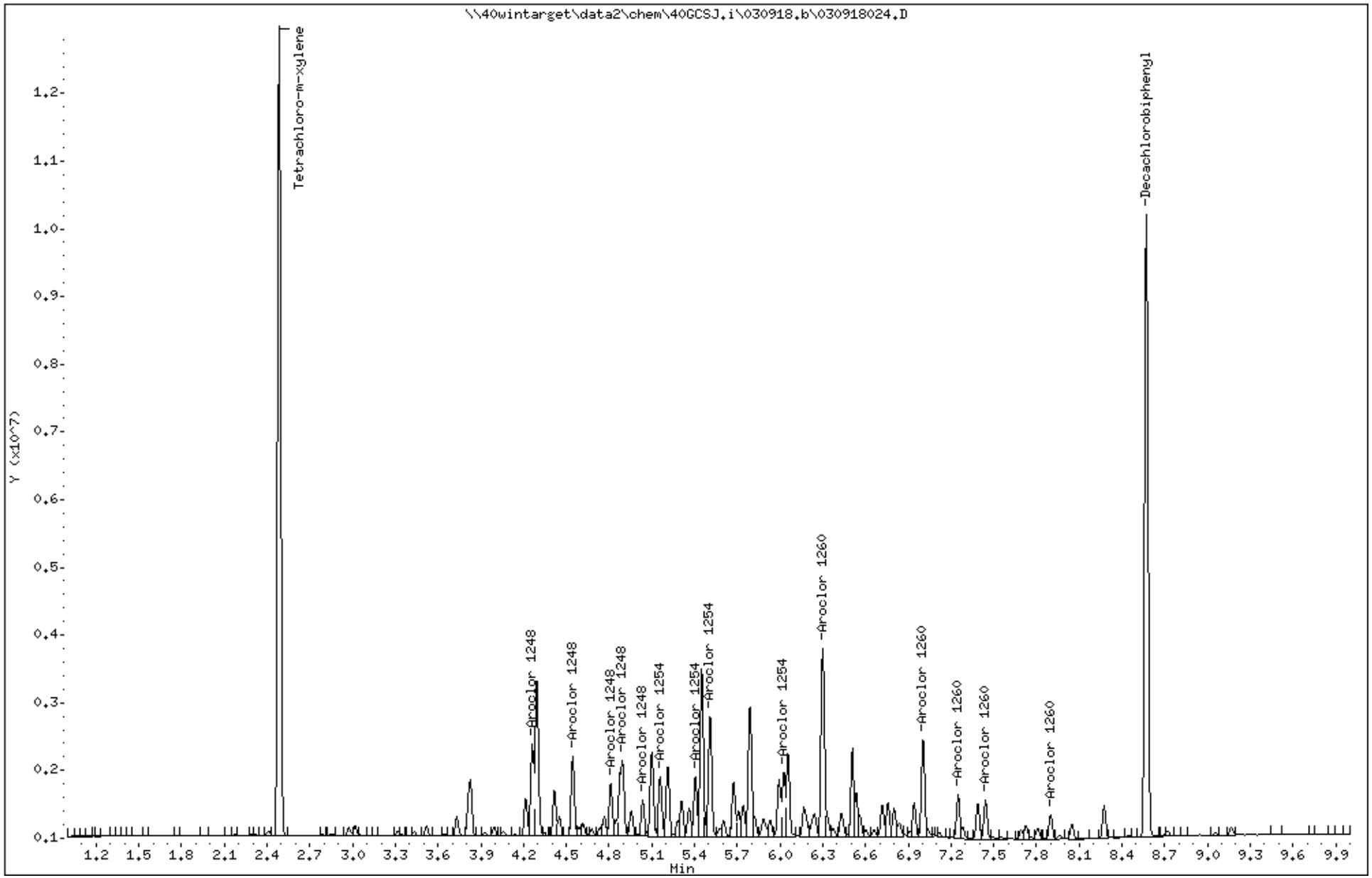
Sample Info: 40150294014,

Volume Injected (uL): 1.0

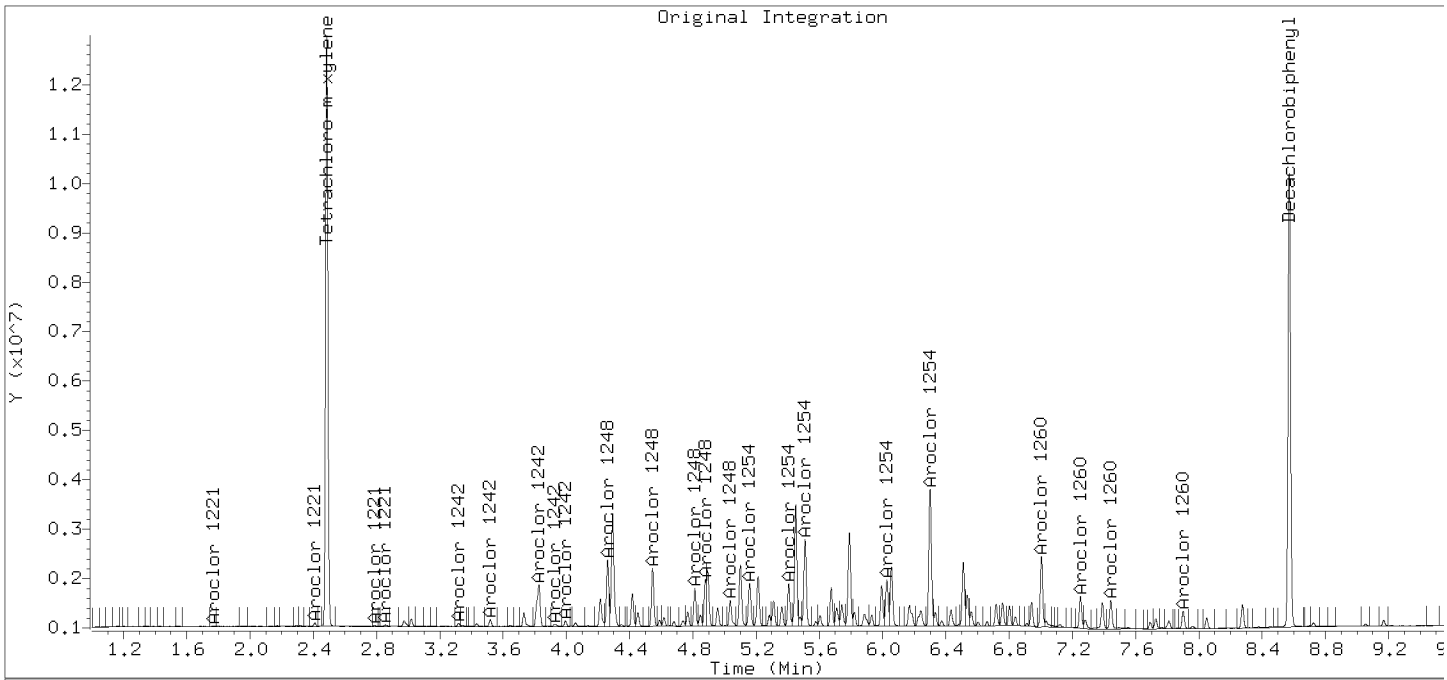
Operator: BLM

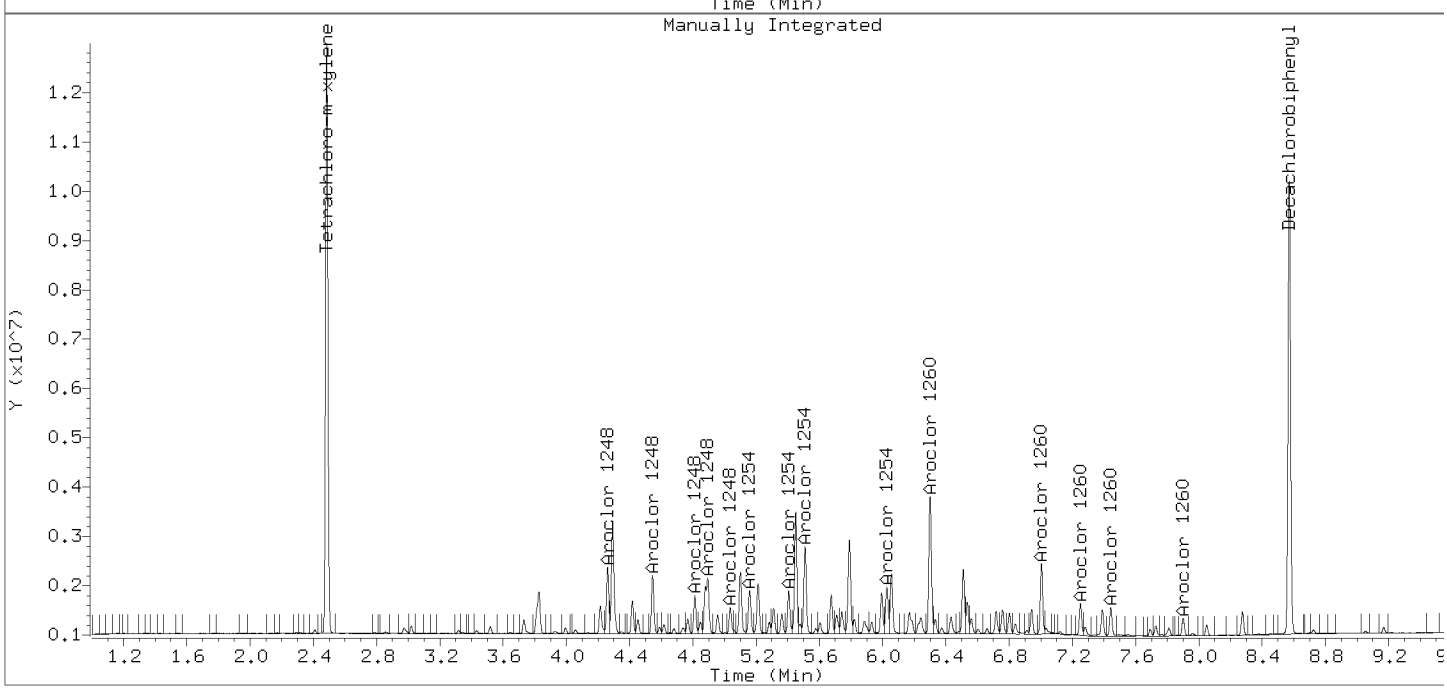
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 18:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	70146	0	
Aroclor 1016	70146	0	
Aroclor 1016	70146	0	
Aroclor 1016	70146	0	
Aroclor 1016	70146	0	
Aroclor 1221	13023	0	
Aroclor 1221	13023	0	
Aroclor 1221	13023	0	
Aroclor 1221	13023	0	
Aroclor 1221	13023	0	
Aroclor 1232	46100	0	
Aroclor 1232	46100	0	
Aroclor 1232	46100	0	
Aroclor 1232	46100	0	

Aroclor 1232	46100	0	
Aroclor 1242	70146	0	
Aroclor 1242	70146	0	
Aroclor 1242	70146	0	
Aroclor 1242	70146	0	
Aroclor 1242	70146	0	
Aroclor 1248	1381245	1394728	CO
Aroclor 1248	1381245	1394728	CO
Aroclor 1248	1381245	1394728	CO
Aroclor 1248	1381245	1394728	CO
Aroclor 1248	1381245	1394728	CO
Aroclor 1254	994547	1025722	BA
Aroclor 1254	994547	1025722	BA
Aroclor 1254	994547	1025722	BA
Aroclor 1254	994547	1025722	BA
Aroclor 1254	994547	1025722	BA
Aroclor 1260	3222465	3276859	BA
Aroclor 1260	3222465	3276859	BA
Aroclor 1260	3222465	3276859	BA
Aroclor 1260	3222465	3276859	BA
Aroclor 1260	3222465	3276859	BA
Tetrachloro-m-xylene	12174064	12174064	
Decachlorobiphenyl	10356483	10356483	

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SAMPLE NO.

CS1-170518-01-BB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294015
Date Analyzed: 03/09/2018 18:56
Lab File ID: 030918.B\030918025.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)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	108	
11097-69-1	PCB-1254 (Aroclor 1254)	73.3	
11096-82-5	PCB-1260 (Aroclor 1260)	117	
1336-36-3	PCB, Total	298	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918025.D
Lab Smp Id: 40150294015 Client Smp ID: CS1-170518-01-BB-06
Inj Date : 09-MAR-2018 18:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294015,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.037	20367	12472	0.612	0.03		
1.068	12419	13120	1.056	0.02		
1.097	10738	8112	0.755	0.01		
1.356	18723	10399	0.555	0.03		
1.429	12859	9798	0.762	0.02		
1.538	10738	10247	0.954	0.01		
2.197	11108	8868	0.798	0.01		
2.291	11335	11644	1.027	0.01		
2.318	12191	11659	0.956	0.02		
2.410	25930	23933	0.923	0.04		
2.485	10955114	10765912	0.983	19.02	$ 2 Tetrachloro-m-xylene	
2.786	19635	20392	1.039	0.03		
2.854	22506	17670	0.785	0.03		
2.976	40635	25943	0.638	0.06		
3.018	37301	35879	0.962	0.06		
3.051	19135	16444	0.859	0.03		
3.317	102151	99461	0.974	0.17		
3.343	46024	44232	0.961	0.07		
3.398	12558	12902	1.027	0.02		
3.434	55593	49539	0.891	0.09		
3.519	132174	110558	0.836	0.22		
3.645	14755	12649	0.857	0.02		
3.732	122318	97659	0.798	0.20		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.827	722366	508540	0.704	1.21	
3.929	68059	36710	0.539	0.11	
3.995	116144	111103	0.957	0.19	
4.059	81121	63095	0.778	0.13	
4.135	36655	22558	0.615	0.06	
4.215	439771	405387	0.922	0.73	
4.260	635516	588681	0.926	1.06	6 Aroclor 1248
4.292	1060531	881652	0.831	1.78	
4.417	513190	491646	0.958	0.86	
4.452	249623	222702	0.892	0.41	
4.502	25607	15468	0.604	0.04	
4.545	738711	705517	0.955	1.24	6 Aroclor 1248
4.589	68113	57320	0.842	0.11	
4.618	132648	109424	0.825	0.22	
4.651	18608	21405	1.150	0.03	
4.681	64749	44422	0.686	0.10	
4.738	67504	47380	0.702	0.11	
4.768	185737	163964	0.883	0.31	
4.813	570566	539320	0.945	0.95	6 Aroclor 1248
4.847	210583	199751	0.949	0.35	
4.878	1305085	780498	0.598	2.19	6 Aroclor 1248
4.957	205564	162525	0.791	0.34	
5.037	317490	293226	0.924	0.53	6 Aroclor 1248
5.059	39922	45511	1.140	0.06	
5.100	761564	644640	0.846	1.27	
5.159	658908	541615	0.822	1.10	7 Aroclor 1254
5.213	645596	535545	0.830	1.08	
5.283	169551	153017	0.902	0.28	
5.309	256069	214588	0.838	0.43	
5.363	332761	264166	0.794	0.55	
5.406	558457	509152	0.912	0.93	7 Aroclor 1254
5.451	1664145	1553725	0.934	2.79	
5.478	92261	109570	1.188	0.15	
5.510	1263846	1121805	0.888	2.12	7 Aroclor 1254
5.577	86263	63976	0.742	0.14	
5.604	178248	132973	0.746	0.29	
5.675	500866	466349	0.931	0.84	
5.709	280841	229307	0.816	0.47	
5.742	426607	341032	0.799	0.71	
5.790	2034197	1645354	0.809	3.41	
5.818	95345	111312	1.167	0.16	
5.884	231849	158890	0.685	0.38	
5.931	217086	174346	0.803	0.36	
5.993	867797	813279	0.937	1.45	
6.025	818698	705322	0.862	1.37	7 Aroclor 1254
6.055	692036	590547	0.853	1.16	
6.168	598737	382573	0.639	1.00	
6.228	189046	217597	1.151	0.31	
6.242	349830	292593	0.836	0.58	
6.300	2813259	2314784	0.823	4.72	8 Aroclor 1260
6.332	270106	237452	0.879	0.45	
6.374	139607	106405	0.762	0.23	
6.432	369930	291508	0.788	0.62	
6.509	1539997	1380317	0.896	2.58	
6.535	608285	546656	0.899	1.02	
6.561	320809	293284	0.914	0.53	
6.604	130033	106622	0.820	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.661	122903	104940	0.854	0.20	
6.717	494857	424856	0.859	0.83	
6.759	502620	446576	0.888	0.84	
6.802	470438	415755	0.884	0.79	
6.839	255237	191230	0.749	0.42	
6.913	88846	74242	0.836	0.14	
6.942	357673	327066	0.914	0.60	
7.003	1881413	1787464	0.950	3.16	8 Aroclor 1260
7.035	163863	130267	0.795	0.27	
7.075	27003	31500	1.167	0.04	
7.121	53224	48619	0.913	0.08	
7.251	799200	757294	0.948	1.34	8 Aroclor 1260
7.282	233262	190974	0.819	0.39	
7.338	22278	19864	0.892	0.03	
7.389	812767	694529	0.855	1.36	
7.442	820710	732625	0.893	1.37	8 Aroclor 1260
7.496	44165	21305	0.482	0.07	
7.552	34905	31817	0.912	0.05	
7.690	189110	178702	0.945	0.31	
7.727	322723	275705	0.854	0.54	
7.762	45729	36706	0.803	0.07	
7.810	195629	117684	0.602	0.32	
7.865	15578	16548	1.062	0.02	
7.901	581285	522126	0.898	0.97	8 Aroclor 1260
7.961	87113	53721	0.617	0.14	
8.049	172546	151880	0.880	0.28	
8.182	16881	11847	0.702	0.02	
8.276	709514	658827	0.929	1.19	
8.377	42072	23607	0.561	0.07	
8.453	31401	17549	0.559	0.05	
8.570	9649754	8532933	0.884	16.21	$ 12 Decachlorobiphenyl
8.727	84610	67029	0.792	0.14	
8.941	32225	22835	0.709	0.05	
9.054	48211	41176	0.854	0.08	
9.167	189835	172809	0.910	0.31	
9.376	9498	8009	0.843	0.01	
9.467	49941	31603	0.633	0.08	
9.735	10795	9492	0.879	0.01	
9.963	72104	41833	0.580	0.12	
	59504716	52621142		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918025.D
Lab Smp Id: 40150294015 Client Smp ID: CS1-170518-01-BB-06
Inj Date : 09-MAR-2018 18:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294015,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.009	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	10955114	0.08885	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	635515	0.27124	140	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	738710	0.17799	89	0.00- 20.00	116.24	CO
4.812	4.812	0.000	570566	0.28106	140	0.00- 20.00	89.78	CO
4.878	4.879	-0.001	1305085	0.25908	130	0.00- 20.00	205.36	CO
5.037	5.038	-0.001	317489	0.08847	44	0.00- 20.00	49.96	CO
Average of Peak Concentrations =					110			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	658908	0.12586	63	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	558456	0.12984	65	0.00- 20.00	84.75	BA
5.509	5.510	-0.001	1263845	0.16274	81	0.00- 20.00	191.81	BA
6.025	6.027	-0.002	818698	0.16812	84	0.00- 20.00	124.25	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					73			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	2813258	0.31744	160	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1881412	0.18787	94	0.00- 20.00	66.88	BA
7.251	7.251	0.000	799200	0.16720	84	0.00- 20.00	28.41	BA
7.442	7.443	-0.001	820709	0.28154	140	0.00- 20.00	29.17	BA
7.900	7.901	-0.001	581285	0.22029	110	0.00- 20.00	20.66	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9649753	0.08808	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\030918.b\030918025.D

Date : 09-MAR-2018 18:56

Client ID: CS1-170518-01-BB-06

Instrument: 40GCSJ.i

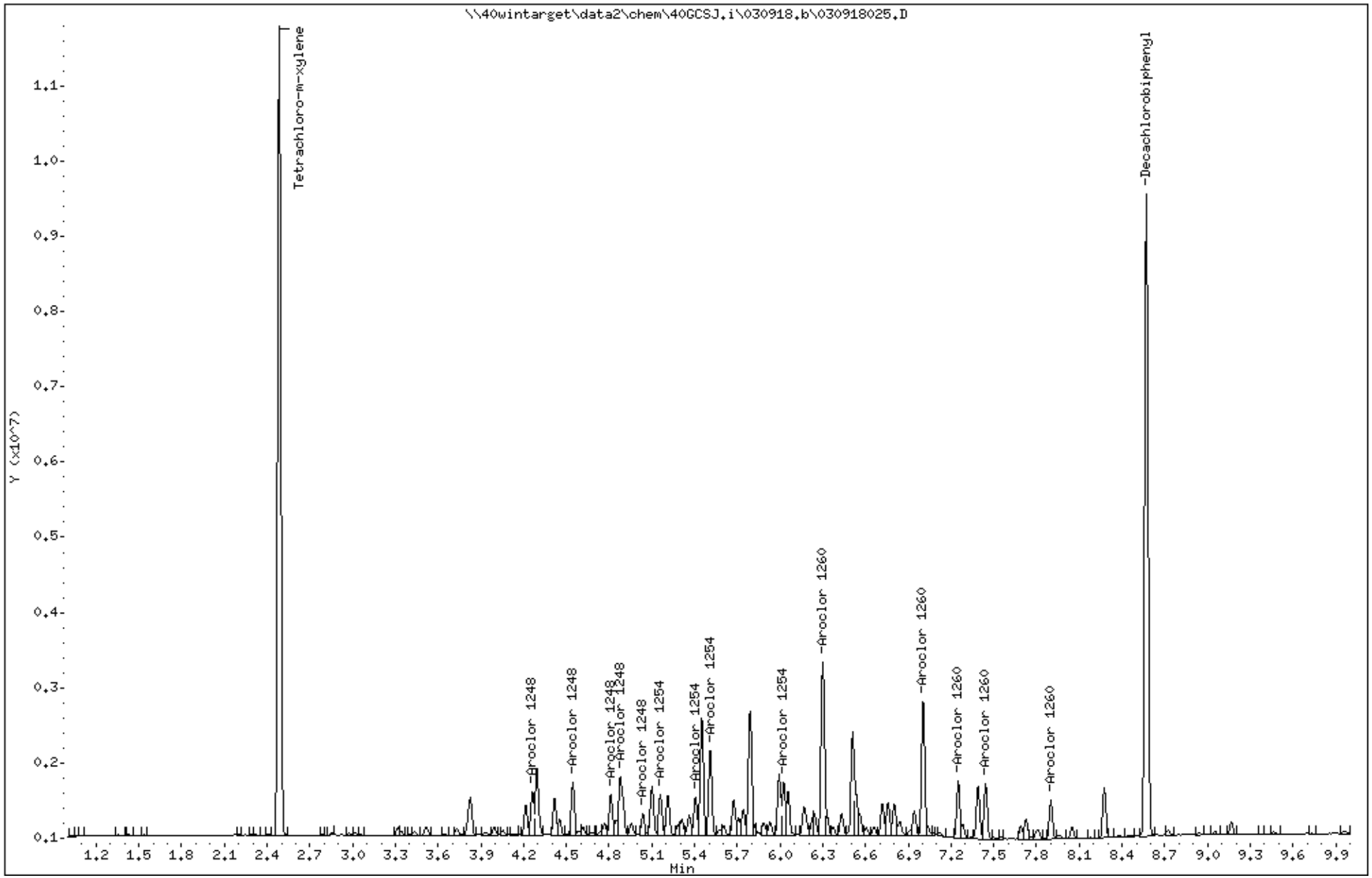
Sample Info: 40150294015,

Volume Injected (uL): 1.0

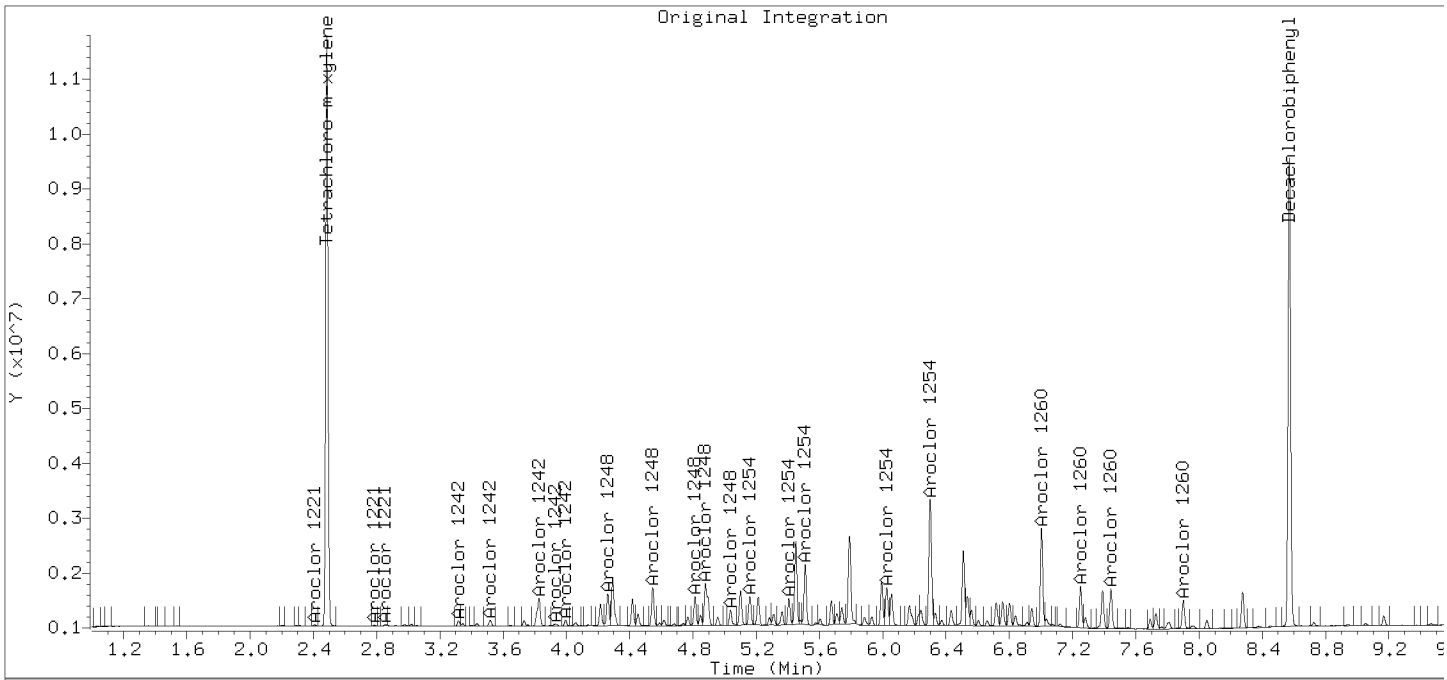
Operator: BLM

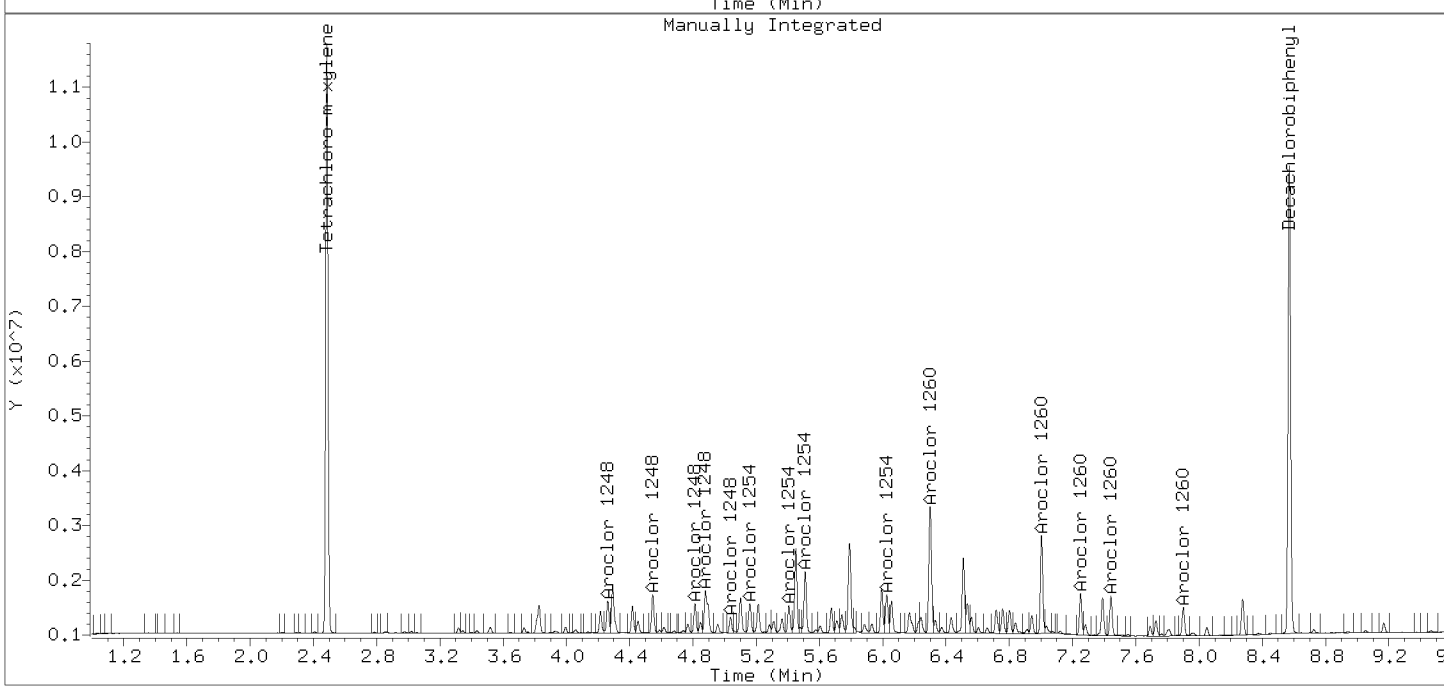
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 18:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	102150	0	
Aroclor 1016	102150	0	
Aroclor 1016	102150	0	
Aroclor 1016	102150	0	
Aroclor 1016	102150	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22505	0	
Aroclor 1232	22505	0	
Aroclor 1232	22505	0	
Aroclor 1232	22505	0	

Aroclor 1232	22505	0	
Aroclor 1242	102150	0	
Aroclor 1242	102150	0	
Aroclor 1242	102150	0	
Aroclor 1242	102150	0	
Aroclor 1242	102150	0	
Aroclor 1248	612621	635515	CO
Aroclor 1248	612621	635515	CO
Aroclor 1248	612621	635515	CO
Aroclor 1248	612621	635515	CO
Aroclor 1248	612621	635515	CO
Aroclor 1254	589050	658908	BA
Aroclor 1254	589050	658908	BA
Aroclor 1254	589050	658908	BA
Aroclor 1254	589050	658908	BA
Aroclor 1254	589050	658908	BA
Aroclor 1260	2769460	2813258	BA
Aroclor 1260	2769460	2813258	BA
Aroclor 1260	2769460	2813258	BA
Aroclor 1260	2769460	2813258	BA
Aroclor 1260	2769460	2813258	BA
Tetrachloro-m-xylene	10955114	10955114	
Decachlorobiphenyl	9649753	9649753	

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SAMPLE NO.

CS1-170518-01-BB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294016
Date Analyzed: 03/09/2018 19:28
Lab File ID: 030918.B\030918027.D
Initial wt/vol: 10.0243 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)	225	
11097-69-1	PCB-1254 (Aroclor 1254)	129	
11096-82-5	PCB-1260 (Aroclor 1260)	128	
1336-36-3	PCB, Total	483	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918027.D
Lab Smp Id: 40150294016 Client Smp ID: CS1-170518-01-BB-05
Inj Date : 09-MAR-2018 19:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294016,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.024	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.027	15863	11515	0.726	0.01		
1.355	9985	8471	0.848	0.01		
1.429	12990	10072	0.775	0.01		
1.537	18110	9494	0.524	0.02		
1.770	22378	20886	0.933	0.02		
1.951	20002	14771	0.738	0.02		
2.006	10168	7355	0.723	0.01		
2.198	10739	9127	0.850	0.01		
2.408	45459	41637	0.916	0.05		
2.484	11074162	10832566	0.978	14.10	$ 2 Tetrachloro-m-xylene	
2.786	19784	18310	0.926	0.02		
2.856	35922	23487	0.654	0.04		
2.919	11424	9763	0.855	0.01		
2.974	110586	84824	0.767	0.13		
3.019	84182	84029	0.998	0.10		
3.052	13033	12538	0.962	0.01		
3.318	54244	49046	0.904	0.06		
3.342	20812	21505	1.033	0.02		
3.398	11559	10965	0.949	0.01		
3.434	34790	33727	0.969	0.04		
3.519	151079	141068	0.934	0.18		
3.644	38879	33692	0.867	0.04		
3.731	519153	477008	0.919	0.63		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	2097778	1349235	0.643	2.57	
3.923	67284	39958	0.594	0.08	
3.993	154173	147617	0.957	0.18	
4.058	100806	80910	0.803	0.12	
4.139	29655	20437	0.689	0.03	
4.215	888020	784318	0.883	1.08	
4.261	1857519	1771024	0.953	2.27	6 Aroclor 1248
4.292	3503334	2997735	0.856	4.29	
4.349	47340	39733	0.839	0.05	
4.417	931668	895329	0.961	1.14	
4.452	353351	331383	0.938	0.43	
4.546	1437948	1384410	0.963	1.76	6 Aroclor 1248
4.588	161412	157838	0.978	0.19	
4.617	235244	217317	0.924	0.28	
4.653	19596	21562	1.100	0.02	
4.680	141164	127442	0.903	0.17	
4.737	166702	145025	0.870	0.20	
4.766	400191	384568	0.961	0.49	
4.812	1019879	963882	0.945	1.24	6 Aroclor 1248
4.847	306949	297472	0.969	0.37	
4.893	2451466	1256210	0.512	3.00	6 Aroclor 1248
4.957	476509	437791	0.919	0.58	
5.002	29688	27537	0.928	0.03	
5.036	469418	445287	0.949	0.57	6 Aroclor 1248
5.055	62297	81601	1.310	0.07	
5.100	1589967	1391187	0.875	1.94	
5.159	1226581	1035233	0.844	1.50	7 Aroclor 1254
5.212	1325501	1151090	0.868	1.62	
5.254	29352	32037	1.091	0.03	
5.283	282444	275772	0.976	0.34	
5.309	653862	572724	0.876	0.80	
5.363	481138	439012	0.912	0.58	
5.406	1079932	988631	0.915	1.32	7 Aroclor 1254
5.451	2645497	2450889	0.926	3.24	
5.477	189664	198305	1.046	0.23	
5.509	2285478	2049560	0.897	2.80	7 Aroclor 1254
5.577	123039	116451	0.946	0.15	
5.602	254591	226236	0.889	0.31	
5.675	867583	817061	0.942	1.06	
5.709	482642	411899	0.853	0.59	
5.742	656569	531602	0.810	0.80	
5.790	2694819	2277635	0.845	3.30	
5.822	345271	314169	0.910	0.42	
5.883	464197	295719	0.637	0.56	
5.930	300997	266713	0.886	0.36	
5.993	1058010	986117	0.932	1.29	
6.025	1258298	1071420	0.851	1.54	7 Aroclor 1254
6.056	1434835	1263283	0.880	1.75	
6.168	755617	477521	0.632	0.92	
6.242	644837	361723	0.561	0.79	
6.300	3824504	3118185	0.815	4.68	8 Aroclor 1260
6.333	341092	318143	0.933	0.41	
6.374	164396	136083	0.828	0.20	
6.432	499738	414753	0.830	0.61	
6.509	1798925	1597514	0.888	2.20	
6.535	802222	770754	0.961	0.98	
6.559	372773	333467	0.895	0.45	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.603	138658	116813	0.842	0.16	
6.660	123784	106908	0.864	0.15	
6.717	565005	494187	0.875	0.69	
6.758	646025	587455	0.909	0.79	
6.801	548502	521778	0.951	0.67	
6.838	307063	249094	0.811	0.37	
6.888	11870	15800	1.331	0.01	
6.912	74525	76816	1.031	0.09	
6.942	673731	675303	1.002	0.82	
7.003	1844745	1666613	0.903	2.26	8 Aroclor 1260
7.036	199954	136017	0.680	0.24	
7.103	12296	16844	1.370	0.01	
7.121	67585	56904	0.842	0.08	
7.250	861167	798621	0.927	1.05	8 Aroclor 1260
7.281	261066	208984	0.801	0.31	
7.338	28836	24119	0.836	0.03	
7.389	824605	721676	0.875	1.01	
7.443	808559	735228	0.909	0.99	8 Aroclor 1260
7.551	62620	41176	0.658	0.07	
7.690	192144	179757	0.936	0.23	
7.727	298927	267063	0.893	0.36	
7.763	55745	40046	0.718	0.06	
7.811	270714	185686	0.686	0.33	
7.866	23315	20022	0.859	0.02	
7.900	555488	501802	0.903	0.68	8 Aroclor 1260
7.959	105417	59970	0.569	0.12	
8.048	411306	389013	0.946	0.50	
8.130	18649	15478	0.830	0.02	
8.274	695537	645633	0.928	0.85	
8.378	26059	18830	0.723	0.03	
8.450	30143	24921	0.827	0.03	
8.571	9759307	8650212	0.886	11.95	$ 12 Decachlorobiphenyl
8.725	97676	88400	0.905	0.11	
8.938	11026	8779	0.796	0.01	
9.053	69551	58297	0.838	0.08	
9.168	216637	194154	0.896	0.26	
9.469	23327	11558	0.495	0.02	
9.732	10696	9233	0.863	0.01	
	81621329	71681555		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918027.D
Lab Smp Id: 40150294016 Client Smp ID: CS1-170518-01-BB-05
Inj Date : 09-MAR-2018 19:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294016,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.024	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	11074161	0.08982	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1857518	0.79280	400	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1437948	0.34647	170	0.00- 20.00	77.41	CO
4.812	4.812	0.000	1019878	0.50238	250	0.00- 20.00	54.91	CO
4.893	4.879	0.014	2451465	0.48665	240	0.00- 20.00	131.98	CO
5.036	5.038	-0.002	469418	0.13081	65	0.00- 20.00	25.27	CO
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1226581	0.23429	120	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1079932	0.25109	120	0.00- 20.00	88.04	BA
5.508	5.510	-0.002	2285477	0.29429	150	0.00- 20.00	186.33	BA
6.025	6.027	-0.002	1258298	0.25839	130	0.00- 20.00	102.59	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					130			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3824504	0.43155	220	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1844744	0.18421	92	0.00- 20.00	48.23	BA
7.250	7.251	-0.001	861166	0.18017	90	0.00- 20.00	22.52	BA
7.442	7.443	-0.001	808559	0.27737	140	0.00- 20.00	21.14	BA
7.899	7.901	-0.002	555488	0.21051	100	0.00- 20.00	14.52	BA
Average of Peak Concentrations =					130			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9759307	0.08908	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\030918.b\030918027.D

Date : 09-MAR-2018 19:28

Client ID: CS1-170518-01-BB-05

Instrument: 40GCSJ.i

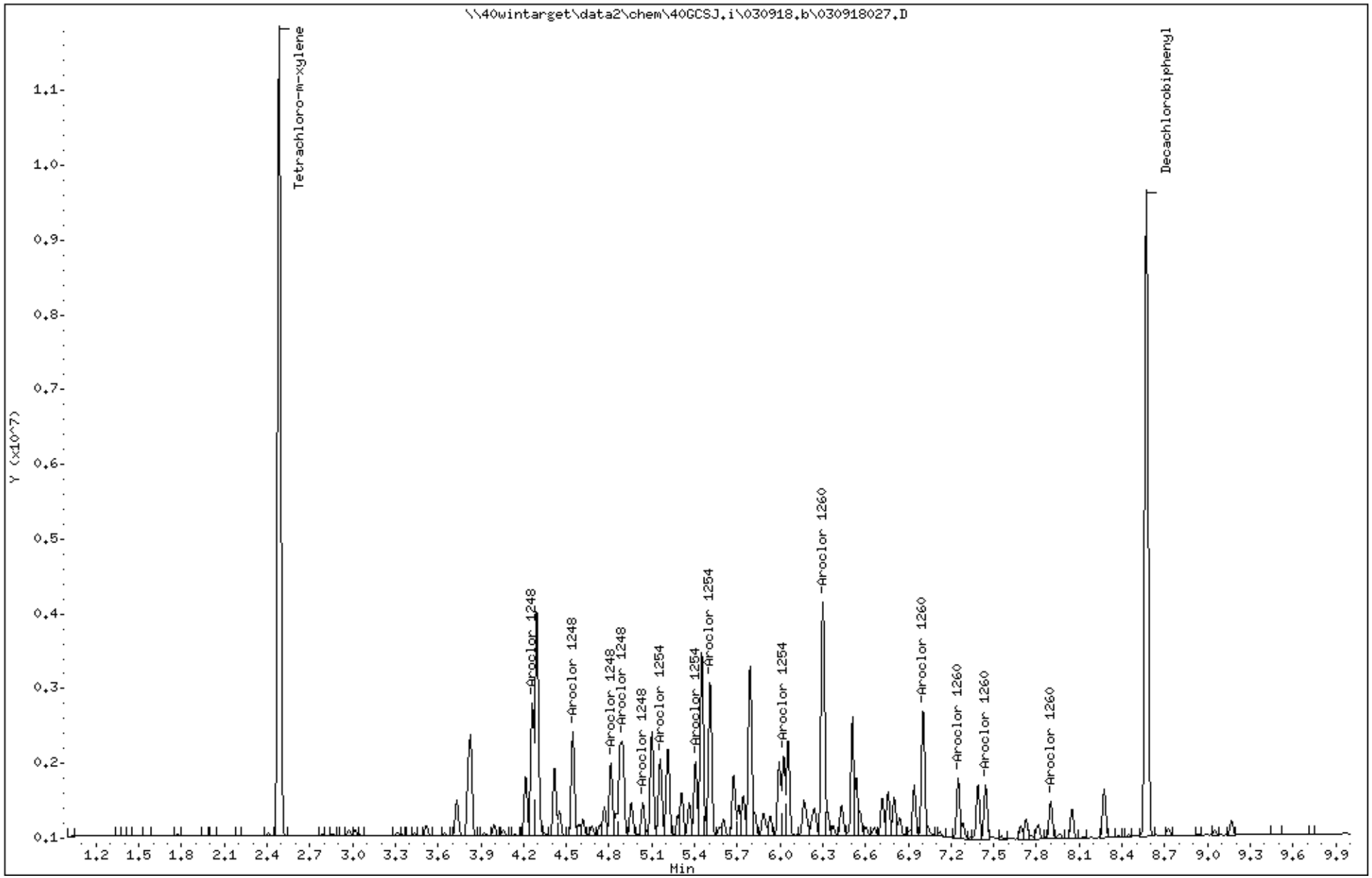
Sample Info: 40150294016,

Volume Injected (uL): 1.0

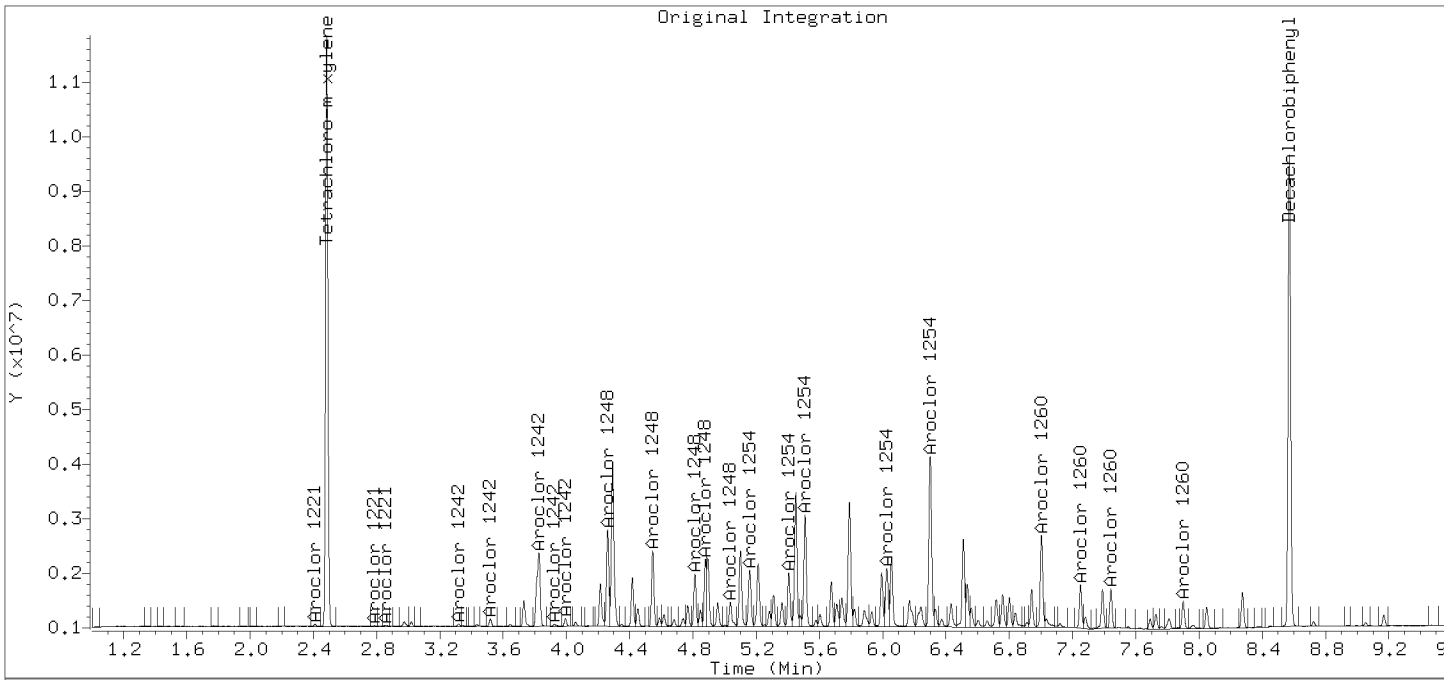
Operator: BLM

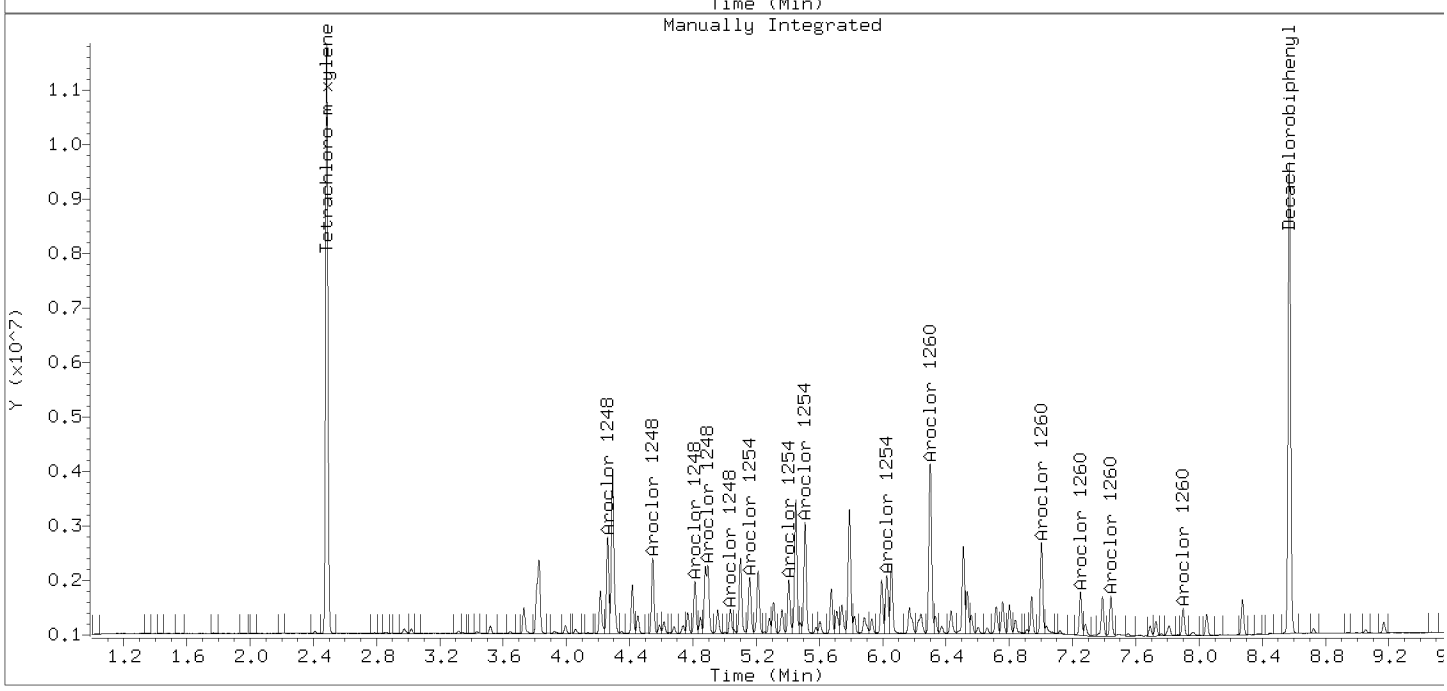
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 19:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	54244	0	
Aroclor 1016	54244	0	
Aroclor 1016	54244	0	
Aroclor 1016	54244	0	
Aroclor 1016	54244	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	35921	0	
Aroclor 1232	35921	0	
Aroclor 1232	35921	0	
Aroclor 1232	35921	0	

Aroclor 1232	35921	0	
Aroclor 1242	54244	0	
Aroclor 1242	54244	0	
Aroclor 1242	54244	0	
Aroclor 1242	54244	0	
Aroclor 1242	54244	0	
Aroclor 1248	1846017	1857518	CO
Aroclor 1248	1846017	1857518	CO
Aroclor 1248	1846017	1857518	CO
Aroclor 1248	1846017	1857518	CO
Aroclor 1248	1846017	1857518	CO
Aroclor 1254	1231023	1226581	BA
Aroclor 1254	1231023	1226581	BA
Aroclor 1254	1231023	1226581	BA
Aroclor 1254	1231023	1226581	BA
Aroclor 1254	1231023	1226581	BA
Aroclor 1260	3846647	3824504	BA
Aroclor 1260	3846647	3824504	BA
Aroclor 1260	3846647	3824504	BA
Aroclor 1260	3846647	3824504	BA
Aroclor 1260	3846647	3824504	BA
Tetrachloro-m-xylene	11074161	11074161	
Decachlorobiphenyl	9759307	9759307	

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SAMPLE NO.

CS1-170518-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294017
Date Analyzed: 03/09/2018 20:15
Lab File ID: 030918.B\030918030.D
Initial wt/vol: 10.0025 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)	86.1	
11097-69-1	PCB-1254 (Aroclor 1254)	63.4	
11096-82-5	PCB-1260 (Aroclor 1260)	139	
1336-36-3	PCB, Total	289	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918030.D
Lab Smp Id: 40150294017 Client Smp ID: CS1-170518-01-BB-04
Inj Date : 09-MAR-2018 20:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294017,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	27310	16153	0.591	0.04		
1.069	9859	11264	1.142	0.01		
1.090	11197	8961	0.800	0.01		
1.429	15124	11445	0.757	0.02		
1.541	20205	12013	0.595	0.03		
1.951	12225	9981	0.816	0.01		
2.194	10855	9152	0.843	0.01		
2.293	31873	25830	0.810	0.05		
2.411	41411	32987	0.797	0.06		
2.485	11427150	11043721	0.966	18.53	$ 2 Tetrachloro-m-xylene	
2.787	26362	21641	0.821	0.04		
2.836	12873	14955	1.162	0.02		
2.855	46504	30449	0.655	0.07		
2.976	61699	51507	0.835	0.09		
3.020	34541	33746	0.977	0.05		
3.052	16109	16455	1.021	0.02		
3.225	11253	6420	0.571	0.01		
3.318	57412	53068	0.924	0.09		
3.343	36639	35667	0.973	0.05		
3.402	14723	13407	0.911	0.02		
3.435	74737	71193	0.953	0.11		
3.519	109506	94214	0.860	0.17		
3.645	21036	14665	0.697	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.731	146472	128087	0.874	0.23	
3.827	600290	387005	0.645	0.94	
3.938	48129	25122	0.522	0.07	
3.995	61684	51640	0.837	0.09	
4.058	88157	59545	0.675	0.13	
4.137	33691	24796	0.736	0.05	
4.214	412904	341660	0.827	0.64	
4.262	582389	547454	0.940	0.91	6 Aroclor 1248
4.293	1293614	1120029	0.866	2.03	
4.350	48497	28019	0.578	0.07	
4.417	400446	356319	0.890	0.62	
4.453	176792	132777	0.751	0.27	
4.499	27390	25094	0.916	0.04	
4.515	36038	32327	0.897	0.05	
4.545	519259	474278	0.913	0.81	6 Aroclor 1248
4.590	103143	82850	0.803	0.16	
4.618	141024	89916	0.638	0.22	
4.680	91761	56572	0.617	0.14	
4.737	97528	66418	0.681	0.15	
4.768	223193	183313	0.821	0.35	
4.813	423559	376366	0.889	0.66	6 Aroclor 1248
4.848	147878	130807	0.885	0.23	
4.894	1129288	614742	0.544	1.77	6 Aroclor 1248
4.956	241124	186806	0.775	0.37	
5.037	194939	165757	0.850	0.30	6 Aroclor 1248
5.060	66200	55083	0.832	0.10	
5.100	892374	755776	0.847	1.40	
5.158	584605	491893	0.841	0.91	7 Aroclor 1254
5.213	491367	386985	0.788	0.77	
5.283	185756	172441	0.928	0.29	
5.311	383448	311890	0.813	0.60	
5.362	229856	165852	0.722	0.36	
5.407	518123	476057	0.919	0.81	7 Aroclor 1254
5.451	2344159	2162100	0.922	3.68	
5.509	989765	878059	0.887	1.55	7 Aroclor 1254
5.575	109473	71188	0.650	0.17	
5.605	153179	101617	0.663	0.24	
5.674	608982	558080	0.916	0.95	
5.709	353317	290055	0.821	0.55	
5.743	488290	388174	0.795	0.76	
5.789	1849161	1516525	0.820	2.90	
5.821	240262	154030	0.641	0.37	
5.884	311822	195152	0.626	0.49	
5.931	290215	242834	0.837	0.45	
5.994	1059041	985523	0.931	1.66	
6.027	721109	595160	0.825	1.13	7 Aroclor 1254
6.056	496498	417107	0.840	0.78	
6.123	48709	28701	0.589	0.07	
6.168	684031	443483	0.648	1.07	
6.228	205978	241494	1.172	0.32	
6.242	405107	315507	0.779	0.63	
6.300	2872417	2475787	0.862	4.51	8 Aroclor 1260
6.332	277210	245261	0.885	0.43	
6.373	151522	116449	0.769	0.23	
6.431	509199	390841	0.768	0.80	
6.483	61464	70949	1.154	0.09	
6.510	1984075	1763067	0.889	3.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.535	575688	583694	1.014	0.90	
6.560	425718	379011	0.890	0.66	
6.605	161778	125055	0.773	0.25	
6.660	162163	132338	0.816	0.25	
6.717	566661	495016	0.874	0.89	
6.758	661738	607995	0.919	1.04	
6.801	551015	498932	0.905	0.86	
6.838	340771	265600	0.779	0.53	
6.911	114106	111383	0.976	0.17	
6.941	554196	534229	0.964	0.87	
7.004	2438401	2245495	0.921	3.83	8 Aroclor 1260
7.034	212787	169557	0.797	0.33	
7.072	36784	38263	1.040	0.05	
7.121	69018	58499	0.848	0.10	
7.250	932685	851265	0.913	1.46	8 Aroclor 1260
7.281	269188	229251	0.852	0.42	
7.337	23846	19659	0.824	0.03	
7.389	1049291	899764	0.857	1.64	
7.442	1049144	949118	0.905	1.64	8 Aroclor 1260
7.491	39967	26814	0.671	0.06	
7.525	24333	18252	0.750	0.03	
7.553	56622	42569	0.752	0.08	
7.690	230444	211344	0.917	0.36	
7.727	374610	335384	0.895	0.58	
7.762	45327	42152	0.930	0.07	
7.811	293815	201356	0.685	0.46	
7.865	15998	13966	0.873	0.02	
7.901	712627	626873	0.880	1.12	8 Aroclor 1260
7.959	104163	62530	0.600	0.16	
8.048	175618	170141	0.969	0.27	
8.275	879328	794744	0.904	1.38	
8.377	16167	13056	0.808	0.02	
8.451	14514	13175	0.908	0.02	
8.571	10072910	8812181	0.875	15.83	$ 12 Decachlorobiphenyl
8.701	20632	23938	1.160	0.03	
8.725	119822	111272	0.929	0.18	
8.835	10986	9528	0.867	0.01	
8.939	14863	9713	0.653	0.02	
9.053	52798	43419	0.822	0.08	
9.169	140643	126466	0.899	0.22	
9.739	21284	13716	0.644	0.03	
9.965	19156	12325	0.643	0.03	
	63618110	55718751		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918030.D
Lab Smp Id: 40150294017 Client Smp ID: CS1-170518-01-BB-04
Inj Date : 09-MAR-2018 20:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294017,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	11427149	0.09268	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	582388	0.24857	120	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	519258	0.12511	62	0.00- 20.00	89.16	CO
4.812	4.812	0.000	423559	0.20864	100	0.00- 20.00	72.73	CO
4.893	4.879	0.014	1129287	0.22418	110	0.00- 20.00	193.91	CO
5.037	5.038	-0.001	194939	0.05432	27	0.00- 20.00	33.47	CO
Average of Peak Concentrations =					86			
7 Aroclor 1254					CAS #: 11097-69-1			
5.157	5.162	-0.005	584605	0.11167	56	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	518123	0.12046	60	0.00- 20.00	88.63	BA
5.509	5.510	-0.001	989765	0.12745	64	0.00- 20.00	169.30	BA
6.027	6.027	0.000	721108	0.14808	74	0.00- 20.00	123.35	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					63			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	2872416	0.32411	160	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	2438400	0.24349	120	0.00- 20.00	84.89	BA
7.249	7.251	-0.002	932685	0.19513	98	0.00- 20.00	32.47	BA
7.442	7.443	-0.001	1049144	0.35990	180	0.00- 20.00	36.52	BA
7.900	7.901	-0.001	712626	0.27006	130	0.00- 20.00	24.81	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10072910	0.09194	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\030918.b\030918030.D

Date : 09-MAR-2018 20:15

Client ID: CS1-170518-01-BB-04

Instrument: 40GCSJ.i

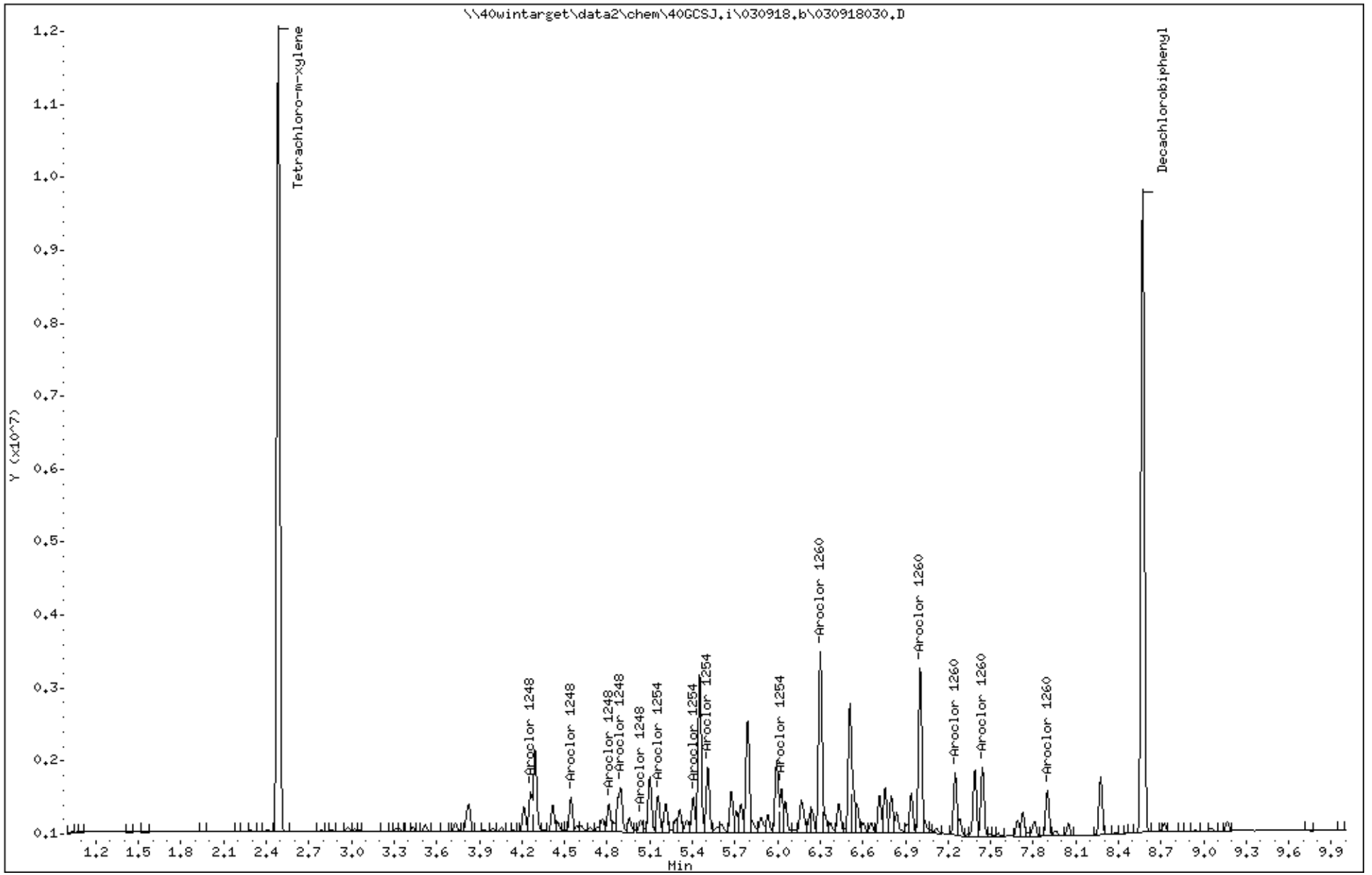
Sample Info: 40150294017,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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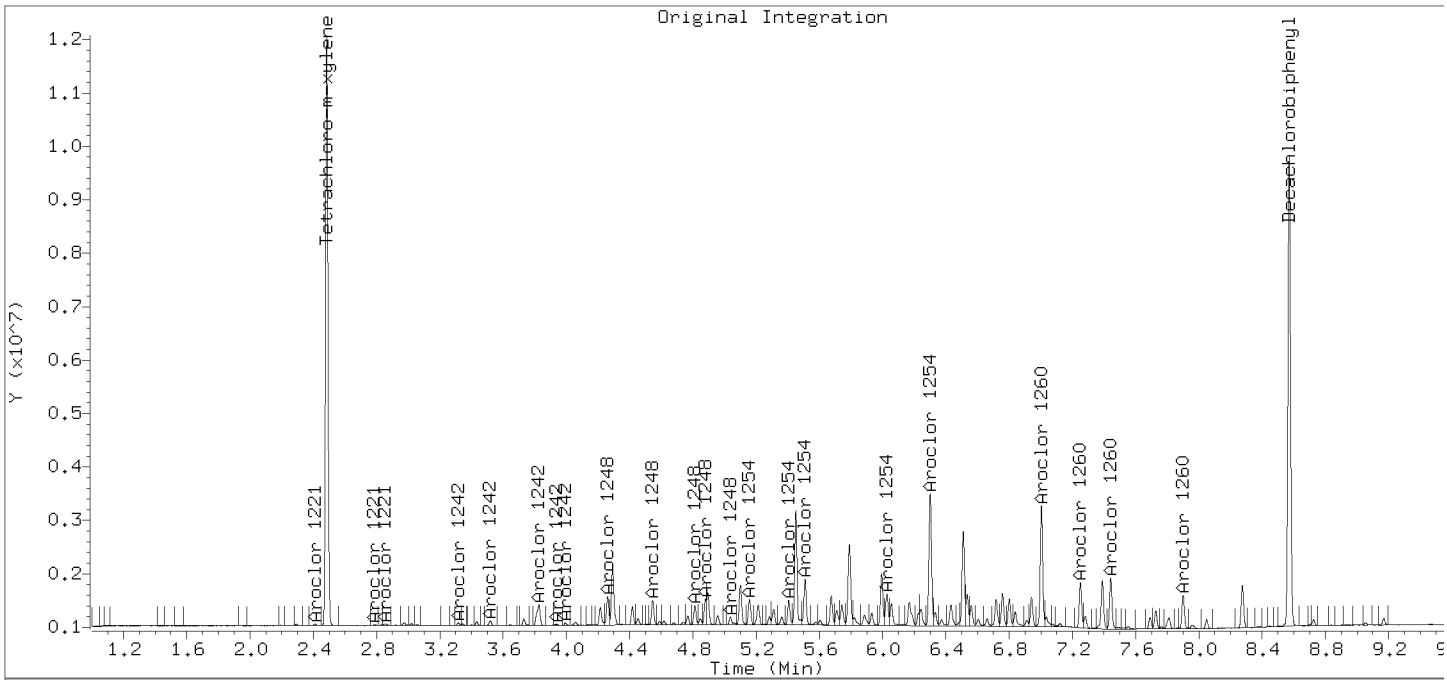
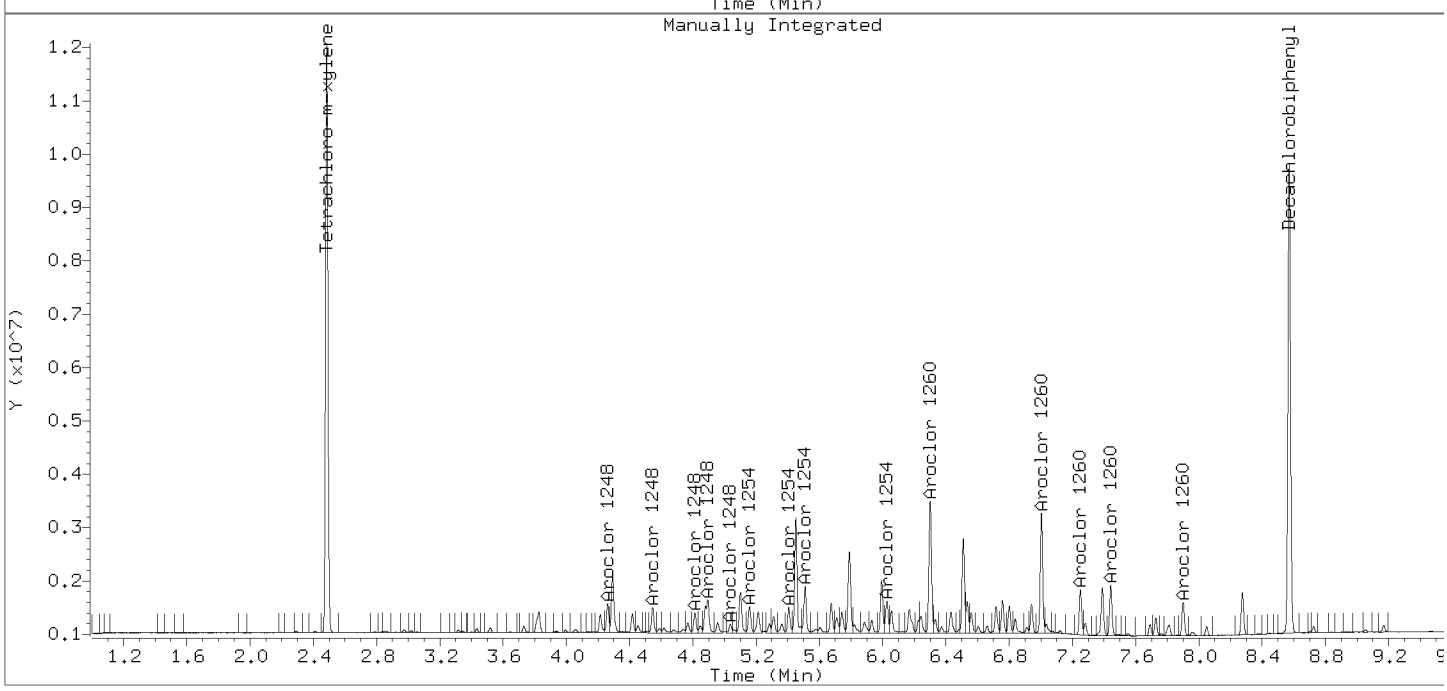
Injection Date: 09-MAR-2018 20:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294017





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	57412	0	
Aroclor 1016	57412	0	
Aroclor 1016	57412	0	
Aroclor 1016	57412	0	
Aroclor 1016	57412	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	46504	0	
Aroclor 1232	46504	0	
Aroclor 1232	46504	0	
Aroclor 1232	46504	0	

Aroclor 1232	46504	0	
Aroclor 1242	57412	0	
Aroclor 1242	57412	0	
Aroclor 1242	57412	0	
Aroclor 1242	57412	0	
Aroclor 1242	57412	0	
Aroclor 1248	557633	582388	CO
Aroclor 1248	557633	582388	CO
Aroclor 1248	557633	582388	CO
Aroclor 1248	557633	582388	CO
Aroclor 1248	557633	582388	CO
Aroclor 1254	528599	584605	BA
Aroclor 1254	528599	584605	BA
Aroclor 1254	528599	584605	BA
Aroclor 1254	528599	584605	BA
Aroclor 1254	528599	584605	BA
Aroclor 1260	2869082	2872416	BA
Aroclor 1260	2869082	2872416	BA
Aroclor 1260	2869082	2872416	BA
Aroclor 1260	2869082	2872416	BA
Aroclor 1260	2869082	2872416	BA
Tetrachloro-m-xylene	11427149	11427149	
Decachlorobiphenyl	10072910	10072910	

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SAMPLE NO.

CS1-170518-01-BB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294018
Date Analyzed: 03/09/2018 20:31
Lab File ID: 030918.B\030918031.D
Initial wt/vol: 9.9684 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)	21.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	70.4	
1336-36-3	PCB, Total	112	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918031.D
Lab Smp Id: 40150294018 Client Smp ID: CS1-170518-01-BB-03
Inj Date : 09-MAR-2018 20:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294018,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	18161	12804	0.705	0.04		
2.409	25025	17541	0.701	0.06		
2.485	10529771	10169798	0.966	28.85	$ 2 Tetrachloro-m-xylene	
2.790	23221	19207	0.827	0.06		
2.860	33894	20038	0.591	0.09	4 Aroclor 1232	BA
2.975	38301	31428	0.821	0.10		
3.021	26274	24659	0.939	0.07		
3.318	13103	14920	1.139	0.03	3 Aroclor 1242	BA
3.399	16093	13333	0.829	0.04		
3.431	23686	18998	0.802	0.06		
3.520	19825	17250	0.870	0.05	3 Aroclor 1242	BA
3.734	28475	19285	0.677	0.07		
3.826	94432	55044	0.583	0.25	3 Aroclor 1242	BA
3.934	21525	11408	0.530	0.05	3 Aroclor 1242	BA
3.992	17288	14276	0.826	0.04	3 Aroclor 1242	BA
4.056	37922	21849	0.576	0.10		
4.214	103768	86492	0.834	0.27		
4.240	60378	63415	1.050	0.16		
4.261	120264	113011	0.940	0.32	6 Aroclor 1248	CO
4.292	251383	204557	0.814	0.67		
4.349	25721	14882	0.579	0.06		
4.417	111683	83158	0.745	0.30		
4.453	63220	39376	0.623	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.547	125931	102910	0.817	0.33	6 Aroclor 1248
4.589	34115	27926	0.819	0.09	
4.613	52700	29714	0.564	0.14	
4.682	43186	20293	0.470	0.11	
4.738	32684	22491	0.688	0.08	
4.766	76979	53590	0.696	0.20	
4.813	119234	99821	0.837	0.32	6 Aroclor 1248
4.846	54315	42407	0.781	0.14	
4.894	280783	150014	0.534	0.75	6 Aroclor 1248
4.958	86148	50866	0.590	0.23	
5.037	64978	52036	0.801	0.17	6 Aroclor 1248
5.059	25459	24384	0.958	0.06	
5.100	242669	193080	0.796	0.65	
5.158	209903	165773	0.790	0.56	7 Aroclor 1254
5.213	191588	137698	0.719	0.51	
5.283	67037	57622	0.860	0.18	
5.312	120929	95152	0.787	0.32	
5.345	42423	44202	1.042	0.11	
5.362	67563	58983	0.873	0.18	
5.406	170453	143743	0.843	0.45	7 Aroclor 1254
5.451	805488	752823	0.935	2.16	
5.509	284779	233420	0.820	0.76	7 Aroclor 1254
5.573	49617	32320	0.651	0.13	
5.601	52873	37979	0.718	0.14	
5.675	231103	210637	0.911	0.62	
5.709	107043	88583	0.828	0.28	
5.742	185997	141217	0.759	0.50	
5.789	673137	557945	0.829	1.81	
5.819	45204	48915	1.082	0.12	
5.885	114691	67494	0.588	0.30	
5.931	118888	93949	0.790	0.32	
5.993	447040	401810	0.899	1.20	
6.026	233045	200428	0.860	0.62	7 Aroclor 1254
6.056	223968	180902	0.808	0.60	
6.169	277308	170738	0.616	0.74	
6.229	96795	106726	1.103	0.26	
6.241	157053	130500	0.831	0.42	
6.301	1185040	994649	0.839	3.19	8 Aroclor 1260
6.334	117145	106131	0.906	0.31	
6.372	66313	48972	0.738	0.17	
6.431	223828	178465	0.797	0.60	
6.509	965250	852274	0.883	2.59	
6.535	241925	229582	0.949	0.65	
6.559	188214	166505	0.885	0.50	
6.605	59128	46753	0.791	0.15	
6.661	68096	58806	0.864	0.18	
6.717	209795	181036	0.863	0.56	
6.758	281178	263684	0.938	0.75	
6.801	235050	217372	0.925	0.63	
6.838	148307	113974	0.768	0.39	
6.911	60935	55912	0.918	0.16	
6.942	217773	202466	0.930	0.58	
7.004	1134995	1060567	0.934	3.05	8 Aroclor 1260
7.035	105557	75825	0.718	0.28	
7.123	35308	29850	0.845	0.09	
7.250	450093	400170	0.889	1.21	8 Aroclor 1260
7.281	144844	116160	0.802	0.38	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.335	23634	16693	0.706	0.06	
7.389	561136	492312	0.877	1.51	
7.441	588573	527301	0.896	1.58	8 Aroclor 1260
7.492	43813	19794	0.452	0.11	
7.552	27217	20335	0.747	0.07	
7.690	124131	116056	0.935	0.33	
7.726	251220	223233	0.889	0.67	
7.760	34792	30075	0.864	0.09	
7.808	163267	94295	0.578	0.43	
7.861	9980	13317	1.334	0.02	
7.899	418227	355433	0.850	1.12	8 Aroclor 1260
7.960	61715	38202	0.619	0.16	
8.048	130972	117745	0.899	0.35	
8.275	579901	538225	0.928	1.56	
8.376	20125	14861	0.738	0.05	
8.453	32584	11956	0.367	0.08	
8.509	10405	7671	0.737	0.02	
8.571	9733411	8601121	0.884	26.20	$ 12 Decachlorobiphenyl
8.704	13035	9242	0.709	0.03	
8.725	60475	50155	0.829	0.16	
8.944	10032	10442	1.041	0.02	
9.054	48730	38418	0.788	0.13	
9.168	103396	90574	0.876	0.27	
9.465	17954	11640	0.648	0.04	
9.960	21138	14594	0.690	0.05	
	37145161	32978663		100.000	

Total unknown % area = 30

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918031.D
Lab Smp Id: 40150294018 Client Smp ID: CS1-170518-01-BB-03
Inj Date : 09-MAR-2018 20:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294018,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10529771	0.08540	43			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	120264	0.05133	26	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	125931	0.03034	15	0.00- 20.00	104.71	CO
4.812	4.812	0.000	119233	0.05873	29	0.00- 20.00	99.14	CO
4.893	4.879	0.014	280782	0.05574	28	0.00- 20.00	233.47	CO
5.037	5.038	-0.001	64977	0.01811	9.1	0.00- 20.00	54.03	CO
Average of Peak Concentrations =					21			
7 Aroclor 1254					CAS #: 11097-69-1			
5.157	5.162	-0.005	209903	0.04009	20	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	170453	0.03963	20	0.00- 20.00	81.21	BA
5.509	5.510	-0.001	284779	0.03667	18	0.00- 20.00	135.67	BA
6.026	6.027	-0.001	233044	0.04786	24	0.00- 20.00	111.02	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					20			
8 Aroclor 1260					CAS #: 11096-82-5			
6.301	6.300	0.001	1185040	0.13372	67	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1134994	0.11334	57	0.00- 20.00	95.78	BA
7.249	7.251	-0.002	450093	0.09417	47	0.00- 20.00	37.98	BA
7.441	7.443	-0.002	588573	0.20190	100	0.00- 20.00	49.67	BA
7.899	7.901	-0.002	418227	0.15850	79	0.00- 20.00	35.29	BA
Average of Peak Concentrations =					70			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9733411	0.08884	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\030918.b\030918031.D

Date : 09-MAR-2018 20:31

Client ID: CS1-170518-01-BB-03

Instrument: 40GCSJ.i

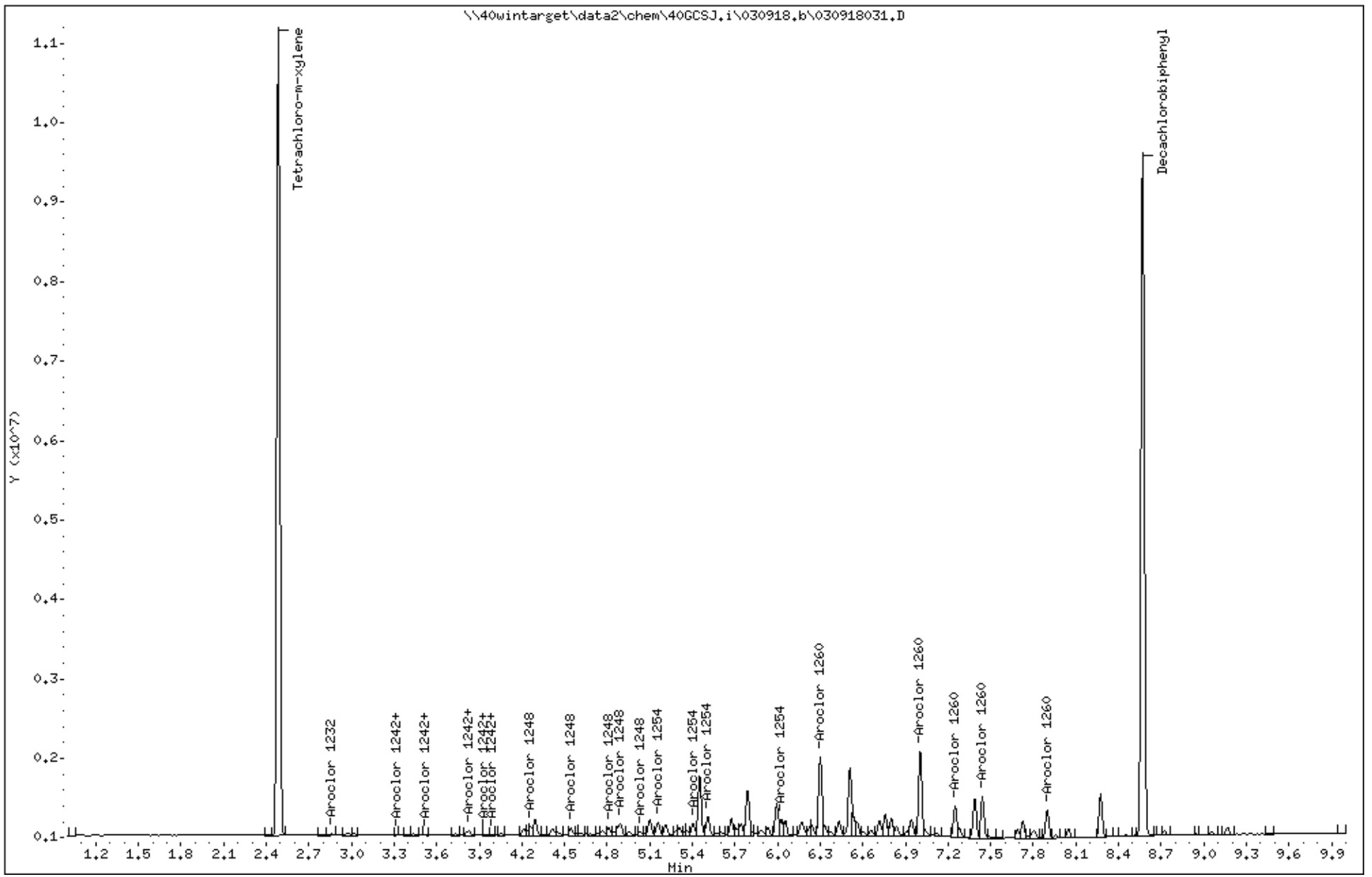
Sample Info: 40150294018,

Volume Injected (uL): 1.0

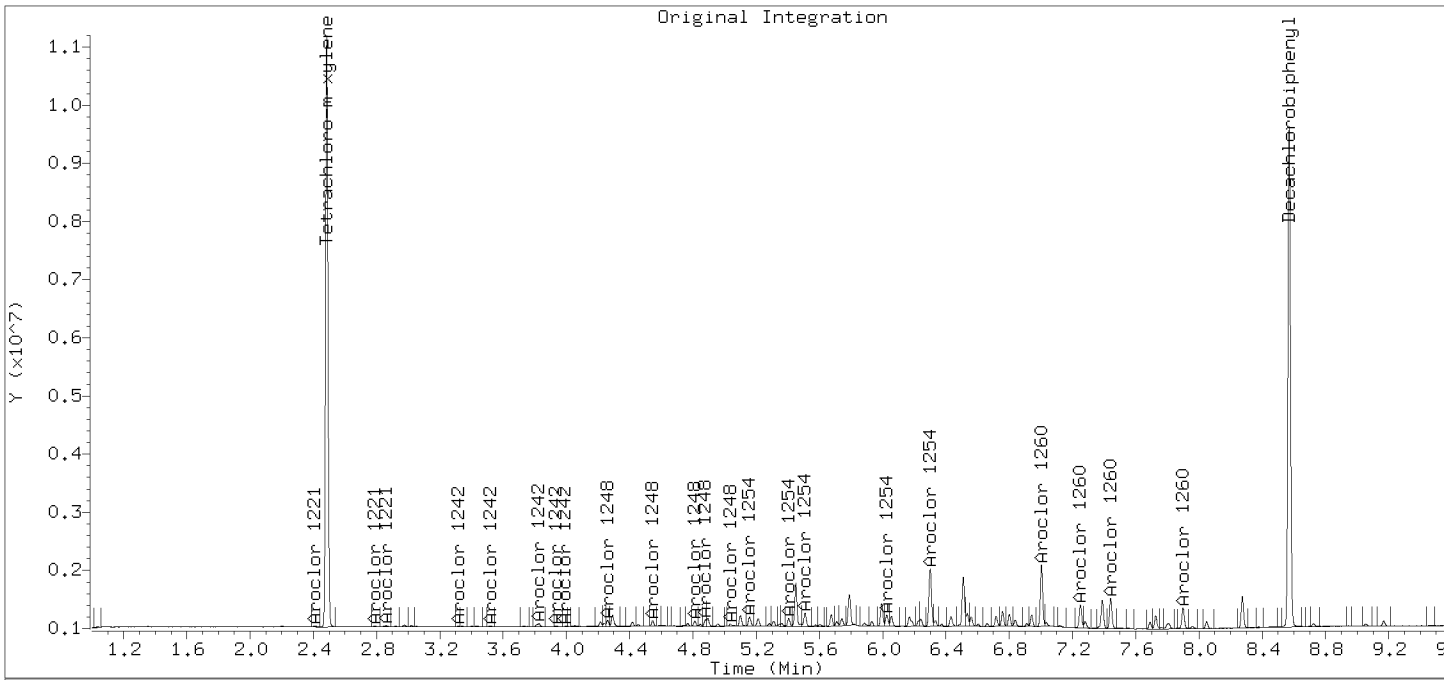
Operator: BLM

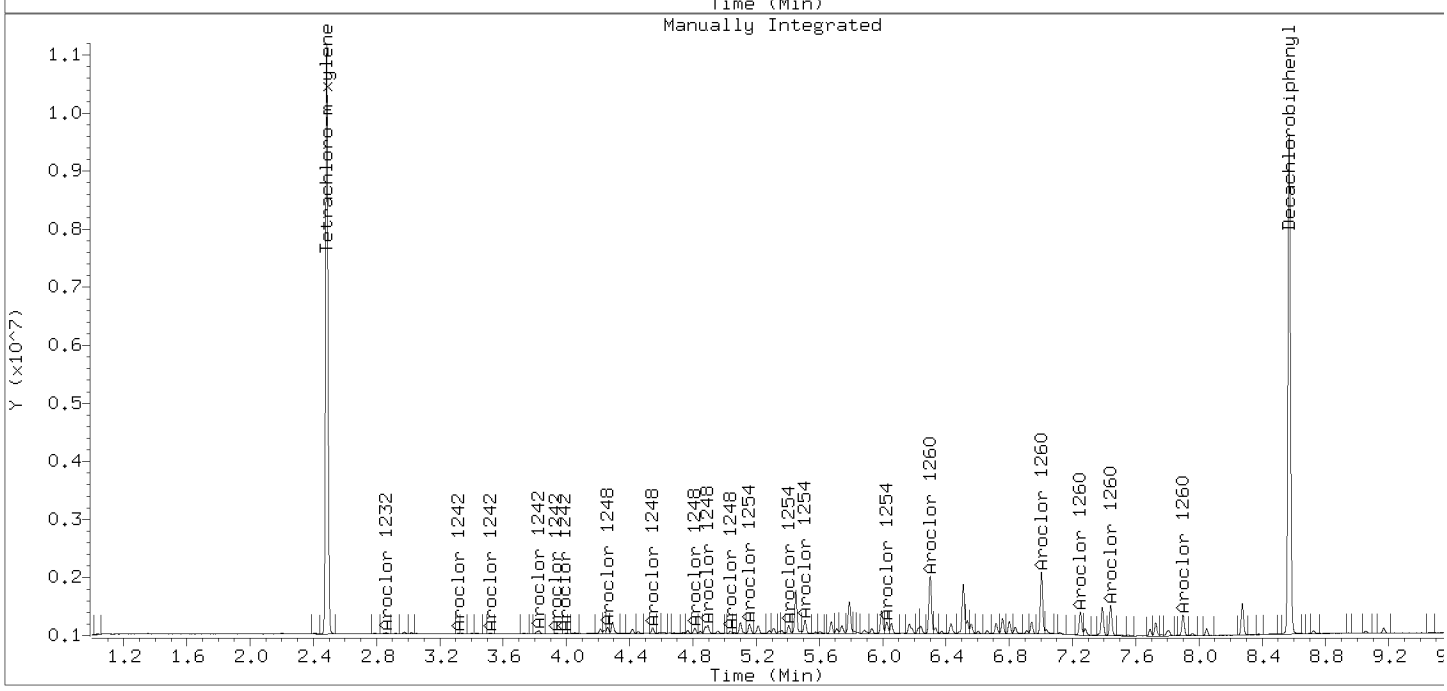
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 20:31 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294018





Manually Integrated Compounds

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

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	109060	120264	CO
Aroclor 1248	109060	120264	CO
Aroclor 1248	109060	120264	CO
Aroclor 1248	109060	120264	CO
Aroclor 1248	109060	120264	CO
Aroclor 1254	182470	209903	BA
Aroclor 1254	182470	209903	BA
Aroclor 1254	182470	209903	BA
Aroclor 1254	182470	209903	BA
Aroclor 1254	182470	209903	BA
Aroclor 1260	1161497	1185040	BA
Aroclor 1260	1161497	1185040	BA
Aroclor 1260	1161497	1185040	BA
Aroclor 1260	1161497	1185040	BA
Aroclor 1260	1161497	1185040	BA
Tetrachloro-m-xylene	10529771	10529771	
Decachlorobiphenyl	9733411	9733411	

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SAMPLE NO.

CS1-170518-01-BB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294019
Date Analyzed: 03/09/2018 20:47
Lab File ID: 030918.B\030918032.D
Initial wt/vol: 9.9746 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)	186	
11097-69-1	PCB-1254 (Aroclor 1254)	115	
11096-82-5	PCB-1260 (Aroclor 1260)	114	
1336-36-3	PCB, Total	416	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918032.D
Lab Smp Id: 40150294019 Client Smp ID: CS1-170518-01-BB-02
Inj Date : 09-MAR-2018 20:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294019,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.975	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	13751	10333	0.751	0.01		
1.074	14106	10593	0.751	0.01		
1.181	19910	14237	0.715	0.02		
1.428	12509	9795	0.783	0.01		
1.534	18262	12846	0.703	0.02		
1.952	14408	11708	0.813	0.01		
2.171	9491	9856	1.038	0.01		
2.197	11988	10992	0.917	0.01		
2.293	19566	21095	1.078	0.02		
2.410	50525	41701	0.825	0.06		
2.484	11695777	11471901	0.981	15.85	$ 2 Tetrachloro-m-xylene	
2.786	29894	25114	0.840	0.03		
2.856	57904	31840	0.550	0.07		
2.973	80553	65200	0.809	0.10		
3.019	53756	51744	0.963	0.07		
3.053	29041	23670	0.815	0.03		
3.318	95565	91511	0.958	0.12		
3.343	40003	39758	0.994	0.05		
3.399	10114	11259	1.113	0.01		
3.433	117760	107560	0.913	0.15		
3.519	176420	157464	0.893	0.23		
3.645	40735	36248	0.890	0.05		
3.732	394093	352086	0.893	0.51		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	1597588	1010196	0.632	2.08	
3.922	59304	35910	0.606	0.07	
3.993	112859	104338	0.925	0.14	
4.058	147661	118217	0.801	0.19	
4.135	53698	42063	0.783	0.07	
4.214	841942	748249	0.889	1.09	
4.260	1505234	1458326	0.969	1.96	6 Aroclor 1248
4.292	2714890	2370272	0.873	3.54	
4.346	45754	30857	0.674	0.05	
4.417	781725	746407	0.955	1.02	
4.452	296320	264278	0.892	0.38	
4.545	1221173	1145490	0.938	1.59	6 Aroclor 1248
4.589	142887	134220	0.939	0.18	
4.617	182277	158353	0.869	0.23	
4.680	128560	110245	0.858	0.16	
4.738	153914	121746	0.791	0.20	
4.767	319123	303417	0.951	0.41	
4.813	791410	759447	0.960	1.03	6 Aroclor 1248
4.848	315034	297605	0.945	0.41	
4.894	2174676	1230690	0.566	2.83	6 Aroclor 1248
4.957	452461	397462	0.878	0.59	
5.002	28097	25394	0.904	0.03	
5.035	361597	337758	0.934	0.47	6 Aroclor 1248
5.056	64071	72634	1.134	0.08	
5.100	1521669	1358293	0.893	1.98	
5.158	1047897	886659	0.846	1.36	7 Aroclor 1254
5.212	1135651	975689	0.859	1.48	
5.254	32319	29955	0.927	0.04	
5.283	248255	238184	0.959	0.32	
5.310	590872	503340	0.852	0.77	
5.361	416411	378385	0.909	0.54	
5.405	940634	863404	0.918	1.22	7 Aroclor 1254
5.451	2706919	2571464	0.950	3.53	
5.477	217360	226027	1.040	0.28	
5.509	2064798	1861910	0.902	2.69	7 Aroclor 1254
5.577	129301	111696	0.864	0.16	
5.604	230688	191540	0.830	0.30	
5.674	923158	870609	0.943	1.20	
5.709	529369	451936	0.854	0.69	
5.742	567781	454668	0.801	0.74	
5.788	2392590	1938474	0.810	3.12	
5.821	299601	242965	0.811	0.39	
5.883	417453	271847	0.651	0.54	
5.931	296526	246568	0.832	0.38	
5.992	978274	909785	0.930	1.27	
6.025	1141452	977061	0.856	1.48	7 Aroclor 1254
6.055	1336436	1188653	0.889	1.74	
6.168	802730	478787	0.596	1.04	
6.229	203384	233109	1.146	0.26	
6.242	411263	325830	0.792	0.53	
6.299	3415805	2862386	0.838	4.45	8 Aroclor 1260
6.332	310663	287262	0.925	0.40	
6.373	160443	127540	0.795	0.20	
6.431	475582	376450	0.792	0.62	
6.487	60132	60172	1.001	0.07	
6.509	1621237	1488937	0.918	2.11	
6.534	682100	628716	0.922	0.89	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.560	379606	335821	0.885	0.49	
6.604	137435	106985	0.778	0.17	
6.658	133434	112625	0.844	0.17	
6.717	605162	546367	0.903	0.78	
6.757	591048	519572	0.879	0.77	
6.801	498234	438671	0.880	0.65	
6.838	297525	228577	0.768	0.38	
6.888	20489	20803	1.015	0.02	
6.911	85639	80930	0.945	0.11	
6.941	615172	586569	0.954	0.80	
7.004	1751481	1596061	0.911	2.28	8 Aroclor 1260
7.034	188078	129285	0.687	0.24	
7.100	8258	12662	1.533	0.01	
7.121	70163	56957	0.812	0.09	
7.250	766691	696317	0.908	1.00	8 Aroclor 1260
7.281	218387	175360	0.803	0.28	
7.340	22459	18539	0.825	0.02	
7.389	742380	630367	0.849	0.96	
7.442	718631	647639	0.901	0.93	8 Aroclor 1260
7.493	48395	25740	0.532	0.06	
7.554	47120	31338	0.665	0.06	
7.690	167362	159285	0.952	0.21	
7.727	265235	240455	0.907	0.34	
7.762	41492	35355	0.852	0.05	
7.811	246103	181116	0.736	0.32	
7.861	17300	15195	0.878	0.02	
7.899	460174	428391	0.931	0.60	8 Aroclor 1260
7.961	83779	46581	0.556	0.10	
8.048	301902	286945	0.950	0.39	
8.274	590200	541377	0.917	0.77	
8.381	36487	22416	0.614	0.04	
8.448	28296	21848	0.772	0.03	
8.481	14705	11635	0.791	0.01	
8.570	10182794	9031306	0.887	13.28	$ 12 Decachlorobiphenyl
8.639	21641	15480	0.715	0.02	
8.701	21334	22646	1.061	0.02	
8.723	102954	89979	0.874	0.13	
8.834	16843	12253	0.728	0.02	
8.942	23299	17229	0.739	0.03	
9.055	63052	47190	0.748	0.08	
9.169	144593	132091	0.914	0.18	
9.471	31977	20690	0.647	0.04	
9.733	10542	9623	0.913	0.01	
	76624989	67646657		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918032.D
Lab Smp Id: 40150294019 Client Smp ID: CS1-170518-01-BB-02
Inj Date : 09-MAR-2018 20:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294019,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.975	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	11695776	0.09486	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1505234	0.64245	320	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1221172	0.29424	150	0.00- 20.00	81.13	CO
4.813	4.812	0.001	791410	0.38984	200	0.00- 20.00	52.58	CO
4.894	4.879	0.015	2174676	0.43170	220	0.00- 20.00	144.47	CO
5.035	5.038	-0.003	361596	0.10076	50	0.00- 20.00	24.02	CO
			Average of Peak Concentrations =		190			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1047896	0.20016	100	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	940633	0.21870	110	0.00- 20.00	89.76	BA
5.508	5.510	-0.002	2064797	0.26587	130	0.00- 20.00	197.04	BA
6.025	6.027	-0.002	1141452	0.23440	120	0.00- 20.00	108.93	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3415805	0.38543	190	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1751480	0.17490	88	0.00- 20.00	51.28	BA
7.250	7.251	-0.001	766691	0.16040	80	0.00- 20.00	22.45	BA
7.442	7.443	-0.001	718630	0.24652	120	0.00- 20.00	21.04	BA
7.898	7.901	-0.003	460173	0.17439	87	0.00- 20.00	13.47	BA
			Average of Peak Concentrations =		110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10182793	0.09294	46			

QC Flag Legend

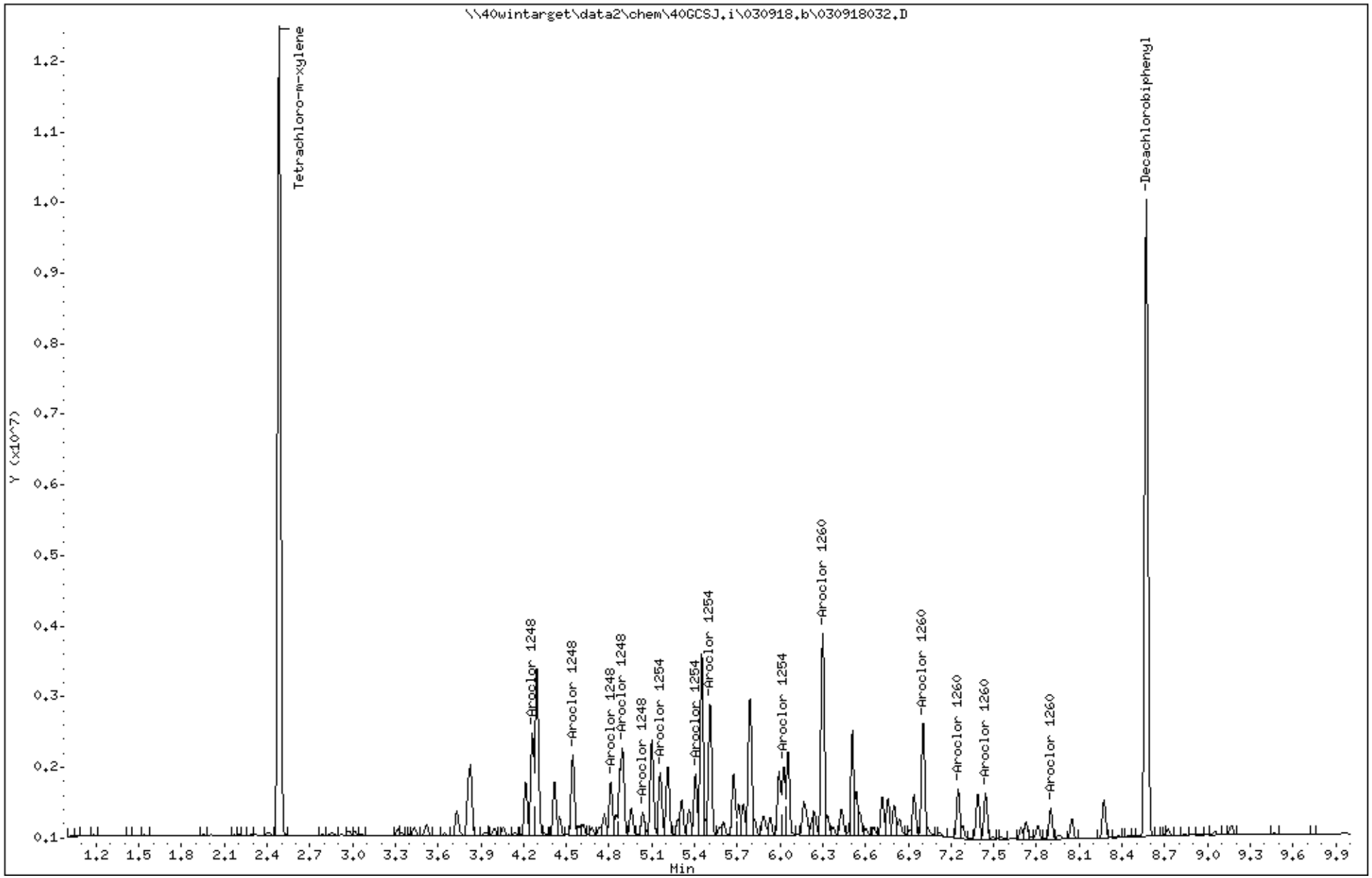
M - Compound response manually integrated.

Review Codes Legend

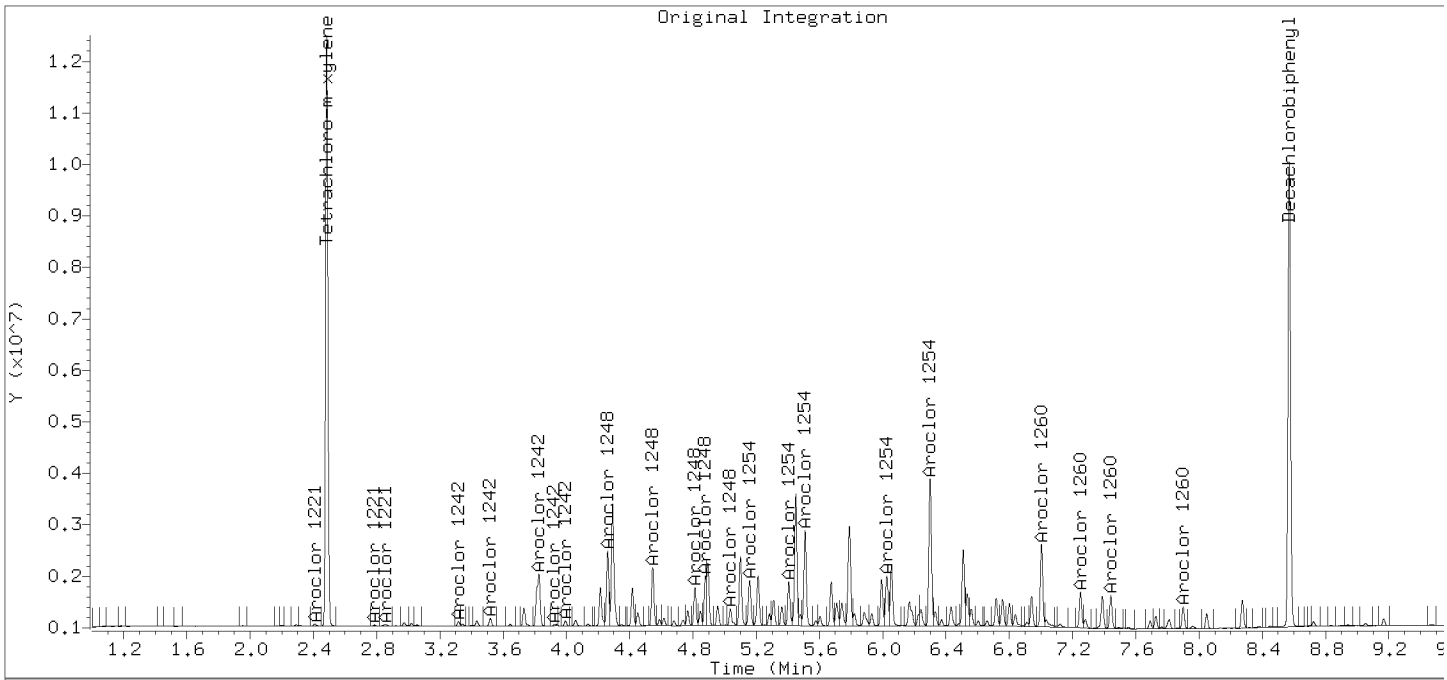
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

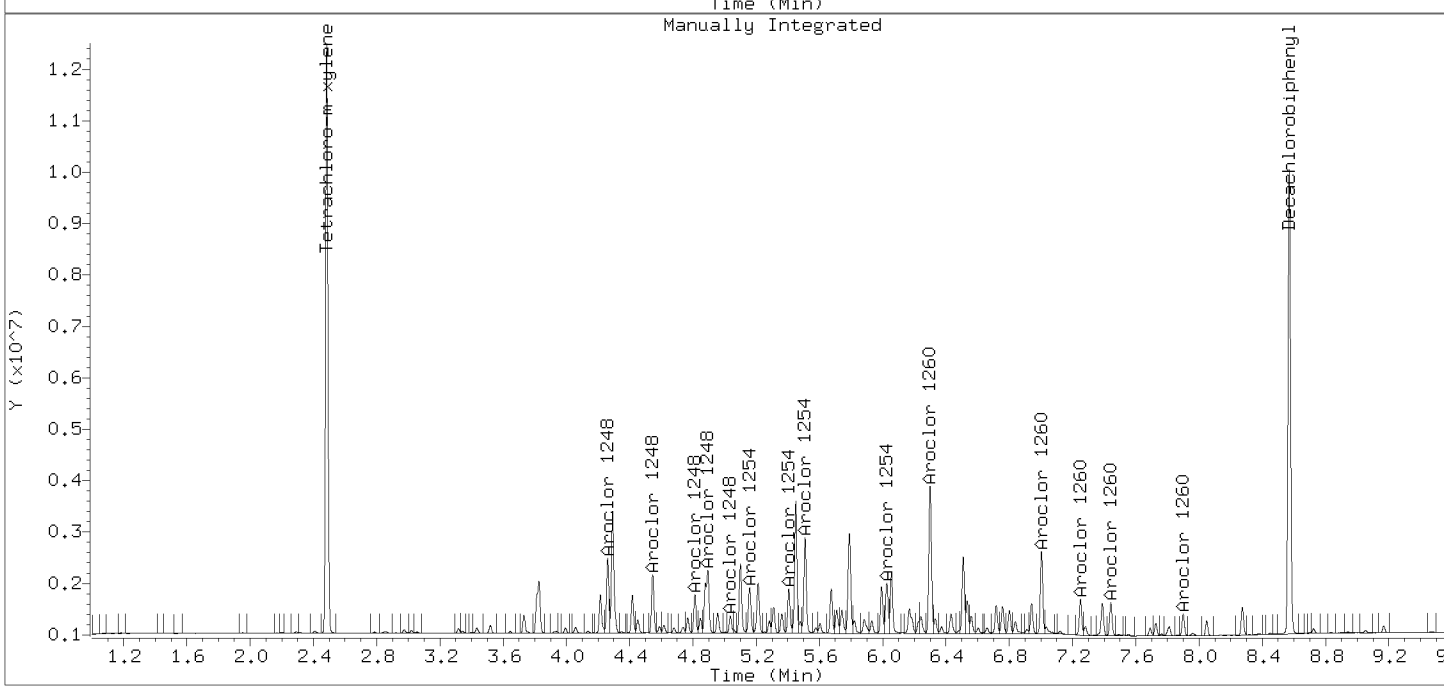
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918032.D
Date : 09-MAR-2018 20:47
Client ID: CS1-170518-01-BB-02
Sample Info: 40150294019,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 20:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	95565	0	
Aroclor 1016	95565	0	
Aroclor 1016	95565	0	
Aroclor 1016	95565	0	
Aroclor 1016	95565	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	57904	0	
Aroclor 1232	57904	0	
Aroclor 1232	57904	0	
Aroclor 1232	57904	0	

Aroclor 1232	57904	0	
Aroclor 1242	95565	0	
Aroclor 1242	95565	0	
Aroclor 1242	95565	0	
Aroclor 1242	95565	0	
Aroclor 1242	95565	0	
Aroclor 1248	1487883	1505234	CO
Aroclor 1248	1487883	1505234	CO
Aroclor 1248	1487883	1505234	CO
Aroclor 1248	1487883	1505234	CO
Aroclor 1248	1487883	1505234	CO
Aroclor 1254	1012114	1047896	BA
Aroclor 1254	1012114	1047896	BA
Aroclor 1254	1012114	1047896	BA
Aroclor 1254	1012114	1047896	BA
Aroclor 1254	1012114	1047896	BA
Aroclor 1260	3375593	3415805	BA
Aroclor 1260	3375593	3415805	BA
Aroclor 1260	3375593	3415805	BA
Aroclor 1260	3375593	3415805	BA
Aroclor 1260	3375593	3415805	BA
Tetrachloro-m-xylene	11695776	11695776	
Decachlorobiphenyl	10182793	10182793	

==========

SAMPLE NO.

CS1-170518-01-BB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 40150294020
Date Analyzed: 03/09/2018 21:03
Lab File ID: 030918.B\030918033.D
Initial wt/vol: 10.0097 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)	30.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	19.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	25.7	J
1336-36-3	PCB, Total	75.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918033.D
Lab Smp Id: 40150294020 Client Smp ID: CS1-170518-01-BB-01
Inj Date : 09-MAR-2018 21:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294020,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.036	16661	12228	0.734	0.05		
1.186	9491	9242	0.974	0.03		
1.429	9230	7952	0.862	0.03		
1.537	15210	10925	0.718	0.04		
2.192	22968	13964	0.608	0.07		
2.292	22772	12358	0.543	0.07		
2.409	22174	14645	0.660	0.07		
2.484	10353791	10100691	0.976	34.40	$ 2 Tetrachloro-m-xylene	
2.789	20094	18821	0.937	0.06		
2.855	33056	23158	0.701	0.10		
2.915	10644	8420	0.791	0.03		
2.972	29196	25070	0.859	0.09		
3.019	20716	19215	0.928	0.06		
3.052	9291	10043	1.081	0.03		
3.317	25537	22688	0.888	0.08	3 Aroclor 1242	BA
3.345	20715	17430	0.841	0.06		
3.398	16991	13348	0.786	0.05		
3.433	32123	27918	0.869	0.10		
3.519	56067	47676	0.850	0.18	3 Aroclor 1242	BA
3.731	58252	47168	0.810	0.19		
3.826	208591	130865	0.627	0.68	3 Aroclor 1242	BA
3.928	21658	13866	0.640	0.07	3 Aroclor 1242	BA
3.992	33846	27222	0.804	0.11	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.056	46147	26892	0.583	0.15	
4.216	159202	140748	0.884	0.52	
4.238	60848	67790	1.114	0.19	
4.261	220682	213837	0.969	0.72	6 Aroclor 1248
4.293	395902	340072	0.859	1.29	
4.417	169176	151644	0.896	0.55	
4.452	74768	59017	0.789	0.24	
4.545	199728	185250	0.928	0.65	6 Aroclor 1248
4.588	31006	26573	0.857	0.10	
4.616	48636	36283	0.746	0.15	
4.677	31028	23257	0.750	0.10	
4.738	28387	23512	0.828	0.09	
4.766	86697	73923	0.853	0.28	
4.813	142004	127999	0.901	0.46	6 Aroclor 1248
4.847	49850	45872	0.920	0.16	
4.895	367308	201030	0.547	1.20	6 Aroclor 1248
4.956	70589	59110	0.837	0.23	
5.037	72648	69411	0.955	0.23	6 Aroclor 1248
5.062	19496	17748	0.910	0.06	
5.100	253933	210504	0.829	0.83	
5.159	178985	141379	0.790	0.58	7 Aroclor 1254
5.213	178227	142826	0.801	0.58	
5.281	52991	43040	0.812	0.17	
5.312	102438	87168	0.851	0.33	
5.347	57355	61932	1.080	0.18	
5.363	94501	72127	0.763	0.30	
5.406	160254	138758	0.866	0.52	7 Aroclor 1254
5.451	401467	371569	0.926	1.31	
5.479	41084	42474	1.034	0.13	
5.509	343282	302374	0.881	1.12	7 Aroclor 1254
5.578	39177	29248	0.747	0.12	
5.601	60092	40392	0.672	0.19	
5.675	132293	120588	0.912	0.43	
5.709	88506	71769	0.811	0.28	
5.743	96267	75491	0.784	0.31	
5.789	422210	346387	0.820	1.38	
5.820	42244	46740	1.106	0.13	
5.838	74767	58797	0.786	0.24	
5.882	81581	46615	0.571	0.26	
5.931	54840	44910	0.819	0.17	
5.992	195143	168846	0.865	0.63	
6.025	194837	163542	0.839	0.63	7 Aroclor 1254
6.056	166075	139344	0.839	0.54	
6.168	151639	80531	0.531	0.49	
6.241	121511	60822	0.501	0.39	
6.300	562421	465969	0.829	1.84	8 Aroclor 1260
6.334	63697	51897	0.815	0.20	
6.372	46378	28625	0.617	0.15	
6.432	96446	70286	0.729	0.31	
6.478	12247	14141	1.155	0.04	
6.508	305213	276859	0.907	0.99	
6.535	119159	111534	0.936	0.38	
6.560	75266	64601	0.858	0.24	
6.605	16690	15147	0.908	0.05	
6.638	1936	4074	2.105	0.00	
6.659	25763	22321	0.866	0.08	
6.718	112927	92748	0.821	0.36	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.759	103499	89836	0.868	0.33	
6.800	93907	80491	0.857	0.30	
6.838	61525	44449	0.722	0.20	
6.911	20145	20013	0.993	0.06	
6.942	84223	77710	0.923	0.27	
7.003	370505	335092	0.904	1.21	8 Aroclor 1260
7.034	30952	28927	0.935	0.10	
7.073	21304	14094	0.662	0.06	
7.122	61479	22599	0.368	0.20	
7.208	18063	12879	0.713	0.05	
7.249	169895	140655	0.828	0.55	8 Aroclor 1260
7.282	72030	51986	0.722	0.23	
7.339	21779	16911	0.776	0.07	
7.389	182727	151553	0.829	0.59	
7.442	206417	167621	0.812	0.67	8 Aroclor 1260
7.581	10933	10288	0.941	0.03	
7.690	44332	39410	0.889	0.14	
7.727	107167	91023	0.849	0.35	
7.767	24679	15690	0.636	0.08	
7.804	55491	34190	0.616	0.18	
7.899	133424	114220	0.856	0.43	8 Aroclor 1260
7.957	14366	10365	0.722	0.04	
8.049	36931	31787	0.861	0.12	
8.274	230031	214863	0.934	0.75	
8.379	32396	21686	0.669	0.10	
8.571	9561927	8545256	0.894	31.28	$ 12 Decachlorobiphenyl
8.725	16962	13219	0.779	0.05	
8.941	35958	26209	0.729	0.11	
9.051	10081	9337	0.926	0.03	
9.166	33681	28336	0.841	0.11	
9.468	58265	36541	0.627	0.19	
9.962	68835	45337	0.659	0.22	
	30560927	27393829		100.000	

Total unknown % area = 22

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918033.D
Lab Smp Id: 40150294020 Client Smp ID: CS1-170518-01-BB-01
Inj Date : 09-MAR-2018 21:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150294020,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.010	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	10353790	0.08398	42			
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	220681	0.09419	47	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	199727	0.04812	24	0.00- 20.00	90.50	CO
4.812	4.812	0.000	142003	0.06995	35	0.00- 20.00	64.35	CO
4.894	4.879	0.015	367307	0.07292	36	0.00- 20.00	166.44	CO
5.036	5.038	-0.002	72647	0.02024	10	0.00- 20.00	32.92	CO
Average of Peak Concentrations =					30			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	178984	0.03419	17	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	160254	0.03726	19	0.00- 20.00	89.54	BA
5.508	5.510	-0.002	343281	0.04420	22	0.00- 20.00	191.79	BA
6.025	6.027	-0.002	194837	0.04001	20	0.00- 20.00	108.86	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					19			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	562421	0.06346	32	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	370505	0.03700	18	0.00- 20.00	65.88	BA
7.248	7.251	-0.003	169894	0.03554	18	0.00- 20.00	30.21	BA
7.441	7.443	-0.002	206417	0.07081	35	0.00- 20.00	36.70	BA
7.899	7.901	-0.002	133423	0.05056	25	0.00- 20.00	23.72	BA
Average of Peak Concentrations =					26			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	9561927	0.08728	44			

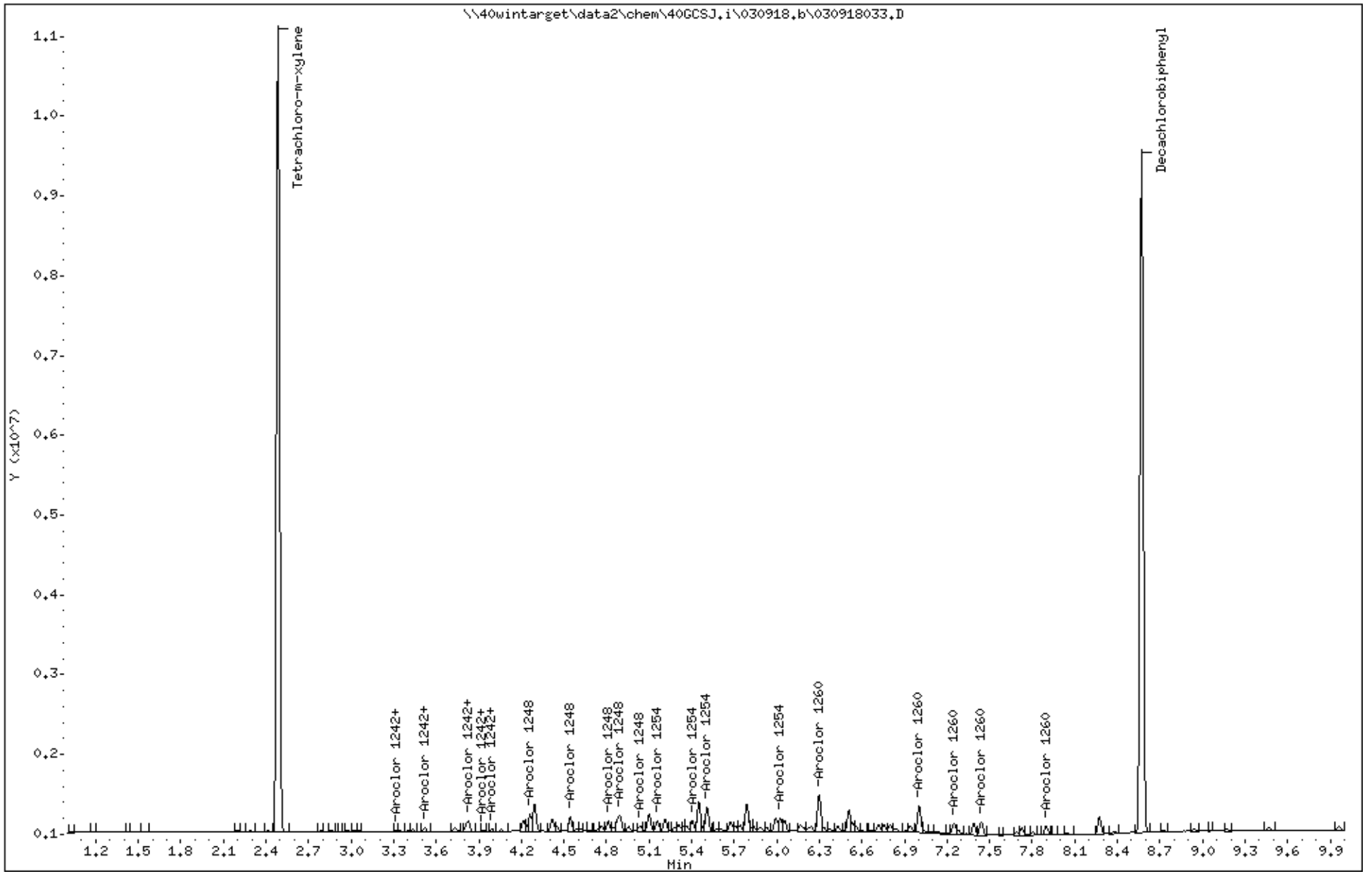
QC Flag Legend

M - Compound response manually integrated.

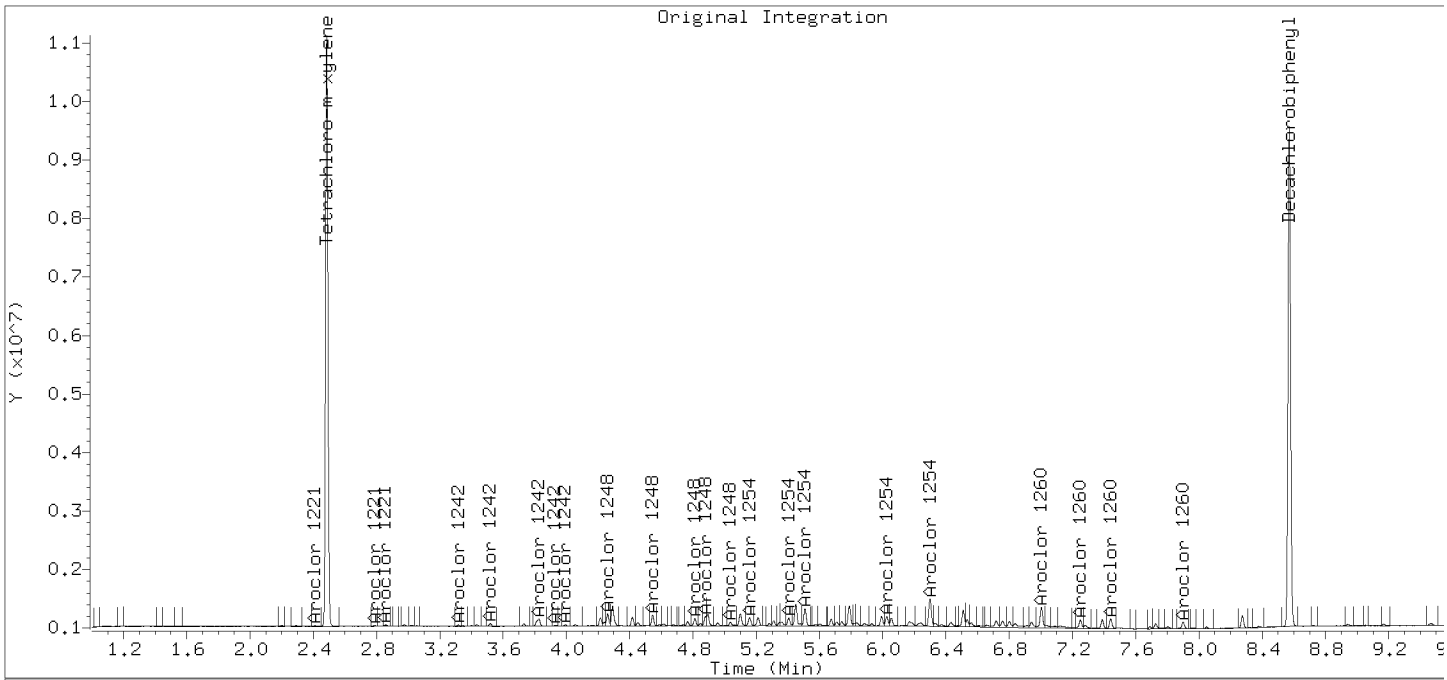
Review Codes Legend

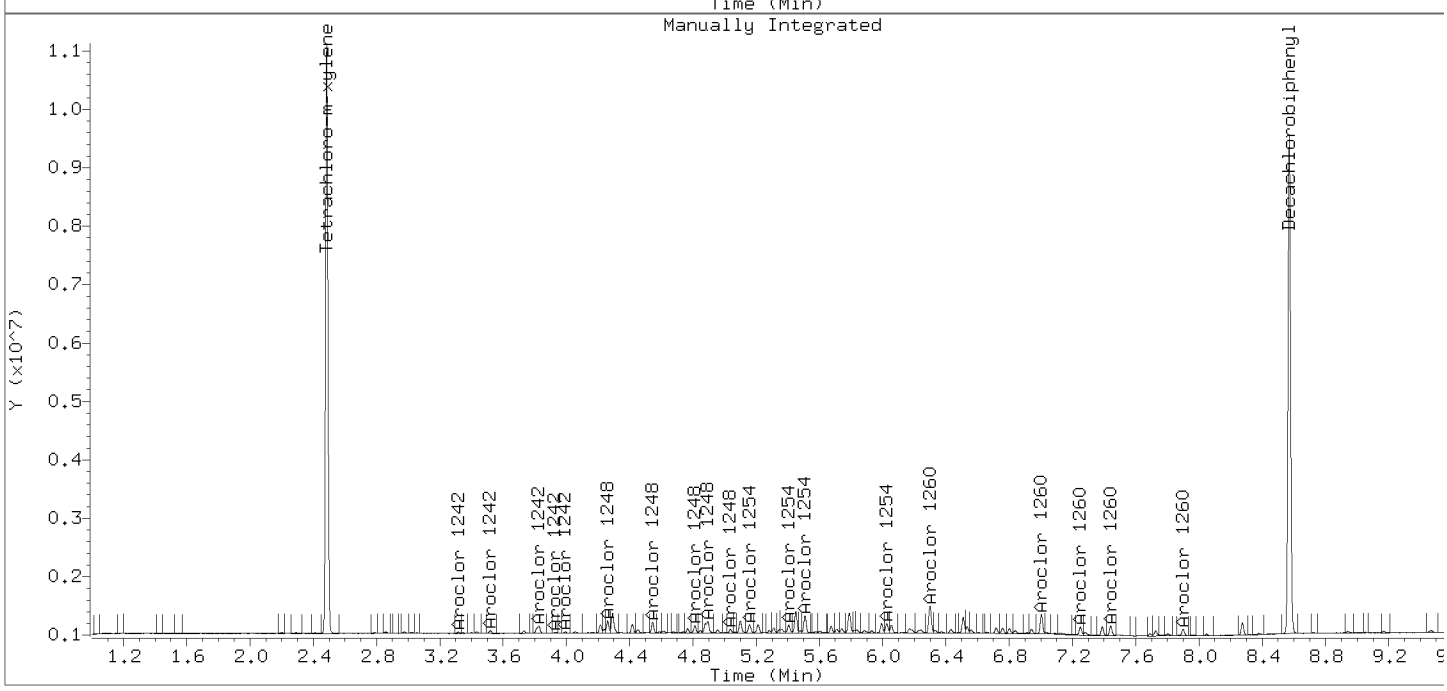
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918033.D
Date : 09-MAR-2018 21:03
Client ID: CS1-170518-01-BB-01
Instrument: 40GCSJ.i
Sample Info: 40150294020,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 21:03 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150294020





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	33055	0	
Aroclor 1232	33055	0	
Aroclor 1232	33055	0	
Aroclor 1232	33055	0	

Aroclor 1232	33055	0	
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	210544	220681	CO
Aroclor 1248	210544	220681	CO
Aroclor 1248	210544	220681	CO
Aroclor 1248	210544	220681	CO
Aroclor 1248	210544	220681	CO
Aroclor 1254	163111	178984	BA
Aroclor 1254	163111	178984	BA
Aroclor 1254	163111	178984	BA
Aroclor 1254	163111	178984	BA
Aroclor 1254	163111	178984	BA
Aroclor 1260	564470	562421	BA
Aroclor 1260	564470	562421	BA
Aroclor 1260	564470	562421	BA
Aroclor 1260	564470	562421	BA
Aroclor 1260	564470	562421	BA
Tetrachloro-m-xylene	10353790	10353790	
Decachlorobiphenyl	9561927	9561927	

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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.: 40150294

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.: 40150294

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.: 40150294

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.: 40150294

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.: 40150294

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40150294

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.: 40150294

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

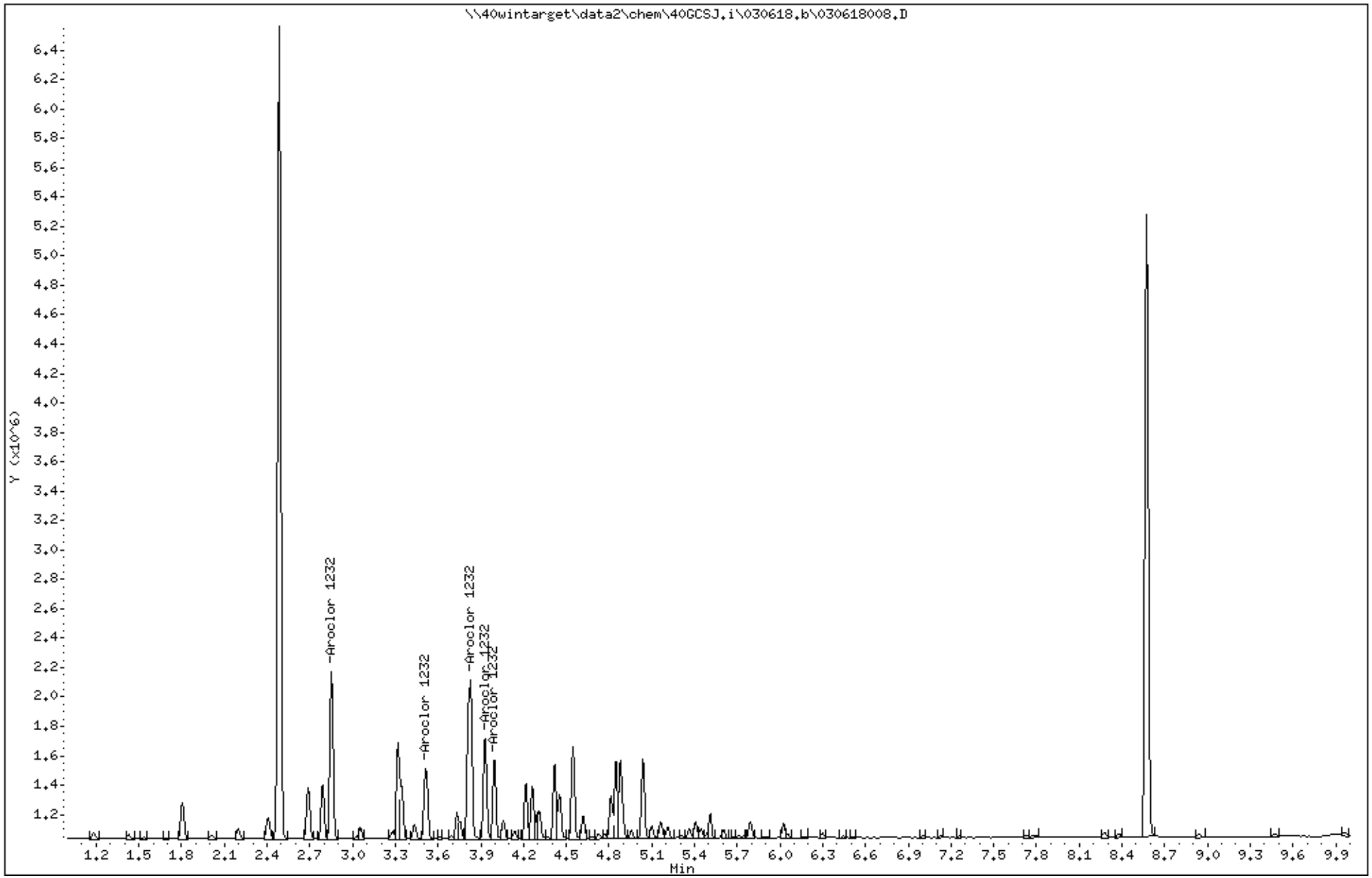
M - Compound response manually integrated.

Review Codes Legend

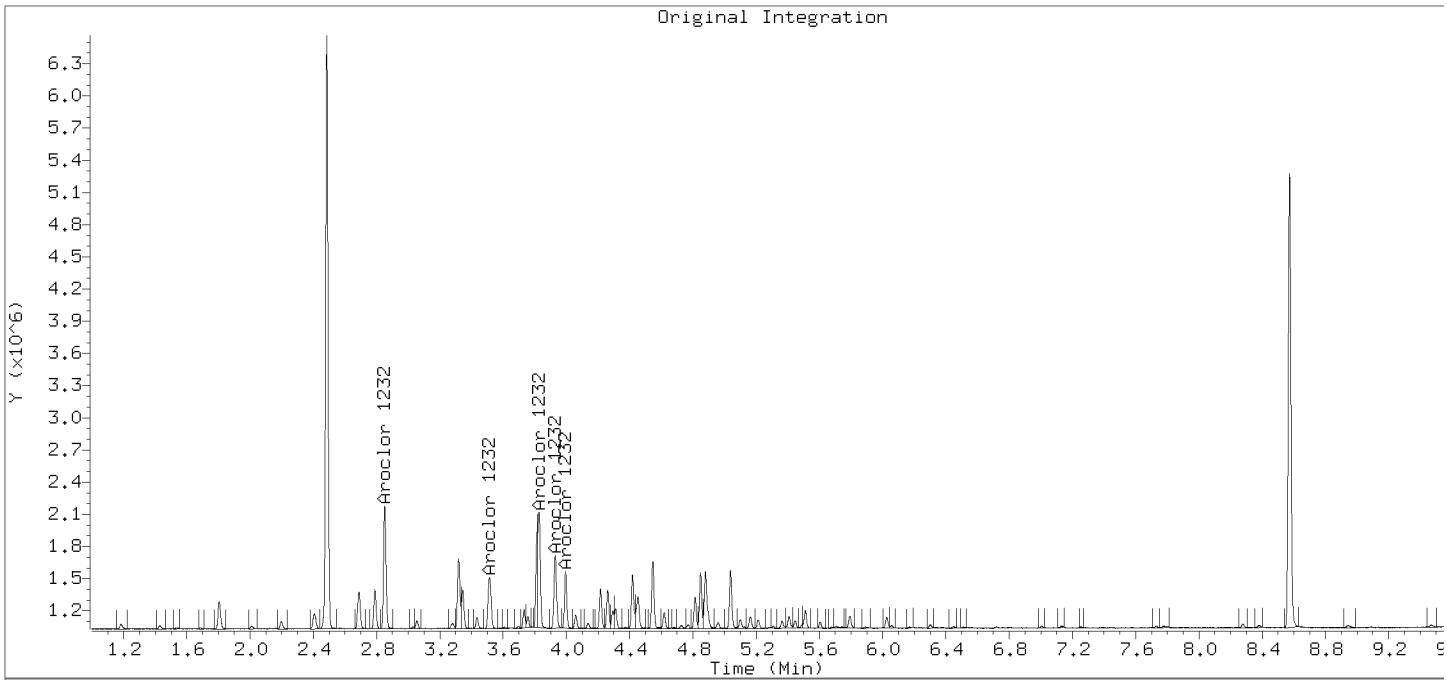
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

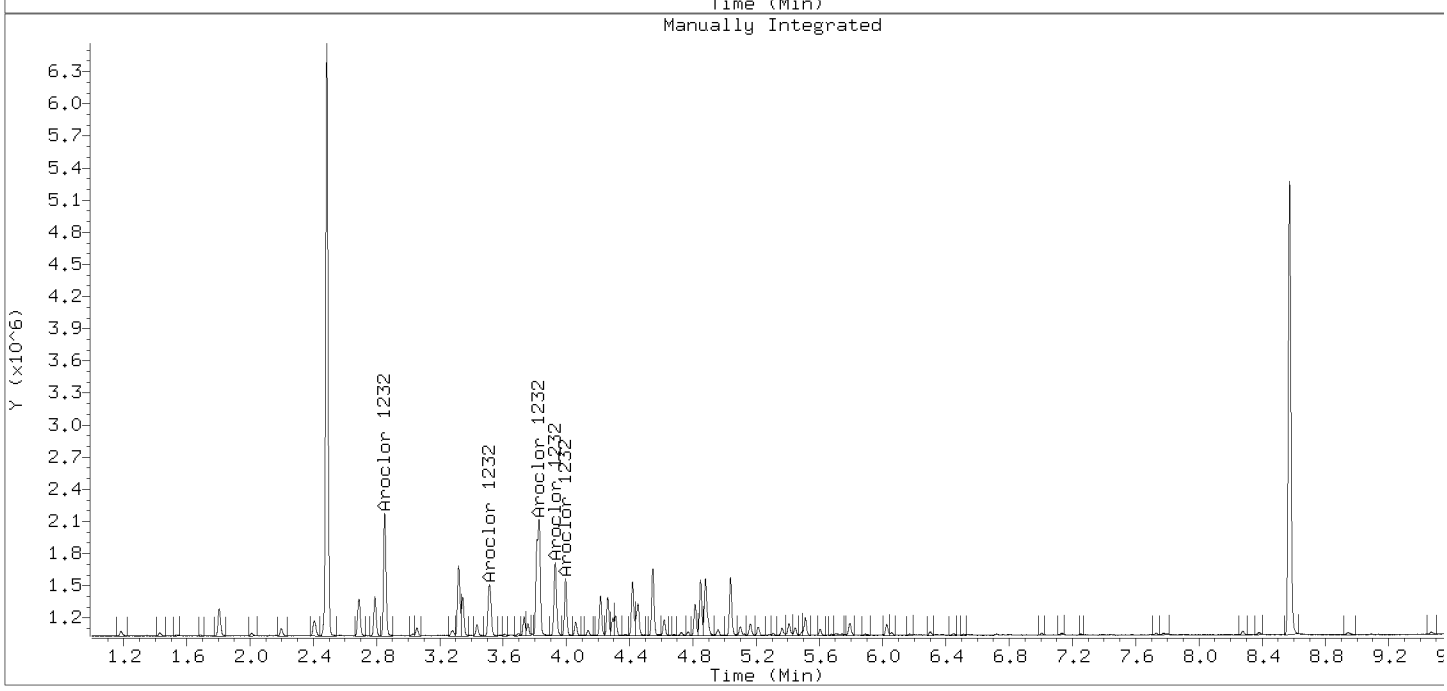
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

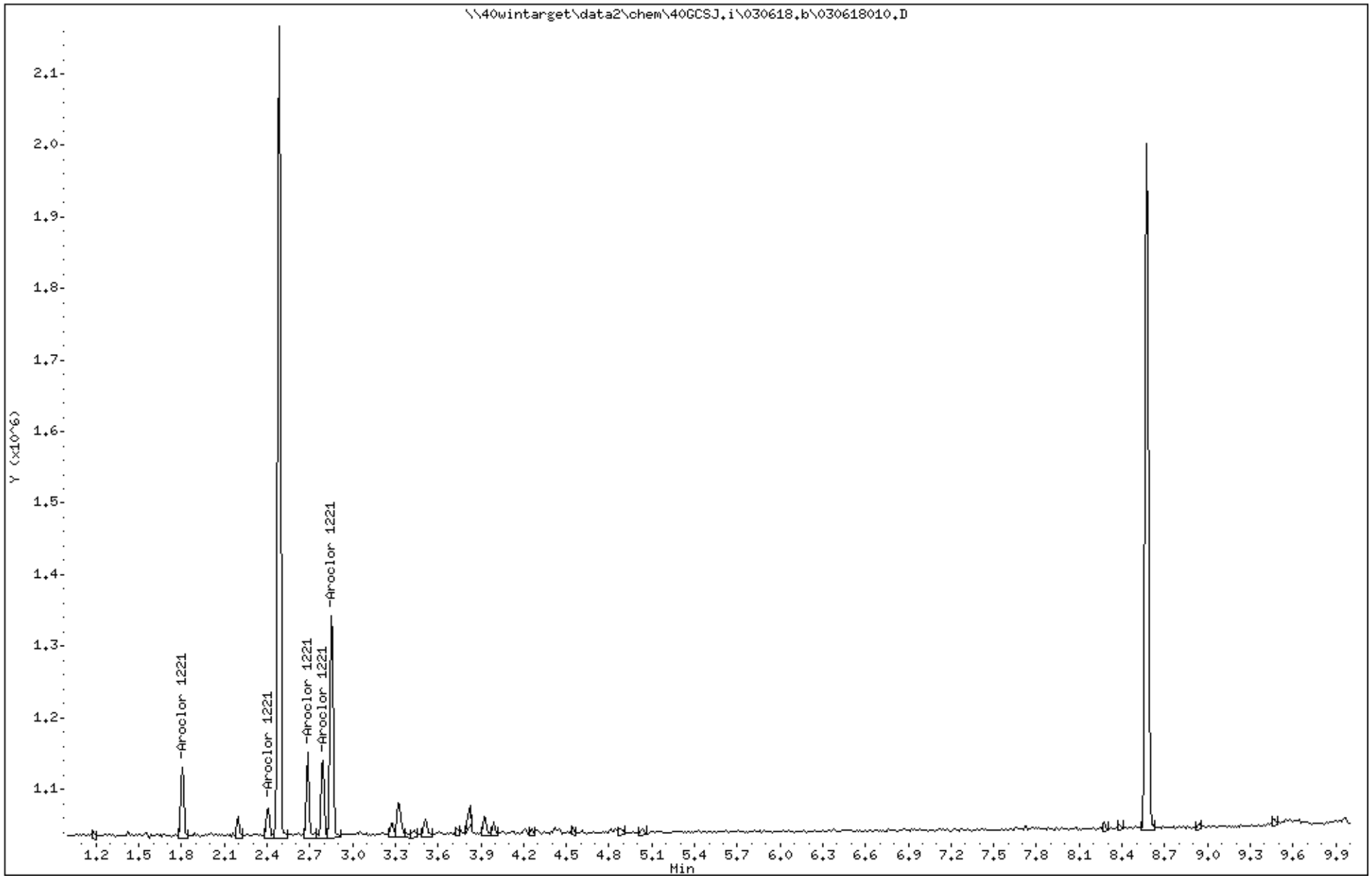
M - Compound response manually integrated.

Review Codes Legend

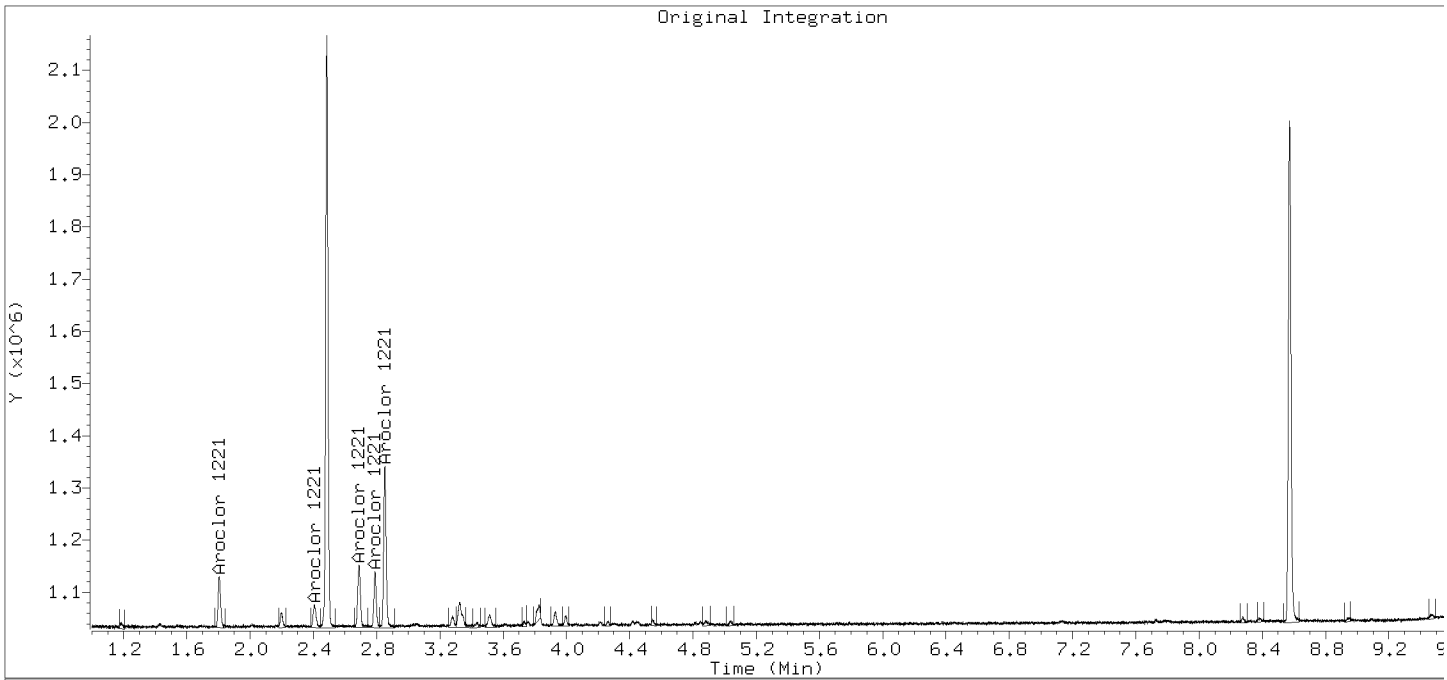
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

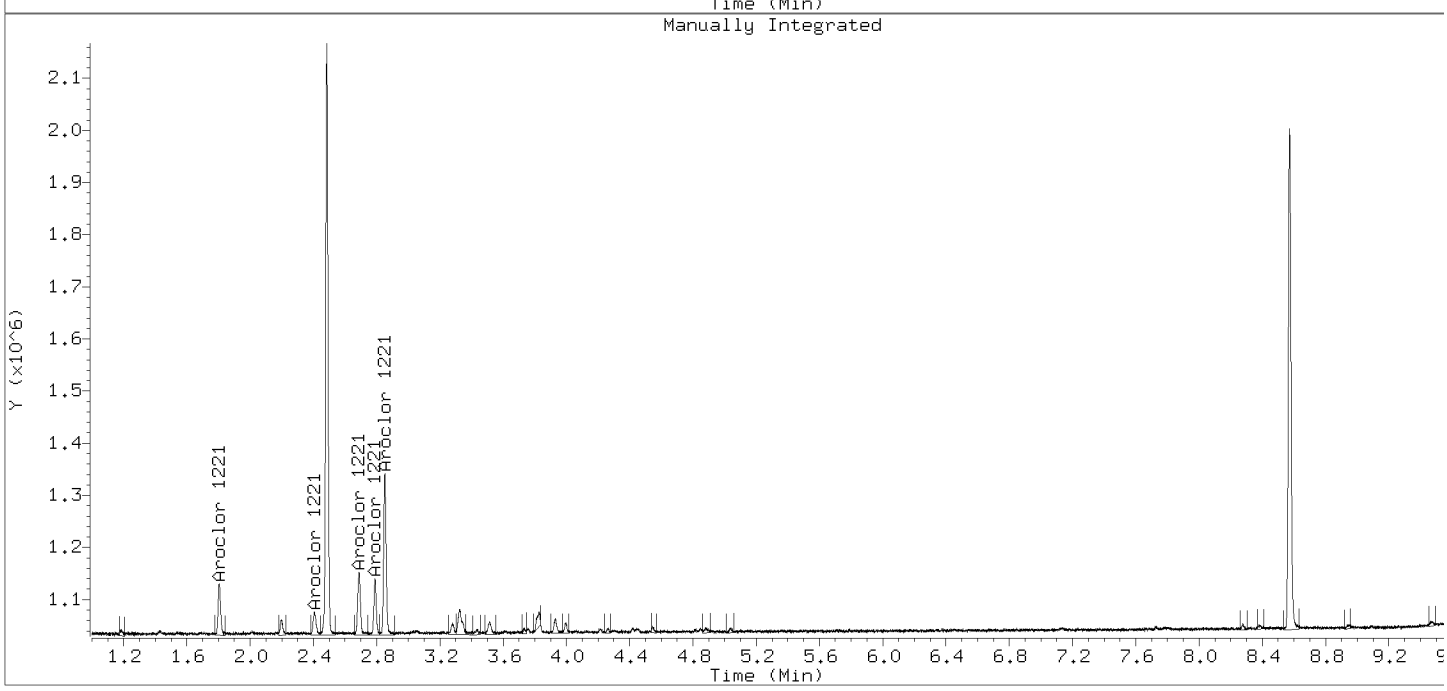
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

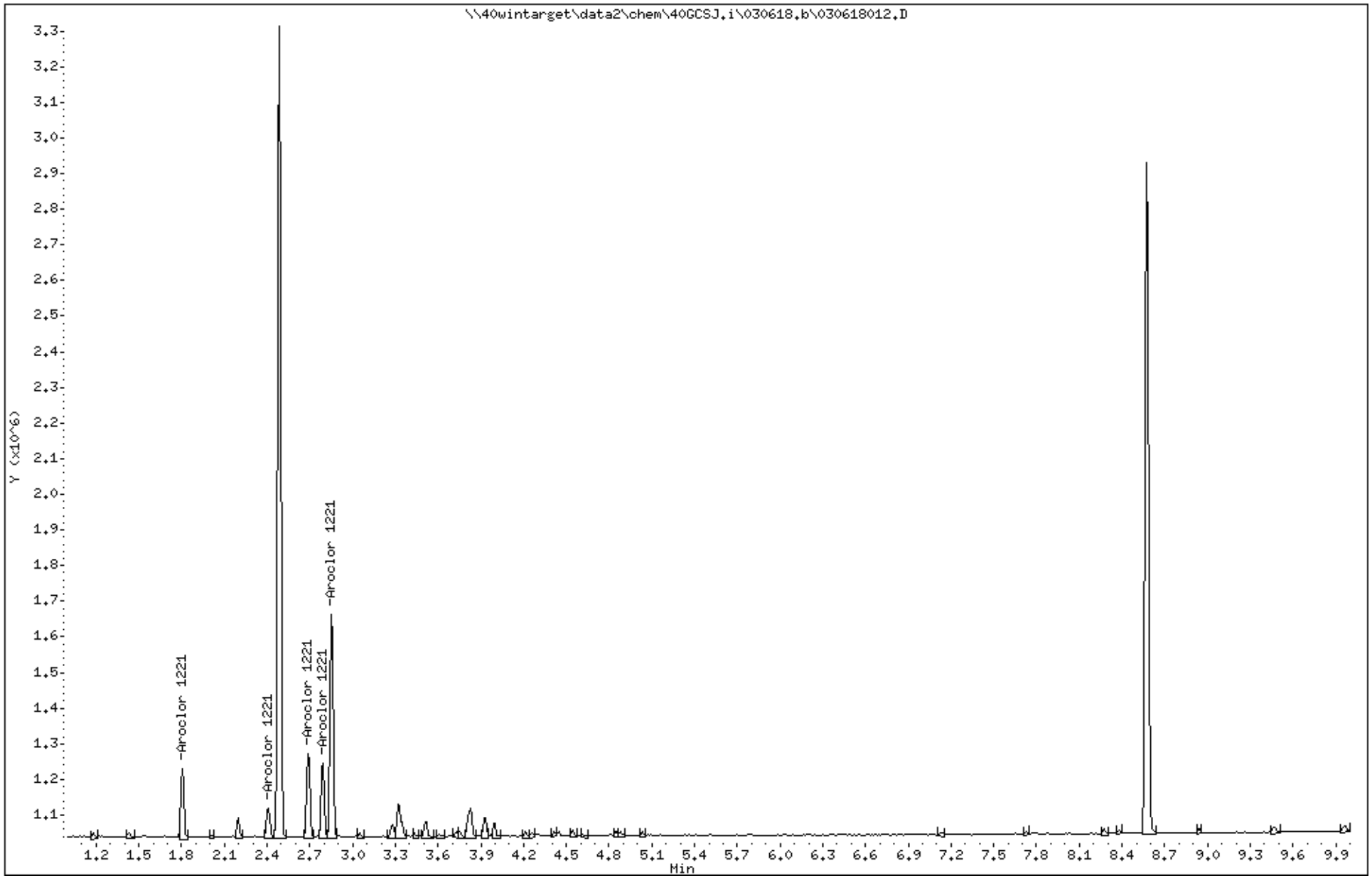
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

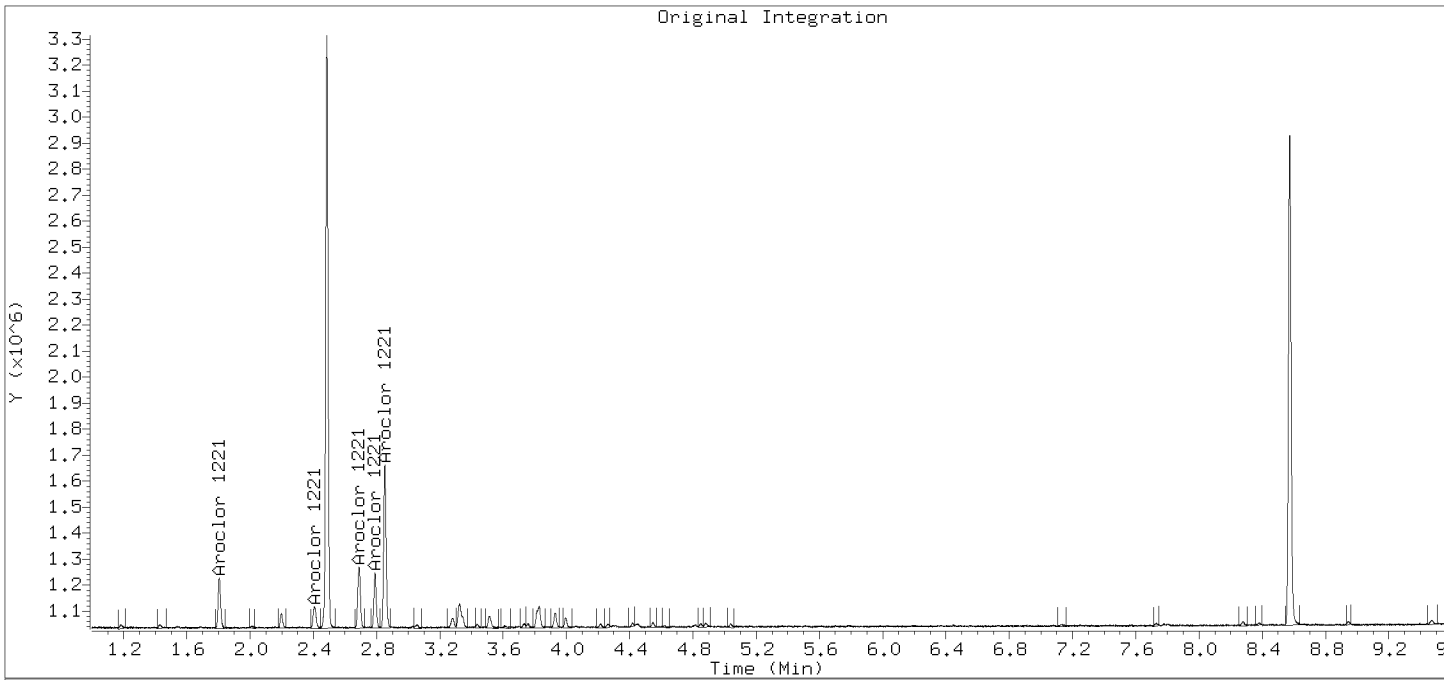
Operator: BLM

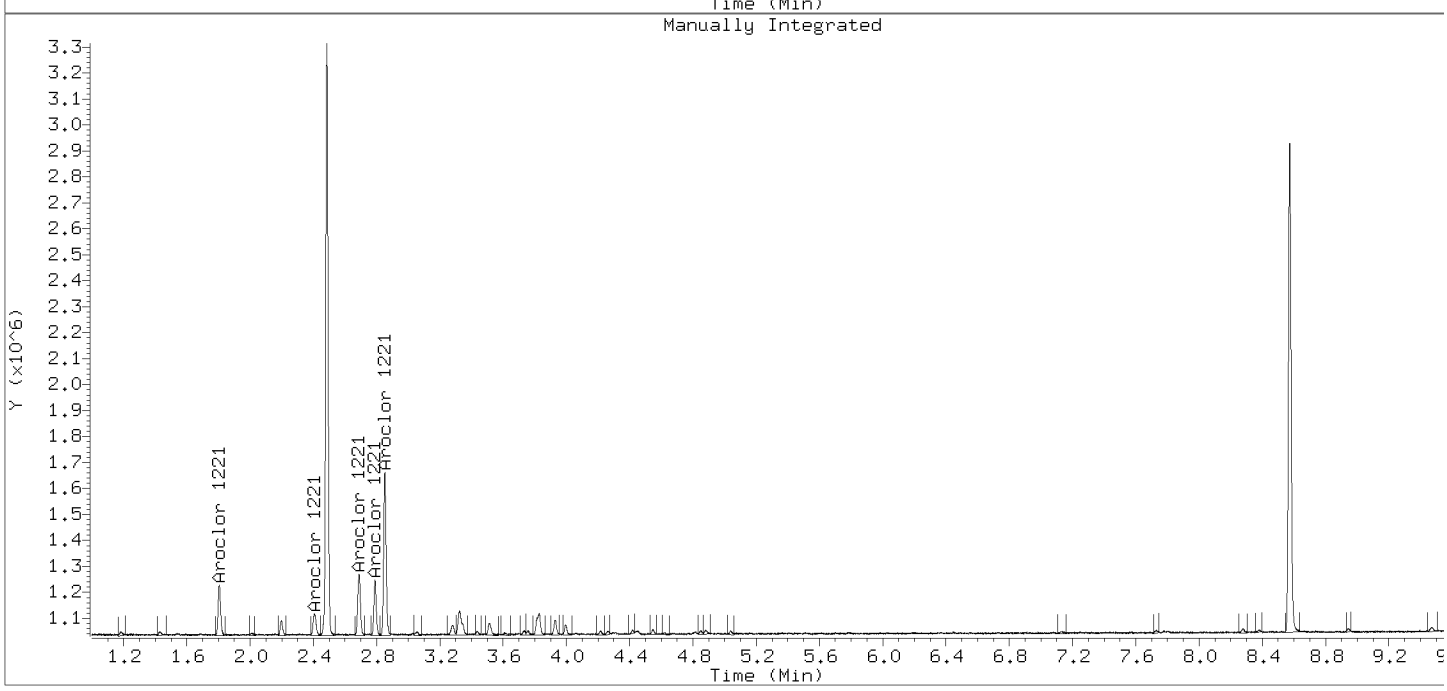
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

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

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

QC Flag Legend

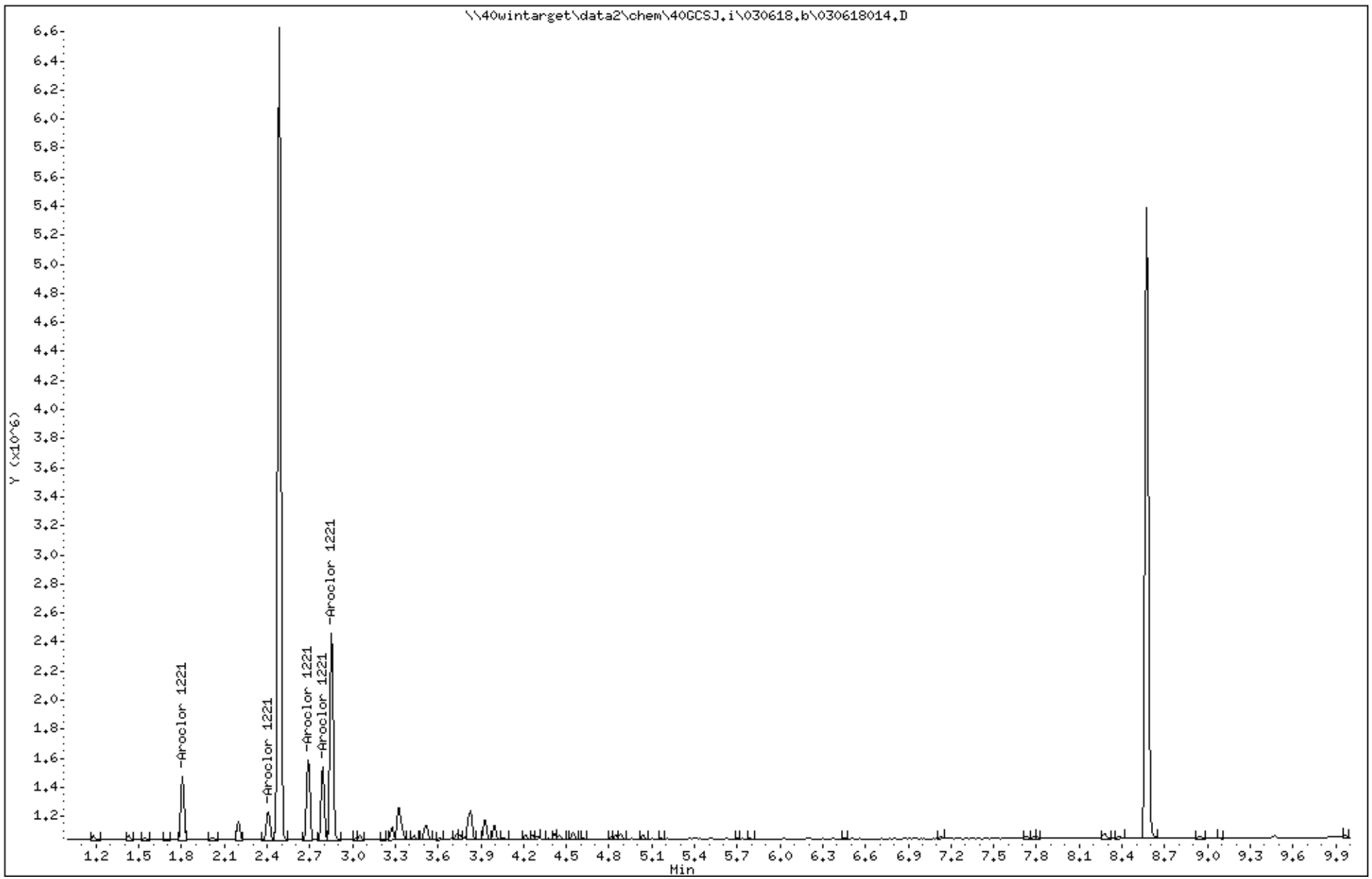
M - Compound response manually integrated.

Review Codes Legend

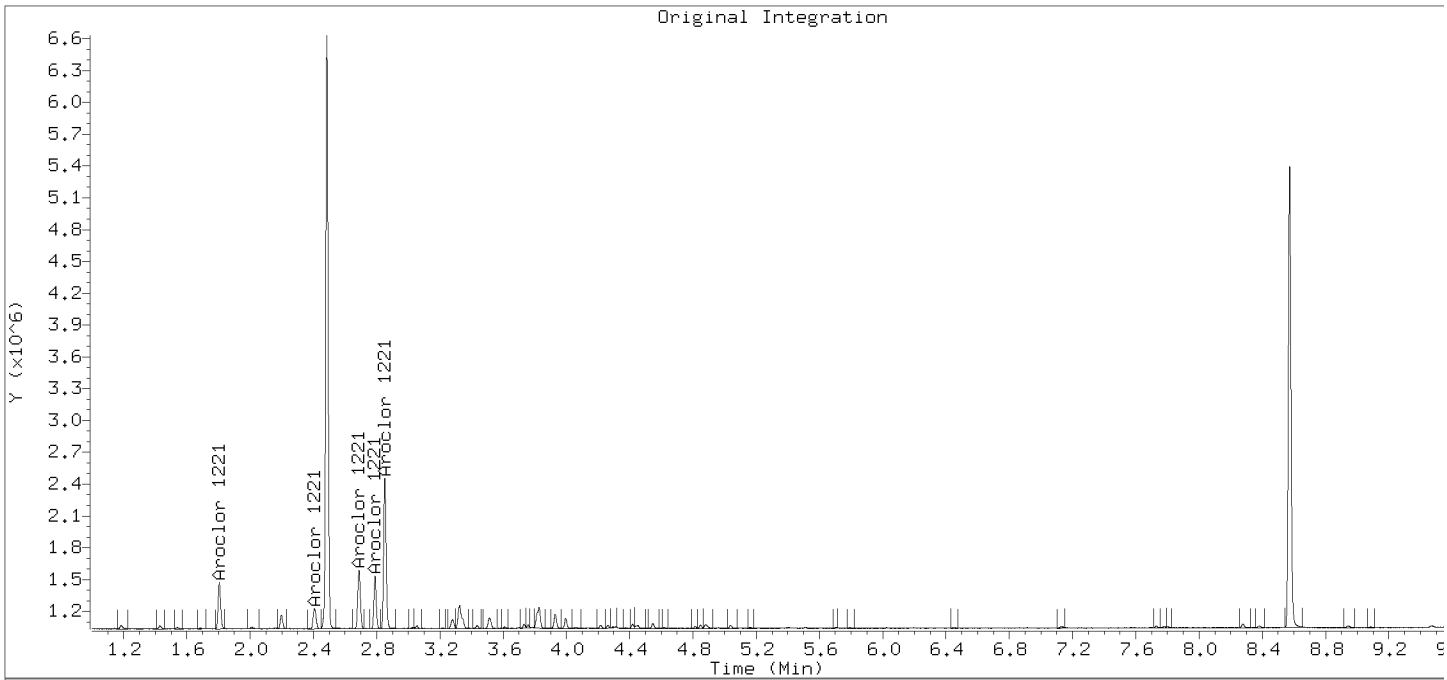
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

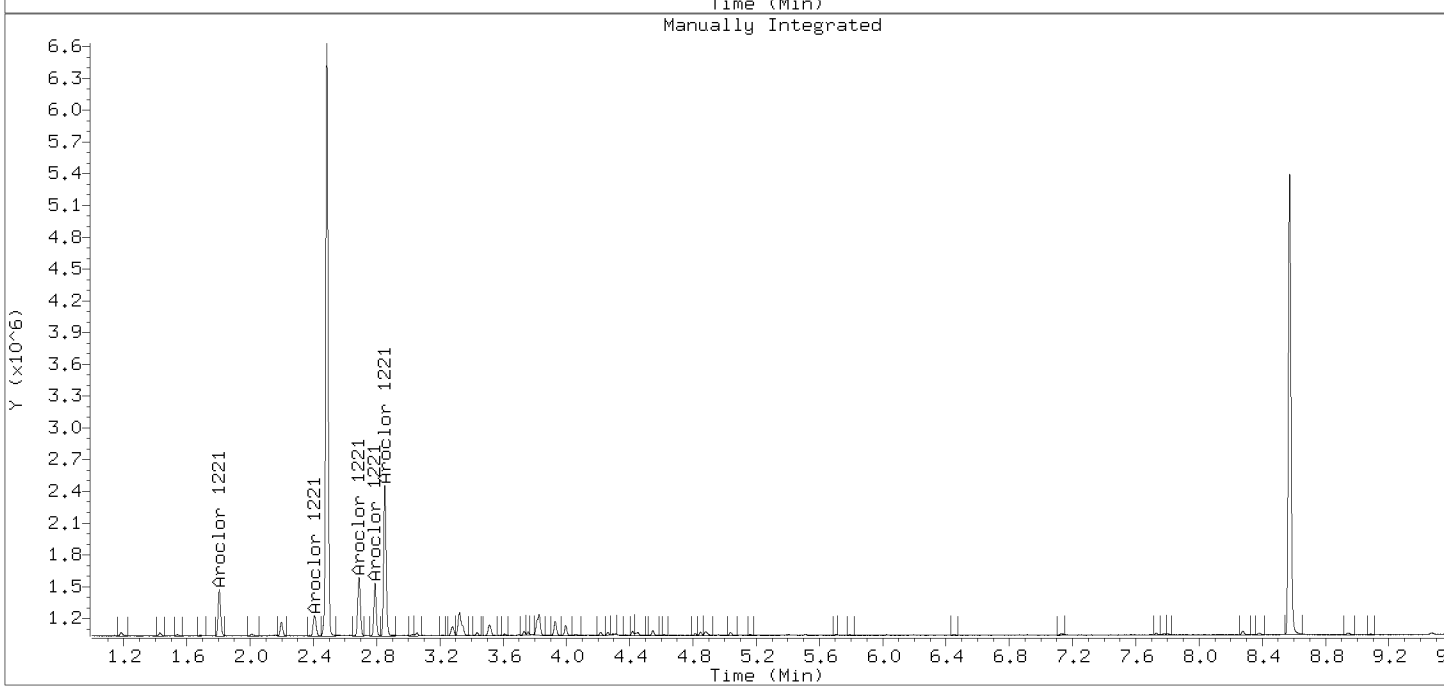
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

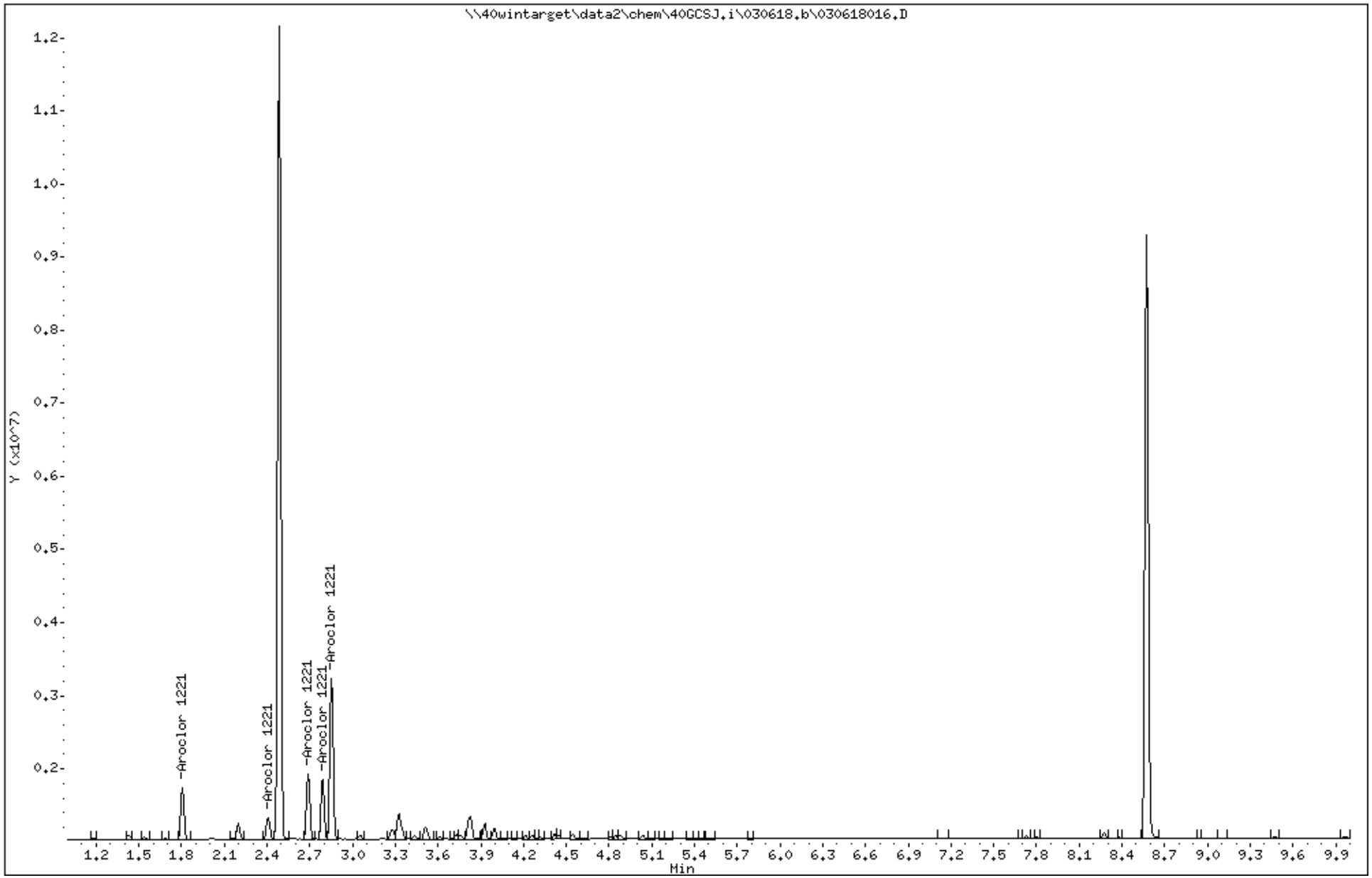
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

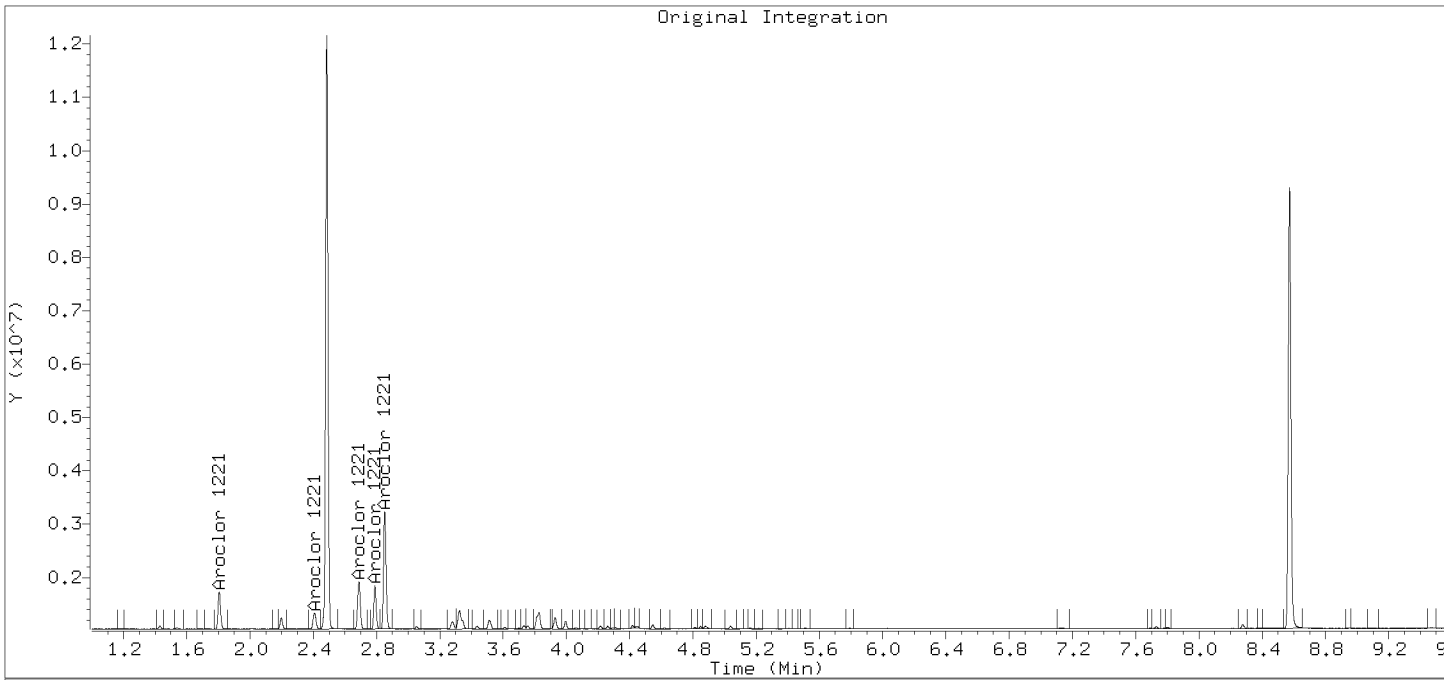
Operator: BLM

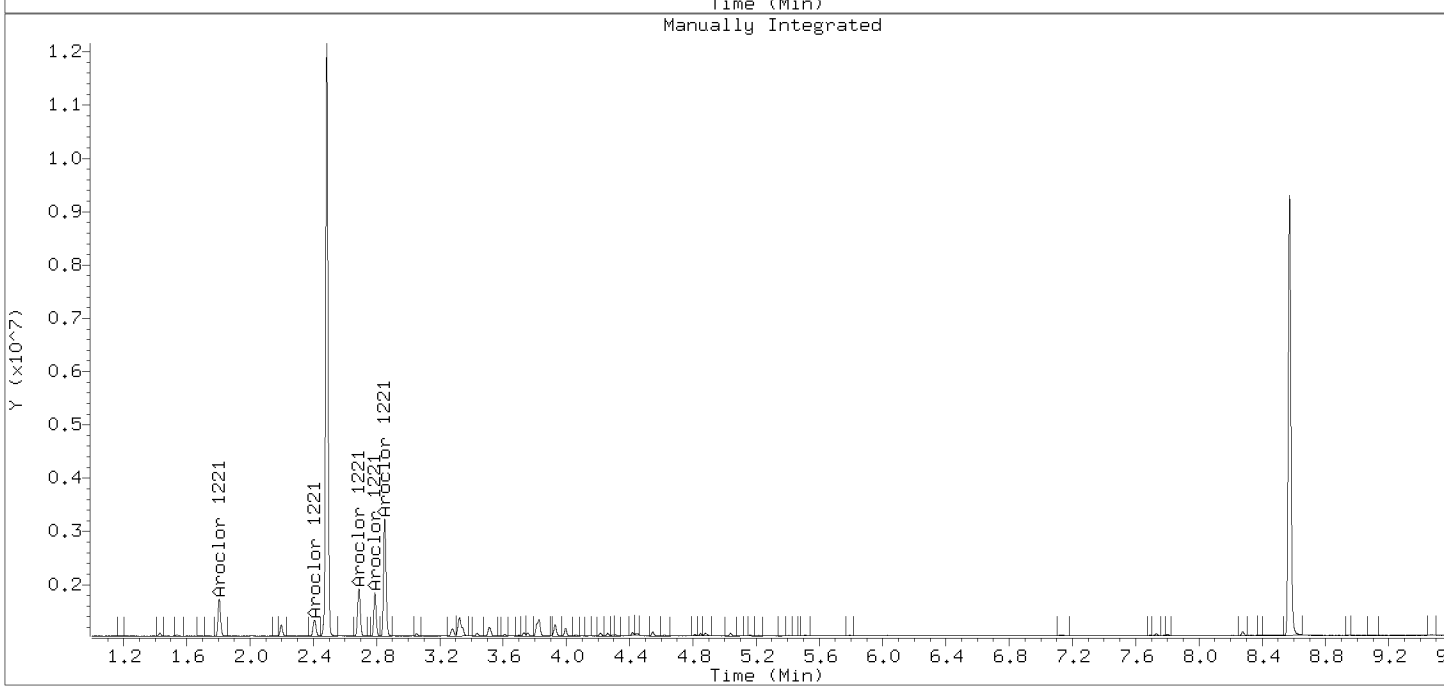
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

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

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

QC Flag Legend

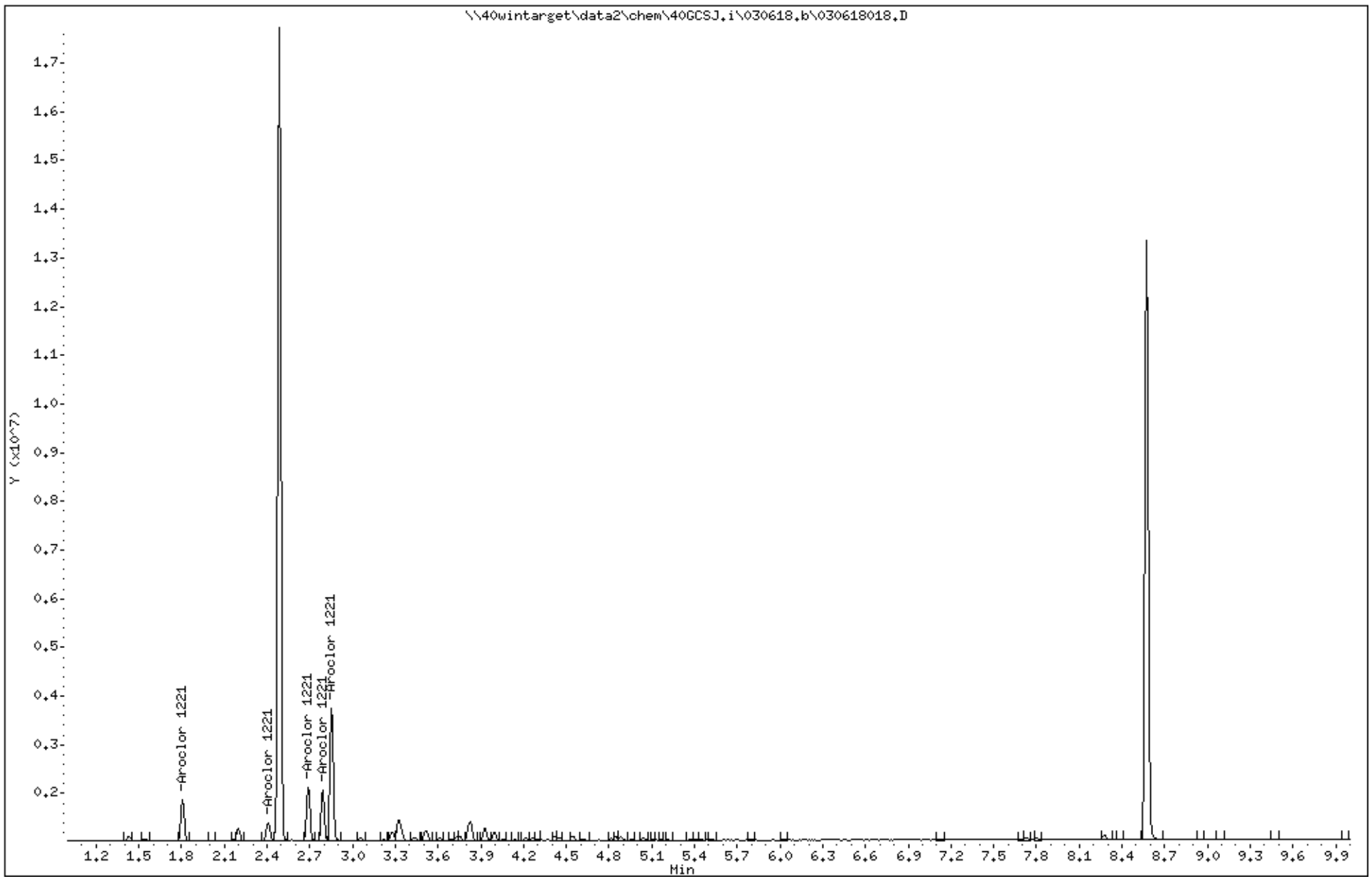
M - Compound response manually integrated.

Review Codes Legend

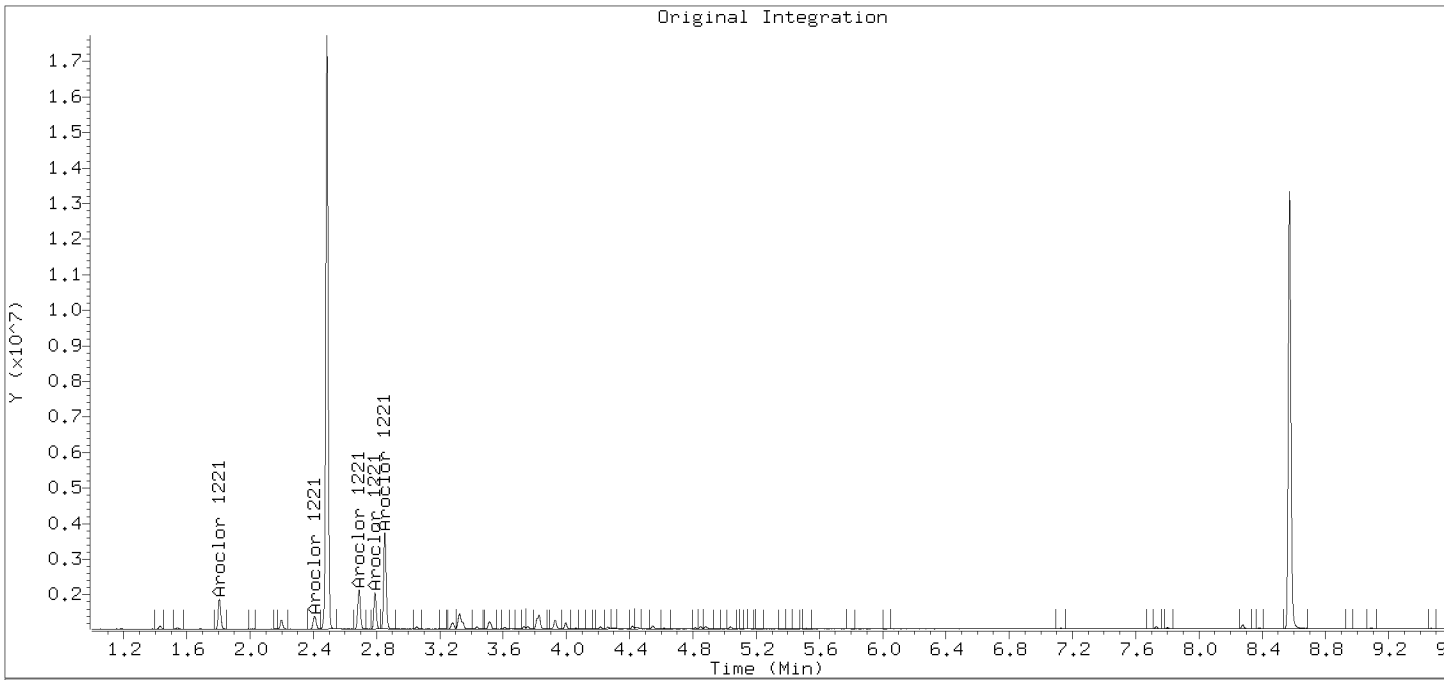
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

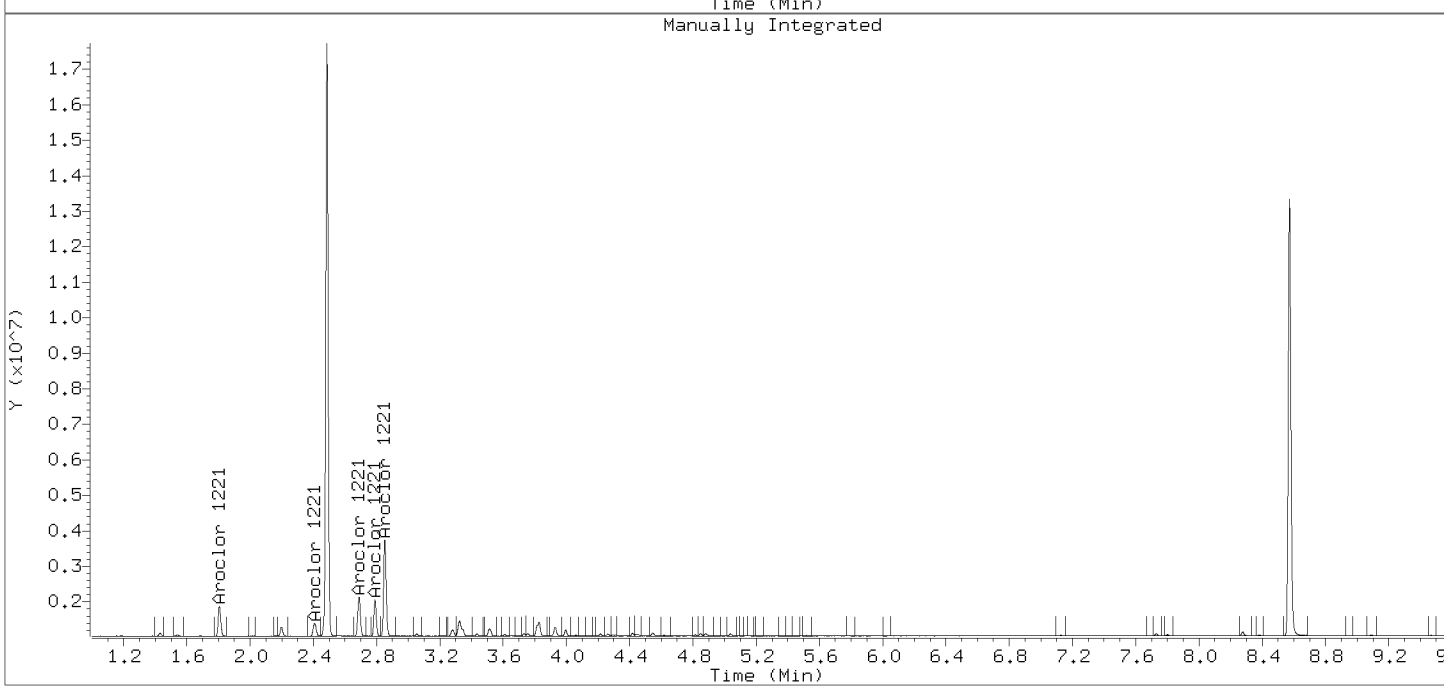
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

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.

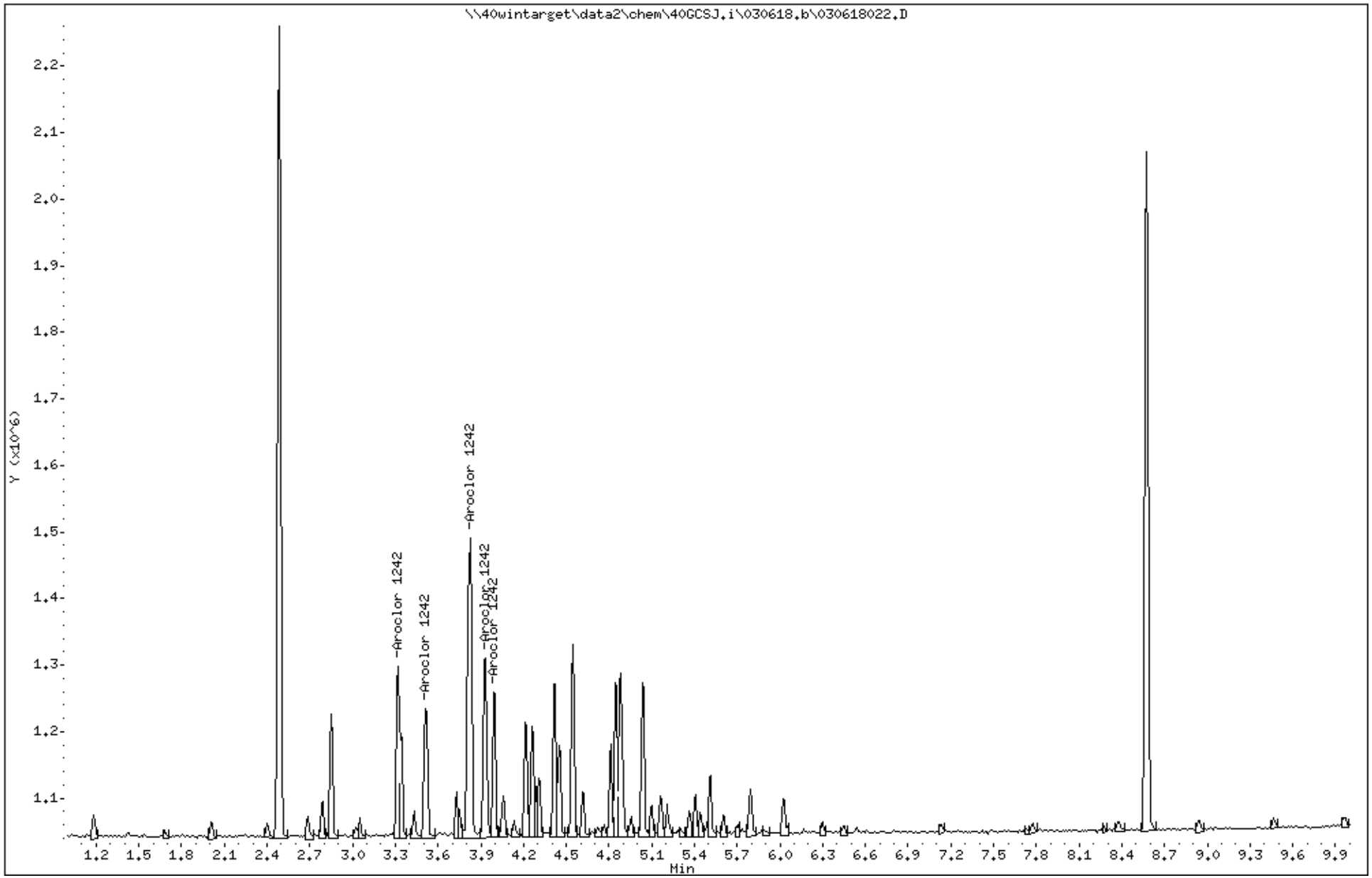
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

Instrument: 40GCSJ.i

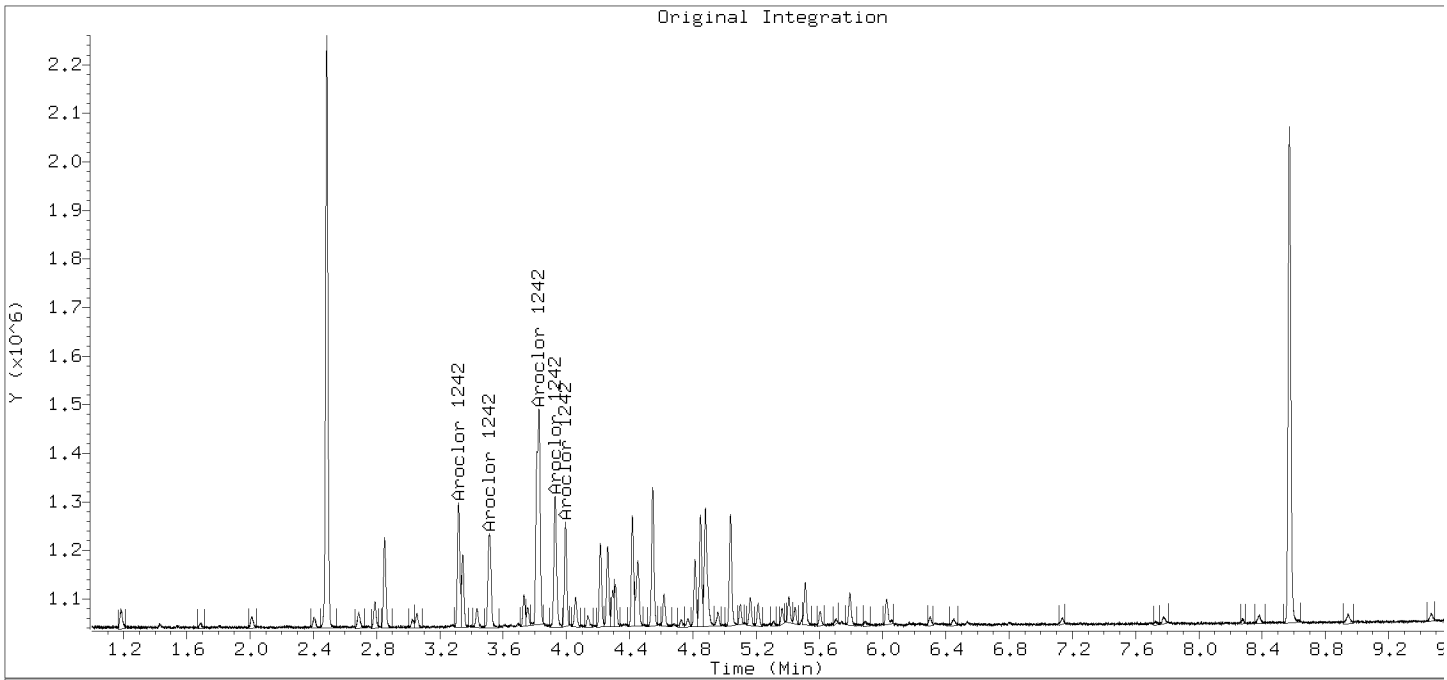
Operator: BLM

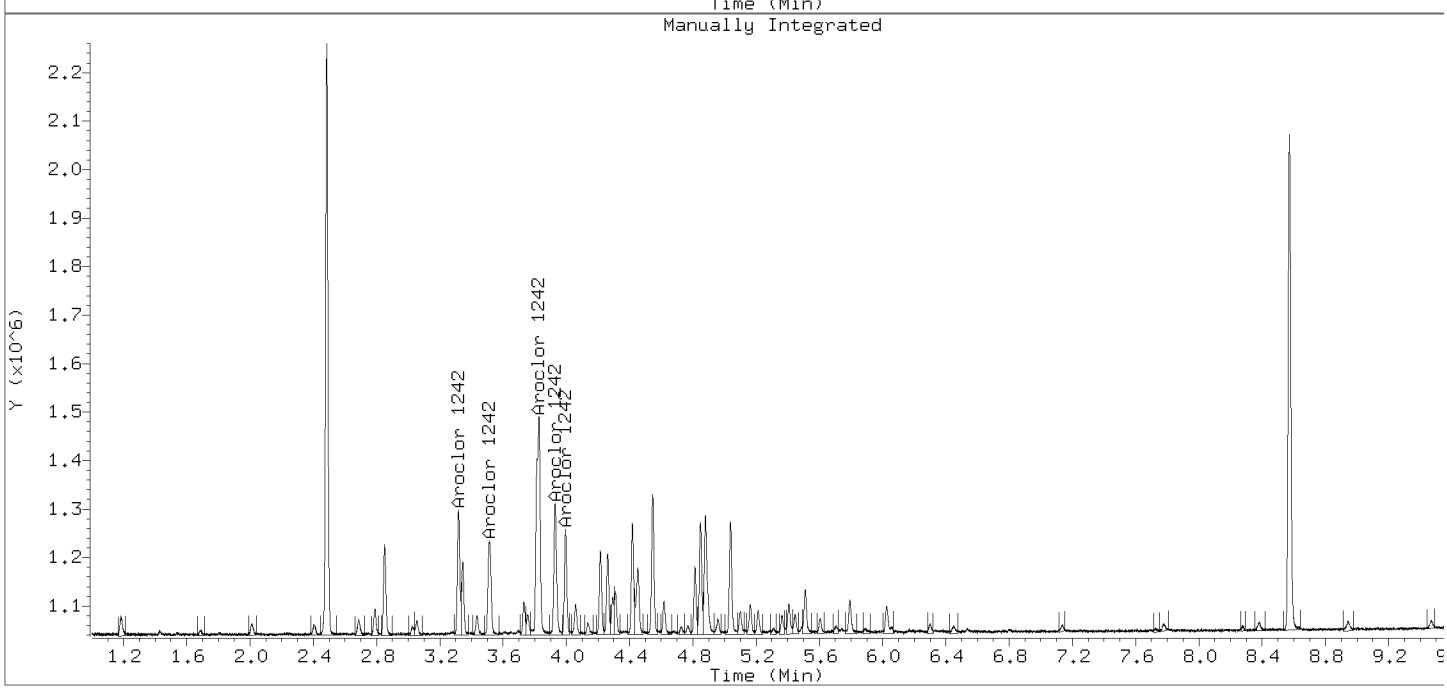
Column phase: ZB-1ms

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

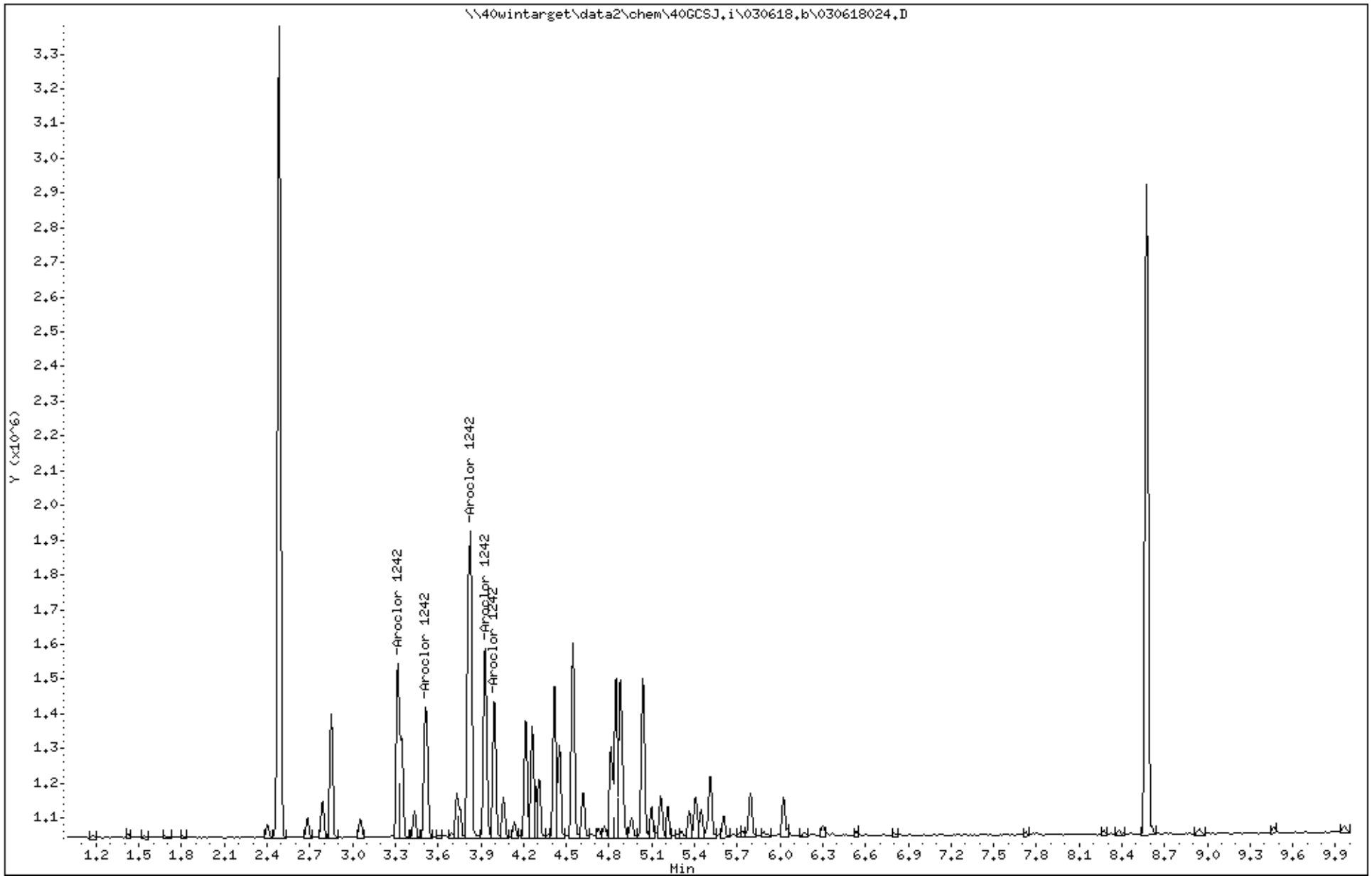
M - Compound response manually integrated.

Review Codes Legend

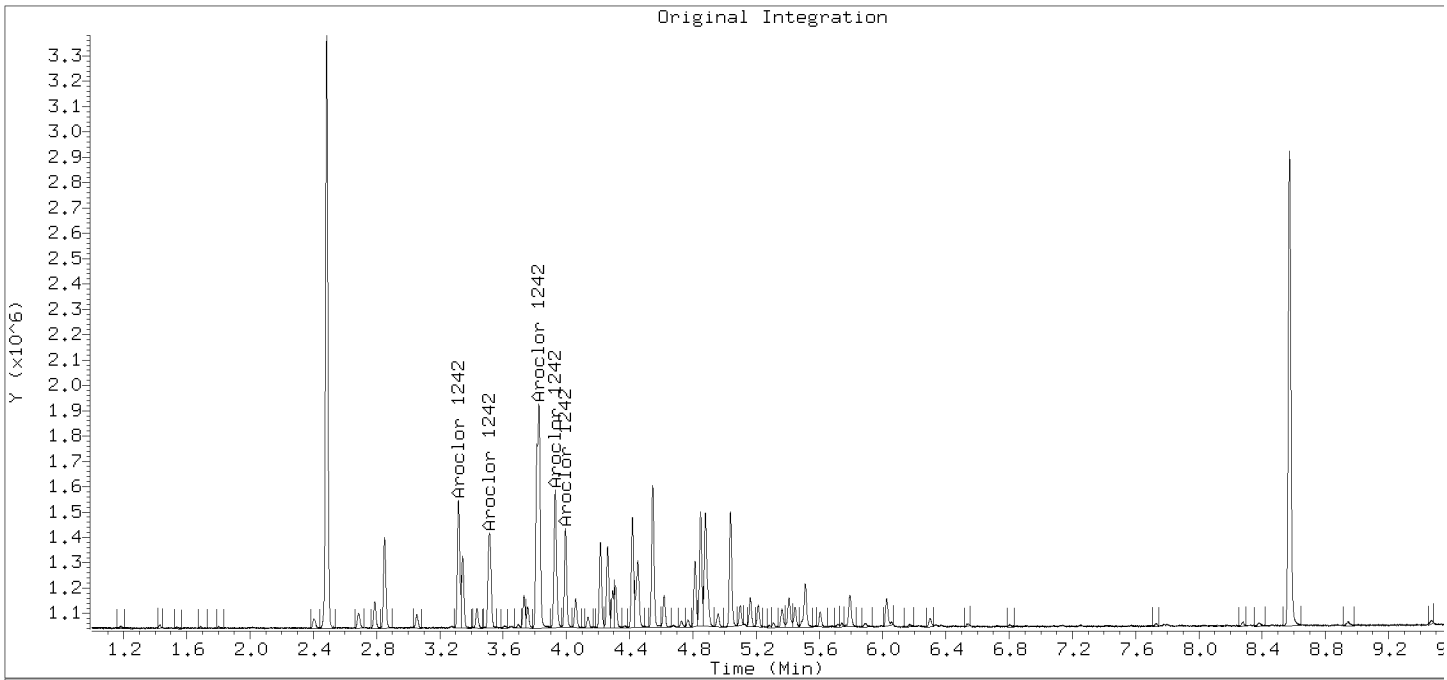
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

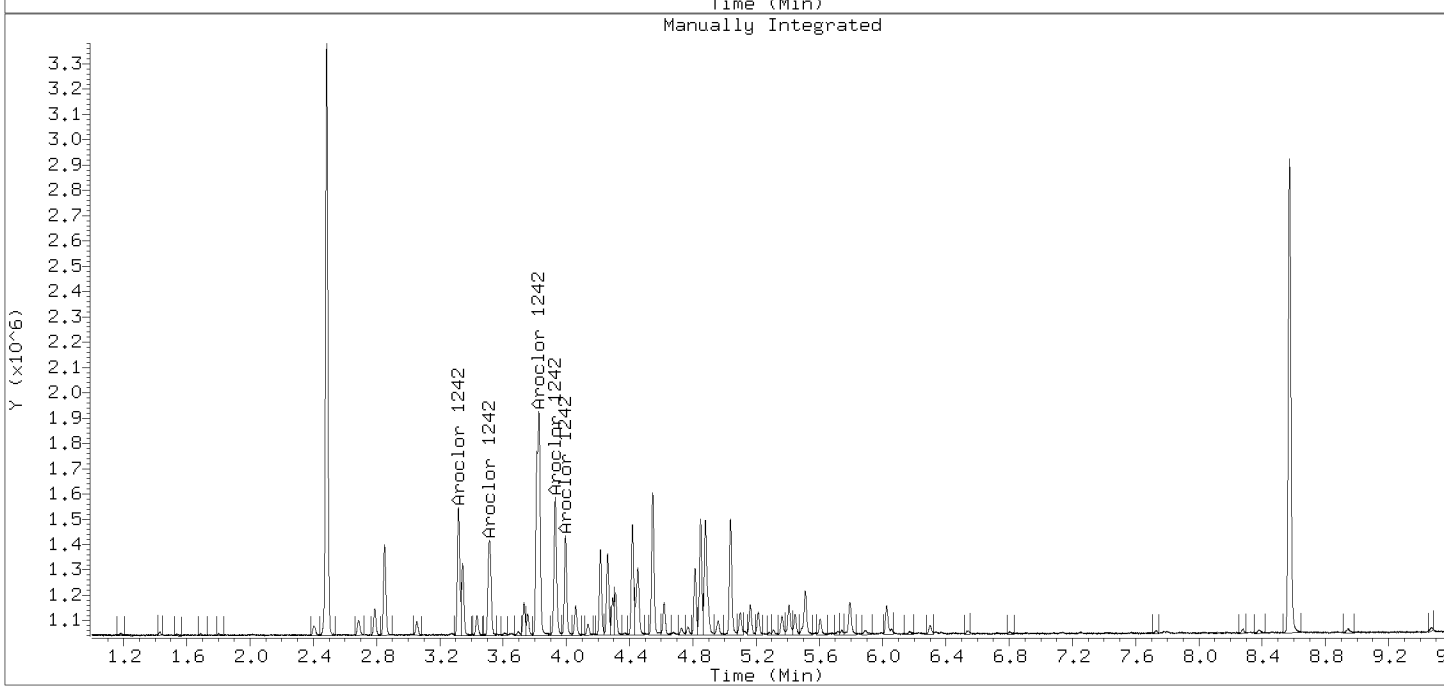
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

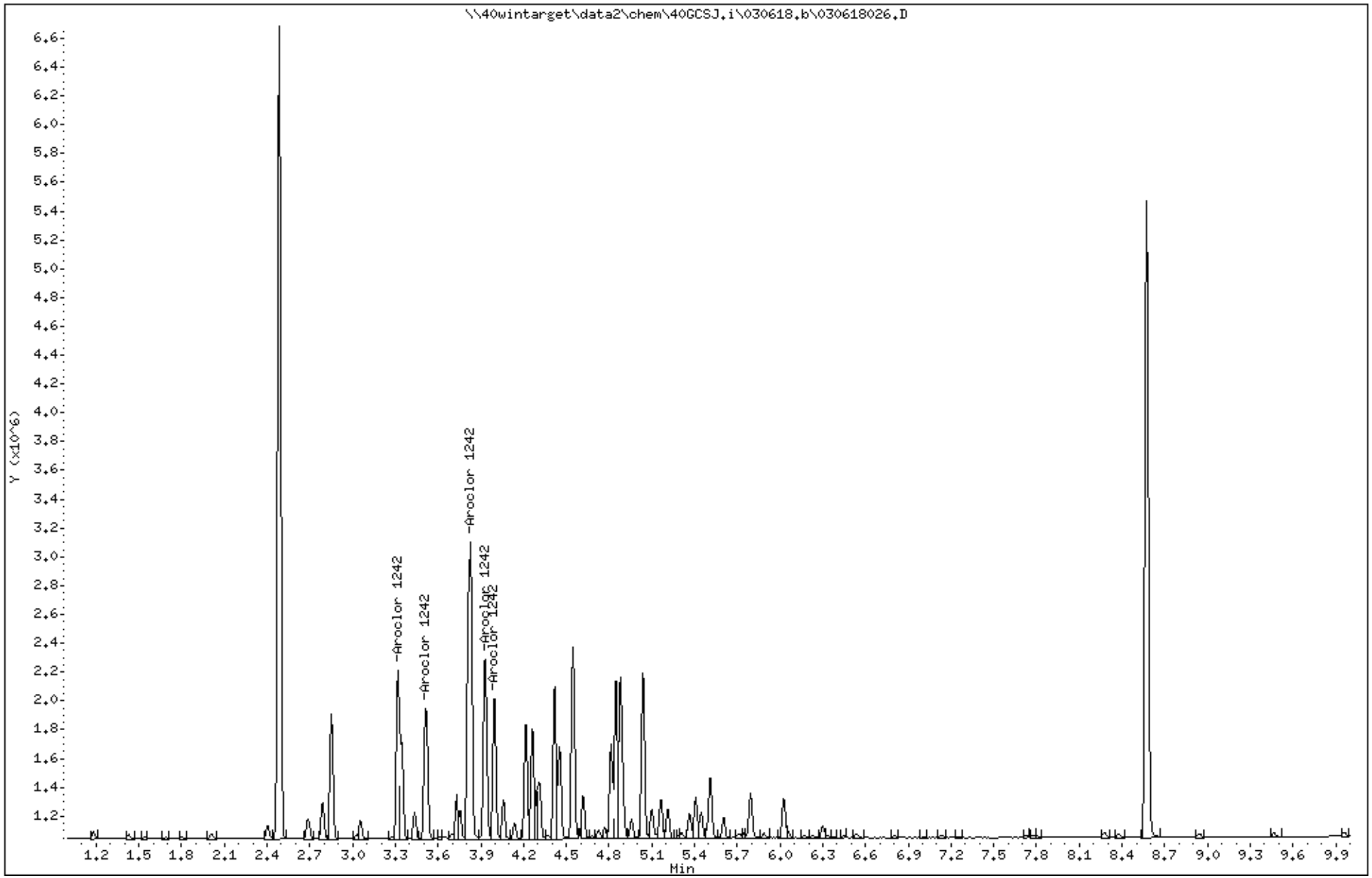
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

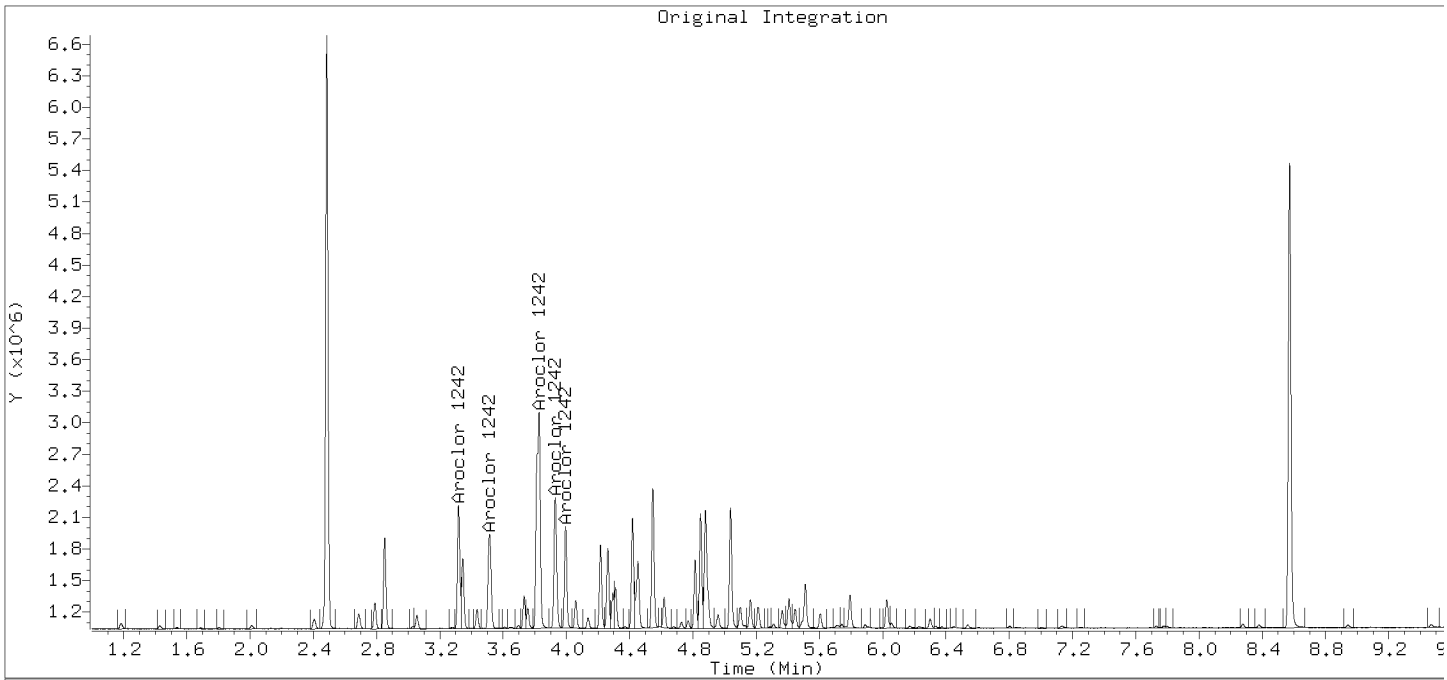
Operator: BLM

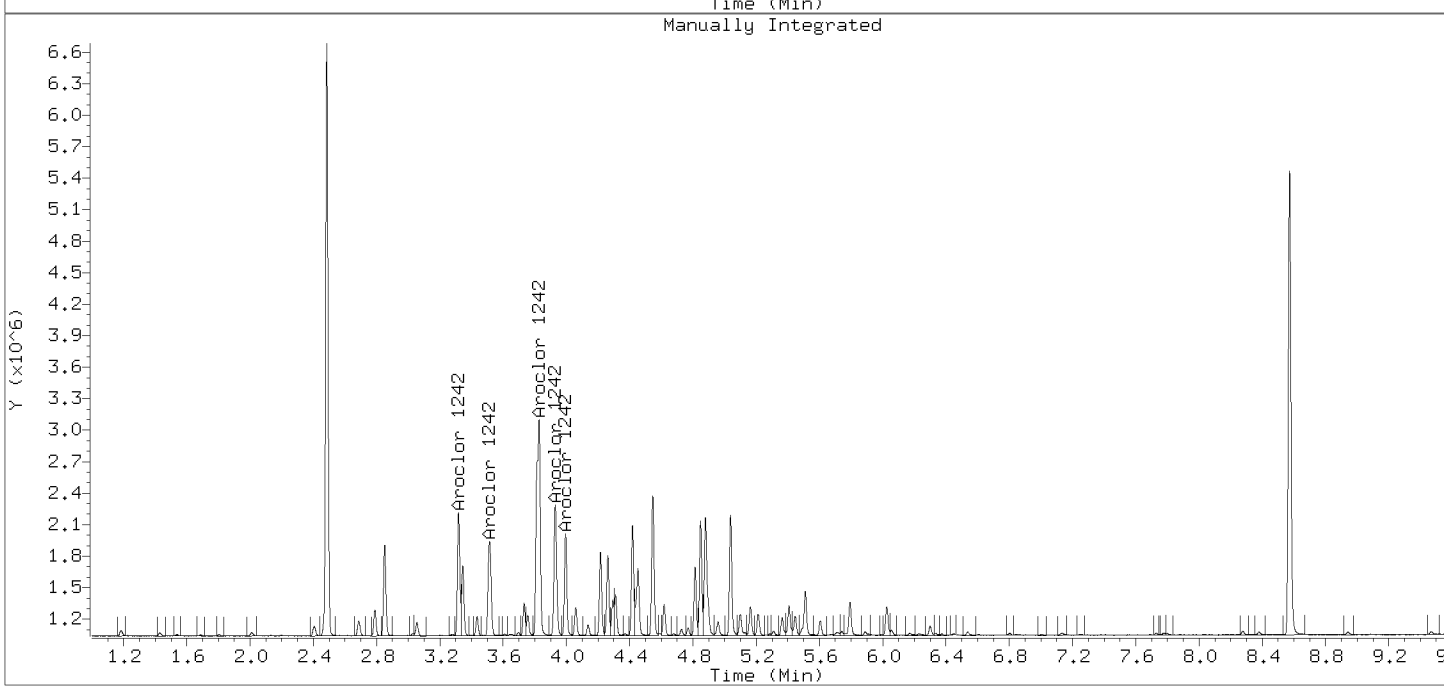
Column phase: ZB-1ms

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

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

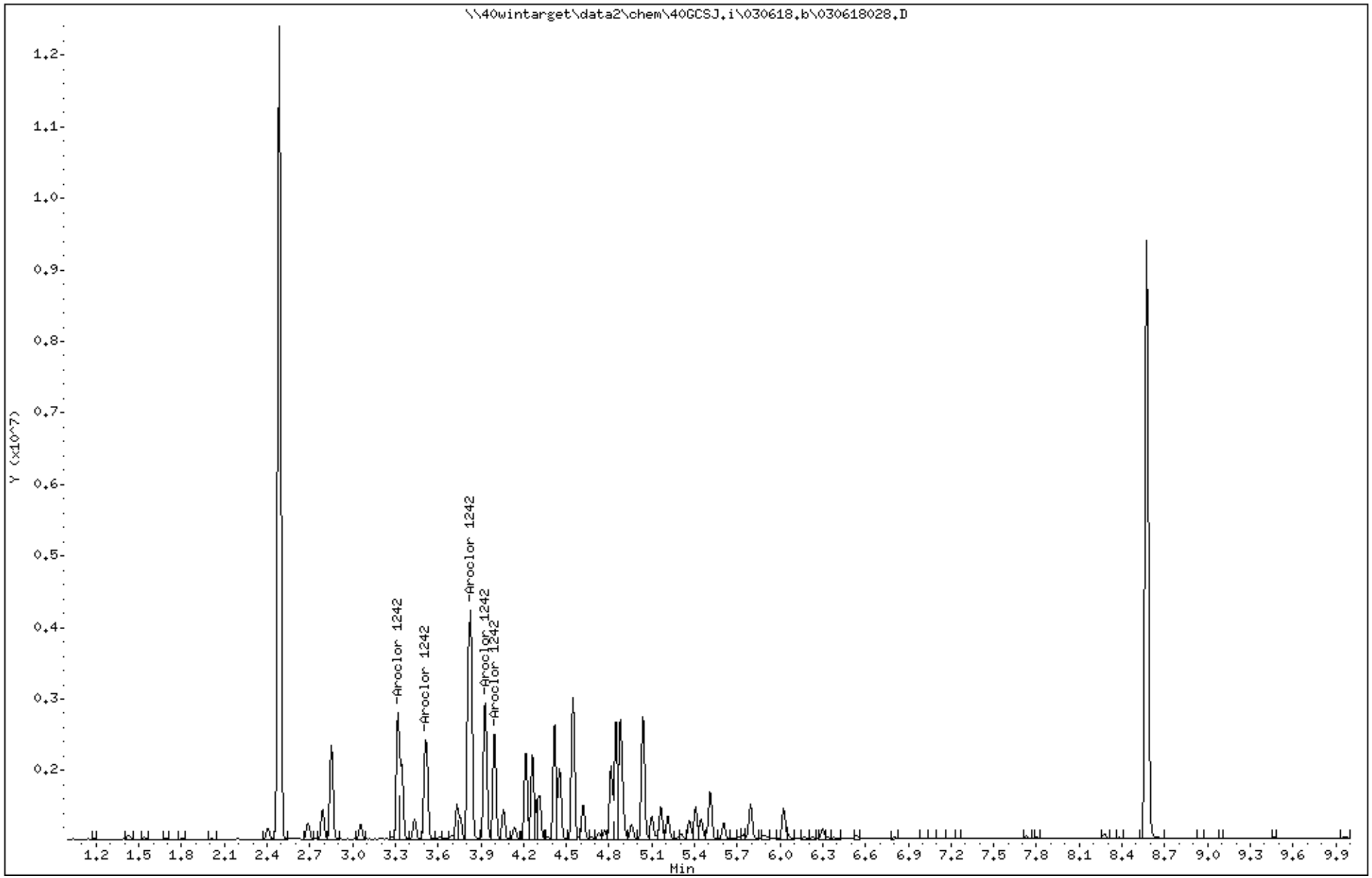
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

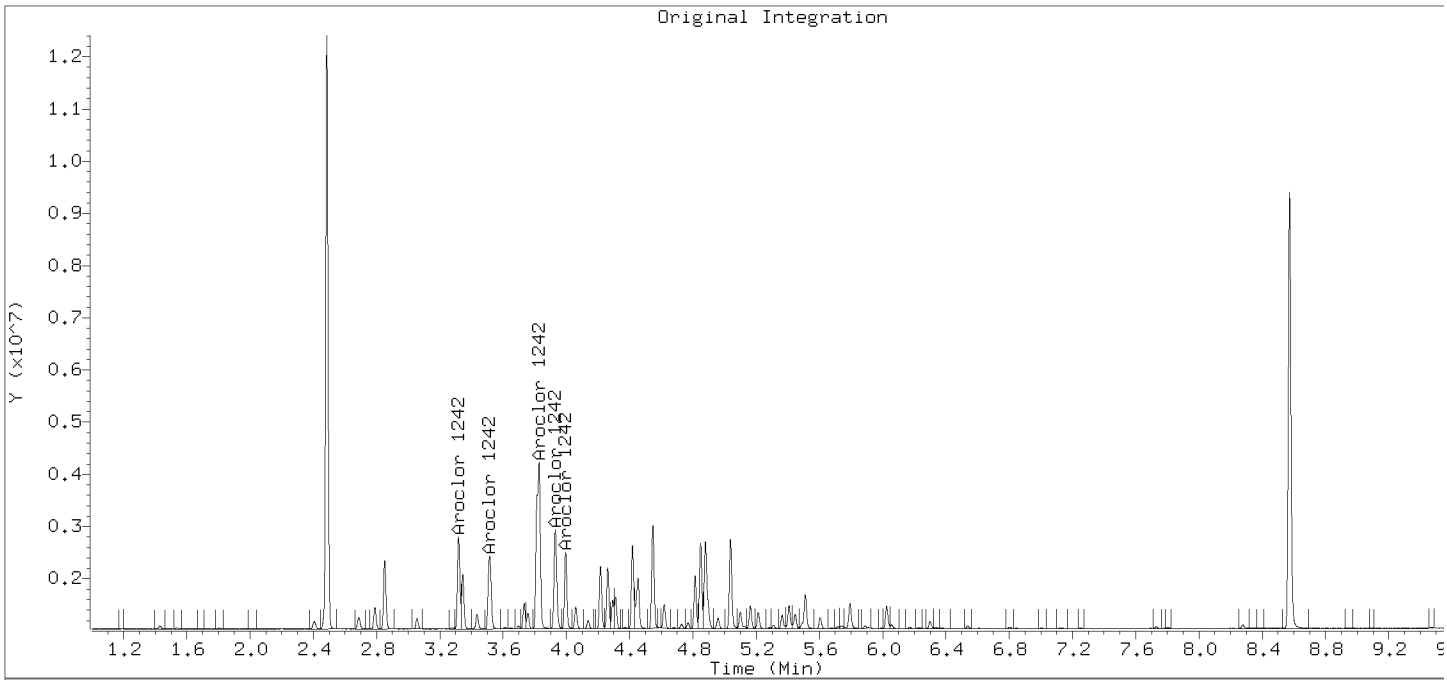
Operator: BLM

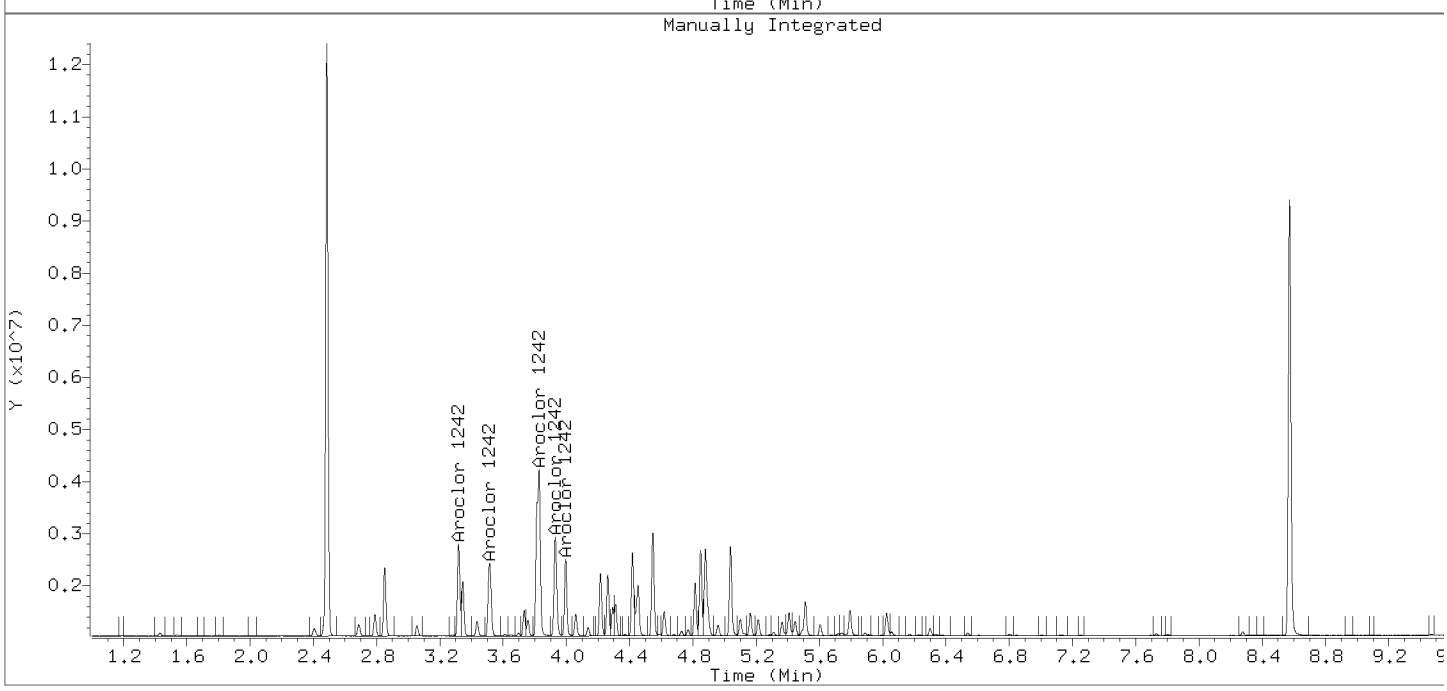
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D

Date : 06-MAR-2018 14:48

Client ID: 1242-CAL5B

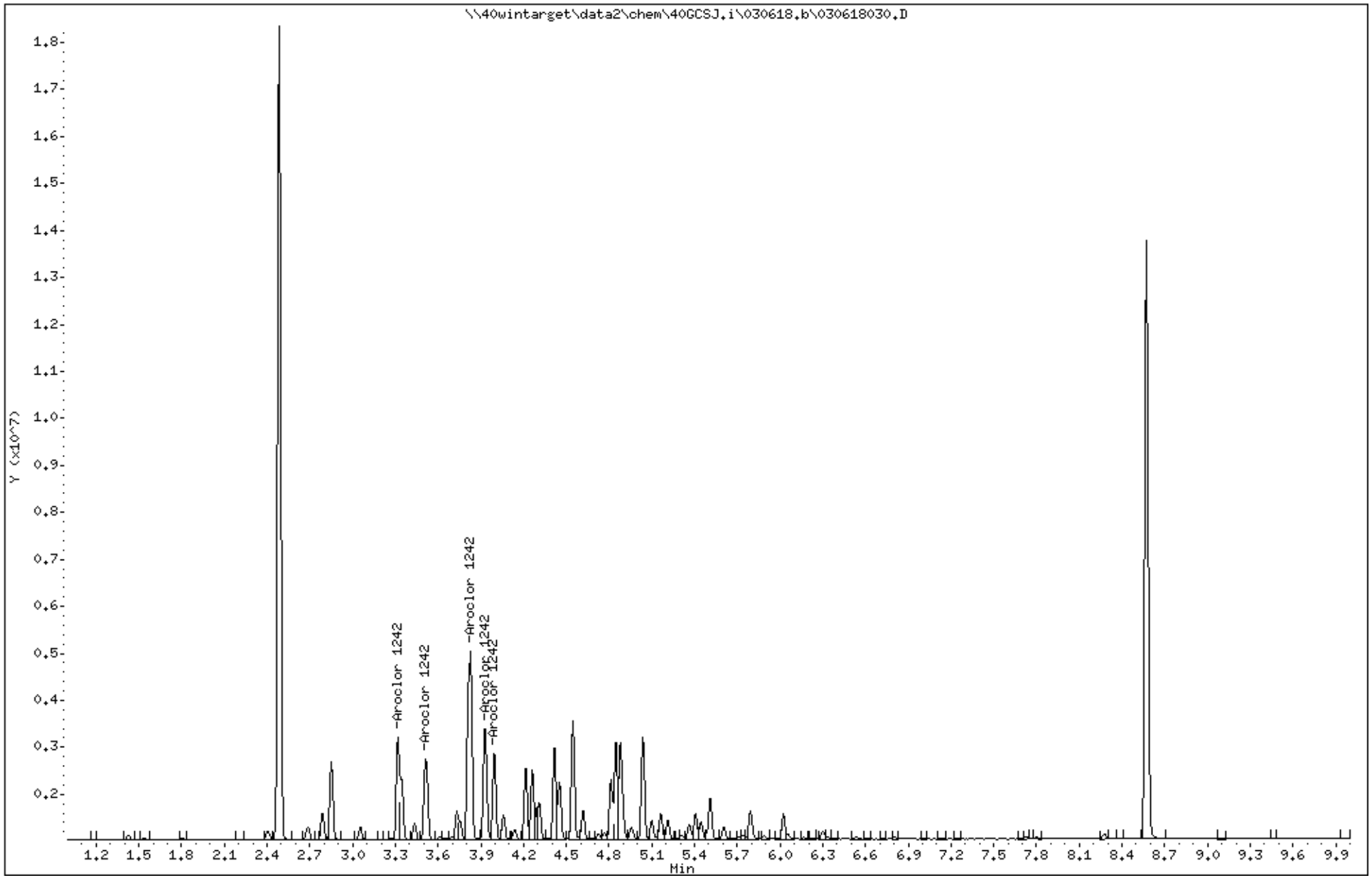
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

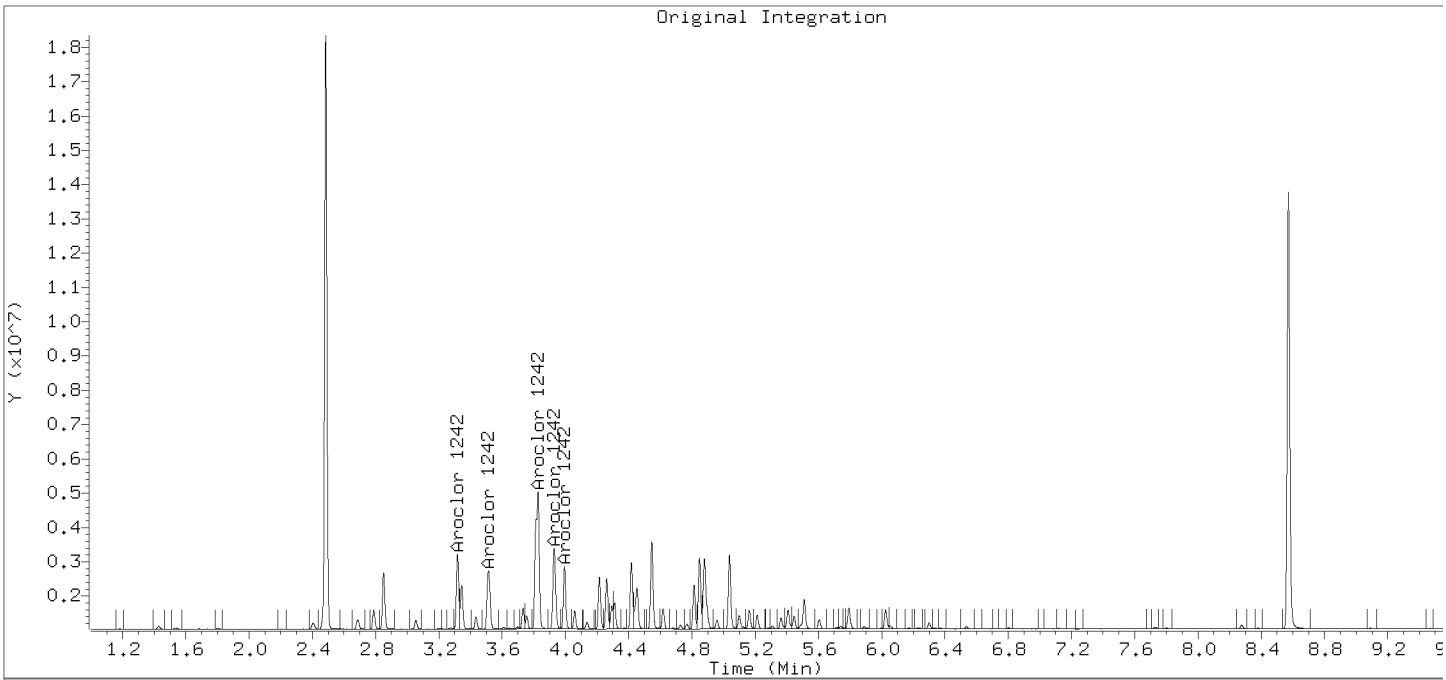
Operator: BLM

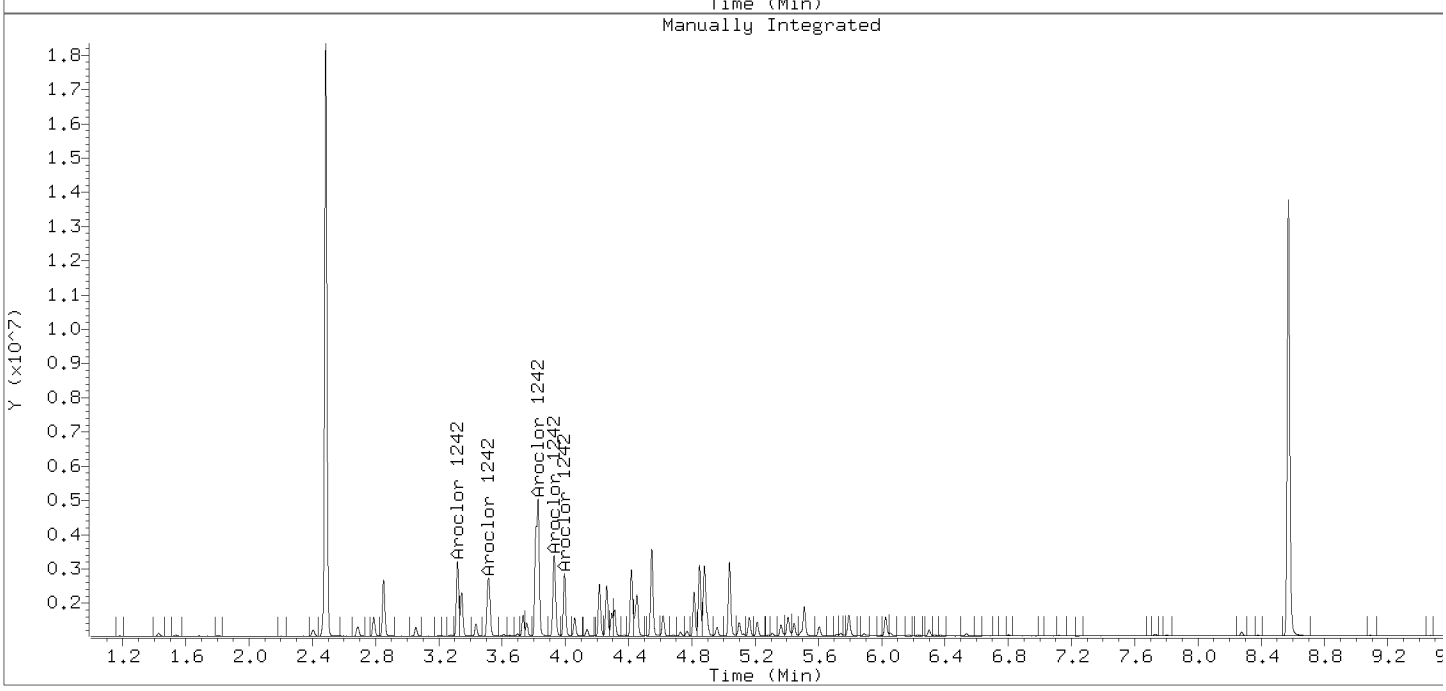
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

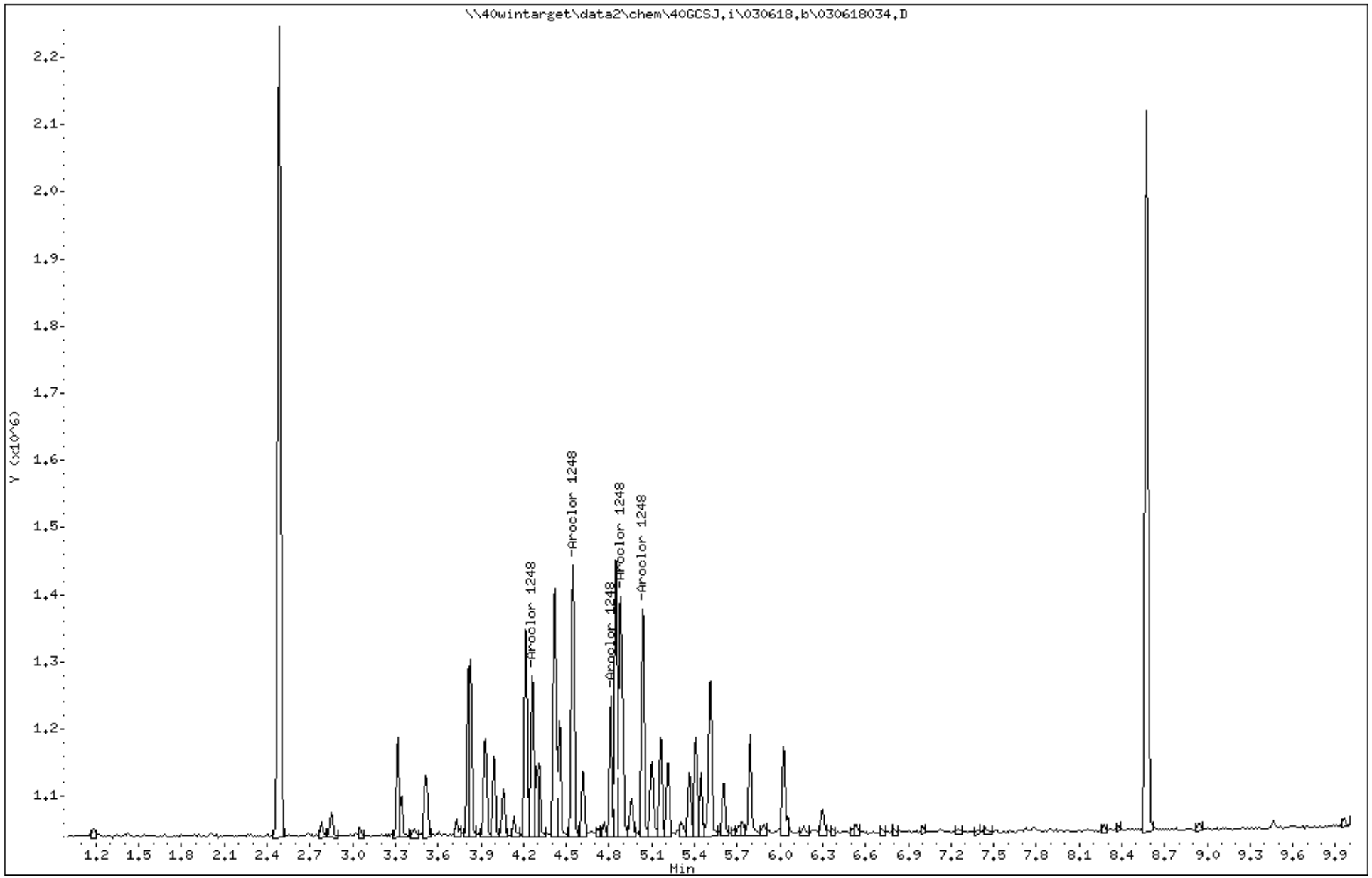
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

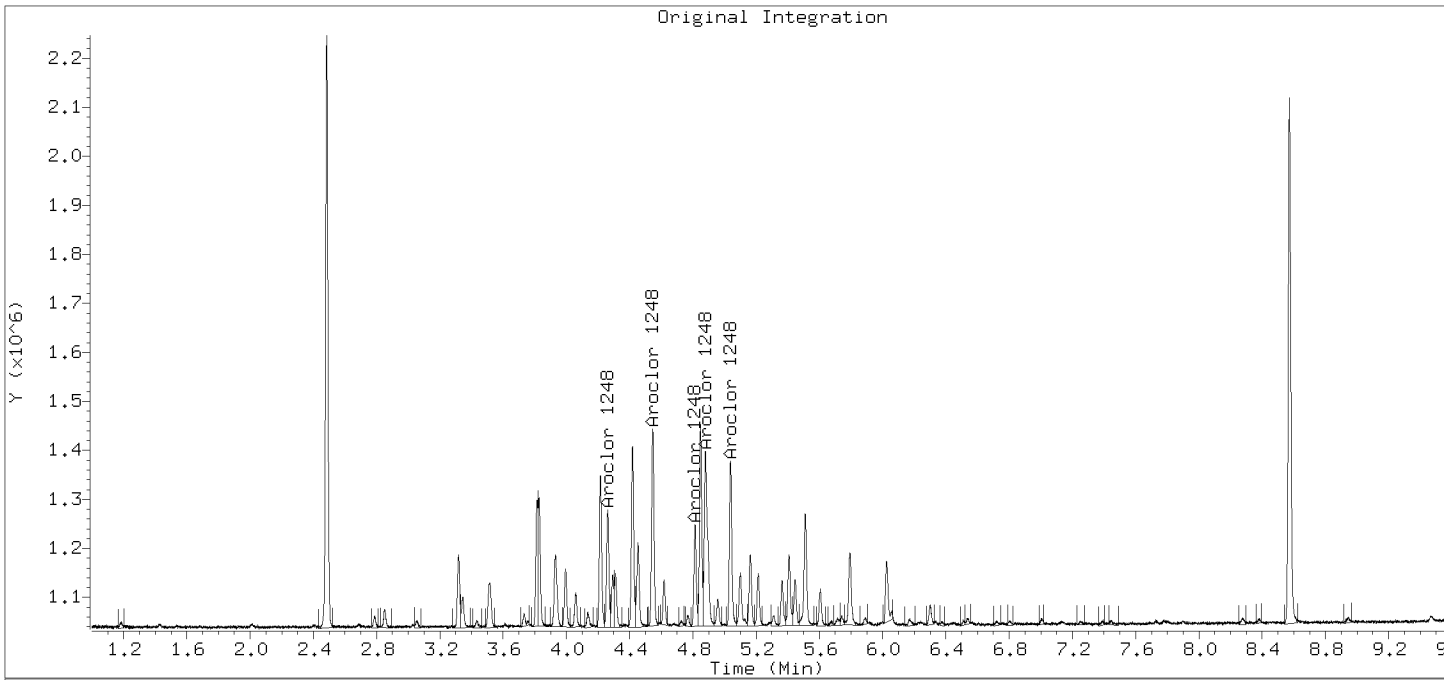
Operator: BLM

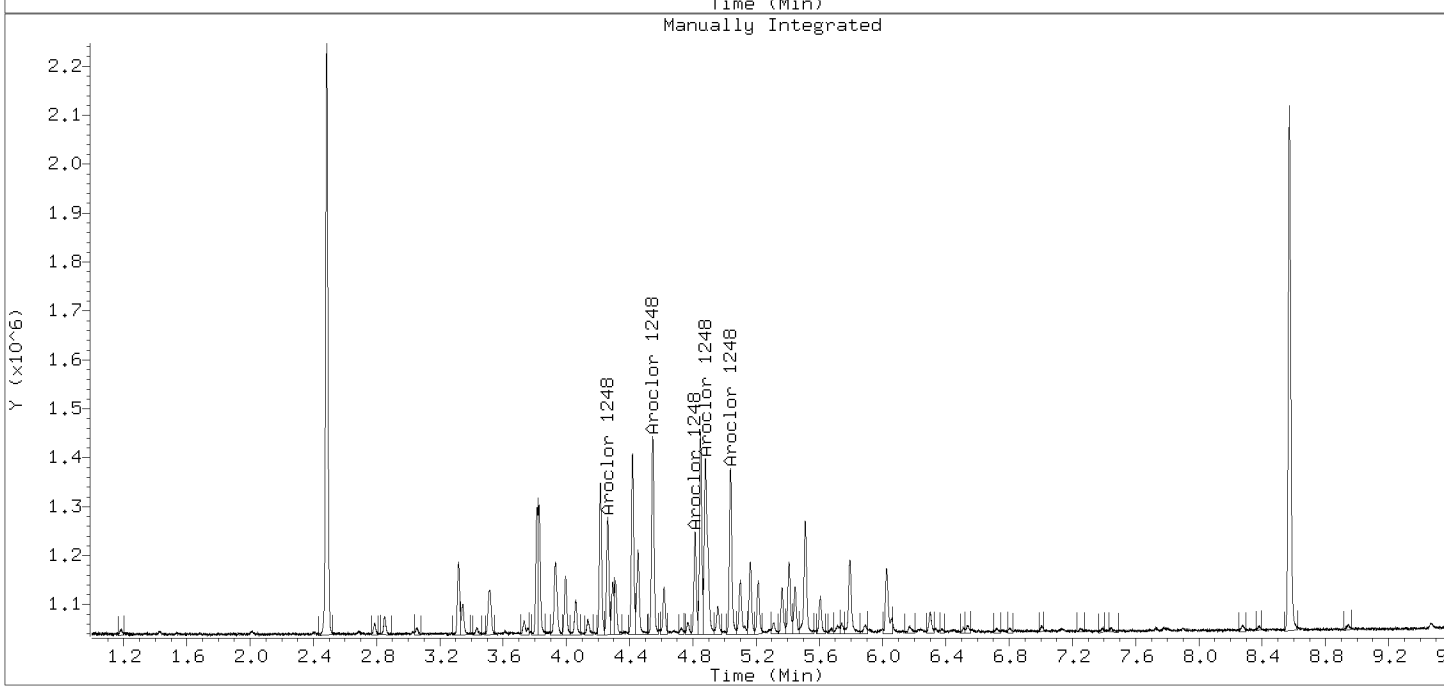
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

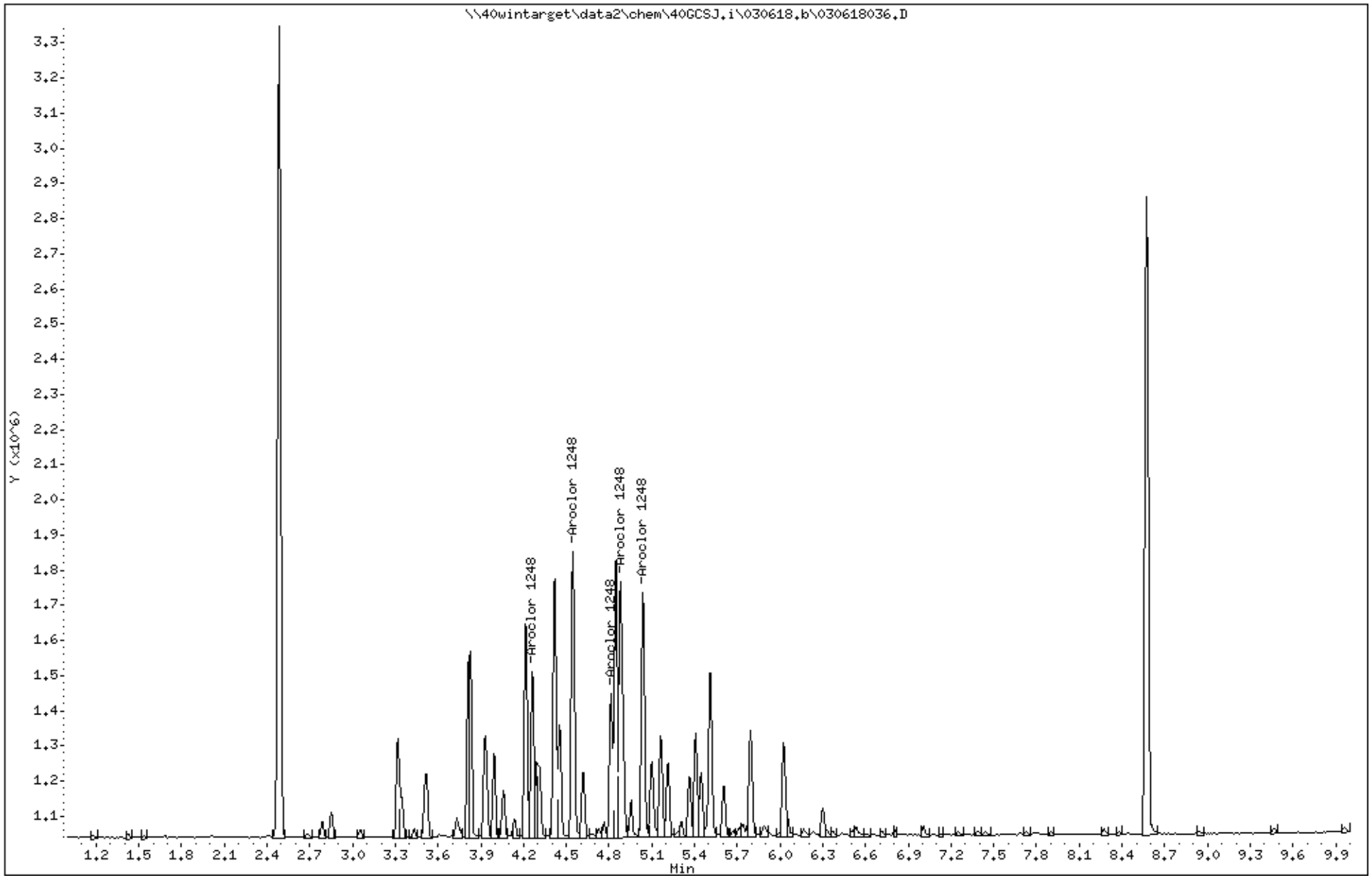
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

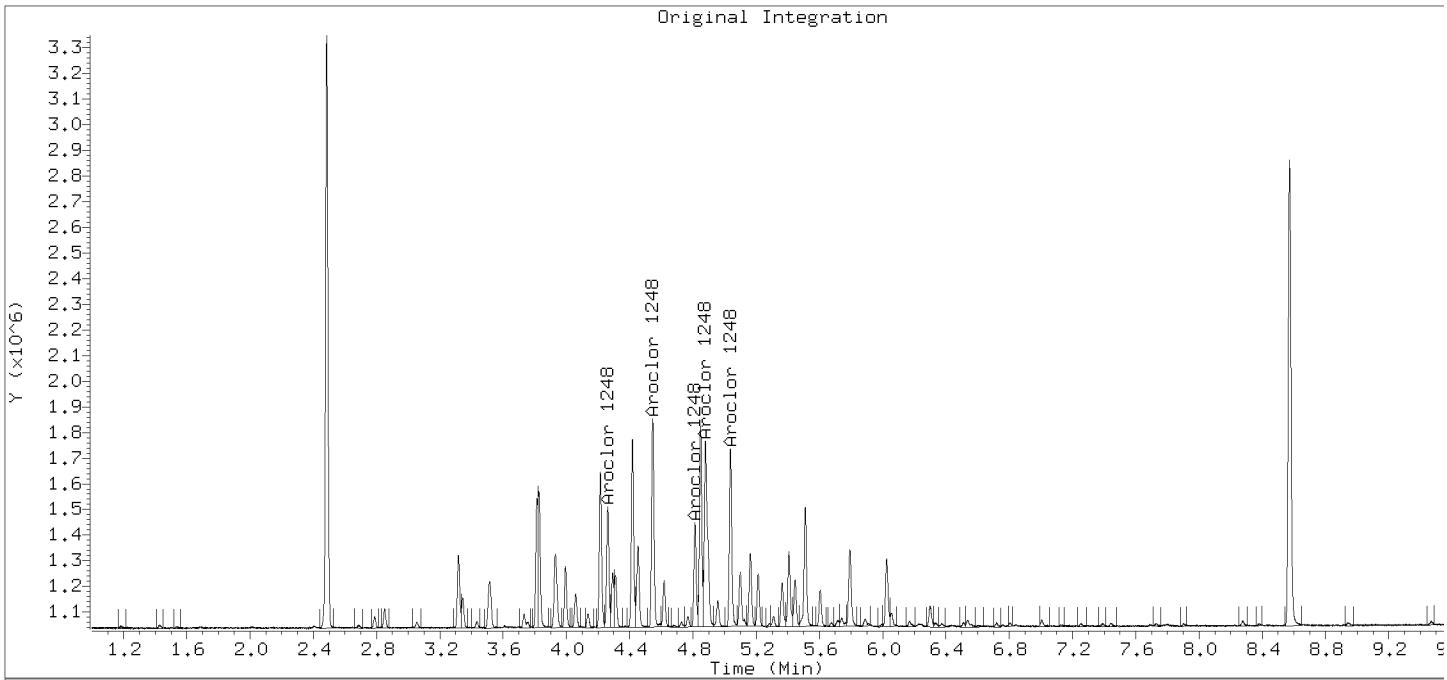
Operator: BLM

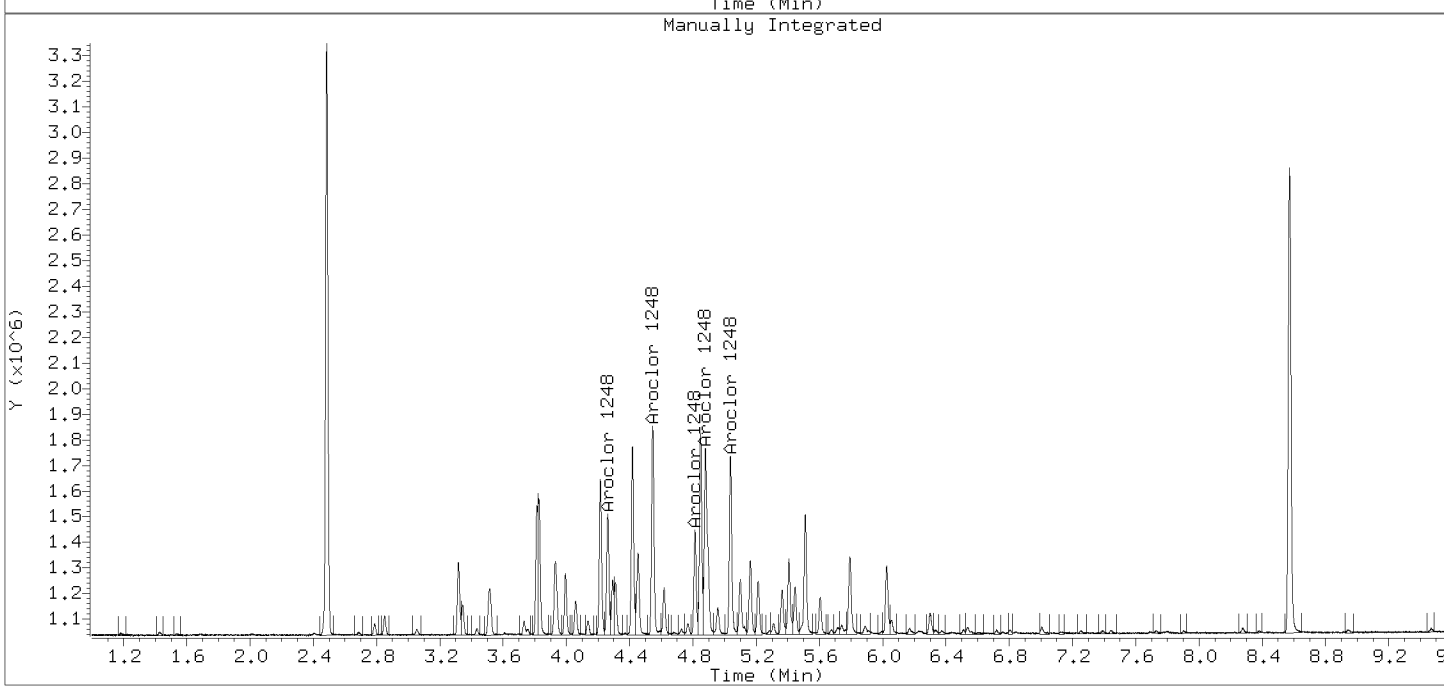
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D

Date : 06-MAR-2018 15:53

Client ID: 1248-CAL3D

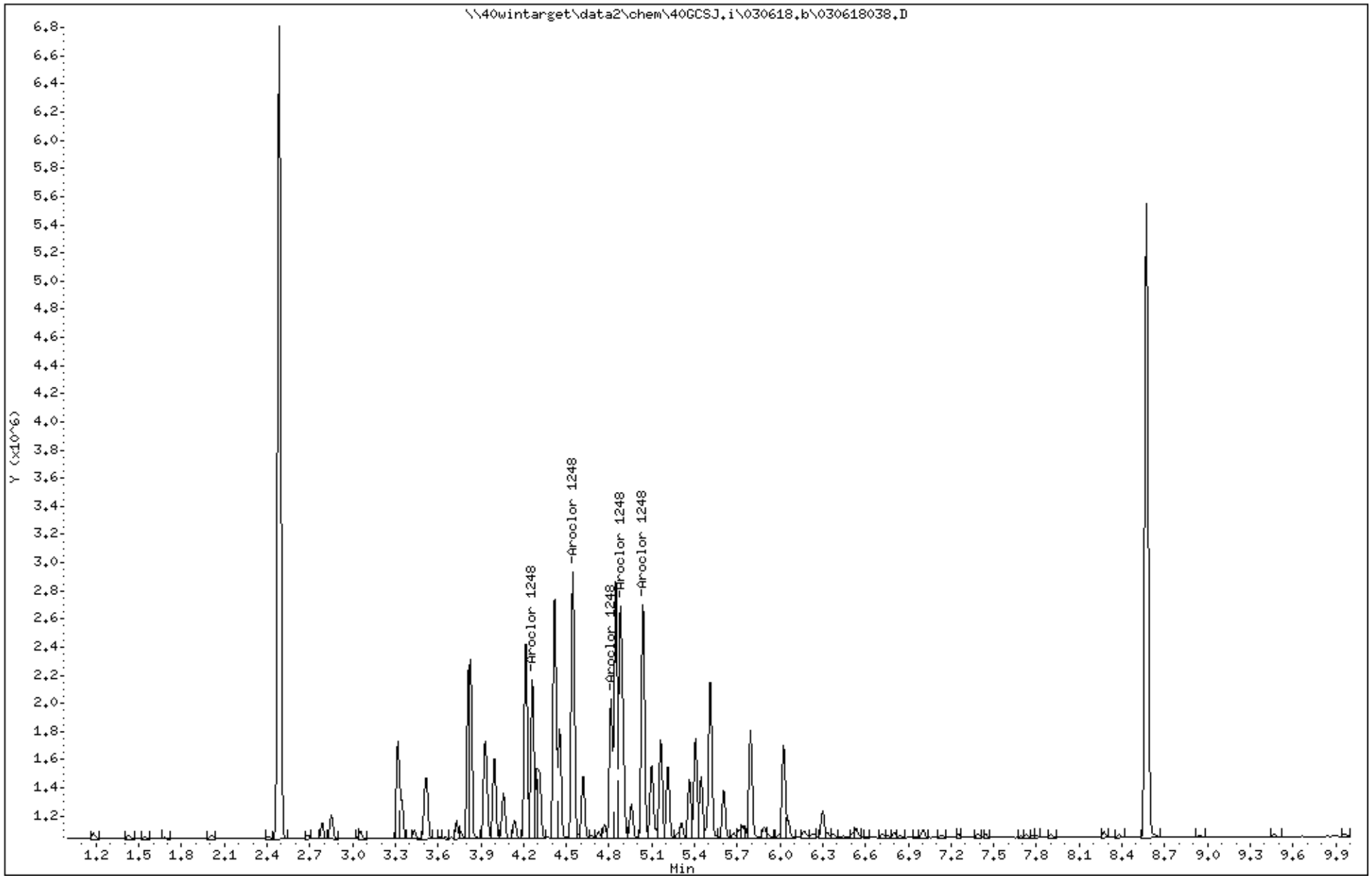
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

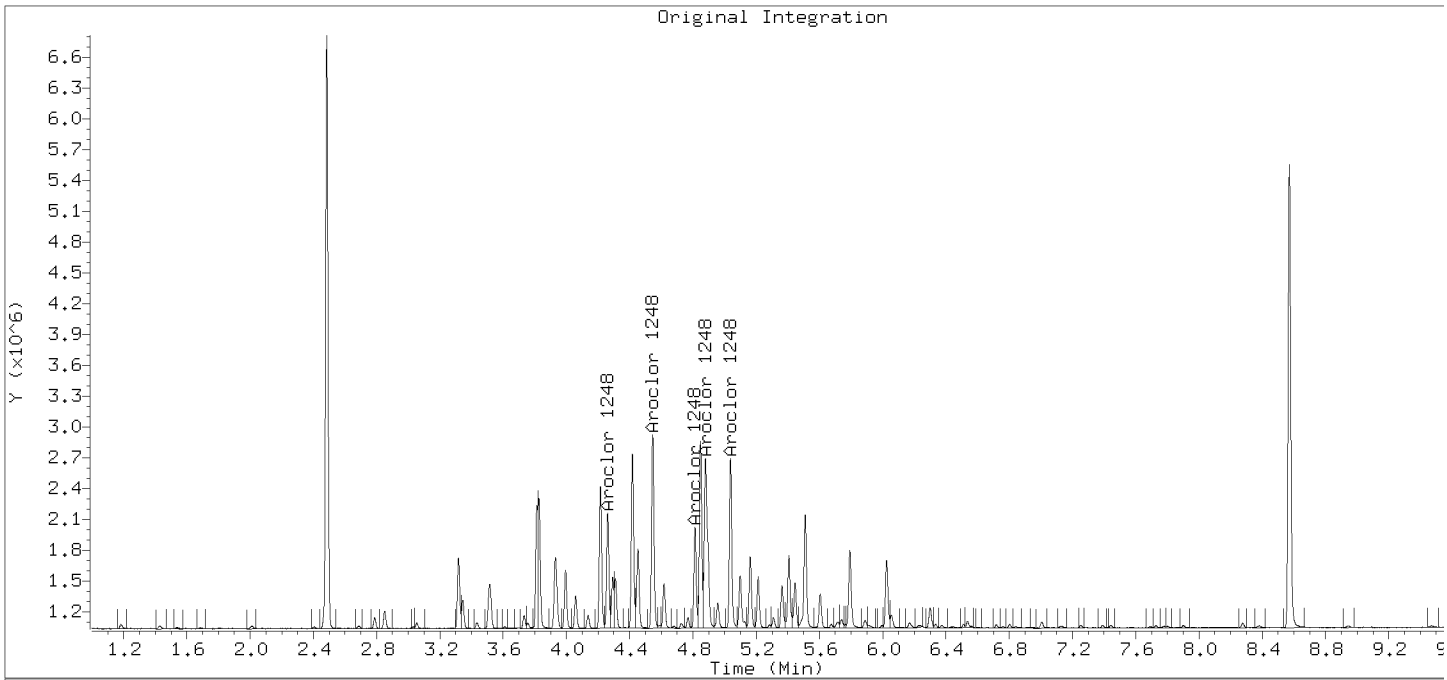
Operator: BLM

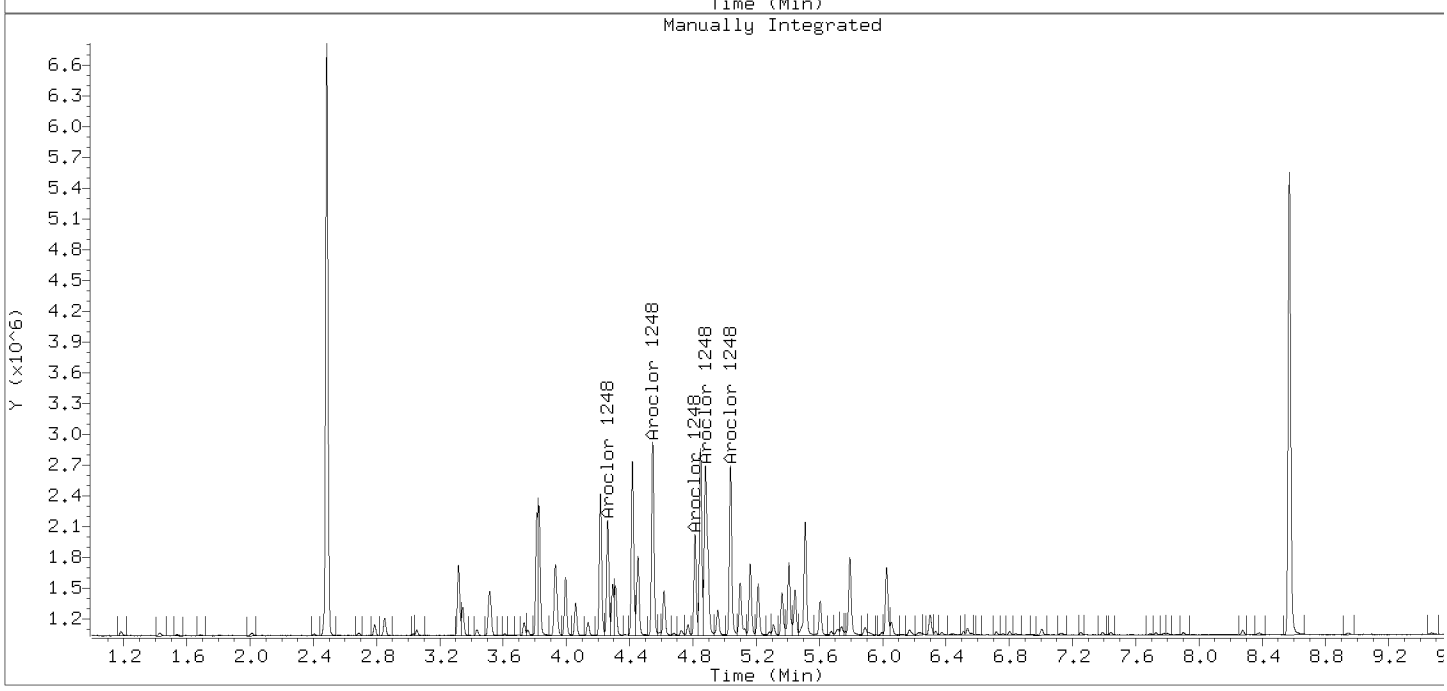
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

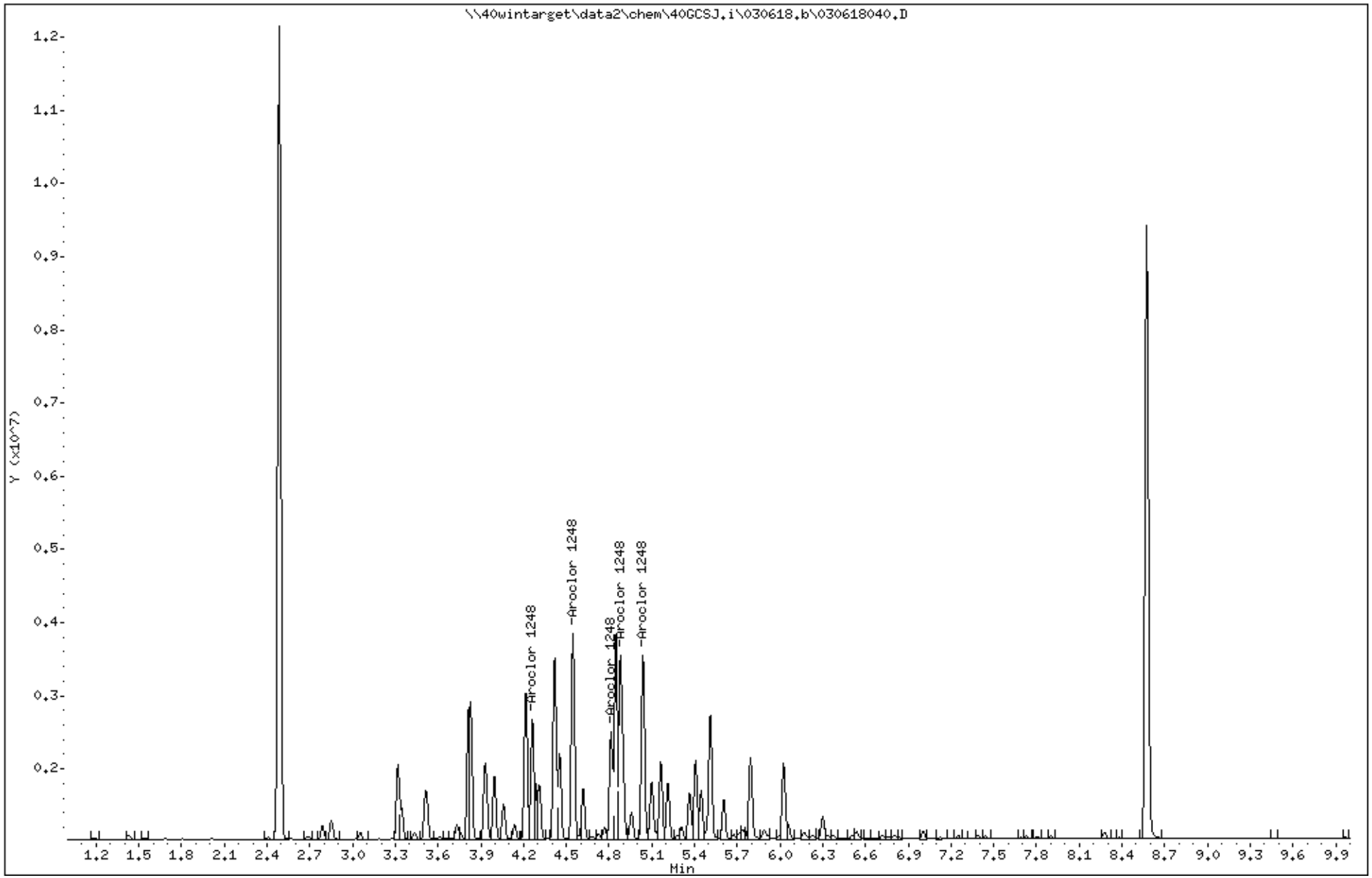
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

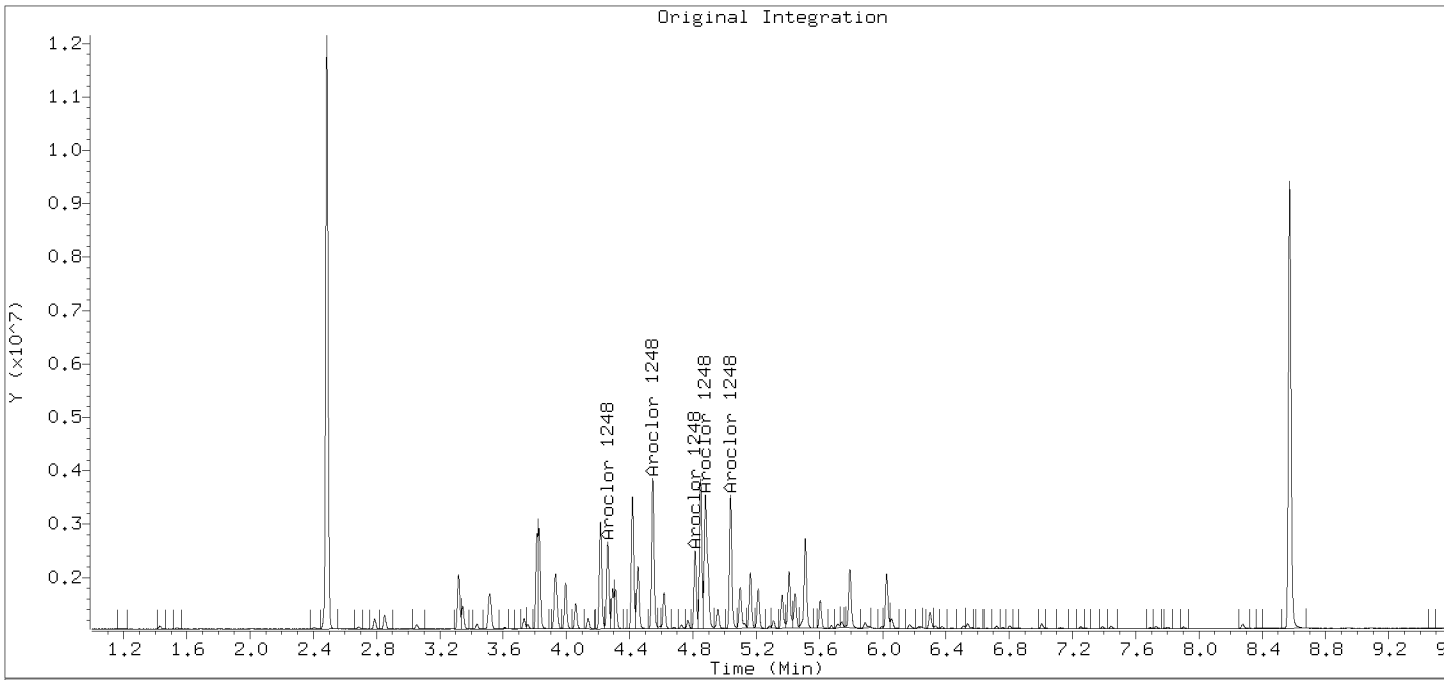
Operator: BLM

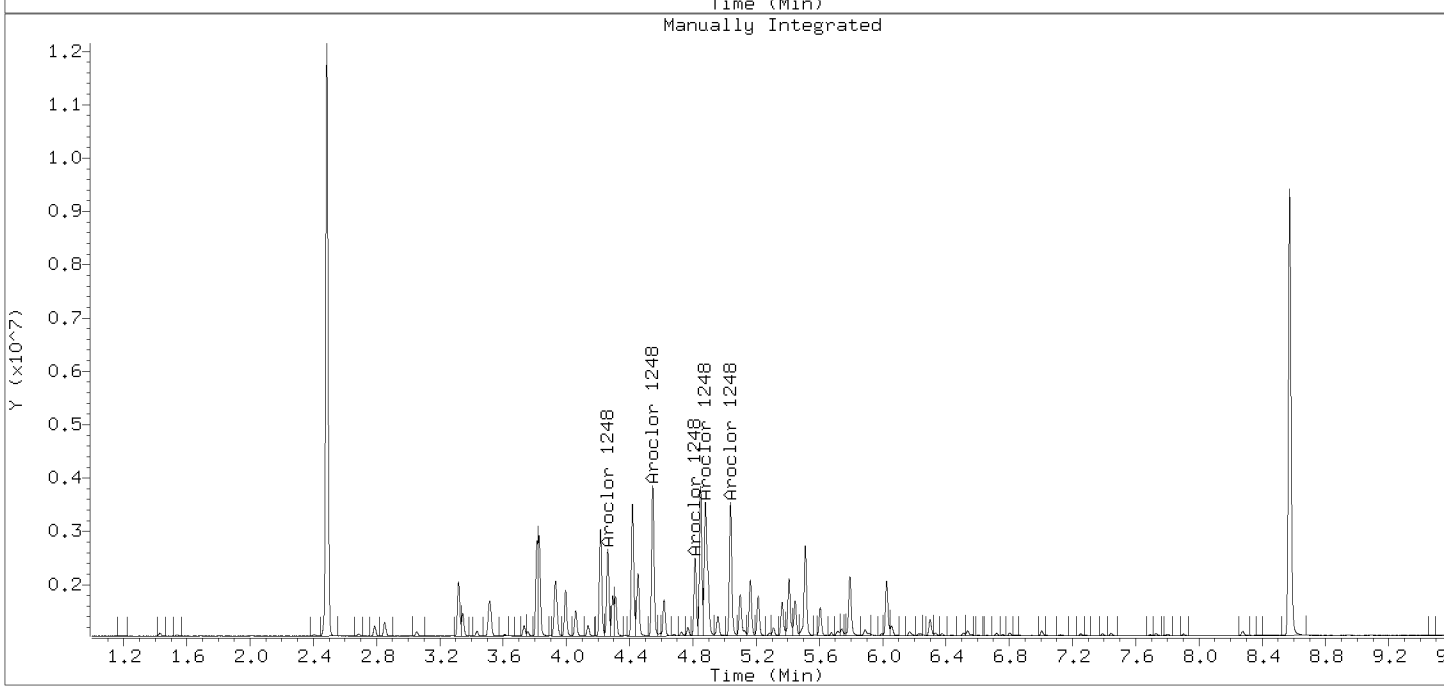
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

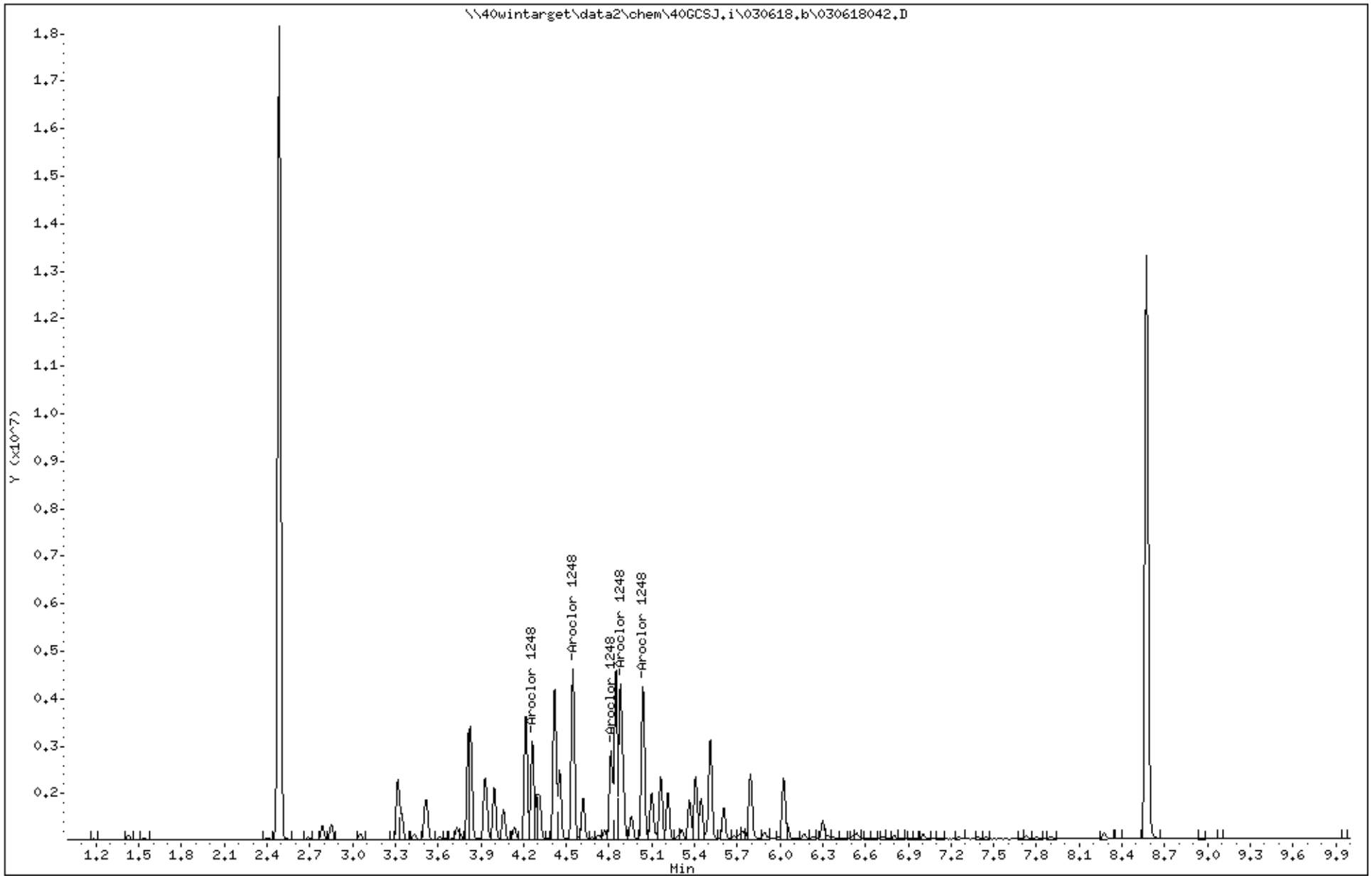
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

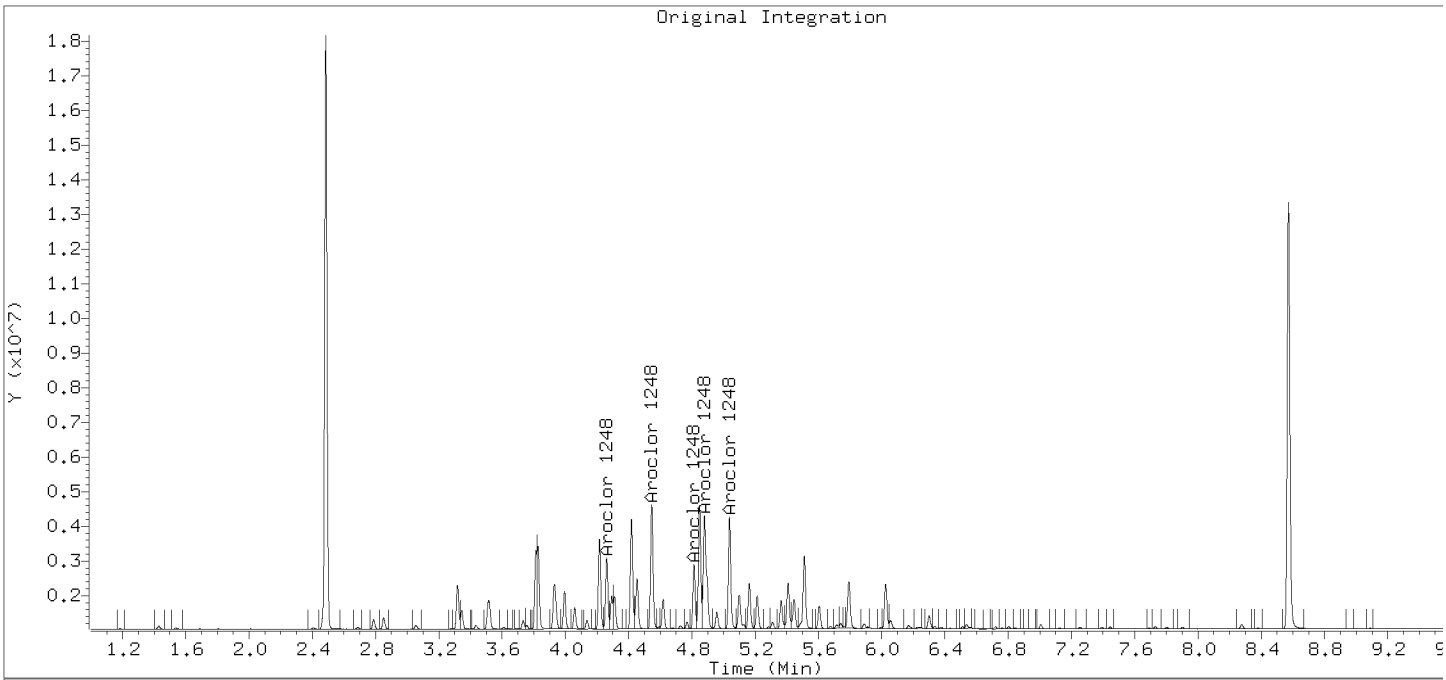
Operator: BLM

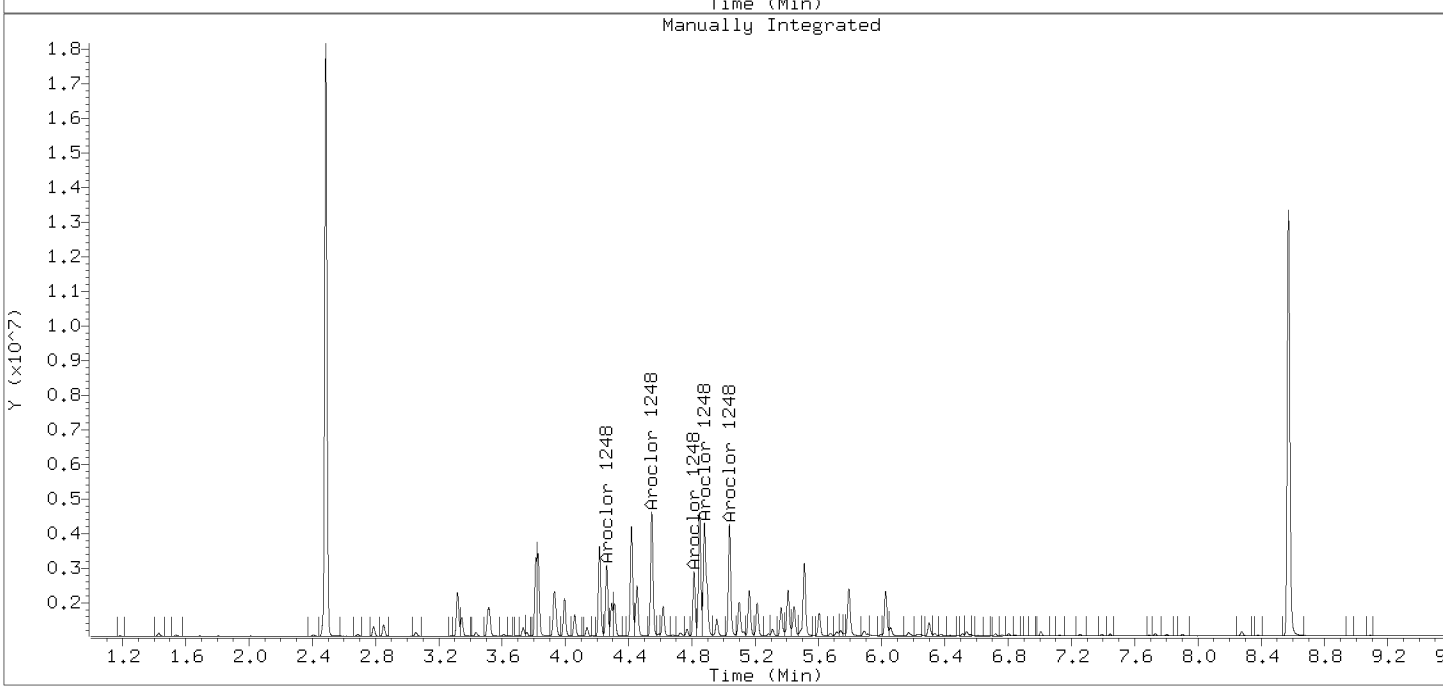
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:57

Client ID: 1254-CAL1C

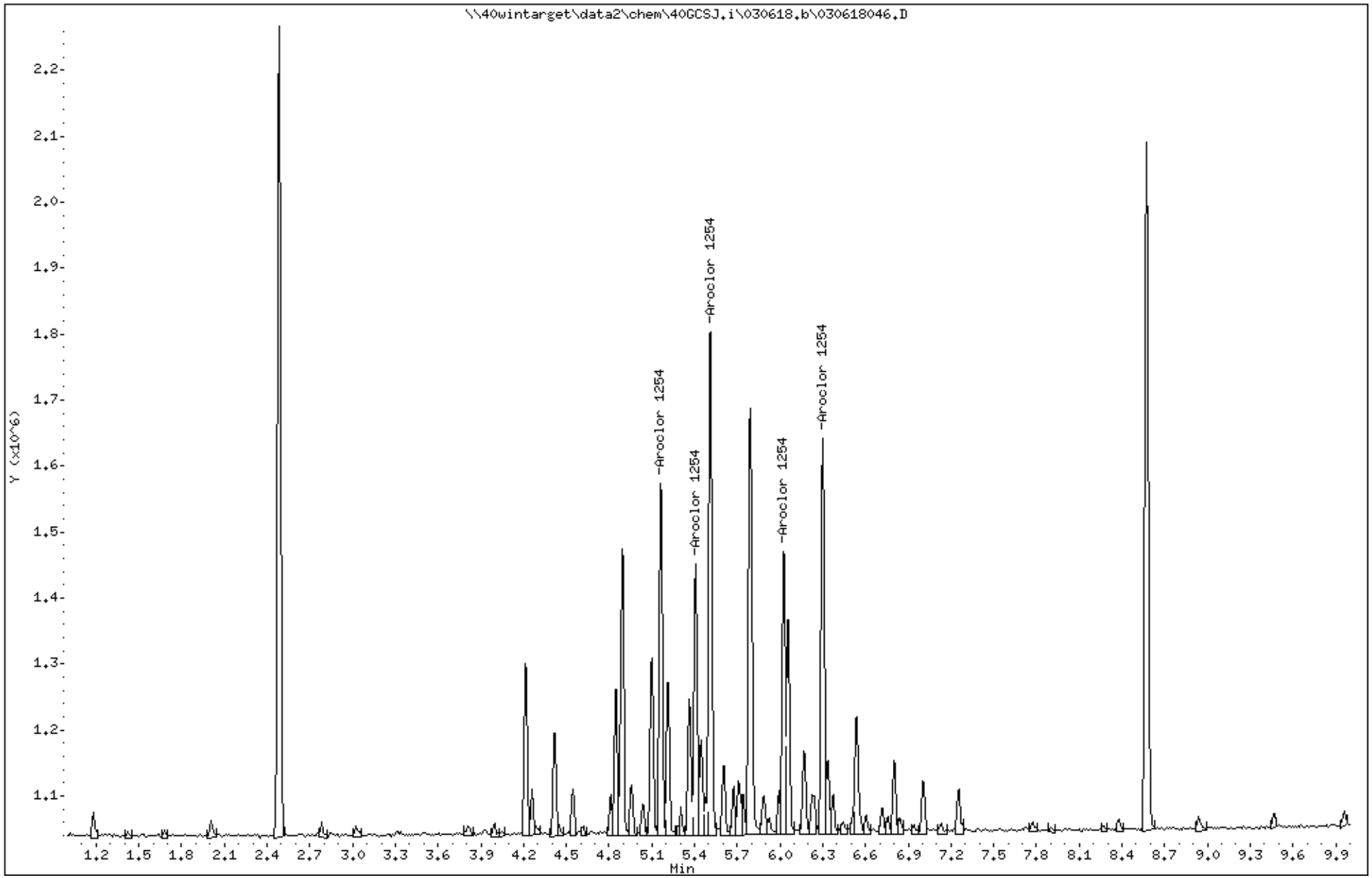
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

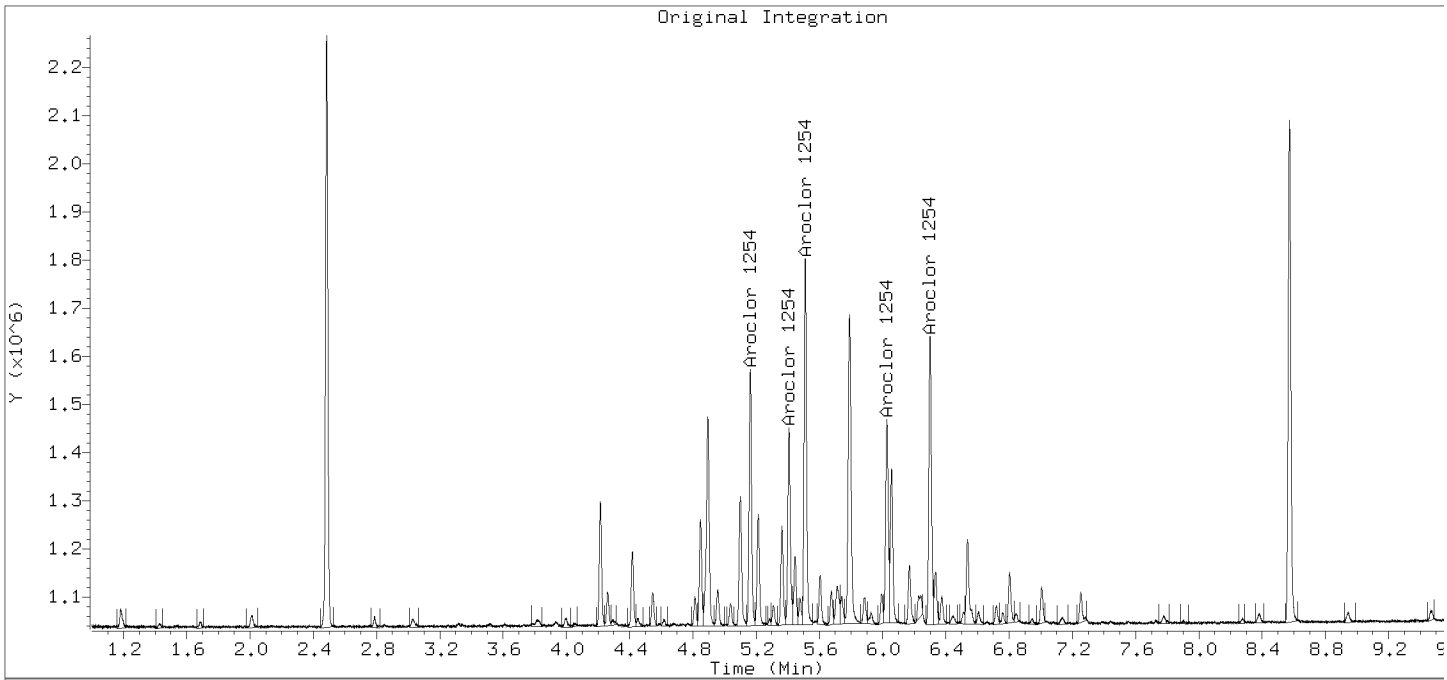
Operator: BLM

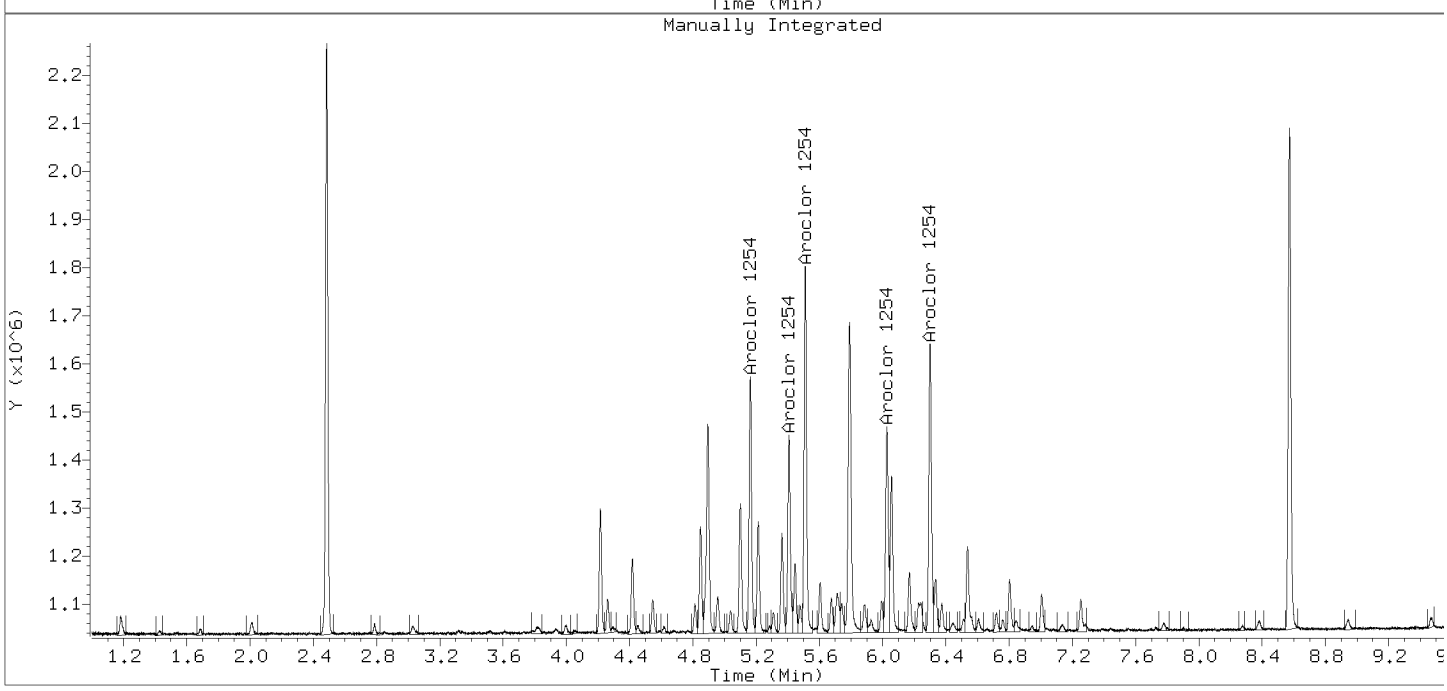
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

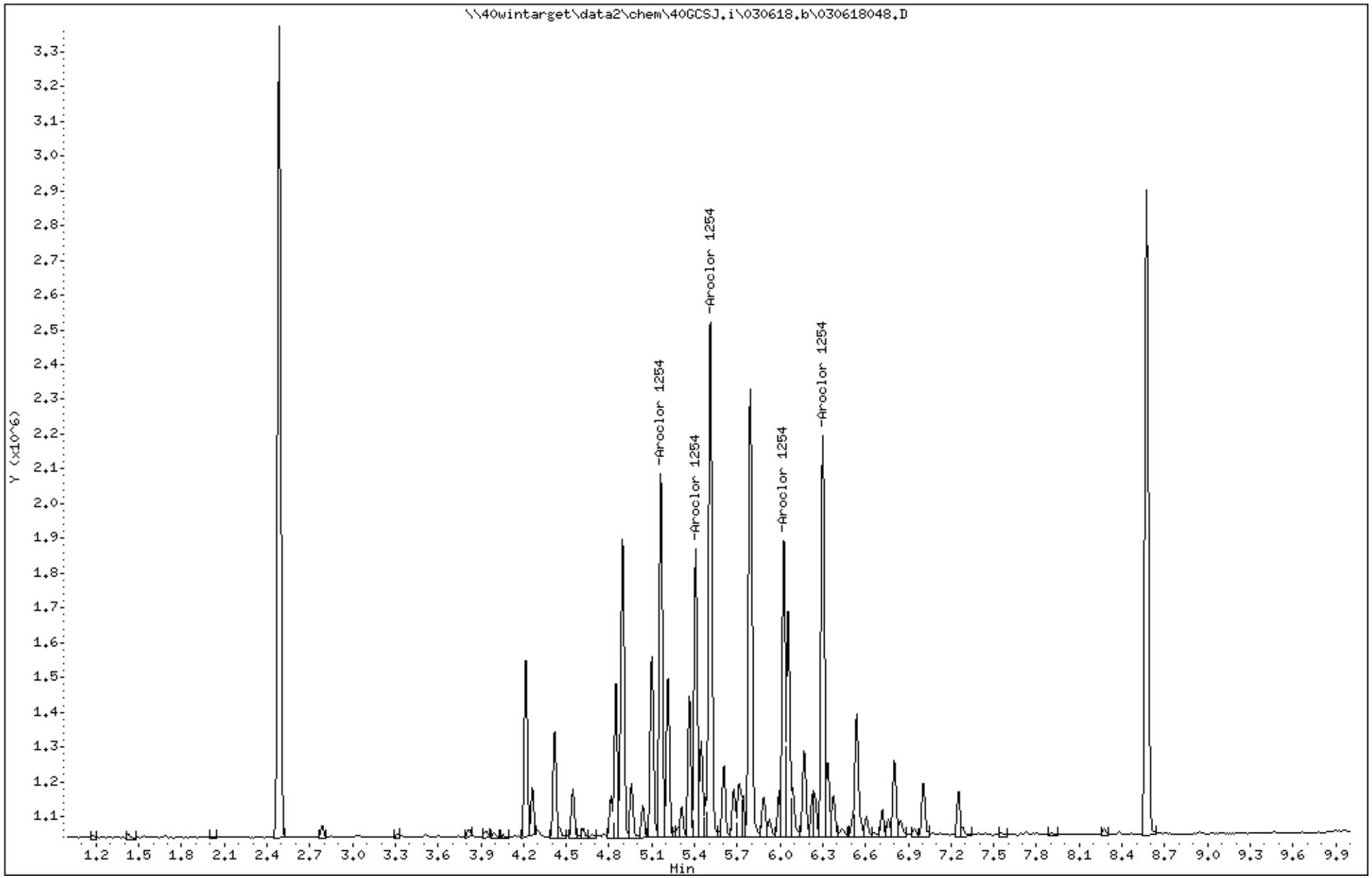
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

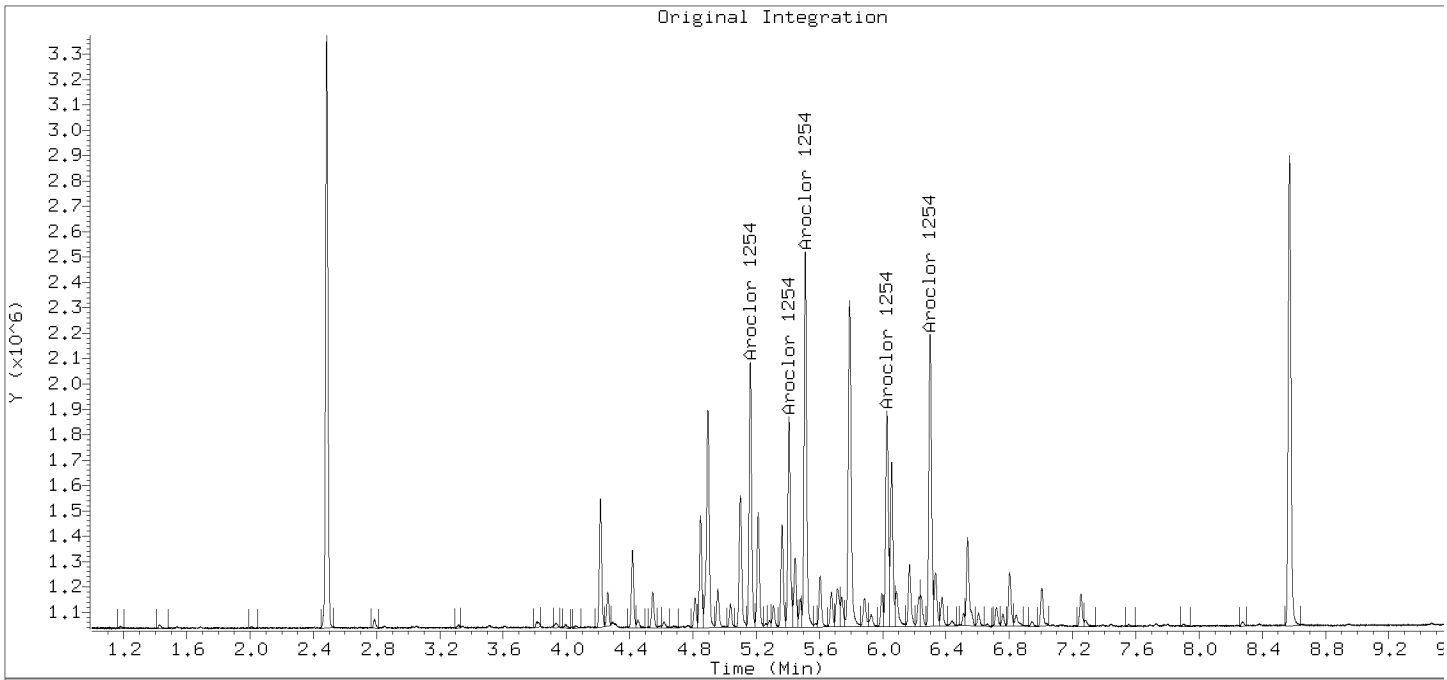
Operator: BLM

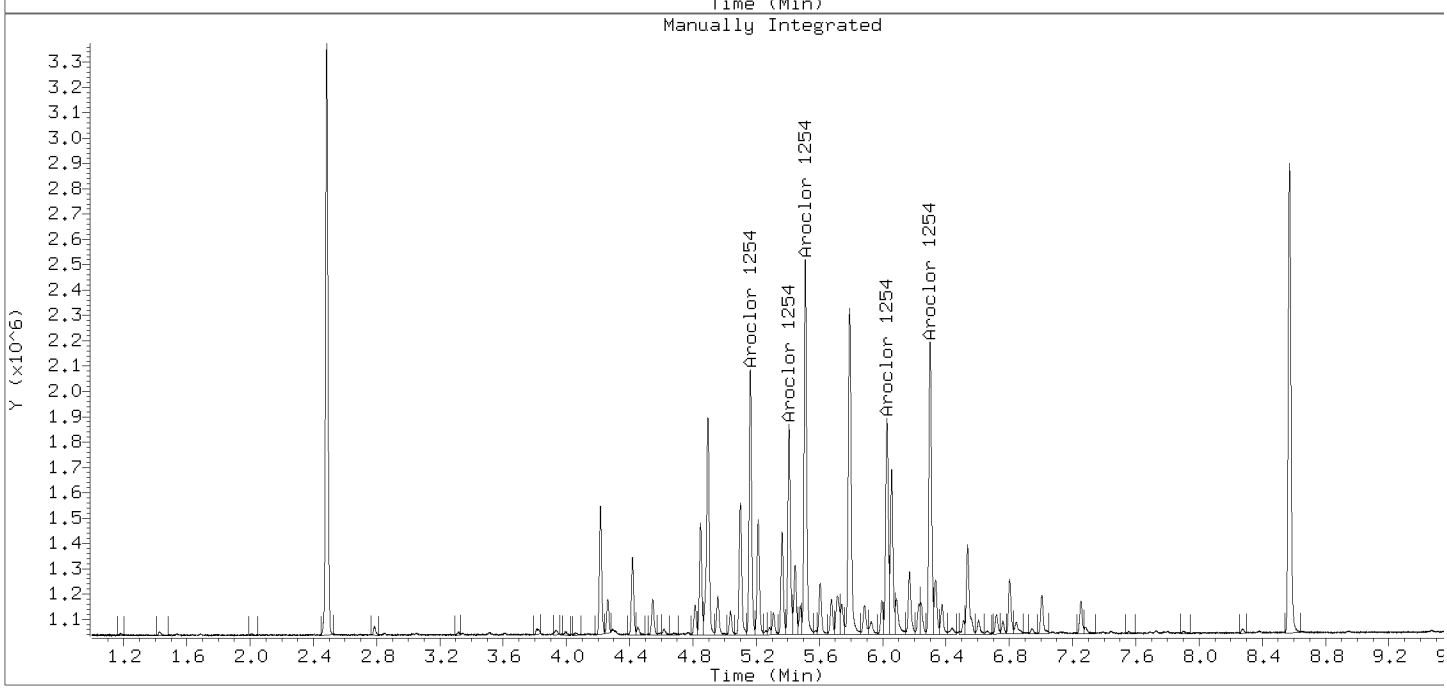
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

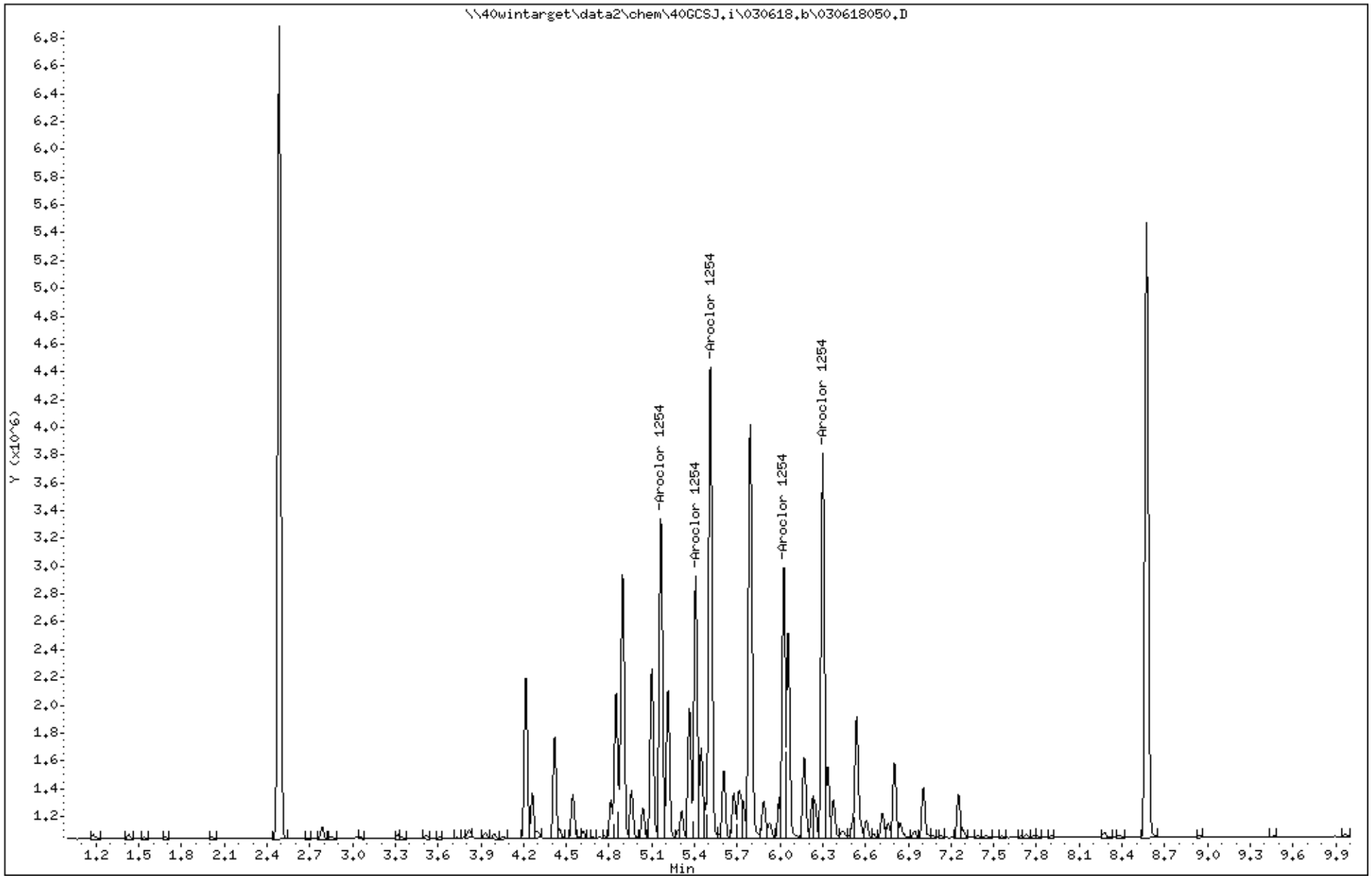
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

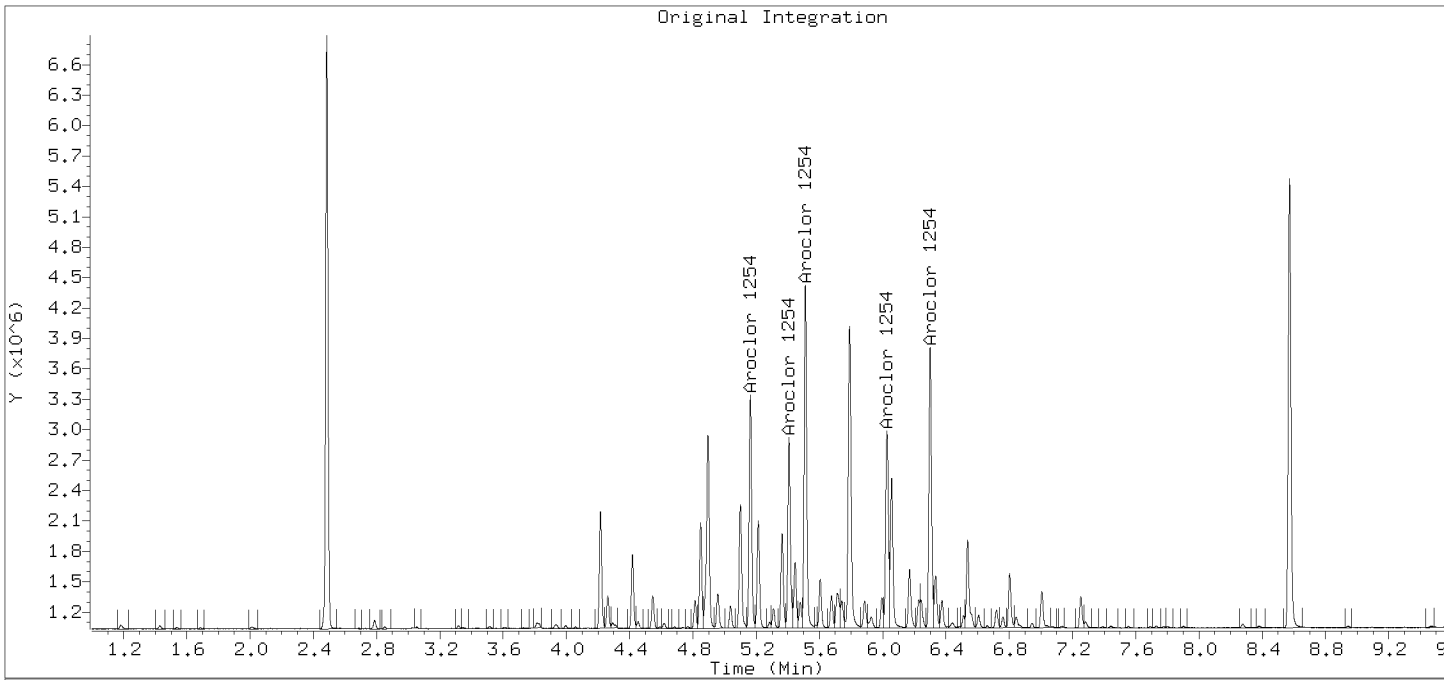
Operator: BLM

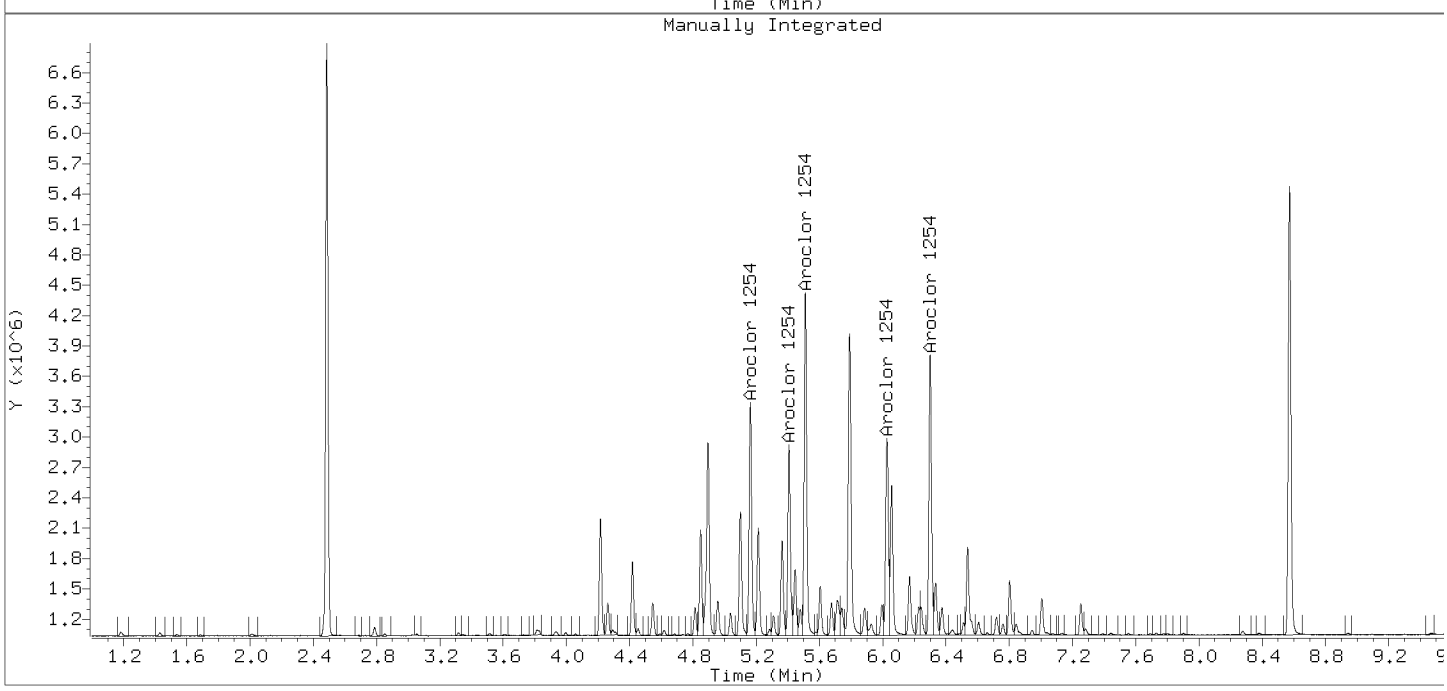
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

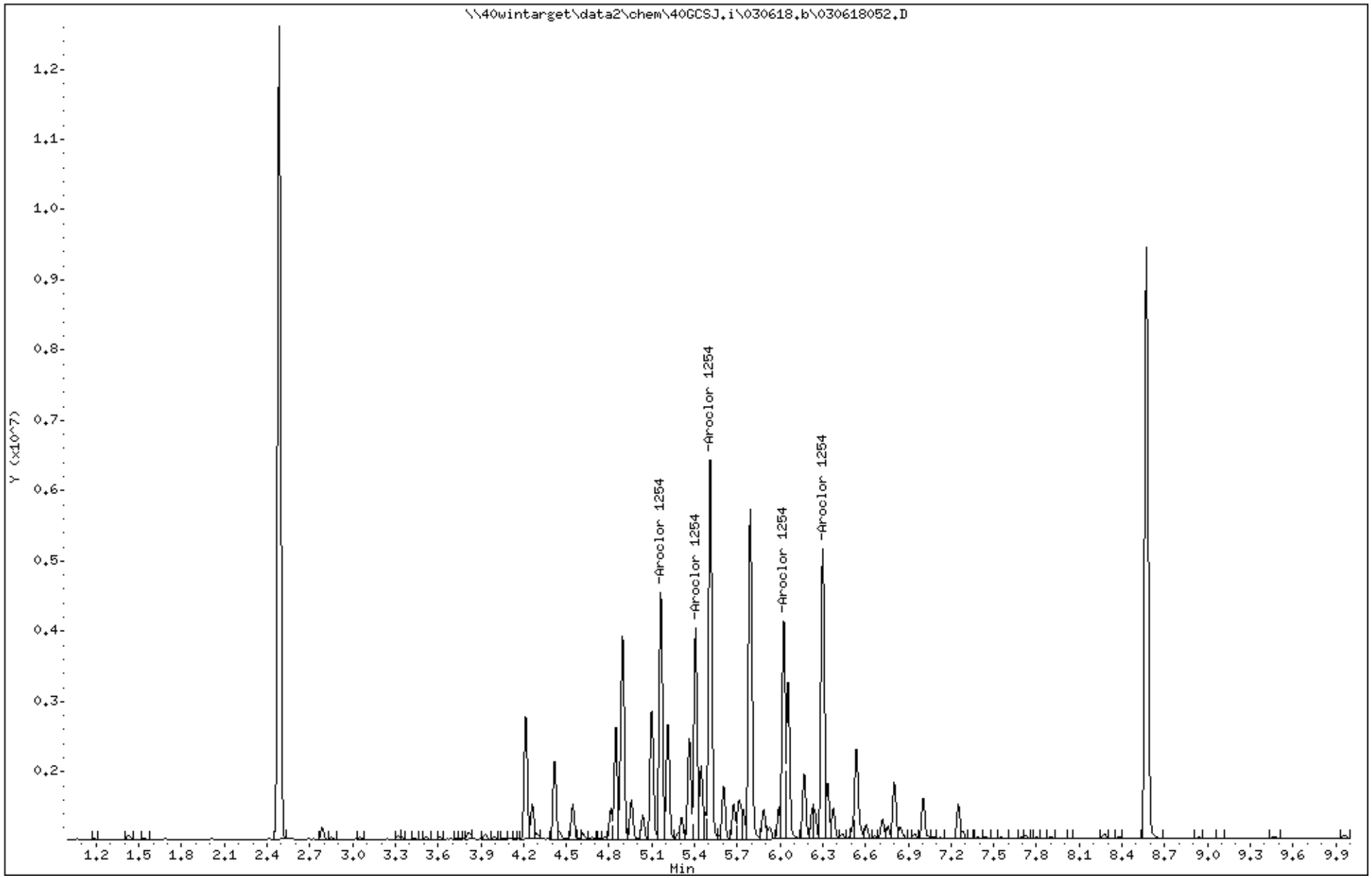
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

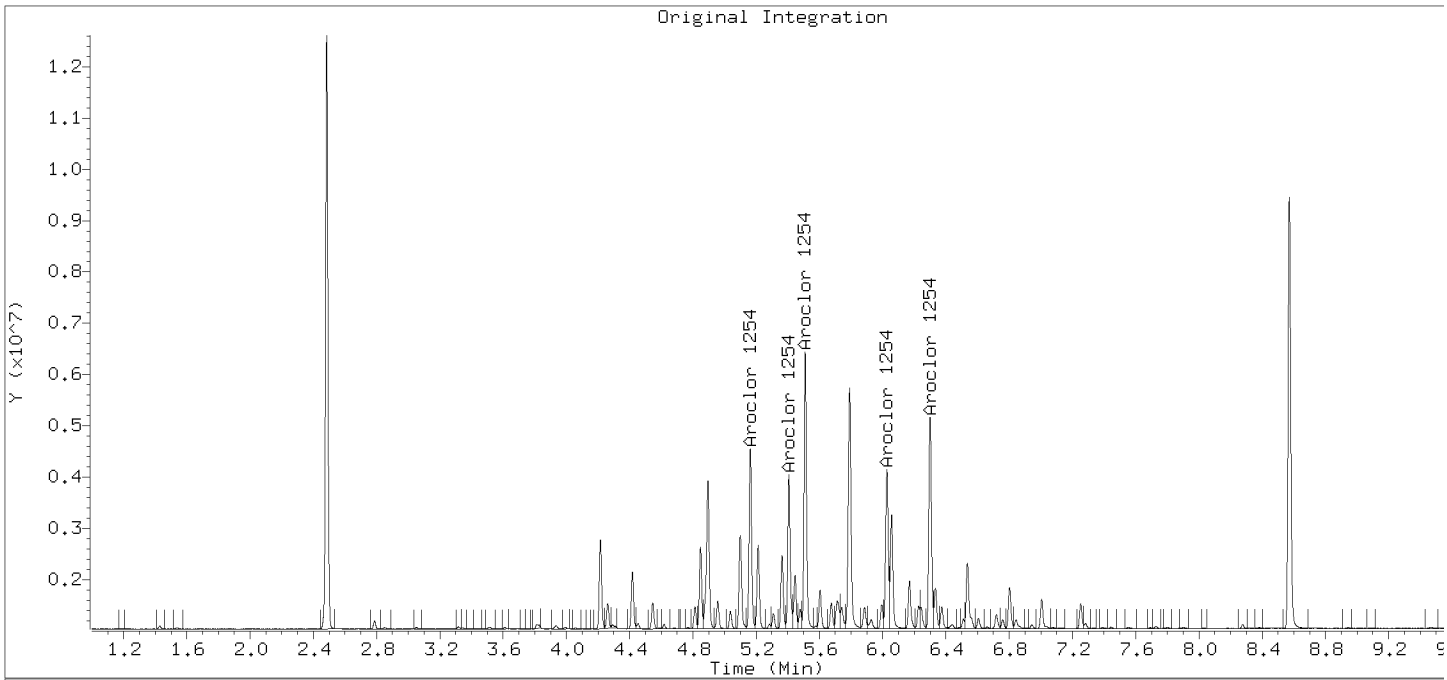
Operator: BLM

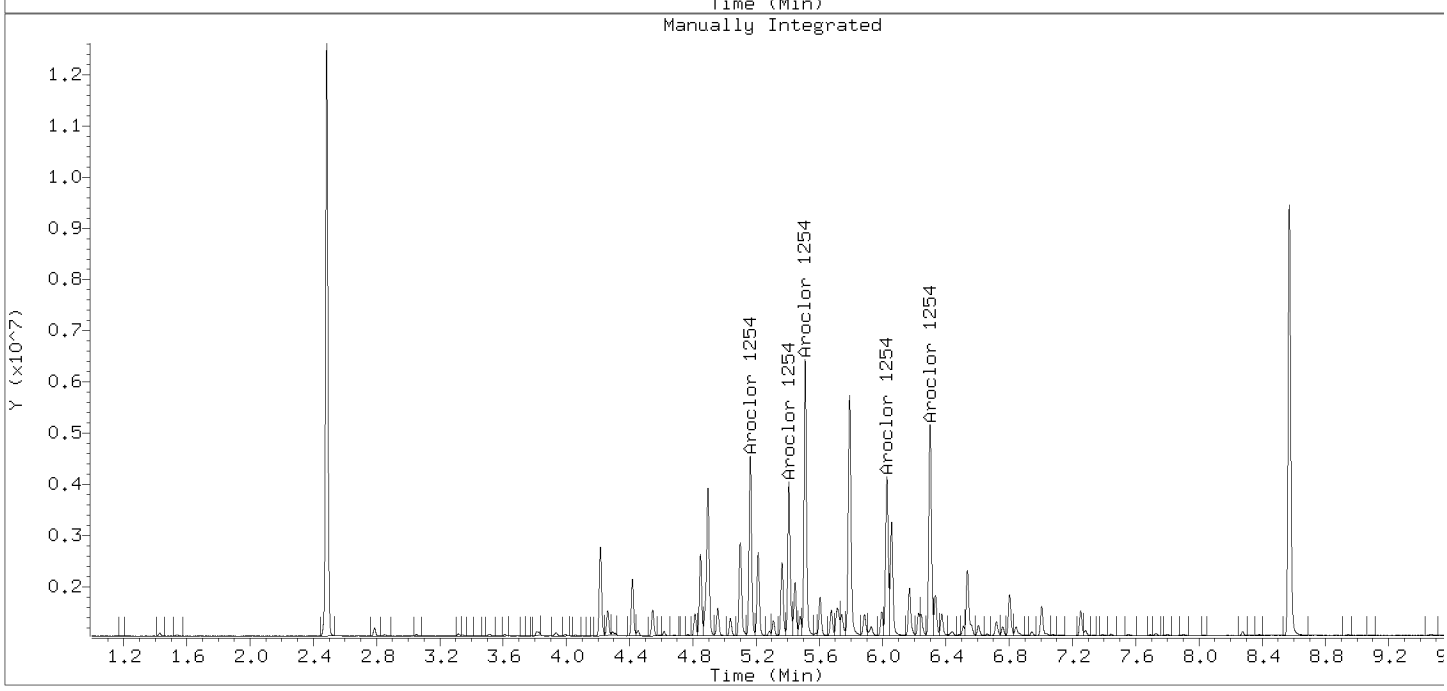
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

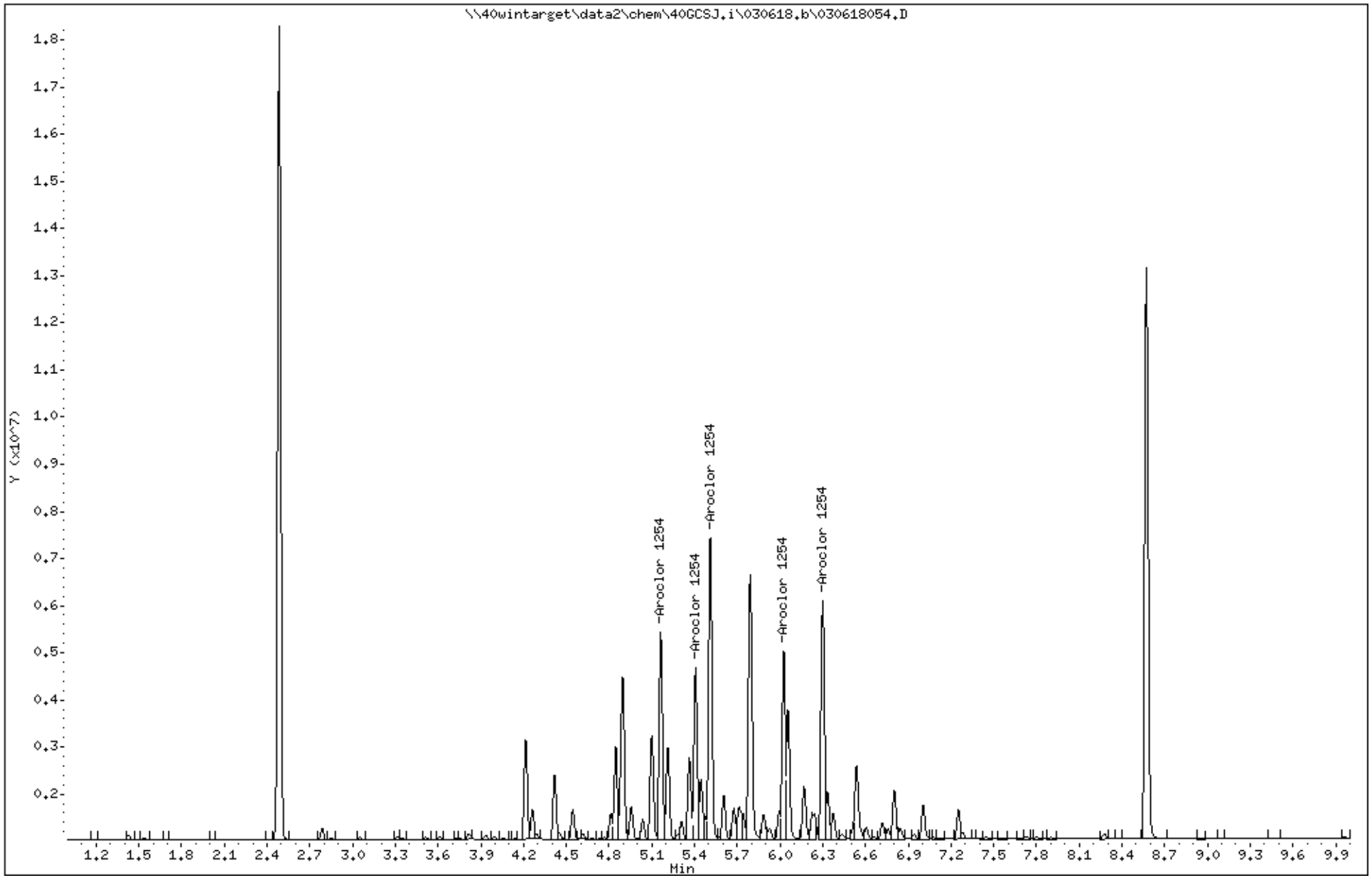
M - Compound response manually integrated.

Review Codes Legend

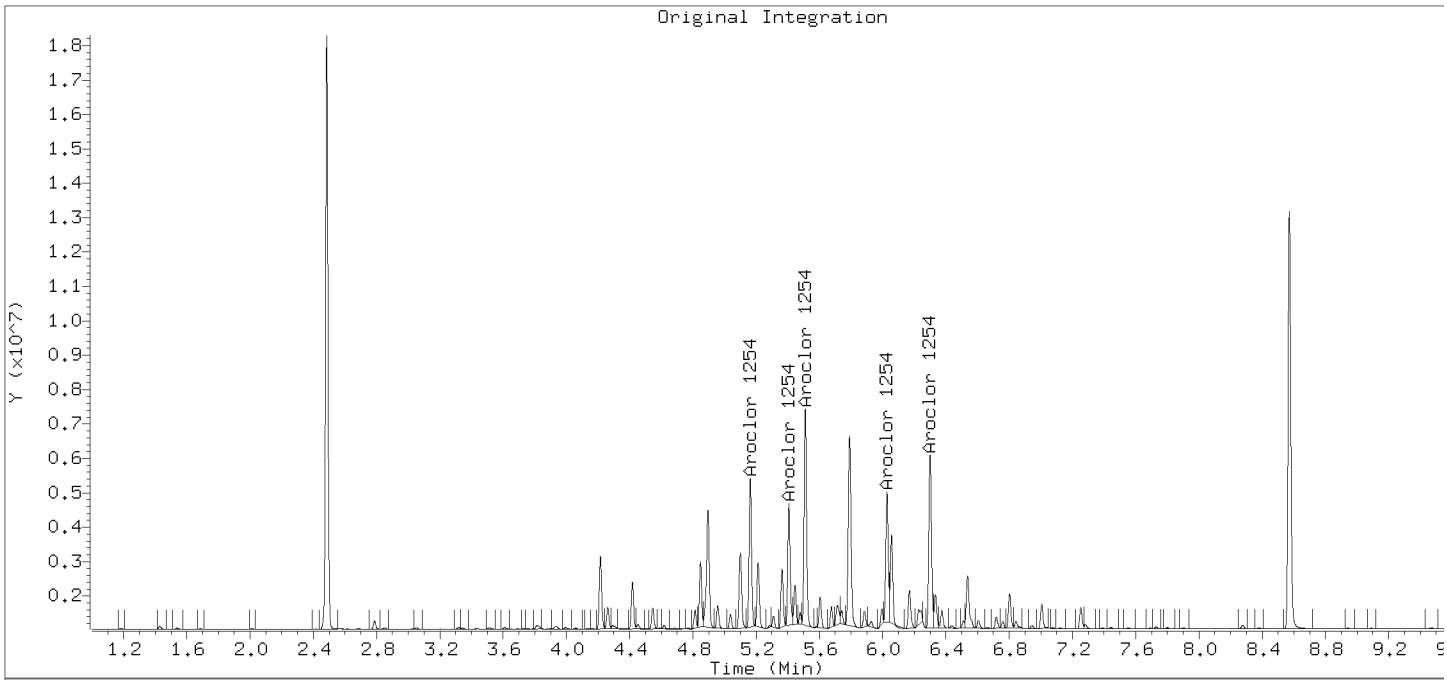
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

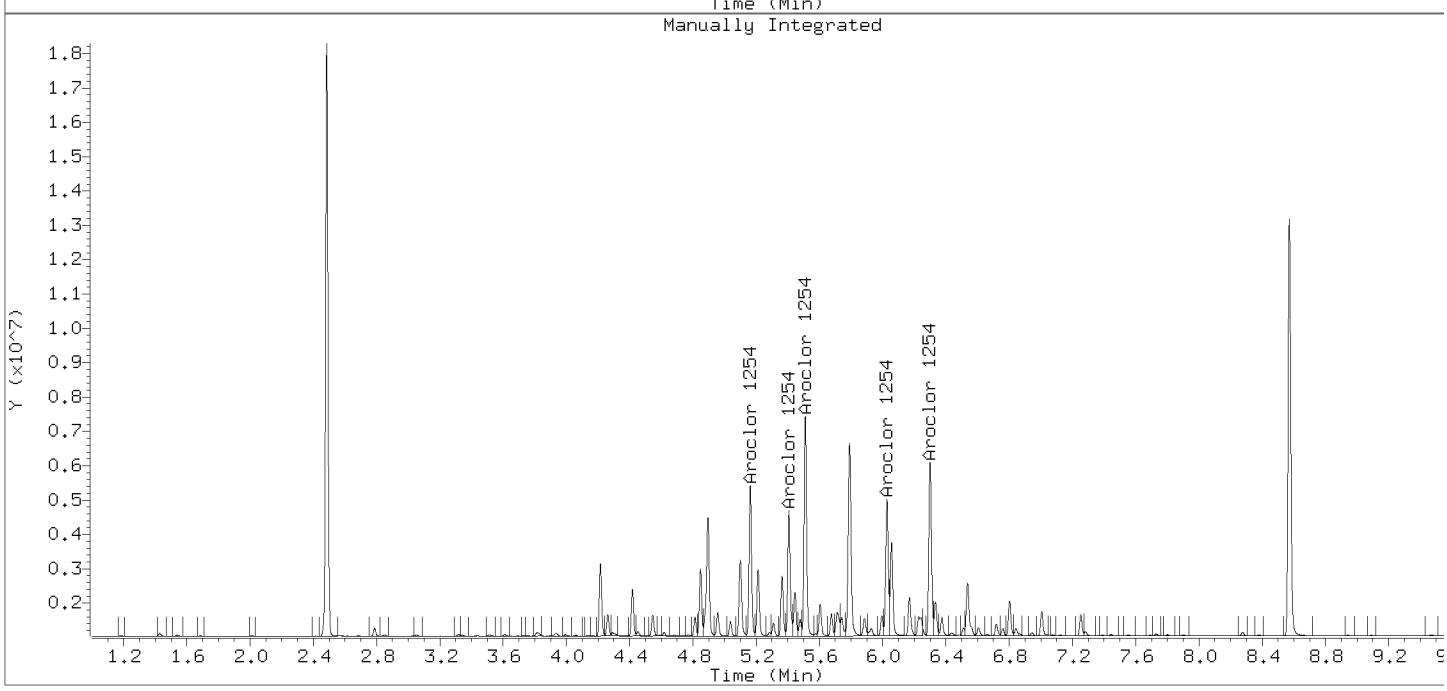
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

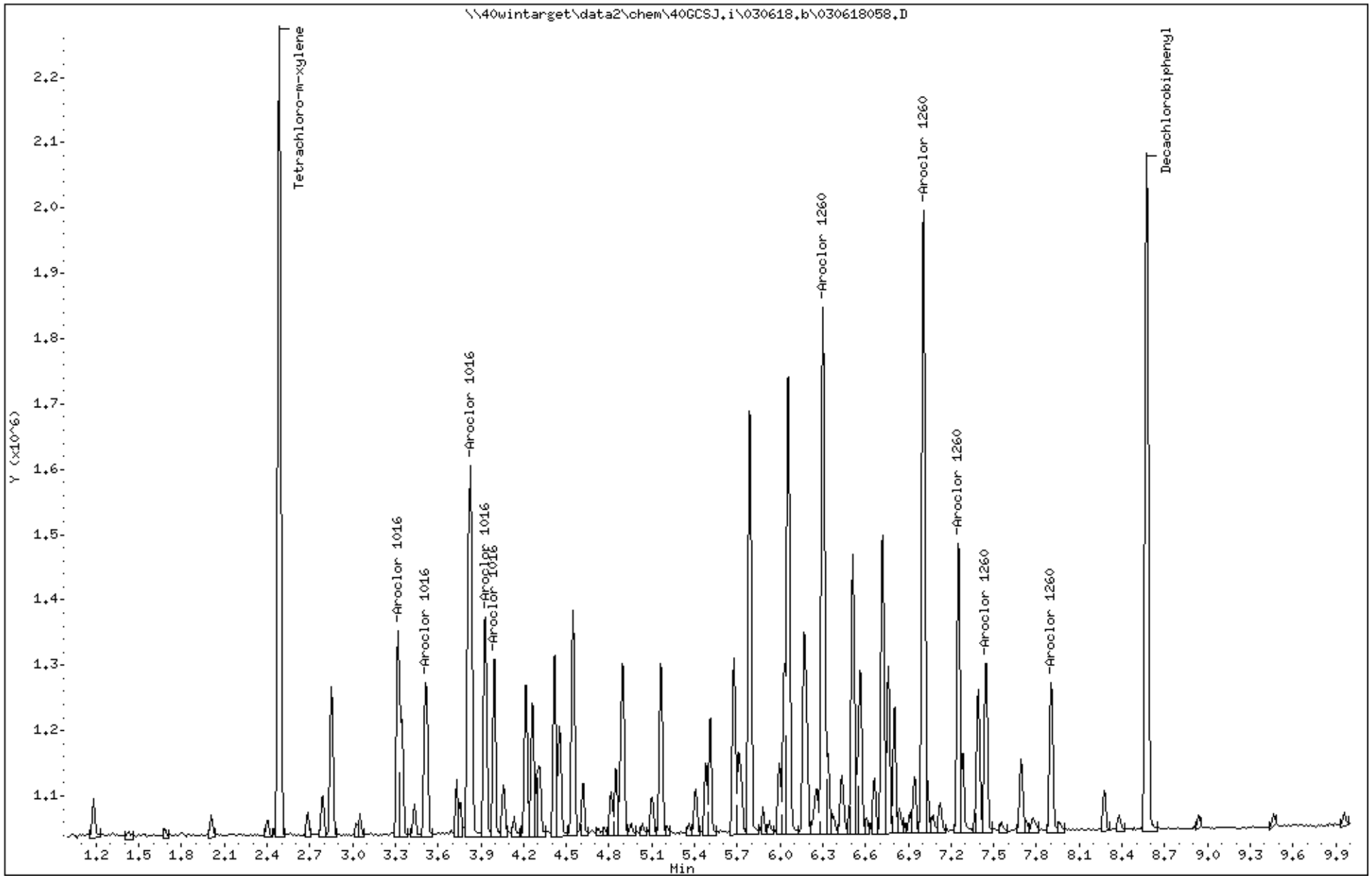
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

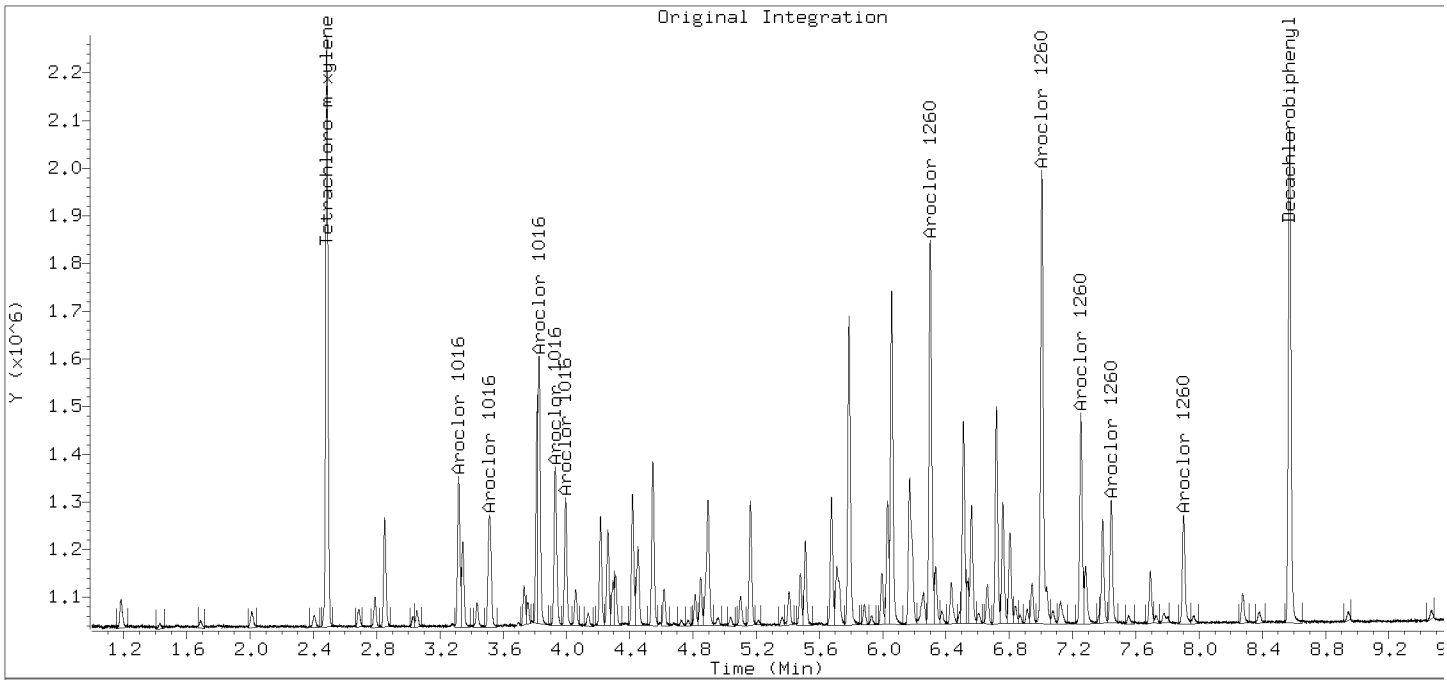
Operator: BLM

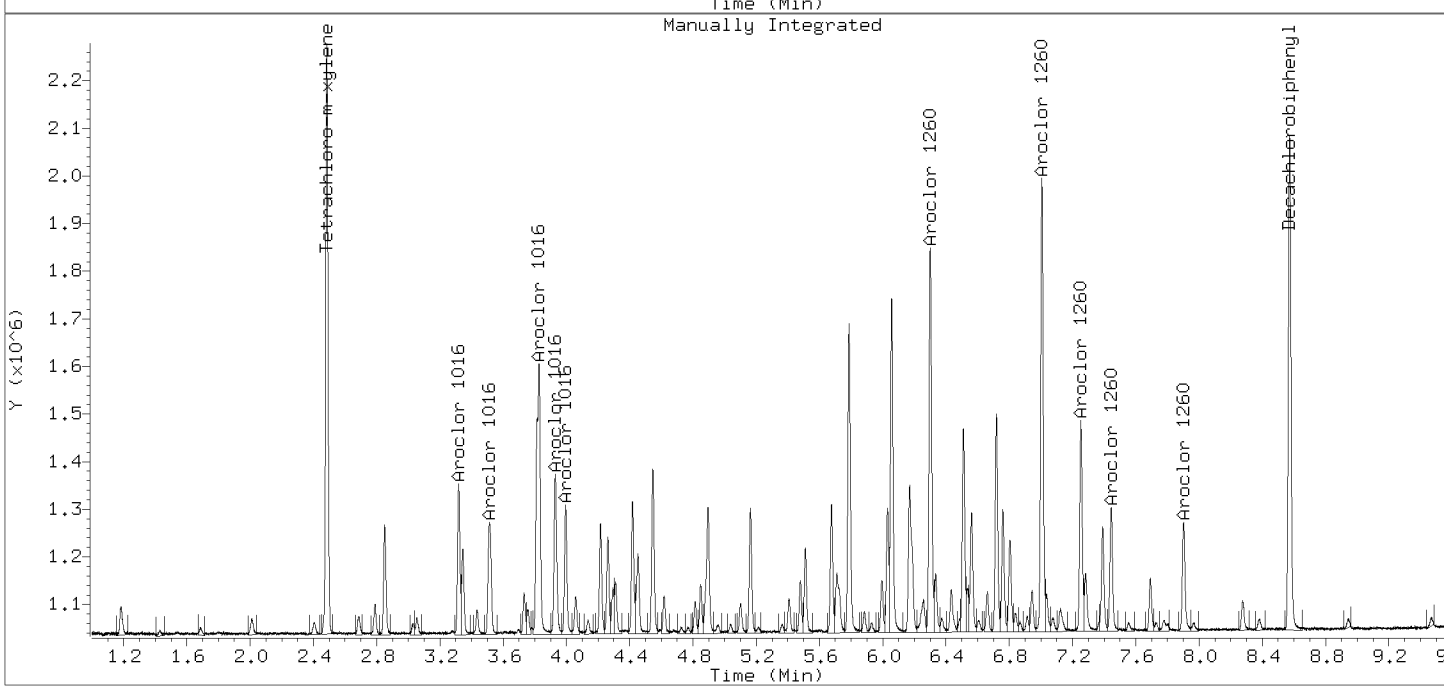
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

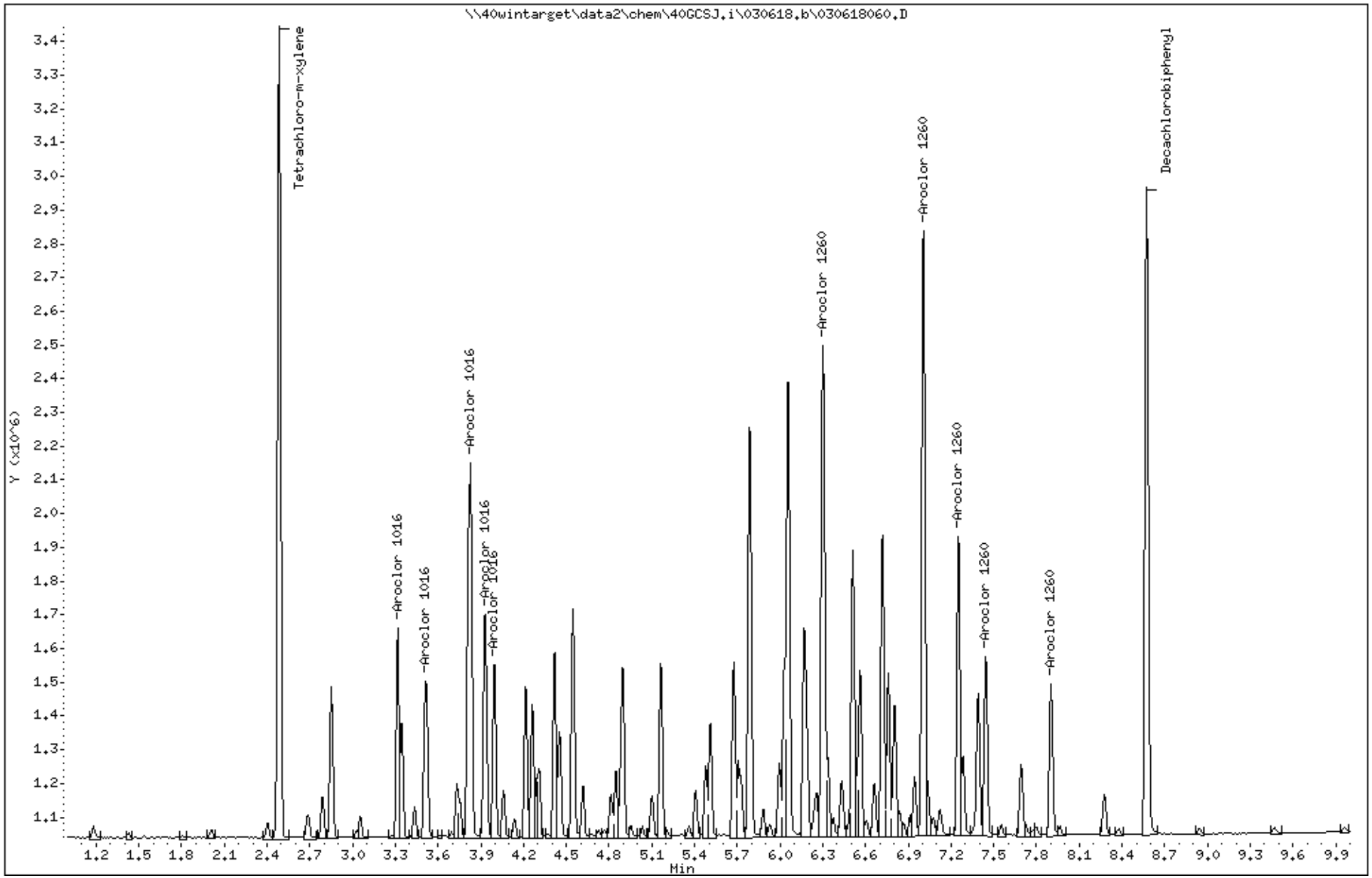
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

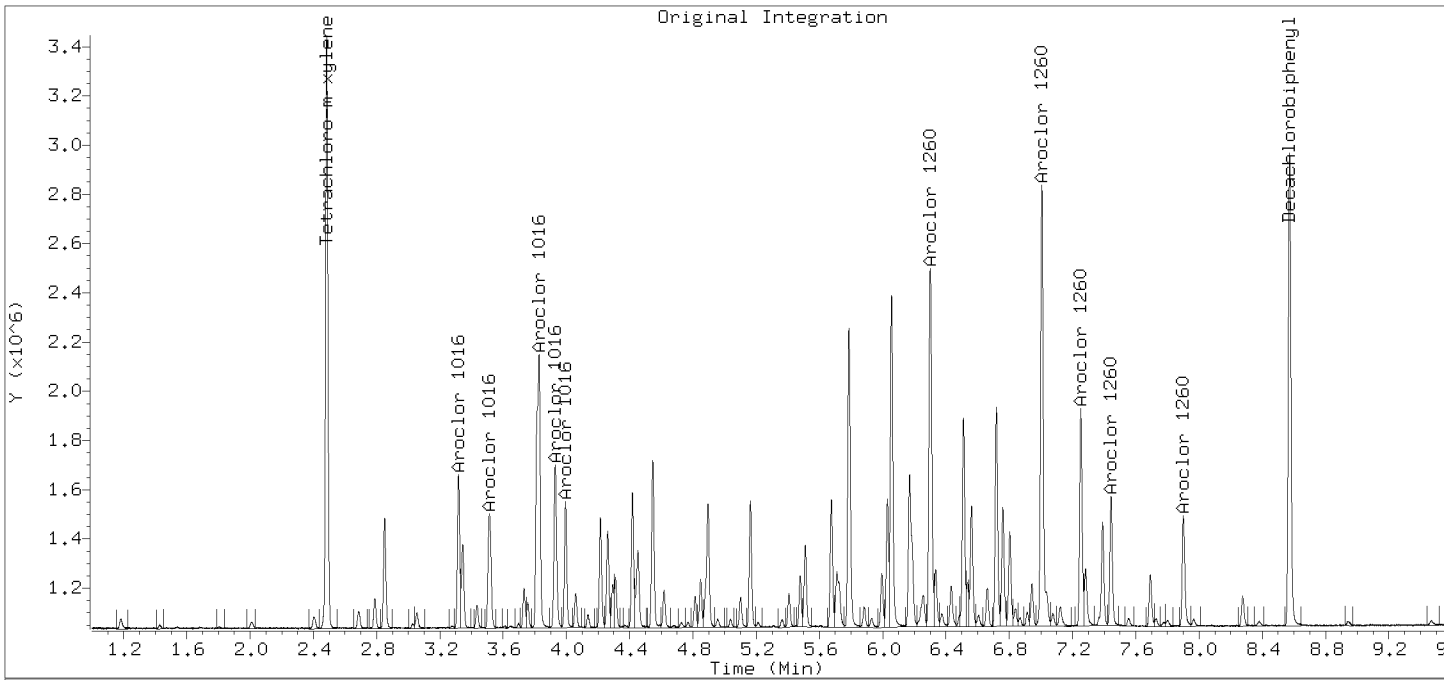
Operator: BLM

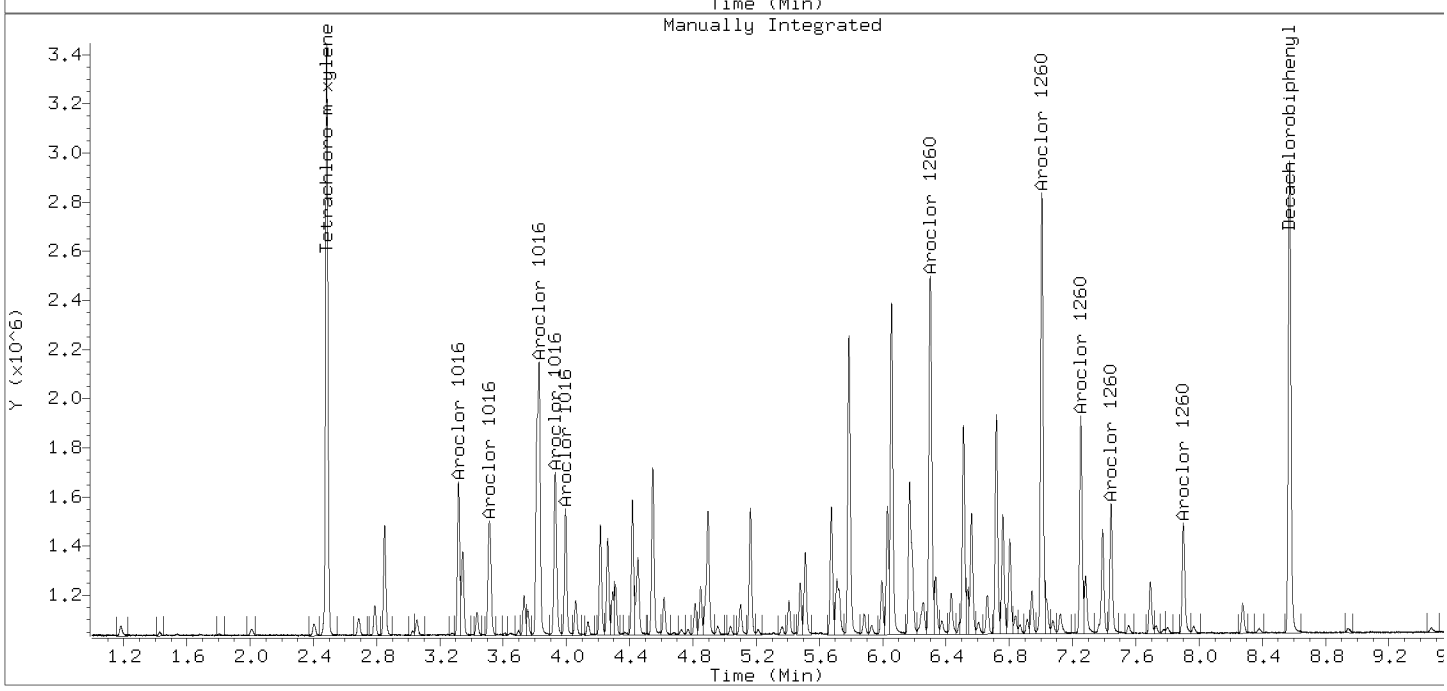
Column phase: ZB-1ms

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.

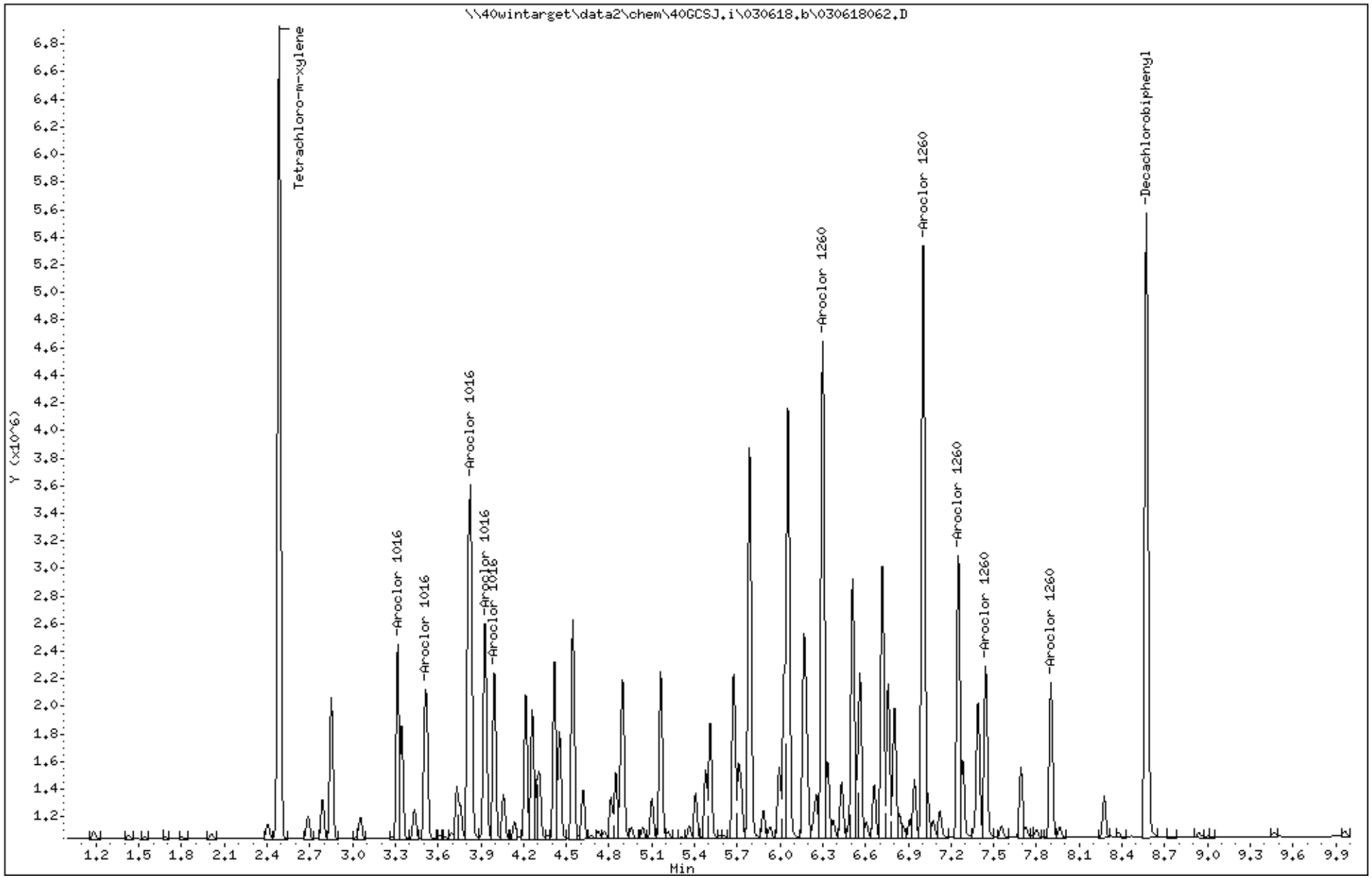
QC Flag Legend

Review Codes Legend

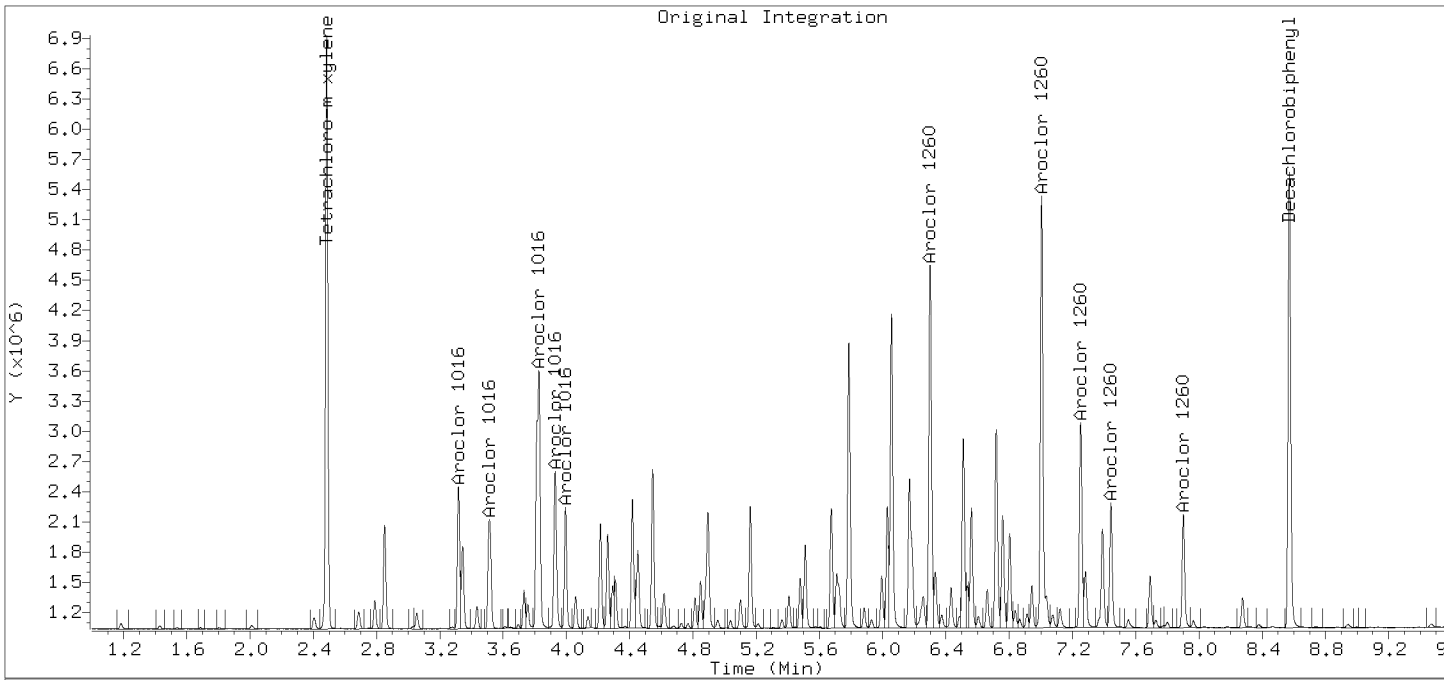
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

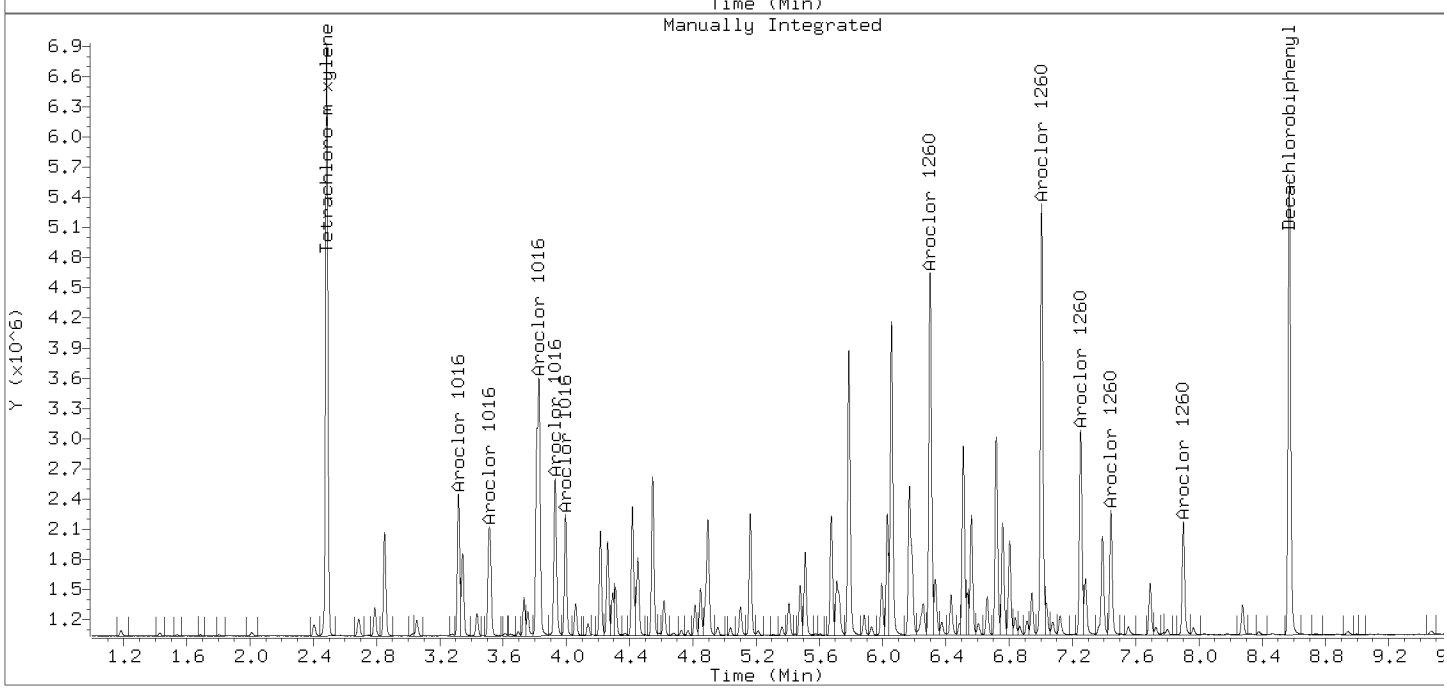
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

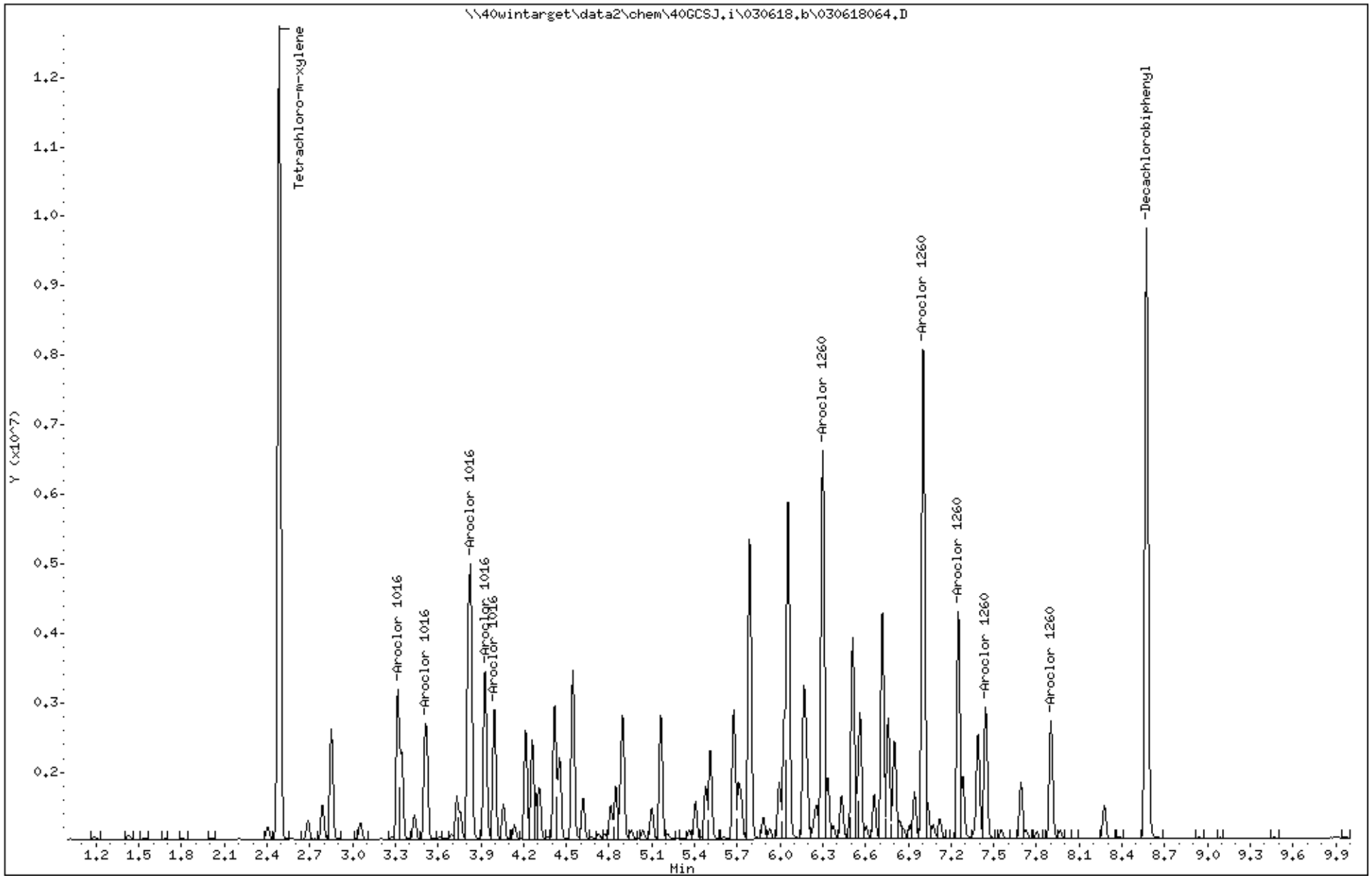
M - Compound response manually integrated.

Review Codes Legend

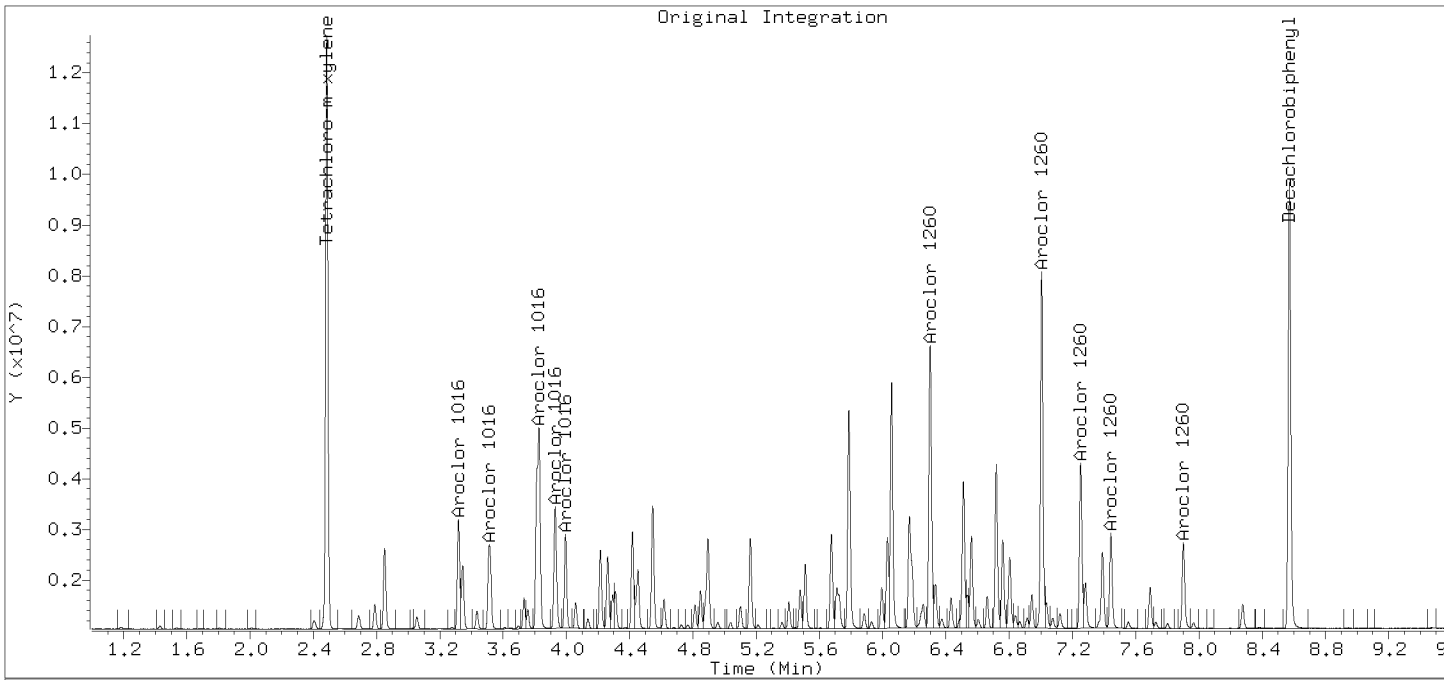
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

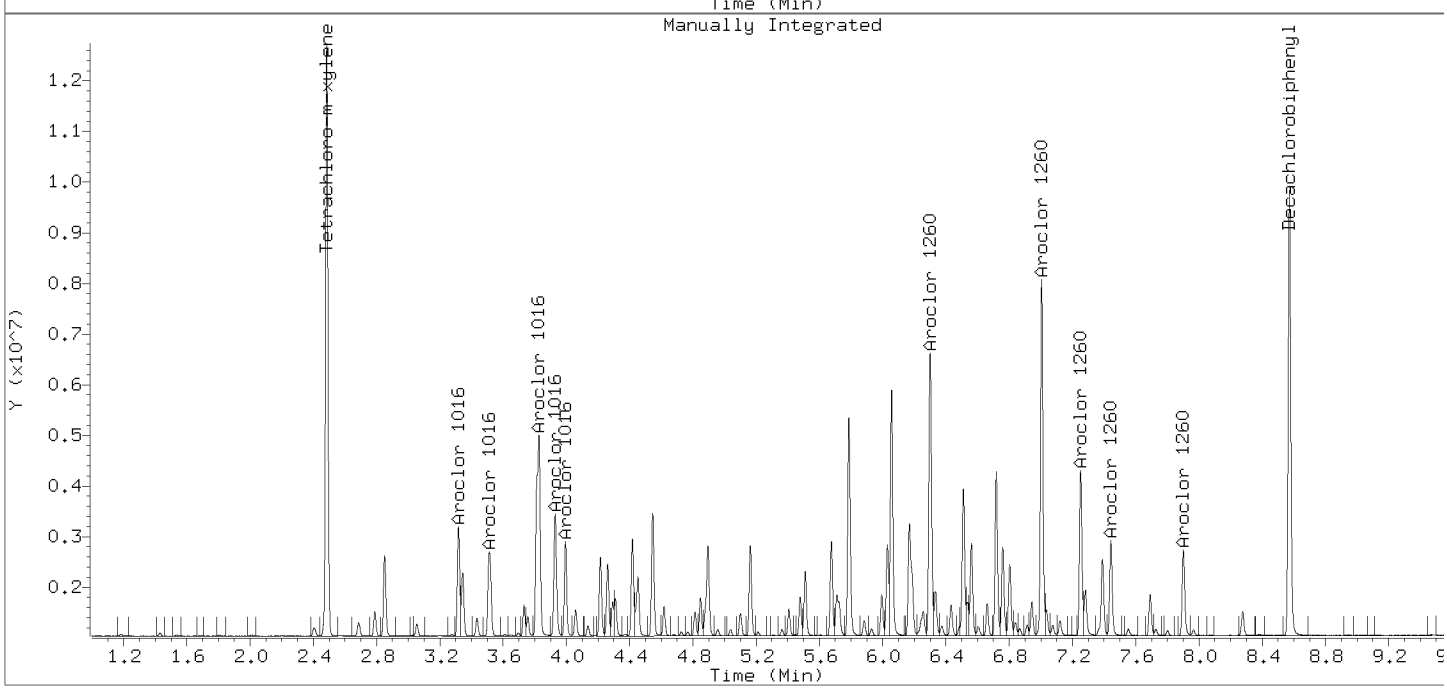
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Date : 06-MAR-2018 19:23
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

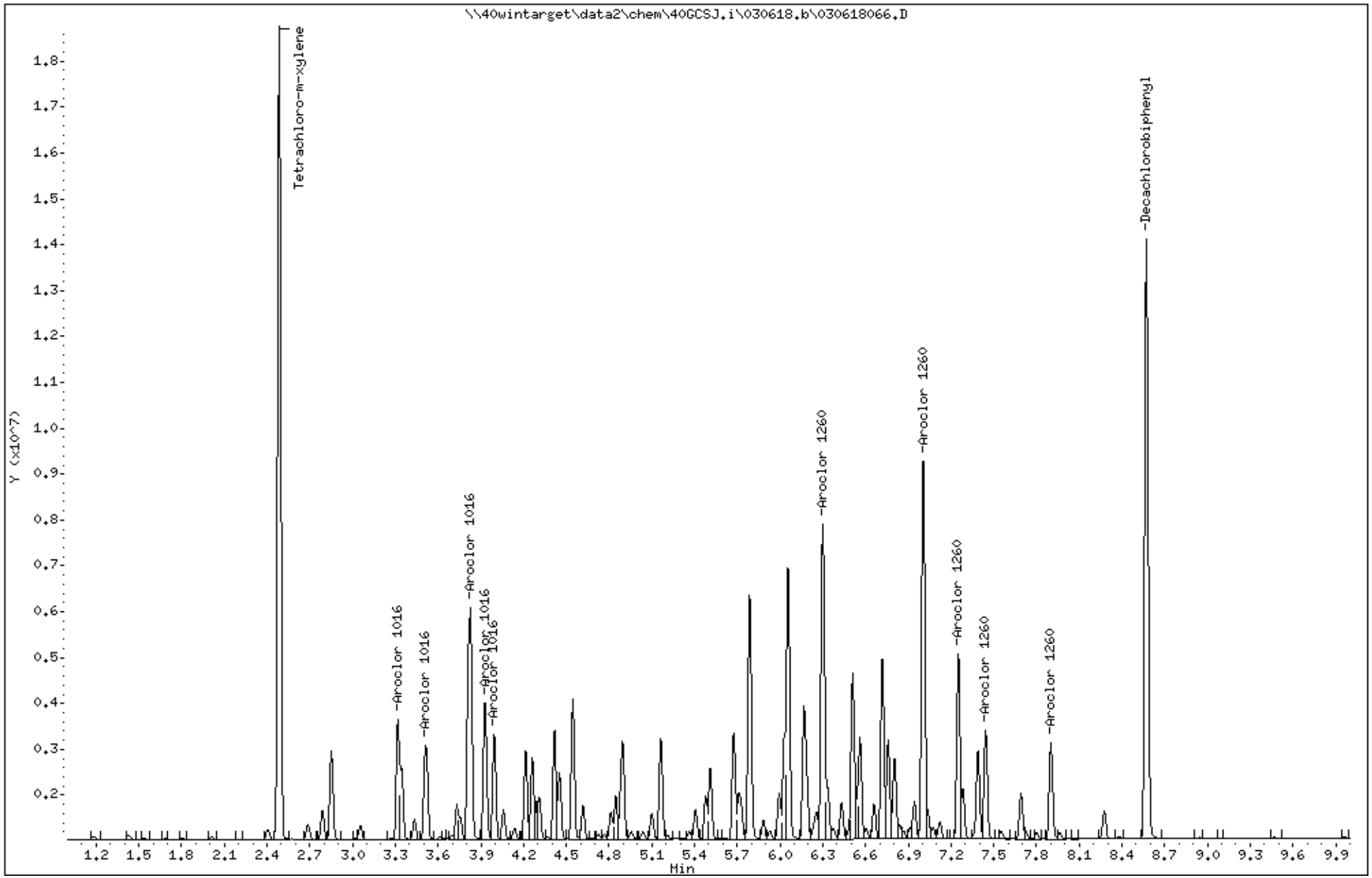
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

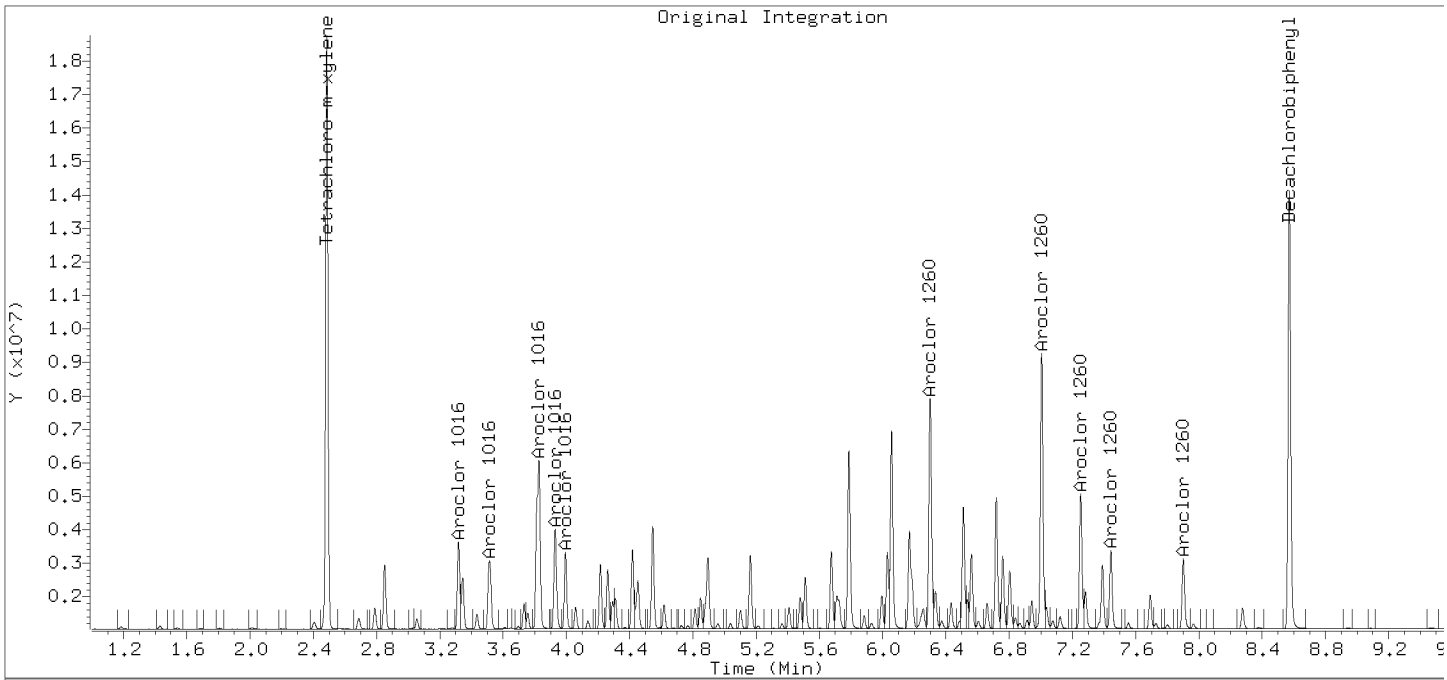
Operator: BLM

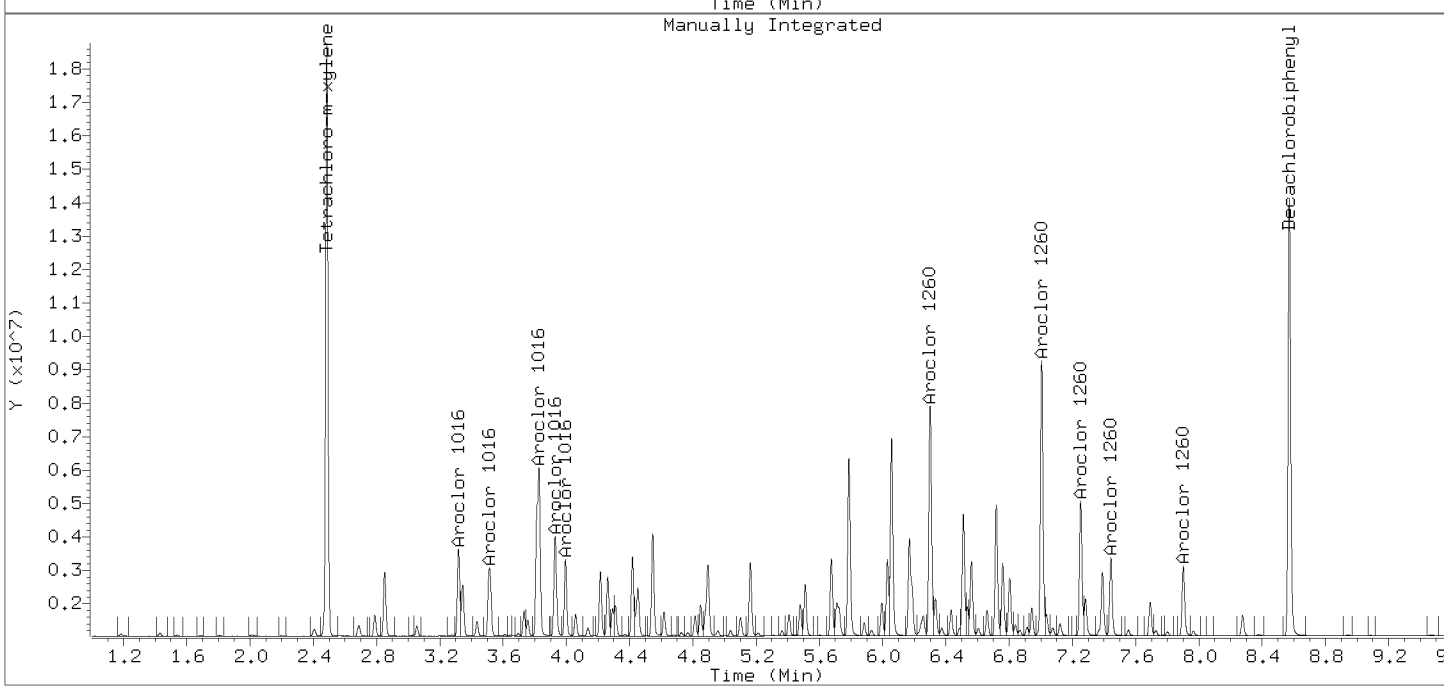
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

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

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40150294

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.: 40150294

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.: 40150294

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.: 40150294

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.: 40150294

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.

10823431CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/09/2018 Time: 13:23

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

Lab File ID: 030918.B\030918004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150294

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	4663196.00	-10.9269
Aroclor 1254	2	Averaged	5.406	5.374	5.442	4301054.45	3821256.00	-11.1554
Aroclor 1254	3	Averaged	5.51	5.476	5.544	7766063.85	6787724.00	-12.5976
Aroclor 1254	4	Averaged	6.025	5.993	6.061	4869683.55	4216994.00	-13.4031
Aroclor 1254	5	Averaged	6.298	6.265	6.333	6507103.75	5631826.00	-13.4511
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	95021220.0	-13.2701
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	113470880.	-7.9681

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

SAMPLE NO.

10823430CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/09/2018 Time: 16:33

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

Lab File ID: 030918.B\030918016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150294

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	3106602.00	0.8365
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3103200.00	0.1355
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	8915068.00	0.6013
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3811278.00	0.8215
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2547162.00	-2.1583
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	8949366.00	0.9818
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10140800.0	1.2625
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4960560.00	3.7817
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	2907852.00	-0.2490
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2673200.00	1.3061
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	108259680.	-1.1868
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123525280.	0.1867

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

SAMPLE NO.

10823429CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/09/2018 Time: 19:43

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

Lab File ID: 030918.B\030918028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150294

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	1021860.00	-1.8628
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	525732.000	-4.0360
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1382442.00	-0.0647
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1075252.00	-2.7598
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3305042.00	1.5250
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105912960.	-3.3288
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119269080.	-3.2654

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

SAMPLE NO.

10823432CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/09/2018 Time: 21:19

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

Lab File ID: 030918.B\030918034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150294

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	2662052.00	6.4811
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1390008.00	3.7488
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	4036090.00	7.6369
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1735178.00	8.0104
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1134462.00	3.9003
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	106825840.	-2.4956
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118763460.	-3.6754

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

SAMPLE NO.

10842790CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 13:19

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

Lab File ID: 032018.B\032018004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150294

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	2347046.00	-6.1191
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1273822.00	-4.9232
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3408346.00	-9.1041
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1458530.00	-9.2103
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	953732.000	-12.6520
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	94451220.0	-13.7904
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	110264740.	-10.5684

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

SAMPLE NO.

10842795CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40150294

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

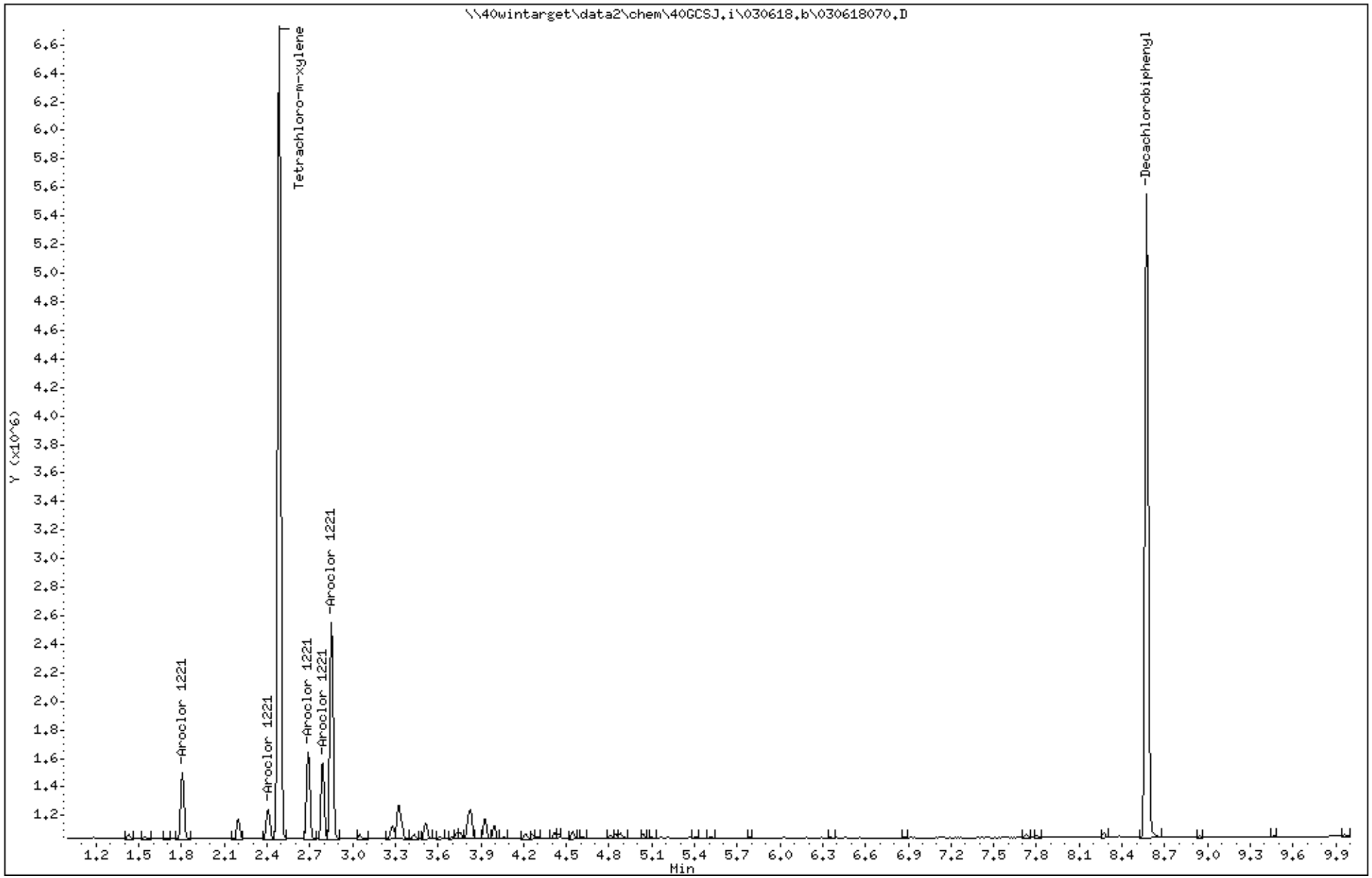
M - Compound response manually integrated.

Review Codes Legend

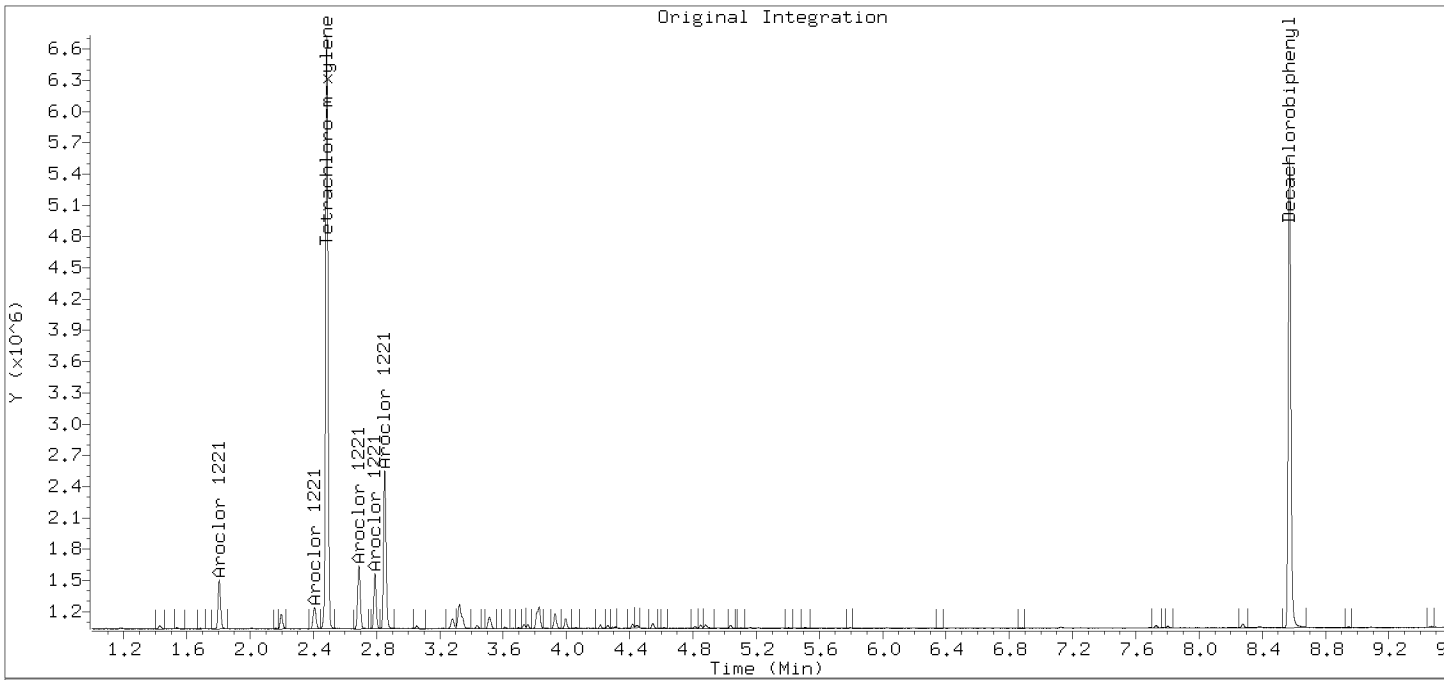
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

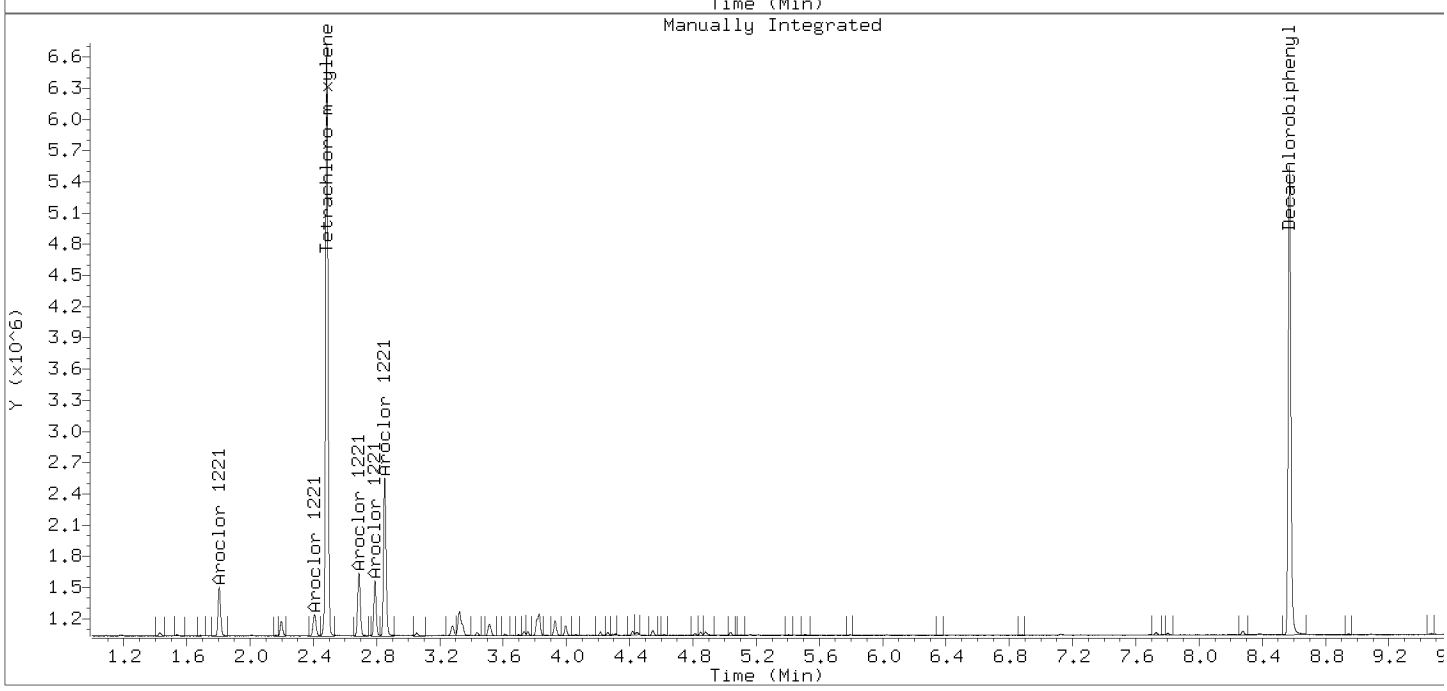
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:27

Client ID: 1242-ICV

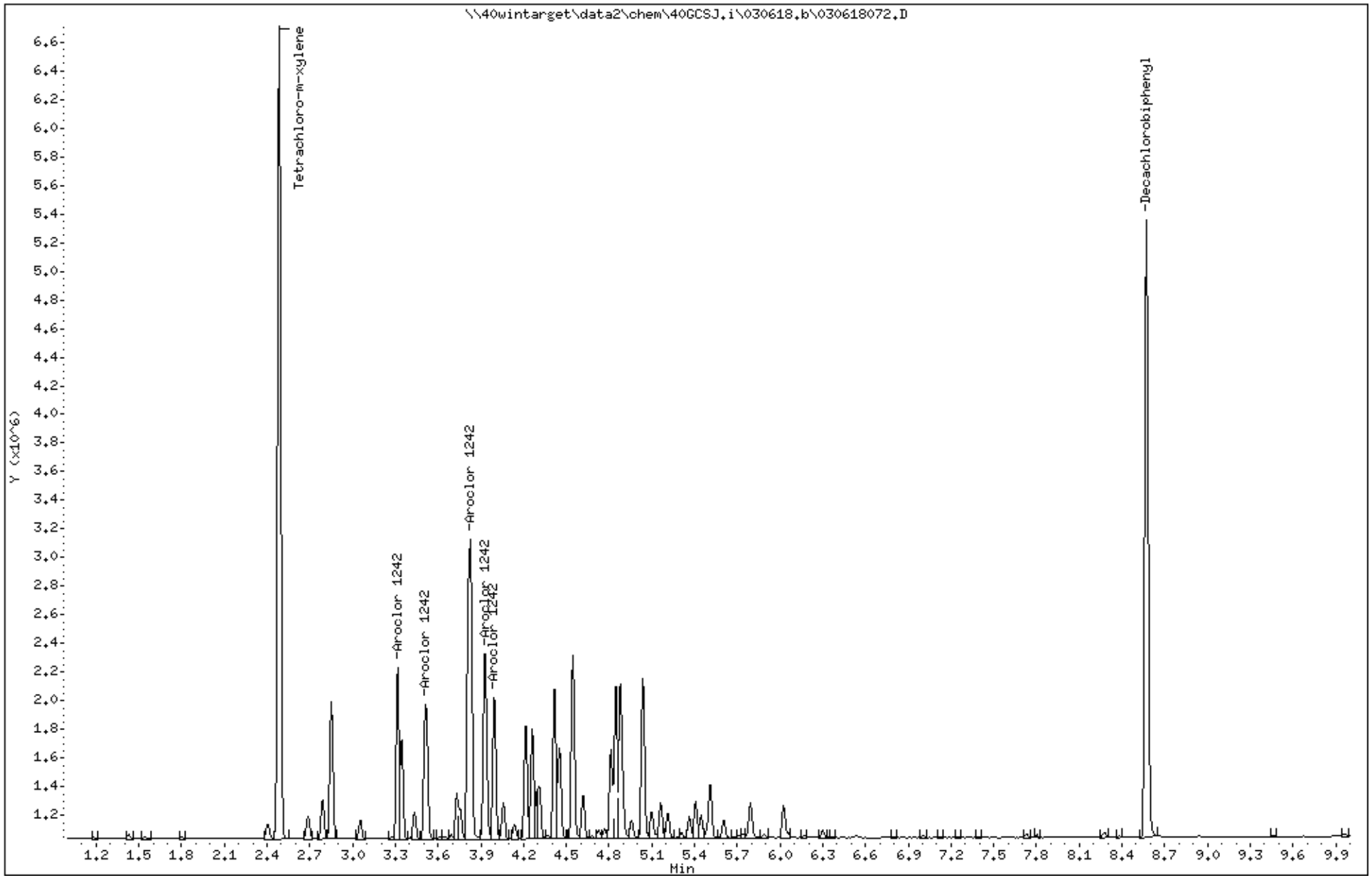
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

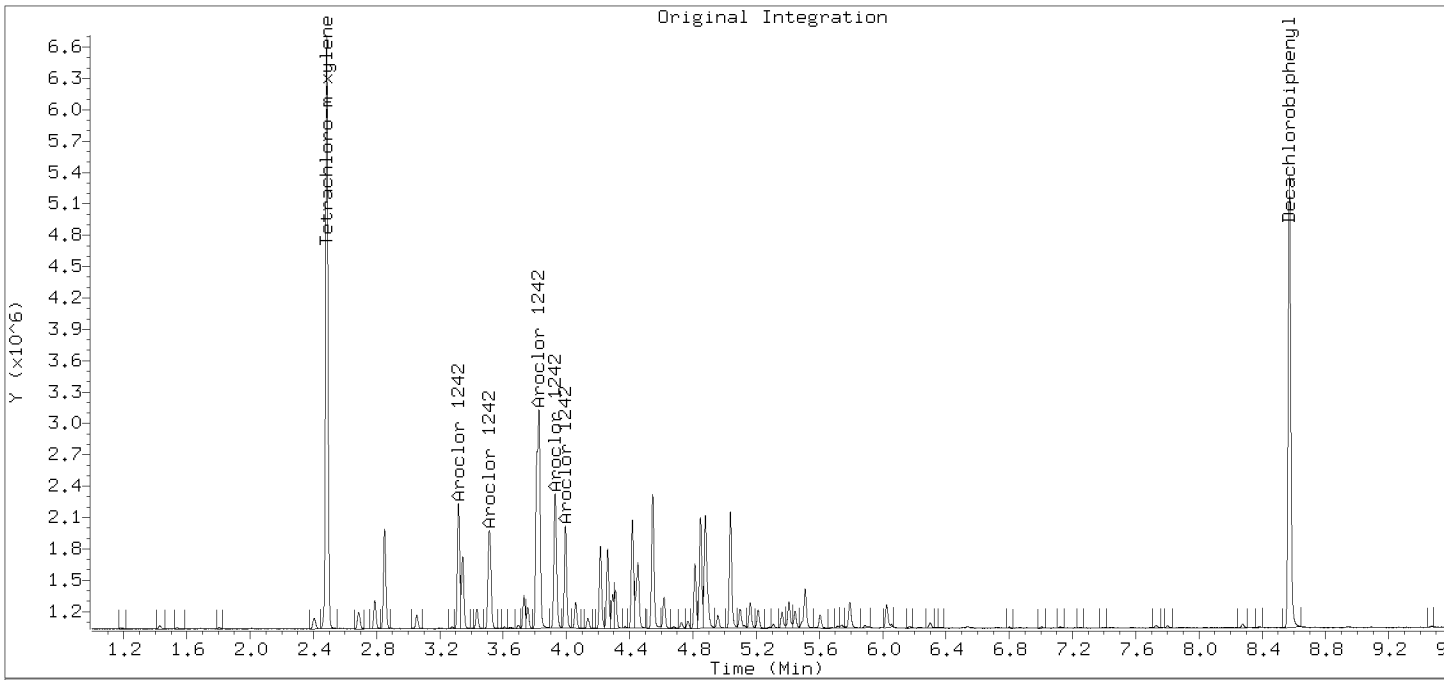
Operator: BLM

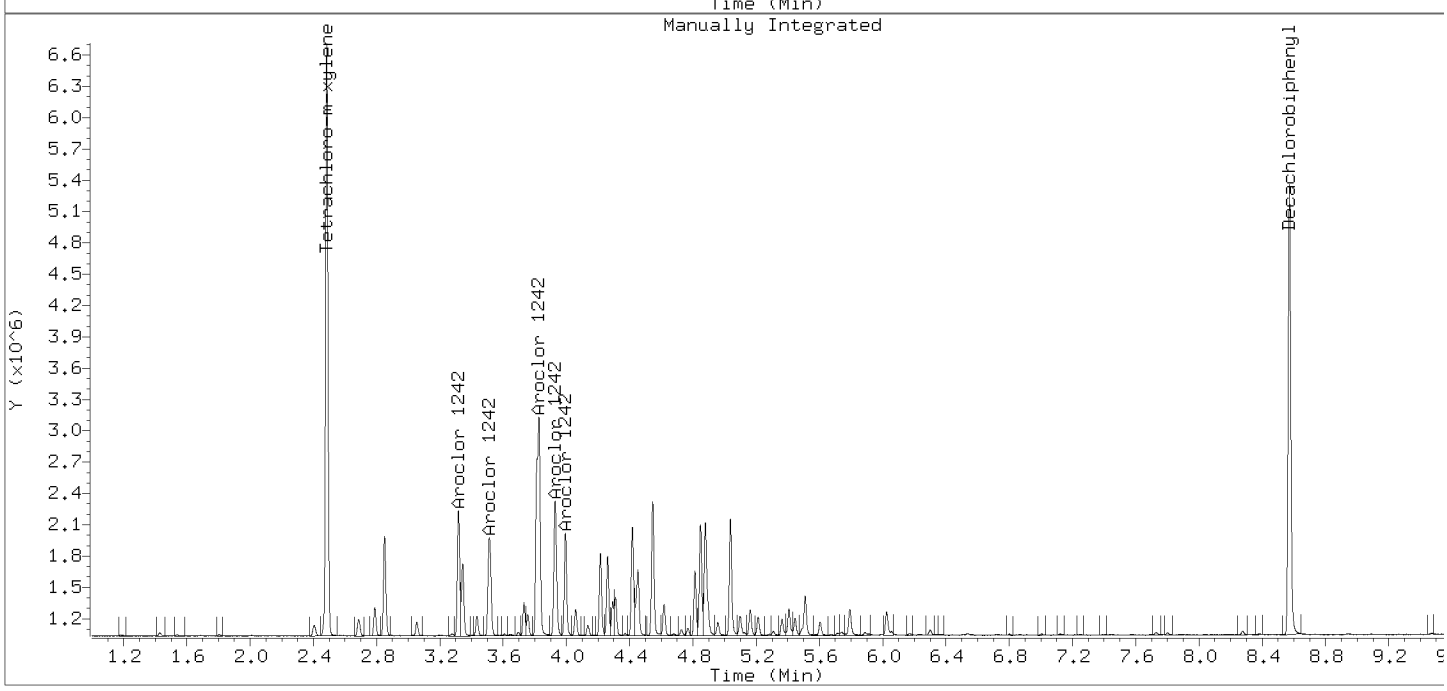
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

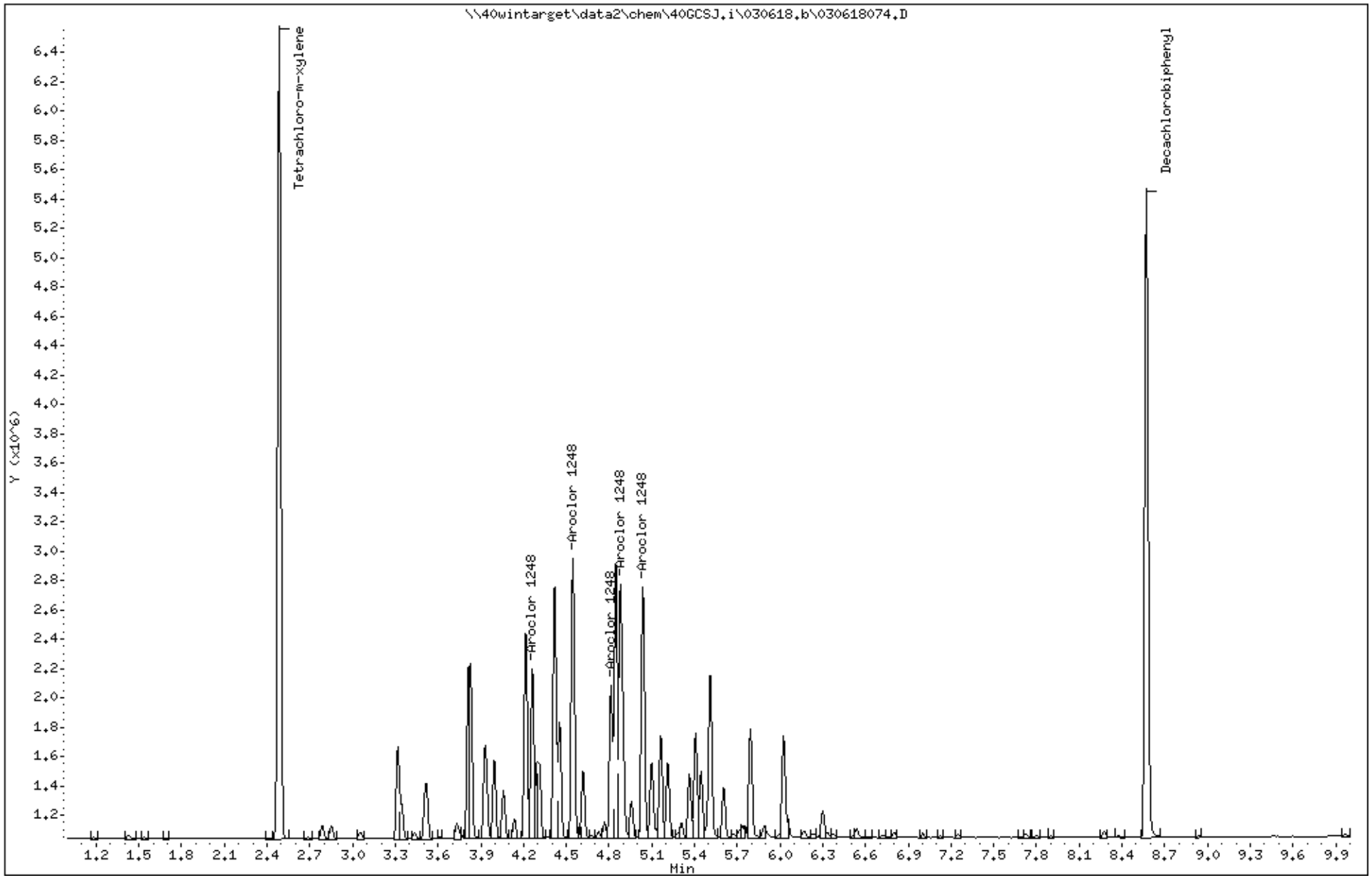
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

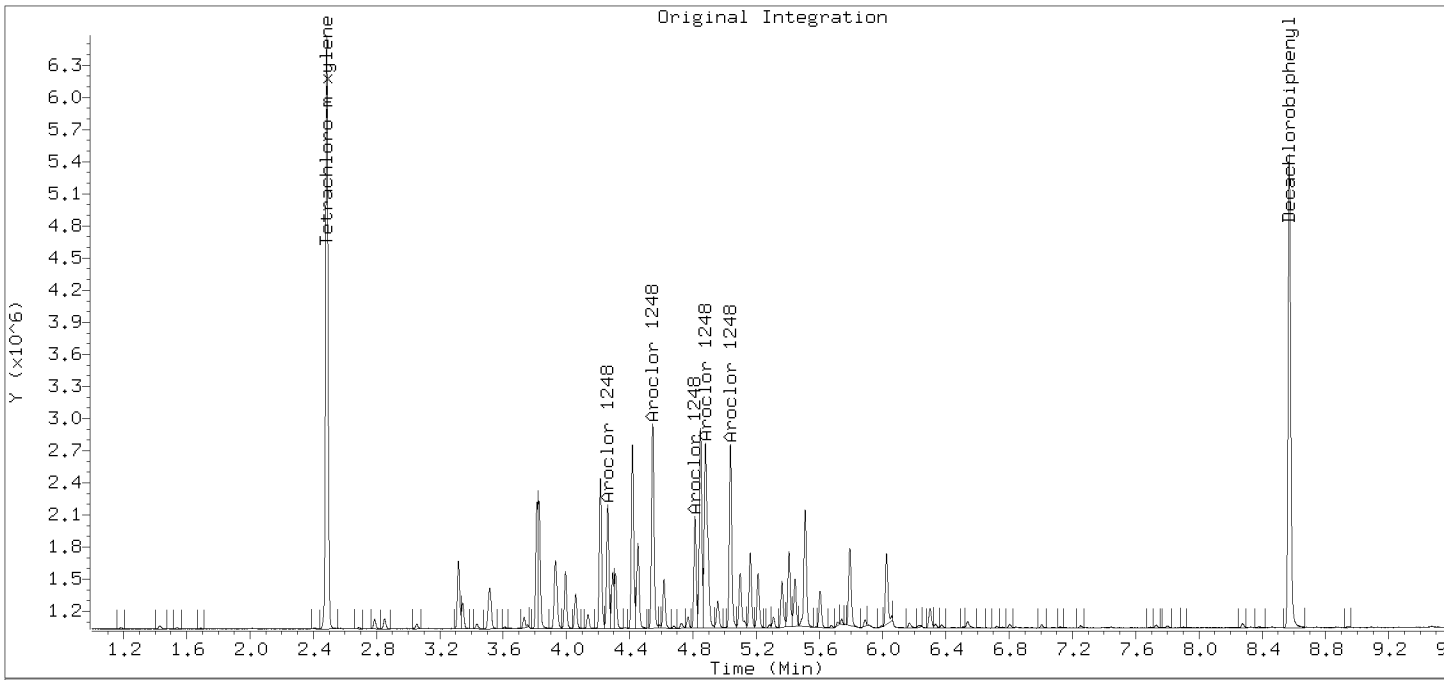
Operator: BLM

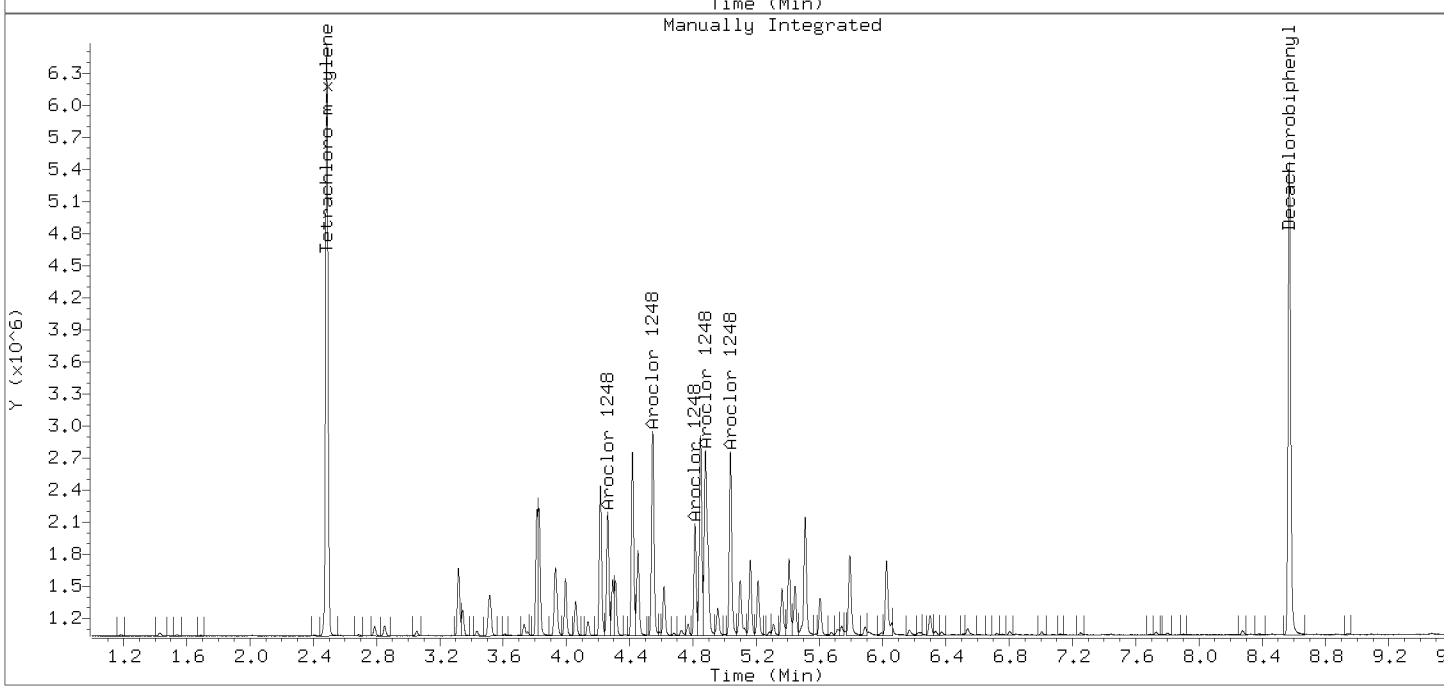
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

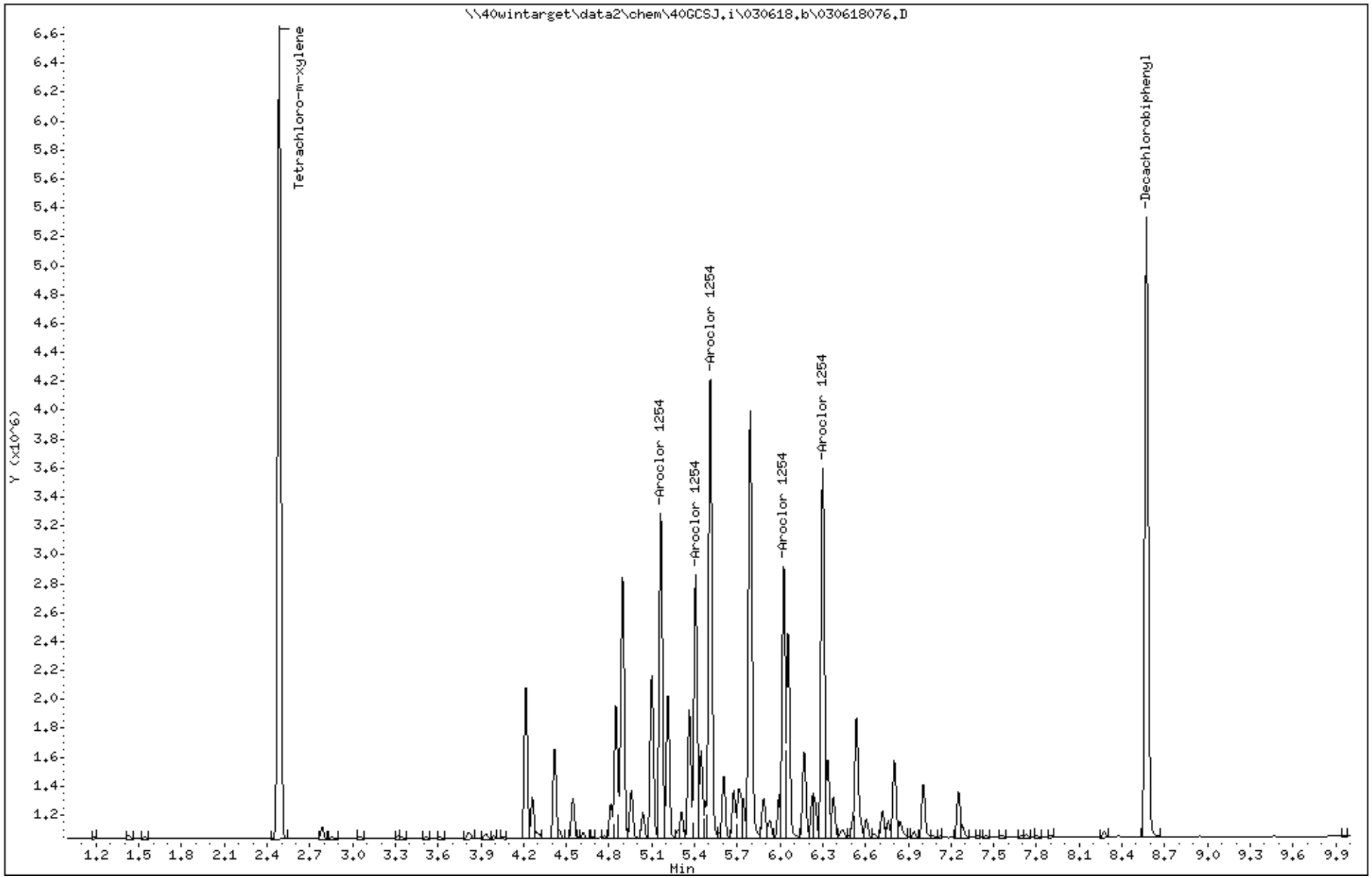
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

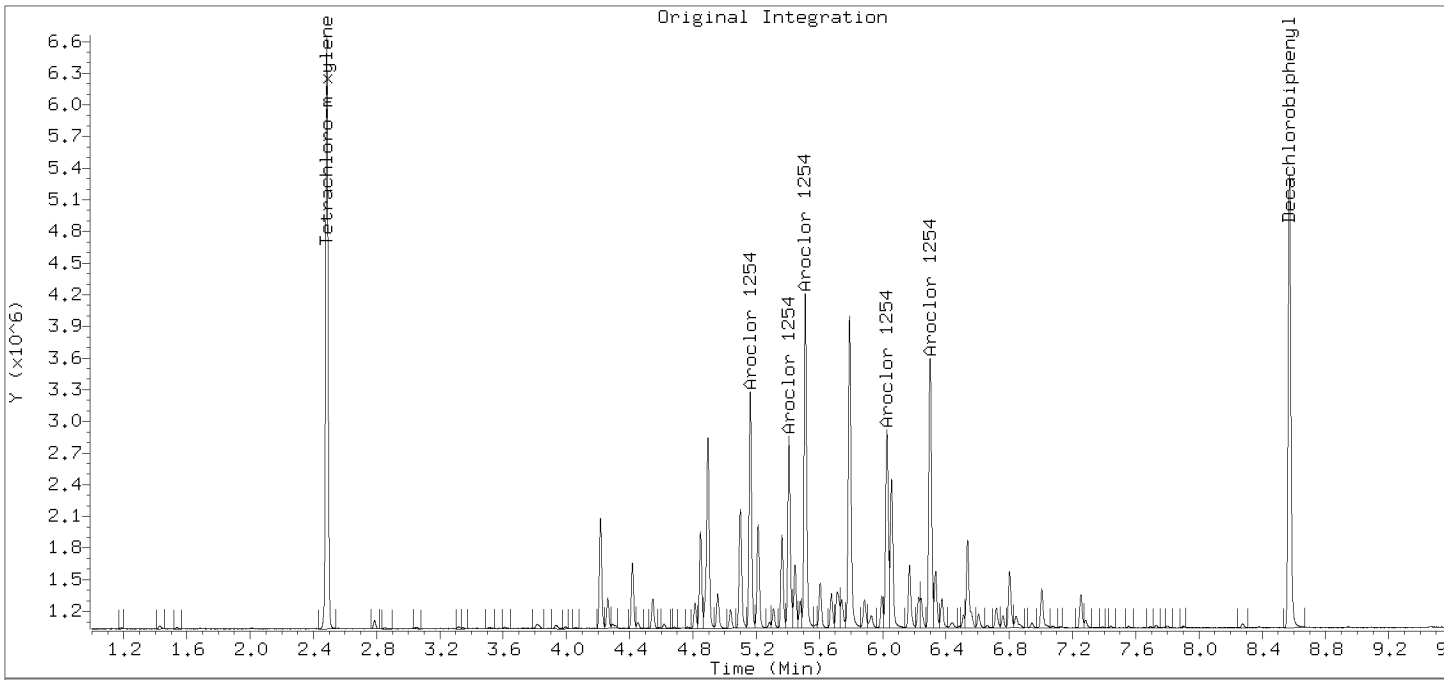
Operator: BLM

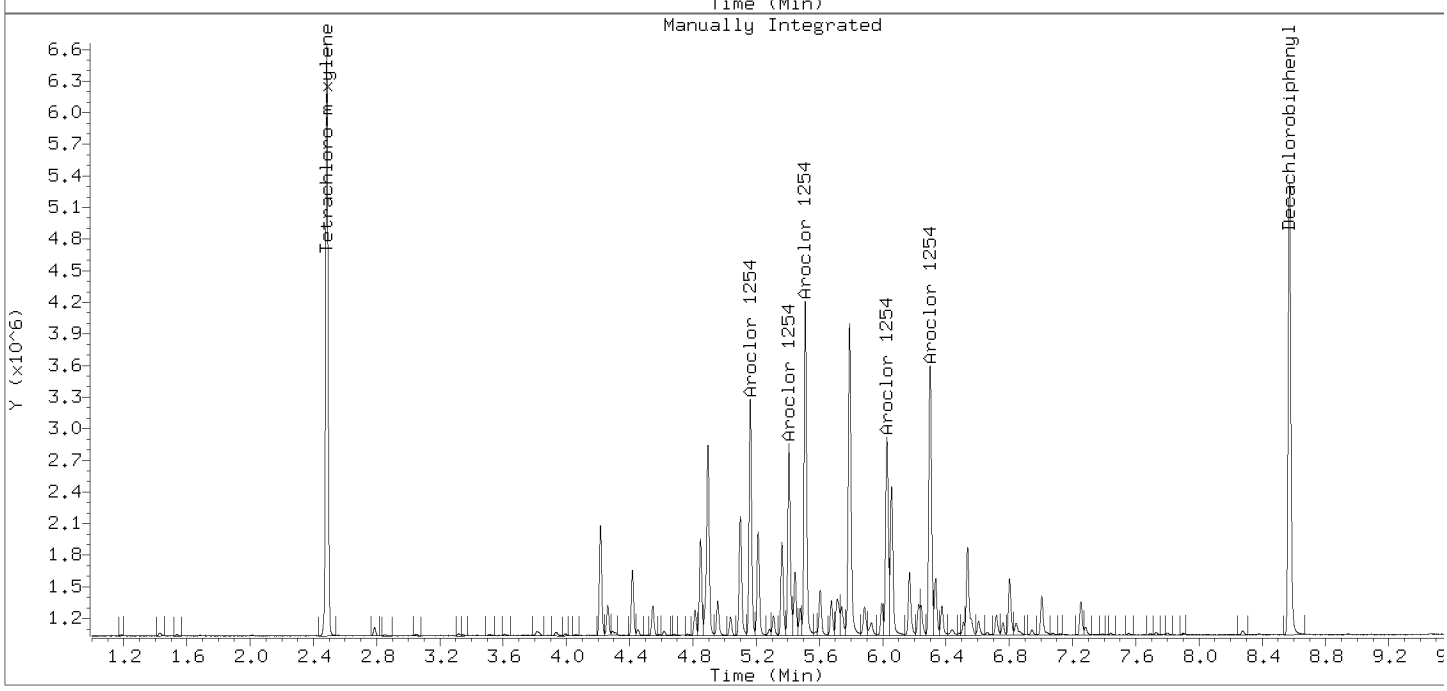
Column phase: ZB-1ms

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.

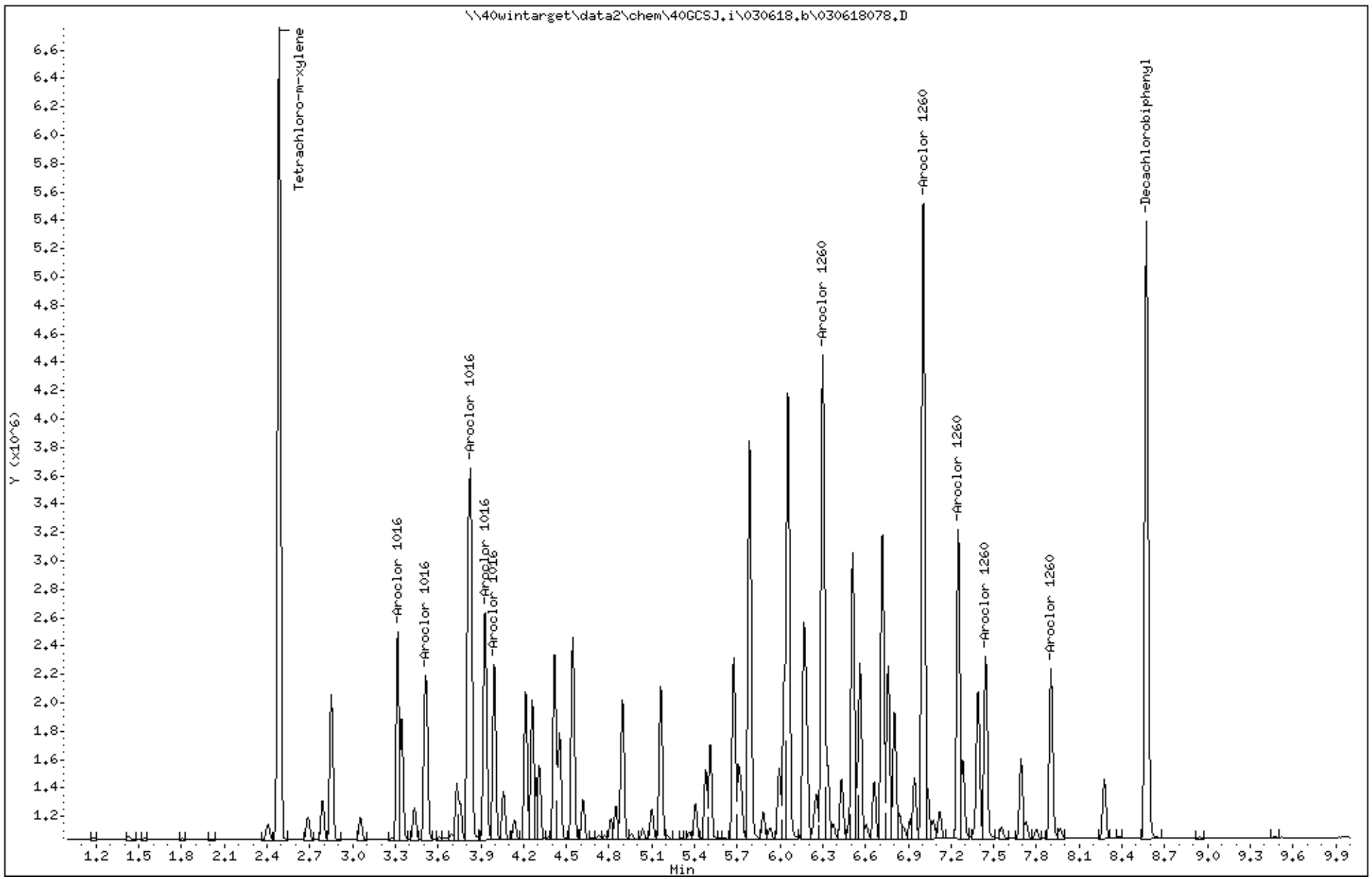
QC Flag Legend

Review Codes Legend

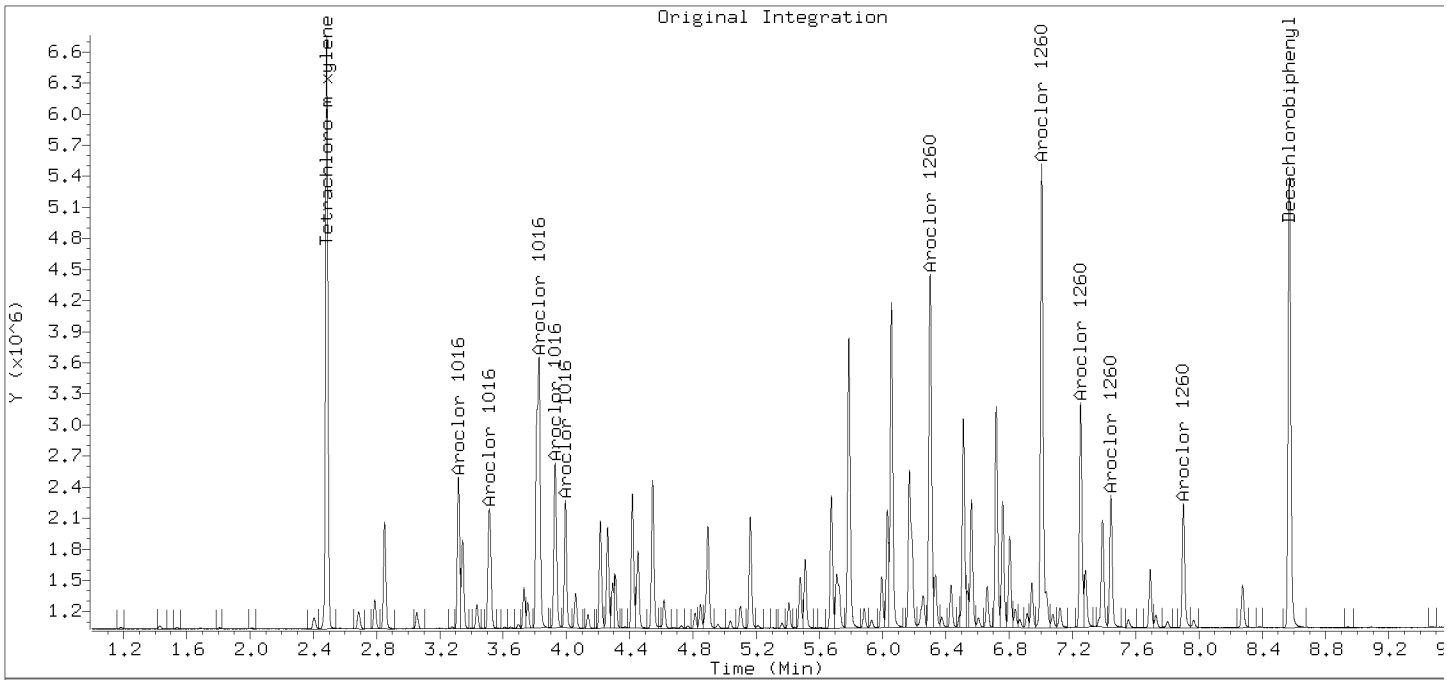
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

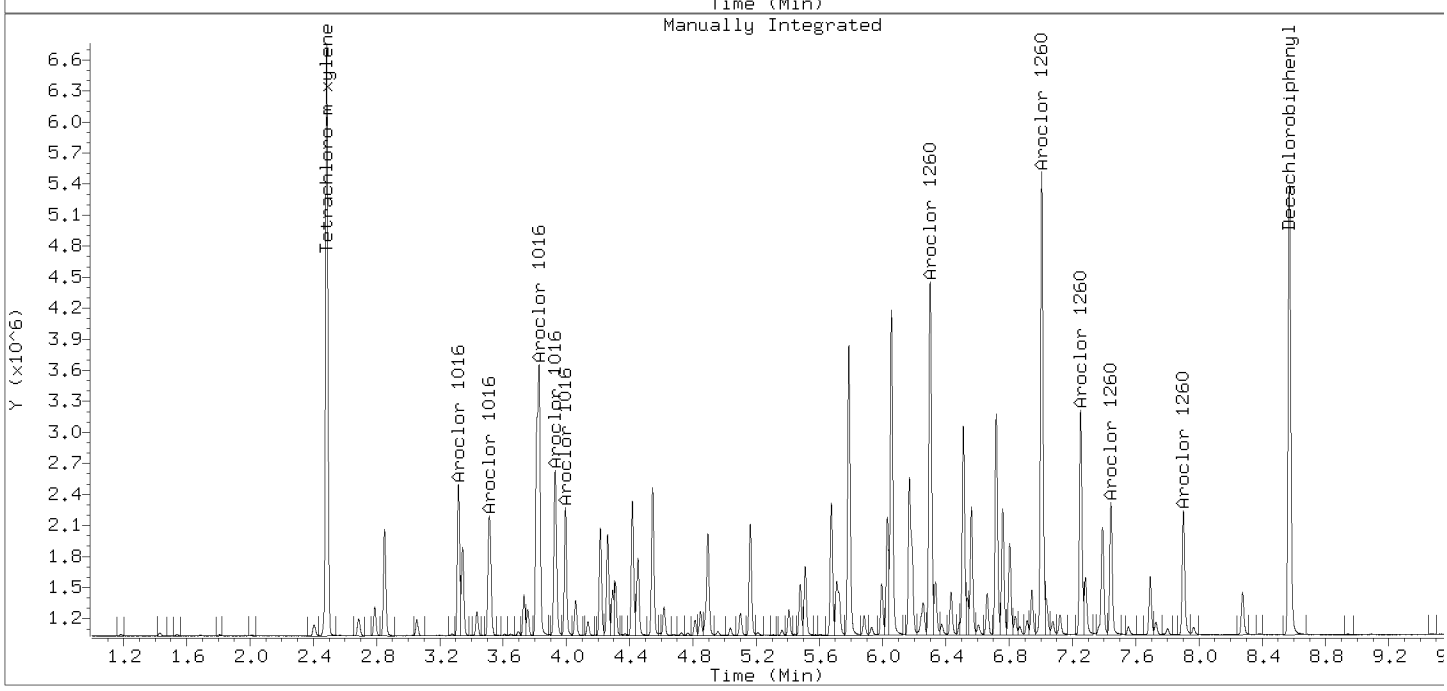
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\030918.b\030918004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 09-MAR-2018 13:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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
1.185	42317	29105	0.688	0.08		
1.430	30162	29903	0.991	0.06		
1.536	17888	14667	0.820	0.03		
1.686	20041	14822	0.740	0.04		
2.012	19701	17445	0.885	0.04		
2.485	5673544	5430035	0.957	12.43	$ 2 Tetrachloro-m-xylene	
2.787	81633	81373	0.997	0.17		
2.853	26735	17753	0.664	0.05		
3.032	13527	13598	1.005	0.02		
3.049	24567	19098	0.777	0.05		
3.319	33115	29778	0.899	0.07		
3.345	16546	16613	1.004	0.03		
3.509	34333	22545	0.657	0.07		
3.612	20839	16439	0.789	0.04		
3.813	87094	52036	0.597	0.18		
3.936	81938	47816	0.584	0.17		
3.994	53031	33807	0.637	0.11		
4.063	24972	17689	0.708	0.05		
4.215	1130800	1102246	0.975	2.40		
4.262	300395	296313	0.986	0.63		
4.293	50270	40682	0.809	0.10		
4.418	687876	672736	0.978	1.46		
4.452	71843	61539	0.857	0.15		
4.546	310603	288428	0.929	0.65		
4.591	14502	13473	0.929	0.03		
4.616	55579	50130	0.902	0.11		
4.685	19425	17146	0.883	0.04		
4.770	20783	17172	0.826	0.04		
4.814	249777	249961	1.001	0.53		
4.848	950095	916465	0.965	2.01		
4.895	2216111	1769606	0.799	4.70		
4.957	356795	328608	0.921	0.75		
5.037	203072	192799	0.949	0.43		
5.100	1301464	1149369	0.883	2.76		
5.163	2331598	2147187	0.921	4.95	7 Aroclor 1254	BA
5.213	1052646	982818	0.934	2.23		
5.285	56441	53037	0.940	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.310	197839	178596	0.903	0.42	
5.364	919562	867277	0.943	1.95	
5.407	1910628	1727239	0.904	4.05	7 Aroclor 1254
5.446	639568	587080	0.918	1.35	
5.479	247283	239762	0.970	0.52	
5.510	3393862	3099935	0.913	7.20	7 Aroclor 1254
5.605	471073	433926	0.921	1.00	
5.675	321508	301333	0.937	0.68	
5.712	485232	318264	0.656	1.03	
5.741	296659	243561	0.821	0.63	
5.791	3347057	2568248	0.767	7.10	
5.885	302490	240960	0.797	0.64	
5.929	163396	101592	0.622	0.34	
5.995	288096	283821	0.985	0.61	
6.026	2108497	1774044	0.841	4.47	7 Aroclor 1254
6.056	1529350	1319882	0.863	3.24	
6.170	613298	535698	0.873	1.30	
6.228	482778	256307	0.531	1.02	
6.299	2815913	2394913	0.850	5.98	7 Aroclor 1254
6.334	493199	443976	0.900	1.04	
6.375	287576	250246	0.870	0.61	
6.440	78550	43714	0.557	0.16	
6.510	114758	116875	1.018	0.24	
6.536	930545	732832	0.788	1.97	
6.605	134438	113425	0.844	0.28	
6.660	27174	21559	0.793	0.05	
6.719	200617	171575	0.855	0.42	
6.759	113670	105496	0.928	0.24	
6.803	504278	451888	0.896	1.07	
6.843	143767	94544	0.658	0.30	
6.943	53821	44333	0.824	0.11	
7.005	380290	308872	0.812	0.80	
7.074	16848	16505	0.980	0.03	
7.252	303185	272407	0.898	0.64	
7.283	66563	57847	0.869	0.14	
7.389	16081	16194	1.007	0.03	
7.445	20418	18977	0.929	0.04	
7.553	17680	14979	0.847	0.03	
7.693	14408	14004	0.972	0.03	
7.728	26626	22291	0.837	0.05	
7.779	12232	12205	0.998	0.02	
7.803	20657	17230	0.834	0.04	
7.901	19005	17279	0.909	0.04	
8.274	45370	37885	0.835	0.09	
8.375	12758	12714	0.997	0.02	
8.572	4751062	4113330	0.866	10.09	$ 12 Decachlorobiphenyl
8.945	15390	12221	0.794	0.03	
9.467	16554	12711	0.768	0.03	
9.598	10161	10431	1.027	0.02	
9.620	13538	9529	0.704	0.02	
9.961	9448	7898	0.836	0.02	
	47086814	41322647		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918004.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 09-MAR-2018 13:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	5673544	0.05000	0.046			
7 Aroclor 1254						CAS #: 11097-69-1		
5.162	5.162	0.000	2331598	0.50000	0.44	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1910628	0.50000	0.44	0.00- 20.00	81.95	BA
5.510	5.510	0.000	3393862	0.50000	0.44	0.00- 20.00	145.56	BA
6.025	6.027	-0.002	2108497	0.50000	0.43	0.00- 20.00	90.43	BA
6.298	6.299	-0.001	2815913	0.50000	0.43	0.00- 20.00	120.77	BA
Average of Peak Amounts =					0.43600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	4751061	0.05000	0.043			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

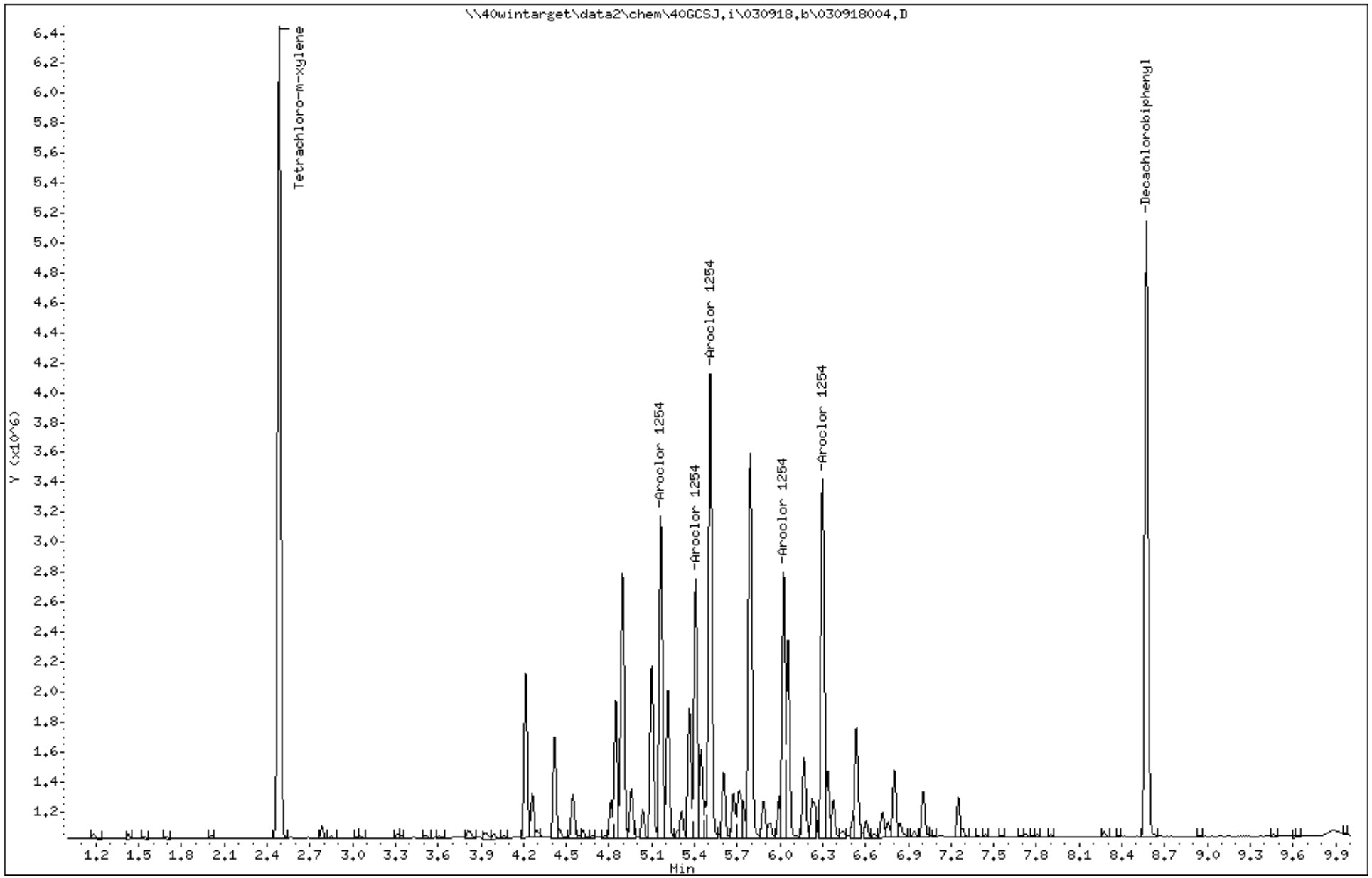
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918004.D
Date : 09-MAR-2018 13:23
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i

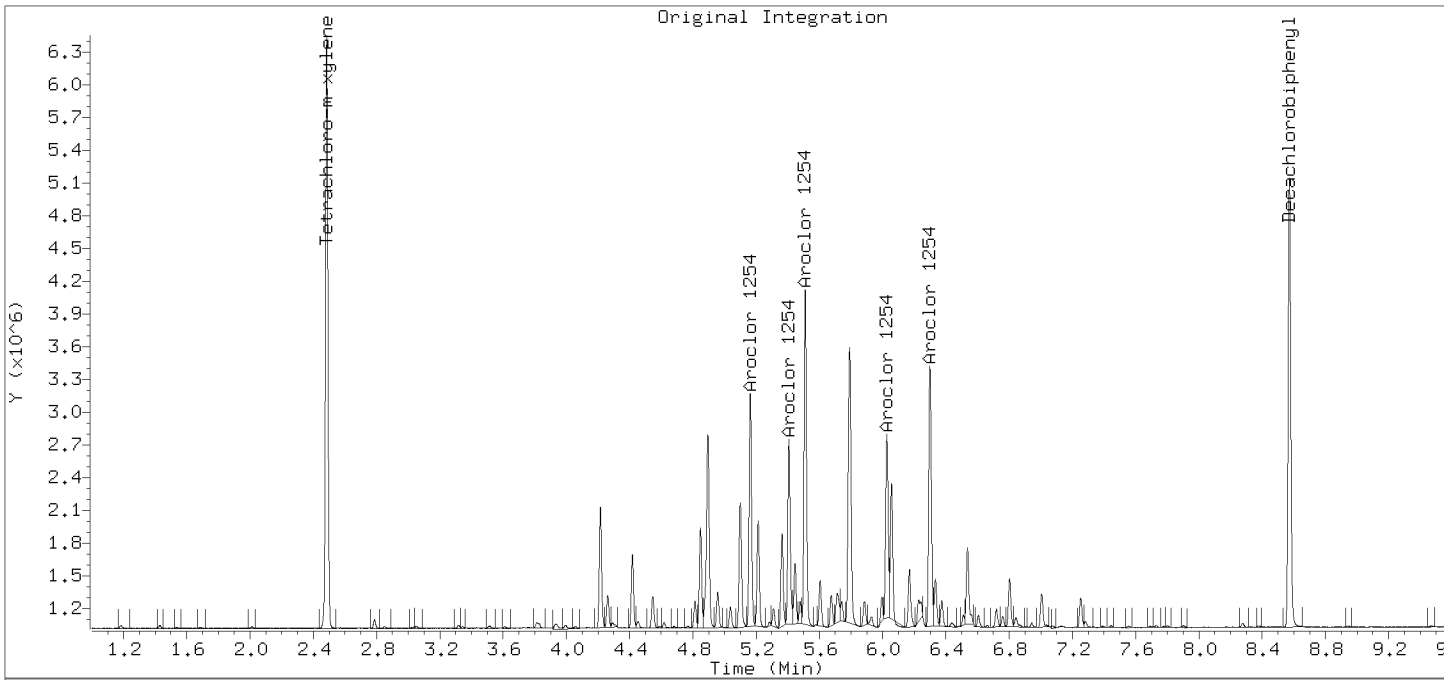
Operator: BLM

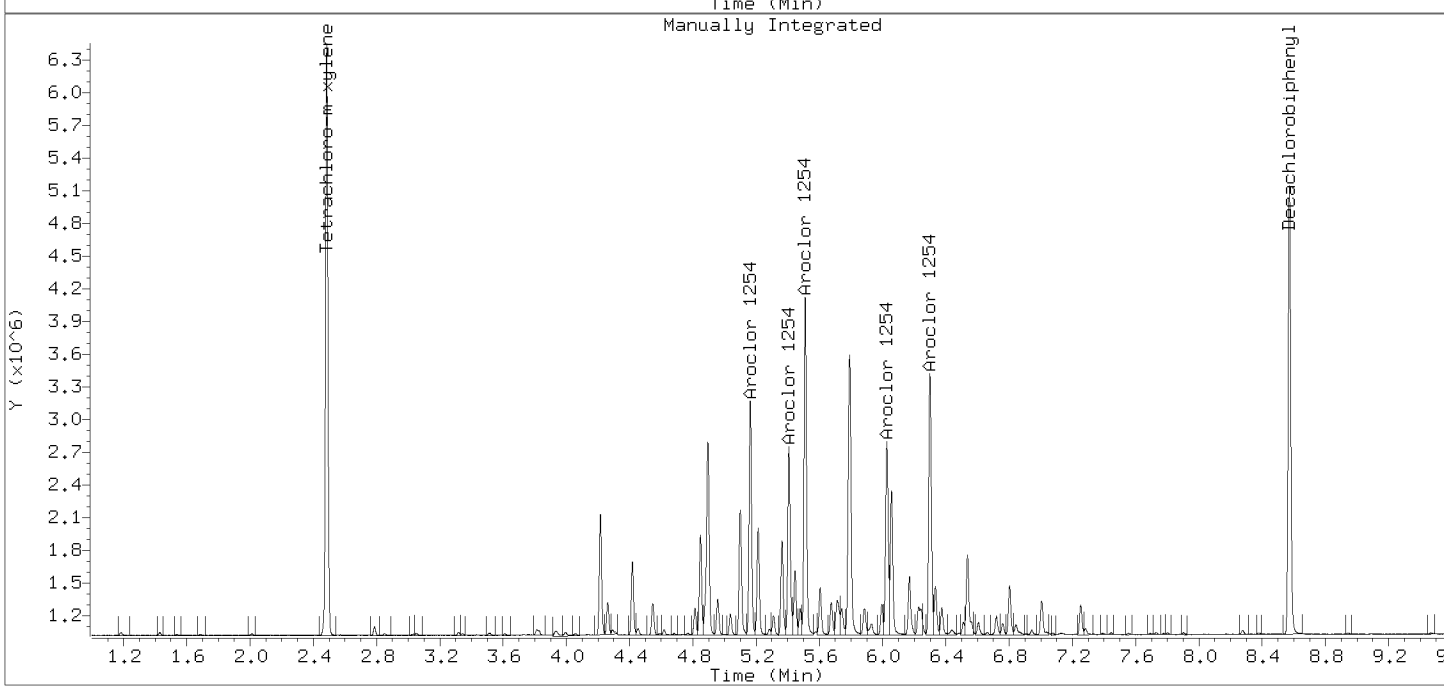
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918004.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 09-MAR-2018 13:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2285967	2331598	BA
Aroclor 1254	2285967	2331598	BA
Aroclor 1254	2285967	2331598	BA
Aroclor 1254	2285967	2331598	BA
Aroclor 1254	2285967	2331598	BA
Tetrachloro-m-xylene	5673544	5673544	
Decachlorobiphenyl	4751061	4751061	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 09-MAR-2018 16:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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
1.184	28111	22215	0.790	0.03		
1.429	37661	32314	0.858	0.04		
1.538	13850	14697	1.061	0.01		
1.685	21947	20394	0.929	0.02		
1.804	16955	15528	0.916	0.01		
2.005	10940	9897	0.905	0.01		
2.404	152688	114369	0.749	0.17		
2.485	6176264	5927710	0.960	7.77	$ 2 Tetrachloro-m-xylene	
2.570	9601	7543	0.786	0.01		
2.687	205306	170093	0.828	0.24		
2.789	309221	289655	0.937	0.36		
2.851	1129469	1053610	0.933	1.32		
3.054	169236	156631	0.926	0.19		
3.277	26573	20510	0.772	0.03		
3.318	1553302	1453512	0.936	1.81	5 Aroclor 1016	BA
3.344	877257	832402	0.949	1.02		
3.435	250212	227348	0.909	0.29		
3.513	1551600	1122193	0.723	1.81	5 Aroclor 1016	BA
3.610	21907	20295	0.926	0.02		
3.648	27050	17424	0.644	0.03		
3.695	43267	43127	0.997	0.05		
3.732	394400	396234	1.005	0.46		
3.756	272987	249655	0.915	0.31		
3.826	4457535	2638276	0.592	5.22	5 Aroclor 1016	BA
3.929	1905640	1581391	0.830	2.23	5 Aroclor 1016	BA
3.994	1273581	1274184	1.000	1.49	5 Aroclor 1016	BA
4.059	362133	331009	0.914	0.42		
4.137	142419	129342	0.908	0.16		
4.215	1109104	1072155	0.967	1.29		
4.261	999477	956763	0.957	1.17		
4.292	415664	431514	1.038	0.48		
4.310	511100	492437	0.963	0.59		
4.369	32822	25562	0.779	0.03		
4.417	1387463	1308598	0.943	1.62		
4.453	1015485	774508	0.763	1.18		
4.546	1751753	1642249	0.937	2.05		
4.592	16970	22062	1.300	0.01		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	393864	375731	0.954	0.46	
4.680	25162	20786	0.826	0.02	
4.727	64936	55440	0.854	0.07	
4.769	56041	52538	0.937	0.06	
4.814	326618	314652	0.963	0.38	
4.848	501348	499989	0.997	0.58	
4.895	1596862	1162194	0.728	1.87	
4.957	97973	80913	0.826	0.11	
5.038	92265	83785	0.908	0.10	
5.100	332470	297222	0.894	0.38	
5.163	1320874	1210116	0.916	1.54	
5.212	52743	47229	0.895	0.06	
5.309	17775	14199	0.799	0.02	
5.362	92082	82831	0.900	0.10	
5.408	356174	338720	0.951	0.41	
5.445	14931	17256	1.156	0.01	
5.478	522973	495202	0.947	0.61	
5.509	912964	853022	0.934	1.06	
5.575	12043	10734	0.891	0.01	
5.604	16836	13524	0.803	0.01	
5.676	1332607	1275184	0.957	1.56	
5.710	958116	530115	0.553	1.12	
5.787	3292942	2889745	0.878	3.85	
5.882	221316	204678	0.925	0.25	
5.930	101889	85777	0.842	0.11	
5.994	560117	529731	0.946	0.65	
6.030	1266806	1231154	0.972	1.48	
6.056	3645175	3202944	0.879	4.26	
6.169	2372318	1524794	0.643	2.77	
6.256	525375	317350	0.604	0.61	
6.299	4474684	3771293	0.843	5.24	8 Aroclor 1260
6.334	612140	565488	0.924	0.71	
6.375	147217	123185	0.837	0.17	
6.434	445319	400117	0.898	0.52	
6.487	100977	119184	1.180	0.11	
6.511	2194810	1987650	0.906	2.57	
6.536	398196	445586	1.119	0.46	
6.561	1345867	1210723	0.900	1.57	
6.605	139267	124375	0.893	0.16	
6.661	422034	389895	0.924	0.49	
6.719	2337817	2144016	0.917	2.73	
6.759	1295846	1210385	0.934	1.51	
6.803	1093976	975015	0.891	1.28	
6.839	192129	168372	0.876	0.22	
6.866	93022	84416	0.907	0.10	
6.912	147072	139470	0.948	0.17	
6.943	464740	432172	0.930	0.54	
7.004	5070401	4621579	0.911	5.93	8 Aroclor 1260
7.035	328254	305865	0.932	0.38	
7.075	145451	126636	0.871	0.17	
7.122	212454	186839	0.879	0.24	
7.214	11963	12022	1.005	0.01	
7.251	2480281	2241599	0.904	2.90	8 Aroclor 1260
7.282	652762	589677	0.903	0.76	
7.389	1218285	1062528	0.872	1.42	
7.443	1453927	1287338	0.885	1.70	8 Aroclor 1260
7.552	111280	93057	0.836	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.691	595821	558385	0.937	0.69	
7.728	84660	70475	0.832	0.09	
7.801	70653	50781	0.719	0.08	
7.901	1336601	1219435	0.912	1.56	8 Aroclor 1260
7.965	96097	77183	0.803	0.11	
8.274	348943	296560	0.850	0.40	
8.378	17826	12941	0.726	0.02	
8.572	5412985	4708970	0.870	6.33	$ 12 Decachlorobiphenyl
8.941	16150	11649	0.721	0.01	
9.081	10530	8845	0.840	0.01	
9.472	21554	15951	0.740	0.02	
9.965	23054	15845	0.687	0.02	
	85389586	74580463		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918016.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 09-MAR-2018 16:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	6176264	0.05000	0.050			
5 Aroclor 1016						CAS #: 12674-11-2		
3.317	3.318	-0.001	1553301	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1551600	0.50000	0.50	0.00- 20.00	99.89	BA
3.826	3.826	0.000	4457534	0.50000	0.50	0.00- 20.00	286.97	BA
3.928	3.929	-0.001	1905639	0.50000	0.50	0.00- 20.00	122.68	BA
3.993	3.994	-0.001	1273581	0.50000	0.49	0.00- 20.00	81.99	BA
Average of Peak Amounts =					0.49800			
8 Aroclor 1260						CAS #: 11096-82-5		
6.299	6.300	-0.001	4474683	0.50000	0.50	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5070400	0.50000	0.51	0.00- 20.00	113.31	BA
7.251	7.251	0.000	2480280	0.50000	0.52	0.00- 20.00	55.43	BA
7.442	7.443	-0.001	1453926	0.50000	0.50	0.00- 20.00	32.49	BA
7.900	7.901	-0.001	1336600	0.50000	0.51	0.00- 20.00	29.87	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5412984	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918016.D

Date : 09-MAR-2018 16:33

Client ID: 1660-CCV

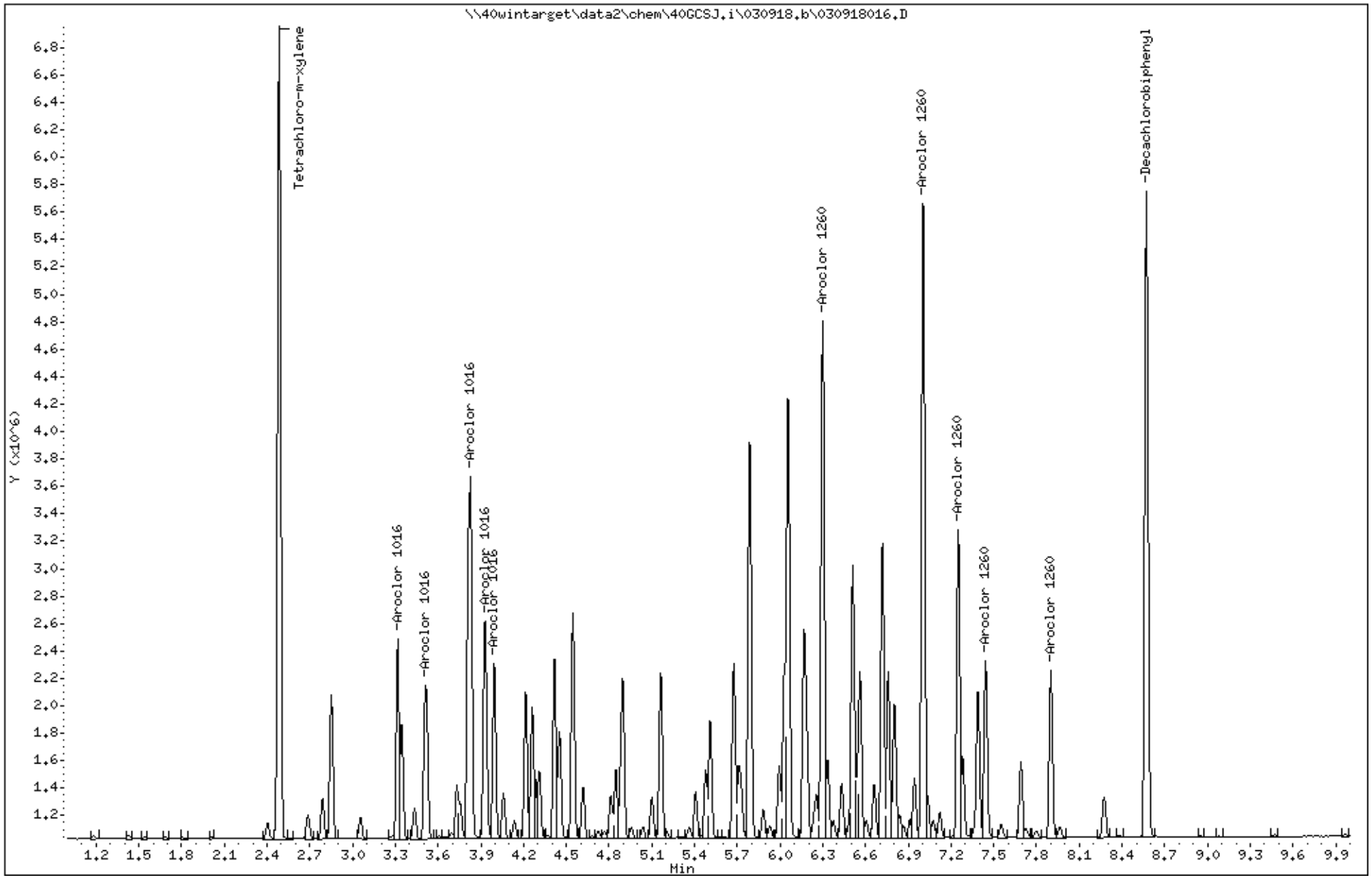
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

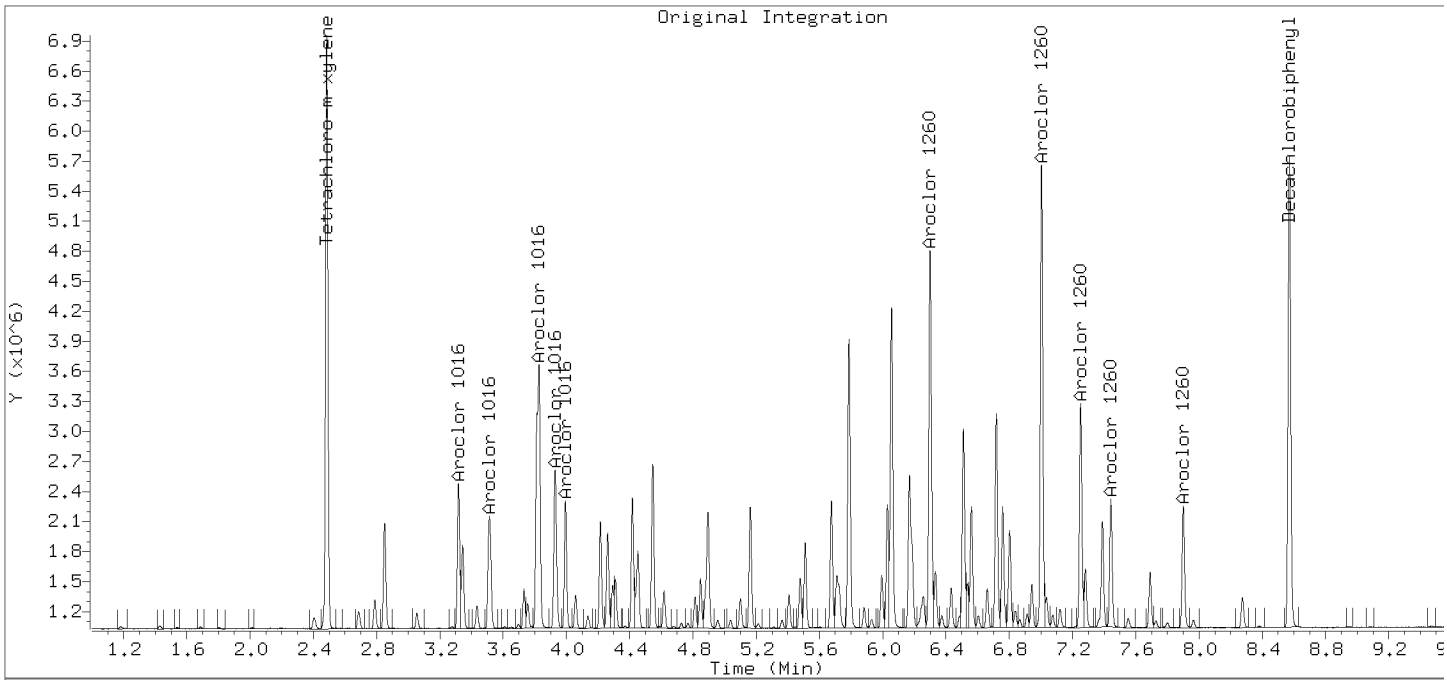
Operator: BLM

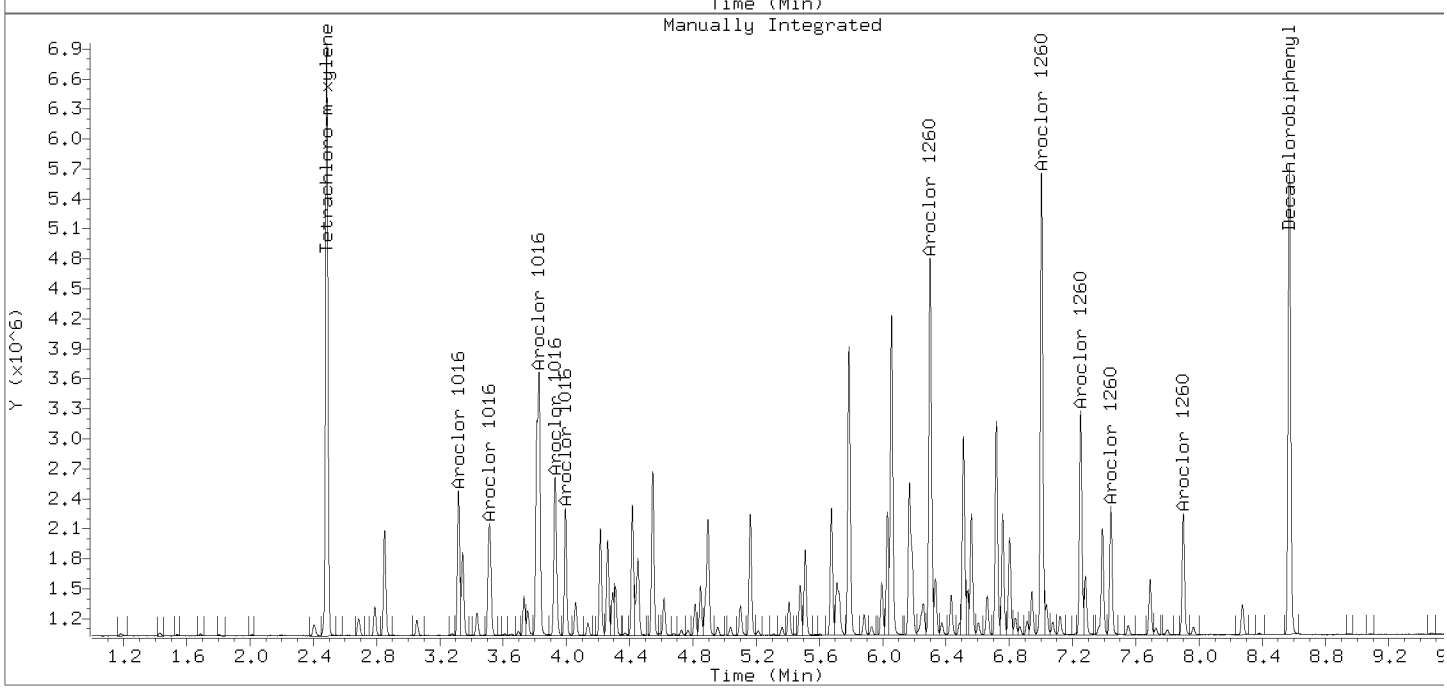
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918016.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 09-MAR-2018 16:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1545169	1553301	BA
Aroclor 1016	1545169	1553301	BA
Aroclor 1016	1545169	1553301	BA
Aroclor 1016	1545169	1553301	BA
Aroclor 1016	1545169	1553301	BA
Aroclor 1260	4464532	4474683	BA
Aroclor 1260	4464532	4474683	BA
Aroclor 1260	4464532	4474683	BA
Aroclor 1260	4464532	4474683	BA
Aroclor 1260	4464532	4474683	BA
Tetrachloro-m-xylene	6176264	6176264	
Decachlorobiphenyl	5412984	5412984	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918028.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 09-MAR-2018 19:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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
1.184	32259	29513	0.915	0.18			
1.430	36360	32537	0.895	0.21			
1.535	12772	12064	0.945	0.07			
1.688	14412	14634	1.015	0.08			
1.805	510931	458139	0.897	2.95		1 Aroclor 1221	BA
2.011	21412	19747	0.922	0.12			
2.161	12669	10866	0.858	0.07			
2.197	168056	145777	0.867	0.97			
2.407	262866	193845	0.737	1.51		1 Aroclor 1221	BA
2.484	5963455	5747431	0.964	34.69	$	2 Tetrachloro-m-xylene	BA
2.688	691222	587807	0.850	3.99		1 Aroclor 1221	BA
2.789	537626	518225	0.964	3.10		1 Aroclor 1221	BA
2.850	1652522	1497279	0.906	9.54		1 Aroclor 1221	BA
3.027	15511	15516	1.000	0.08			
3.053	36368	31168	0.857	0.21			
3.279	123308	93830	0.761	0.71			
3.324	391792	236988	0.605	2.26			
3.434	38074	31866	0.837	0.22			
3.511	144238	105555	0.732	0.83			
3.609	19638	19324	0.984	0.11			
3.731	36592	39903	1.090	0.21			
3.754	29880	33621	1.125	0.17			
3.826	327547	201097	0.614	1.89			
3.929	163660	138466	0.846	0.94			
3.994	104440	100847	0.966	0.60			
4.054	27649	18787	0.679	0.15			
4.216	37108	34696	0.935	0.21			
4.262	33779	31301	0.927	0.19			
4.290	18715	18037	0.964	0.10			
4.310	15102	17993	1.191	0.08			
4.416	40286	37493	0.931	0.23			
4.440	32994	23987	0.727	0.19			
4.544	55857	50116	0.897	0.32			
4.615	16696	13852	0.830	0.09			
4.813	20968	19765	0.943	0.12			
4.847	36530	35747	0.979	0.21			
4.879	58722	39325	0.670	0.33			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.037	38582	35460	0.919	0.22	
5.160	12663	11112	0.877	0.07	
5.509	13479	12265	0.910	0.07	
5.702	9643	8363	0.867	0.05	
5.791	13526	9728	0.719	0.07	
6.448	14019	9163	0.654	0.08	
7.135	13517	11677	0.864	0.07	
7.729	23673	19063	0.805	0.13	
7.778	9576	9065	0.947	0.05	
8.276	50887	41997	0.825	0.29	
8.382	20237	14753	0.729	0.11	
8.571	5295649	4638413	0.876	30.60	$ 12 Decachlorobiphenyl
8.943	18443	14758	0.800	0.10	
9.468	15794	11964	0.758	0.09	
9.963	13181	11497	0.872	0.07	
	17304887	15516422		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918028.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 09-MAR-2018 19:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	5963454	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	510930	0.50000	0.49	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	262866	0.50000	0.48	0.00- 20.00	51.45	BA
2.687	2.688	-0.001	691221	0.50000	0.50	0.00- 20.00	135.29	BA
2.788	2.789	-0.001	537626	0.50000	0.49	0.00- 20.00	105.22	BA
2.850	2.851	-0.001	1652521	0.50000	0.51	0.00- 20.00	323.43	BA
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5295648	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\030918.b\030918028.D

Date : 09-MAR-2018 19:43

Client ID: 1221-CCV

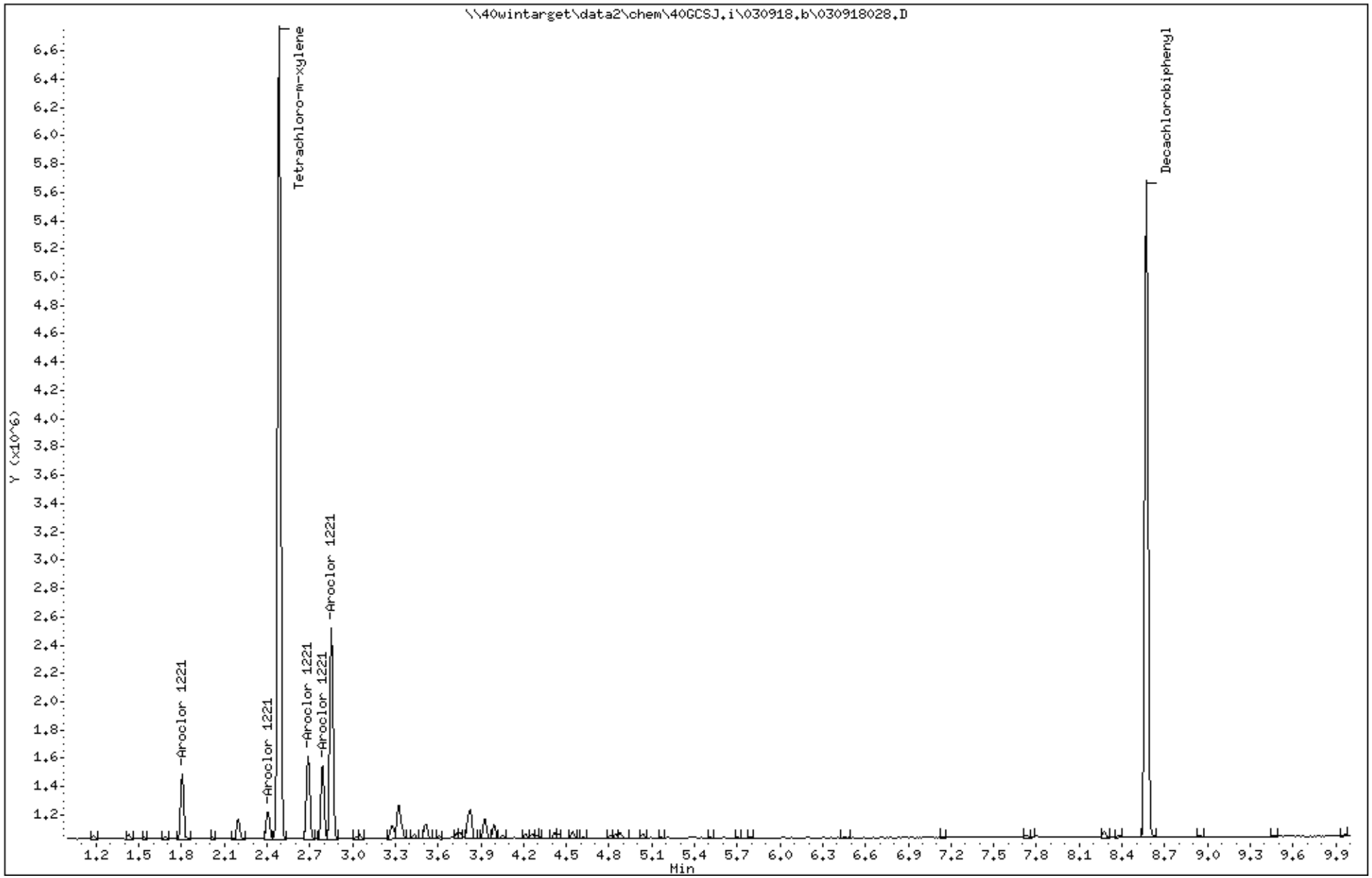
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

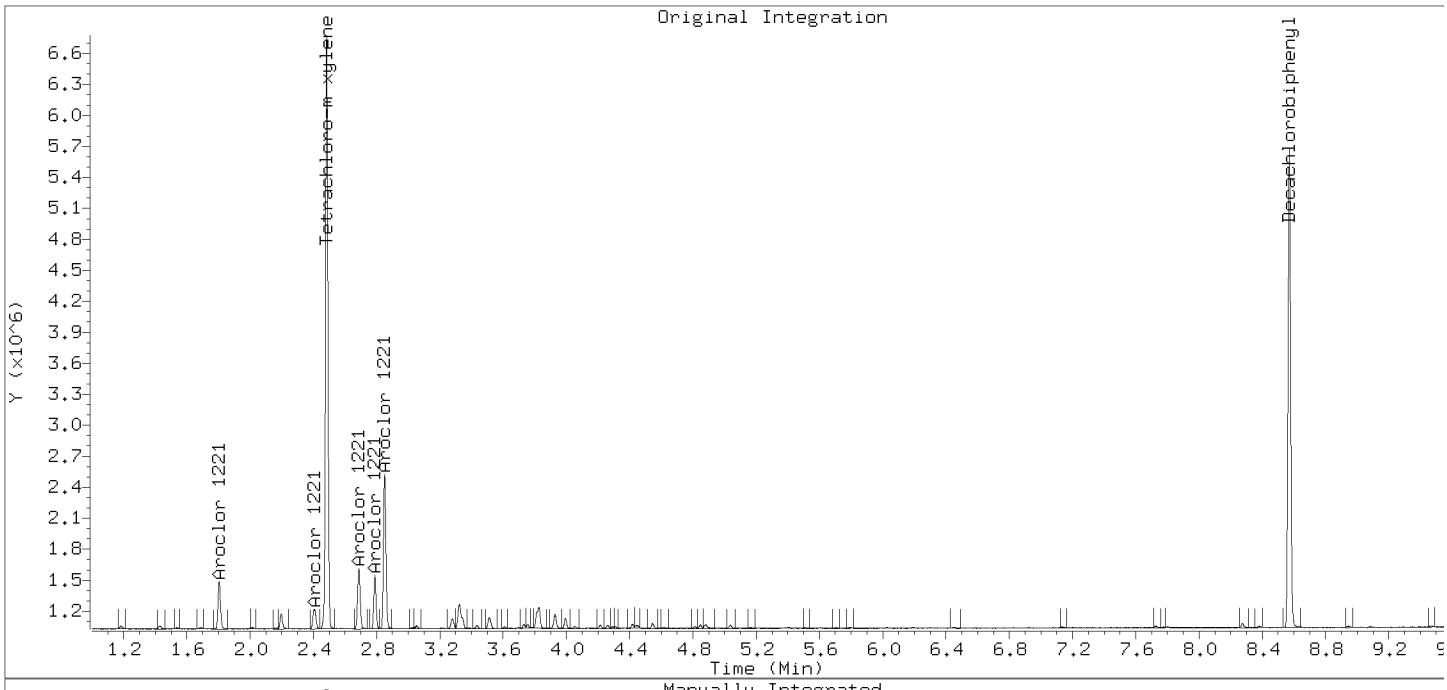
Operator: BLM

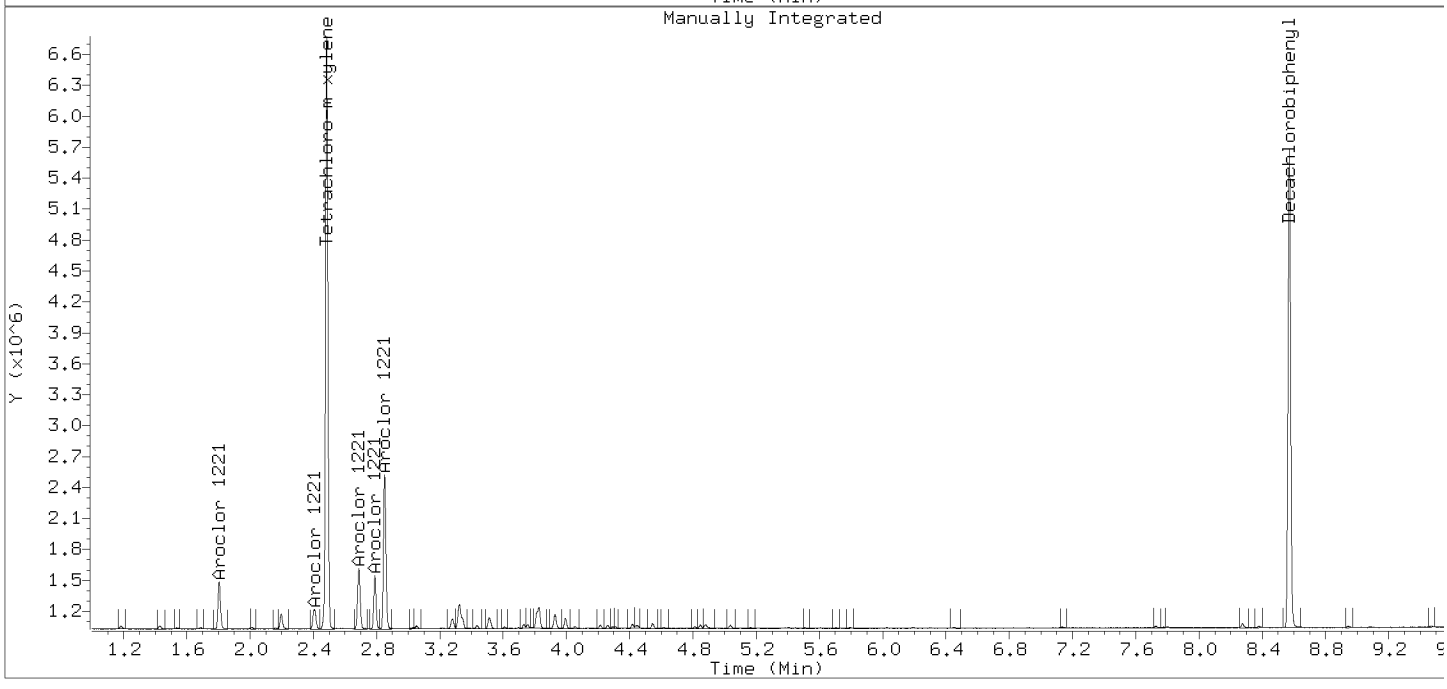
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918028.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 09-MAR-2018 19:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	506586	510930	BA
Aroclor 1221	506586	510930	BA
Aroclor 1221	506586	510930	BA
Aroclor 1221	506586	510930	BA
Aroclor 1221	506586	510930	BA
Tetrachloro-m-xylene	5951607	5963454	BA
Decachlorobiphenyl	5295648	5295648	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918034.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 09-MAR-2018 21:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	13583	12345	0.909	0.04		
1.430	33662	28986	0.861	0.12		
1.538	22437	15190	0.677	0.08		
1.683	22990	16877	0.734	0.08		
1.804	301163	253626	0.842	1.08		
2.009	11398	9633	0.845	0.04		
2.197	91018	79357	0.872	0.32		
2.407	194515	143076	0.736	0.70		
2.484	5938174	5477087	0.922	21.84	$ 2 Tetrachloro-m-xylene	
2.688	443025	366890	0.828	1.60		
2.789	411350	382365	0.930	1.48		
2.850	1331026	1201834	0.903	4.80	4 Aroclor 1232	BA
3.054	93941	76052	0.810	0.33		
3.279	80162	57096	0.712	0.28		
3.317	778699	681031	0.875	2.81		
3.343	407033	376636	0.925	1.47		
3.433	119990	107043	0.892	0.43		
3.512	695005	508383	0.731	2.51	4 Aroclor 1232	BA
3.608	26835	22399	0.835	0.09		
3.696	28510	26217	0.920	0.10		
3.732	186901	188590	1.009	0.67		
3.755	140451	123048	0.876	0.50		
3.826	2018045	1192496	0.591	7.28	4 Aroclor 1232	BA
3.929	867590	731939	0.844	3.13	4 Aroclor 1232	BA
3.994	567231	559317	0.986	2.04	4 Aroclor 1232	BA
4.057	155798	133706	0.858	0.56		
4.136	67560	53189	0.787	0.24		
4.214	403398	379394	0.940	1.45		
4.261	395067	382387	0.968	1.42		
4.293	168377	176254	1.047	0.60		
4.311	213489	191104	0.895	0.77		
4.370	19767	18493	0.936	0.07		
4.416	553147	531758	0.961	1.99		
4.452	460868	315603	0.685	1.66		
4.545	725289	681302	0.939	2.61		
4.617	171031	156957	0.918	0.61		
4.726	41608	34439	0.828	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	41863	38013	0.908	0.15	
4.813	332521	317459	0.955	1.20	
4.848	575881	579513	1.006	2.08	
4.878	731791	587621	0.803	2.64	
4.958	78343	61695	0.788	0.28	
5.037	627352	599387	0.955	2.26	
5.099	112283	88083	0.784	0.40	
5.163	137216	121126	0.883	0.49	
5.212	101977	86293	0.846	0.36	
5.310	26945	21968	0.815	0.09	
5.362	92462	73880	0.799	0.33	
5.406	143883	122157	0.849	0.51	
5.445	89320	77612	0.869	0.32	
5.508	239108	182820	0.765	0.86	
5.603	73338	61731	0.842	0.26	
5.674	15441	13676	0.886	0.05	
5.714	22990	14537	0.632	0.08	
5.737	19229	18465	0.960	0.06	
5.792	162545	132998	0.818	0.58	
5.887	32634	19141	0.587	0.11	
5.989	12063	10266	0.851	0.04	
6.023	131923	123040	0.933	0.47	
6.057	39721	30024	0.756	0.14	
6.299	40716	35580	0.874	0.14	
6.561	9682	9717	1.004	0.03	
6.716	15020	13696	0.912	0.05	
6.801	9693	10000	1.032	0.03	
7.004	27609	25357	0.918	0.09	
7.253	18006	14924	0.829	0.06	
7.387	11042	7366	0.667	0.03	
7.438	12684	8643	0.681	0.04	
7.727	26435	21539	0.815	0.09	
7.773	12469	8989	0.721	0.04	
7.802	18096	15109	0.835	0.06	
8.277	46695	40723	0.872	0.16	
8.378	15807	11379	0.720	0.05	
8.570	5341293	4563615	0.854	19.29	$ 12 Decachlorobiphenyl
8.940	16905	10798	0.639	0.06	
9.960	22069	12448	0.564	0.07	
	27685179	23883487		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918034.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 09-MAR-2018 21:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	5938173	0.05000	0.048			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1331026	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	695004	0.50000	0.52	0.00- 20.00	52.22	BA
3.825	3.827	-0.002	2018045	0.50000	0.54	0.00- 20.00	151.62	BA
3.928	3.929	-0.001	867589	0.50000	0.54	0.00- 20.00	65.18	BA
3.993	3.995	-0.002	567231	0.50000	0.52	0.00- 20.00	42.62	BA
Average of Peak Amounts =					0.53000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5341292	0.05000	0.049			

QC Flag Legend

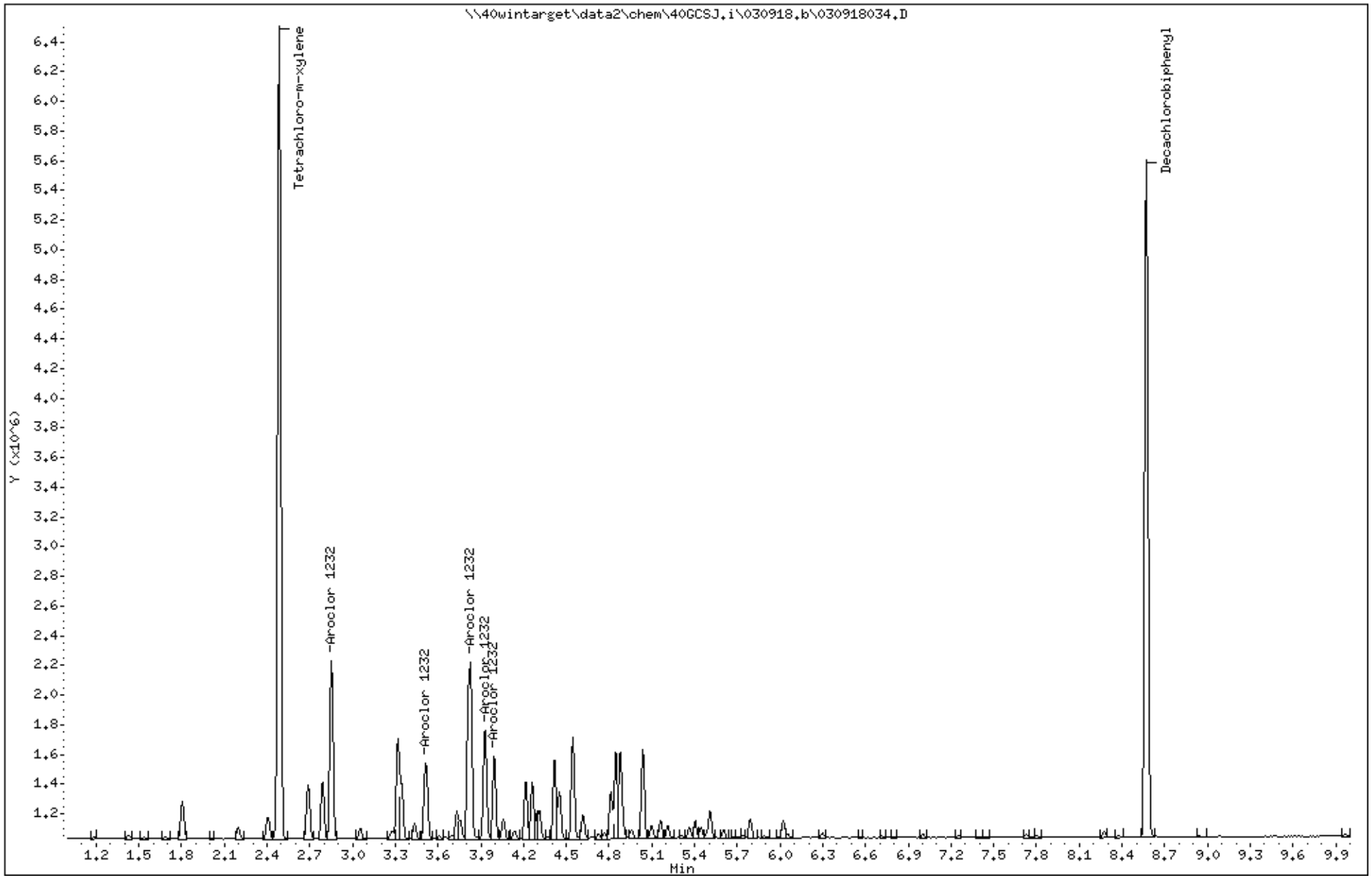
M - Compound response manually integrated.

Review Codes Legend

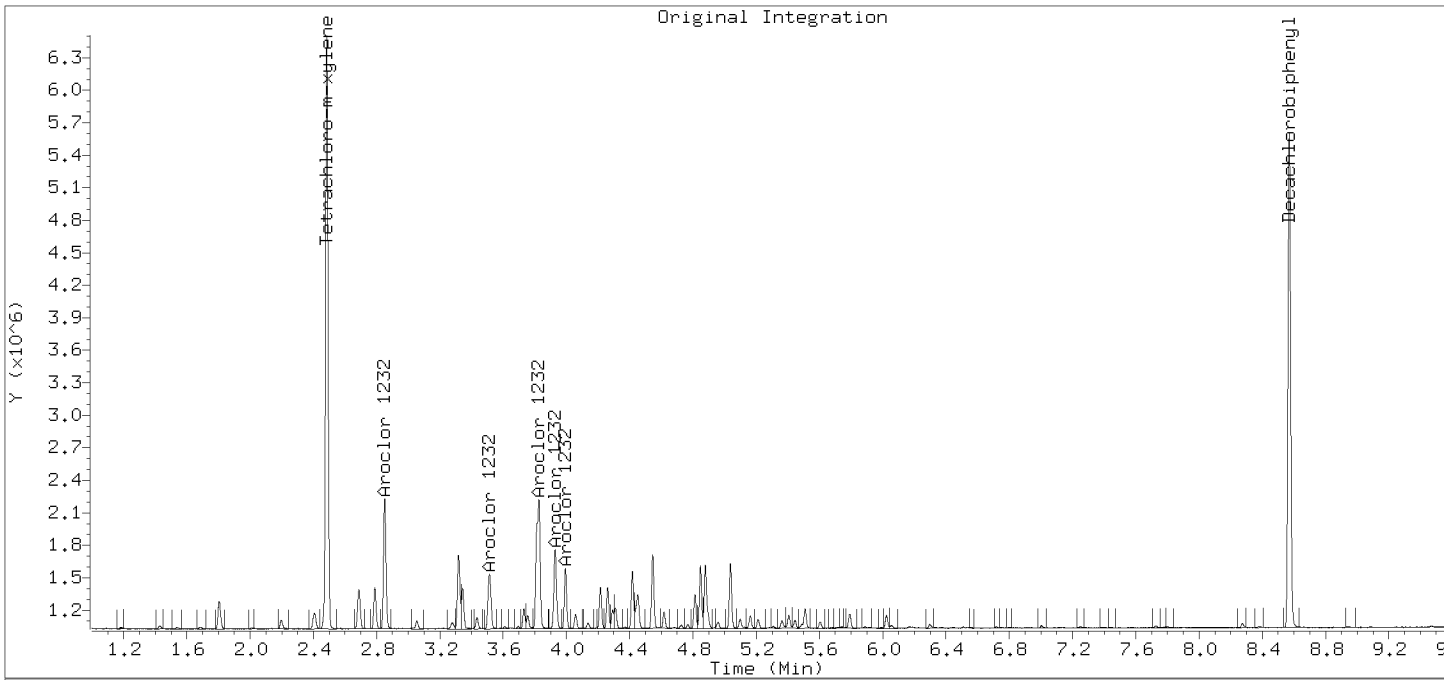
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

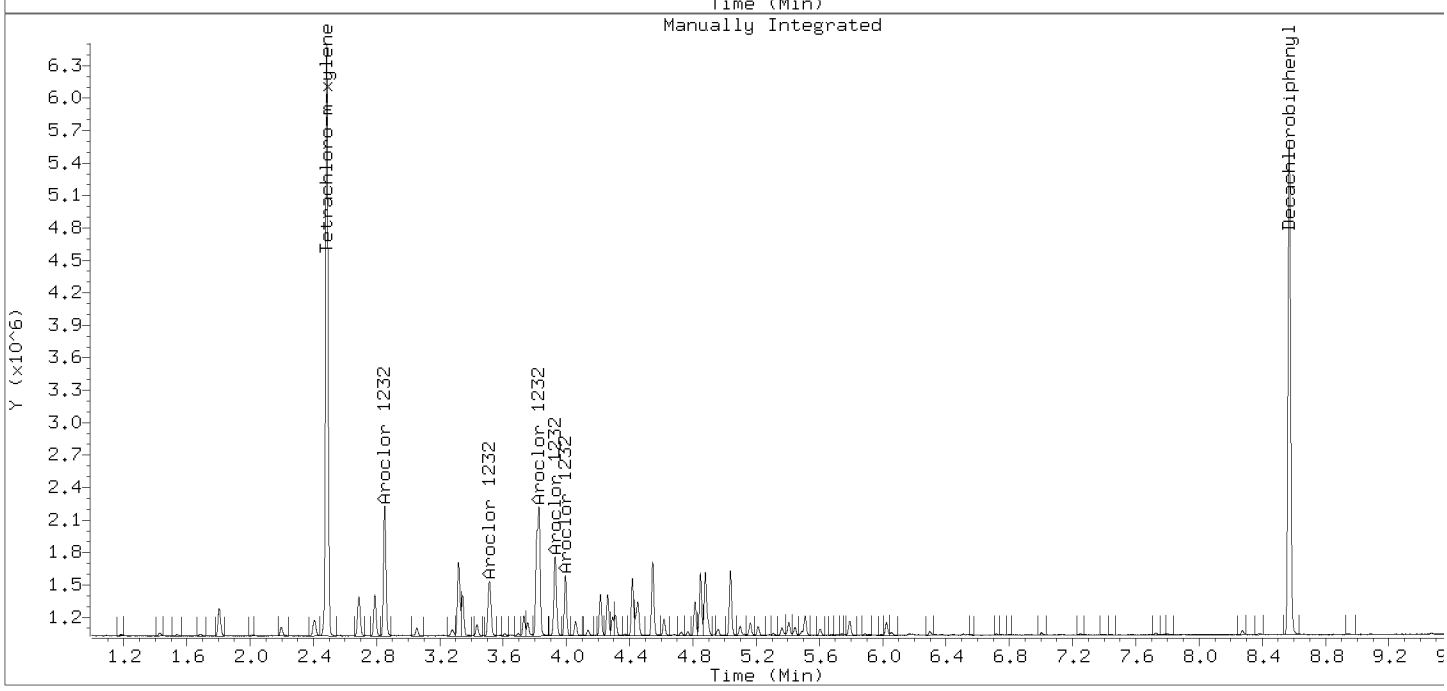
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918034.D
Date : 09-MAR-2018 21:19
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918034.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 09-MAR-2018 21:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1325309	1331026	BA
Aroclor 1232	1325309	1331026	BA
Aroclor 1232	1325309	1331026	BA
Aroclor 1232	1325309	1331026	BA
Aroclor 1232	1325309	1331026	BA
Tetrachloro-m-xylene	5938173	5938173	
Decachlorobiphenyl	5341292	5341292	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 20-MAR-2018 13:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	18769	12886	0.687	0.07		
1.429	32246	27140	0.842	0.13		
1.538	17672	12686	0.718	0.07		
1.687	16874	12883	0.763	0.06		
1.805	279489	238736	0.854	1.14		
2.014	16714	9586	0.574	0.06		
2.197	80947	68027	0.840	0.33		
2.406	183636	136726	0.745	0.75		
2.485	5513237	5173006	0.938	22.96	$ 2 Tetrachloro-m-xylene	
2.688	400252	323681	0.809	1.64		
2.789	367326	336893	0.917	1.50		
2.851	1173523	1049934	0.895	4.81	4 Aroclor 1232	BA
3.055	85153	70376	0.826	0.34		
3.279	64210	44787	0.698	0.26		
3.317	685428	616910	0.900	2.81		
3.344	375417	346526	0.923	1.54		
3.434	113456	99387	0.876	0.46		
3.513	636911	461134	0.724	2.61	4 Aroclor 1232	BA
3.611	18225	15806	0.867	0.07		
3.697	22969	22403	0.975	0.09		
3.731	163746	166117	1.014	0.67		
3.756	111768	104889	0.938	0.45		
3.827	1704173	1002873	0.588	6.99	4 Aroclor 1232	BA
3.930	729265	611968	0.839	2.99	4 Aroclor 1232	BA
3.995	476866	448043	0.940	1.95	4 Aroclor 1232	BA
4.059	146129	125560	0.859	0.59		
4.135	56862	49166	0.865	0.23		
4.214	372764	344032	0.923	1.52		
4.261	356747	334540	0.938	1.46		
4.292	152163	151604	0.996	0.62		
4.310	180155	172692	0.959	0.73		
4.373	17531	12740	0.727	0.07		
4.417	492777	468755	0.951	2.02		
4.452	394065	275637	0.699	1.61		
4.546	624327	571499	0.915	2.56		
4.618	155625	138250	0.888	0.63		
4.727	35969	29926	0.832	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.766	37422	33152	0.886	0.15	
4.812	271193	259278	0.956	1.11	
4.847	471065	441517	0.937	1.93	
4.878	603935	454838	0.753	2.47	
4.958	75526	56837	0.753	0.30	
5.037	497238	449752	0.905	2.04	
5.097	108384	80076	0.739	0.44	
5.162	121126	104311	0.861	0.49	
5.213	84295	73595	0.873	0.34	
5.308	26103	19600	0.751	0.10	
5.363	78887	64046	0.812	0.32	
5.408	122066	103261	0.846	0.50	
5.446	75099	62808	0.836	0.30	
5.508	205816	148969	0.724	0.84	
5.603	61375	53470	0.871	0.25	
5.674	15851	12606	0.795	0.06	
5.709	20116	12800	0.636	0.08	
5.740	16529	14655	0.887	0.06	
5.792	125160	99179	0.792	0.51	
6.025	99686	86279	0.866	0.40	
6.054	28489	26115	0.917	0.11	
6.168	17974	11588	0.645	0.07	
6.298	36679	29319	0.799	0.15	
6.718	16213	12381	0.764	0.06	
7.003	24916	18794	0.754	0.10	
7.125	23452	12320	0.525	0.09	
7.250	13992	10776	0.770	0.05	
7.728	21558	21775	1.010	0.08	
7.801	24229	20216	0.834	0.09	
8.276	43111	35648	0.827	0.17	
8.375	10847	10387	0.958	0.04	
8.571	4722561	3845910	0.814	19.37	$ 12 Decachlorobiphenyl
	24374284	20774062		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 20-MAR-2018 13:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5513237	0.05000	0.045			
4 Aroclor 1232						CAS #: 1114-16-5		
2.850	2.851	-0.001	1173523	0.50000	0.47	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	636911	0.50000	0.48	0.00- 20.00	54.27	BA
3.826	3.827	-0.001	1704173	0.50000	0.45	0.00- 20.00	145.22	BA
3.929	3.929	0.000	729265	0.50000	0.45	0.00- 20.00	62.14	BA
3.994	3.995	-0.001	476866	0.50000	0.44	0.00- 20.00	40.64	BA
Average of Peak Amounts =					0.45800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	4722561	0.05000	0.043			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D

Date : 20-MAR-2018 13:19

Client ID: 1232-CCV

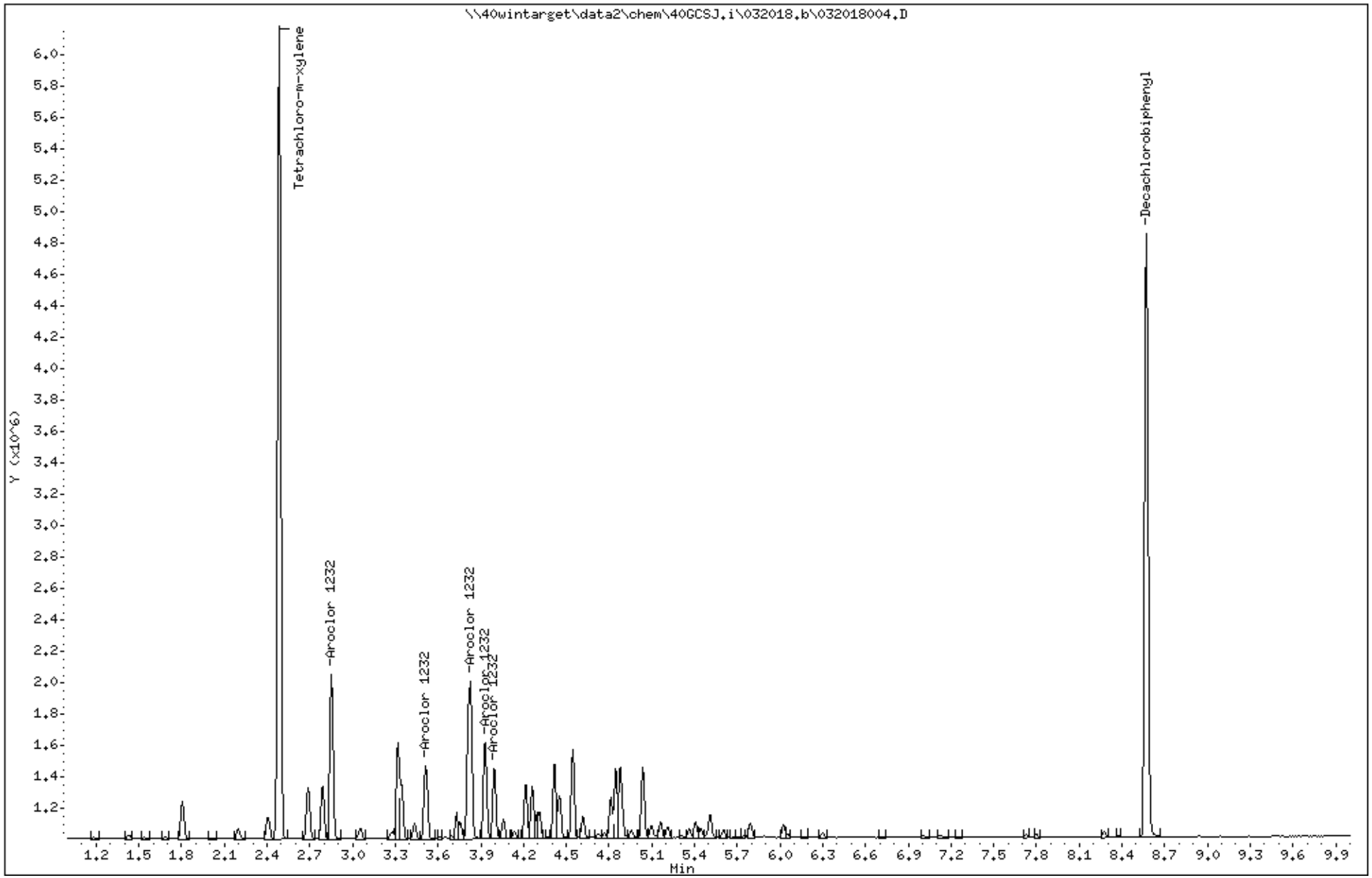
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

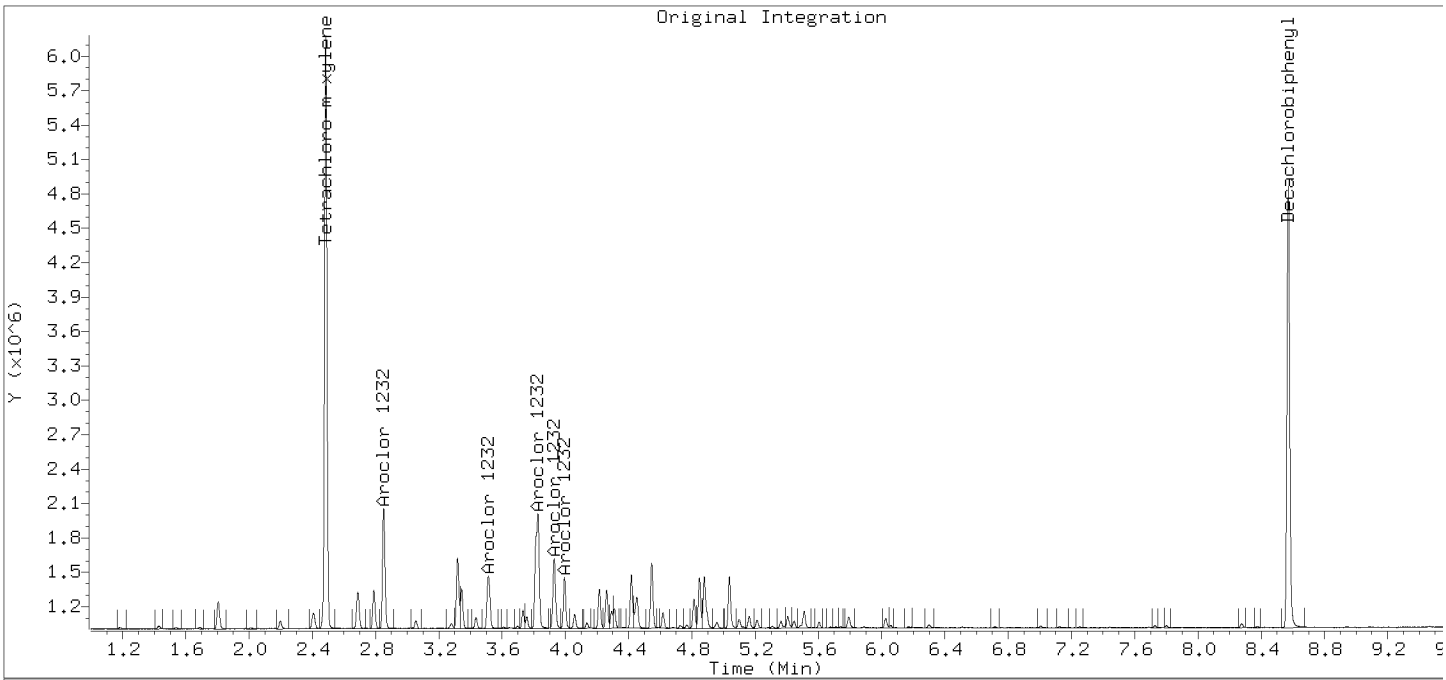
Operator: BLM

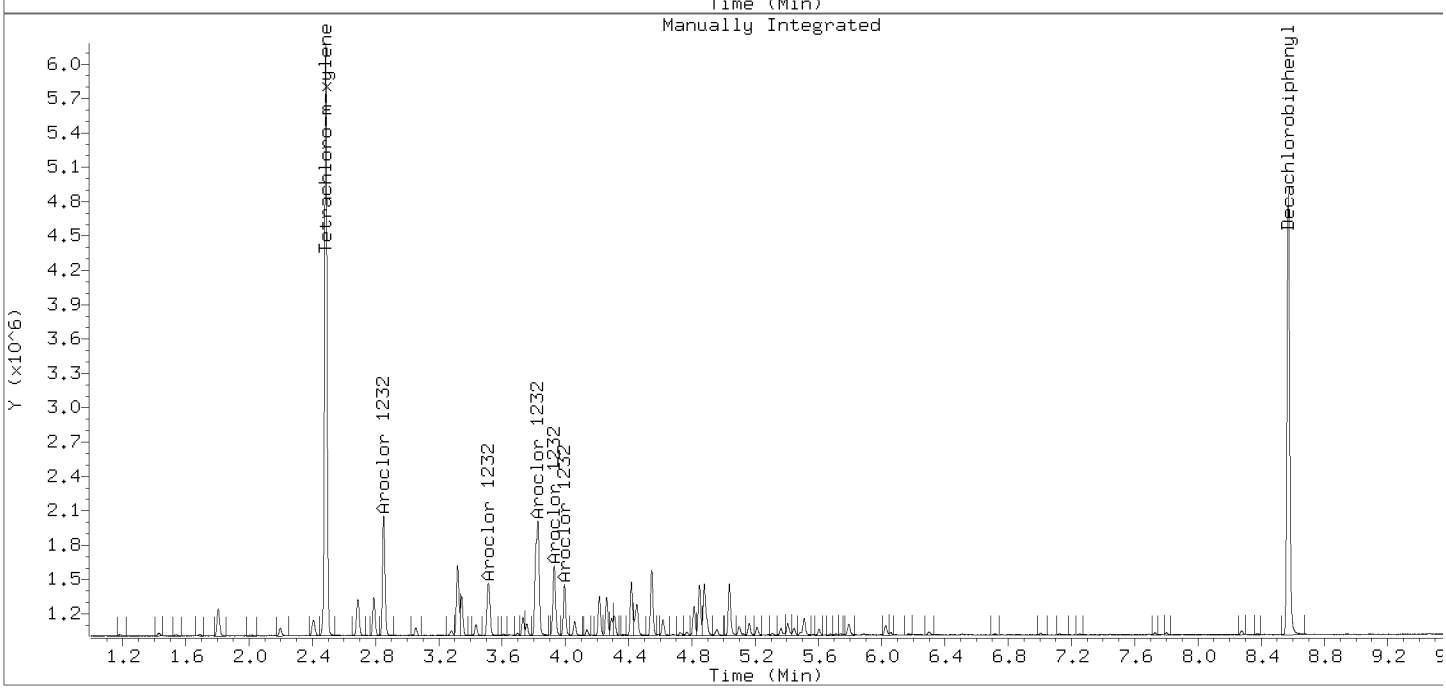
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 20-MAR-2018 13:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Tetrachloro-m-xylene	5513237	5513237	
Decachlorobiphenyl	4722561	4722561	

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

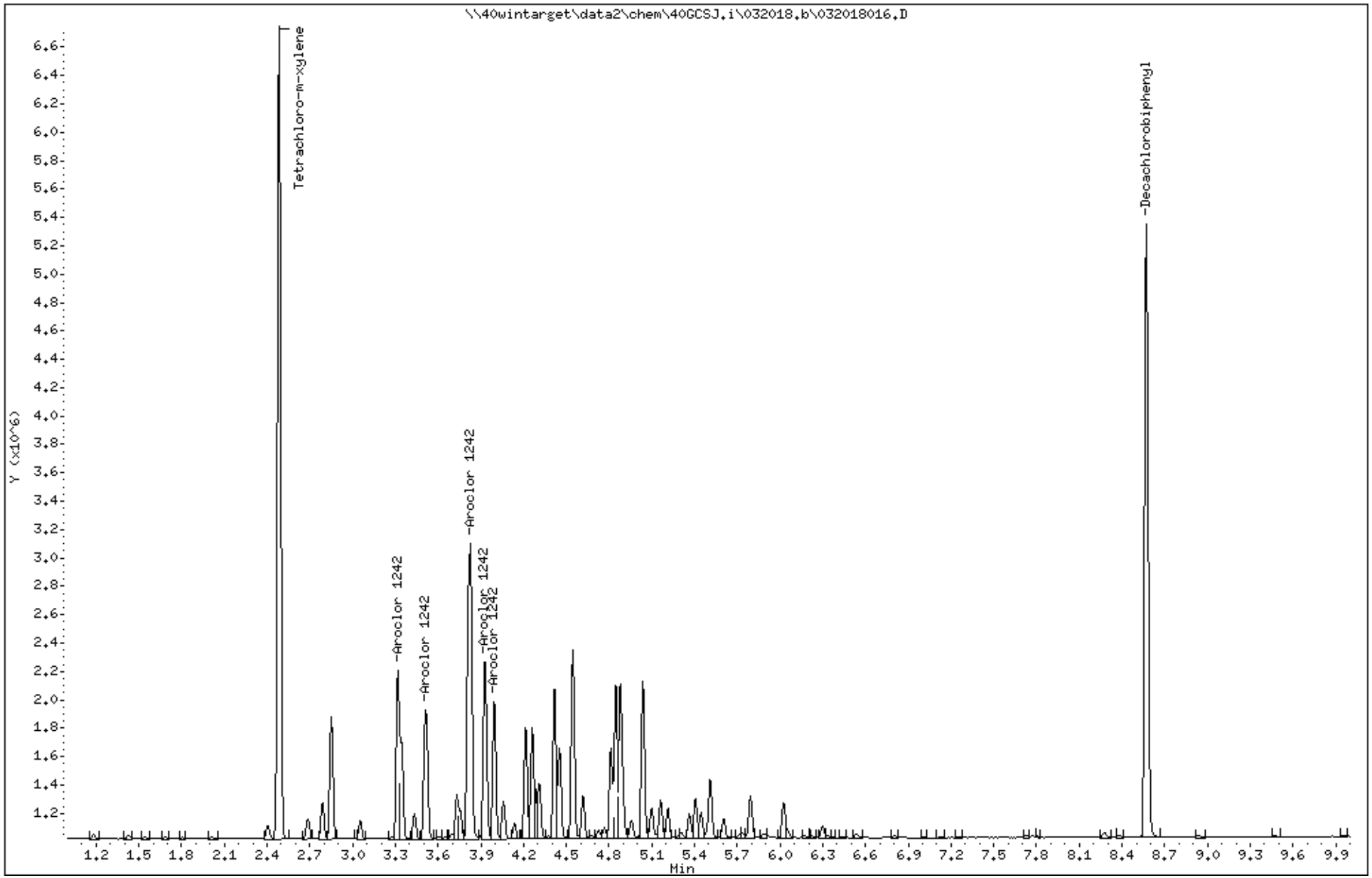
M - Compound response manually integrated.

Review Codes Legend

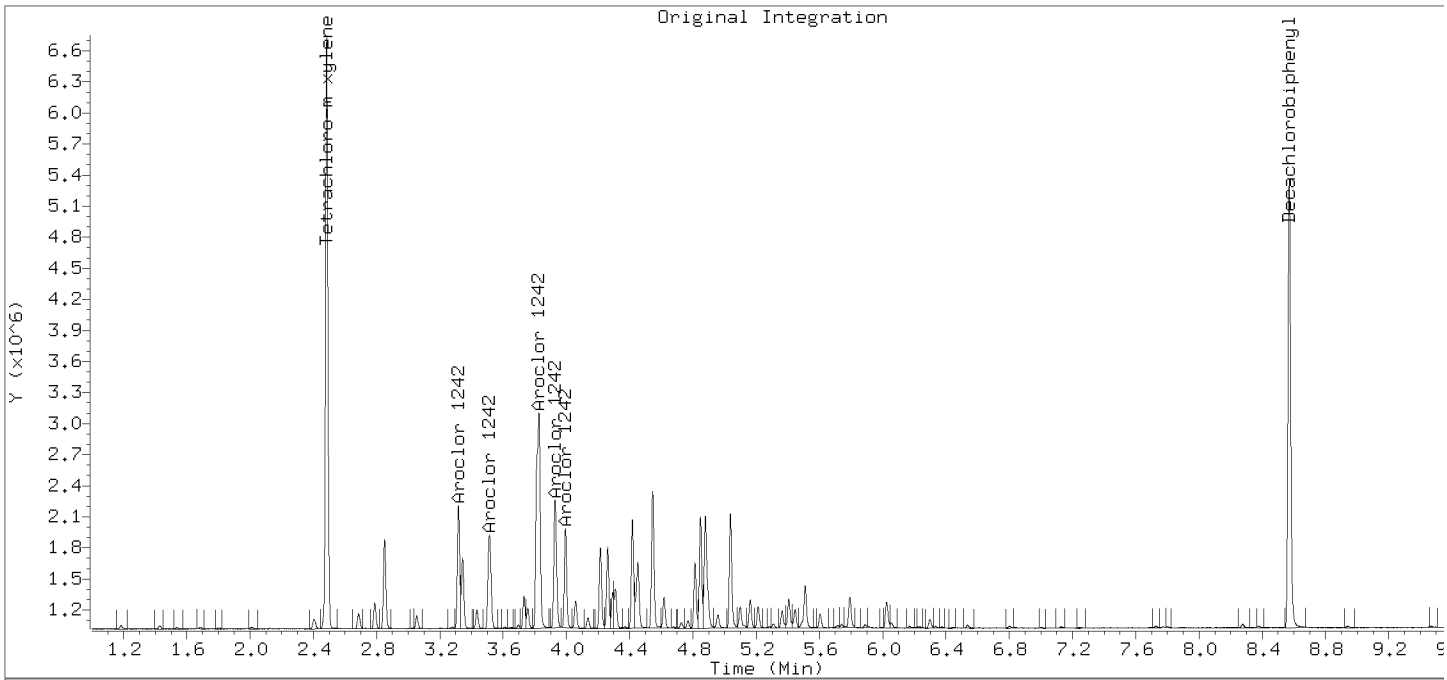
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

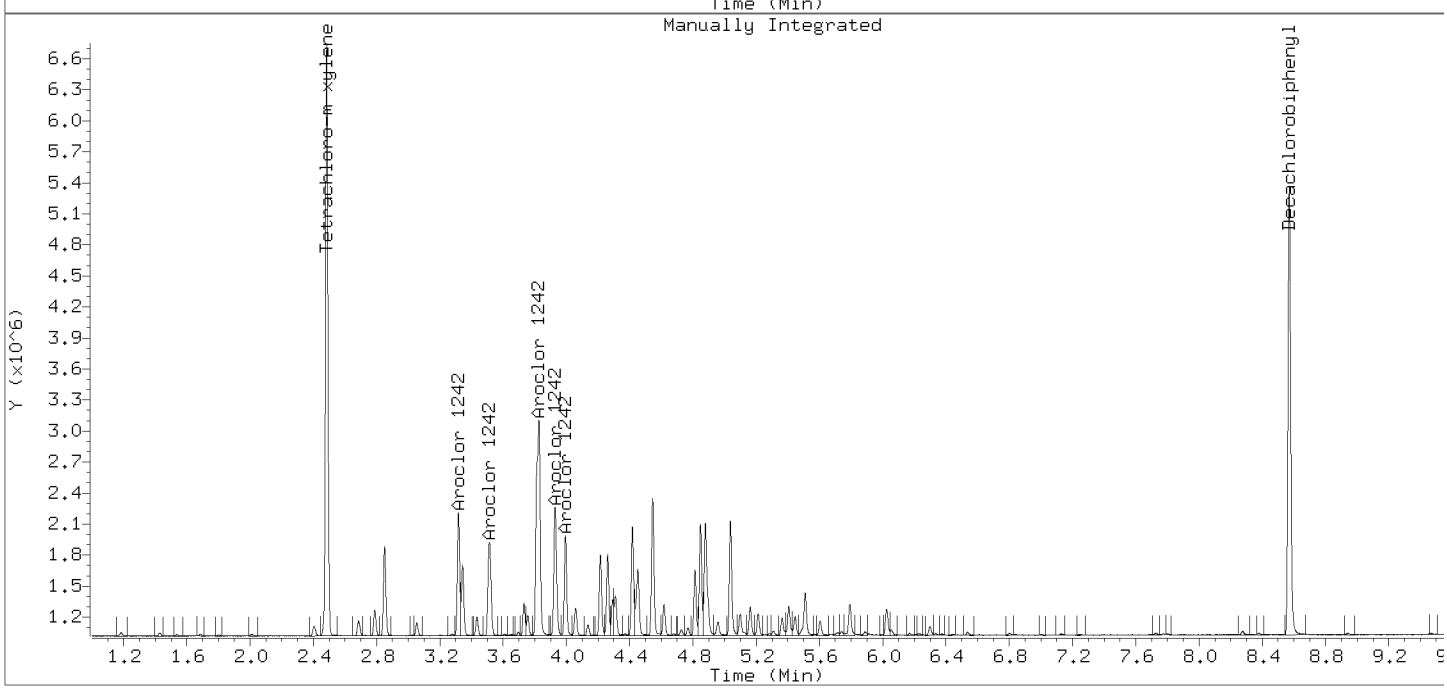
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Date : 20-MAR-2018 16:29
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

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



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





Manually Integrated Compounds

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

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 M

Date Received:

Matrix: Tissue SDG No.: 40150294

Date Extracted: 03/08/2018 07:45

Lab Sample ID: 1656282

Date Analyzed: 03/09/2018 13:55

Lab File ID: 030918.B\030918006.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\030918.b\030918006.D
Lab Smp Id: 1656282 Client Smp ID: MB
Inj Date : 09-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656282,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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
1.536	10697	9864	0.922	0.05		
2.485	9210355	9050662	0.983	50.42	$ 2 Tetrachloro-m-xylene	
2.786	18268	14767	0.808	0.09		
2.861	21901	14101	0.644	0.11		
4.240	20477	18366	0.897	0.11		
6.872	11619	9080	0.782	0.06		
7.124	21015	14320	0.681	0.11		
7.691	11859	11467	0.967	0.06		
7.728	46963	41117	0.876	0.25		
7.802	39487	29906	0.757	0.21		
8.275	78248	68606	0.877	0.42		
8.380	16207	12470	0.769	0.08		
8.572	8767501	7750272	0.884	47.90	$ 12 Decachlorobiphenyl	
8.940	13170	7638	0.580	0.07		
9.962	12758	8248	0.646	0.06		
	18300524	17060884		100.000		

Total unknown % area = 1.7

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918006.D
Lab Smp Id: 1656282 Client Smp ID: MB
Inj Date : 09-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656282,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	9210354	0.07470	37			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

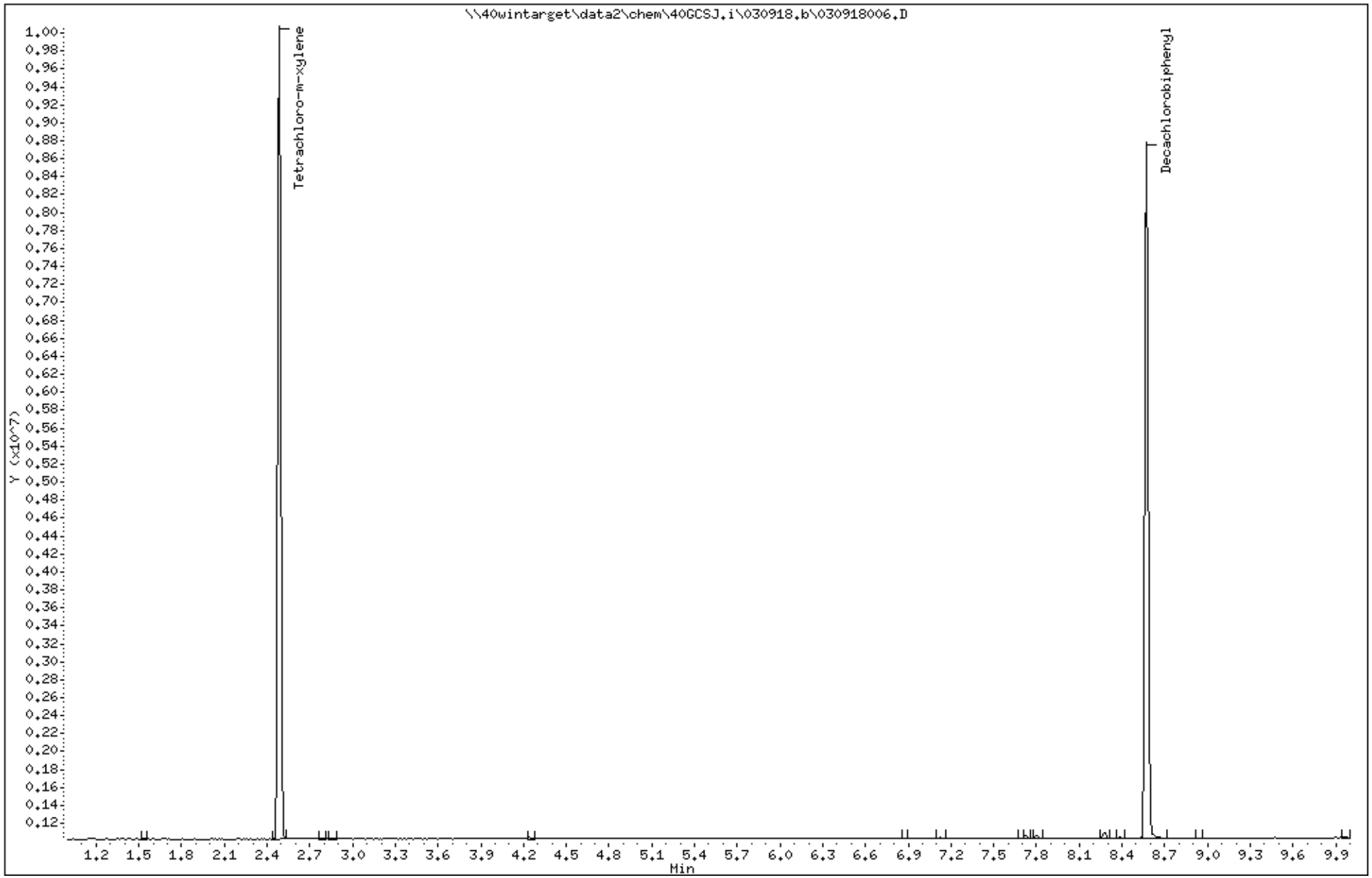
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	8767500	0.08002		40		

Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918006.D
Date : 09-MAR-2018 13:55
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1656282,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 13:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1656282

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	9210354	9210354	
Decachlorobiphenyl	8767500	8767500	

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 M

Date Received:

Matrix: Tissue SDG No.: 40150294

Date Extracted: 03/08/2018 07:45

Lab Sample ID: 1656283

Date Analyzed: 03/09/2018 14:11

Lab File ID: 030918.B\030918007.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)	213	
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\030918.b\030918007.D
Lab Smp Id: 1656283 Client Smp ID: MBLCS
Inj Date : 09-MAR-2018 14:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656283,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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
1.186	18977	17527	0.924	0.04		
1.537	11474	10978	0.957	0.02		
1.799	10812	11371	1.052	0.02		
2.013	12209	10326	0.846	0.03		
2.194	16464	9547	0.580	0.04		
2.406	107453	83271	0.775	0.26		
2.485	8850807	8550883	0.966	22.37	$ 2 Tetrachloro-m-xylene	
2.687	153439	128116	0.835	0.38		
2.790	188032	176968	0.941	0.46		
2.851	834933	781522	0.936	2.07		
3.056	121329	101365	0.835	0.30		
3.272	21443	15697	0.732	0.05		
3.318	1090111	1034601	0.949	2.70	3 Aroclor 1242	BA
3.345	612784	582371	0.950	1.52		
3.434	173357	161732	0.933	0.43		
3.514	1087054	791282	0.728	2.69	3 Aroclor 1242	BA
3.696	31385	30191	0.962	0.07		
3.732	276204	273468	0.990	0.68		
3.757	178796	169657	0.949	0.44		
3.827	3014552	1775542	0.589	7.47	3 Aroclor 1242	BA
3.929	1293656	1107108	0.856	3.20	3 Aroclor 1242	BA
3.994	859020	828968	0.965	2.13	3 Aroclor 1242	BA
4.059	241208	226348	0.938	0.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.139	100209	90682	0.905	0.24	
4.216	728112	700653	0.962	1.80	
4.261	689855	673677	0.977	1.71	
4.293	279034	292544	1.048	0.69	
4.311	342137	322118	0.941	0.84	
4.371	22040	18000	0.817	0.05	
4.418	968373	910127	0.940	2.40	
4.452	700892	538654	0.769	1.73	
4.546	1203398	1103352	0.917	2.98	
4.592	15772	17751	1.125	0.03	
4.617	284434	265811	0.935	0.70	
4.680	23353	17464	0.748	0.05	
4.726	62237	50104	0.805	0.15	
4.770	67057	61786	0.921	0.16	
4.813	538998	525853	0.976	1.33	
4.849	964246	913450	0.947	2.39	
4.879	1207332	915518	0.758	2.99	
4.959	136758	106989	0.782	0.33	
5.038	1001281	950686	0.949	2.48	
5.099	213560	162150	0.759	0.52	
5.162	246471	215660	0.875	0.61	
5.213	178087	161764	0.908	0.44	
5.277	3227	10536	3.265	0.00	
5.284	11680	15776	1.351	0.02	
5.307	45288	35838	0.791	0.11	
5.364	158321	135149	0.854	0.39	
5.408	259809	220464	0.849	0.64	
5.447	167940	142807	0.850	0.41	
5.510	417868	331038	0.792	1.03	
5.606	131551	112406	0.854	0.32	
5.677	15074	15440	1.024	0.03	
5.715	30152	21915	0.727	0.07	
5.741	33531	29494	0.880	0.08	
5.792	280535	219342	0.782	0.69	
5.889	43141	28164	0.653	0.10	
5.990	14962	11540	0.771	0.03	
6.025	220418	195586	0.887	0.54	
6.056	44745	37558	0.839	0.11	
6.172	26319	16626	0.632	0.06	
6.303	58759	50392	0.858	0.14	
6.333	16997	12653	0.744	0.04	
6.373	17469	12696	0.727	0.04	
6.537	25156	17770	0.706	0.06	
6.803	23111	15639	0.677	0.05	
6.832	15664	11414	0.729	0.03	
6.867	18900	13217	0.699	0.04	
7.005	19094	15000	0.786	0.04	
7.122	27866	16816	0.603	0.06	
7.546	9218	7252	0.787	0.02	
7.570	10245	9473	0.925	0.02	
7.690	13272	11840	0.892	0.03	
7.727	46851	39539	0.844	0.11	
7.800	34952	29952	0.857	0.08	
8.276	95778	76205	0.796	0.23	
8.375	20893	14557	0.697	0.05	
8.572	8656605	7606903	0.879	21.47	$ 12 Decachlorobiphenyl
8.940	18579	14077	0.758	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.470	50203	31043	0.618	0.12	
9.965	49112	35273	0.718	0.12	
	40312420	35515022		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918007.D
Lab Smp Id: 1656283 Client Smp ID: MBLCS
Inj Date : 09-MAR-2018 14:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656283,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	8850807	0.07179	36			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1090111	0.43033	220	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1087054	0.43136	220	0.00- 20.00	99.72	BA
3.826	3.827	-0.001	3014552	0.42360	210	0.00- 20.00	276.54	BA
3.928	3.929	-0.001	1293655	0.42533	210	0.00- 20.00	118.67	BA
3.993	3.995	-0.002	859020	0.41950	210	0.00- 20.00	78.80	BA
Average of Peak Concentrations =					210			

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

8.571	8.571	0.000	8656604	0.07901	40

QC Flag Legend

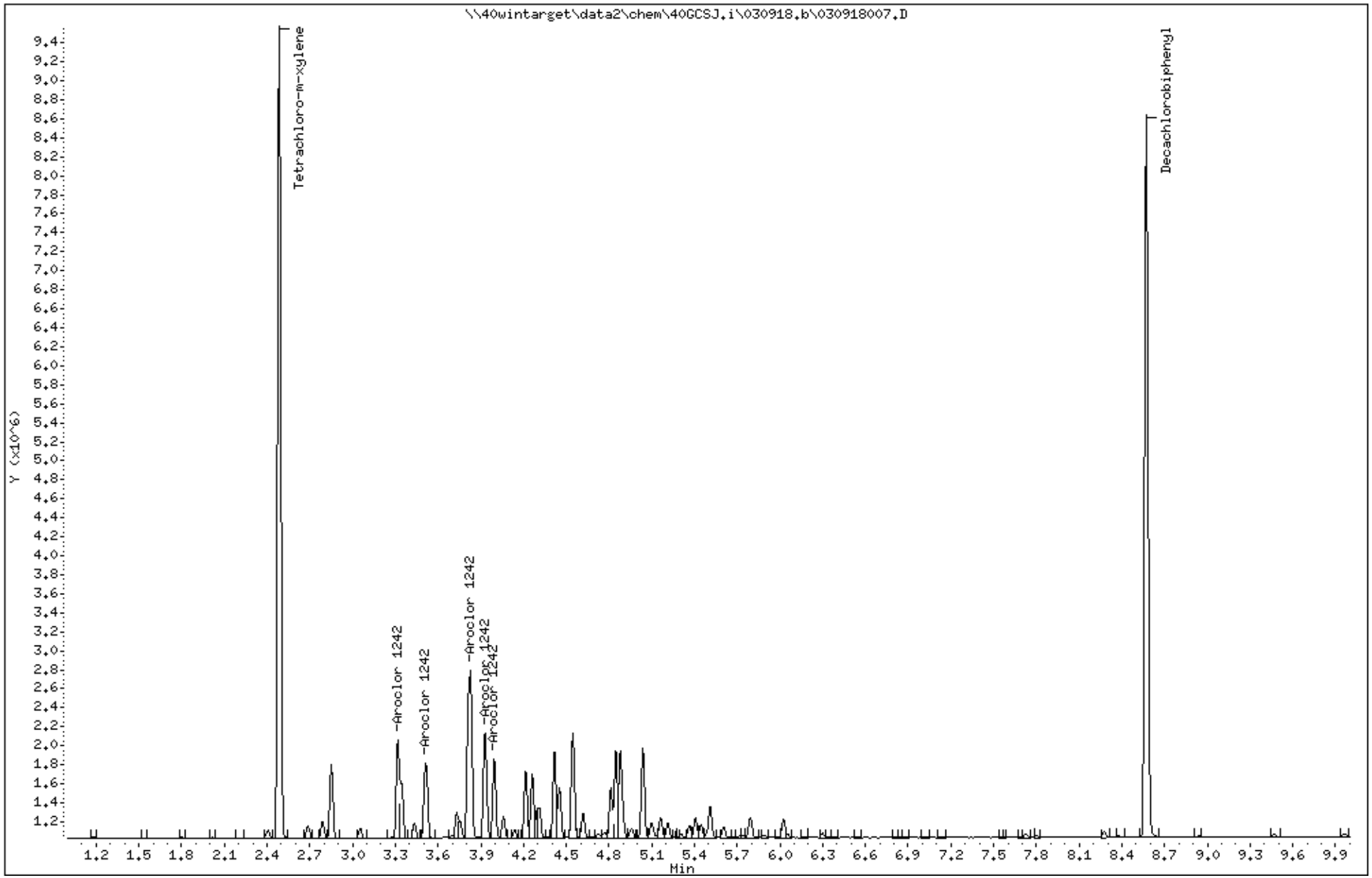
M - Compound response manually integrated.

Review Codes Legend

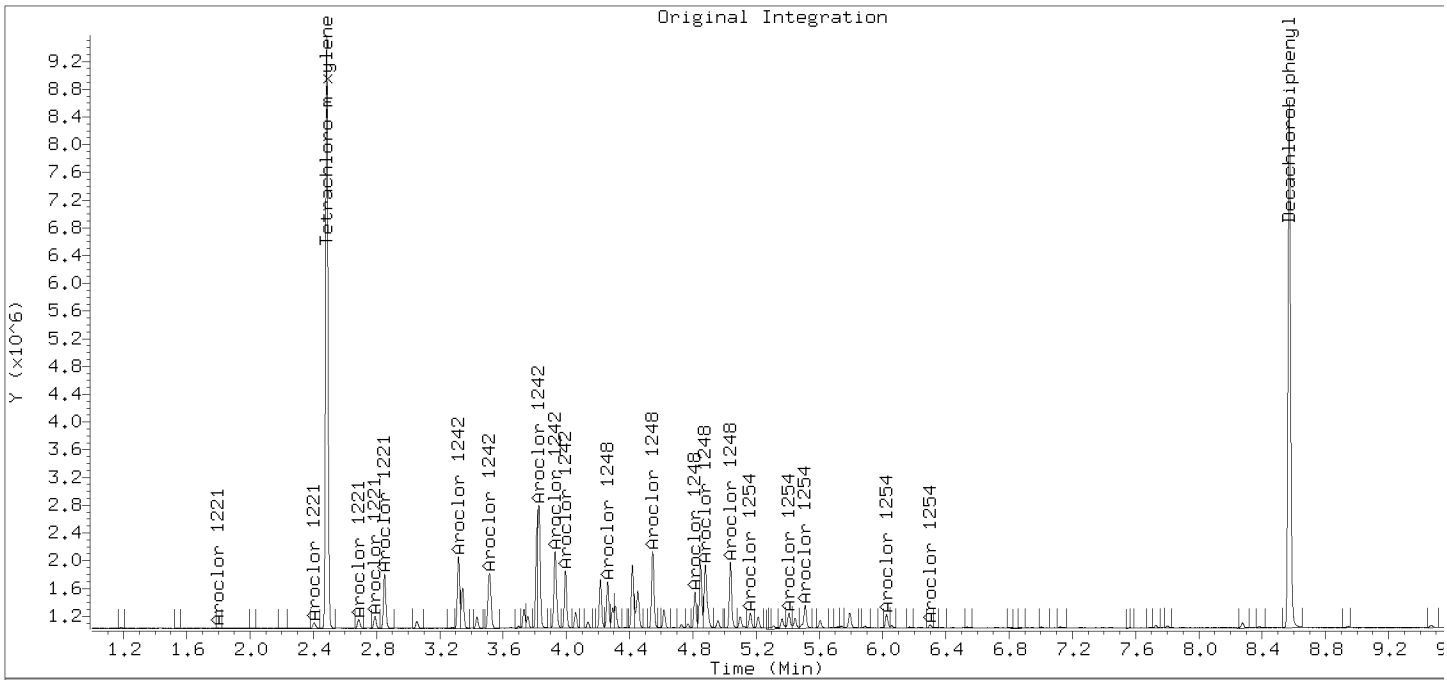
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

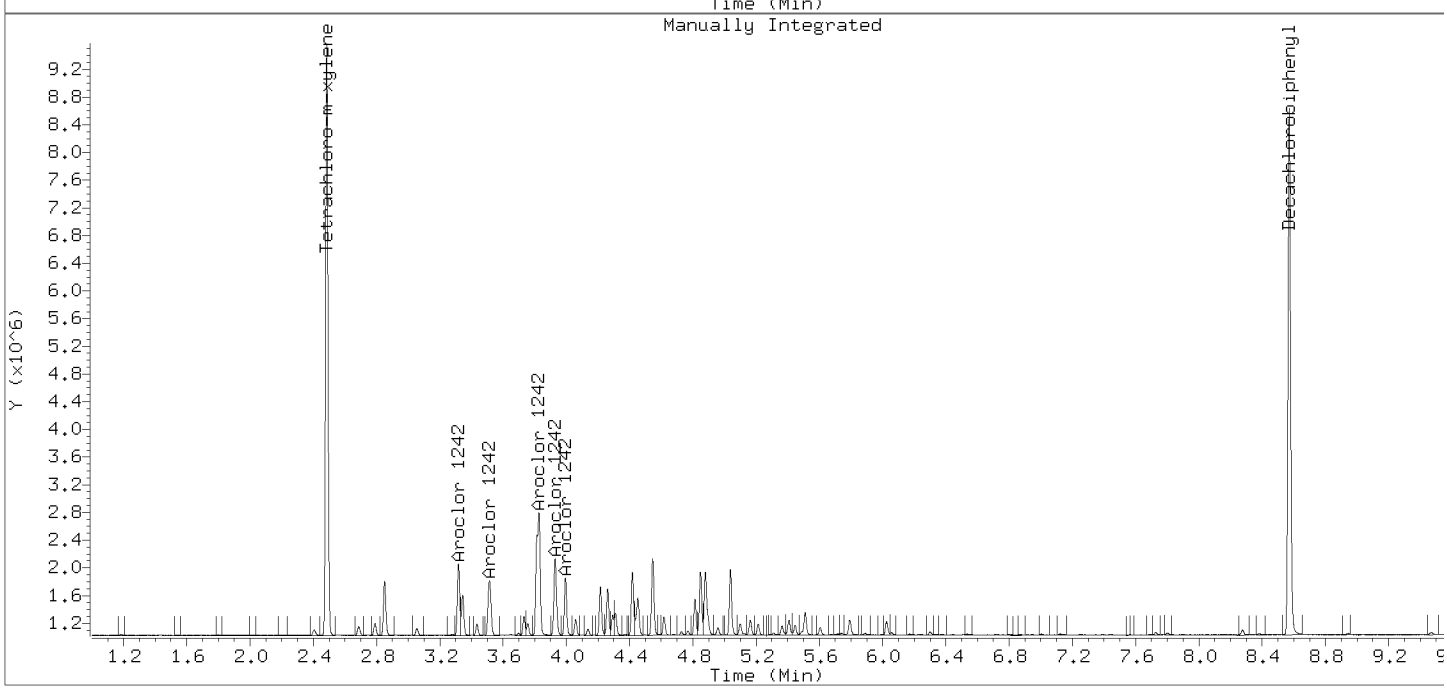
Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918007.D
Date : 09-MAR-2018 14:11
Client ID: MBLCS
Sample Info: 1656283,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 14:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1656283





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1085838	0	
Aroclor 1016	1085838	0	
Aroclor 1016	1085838	0	
Aroclor 1016	1085838	0	
Aroclor 1016	1085838	0	
Aroclor 1221	10812	0	
Aroclor 1221	10812	0	
Aroclor 1221	10812	0	
Aroclor 1221	10812	0	
Aroclor 1221	10812	0	
Aroclor 1232	827476	0	
Aroclor 1232	827476	0	
Aroclor 1232	827476	0	
Aroclor 1232	827476	0	

Aroclor 1232	827476	0	
Aroclor 1242	1085838	1090111	BA
Aroclor 1242	1085838	1090111	BA
Aroclor 1242	1085838	1090111	BA
Aroclor 1242	1085838	1090111	BA
Aroclor 1242	1085838	1090111	BA
Aroclor 1248	683167	0	
Aroclor 1248	683167	0	
Aroclor 1248	683167	0	
Aroclor 1248	683167	0	
Aroclor 1248	683167	0	
Aroclor 1254	243635	0	
Aroclor 1254	243635	0	
Aroclor 1254	243635	0	
Aroclor 1254	243635	0	
Aroclor 1254	243635	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	8850807	8850807	
Decachlorobiphenyl	8656604	8656604	

==========

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 M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150294
Date Extracted: 03/08/2018 07:45
Lab Sample ID: 1656284
Date Analyzed: 03/09/2018 14:27
Lab File ID: 030918.B\030918008.D
Initial wt/vol: 10.005 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)	266	
12672-29-6	PCB-1248 (Aroclor 1248)	244	
11097-69-1	PCB-1254 (Aroclor 1254)	89.4	
11096-82-5	PCB-1260 (Aroclor 1260)	98.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918008.D
Lab Smp Id: 1656284 Client Smp ID: CS1-170518-01-BB-06
Inj Date : 09-MAR-2018 14:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656284,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	15297	12361	0.808	0.01		
1.427	10569	9738	0.921	0.01		
1.805	18078	14484	0.801	0.02		
2.405	146654	112648	0.768	0.18		
2.485	11516561	11151321	0.968	15.11	$ 2 Tetrachloro-m-xylene	
2.686	188658	153350	0.813	0.23		
2.790	231164	219612	0.950	0.29		
2.850	1008507	934705	0.927	1.27		
2.977	42157	25614	0.608	0.05		
3.021	36492	32915	0.902	0.04		
3.054	139344	128694	0.924	0.17		
3.276	24767	19186	0.775	0.03		
3.318	1338306	1250342	0.934	1.69	3 Aroclor 1242	BA
3.343	740670	703096	0.949	0.93		
3.434	243203	226330	0.931	0.30		
3.514	1349533	983894	0.729	1.70	3 Aroclor 1242	BA
3.647	32937	22741	0.690	0.04		
3.697	42303	37950	0.897	0.05		
3.732	389419	390952	1.004	0.49		
3.756	219256	220088	1.004	0.27		
3.827	3992730	2402057	0.602	5.04	3 Aroclor 1242	BA
3.929	1538517	1291305	0.839	1.94	3 Aroclor 1242	BA
3.994	1091428	1052049	0.964	1.38	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.060	330564	296718	0.898	0.41	
4.137	142466	119463	0.839	0.18	
4.215	1188121	1103382	0.929	1.50	
4.261	1276086	1198755	0.939	1.61	6 Aroclor 1248
4.293	1531367	1052784	0.687	1.93	
4.371	39732	29297	0.737	0.05	
4.417	1508379	1366603	0.906	1.90	
4.453	1029507	810607	0.787	1.30	
4.545	1977029	1795169	0.908	2.50	6 Aroclor 1248
4.590	83860	79830	0.952	0.10	
4.618	472418	392300	0.830	0.59	
4.679	82320	58530	0.711	0.10	
4.727	151841	86109	0.567	0.19	
4.768	271679	222605	0.819	0.34	
4.813	1086655	1013443	0.933	1.37	6 Aroclor 1248
4.847	1269348	1224805	0.965	1.60	
4.879	2412497	1580771	0.655	3.05	6 Aroclor 1248
4.957	342117	254744	0.745	0.43	
5.038	1472311	1301427	0.884	1.86	6 Aroclor 1248
5.100	896080	735882	0.821	1.13	
5.161	821991	702431	0.855	1.03	7 Aroclor 1254
5.212	723448	633666	0.876	0.91	
5.256	44347	33525	0.756	0.05	
5.285	166637	154861	0.929	0.21	
5.309	292598	231420	0.791	0.37	
5.363	460684	354980	0.771	0.58	
5.406	759742	682039	0.898	0.96	7 Aroclor 1254
5.451	1538940	1334541	0.867	1.94	
5.483	110599	134378	1.215	0.13	
5.510	1525941	1280702	0.839	1.92	7 Aroclor 1254
5.578	85617	63296	0.739	0.10	
5.605	306383	236980	0.773	0.38	
5.675	468065	437115	0.934	0.59	
5.710	273134	227102	0.831	0.34	
5.742	422428	311356	0.737	0.53	
5.790	2093342	1541465	0.736	2.64	
5.886	249883	157552	0.631	0.31	
5.932	208931	157129	0.752	0.26	
5.994	741035	716737	0.967	0.93	
6.025	902140	766779	0.850	1.14	7 Aroclor 1254
6.056	597957	531606	0.889	0.75	
6.083	91381	74250	0.813	0.11	
6.169	520408	328656	0.632	0.65	
6.227	140682	186016	1.322	0.17	
6.242	328001	248925	0.759	0.41	
6.301	2422493	1995117	0.824	3.06	8 Aroclor 1260
6.333	233423	212748	0.911	0.29	
6.374	119924	93306	0.778	0.15	
6.432	320349	248266	0.775	0.40	
6.511	1363090	1207424	0.886	1.72	
6.536	491860	475313	0.966	0.62	
6.561	282985	252834	0.893	0.35	
6.604	100657	85236	0.847	0.12	
6.661	103460	89889	0.869	0.13	
6.719	425868	385360	0.905	0.53	
6.759	432051	378717	0.877	0.54	
6.803	393966	353041	0.896	0.49	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	203468	170200	0.836	0.25	
6.912	65054	59620	0.916	0.08	
6.943	286486	270399	0.944	0.36	
7.005	1580347	1440022	0.911	1.99	8 Aroclor 1260
7.035	168884	118789	0.703	0.21	
7.122	58210	47784	0.821	0.07	
7.251	658139	601931	0.915	0.83	8 Aroclor 1260
7.281	193623	160557	0.829	0.24	
7.341	23116	18048	0.781	0.02	
7.390	695176	603947	0.869	0.87	
7.443	700440	620737	0.886	0.88	8 Aroclor 1260
7.552	35275	26859	0.761	0.04	
7.691	162701	149685	0.920	0.20	
7.727	287533	248418	0.864	0.36	
7.764	47390	34703	0.732	0.05	
7.807	174219	102148	0.586	0.22	
7.867	14481	15516	1.071	0.01	
7.900	470146	410393	0.873	0.59	8 Aroclor 1260
7.962	79901	44257	0.554	0.10	
8.050	128989	117304	0.909	0.16	
8.275	608714	551988	0.907	0.76	
8.377	21619	16297	0.754	0.02	
8.450	14365	12400	0.863	0.01	
8.571	9629547	8584355	0.891	12.17	$ 12 Decachlorobiphenyl
8.726	52399	50184	0.958	0.06	
8.947	15283	11048	0.723	0.01	
9.054	39613	30119	0.760	0.05	
9.168	146650	128971	0.879	0.18	
9.460	12569	7422	0.591	0.01	
9.698	9916	10271	1.036	0.01	
	79069619	68087786		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918008.D
Lab Smp Id: 1656284 Client Smp ID: CS1-170518-01-BB-06
Inj Date : 09-MAR-2018 14:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656284,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 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	10.005	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	11516560	0.09341	47			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1338306	0.52831	260	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1349532	0.53552	270	0.00- 20.00	100.84	BA
3.827	3.827	0.000	3992730	0.56106	280	0.00- 20.00	298.34	BA
3.929	3.929	0.000	1538517	0.50584	250	0.00- 20.00	114.96	BA
3.993	3.995	-0.002	1091428	0.53299	270	0.00- 20.00	81.55	BA
Average of Peak Concentrations =					270			

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                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (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
4.261    4.261    0.000         1276086 0.54464      270   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001         1977028 0.47636      240   0.00-  20.00   154.93         BA
4.813    4.812    0.001         1086655 0.53528      270   0.00-  20.00    85.16         BA
4.879    4.879    0.000         2412496 0.47891      240   0.00-  20.00   189.05         BA
5.037    5.038   -0.001         1472311 0.41028      200   0.00-  20.00   115.38         BA
               Average of Peak Concentrations =      240
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.160    5.162   -0.002          821990 0.15701       78   0.00-  20.00   100.00(M)      BA
5.406    5.408   -0.002          759741 0.17664       88   0.00-  20.00    92.43         BA
5.509    5.510   -0.001         1525941 0.19649       98   0.00-  20.00   185.64         BA
6.024    6.027   -0.003          902140 0.18526       92   0.00-  20.00   109.75         BA
6.299    6.299    0.000               0    0.00     0.00   0.00-  20.00     0.00         BA
               Average of Peak Concentrations =       89
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.300    6.300    0.000         2422493 0.27335      140   0.00-  20.00   100.00(M)      BA
7.005    7.006   -0.001         1580347 0.15781       79   0.00-  20.00    65.24         BA
7.251    7.251    0.000          658139 0.13769       69   0.00-  20.00    27.17         BA
7.443    7.443    0.000          700440 0.24028      120   0.00-  20.00    28.91         BA
7.900    7.901   -0.001          470145 0.17817       89   0.00-  20.00    19.41         BA
               Average of Peak Concentrations =       99
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.571    8.571    0.000         9629547 0.08789       44
-------------------------------------------------------------------------------
```

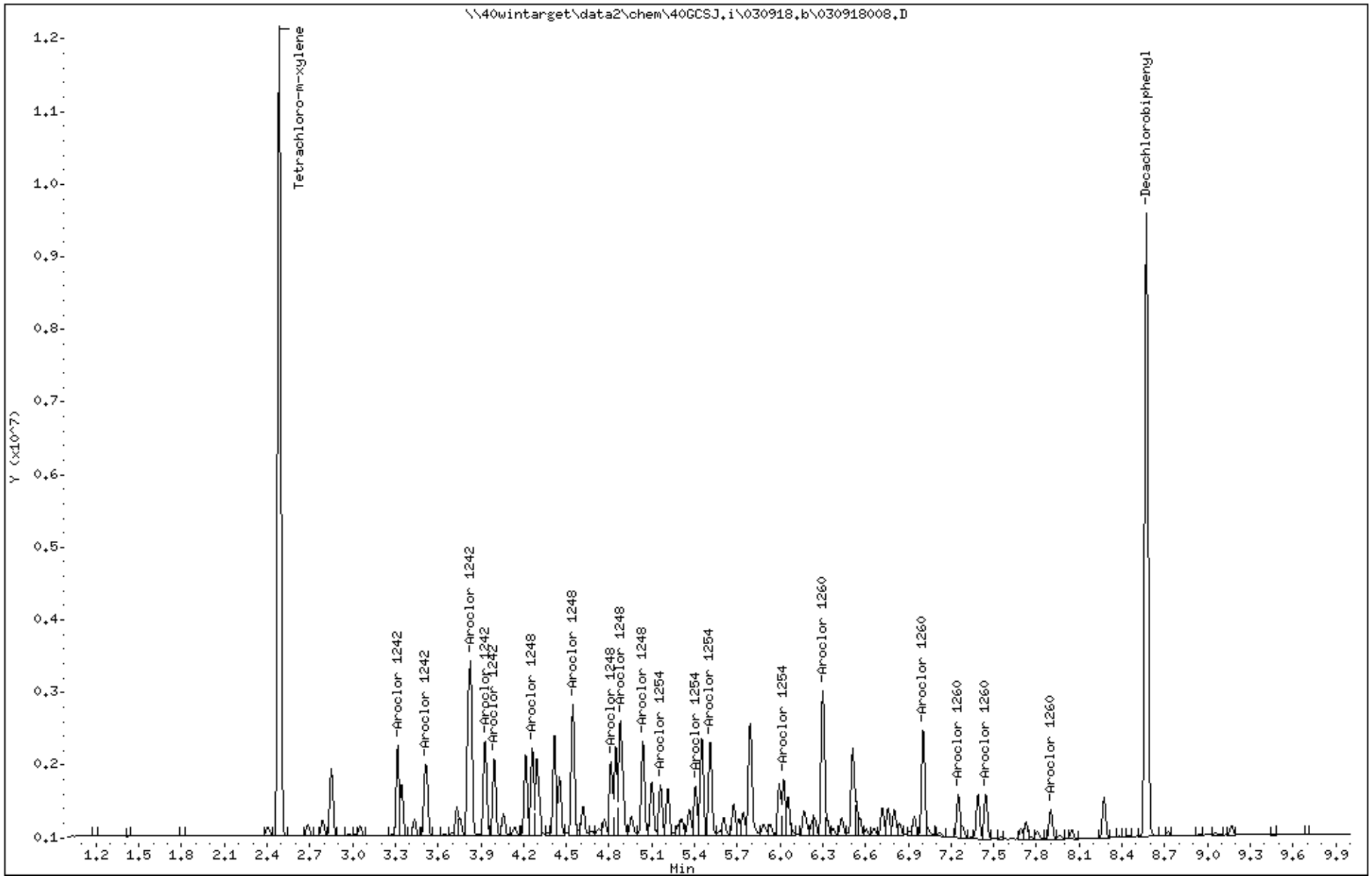
QC Flag Legend

M - Compound response manually integrated.

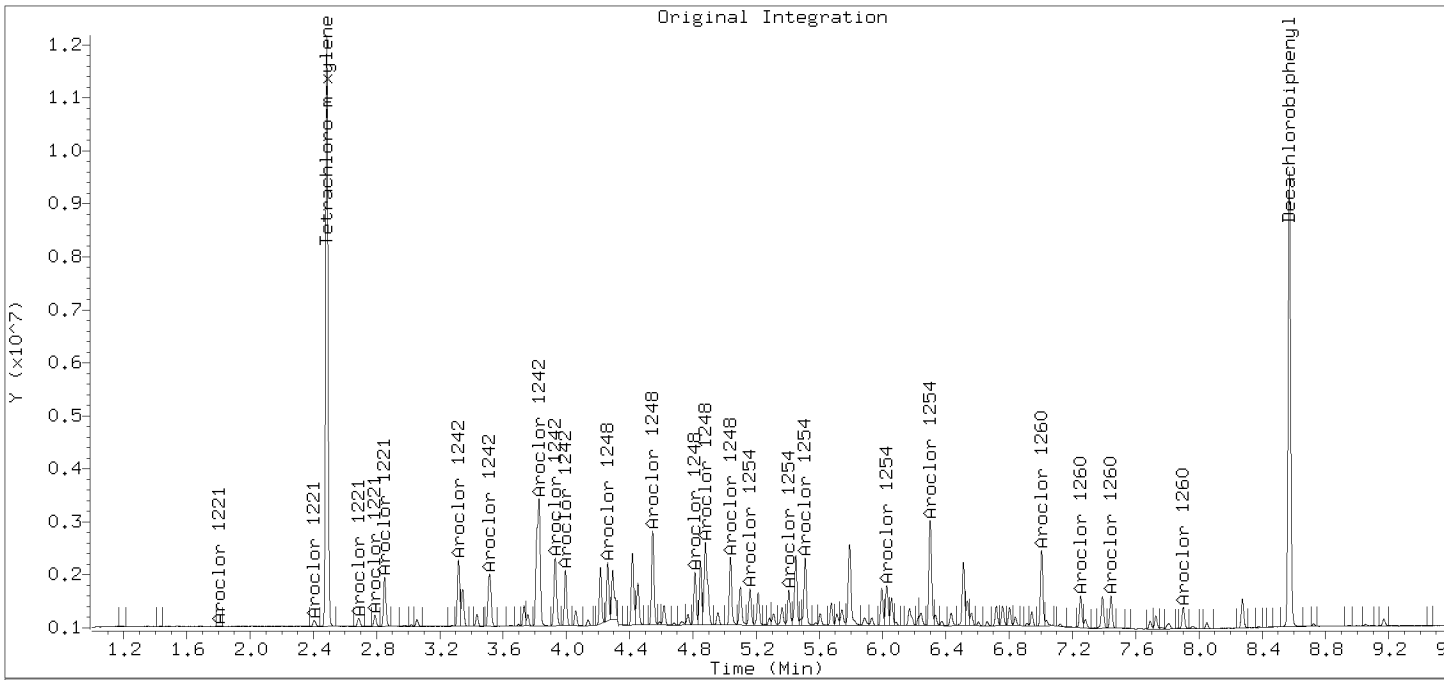
Review Codes Legend

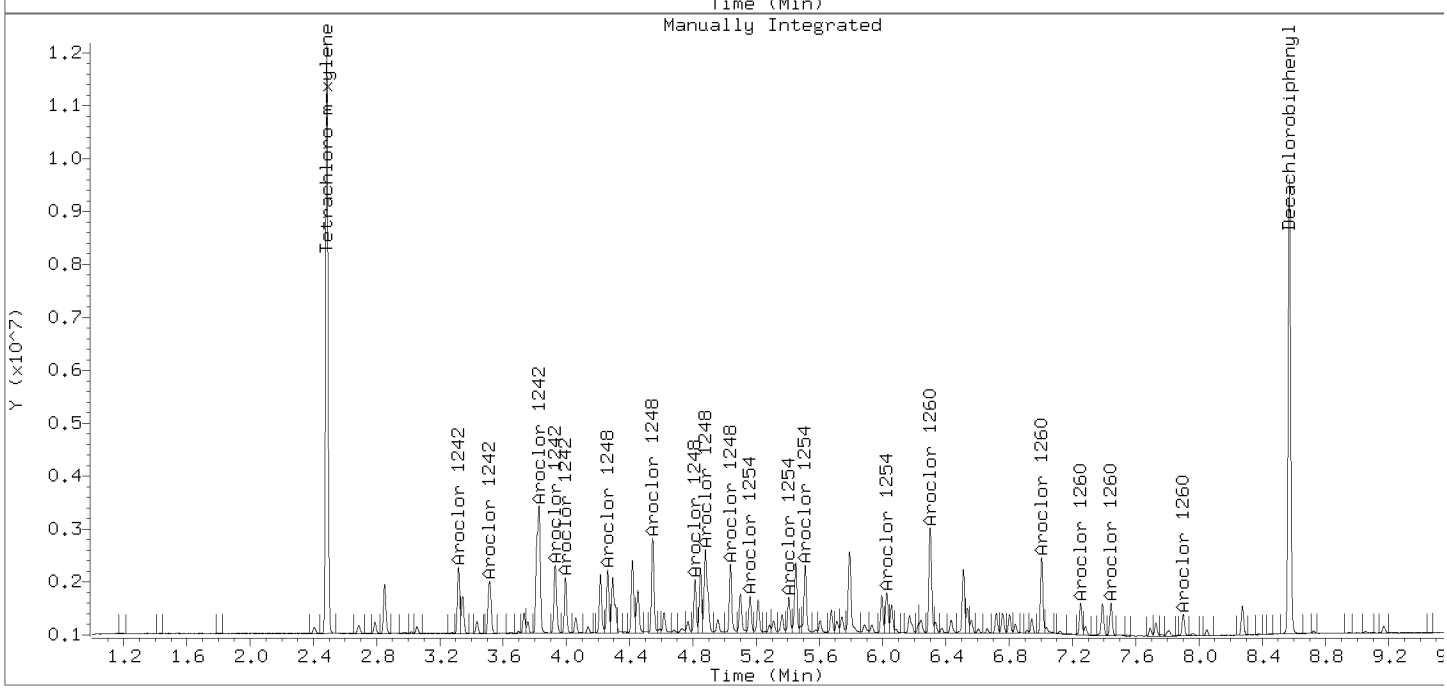
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918008.D
Date : 09-MAR-2018 14:27
Client ID: CS1-170518-01-BB-06
Instrument: 40GCSJ.i
Sample Info: 1656284,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 14:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1656284





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1327444	0	
Aroclor 1016	1327444	0	
Aroclor 1016	1327444	0	
Aroclor 1016	1327444	0	
Aroclor 1016	1327444	0	
Aroclor 1221	18077	0	
Aroclor 1221	18077	0	
Aroclor 1221	18077	0	
Aroclor 1221	18077	0	
Aroclor 1221	18077	0	
Aroclor 1232	994703	0	
Aroclor 1232	994703	0	
Aroclor 1232	994703	0	
Aroclor 1232	994703	0	

Aroclor 1232	994703	0	
Aroclor 1242	1327444	1338306	BA
Aroclor 1242	1327444	1338306	BA
Aroclor 1242	1327444	1338306	BA
Aroclor 1242	1327444	1338306	BA
Aroclor 1242	1327444	1338306	BA
Aroclor 1248	1065301	1276086	BA
Aroclor 1248	1065301	1276086	BA
Aroclor 1248	1065301	1276086	BA
Aroclor 1248	1065301	1276086	BA
Aroclor 1248	1065301	1276086	BA
Aroclor 1254	763571	821990	BA
Aroclor 1254	763571	821990	BA
Aroclor 1254	763571	821990	BA
Aroclor 1254	763571	821990	BA
Aroclor 1254	763571	821990	BA
Aroclor 1260	2376419	2422493	BA
Aroclor 1260	2376419	2422493	BA
Aroclor 1260	2376419	2422493	BA
Aroclor 1260	2376419	2422493	BA
Aroclor 1260	2376419	2422493	BA
Tetrachloro-m-xylene	11516560	11516560	
Decachlorobiphenyl	9629547	9629547	

==========

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 M

Date Received: 05/19/2017 10:05

Matrix: Tissue SDG No.: 40150294

Date Extracted: 03/08/2018 07:45

Lab Sample ID: 1656285

Date Analyzed: 03/09/2018 19:12

Lab File ID: 030918.B\030918026.D

Initial wt/vol: 10.0228 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)	96.6	
11097-69-1	PCB-1254 (Aroclor 1254)	66.6	
11096-82-5	PCB-1260 (Aroclor 1260)	108	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918026.D
Lab Smp Id: 1656285 Client Smp ID: CS1-170518-01-BB-06
Inj Date : 09-MAR-2018 19:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656285,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26 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	10.023	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	13457	8692	0.646	0.02		
1.151	9981	8916	0.893	0.01		
1.358	15634	9985	0.639	0.02		
1.431	12598	10457	0.830	0.02		
1.540	9805	10254	1.046	0.01		
2.202	15938	9291	0.583	0.02		
2.293	19521	14048	0.720	0.03		
2.409	24970	23982	0.960	0.04		
2.485	11179910	11093226	0.992	20.37	$ 2 Tetrachloro-m-xylene	
2.789	25188	20434	0.811	0.04		
2.857	36204	26619	0.735	0.06		
2.923	10179	9704	0.953	0.01		
2.974	37181	24240	0.652	0.06		
3.021	35703	33275	0.932	0.06		
3.053	13703	13686	0.999	0.02		
3.318	92846	92938	1.001	0.16		
3.345	48862	45725	0.936	0.08		
3.400	14843	14178	0.955	0.02		
3.433	54112	45252	0.836	0.09		
3.517	117290	101490	0.865	0.20		
3.645	13684	11829	0.864	0.02		
3.732	109429	92115	0.842	0.19		
3.827	652353	466138	0.715	1.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.933	61829	33703	0.545	0.10	
3.993	105978	101696	0.960	0.18	
4.058	75241	57531	0.765	0.13	
4.137	33300	20444	0.614	0.05	
4.215	413273	358877	0.868	0.72	
4.261	563644	552208	0.980	0.99	6 Aroclor 1248
4.292	965580	805821	0.835	1.70	
4.417	465103	440689	0.948	0.82	
4.452	218645	194624	0.890	0.38	
4.544	672077	641862	0.955	1.18	6 Aroclor 1248
4.589	62242	50297	0.808	0.10	
4.617	108756	97989	0.901	0.19	
4.681	53939	39103	0.725	0.09	
4.737	58944	43927	0.745	0.10	
4.767	166840	145731	0.873	0.29	
4.813	513886	492694	0.959	0.90	6 Aroclor 1248
4.848	191979	182341	0.950	0.33	
4.878	1175072	713842	0.607	2.07	6 Aroclor 1248
4.956	183408	147250	0.803	0.32	
5.036	284740	261620	0.919	0.50	6 Aroclor 1248
5.055	41695	40444	0.970	0.07	
5.101	684354	594575	0.869	1.20	
5.159	605718	521895	0.862	1.06	7 Aroclor 1254
5.213	586262	491326	0.838	1.03	
5.284	153621	141276	0.920	0.27	
5.310	230072	200294	0.871	0.40	
5.362	289535	232091	0.802	0.51	
5.405	505099	470830	0.932	0.89	7 Aroclor 1254
5.452	1515903	1426785	0.941	2.67	
5.478	88781	99116	1.116	0.15	
5.510	1152036	1022330	0.887	2.03	7 Aroclor 1254
5.575	67628	54165	0.801	0.11	
5.604	150902	125441	0.831	0.26	
5.675	457829	421214	0.920	0.80	
5.710	246091	209581	0.852	0.43	
5.742	404775	313819	0.775	0.71	
5.790	1942329	1529839	0.788	3.42	
5.883	214304	142389	0.664	0.37	
5.931	184096	159722	0.868	0.32	
5.994	793778	745924	0.940	1.40	
6.026	741780	646609	0.872	1.30	7 Aroclor 1254
6.055	622229	534205	0.859	1.09	
6.169	533617	351437	0.659	0.94	
6.227	140154	199398	1.423	0.24	
6.242	345588	263916	0.764	0.61	
6.300	2590912	2133828	0.824	4.57	8 Aroclor 1260
6.334	239428	218290	0.912	0.42	
6.372	123230	93218	0.756	0.21	
6.432	331719	260443	0.785	0.58	
6.510	1428388	1263548	0.885	2.52	
6.535	527199	529286	1.004	0.93	
6.561	296455	264113	0.891	0.52	
6.605	115142	99907	0.868	0.20	
6.660	104786	92506	0.883	0.18	
6.717	445974	393970	0.883	0.78	
6.758	452270	411491	0.910	0.79	
6.800	435326	399093	0.917	0.76	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	223828	175237	0.783	0.39	
6.913	72360	63460	0.877	0.12	
6.942	324296	311376	0.960	0.57	
7.005	1746709	1585581	0.908	3.08	8 Aroclor 1260
7.035	150611	127640	0.847	0.26	
7.077	21616	24857	1.150	0.03	
7.119	47759	43354	0.908	0.08	
7.250	737219	688367	0.934	1.30	8 Aroclor 1260
7.281	216750	178774	0.825	0.38	
7.332	22961	17720	0.772	0.04	
7.389	762475	672439	0.882	1.34	
7.442	758164	679201	0.896	1.33	8 Aroclor 1260
7.496	44249	18981	0.429	0.07	
7.550	27283	25890	0.949	0.04	
7.690	173949	169452	0.974	0.30	
7.726	301952	262521	0.869	0.53	
7.764	42078	33825	0.804	0.07	
7.809	174754	110693	0.633	0.30	
7.866	14109	15405	1.092	0.02	
7.899	535781	477901	0.892	0.94	8 Aroclor 1260
7.961	82071	51544	0.628	0.14	
8.049	157386	142550	0.906	0.27	
8.179	10585	10126	0.957	0.01	
8.274	673425	607292	0.902	1.18	
8.379	20475	17154	0.838	0.03	
8.453	23901	17019	0.712	0.04	
8.570	10125632	9019416	0.891	17.87	$ 12 Decachlorobiphenyl
8.637	13191	11744	0.890	0.02	
8.701	10926	12918	1.182	0.01	
8.724	77240	58797	0.761	0.13	
8.943	19369	14204	0.733	0.03	
8.991	12032	8124	0.675	0.02	
9.052	50288	40340	0.802	0.08	
9.168	171672	157501	0.917	0.30	
9.466	14265	12124	0.850	0.02	
9.544	10420	5875	0.564	0.01	
9.699	14918	11518	0.772	0.02	
9.738	14403	10670	0.741	0.02	
9.959	20437	16776	0.821	0.03	
	56648406	50575403		100.000	

Total unknown % area = 40

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918026.D
Lab Smp Id: 1656285 Client Smp ID: CS1-170518-01-BB-06
Inj Date : 09-MAR-2018 19:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1656285,
Misc Info : 17511,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030918.b\pcba030618.m
Meth Date : 27-Mar-2018 14:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26 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	10.023	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11179909	0.09068	45			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	563644	0.24057	120	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	672076	0.16193	81	0.00- 20.00	119.24	CO
4.812	4.812	0.000	513886	0.25314	130	0.00- 20.00	91.17	CO
4.877	4.879	-0.002	1175072	0.23327	120	0.00- 20.00	208.48	CO
5.036	5.038	-0.002	284739	0.07935	40	0.00- 20.00	50.52	CO
Average of Peak Concentrations =					97			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	605717	0.11570	58	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	505099	0.11744	58	0.00- 20.00	83.39	BA
5.510	5.510	0.000	1152036	0.14834	74	0.00- 20.00	190.19	BA
6.025	6.027	-0.002	741779	0.15233	76	0.00- 20.00	122.46	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					66			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2590912	0.29235	140	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1746708	0.17442	87	0.00- 20.00	67.42	BA
7.249	7.251	-0.002	737219	0.15424	77	0.00- 20.00	28.45	BA
7.441	7.443	-0.002	758163	0.26008	130	0.00- 20.00	29.26	BA
7.899	7.901	-0.002	535780	0.20304	100	0.00- 20.00	20.68	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10125631	0.09242	46			

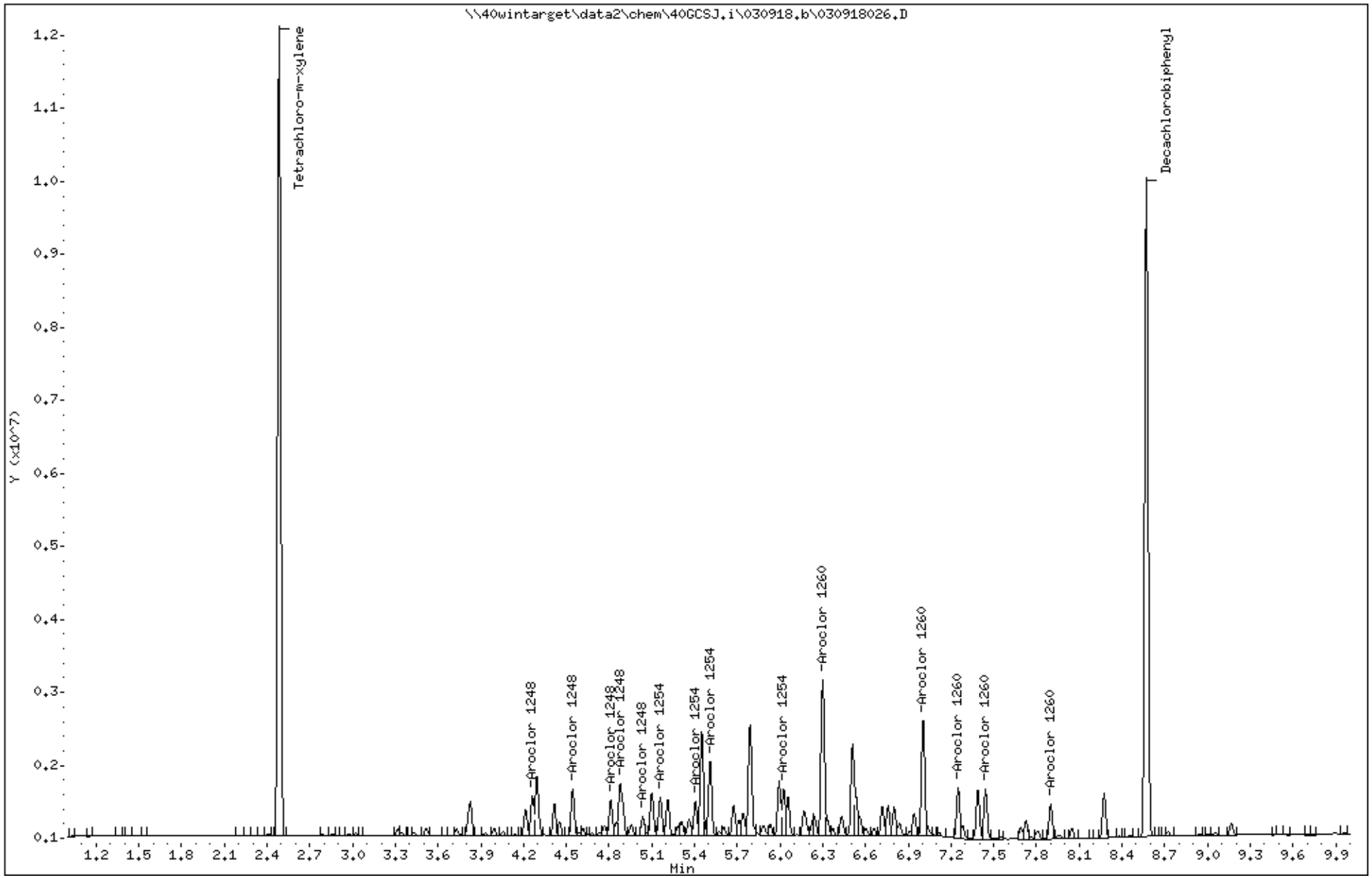
QC Flag Legend

M - Compound response manually integrated.

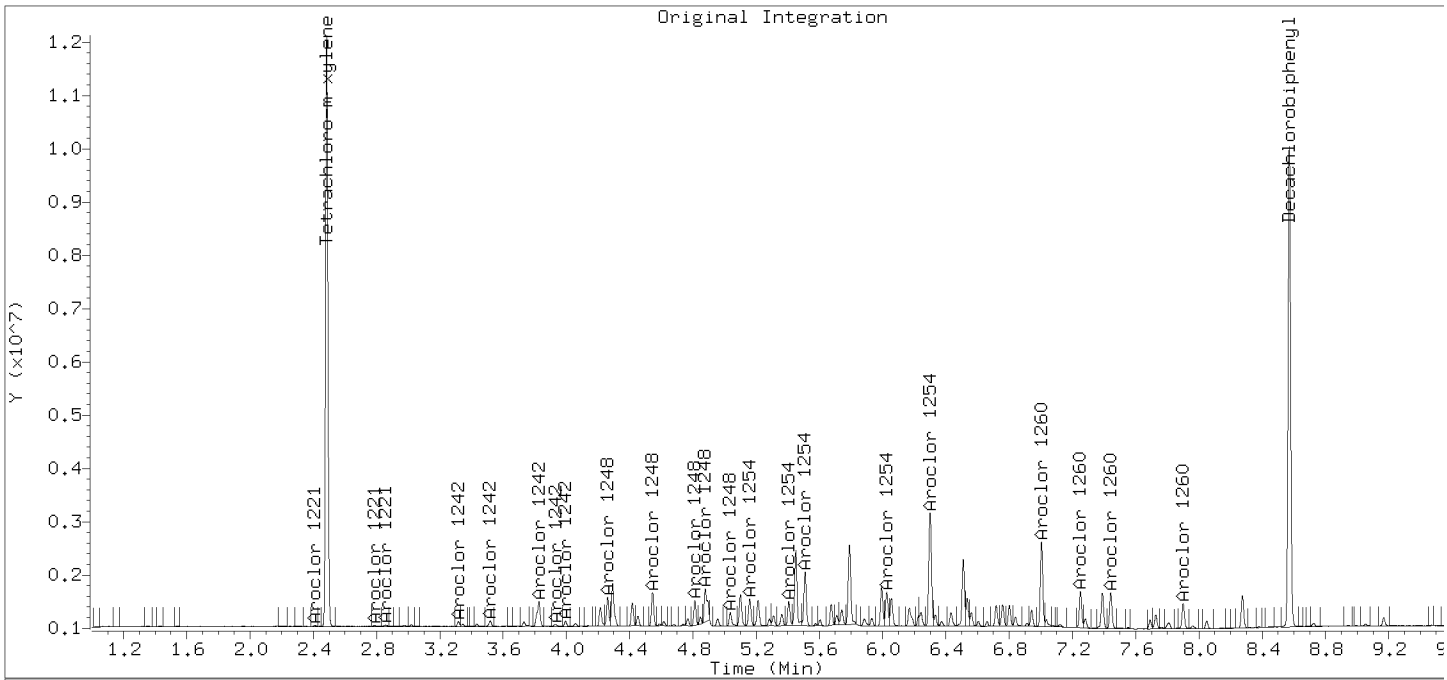
Review Codes Legend

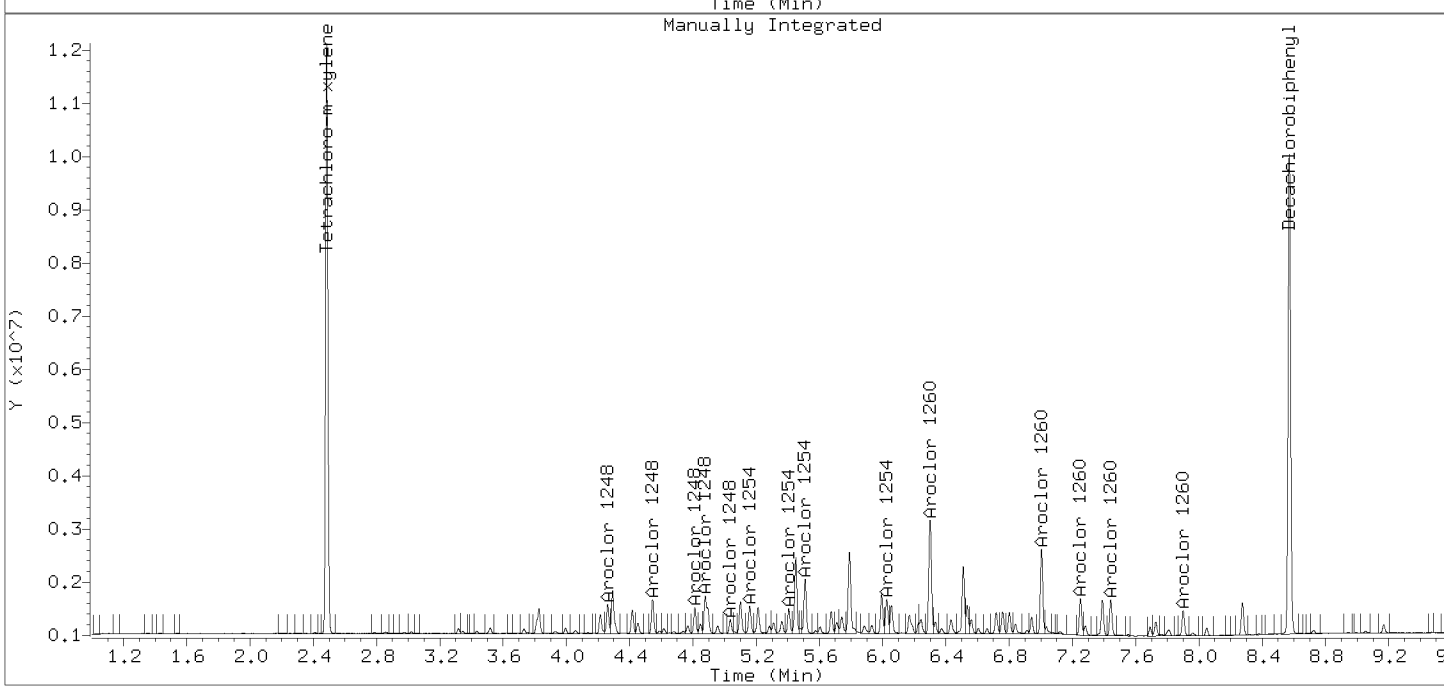
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b\030918026.D
Date : 09-MAR-2018 19:12
Client ID: CS1-170518-01-BB-06
Instrument: 40GCSJ.i
Sample Info: 1656285,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030918.b/030918026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 09-MAR-2018 19:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1656285





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	92845	0	
Aroclor 1016	92845	0	
Aroclor 1016	92845	0	
Aroclor 1016	92845	0	
Aroclor 1016	92845	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	36204	0	
Aroclor 1232	36204	0	
Aroclor 1232	36204	0	
Aroclor 1232	36204	0	

Aroclor 1232	36204	0	
Aroclor 1242	92845	0	
Aroclor 1242	92845	0	
Aroclor 1242	92845	0	
Aroclor 1242	92845	0	
Aroclor 1242	92845	0	
Aroclor 1248	545443	563644	CO
Aroclor 1248	545443	563644	CO
Aroclor 1248	545443	563644	CO
Aroclor 1248	545443	563644	CO
Aroclor 1248	545443	563644	CO
Aroclor 1254	562828	605717	BA
Aroclor 1254	562828	605717	BA
Aroclor 1254	562828	605717	BA
Aroclor 1254	562828	605717	BA
Aroclor 1254	562828	605717	BA
Aroclor 1260	2554535	2590912	BA
Aroclor 1260	2554535	2590912	BA
Aroclor 1260	2554535	2590912	BA
Aroclor 1260	2554535	2590912	BA
Aroclor 1260	2554535	2590912	BA
Tetrachloro-m-xylene	11179909	11179909	
Decachlorobiphenyl	10125631	10125631	

==========

Prep Log Report

Batch Information: OEXT 282714 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/08/2018 07:45:04:187
Spiked By	AMC	Spiked By Date/Time	03/08/2018 07:45:05	Witnessed By	ETB	Witnessed By Date/Time	03/08/2018 07:45:05
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane	188917	Sodium Sulfate	188340	Florisil	186910	3620B Date/Initials	3/9/18 AMC
H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/9/18 AMC	Tuna	None Added	Reviewed By	BLM
Reviewed By Date	03/23/2018 13:39	Batch Notes	Hex/Ace 50:50-190827				

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	**1656282**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1656283**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40150294001**	9.974	5	3		189973 (.25)	
8082A TNYP	PS	**40150294002**	10.0388	5	3		189973 (.25)	
8082A TNYP	PS	**40150294003**	10.0364	5	3		189973 (.25)	
8082A TNYP	PS	**40150294004**	9.9726	5	3		189973 (.25)	
8082A TNYP	PS	**40150294005**	9.9833	5	3		189973 (.25)	
8082A TNYP	PS	**40150294006**	10.0033	5	3		189973 (.25)	
8082A TNYP	PS	**40150294007**	9.9677	5	3		189973 (.25)	
8082A TNYP	PS	**40150294008**	9.9879	5	3		189973 (.25)	
8082A TNYP	PS	**40150294009**	9.9723	5	3		189973 (.25)	
8082A TNYP	PS	**40150294010**	9.9856	5	3		189973 (.25)	
8082A TNYP	PS	**40150294011**	10.0213	5	3		189973 (.25)	
8082A TNYP	PS	**40150294012**	10.0001	5	3		189973 (.25)	
8082A TNYP	PS	**40150294013**	9.9705	5	3		189973 (.25)	
8082A TNYP	PS	**40150294014**	9.9746	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	RQS	**40150294015**	10.0089	5	3		189973 (.25)	
8082A TNYP	MS	**1656284**	10.005	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1656285**	10.0228	5	3		189973 (.25)	
8082A TNYP	PS	**40150294016**	10.0243	5	3		189973 (.25)	
8082A TNYP	PS	**40150294017**	10.0025	5	3		189973 (.25)	
8082A TNYP	PS	**40150294018**	9.9684	5	3		189973 (.25)	
8082A TNYP	PS	**40150294019**	9.9746	5	3		189973 (.25)	
8082A TNYP	PS	**40150294020**	10.0097	5	3		189973 (.25)	

Standard Notes:

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

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         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\030918\
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  1656282MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1656283LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1656284MS
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40150294-001
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40150294-002
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40150294-003
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40150294-004
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40150294-005
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40150294-006
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40150294-007
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40150294-008
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40150294-009
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40150294-010
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40150294-011
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40150294-012
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40150294-013
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40150294-014
     Datafile           --------

  Last Modified: Fri Mar 09 10:06:33 2018                Page:  1
```

GE BIOTA

BLK 3/15/18

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Read and Understood By

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

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      Method              SCREEN2014
20) Sample        20  40150294-015P
      Datafile            --------
      Method              SCREEN2014
21) RearSamp      21  1656285DUP
      Datafile            --------
      Method              SCREEN2014
22) Sample        22  40150294-016
      Datafile            --------
      Method              SCREEN2014
23) RearSamp      23  40150294-017
      Datafile            --------
      Method              SCREEN2014
24) Sample        24  40150294-018
      Datafile            --------
      Method              SCREEN2014
25) RearSamp      25  40150294-019
      Datafile            --------
      Method              SCREEN2014
26) Sample        26  40150294-020
      Datafile            --------
      Method              SCREEN2014
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Last Modified: Fri Mar 09 10:06:33 2018 Page: 2

BLM 3/15/18

Continued on Page

Read and Understood By

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

PROJECT 40GCSJ/K 03/06/18

Notebook No. 4417

Continued from Page —

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        Operator: BLM
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Data Analysis       Pre-Seq Cmd:

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

    Method Sections To Run       Sequence Barcode Options
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    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
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   Line                    Sample Name/Misc Info
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     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
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     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

   Last Modified: Tue Mar 06 10:58:59 2018                  Page:  1
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Read and Understood By

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

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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
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      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
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      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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```

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

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

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

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Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

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

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```

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Read and Understood By

Signed: Bryan Meyer Date: 3/7/18 Signed: [illegible] Date: 3/7/18

```
Sequence Name: C:\msdchem\1\sequence\030918.s
      Comment:
     Operator: BLM
    Data Path: C:\MSDCHEM\1\DATA\030918\
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		030918001
Method		GEBIOTA2017
2) Sample	2	HEXANE
Datafile		030918002
Method		GEBIOTA2017
3) Sample	3	HEXANE
Datafile		030918003
Method		GEBIOTA2017
4) Sample	4	1254-CCV,185554:1,17498,AR125 ok
Datafile		030918004
Method		GEBIOTA2017
5) Sample	5	1254-CCV,185554:1,17498,AR125 ok
Datafile		030918005
Method		GEBIOTA2017
6) Sample	6	1656282,,17511,BIOTA
Datafile		030918006
Method		GEBIOTA2017
7) Sample	7	1656283,,17511,BIOTA
Datafile		030918007
Method		GEBIOTA2017
8) Sample	8	1656284,,17511,BIOTA
Datafile		030918008
Method		GEBIOTA2017
9) Sample	9	40150294001,,17511,BIOTA
Datafile		030918009
Method		GEBIOTA2017
10) Sample	10	40150294002,,17511,BIOTA
Datafile		030918010
Method		GEBIOTA2017
11) Sample	11	40150294003,,17511,BIOTA
Datafile		030918011
Method		GEBIOTA2017
12) Sample	12	40150294004,,17511,BIOTA
Datafile		030918012
Method		GEBIOTA2017
13) Sample	13	40150294005,,17511,BIOTA
Datafile		030918013
Method		GEBIOTA2017
14) Sample	14	40150294006,,17511,BIOTA
Datafile		030918014
Method		GEBIOTA2017
15) Sample	15	40150294007,,17511,BIOTA
Datafile		030918015
Method		GEBIOTA2017
16) Sample	16	1660-CCV,185559:1,17498,AR166 ok
Datafile		030918016
Method		GEBIOTA2017
17) Sample	17	1660-CCV,185559:1,17498,AR166 ok
Datafile		030918017
Method		GEBIOTA2017
18) Sample	18	40150294008,,17511,BIOTA
Datafile		030918018
Method		GEBIOTA2017
19) Sample	19	40150294009,,17511,BIOTA
Datafile		030918019

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Read and Understood By

Signed 3/13/18 Date

Signed 3/13/18 Date

```
      Method              GEBIOTA2017
20) Sample          20  40150294010,,17511,BIOTA RS
      Datafile            030918020
      Method              GEBIOTA2017
21) Sample          21  40150294011,17511,BIOTA
      Datafile            030918021
      Method              GEBIOTA2017
22) Sample          22  40150294012,,17511,BIOTA
      Datafile            030918022
      Method              GEBIOTA2017
23) Sample          23  40150294013,,17511,BIOTA
      Datafile            030918023
      Method              GEBIOTA2017
24) Sample          24  40150294014,,17511,BIOTA
      Datafile            030918024
      Method              GEBIOTA2017
25) Sample          25  40150294015,,17511,BIOTA
      Datafile            030918025
      Method              GEBIOTA2017
26) Sample          26  1656285,,17511,BIOTA
      Datafile            030918026
      Method              GEBIOTA2017
27) Sample          27  40150294016,,17511,BIOTA
      Datafile            030918027
      Method              GEBIOTA2017
28) Sample          28  1221-CCV,185538:1,17498,AR122 ok
      Datafile            030918028
      Method              GEBIOTA2017
29) Sample          29  1221-CCV,185538:1,17498,AR122 ok
      Datafile            030918029
      Method              GEBIOTA2017
30) Sample          30  40150294017,,17511,BIOTA
      Datafile            030918030
      Method              GEBIOTA2017
31) Sample          31  40150294018,,17511,BIOTA
      Datafile            030918031
      Method              GEBIOTA2017
32) Sample          32  40150294019,,17511,BIOTA
      Datafile            030918032
      Method              GEBIOTA2017
33) Sample          33  40150294020,,17511,BIOTA
      Datafile            030918033
      Method              GEBIOTA2017
34) Sample          34  1232-CCV,185539:1,17498,AR123 ok
      Datafile            030918034
      Method              GEBIOTA2017
35) Sample          35  1232-CCV,185539:1,17498,AR123 ok
      Datafile            030918035
      Method              GEBIOTA2017
```

DATA was ran on 40GCSI Screener 03/09/18

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Read and Understood By

Signed 3/13/18 Date Signed 3/13/18 Date

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

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

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

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```

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Read and Understood By

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

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

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```

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Read and Understood By

Signed 3/26/18 Date

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

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

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

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Read and Understood By

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

Standard Log Report

Standards Log Information for Standard #190827

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/08/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/14/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #190827

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

Composed of Information for Standard #190827

Composed of Standard Seq	Volume	Units
188917	2000	mL
184471	2000	mL

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

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188340

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	02/01/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #188340

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

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

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

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

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

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

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

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

Composed of Information for Standard #185565

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

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

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

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

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

Composed of Information for Standard #185564

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

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

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

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

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

Composed of Information for Standard #185563

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

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

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

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

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

Composed of Information for Standard #185562

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

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

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

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

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

Composed of Information for Standard #185561

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

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

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

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

Composed of Information for Standard #185560

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

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

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

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

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

Composed of Information for Standard #185559

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

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

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

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

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

Composed of Information for Standard #185558

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

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

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

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

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

Composed of Information for Standard #185556

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

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

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

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

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

Composed of Information for Standard #185555

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

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

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

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 #184471

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405651
Create Date:	12/11/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/14/2018	**Manufacturer Lot ID:**	DQ692	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #184471

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 #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		

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		

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

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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Date Received: _____

Certificate of Analysis

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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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1221	1,008.4 µg/mL	+/- 5.9179 µg/mL	Gravimetric
	CAS # 11104-28-2 (Lot 2781200)		+/- 31.9602 µg/mL	Unstressed
	Purity ----%		+/- 41.7506 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
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Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

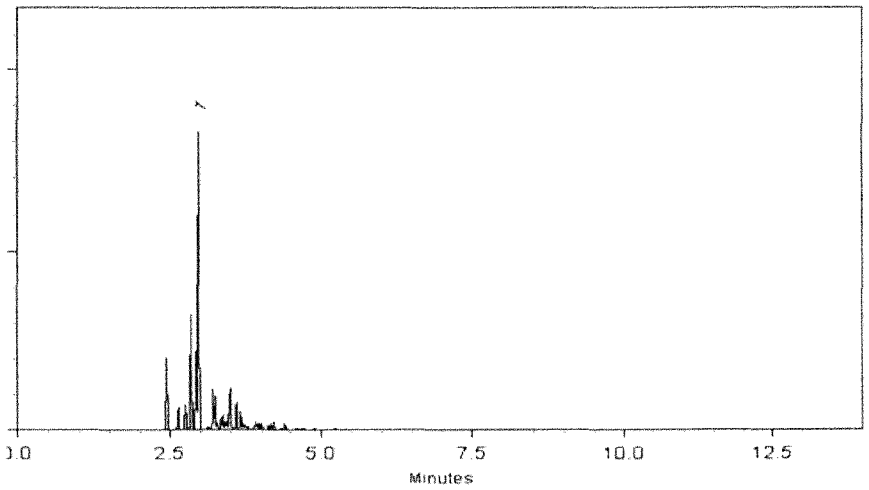
Carrier Gas:
helium-constant pressure 20 psi.

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

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

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

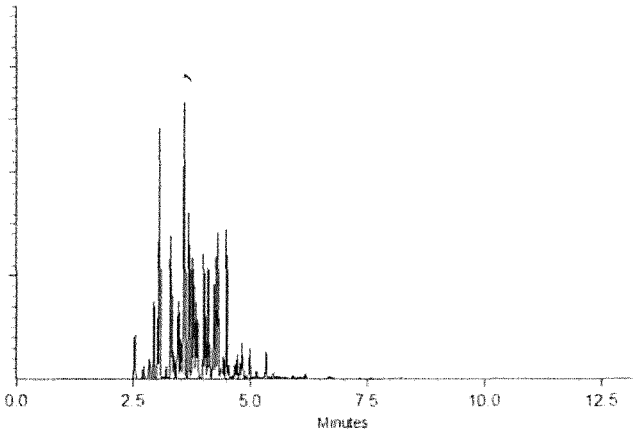
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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Certificate #FM 80397

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

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

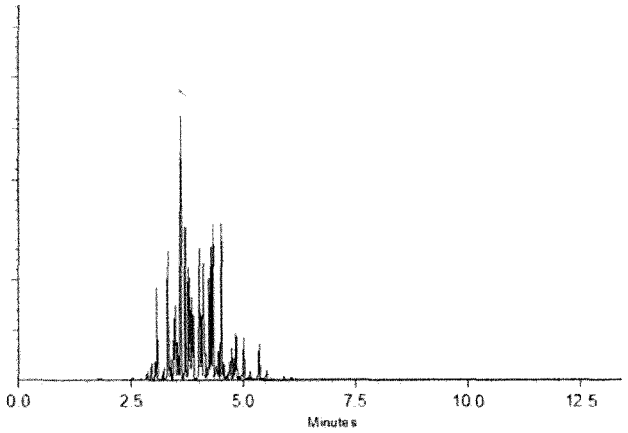
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

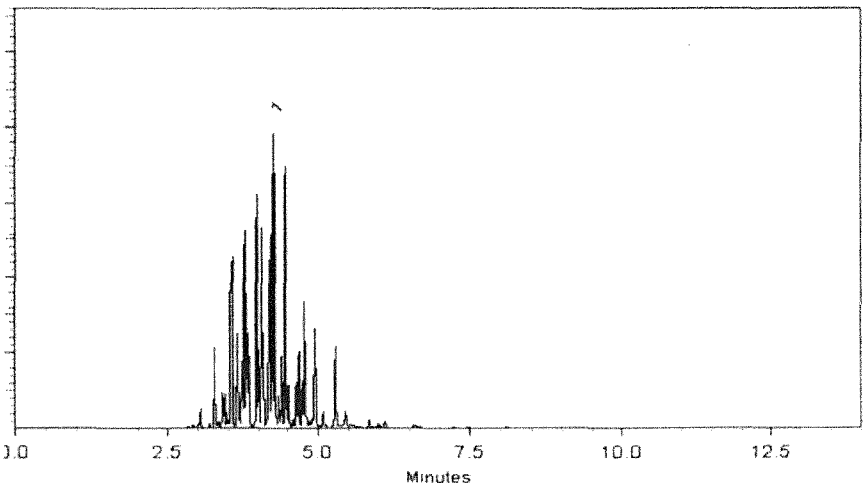
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

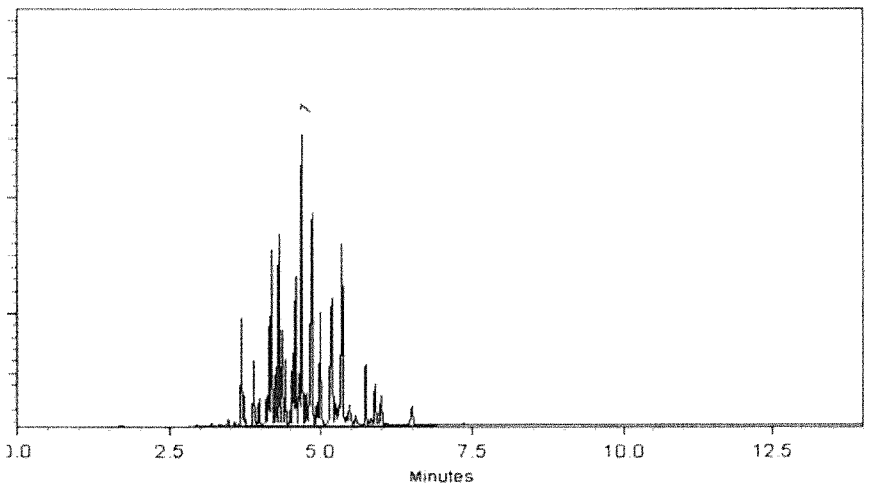
Carrier Gas:
helium-constant pressure 20 psi.

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)

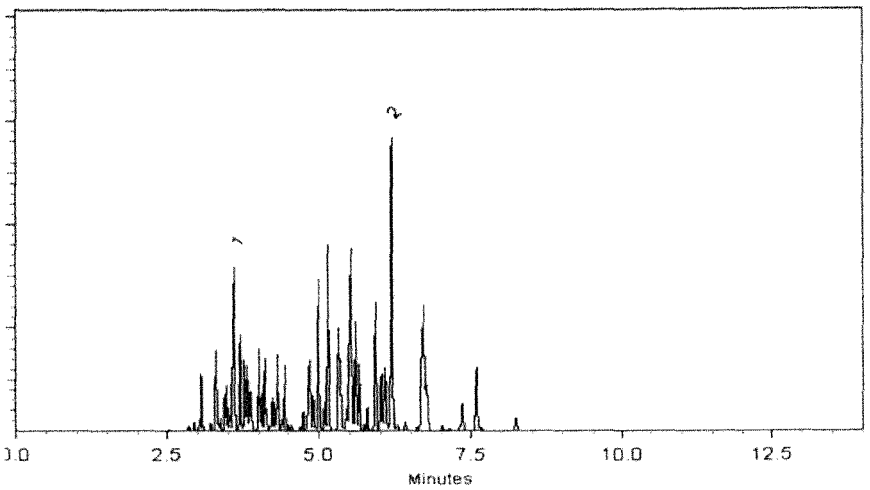
Carrier Gas:
helium-constant pressure 20 psi.

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
Cathleen Soltis - Mix Technician

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

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
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Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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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)

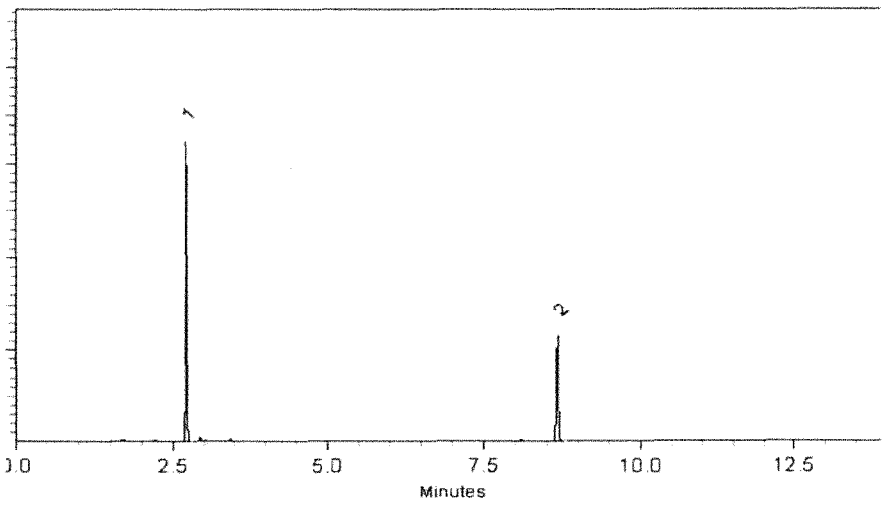
Carrier Gas:
helium-constant pressure 20 psi.

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 --

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Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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

o2si smart solutions®

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

405651

REC. 12/07/17 BY MRN
Exp. __/__/__ By __

9/13/2016

Honeywell

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

Certificate of Analysis

Product:	Acetone
Cat:	010
Lot:	DQ692
Date of Manufacture:	9/13/16
Use Before Date:	3/14/18

Test	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.25	%
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	0.0482	AU
UV Absorbance @ 350 nm		0.010	0.0018	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Quality Control Approval

Janna Dickinson

LIMS Sample No.: AH03488

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

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

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Pesticide Surrogate Mix

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

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

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

Handling: Contains PCBs - sonicate prior to use.

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

CERTIFIED VALUES

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

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

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

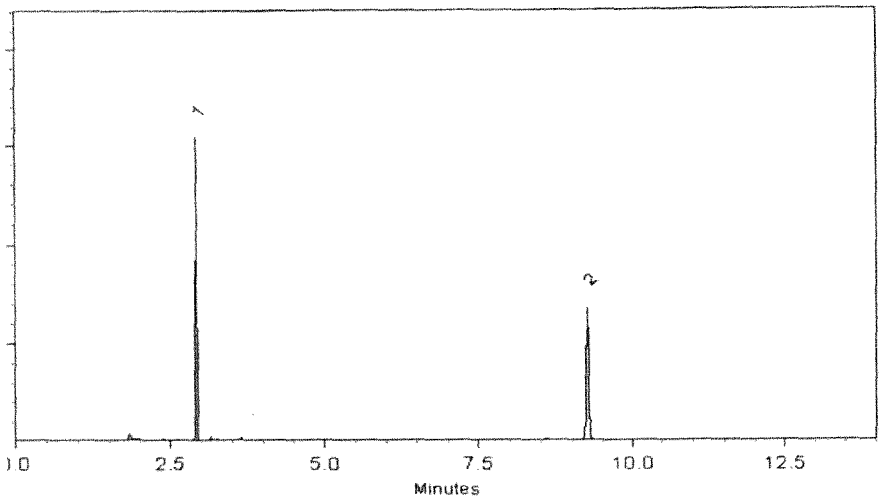
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

CS1-170518-01-BB-20

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.67		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-18

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.0		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.2		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.7		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.81		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.3		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.72		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	03/09/2018 08:05

SAMPLE NO.

CS1-170518-01-BB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150294020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.71		%	1	03/09/2018 08:05

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1656999	C
Lipid									<0.030	U

SAMPLE NO.

1657000DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40150294 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.1	1.0	11

Prep Log Report

Batch Information: OEXT 282883 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 12:57				

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	**1657001**	Y	-0.005000	03/09/2018 08:05:08		10	5	1	0.9339	0.9338	M	
LIPID	BLANK	**1656999**	Y	0.005000	03/09/2018 08:05:08		10	5	1	0.9257	0.9258	M	
LIPID	PS	**40150294001**	Y	0.6717	03/09/2018 08:05:08		9.974	5	1	0.929	0.9424	M	
LIPID	PS	**40150294002**	Y	1.235	03/09/2018 08:05:08		10.0388	5	1	0.9252	0.95	M	
LIPID	PS	**40150294003**	Y	1.071	03/09/2018 08:05:08		10.0364	5	1	0.927	0.9485	M	
LIPID	PS	**40150294004**	Y	1.429	03/09/2018 08:05:08		9.9726	5	1	0.9273	0.9558	M	
LIPID	PS	**40150294005**	Y	1.157	03/09/2018 08:05:08		9.9833	5	1	0.9273	0.9504	M	
LIPID	PS	**40150294006**	Y	2.014	03/09/2018 08:05:08		10.0033	5	1	0.9279	0.9682	M	
LIPID	PS	**40150294007**	Y	2.232	03/09/2018 08:05:08		9.9677	5	1	0.9332	0.9777	M	
LIPID	PS	**40150294008**	Y	1.712	03/09/2018 08:05:08		9.9879	5	1	0.928	0.9622	M	
LIPID	PS	**40150294009**	Y	0.8072	03/09/2018 08:05:08		9.9723	5	1	0.9283	0.9444	M	
LIPID	PS	**40150294010**	Y	1.167	03/09/2018 08:05:08		9.9856	5	1	0.9277	0.951	M	
LIPID	PS	**40150294011**	Y	1.088	03/09/2018 08:05:08		10.0213	5	1	0.9253	0.9471	M	
LIPID	PS	**40150294012**	Y	1.275	03/09/2018 08:05:08		10.0001	5	1	0.9254	0.9509	M	
LIPID	PS	**40150294013**	Y	1.023	03/09/2018 08:05:08		9.9705	5	1	0.9252	0.9456	M	
LIPID	PS	**40150294014**	Y	2.657	03/09/2018 08:05:08		9.9746	5	1	0.9239	0.9769	M	
LIPID	RQS	**40150294015**	Y	1.129	03/09/2018 08:05:08		10.0089	5	1	0.9262	0.9488	M	
LIPID	DUP	**1657000**	Y	1.013	03/09/2018 08:05:08		10.0228	5	1	0.9276	0.9479	M	
LIPID	PS	**40150294016**	Y	2.304	03/09/2018 08:05:08		10.0243	5	1	0.9262	0.9724	M	

Prep Log Report

40150294

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40150294017**	Y	1.145	03/09/2018 08:05:08		10.0025	5	1	0.9271	0.95	M	
LIPID	PS	**40150294018**	Y	0.7223	03/09/2018 08:05:08		9.9684	5	1	0.9256	0.94	M	
LIPID	PS	**40150294019**	Y	1.419	03/09/2018 08:05:08		9.9746	5	1	0.9265	0.9548	M	
LIPID	PS	**40150294020**	Y	0.7093	03/09/2018 08:05:08		10.0097	5	1	0.925	0.9392	M	
LIPID	MS	**1682441**	Y	1.050	03/09/2018 08:05:08		10.005	5	1	.9238	0.9448	M	

40150294

Client Name: GE
Project #: 40150294
Date/Time Removed to Thaw: 02-14-18
Date/Time Prepped: 02-15-18
Prepped by: CWN
Location: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4407

Sample ID	Sample Type (Fish, Eggs, etc.)	Scales/Skin Removed (Y/N)	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/I[3]	Fillet Weight (g)	Left/Both Fillet[1]?	Container Code[2]	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Composite Sample (> 1 per Sample ID) (Y/N)	Sample Comments
1	Fish	Y	F	Y	143.6	Y	F	34.4	Left / Both	4AG	Y	32.3	N	GRIND
2	Fish	Y	F	Y	116.2	Y	F	28.1	Left / Both	4AG	Y	25.7	N	GRIND
3	Fish	Y	F	Y	161.7	Y	M	38.7	Left / Both	4AG	Y	37.2	N	GRIND
4	Fish	Y	F	Y	121.6	Y	F	31.0	Left / Both	4AG	Y	29.9	N	GRIND
5	Fish	Y	F	Y	125.2	Y	F	33.3	Left / Both	4AB	Y	32.2	N	GRIND
6	Fish	Y	F	Y	145.6	Y	F	38.4	Left / Both	4AG	Y	37.1	N	GRIND
7	Fish	Y	F	Y	156.3	Y	F	39.9	Left / Both	4AG	Y	38.3	N	GRIND
8	Fish	Y	F	Y	163.3	Y	I	43.8	Left / Both	4AG	Y	42.1	N	GRIND
9	Fish	Y	F	Y	222.0	Y	F	55.3	Left / Both	4AG	Y	53.3	N	GRIND
10	Fish	Y	F	Y	168.1	Y	F	41.8	Left / Both	4AG	Y	40.7	N	GRIND
11	Fish	Y	F	Y	154.5	Y	F	39.2	Left / Both	4AG	Y	37.1	N	GRIND
12	Fish	Y	F	Y	217.3	Y	M	65.2	Left / Both	4AG	Y	63.6	N	GRIND
13	Fish	Y	F	Y	191.9	Y	M	54.6	Left / Both	4AG	Y	52.2	N	GRIND
14	Fish	Y	F	Y	175.2	Y	M	56.3	Left / Both	4AG	Y	54.9	N	GRIND
15	Fish	Y	F	Y	240.9	Y	M	67.9	Left / Both	4AG	Y	65.4	N	GRIND
16	Fish	Y	F	Y	169.0	Y	F	49.3	Left / Both	4AG	Y	47.5	N	GRIND
17	Fish	Y	F	Y	159.9	Y	F	41.9	Left / Both	4AG	Y	39.5	N	GRIND
18	Fish	Y	F	Y	192.0	Y	I	45.8	Left / Both	4AG	Y	44.2	N	GRIND
19	Fish	Y	F	Y	229.9	Y	F	69.8	Left / Both	4AG	Y	67.8	N	GRIND
20	Fish	Y	F	Y	194.4	Y	F	34.3	Left / Both	4AG	Y	31.5	N	GRIND
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					

cut 2/16/18

(1) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(2) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	G-7-243-020B
9AG	9 oz Amber Glass	
32AG	32 oz Amber Glass	

(3) M = Male, F = Female, I = Indeterminate

Reviewed By: [signature]
Date: 2/16/18

F-GB-O-153-REV.00 (08Feb2018)
Pace Analytical Services, LLC - Green Bay, WI