Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40150295

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

SDG Narrative . . . 43

Organic

GC-ECD PCBs

Surrogate Recovery Summary (Form 2) . . . 45

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 47

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) . . . 49

Duplicate Summary (Form 3) . . . 51

Method Blank Association Summary (Form 4) . . . 55

Analytical Results with Raw Data (Form 1) . . . 57

Initial Calibration Summary (Form 6) . . . 248

Raw Data for Initial Calibration Standards . . . 255

Continuing Calibration Summary (Form 7) . . . 395

Raw Data for Continuing Calibration Standards . . . 406

Raw Data QC . . . 463

Preparation Logs Raw Data . . . 520

Instrument Run Log . . . 524

Standards Traceability . . . 539

Certificate of Analysis . . . 607

InOrganic

Gravimetric

Analytical Results (Form 1-IN) . . . 636

Blanks (Form 3-IN) . . . 656

Duplicates (Form 6-IN) . . . 658

Preparation Logs Raw Data . . . 662

Biota Prep Logs

Biota Prep Log . . . 666

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 ACTON M
Pace Project No.: 40150295

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.

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

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

CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

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

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

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

SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150295001	**CS1-170518-01-STB-20**	Tissue	05/18/17 13:25	05/19/17 10:05
40150295002	**CS1-170518-01-STB-19**	Tissue	05/18/17 13:21	05/19/17 10:05
40150295003	**CS1-170518-01-STB-18**	Tissue	05/18/17 13:11	05/19/17 10:05
40150295004	**CS1-170518-01-STB-17**	Tissue	05/18/17 13:06	05/19/17 10:05
40150295005	**CS1-170518-01-STB-16**	Tissue	05/18/17 13:04	05/19/17 10:05
40150295006	**CS1-170518-01-STB-15**	Tissue	05/18/17 12:58	05/19/17 10:05
40150295007	**CS1-170518-01-STB-14**	Tissue	05/18/17 12:54	05/19/17 10:05
40150295008	**CS1-170518-01-STB-13**	Tissue	05/18/17 12:51	05/19/17 10:05
40150295009	**CS1-170518-01-STB-12**	Tissue	05/18/17 12:47	05/19/17 10:05
40150295010	**CS1-170518-01-STB-11**	Tissue	05/18/17 12:34	05/19/17 10:05
40150295011	**CS1-170518-01-STB-10**	Tissue	05/18/17 12:29	05/19/17 10:05
40150295012	**CS1-170518-01-STB-09**	Tissue	05/18/17 12:26	05/19/17 10:05
40150295013	**CS1-170518-01-STB-08**	Tissue	05/18/17 12:23	05/19/17 10:05
40150295014	**CS1-170518-01-STB-07**	Tissue	05/18/17 12:20	05/19/17 10:05
40150295015	**CS1-170518-01-STB-06**	Tissue	05/18/17 12:18	05/19/17 10:05
40150295016	**CS1-170518-01-STB-05**	Tissue	05/18/17 12:12	05/19/17 10:05
40150295017	**CS1-170518-01-STB-04**	Tissue	05/18/17 12:09	05/19/17 10:05
40150295018	**CS1-170518-01-STB-03**	Tissue	05/18/17 12:05	05/19/17 10:05
40150295019	**CS1-170518-01-STB-02**	Tissue	05/18/17 12:01	05/19/17 10:05
40150295020	**CS1-170518-01-STB-01**	Tissue	05/18/17 11:59	05/19/17 10:05

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

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

SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40150295001	CS1-170518-01-STB-20	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295002	CS1-170518-01-STB-19	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295003	CS1-170518-01-STB-18	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295004	CS1-170518-01-STB-17	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295005	CS1-170518-01-STB-16	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295006	CS1-170518-01-STB-15	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295007	CS1-170518-01-STB-14	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295008	CS1-170518-01-STB-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295009	CS1-170518-01-STB-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295010	CS1-170518-01-STB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295011	CS1-170518-01-STB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295012	CS1-170518-01-STB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295013	CS1-170518-01-STB-08	EPA 8082A Mod	BLM	10

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

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

SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295014	**CS1-170518-01-STB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295015	**CS1-170518-01-STB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295016	**CS1-170518-01-STB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295017	**CS1-170518-01-STB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295018	**CS1-170518-01-STB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295019	**CS1-170518-01-STB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150295020	**CS1-170518-01-STB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

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.

QC Batch: 282598

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- DUP (Lab ID: 1655665)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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

QC Batch: 282598

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40150295019

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1655663)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

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

Batch Comments:

The set was re-extracted due to extraction error.
- QC Batch: 283147

Analyte Comments:

QC Batch: 282341

1q: The duplicate acceptance criteria for sample results when at least one result is <5x the reporting limit is the difference between the results is <2x the reporting limit. The sample and duplicate precision do not exceed project criteria.
- CS1-170518-01-STB-12 (Lab ID: 40150295009)
  - PCB-1260 (Aroclor 1260)
- DUP (Lab ID: 1654793)
  - PCB-1260 (Aroclor 1260)

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

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:

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

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

PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

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.

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-20 **Lab ID: 40150295001** Collected: 05/18/17 13:25 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	03/05/18 07:12	03/07/18 15:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**69.7**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**81.7**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**146**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	11096-82-5	
PCB, Total	**297**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 15:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	03/05/18 07:12	03/07/18 15:51	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/05/18 07:12	03/07/18 15:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.2**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-19 **Lab ID: 40150295002** Collected: 05/18/17 13:21 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	03/05/18 07:12	03/07/18 16:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**19.4J**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.4J**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**67.5**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	11096-82-5	
PCB, Total	**109**	ug/kg	50.0	11.4	1	03/05/18 07:12	03/07/18 16:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/05/18 07:12	03/07/18 16:07	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/05/18 07:12	03/07/18 16:07	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-18 **Lab ID: 40150295003** Collected: 05/18/17 13:11 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	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**85.8**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**108**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**83.5**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	11096-82-5	
PCB, Total	**277**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 16:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	03/05/18 07:12	03/07/18 16:23	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	03/05/18 07:12	03/07/18 16:23	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.4**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-17 **Lab ID: 40150295004** Collected: 05/18/17 13:06 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	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**68.7**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**92.8**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**142**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	11096-82-5	
PCB, Total	**304**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 16:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		1	03/05/18 07:12	03/07/18 16:39	877-09-8	
Decachlorobiphenyl (S)	81	%	60-140		1	03/05/18 07:12	03/07/18 16:39	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.64**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-16 **Lab ID: 40150295005** Collected: 05/18/17 13:04 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	03/05/18 07:12	03/07/18 16:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**47.0J**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**57.0**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**65.0**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	11096-82-5	
PCB, Total	**169**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 16:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/05/18 07:12	03/07/18 16:55	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/05/18 07:12	03/07/18 16:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.53**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-15 **Lab ID: 40150295006** Collected: 05/18/17 12:58 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	03/05/18 07:12	03/07/18 17:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**238**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**196**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**220**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	11096-82-5	
PCB, Total	**654**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 17:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/05/18 07:12	03/07/18 17:44	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		1	03/05/18 07:12	03/07/18 17:44	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-14 **Lab ID: 40150295007** Collected: 05/18/17 12:54 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	03/05/18 07:12	03/07/18 18:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**103**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**135**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**214**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	11096-82-5	
PCB, Total	**452**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 18:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		1	03/05/18 07:12	03/07/18 18:00	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	03/05/18 07:12	03/07/18 18:00	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.47**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-13 **Lab ID: 40150295008** Collected: 05/18/17 12:51 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	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**127**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**131**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**195**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	11096-82-5	
PCB, Total	**453**	ug/kg	50.2	11.4	1	03/05/18 07:12	03/07/18 18:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/05/18 07:12	03/07/18 18:16	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/05/18 07:12	03/07/18 18:16	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-12 **Lab ID: 40150295009** Collected: 05/18/17 12:47 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	03/05/18 07:12	03/07/18 18:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**35.3J**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**45.2J**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**92.0**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	11096-82-5	1q
PCB, Total	**173**	ug/kg	49.8	11.4	1	03/05/18 07:12	03/07/18 18:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		1	03/05/18 07:12	03/07/18 18:32	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	03/05/18 07:12	03/07/18 18:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.6**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-11 **Lab ID: 40150295010** Collected: 05/18/17 12:34 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)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**210**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**330**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**202**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	11096-82-5	
PCB, Total	**741**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 19:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	60-140		2	03/05/18 07:12	03/07/18 19:04	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		2	03/05/18 07:12	03/07/18 19:04	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-10 **Lab ID: 40150295011** Collected: 05/18/17 12:29 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	03/05/18 07:12	03/07/18 19:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**97.9J**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**207**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**280**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	11096-82-5	
PCB, Total	**585**	ug/kg	100	22.8	2	03/05/18 07:12	03/07/18 19:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	60-140		2	03/05/18 07:12	03/07/18 19:20	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		2	03/05/18 07:12	03/07/18 19:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.38**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-09 **Lab ID: 40150295012** Collected: 05/18/17 12:26 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	03/05/18 07:12	03/07/18 19:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**61.6**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**81.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**105**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	11096-82-5	
PCB, Total	**248**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 19:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/05/18 07:12	03/07/18 19:37	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		1	03/05/18 07:12	03/07/18 19:37	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.6**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-08 **Lab ID: 40150295013** Collected: 05/18/17 12:23 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)	**<114**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**1870**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**1690**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**1030**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	11096-82-5	
PCB, Total	**4580**	ug/kg	501	114	10	03/05/18 07:12	03/07/18 19:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		10	03/05/18 07:12	03/07/18 19:53	877-09-8	
Decachlorobiphenyl (S)	127	%	60-140		10	03/05/18 07:12	03/07/18 19:53	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-07 **Lab ID: 40150295014** Collected: 05/18/17 12:20 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	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**37.4J**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**58.3**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**84.8**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	11096-82-5	
PCB, Total	**181**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 20:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	03/05/18 07:12	03/07/18 20:09	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/05/18 07:12	03/07/18 20:09	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-06 **Lab ID: 40150295015** Collected: 05/18/17 12:18 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)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	53469-21-9	
PCB-1248 (Aroclor 1248)	**255**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	12672-29-6	
PCB-1254 (Aroclor 1254)	**265**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	11097-69-1	
PCB-1260 (Aroclor 1260)	**296**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	11096-82-5	
PCB, Total	**815**	ug/kg	100	22.9	2	03/05/18 07:12	03/07/18 20:57	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		2	03/05/18 07:12	03/07/18 20:57	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		2	03/05/18 07:12	03/07/18 20:57	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-05 **Lab ID: 40150295016** Collected: 05/18/17 12:12 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	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**59.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**57.3**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**75.2**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	11096-82-5	
PCB, Total	**192**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	03/05/18 07:12	03/07/18 21:13	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/05/18 07:12	03/07/18 21:13	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.6**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-04 **Lab ID: 40150295017** Collected: 05/18/17 12:09 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)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**33.5J**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**57.0**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**159**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	11096-82-5	
PCB, Total	**249**	ug/kg	49.9	11.4	1	03/05/18 07:12	03/07/18 21:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		1	03/05/18 07:12	03/07/18 21:29	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	03/05/18 07:12	03/07/18 21:29	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.55**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-03 **Lab ID: 40150295018** Collected: 05/18/17 12:05 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	03/05/18 07:12	03/07/18 21:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**75.2**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**55.6**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**63.7**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	11096-82-5	
PCB, Total	**195**	ug/kg	50.1	11.4	1	03/05/18 07:12	03/07/18 21:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/05/18 07:12	03/07/18 21:46	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/05/18 07:12	03/07/18 21:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		03/07/18 07:13		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-02 **Lab ID: 40150295019** Collected: 05/18/17 12:01 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)	**<56.9**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	53469-21-9	M1
PCB-1248 (Aroclor 1248)	**1040**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**1000**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**510**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	11096-82-5	
PCB, Total	**2550**	ug/kg	250	56.9	5	03/12/18 07:42	03/13/18 15:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		5	03/12/18 07:42	03/13/18 15:37	877-09-8	
Decachlorobiphenyl (S)	115	%	60-140		5	03/12/18 07:42	03/13/18 15:37	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%	0.030	0.030	1		03/13/18 08:59		

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

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

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Sample: CS1-170518-01-STB-01 **Lab ID: 40150295020** Collected: 05/18/17 11:59 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	03/12/18 07:42	03/13/18 16:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**62.4**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**79.8**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**124**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	11096-82-5	
PCB, Total	**267**	ug/kg	50.2	11.4	1	03/12/18 07:42	03/13/18 16:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		1	03/12/18 07:42	03/13/18 16:09	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	03/12/18 07:42	03/13/18 16:09	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/27/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%	0.030	0.030	1		03/13/18 08:59		

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

QC Batch: 282341 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB

Associated Lab Samples: 40150295001, 40150295002, 40150295003, 40150295004, 40150295005, 40150295006, 40150295007, 40150295008, 40150295009, 40150295010, 40150295011, 40150295012, 40150295013, 40150295014, 40150295015, 40150295016, 40150295017, 40150295018

METHOD BLANK: 1654789 | Matrix: Tissue

Associated Lab Samples: 40150295001, 40150295002, 40150295003, 40150295004, 40150295005, 40150295006, 40150295007, 40150295008, 40150295009, 40150295010, 40150295011, 40150295012, 40150295013, 40150295014, 40150295015, 40150295016, 40150295017, 40150295018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
Decachlorobiphenyl (S)	%	84	60-140		03/07/18 14:30	
Tetrachloro-m-xylene (S)	%	73	60-140		03/07/18 14:30	

LABORATORY CONTROL SAMPLE: 1654790

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	226	90	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			87	60-140	
Tetrachloro-m-xylene (S)	%			78	60-140	

MATRIX SPIKE SAMPLE: 1654791

Parameter	Units	40148722009 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	235	94	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	49.6J		182			
PCB-1254 (Aroclor 1254)	ug/kg	71.2		79.3			
PCB-1260 (Aroclor 1260)	ug/kg	137		107			
Decachlorobiphenyl (S)	%				91	60-140	
Tetrachloro-m-xylene (S)	%				85	60-140	

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

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

SAMPLE DUPLICATE: 1654792

Parameter	Units	40148722009 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	49.6J	37.8J		40	
PCB-1254 (Aroclor 1254)	ug/kg	71.2	53.1	29	40	
PCB-1260 (Aroclor 1260)	ug/kg	137	106	26	40	
Decachlorobiphenyl (S)	%	110	86	24		
Tetrachloro-m-xylene (S)	%	103	78	28		

SAMPLE DUPLICATE: 1654793

Parameter	Units	40150295009 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	35.3J	23.9J		40	
PCB-1254 (Aroclor 1254)	ug/kg	45.2J	29.0J		40	
PCB-1260 (Aroclor 1260)	ug/kg	92.0	57.0	47	40	1q
Decachlorobiphenyl (S)	%	100	92	8		
Tetrachloro-m-xylene (S)	%	97	90	7		

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.

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

QC Batch: 282598 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40150295019, 40150295020

METHOD BLANK: 1655661 | Matrix: Tissue
Associated Lab Samples: 40150295019, 40150295020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/13/18 14:50	
Decachlorobiphenyl (S)	%	83	60-140		03/13/18 14:50	
Tetrachloro-m-xylene (S)	%	73	60-140		03/13/18 14:50	

LABORATORY CONTROL SAMPLE: 1655662

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	212	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)	%			82	60-140	
Tetrachloro-m-xylene (S)	%			69	60-140	

MATRIX SPIKE SAMPLE: 1655663

Parameter	Units	40150295019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.9		<56.9			
PCB-1221 (Aroclor 1221)	ug/kg	<56.9		<56.9			
PCB-1232 (Aroclor 1232)	ug/kg	<56.9		<56.9			
PCB-1242 (Aroclor 1242)	ug/kg	<56.9	250	519	208	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	1040		1220			
PCB-1254 (Aroclor 1254)	ug/kg	1000		1060			
PCB-1260 (Aroclor 1260)	ug/kg	510		517			
Decachlorobiphenyl (S)	%				103	60-140	
Tetrachloro-m-xylene (S)	%				80	60-140	

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

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

SAMPLE DUPLICATE: 1655664

Parameter	Units	40150295019 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.9	<56.9		40	
PCB-1221 (Aroclor 1221)	ug/kg	<56.9	<56.9		40	
PCB-1232 (Aroclor 1232)	ug/kg	<56.9	<56.9		40	
PCB-1242 (Aroclor 1242)	ug/kg	<56.9	<56.9		40	
PCB-1248 (Aroclor 1248)	ug/kg	1040	786	28	40	
PCB-1254 (Aroclor 1254)	ug/kg	1000	746	29	40	
PCB-1260 (Aroclor 1260)	ug/kg	510	375	31	40	
Decachlorobiphenyl (S)	%	115	100	14		
Tetrachloro-m-xylene (S)	%	91	83	9		

SAMPLE DUPLICATE: 1655665

Parameter	Units	40151804007 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<170	<171		40	
PCB-1221 (Aroclor 1221)	ug/kg	<170	<171		40	
PCB-1232 (Aroclor 1232)	ug/kg	<170	<171		40	
PCB-1242 (Aroclor 1242)	ug/kg	<170	<171		40	
PCB-1248 (Aroclor 1248)	ug/kg	2530	2760	9	40	
PCB-1254 (Aroclor 1254)	ug/kg	2420	2660	9	40	
PCB-1260 (Aroclor 1260)	ug/kg	693J	792		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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.

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

QC Batch: 282377 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40150295001, 40150295002, 40150295003, 40150295004, 40150295005, 40150295006, 40150295007, 40150295008, 40150295009, 40150295010, 40150295011, 40150295012, 40150295013, 40150295014, 40150295015, 40150295016, 40150295017, 40150295018

METHOD BLANK: 1654892 Matrix: Tissue
Associated Lab Samples: 40150295001, 40150295002, 40150295003, 40150295004, 40150295005, 40150295006, 40150295007, 40150295008, 40150295009, 40150295010, 40150295011, 40150295012, 40150295013, 40150295014, 40150295015, 40150295016, 40150295017, 40150295018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/07/18 07:13	

MATRIX SPIKE SAMPLE: 1682435

Parameter	Units	40148722009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	3.4		2.7			

SAMPLE DUPLICATE: 1654895

Parameter	Units	40148722009 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	3.4	2.5	29	40	

SAMPLE DUPLICATE: 1654896

Parameter	Units	40150295009 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.6	1.7	39	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.

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

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

QC Batch: 282623 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40150295019, 40150295020

METHOD BLANK: 1655713 | Matrix: Tissue
Associated Lab Samples: 40150295019, 40150295020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/13/18 08:59	

MATRIX SPIKE SAMPLE: 1682460

Parameter	Units	40150295019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	3.0		3.0			

SAMPLE DUPLICATE: 1655716

Parameter	Units	40150295019 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	3.0	2.1	36	40	

SAMPLE DUPLICATE: 1655717

Parameter	Units	40151804007 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.39	0.41	3	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.

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

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

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: 283147

[1] The set was re-extracted due to extraction error.

ANALYTE QUALIFIERS

1q The duplicate acceptance criteria for sample results when at least one result is <5x the reporting limit is the difference between the results is <2x the reporting limit. The sample and duplicate precision do not exceed project criteria.

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

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

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150295001	**CS1-170518-01-STB-20**	EPA 3541	282341	EPA 8082A Mod	282653
40150295002	**CS1-170518-01-STB-19**	EPA 3541	282341	EPA 8082A Mod	282653
40150295003	**CS1-170518-01-STB-18**	EPA 3541	282341	EPA 8082A Mod	282653
40150295004	**CS1-170518-01-STB-17**	EPA 3541	282341	EPA 8082A Mod	282653
40150295005	**CS1-170518-01-STB-16**	EPA 3541	282341	EPA 8082A Mod	282653
40150295006	**CS1-170518-01-STB-15**	EPA 3541	282341	EPA 8082A Mod	282653
40150295007	**CS1-170518-01-STB-14**	EPA 3541	282341	EPA 8082A Mod	282653
40150295008	**CS1-170518-01-STB-13**	EPA 3541	282341	EPA 8082A Mod	282653
40150295009	**CS1-170518-01-STB-12**	EPA 3541	282341	EPA 8082A Mod	282653
40150295010	**CS1-170518-01-STB-11**	EPA 3541	282341	EPA 8082A Mod	282653
40150295011	**CS1-170518-01-STB-10**	EPA 3541	282341	EPA 8082A Mod	282653
40150295012	**CS1-170518-01-STB-09**	EPA 3541	282341	EPA 8082A Mod	282653
40150295013	**CS1-170518-01-STB-08**	EPA 3541	282341	EPA 8082A Mod	282653
40150295014	**CS1-170518-01-STB-07**	EPA 3541	282341	EPA 8082A Mod	282653
40150295015	**CS1-170518-01-STB-06**	EPA 3541	282341	EPA 8082A Mod	282653
40150295016	**CS1-170518-01-STB-05**	EPA 3541	282341	EPA 8082A Mod	282653
40150295017	**CS1-170518-01-STB-04**	EPA 3541	282341	EPA 8082A Mod	282653
40150295018	**CS1-170518-01-STB-03**	EPA 3541	282341	EPA 8082A Mod	282653
40150295019	**CS1-170518-01-STB-02**	EPA 3541	282598	EPA 8082A Mod	283147
40150295020	**CS1-170518-01-STB-01**	EPA 3541	282598	EPA 8082A Mod	283147
40150295001	**CS1-170518-01-STB-20**	Pace Gender Typing	281975		
40150295002	**CS1-170518-01-STB-19**	Pace Gender Typing	281975		
40150295003	**CS1-170518-01-STB-18**	Pace Gender Typing	281975		
40150295004	**CS1-170518-01-STB-17**	Pace Gender Typing	281975		
40150295005	**CS1-170518-01-STB-16**	Pace Gender Typing	281975		
40150295006	**CS1-170518-01-STB-15**	Pace Gender Typing	281975		
40150295007	**CS1-170518-01-STB-14**	Pace Gender Typing	281975		
40150295008	**CS1-170518-01-STB-13**	Pace Gender Typing	281975		
40150295009	**CS1-170518-01-STB-12**	Pace Gender Typing	281975		
40150295010	**CS1-170518-01-STB-11**	Pace Gender Typing	281975		
40150295011	**CS1-170518-01-STB-10**	Pace Gender Typing	281975		
40150295012	**CS1-170518-01-STB-09**	Pace Gender Typing	281975		
40150295013	**CS1-170518-01-STB-08**	Pace Gender Typing	281975		
40150295014	**CS1-170518-01-STB-07**	Pace Gender Typing	281975		
40150295015	**CS1-170518-01-STB-06**	Pace Gender Typing	281975		
40150295016	**CS1-170518-01-STB-05**	Pace Gender Typing	281975		
40150295017	**CS1-170518-01-STB-04**	Pace Gender Typing	281975		
40150295018	**CS1-170518-01-STB-03**	Pace Gender Typing	281975		
40150295019	**CS1-170518-01-STB-02**	Pace Gender Typing	281975		
40150295020	**CS1-170518-01-STB-01**	Pace Gender Typing	281975		
40150295001	**CS1-170518-01-STB-20**	Pace Lipid	282377		
40150295002	**CS1-170518-01-STB-19**	Pace Lipid	282377		
40150295003	**CS1-170518-01-STB-18**	Pace Lipid	282377		
40150295004	**CS1-170518-01-STB-17**	Pace Lipid	282377		
40150295005	**CS1-170518-01-STB-16**	Pace Lipid	282377		
40150295006	**CS1-170518-01-STB-15**	Pace Lipid	282377		
40150295007	**CS1-170518-01-STB-14**	Pace Lipid	282377		

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTON M
Pace Project No.: 40150295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150295008	**CS1-170518-01-STB-13**	Pace Lipid	282377		
40150295009	**CS1-170518-01-STB-12**	Pace Lipid	282377		
40150295010	**CS1-170518-01-STB-11**	Pace Lipid	282377		
40150295011	**CS1-170518-01-STB-10**	Pace Lipid	282377		
40150295012	**CS1-170518-01-STB-09**	Pace Lipid	282377		
40150295013	**CS1-170518-01-STB-08**	Pace Lipid	282377		
40150295014	**CS1-170518-01-STB-07**	Pace Lipid	282377		
40150295015	**CS1-170518-01-STB-06**	Pace Lipid	282377		
40150295016	**CS1-170518-01-STB-05**	Pace Lipid	282377		
40150295017	**CS1-170518-01-STB-04**	Pace Lipid	282377		
40150295018	**CS1-170518-01-STB-03**	Pace Lipid	282377		
40150295019	**CS1-170518-01-STB-02**	Pace Lipid	282623		
40150295020	**CS1-170518-01-STB-01**	Pace Lipid	282623		

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

SSM

40150295

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170518-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	001	CS1-170518-01	CS1-170518-01-STB-20	5/18/2017	13:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
002	002	CS1-170518-01	CS1-170518-01-STB-19	5/18/2017	13:21	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	003	CS1-170518-01	CS1-170518-01-STB-18	5/18/2017	13:11	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	004	CS1-170518-01	CS1-170518-01-STB-17	5/18/2017	13:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	005	CS1-170518-01	CS1-170518-01-STB-16	5/18/2017	13:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	006	CS1-170518-01	CS1-170518-01-STB-15	5/18/2017	12:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	007	CS1-170518-01	CS1-170518-01-STB-14	5/18/2017	12:54	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	008	CS1-170518-01	CS1-170518-01-STB-13	5/18/2017	12:51	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	009	CS1-170518-01	CS1-170518-01-STB-12	5/18/2017	12:47	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	010	CS1-170518-01	CS1-170518-01-STB-11	5/18/2017	12:34	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name	Print Name Susan Wylie	Print Name	Print Name
Company Anchor QEA	Company	Company FedEx	Company Pace	Company	Company
Date/Time 5/18/17 16:00	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-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	011	CS1-170518-01	CS1-170518-01-STB-10	5/18/2017	12:29	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-Ziploc A
012	012	CS1-170518-01	CS1-170518-01-STB-09	5/18/2017	12:26	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	013	CS1-170518-01	CS1-170518-01-STB-08	5/18/2017	12:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	014	CS1-170518-01	CS1-170518-01-STB-07	5/18/2017	12:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	015	CS1-170518-01	CS1-170518-01-STB-06	5/18/2017	12:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	016	CS1-170518-01	CS1-170518-01-STB-05	5/18/2017	12:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	017	CS1-170518-01	CS1-170518-01-STB-04	5/18/2017	12:09	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	018	CS1-170518-01	CS1-170518-01-STB-03	5/18/2017	12:05	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	019	CS1-170518-01	CS1-170518-01-STB-02	5/18/2017	12:01	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	020	CS1-170518-01	CS1-170518-01-STB-01	5/18/2017	11:59	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company	Company Fed Ex	Company Pace	Company	Company
Date/Time 5/18/17 16:00	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

40150295

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 # _____ SW

Additional Comments/Resolution: _____ 5/19/17 ~~uncorrected~~

Tracking #	temp	
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 SW

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# : 40150295**

40150295

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
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct SW
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 List 5-19-17 SW

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

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40150295
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** A batch MS was analyzed with extraction batch 282341 in order to cover the QAPP QC requirement. The QAPP specified accuracy criteria were met.
3. **Matrix Spike (MS):** Sample CS1-170518-01-STB-02 was designated as the parent sample for the MS for extraction batch 282598 and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:5 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to the parent result on the final report.

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

F. Sample Duplicate: Samples CS1-170518-01-STB-12 and CS1-170518-01-STB-02 were designated as the duplicates for this SDG. The QAPP specified precision criteria were met with the following exception. Sample CS1-170518-01-STB-12 and its duplicate exceeded 40% RPD but met QAPP criteria; the sample was reported with the “1q” data qualifier on the final report. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
CS1-170518-01-STB-11	To bring Aroclors within instrument calibration range
CS1-170518-01-STB-10	To bring Aroclors within instrument calibration range
CS1-170518-01-STB-08	To bring Aroclors within instrument calibration range
CS1-170518-01-STB-06	To bring Aroclors within instrument calibration range
CS1-170518-01-STB-02	To bring Aroclors within instrument calibration range

H. Reanalysis: None required for this SDG.

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

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

Signed: Leigh A Begalske Date: 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.: 40150295 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1654789	1654789BLANK	84	73
1654790	1654790LCS	87	78
1654793	1654793DUP	92	90
40150295001	CS1-170518-01-STB-20	96	88
40150295002	CS1-170518-01-STB-19	95	89
40150295003	CS1-170518-01-STB-18	97	96
40150295004	CS1-170518-01-STB-17	81	77
40150295005	CS1-170518-01-STB-16	90	85
40150295006	CS1-170518-01-STB-15	101	93
40150295007	CS1-170518-01-STB-14	89	73
40150295008	CS1-170518-01-STB-13	95	87
40150295009	CS1-170518-01-STB-12	100	97
40150295010	CS1-170518-01-STB-11	86	75
40150295011	CS1-170518-01-STB-10	92	79
40150295012	CS1-170518-01-STB-09	101	95
40150295013	CS1-170518-01-STB-08	127	96
40150295014	CS1-170518-01-STB-07	94	90
40150295015	CS1-170518-01-STB-06	97	86
40150295016	CS1-170518-01-STB-05	91	90
40150295017	CS1-170518-01-STB-04	90	77
40150295018	CS1-170518-01-STB-03	88	85

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40150295 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1655661	1655661BLANK	83	73
1655662	1655662LCS	82	69
1655663	1655663MS	103	80
1655664	1655664DUP	100	83
40150295019	CS1-170518-01-STB-02	115	91
40150295020	CS1-170518-01-STB-01	85	73

	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: 03/05/2018

Instrument: 40GCSJ

Lab File ID: 030718.B\030718014.D

Lab Sample ID: 1654790LCS

Date Analyzed (1): 03/07/2018

LCS Lot No: 182336

SDG No.: 40150295

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	226	90	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/12/2018

Instrument: 40GCSJ

Lab File ID: 031318.B\031318007.D

Lab Sample ID: 1655662LCS

Date Analyzed (1): 03/13/2018

LCS Lot No: 182336

SDG No.: 40150295

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	212	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: 03/05/2018

Instrument: 40GCSJ

Parent Sample ID: 40148722009

Matrix Spike - Sample No: 1654791MS

Date Analyzed (1): 03/07/2018

Lab File ID: 030718.B\030718016.D

SDG No.: 40150295

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	235	94	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: 03/12/2018

Instrument: 40GCSJ

Parent Sample ID: CS1-170518-01-STB-02

Matrix Spike - Sample No: 1655663MS

Date Analyzed (1): 03/13/2018

Lab File ID: 031318.B\031318008.D

SDG No.: 40150295

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<56.9	519	208	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/05/2018

Instrument 40GCSJ

Lab Sample ID: 40148722009

Duplicate Sample No: 40148722009DUP

Date Analyzed: 03/07/2018

Lab File ID: 030718.B\030718020.D

SDG No.: 40150295

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)	49.6J	37.8J		0-40
PCB-1254 (Aroclor 1254)	71.2	53.1	29	0-40
PCB-1260 (Aroclor 1260)	137	106	26	0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/05/2018

Instrument 40GCSJ

Lab Sample ID: CS1-170518-01-STB-12

Duplicate Sample No: 40150295009DUP

Date Analyzed: 03/07/2018

Lab File ID: 030718.B\030718044.D

SDG No.: 40150295

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)	35.3J	23.9J		0-40
PCB-1254 (Aroclor 1254)	45.2J	29.0J		0-40
PCB-1260 (Aroclor 1260)	92.0	57.0	47	0-40

RPD: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/12/2018

Instrument 40GCSJ

Lab Sample ID: 40151804007

Duplicate Sample No: 40151804007DUP

Date Analyzed: 03/13/2018

Lab File ID: 031318.B\031318031.D

SDG No.: 40150295

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<170	<171		0-40
PCB-1221 (Aroclor 1221)	<170	<171		0-40
PCB-1232 (Aroclor 1232)	<170	<171		0-40
PCB-1242 (Aroclor 1242)	<170	<171		0-40
PCB-1248 (Aroclor 1248)	2530	2760	9	0-40
PCB-1254 (Aroclor 1254)	2420	2660	9	0-40
PCB-1260 (Aroclor 1260)	693J	792		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/12/2018

Instrument 40GCSJ

Lab Sample ID: CS1-170518-01-STB-02

Duplicate Sample No: 40150295019DUP

Date Analyzed: 03/13/2018

Lab File ID: 031318.B\031318010.D

SDG No.: 40150295

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<56.9	<56.9		0-40
PCB-1221 (Aroclor 1221)	<56.9	<56.9		0-40
PCB-1232 (Aroclor 1232)	<56.9	<56.9		0-40
PCB-1242 (Aroclor 1242)	<56.9	<56.9		0-40
PCB-1248 (Aroclor 1248)	1040	786	28	0-40
PCB-1254 (Aroclor 1254)	1000	746	29	0-40
PCB-1260 (Aroclor 1260)	510	375	31	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1654789BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40150295 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1654789

Lab File ID: 030718.B\030718012.D Date Analyzed: 03/07/2018 Time:14:30

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1654790LCS	1654790	030718.B\030718014.D	03/07/2018 14:46
1654792DUP	1654792	030718.B\030718020.D	03/07/2018 15:35
CS1-170518-01-STB-20	40150295001	030718.B\030718022.D	03/07/2018 15:51
CS1-170518-01-STB-19	40150295002	030718.B\030718024.D	03/07/2018 16:07
CS1-170518-01-STB-18	40150295003	030718.B\030718026.D	03/07/2018 16:23
CS1-170518-01-STB-17	40150295004	030718.B\030718028.D	03/07/2018 16:39
CS1-170518-01-STB-16	40150295005	030718.B\030718030.D	03/07/2018 16:55
CS1-170518-01-STB-15	40150295006	030718.B\030718036.D	03/07/2018 17:44
CS1-170518-01-STB-14	40150295007	030718.B\030718038.D	03/07/2018 18:00
CS1-170518-01-STB-13	40150295008	030718.B\030718040.D	03/07/2018 18:16
CS1-170518-01-STB-12	40150295009	030718.B\030718042.D	03/07/2018 18:32
1654793DUP	1654793	030718.B\030718044.D	03/07/2018 18:48
CS1-170518-01-STB-11	40150295010	030718.B\030718046.D	03/07/2018 19:04
CS1-170518-01-STB-10	40150295011	030718.B\030718048.D	03/07/2018 19:20
CS1-170518-01-STB-09	40150295012	030718.B\030718050.D	03/07/2018 19:37
CS1-170518-01-STB-08	40150295013	030718.B\030718052.D	03/07/2018 19:53
CS1-170518-01-STB-07	40150295014	030718.B\030718054.D	03/07/2018 20:09
CS1-170518-01-STB-06	40150295015	030718.B\030718060.D	03/07/2018 20:57
CS1-170518-01-STB-05	40150295016	030718.B\030718062.D	03/07/2018 21:13
CS1-170518-01-STB-04	40150295017	030718.B\030718064.D	03/07/2018 21:29
CS1-170518-01-STB-03	40150295018	030718.B\030718066.D	03/07/2018 21:46

SAMPLE NO.

1655661BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40150295 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1655661

Lab File ID: 031318.B\031318006.D Date Analyzed: 03/13/2018 Time:14:50

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1655662LCS	1655662	031318.B\031318007.D	03/13/2018 15:05
1655663MS	1655663	031318.B\031318008.D	03/13/2018 15:21
CS1-170518-01-STB-02	40150295019	031318.B\031318009.D	03/13/2018 15:37
1655664DUP	1655664	031318.B\031318010.D	03/13/2018 15:53
CS1-170518-01-STB-01	40150295020	031318.B\031318011.D	03/13/2018 16:09
1655665DUP	1655665	031318.B\031318031.D	03/13/2018 21:25

SAMPLE NO.

CS1-170518-01-STB-20

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received: 05/19/2017 10:05

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/05/2018 07:12

Lab Sample ID: 40150295001

Date Analyzed: 03/07/2018 15:51

Lab File ID: 030718.B\030718022.D

Initial wt/vol: 10.001 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)	69.7	
11097-69-1	PCB-1254 (Aroclor 1254)	81.7	
11096-82-5	PCB-1260 (Aroclor 1260)	146	
1336-36-3	PCB, Total	297	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718022.D
Lab Smp Id: 40150295001 Client Smp ID: CS1-170518-01-STB-2
Inj Date : 07-MAR-2018 15:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295001,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	9656	10985	1.138	0.01		
1.098	10855	7048	0.649	0.01		
1.161	63361	42455	0.670	0.08		
1.207	20657	16877	0.817	0.02		
1.318	13865	8786	0.634	0.01		
1.425	27608	20707	0.750	0.03		
1.498	37471	35111	0.937	0.04		
1.552	9958	12621	1.267	0.01		
1.687	21527	16727	0.777	0.02		
1.770	32283	29743	0.921	0.04		
1.801	21463	21982	1.024	0.02		
1.831	12974	14688	1.132	0.01		
1.919	12657	14080	1.112	0.01		
1.953	30281	26541	0.876	0.03		
2.063	32432	29148	0.899	0.04		
2.132	50966	31661	0.621	0.06		
2.170	33801	35558	1.052	0.04		
2.207	17511	14832	0.847	0.02		
2.257	12274	14033	1.143	0.01		
2.293	41461	43046	1.038	0.05		
2.316	59072	60179	1.019	0.07		
2.359	14909	16334	1.096	0.01		
2.410	269771	251550	0.932	0.34		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.485	10873241	10616809	0.976	14.87	$ 2 Tetrachloro-m-xyle
2.548	24984	18570	0.743	0.03	
2.605	14904	11701	0.785	0.01	
2.644	28984	25395	0.876	0.03	
2.724	21478	14240	0.663	0.02	
2.786	32932	28786	0.874	0.04	
2.850	83626	43917	0.525	0.10	
2.920	17103	11816	0.691	0.02	
2.975	384190	255411	0.665	0.49	
3.020	86493	84607	0.978	0.11	
3.055	110472	86347	0.782	0.14	
3.166	30245	21168	0.700	0.03	
3.248	34383	23490	0.683	0.04	
3.318	118064	112200	0.950	0.15	
3.345	118073	103334	0.875	0.15	
3.404	16893	12810	0.758	0.02	
3.434	117691	96454	0.820	0.15	
3.519	159066	136049	0.855	0.20	
3.733	81071	81266	1.002	0.10	
3.757	43980	41936	0.954	0.05	
3.782	12128	15853	1.307	0.01	
3.826	514465	276624	0.538	0.66	
3.939	139872	104563	0.748	0.18	
3.993	104327	89445	0.857	0.13	
4.058	94830	53098	0.560	0.12	
4.136	29056	23804	0.819	0.03	
4.215	521423	483853	0.928	0.67	
4.262	500023	491371	0.983	0.64	6 Aroclor 1248
4.293	388038	296704	0.765	0.50	
4.350	60099	45137	0.751	0.07	
4.418	309656	275377	0.889	0.39	
4.453	170391	158176	0.928	0.21	
4.502	36055	24308	0.674	0.04	
4.545	387251	357022	0.922	0.49	6 Aroclor 1248
4.588	26645	25026	0.939	0.03	
4.618	77352	65976	0.853	0.09	
4.654	26148	26118	0.999	0.03	
4.684	44689	38269	0.856	0.05	
4.738	119115	97264	0.817	0.15	
4.767	62504	61799	0.989	0.08	
4.813	246130	222087	0.902	0.31	6 Aroclor 1248
4.848	406271	384406	0.946	0.52	
4.895	980494	579732	0.591	1.26	6 Aroclor 1248
4.939	34282	47190	1.377	0.04	
4.957	281358	250269	0.890	0.36	
5.005	65610	63929	0.974	0.08	
5.037	268500	271309	1.010	0.34	6 Aroclor 1248
5.059	162539	146350	0.900	0.20	
5.099	845725	607253	0.718	1.09	
5.162	1248403	1111581	0.890	1.60	7 Aroclor 1254
5.214	1486112	1282292	0.863	1.91	
5.254	272239	273115	1.003	0.35	
5.283	190120	163956	0.862	0.24	
5.314	830402	809960	0.975	1.07	
5.363	376716	339396	0.901	0.48	
5.407	431720	389094	0.901	0.55	7 Aroclor 1254
5.453	3914419	3838757	0.981	5.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.479	78498	148288	1.889	0.10	
5.510	1257787	956532	0.760	1.62	7 Aroclor 1254
5.577	222618	197078	0.885	0.28	
5.603	224742	156755	0.697	0.28	
5.675	551778	503629	0.913	0.71	
5.709	405366	299421	0.739	0.52	
5.743	458982	329134	0.717	0.59	
5.789	2401667	1926572	0.802	3.09	
5.823	871291	817341	0.938	1.12	
5.902	504129	354255	0.703	0.64	
5.931	174419	150693	0.864	0.22	
5.965	70439	72214	1.025	0.09	
5.994	1046086	1003565	0.959	1.34	
6.027	744242	646239	0.868	0.95	7 Aroclor 1254
6.056	3874795	3361872	0.868	4.99	
6.171	345034	280129	0.812	0.44	
6.186	343223	325056	0.947	0.44	
6.245	561464	334958	0.597	0.72	
6.300	3298251	2790081	0.846	4.25	8 Aroclor 1260
6.333	254152	238801	0.940	0.32	
6.375	85921	69688	0.811	0.11	
6.406	28792	33995	1.181	0.03	
6.433	567287	427846	0.754	0.73	
6.511	2277206	1903097	0.836	2.93	
6.536	514410	536470	1.043	0.66	
6.561	787875	689554	0.875	1.01	
6.605	270154	164052	0.607	0.34	
6.640	21854	25379	1.161	0.02	
6.661	79318	66405	0.837	0.10	
6.699	42409	46096	1.087	0.05	
6.718	396377	360309	0.909	0.51	
6.759	726988	604827	0.832	0.93	
6.802	492841	468479	0.951	0.63	
6.840	582150	520939	0.895	0.75	
6.888	40340	40583	1.006	0.05	
6.914	257430	245603	0.954	0.33	
6.943	787660	754586	0.958	1.01	
7.005	2042190	1802564	0.883	2.63	8 Aroclor 1260
7.037	237866	170615	0.717	0.30	
7.076	47457	43614	0.919	0.06	
7.120	53607	47642	0.889	0.06	
7.165	27079	10395	0.384	0.03	
7.253	775320	673654	0.869	0.99	8 Aroclor 1260
7.281	226590	180055	0.795	0.29	
7.343	32728	26431	0.808	0.04	
7.366	36250	44891	1.238	0.04	
7.391	1044477	946586	0.906	1.34	
7.420	94568	116383	1.231	0.12	
7.443	1095731	971740	0.887	1.41	8 Aroclor 1260
7.494	212424	163131	0.768	0.27	
7.529	96542	82952	0.859	0.12	
7.562	212875	147409	0.692	0.27	
7.626	92694	49616	0.535	0.11	
7.667	6518	10741	1.648	0.00	
7.691	189188	183495	0.970	0.24	
7.727	935615	834111	0.892	1.20	
7.764	76262	67950	0.891	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.804	547862	317919	0.580	0.70	
7.863	84166	65289	0.776	0.10	
7.901	913210	744313	0.815	1.17	8 Aroclor 1260
7.959	164217	83649	0.509	0.21	
8.048	47307	35226	0.745	0.06	
8.102	27735	23642	0.852	0.03	
8.151	22471	14951	0.665	0.02	
8.194	66764	43262	0.648	0.08	
8.247	22364	19553	0.874	0.02	
8.275	1923375	1747370	0.908	2.47	
8.347	16697	17999	1.078	0.02	
8.379	98403	76200	0.774	0.12	
8.448	42172	28624	0.679	0.05	
8.571	10493388	9114687	0.869	13.52	$ 12 Decachlorobiphenyl
8.703	80659	85396	1.059	0.10	
8.726	208123	194989	0.937	0.26	
8.837	27814	26328	0.947	0.03	
8.992	47824	37776	0.790	0.06	
9.028	17403	16228	0.932	0.02	
9.055	56833	39614	0.697	0.07	
9.094	17576	18471	1.051	0.02	
9.120	9474	11547	1.219	0.01	
9.170	121050	114114	0.943	0.15	
9.284	22394	19746	0.882	0.02	
9.328	26816	24362	0.908	0.03	
9.404	19596	19478	0.994	0.02	
9.467	43475	28433	0.654	0.05	
9.547	63320	36406	0.575	0.08	
9.598	10727	10902	1.016	0.01	
9.675	14186	15690	1.106	0.01	
9.699	51545	48331	0.938	0.06	
9.735	108134	88080	0.815	0.13	
9.778	10524	10255	0.974	0.01	
9.858	10479	10318	0.985	0.01	
9.962	29634	15521	0.524	0.03	
	77571461	68020626		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718022.D
Lab Smp Id: 40150295001 Client Smp ID: CS1-170518-01-STB-2
Inj Date : 07-MAR-2018 15:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295001,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10873240	0.08819	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			
4.262	4.261	0.001	500023	0.21341	110	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	387250	0.09331	47	0.00- 20.00	77.45	BA
4.812	4.812	0.000	246129	0.12124	61	0.00- 20.00	49.22	BA
4.894	4.879	0.015	980493	0.19464	97	0.00- 20.00	196.09	BA
5.036	5.038	-0.002	268500	0.07482	37	0.00- 20.00	53.70	BA
Average of Peak Concentrations =					70			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1248402	0.23846	120	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	431720	0.10038	50	0.00- 20.00	34.58	BA
5.510	5.510	0.000	1257787	0.16196	81	0.00- 20.00	100.75	BA
6.026	6.027	-0.001	744242	0.15283	76	0.00- 20.00	59.62	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					82			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3298250	0.37216	190	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2042189	0.20393	100	0.00- 20.00	61.92	BA
7.252	7.251	0.001	775320	0.16221	81	0.00- 20.00	23.51	BA
7.442	7.443	-0.001	1095730	0.37588	190	0.00- 20.00	33.22	BA
7.900	7.901	-0.001	913209	0.34608	170	0.00- 20.00	27.69	BA
Average of Peak Concentrations =					150			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10493387	0.09578	48			

QC Flag Legend

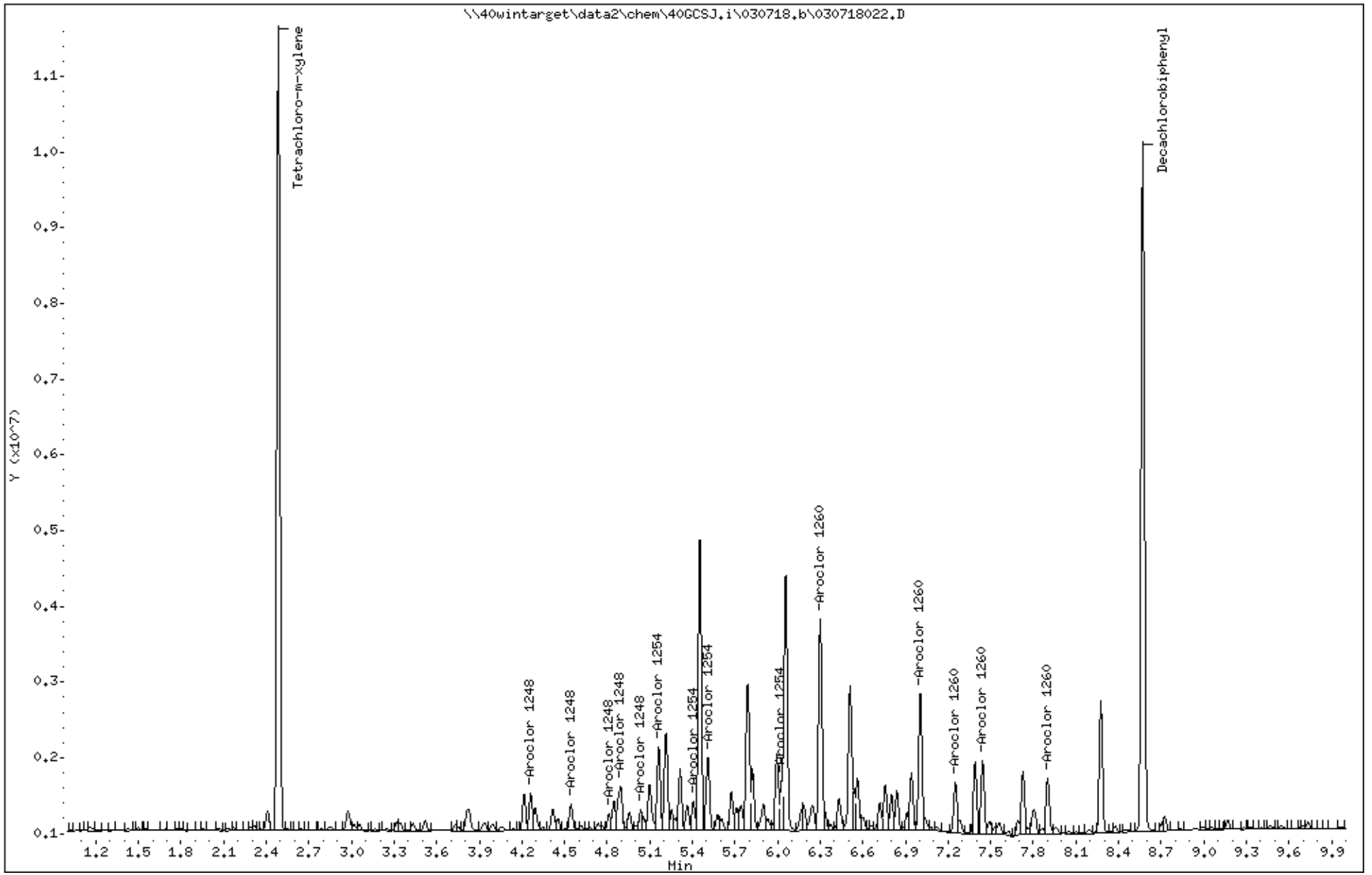
M - Compound response manually integrated.

Review Codes Legend

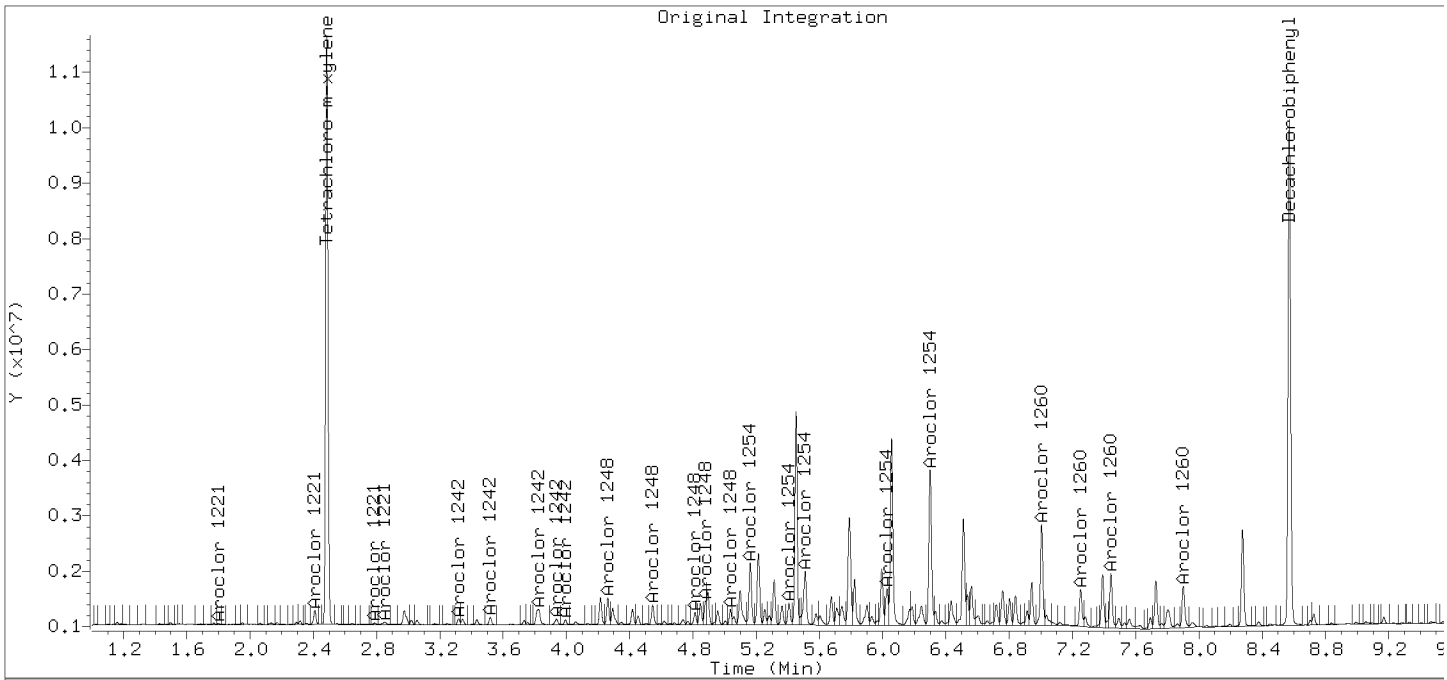
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

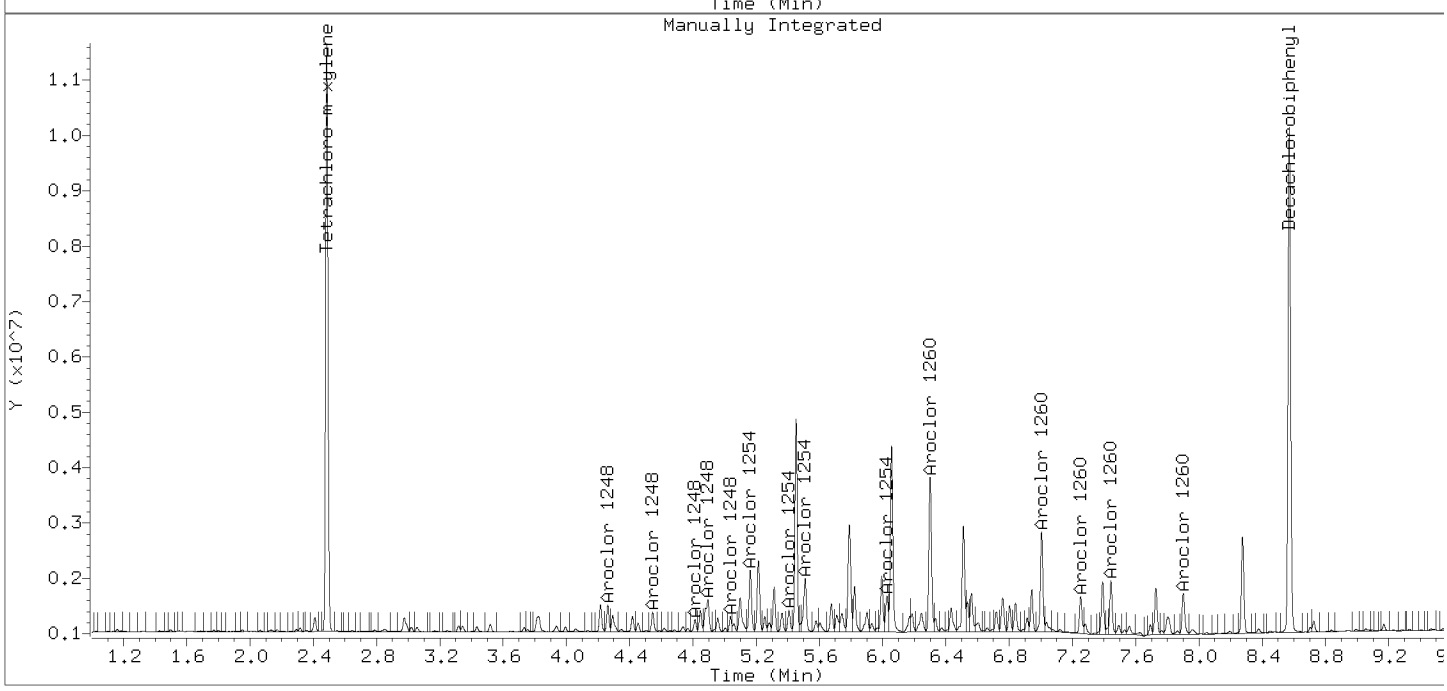
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718022.D
Date : 07-MAR-2018 15:51
Client ID: CS1-170518-01-STB-2
Sample Info: 40150295001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 15:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	118063	0	
Aroclor 1016	118063	0	
Aroclor 1016	118063	0	
Aroclor 1016	118063	0	
Aroclor 1016	118063	0	
Aroclor 1221	21463	0	
Aroclor 1221	21463	0	
Aroclor 1221	21463	0	
Aroclor 1221	21463	0	
Aroclor 1221	21463	0	
Aroclor 1232	83626	0	
Aroclor 1232	83626	0	
Aroclor 1232	83626	0	
Aroclor 1232	83626	0	

Aroclor 1232	83626	0	
Aroclor 1242	118063	0	
Aroclor 1242	118063	0	
Aroclor 1242	118063	0	
Aroclor 1242	118063	0	
Aroclor 1242	118063	0	
Aroclor 1248	492695	500023	BA
Aroclor 1248	492695	500023	BA
Aroclor 1248	492695	500023	BA
Aroclor 1248	492695	500023	BA
Aroclor 1248	492695	500023	BA
Aroclor 1254	1260228	1248402	BA
Aroclor 1254	1260228	1248402	BA
Aroclor 1254	1260228	1248402	BA
Aroclor 1254	1260228	1248402	BA
Aroclor 1254	1260228	1248402	BA
Aroclor 1260	3334804	3298250	BA
Aroclor 1260	3334804	3298250	BA
Aroclor 1260	3334804	3298250	BA
Aroclor 1260	3334804	3298250	BA
Aroclor 1260	3334804	3298250	BA
Tetrachloro-m-xylene	10873240	10873240	
Decachlorobiphenyl	10493387	10493387	

==========

SAMPLE NO.

CS1-170518-01-STB-19

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295002
Date Analyzed: 03/07/2018 16:07
Lab File ID: 030718.B\030718024.D
Initial wt/vol: 9.996 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)	19.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	22.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	67.5	
1336-36-3	PCB, Total	109	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718024.D
Lab Smp Id: 40150295002 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295002,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 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	9.996	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.072	17726	13201	0.745	0.04		
1.107	25038	19625	0.784	0.06		
1.184	46831	33514	0.716	0.11		
1.799	11033	12180	1.104	0.02		
2.006	12786	12691	0.993	0.03		
2.127	30221	19297	0.639	0.07		
2.172	28520	28023	0.983	0.06		
2.210	15725	11314	0.719	0.03		
2.258	11405	10081	0.884	0.02		
2.292	38220	38042	0.995	0.09		
2.317	40216	42582	1.059	0.09		
2.411	63288	50254	0.794	0.15		
2.485	10967161	10751115	0.980	27.27	$ 2 Tetrachloro-m-xylene	
2.789	26228	21193	0.808	0.06		
2.858	36554	23257	0.636	0.08		
2.976	102398	75040	0.733	0.24		
3.020	41374	30641	0.741	0.10		
3.054	38018	31491	0.828	0.09		
3.317	35411	33838	0.956	0.08	3 Aroclor 1242	BA
3.344	37267	32478	0.872	0.09		
3.401	10128	10792	1.066	0.02		
3.434	29071	30098	1.035	0.07		
3.520	52134	41444	0.795	0.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.733	38642	27881	0.722	0.09	
3.779	12522	10159	0.811	0.03	
3.821	129724	72122	0.556	0.31	3 Aroclor 1242
3.938	57693	34981	0.606	0.13	3 Aroclor 1242
3.993	47224	34161	0.723	0.11	3 Aroclor 1242
4.052	41059	28191	0.687	0.09	
4.216	146805	137507	0.937	0.35	
4.263	143402	133965	0.934	0.34	6 Aroclor 1248
4.294	107798	83604	0.776	0.26	
4.348	25435	15649	0.615	0.06	
4.418	86390	76432	0.885	0.20	
4.454	50766	43736	0.862	0.12	
4.511	16560	15013	0.907	0.04	
4.546	113342	98509	0.869	0.27	6 Aroclor 1248
4.615	20568	19773	0.961	0.04	
4.739	26176	24184	0.924	0.06	
4.768	36566	34079	0.932	0.08	
4.813	70324	62313	0.886	0.17	6 Aroclor 1248
4.848	108277	100367	0.927	0.26	
4.894	261008	147026	0.563	0.63	6 Aroclor 1248
4.958	62527	54494	0.872	0.15	
5.004	18939	18164	0.959	0.04	
5.039	66940	66939	1.000	0.16	6 Aroclor 1248
5.062	69485	51968	0.748	0.16	
5.100	241118	158825	0.659	0.58	
5.163	352035	293559	0.834	0.85	7 Aroclor 1254
5.215	380567	330531	0.869	0.92	
5.254	33737	32427	0.961	0.08	
5.283	53938	46033	0.853	0.13	
5.315	211466	196505	0.929	0.51	
5.363	116850	95236	0.815	0.28	
5.407	124115	104557	0.842	0.30	7 Aroclor 1254
5.452	976519	986807	1.011	2.36	
5.480	26593	42270	1.590	0.06	
5.510	319100	248932	0.780	0.77	7 Aroclor 1254
5.578	77396	61300	0.792	0.18	
5.602	62397	40089	0.642	0.15	
5.676	166029	146953	0.885	0.40	
5.711	123154	90321	0.733	0.29	
5.744	132000	98041	0.743	0.32	
5.789	698580	581891	0.833	1.69	
5.823	251669	156106	0.620	0.61	
5.886	34441	42360	1.230	0.08	
5.902	99894	91228	0.913	0.24	
5.933	60013	49987	0.833	0.14	
5.966	22660	24362	1.075	0.05	
5.995	350026	316081	0.903	0.84	
6.027	205050	184152	0.898	0.49	7 Aroclor 1254
6.056	1320155	1171102	0.887	3.20	
6.122	25041	18509	0.739	0.06	
6.168	82946	88504	1.067	0.20	
6.184	148390	111739	0.753	0.35	
6.244	184461	103720	0.562	0.44	
6.299	1030067	894677	0.869	2.49	8 Aroclor 1260
6.333	77099	70684	0.917	0.18	
6.373	33449	23717	0.709	0.08	
6.433	242471	180243	0.743	0.58	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.510	968073	844036	0.872	2.34	
6.535	147423	157706	1.070	0.35	
6.562	322853	287792	0.891	0.78	
6.604	85139	52409	0.616	0.20	
6.664	32284	26983	0.836	0.07	
6.719	174910	136275	0.779	0.42	
6.758	268986	232988	0.866	0.65	
6.802	178209	156997	0.881	0.43	
6.840	291985	253038	0.867	0.70	
6.888	15268	19000	1.244	0.03	
6.913	142841	131934	0.924	0.34	
6.943	235995	223237	0.946	0.57	
7.005	896838	811251	0.905	2.17	8 Aroclor 1260
7.038	98204	72634	0.740	0.23	
7.078	27713	23160	0.836	0.06	
7.122	30471	24180	0.794	0.07	
7.252	329084	263595	0.801	0.79	8 Aroclor 1260
7.282	99430	76811	0.773	0.24	
7.339	30468	17615	0.578	0.07	
7.390	518265	479673	0.926	1.25	
7.420	20690	40834	1.974	0.05	
7.443	575427	494705	0.860	1.39	8 Aroclor 1260
7.492	80743	62669	0.776	0.19	
7.531	39912	35608	0.892	0.09	
7.559	63059	40880	0.648	0.15	
7.625	54218	31167	0.575	0.13	
7.668	16357	20268	1.239	0.03	
7.694	86646	89742	1.036	0.21	
7.728	496870	450338	0.906	1.20	
7.762	33391	32798	0.982	0.08	
7.801	282361	180767	0.640	0.68	
7.863	52400	33811	0.645	0.12	
7.902	535245	441940	0.826	1.29	8 Aroclor 1260
7.959	79865	42788	0.536	0.19	
8.012	15115	12209	0.808	0.03	
8.050	31943	22018	0.689	0.07	
8.104	20079	15071	0.751	0.04	
8.193	44560	29507	0.662	0.10	
8.275	1067600	977464	0.916	2.58	
8.377	50124	43380	0.865	0.12	
8.451	30524	15756	0.516	0.07	
8.572	10379756	9361032	0.902	25.18	$ 12 Decachlorobiphenyl
8.704	50780	47834	0.942	0.12	
8.727	107965	90390	0.837	0.26	
8.831	13001	10123	0.779	0.03	
8.941	23201	16295	0.702	0.05	
8.992	27222	23714	0.871	0.06	
9.056	22597	21088	0.933	0.05	
9.082	9658	7566	0.783	0.02	
9.168	58696	54010	0.920	0.14	
9.237	9600	9050	0.943	0.02	
9.288	28526	18550	0.650	0.06	
9.330	27038	19986	0.739	0.06	
9.403	10449	10741	1.028	0.02	
9.467	30429	21263	0.699	0.07	
9.542	15217	17310	1.138	0.03	
9.700	24397	27278	1.118	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.738	55496	45621	0.822	0.13	
9.963	17096	12661	0.741	0.04	
	41221040	37064402		100.000	

Total unknown % area = 35

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718024.D
Lab Smp Id: 40150295002 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295002,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 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	9.996	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	10967161	0.08895	44			
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			
4.262	4.261	0.001	143402	0.06121	31	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	113341	0.02731	14	0.00- 20.00	79.04	BA
4.813	4.812	0.001	70324	0.03464	17	0.00- 20.00	49.04	BA
4.893	4.879	0.014	261007	0.05181	26	0.00- 20.00	182.01	BA
5.038	5.038	0.000	66939	0.01865	9.3	0.00- 20.00	46.68	BA
Average of Peak Concentrations =					19			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	352034	0.06724	34	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	124114	0.02886	14	0.00- 20.00	35.26	BA
5.509	5.510	-0.001	319100	0.04109	20	0.00- 20.00	90.64	BA
6.026	6.027	-0.001	205050	0.04211	21	0.00- 20.00	58.25	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					22			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	1030067	0.11623	58	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	896837	0.08955	45	0.00- 20.00	87.07	BA
7.251	7.251	0.000	329083	0.06885	34	0.00- 20.00	31.95	BA
7.442	7.443	-0.001	575426	0.19739	99	0.00- 20.00	55.86	BA
7.901	7.901	0.000	535245	0.20284	100	0.00- 20.00	51.96	BA
Average of Peak Concentrations =					68			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10379756	0.09474	47			

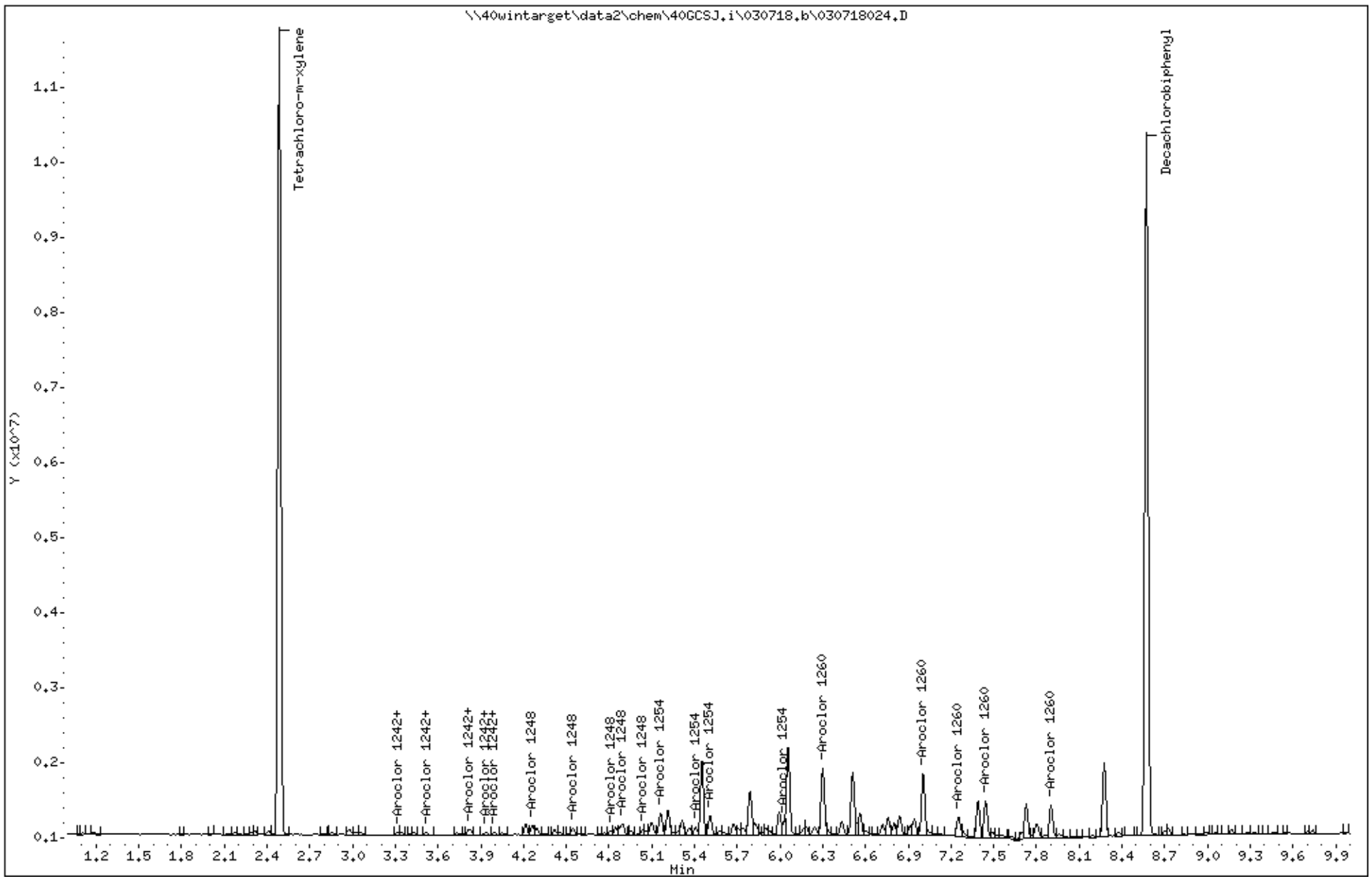
QC Flag Legend

M - Compound response manually integrated.

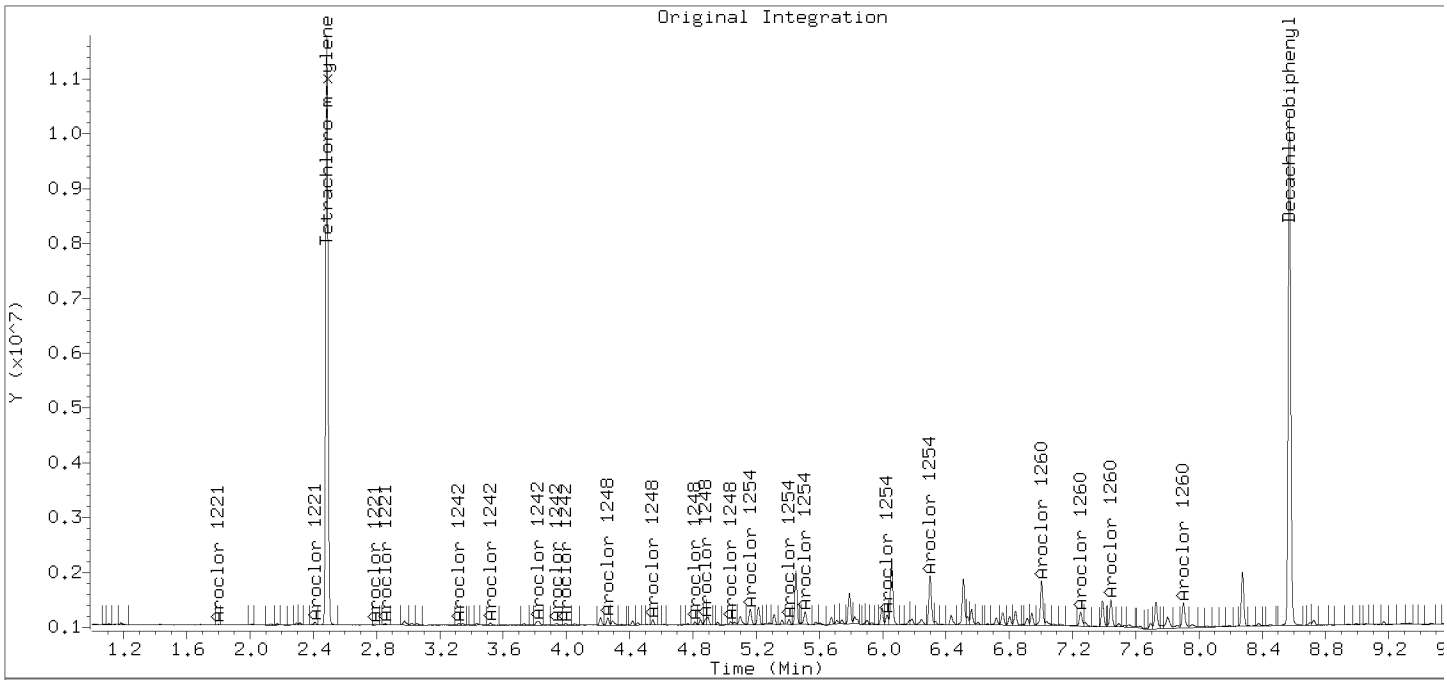
Review Codes Legend

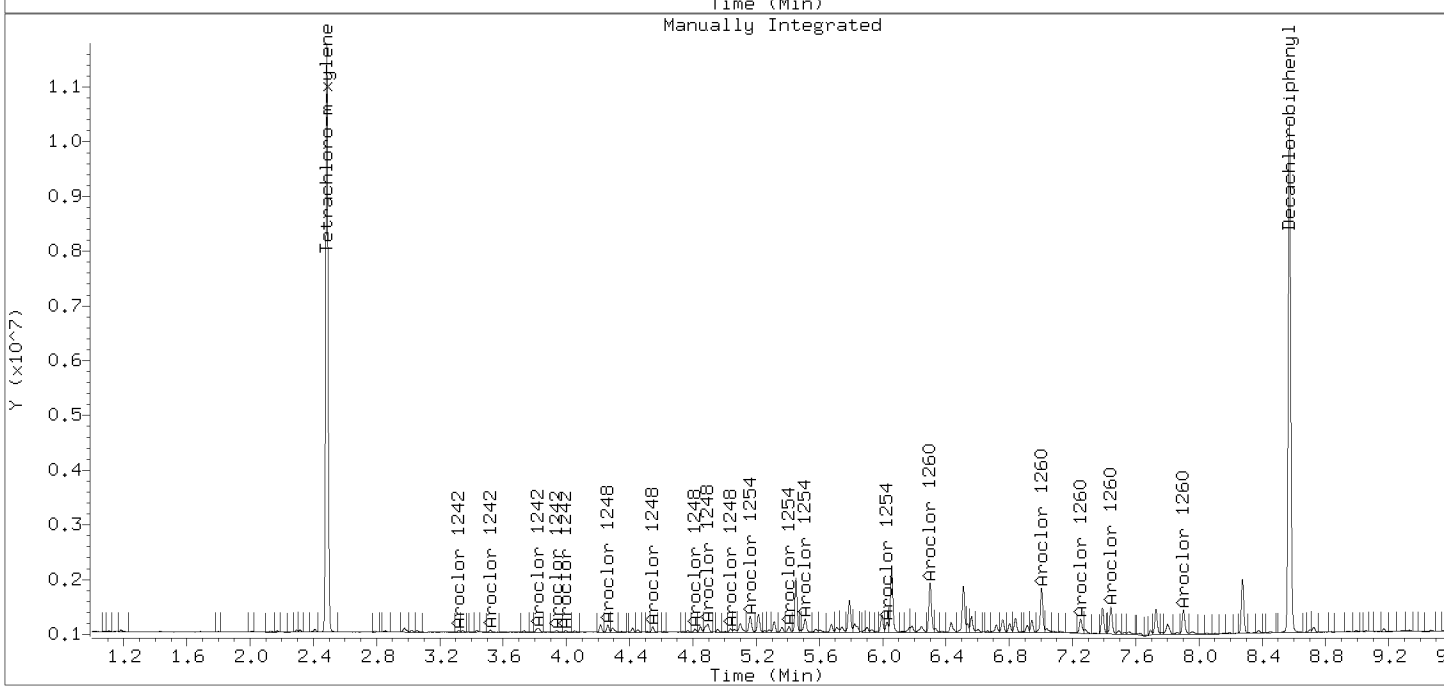
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718024.D
Date : 07-MAR-2018 16:07
Client ID: CS1-170518-01-STB-1
Instrument: 40GCSJ.i
Sample Info: 40150295002,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295002





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	11032	0	
Aroclor 1221	11032	0	
Aroclor 1221	11032	0	
Aroclor 1221	11032	0	
Aroclor 1221	11032	0	
Aroclor 1232	36553	0	
Aroclor 1232	36553	0	
Aroclor 1232	36553	0	
Aroclor 1232	36553	0	

Aroclor 1232	36553	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	136546	143402	BA
Aroclor 1248	136546	143402	BA
Aroclor 1248	136546	143402	BA
Aroclor 1248	136546	143402	BA
Aroclor 1248	136546	143402	BA
Aroclor 1254	313168	352034	BA
Aroclor 1254	313168	352034	BA
Aroclor 1254	313168	352034	BA
Aroclor 1254	313168	352034	BA
Aroclor 1254	313168	352034	BA
Aroclor 1260	1012767	1030067	BA
Aroclor 1260	1012767	1030067	BA
Aroclor 1260	1012767	1030067	BA
Aroclor 1260	1012767	1030067	BA
Aroclor 1260	1012767	1030067	BA
Tetrachloro-m-xylene	10967161	10967161	
Decachlorobiphenyl	10379756	10379756	

==========

SAMPLE NO.

CS1-170518-01-STB-18

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295003
Date Analyzed: 03/07/2018 16:23
Lab File ID: 030718.B\030718026.D
Initial wt/vol: 9.964 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)	85.8	
11097-69-1	PCB-1254 (Aroclor 1254)	108	
11096-82-5	PCB-1260 (Aroclor 1260)	83.5	
1336-36-3	PCB, Total	277	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718026.D
Lab Smp Id: 40150295003 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295003,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.025	16699	13040	0.781	0.02		
1.071	22020	17867	0.811	0.03		
1.105	31686	21155	0.668	0.04		
1.136	11300	10161	0.899	0.01		
1.163	26169	27200	1.039	0.03		
1.185	48768	30329	0.622	0.07		
1.252	11219	8500	0.758	0.01		
1.429	10153	10011	0.986	0.01		
1.494	9355	8039	0.859	0.01		
1.688	14785	11176	0.756	0.02		
1.797	19895	12919	0.649	0.02		
1.954	25049	17986	0.718	0.03		
2.009	24886	16883	0.678	0.03		
2.065	26666	17472	0.655	0.04		
2.129	39790	24919	0.626	0.05		
2.172	34363	33068	0.962	0.05		
2.211	15837	15637	0.987	0.02		
2.257	10998	11405	1.037	0.01		
2.293	39061	38046	0.974	0.05		
2.317	53581	53030	0.990	0.08		
2.361	15475	12886	0.833	0.02		
2.410	118322	96562	0.816	0.17		
2.486	11862568	11647279	0.982	18.63	$ 2 Tetrachloro-m-xylene	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.605	17586	10371	0.590	0.02	
2.643	19028	12697	0.667	0.02	
2.723	11170	8724	0.781	0.01	
2.787	30805	26491	0.860	0.04	
2.852	71209	35075	0.493	0.10	
2.975	202685	132952	0.656	0.30	
3.022	65288	59421	0.910	0.09	
3.055	84630	63970	0.756	0.12	
3.136	9339	7869	0.843	0.01	
3.167	14037	12560	0.895	0.02	
3.251	24851	13467	0.542	0.03	
3.317	60961	59812	0.981	0.09	
3.345	56415	55778	0.989	0.08	
3.434	69212	62548	0.904	0.10	
3.521	86029	78856	0.917	0.12	
3.732	60722	59312	0.977	0.09	
3.759	29824	29734	0.997	0.04	
3.827	293642	162175	0.552	0.44	
3.939	85194	58878	0.691	0.12	
3.993	77561	63499	0.819	0.11	
4.058	47068	33538	0.713	0.07	
4.138	16493	15025	0.911	0.02	
4.217	719898	682136	0.948	1.08	
4.262	958076	929441	0.970	1.44	6 Aroclor 1248
4.293	576041	477277	0.829	0.86	
4.352	36490	25041	0.686	0.05	
4.418	216943	195149	0.900	0.32	
4.453	153103	137452	0.898	0.23	
4.503	29841	19929	0.668	0.04	
4.547	411967	390368	0.948	0.62	6 Aroclor 1248
4.589	67579	62757	0.929	0.10	
4.617	38511	33631	0.873	0.05	
4.653	12448	13887	1.116	0.01	
4.682	112518	103929	0.924	0.16	
4.738	170602	137867	0.808	0.25	
4.768	64989	61414	0.945	0.09	
4.814	236530	218319	0.923	0.35	6 Aroclor 1248
4.848	225301	218094	0.968	0.33	
4.895	933356	562520	0.603	1.40	6 Aroclor 1248
4.957	456040	406607	0.892	0.68	
5.005	29925	28827	0.963	0.04	
5.038	160334	154360	0.963	0.24	6 Aroclor 1248
5.059	91633	80267	0.876	0.13	
5.102	661333	541842	0.819	0.99	
5.164	1393328	1200009	0.861	2.09	7 Aroclor 1254
5.213	1677727	1524629	0.909	2.52	
5.253	53512	54489	1.018	0.08	
5.284	396308	372469	0.940	0.59	
5.313	446963	416911	0.933	0.67	
5.364	431407	398877	0.925	0.65	
5.408	375672	343620	0.915	0.56	7 Aroclor 1254
5.453	2217367	2176044	0.981	3.34	
5.480	127589	150629	1.181	0.19	
5.511	1398808	1224928	0.876	2.10	7 Aroclor 1254
5.579	273199	233373	0.854	0.41	
5.604	140149	101363	0.723	0.21	
5.676	511035	469076	0.918	0.77	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.710	270607	204083	0.754	0.40	
5.744	508480	391825	0.771	0.76	
5.790	2712803	2184794	0.805	4.08	
5.823	416524	307639	0.739	0.62	
5.901	305155	184990	0.606	0.45	
5.931	154860	135065	0.872	0.23	
5.967	41854	41369	0.988	0.06	
5.995	889384	845682	0.951	1.34	
6.027	504860	456911	0.905	0.76	7 Aroclor 1254
6.057	3650619	3193001	0.875	5.50	
6.171	279642	213712	0.764	0.42	
6.186	214758	216254	1.007	0.32	
6.245	440448	235570	0.535	0.66	
6.300	2859480	2316004	0.810	4.30	7 Aroclor 1254
6.333	294574	270658	0.919	0.44	
6.374	79617	66310	0.833	0.11	
6.409	15733	22149	1.408	0.02	
6.434	384212	277244	0.722	0.57	
6.511	1587412	1358049	0.856	2.39	
6.536	430125	417527	0.971	0.64	
6.561	525377	475373	0.905	0.79	
6.606	253441	180982	0.714	0.38	
6.660	62285	49510	0.795	0.09	
6.720	286226	217916	0.761	0.43	
6.759	414165	348895	0.842	0.62	
6.802	419413	372581	0.888	0.63	
6.839	369233	313190	0.848	0.55	
6.891	21731	27890	1.283	0.03	
6.913	142697	132969	0.932	0.21	
6.942	424825	404547	0.952	0.64	
7.005	1362260	1210683	0.889	2.05	8 Aroclor 1260
7.035	169007	123127	0.729	0.25	
7.075	39667	36772	0.927	0.05	
7.122	34736	28735	0.827	0.05	
7.252	548862	493496	0.899	0.82	8 Aroclor 1260
7.281	199981	150768	0.754	0.30	
7.343	40444	25375	0.627	0.06	
7.390	555786	533539	0.960	0.83	
7.421	57914	83384	1.440	0.08	
7.444	643311	552344	0.859	0.96	8 Aroclor 1260
7.493	106262	78456	0.738	0.16	
7.530	44419	39832	0.897	0.06	
7.559	139933	97752	0.699	0.21	
7.625	43901	28746	0.655	0.06	
7.667	14149	18609	1.315	0.02	
7.693	95356	94294	0.989	0.14	
7.728	402084	365272	0.908	0.60	
7.765	40020	35704	0.892	0.06	
7.804	272812	151160	0.554	0.41	
7.863	52630	34520	0.656	0.07	
7.901	511278	424248	0.830	0.77	8 Aroclor 1260
7.961	114960	45336	0.394	0.17	
8.050	37975	26295	0.692	0.05	
8.102	15775	13043	0.827	0.02	
8.192	29138	20332	0.698	0.04	
8.276	842128	766766	0.911	1.26	
8.380	59803	43790	0.732	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.449	36324	18198	0.501	0.05	
8.507	10565	8652	0.819	0.01	
8.572	10672559	8977630	0.841	16.08	$ 12 Decachlorobiphenyl
8.704	36156	39290	1.087	0.05	
8.727	109592	91531	0.835	0.16	
8.840	15938	12482	0.783	0.02	
8.943	23228	16099	0.693	0.03	
8.996	20463	16419	0.802	0.03	
9.052	15421	15445	1.002	0.02	
9.169	53686	46858	0.873	0.08	
9.286	16468	14293	0.868	0.02	
9.329	18231	16389	0.899	0.02	
9.407	12366	10551	0.853	0.01	
9.469	45144	22447	0.497	0.06	
9.544	27482	16901	0.615	0.04	
9.700	18269	18487	1.012	0.02	
9.736	44534	36687	0.824	0.06	
9.967	24158	12500	0.517	0.03	
	66364626	58141779		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718026.D
Lab Smp Id: 40150295003 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295003,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.964	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	11862568	0.09621	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			
4.262	4.261	0.001	958076	0.40891	200	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	411966	0.09926	50	0.00- 20.00	43.00	BA
4.813	4.812	0.001	236529	0.11651	58	0.00- 20.00	24.69	BA
4.894	4.879	0.015	933355	0.18528	93	0.00- 20.00	97.42	BA
5.037	5.038	-0.001	160334	0.04468	22	0.00- 20.00	16.73	BA
Average of Peak Concentrations =					86			
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	1393327	0.26614	130	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	375672	0.08734	44	0.00- 20.00	26.96	BA
5.510	5.510	0.000	1398808	0.18012	90	0.00- 20.00	100.39	BA
6.027	6.027	0.000	504860	0.10367	52	0.00- 20.00	36.23	BA
6.300	6.299	0.001	2859479	0.43944	220	0.00- 20.00	205.23	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.005	7.006	-0.001	1362259	0.13603	68	0.00- 20.00	0.00	BA
7.252	7.251	0.001	548862	0.11483	58	0.00- 20.00	0.00	BA
7.443	7.443	0.000	643311	0.22068	110	0.00- 20.00	0.00	BA
7.901	7.901	0.000	511277	0.19376	97	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					83			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	10672559	0.09741	49			

QC Flag Legend

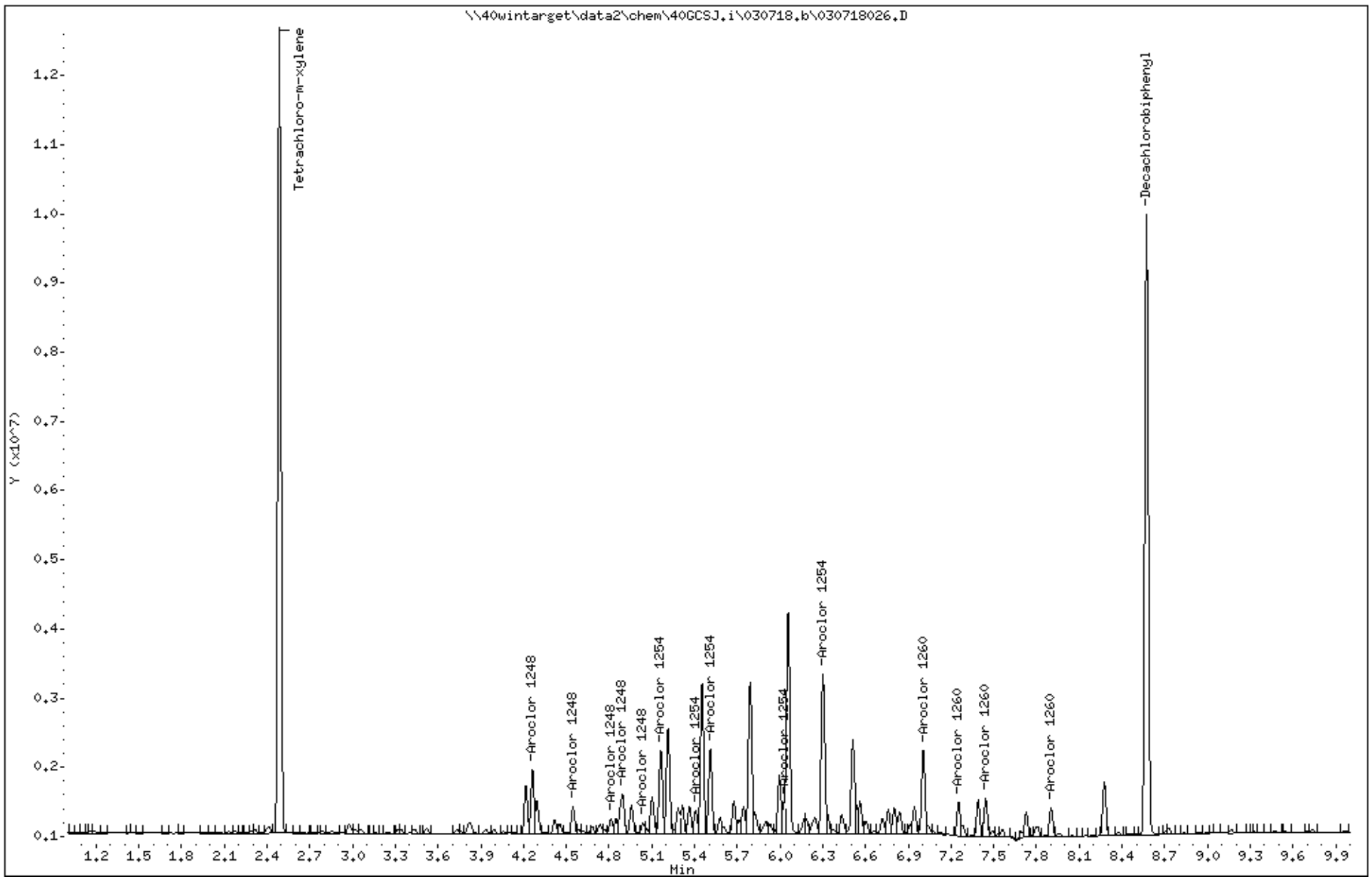
M - Compound response manually integrated.

Review Codes Legend

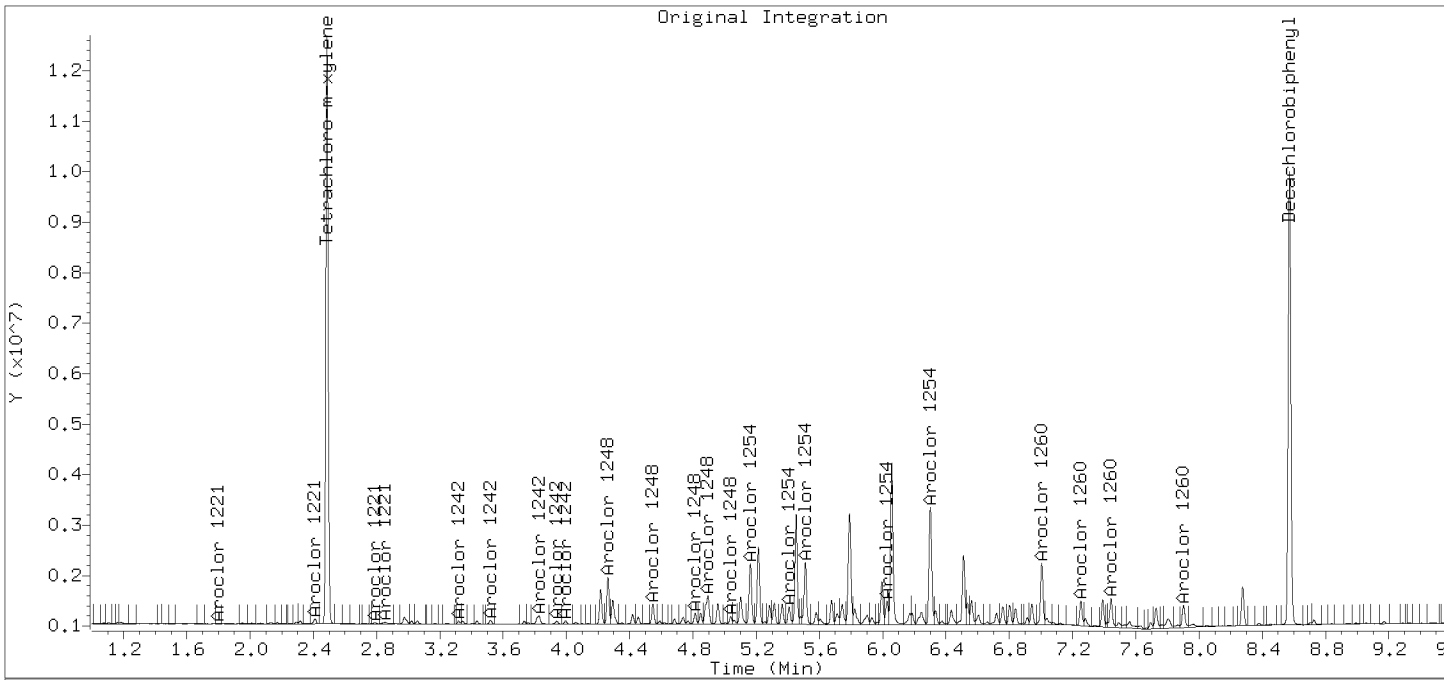
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

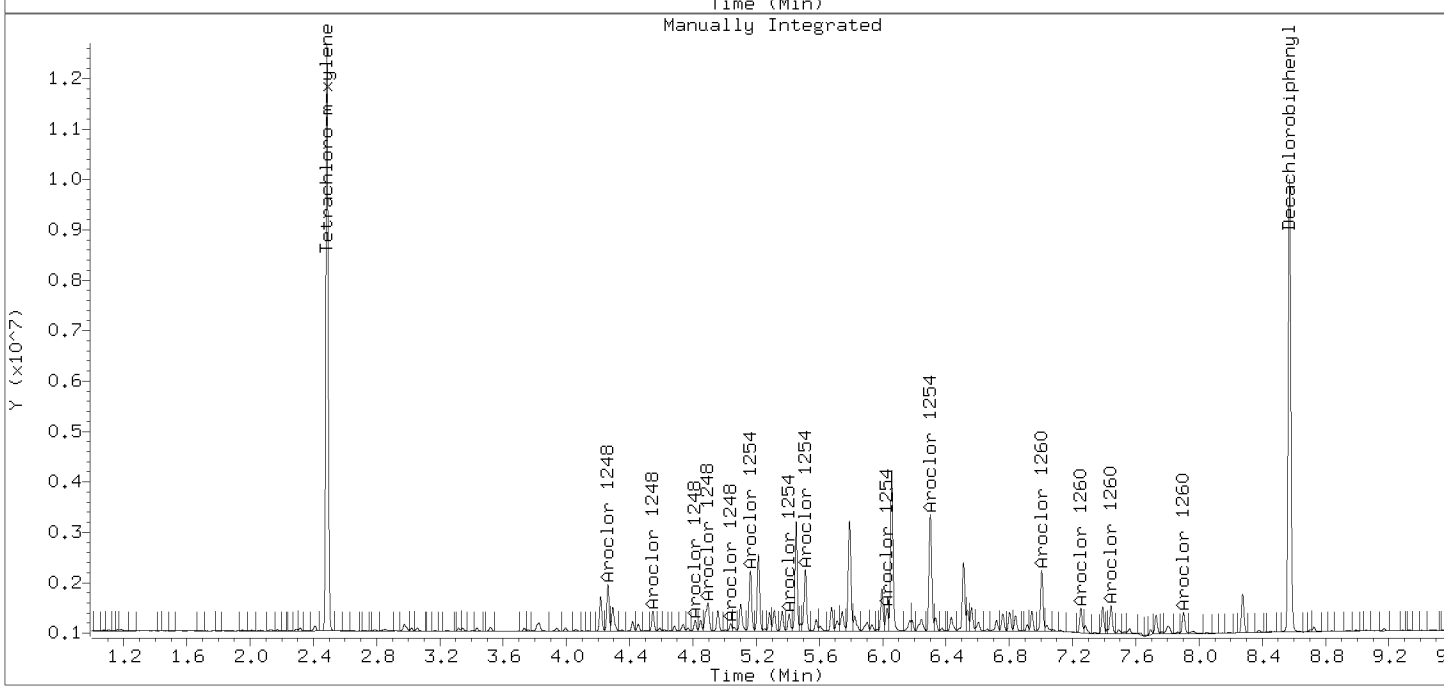
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718026.D
Date : 07-MAR-2018 16:23
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	60960	0	
Aroclor 1016	60960	0	
Aroclor 1016	60960	0	
Aroclor 1016	60960	0	
Aroclor 1016	60960	0	
Aroclor 1221	19895	0	
Aroclor 1221	19895	0	
Aroclor 1221	19895	0	
Aroclor 1221	19895	0	
Aroclor 1221	19895	0	
Aroclor 1232	71208	0	
Aroclor 1232	71208	0	
Aroclor 1232	71208	0	
Aroclor 1232	71208	0	

Aroclor 1232	71208	0	
Aroclor 1242	60960	0	
Aroclor 1242	60960	0	
Aroclor 1242	60960	0	
Aroclor 1242	60960	0	
Aroclor 1242	60960	0	
Aroclor 1248	951796	958076	BA
Aroclor 1248	951796	958076	BA
Aroclor 1248	951796	958076	BA
Aroclor 1248	951796	958076	BA
Aroclor 1248	951796	958076	BA
Aroclor 1254	1398348	1393327	BA
Aroclor 1254	1398348	1393327	BA
Aroclor 1254	1398348	1393327	BA
Aroclor 1254	1398348	1393327	BA
Aroclor 1254	1398348	1393327	BA
Aroclor 1260	2878114	0	BA
Aroclor 1260	2878114	0	BA
Aroclor 1260	2878114	0	BA
Aroclor 1260	2878114	0	BA
Aroclor 1260	2878114	0	BA
Tetrachloro-m-xylene	11862568	11862568	
Decachlorobiphenyl	10672559	10672559	

==========

SAMPLE NO.

CS1-170518-01-STB-17

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295004
Date Analyzed: 03/07/2018 16:39
Lab File ID: 030718.B\030718028.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)	68.7	
11097-69-1	PCB-1254 (Aroclor 1254)	92.8	
11096-82-5	PCB-1260 (Aroclor 1260)	142	
1336-36-3	PCB, Total	304	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718028.D
Lab Smp Id: 40150295004 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295004,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28
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
1.183	43025	30207	0.702	0.06		
1.252	10977	5820	0.530	0.01		
1.422	11373	7360	0.647	0.01		
1.534	12916	8707	0.674	0.01		
1.682	15784	7950	0.504	0.02		
2.011	26996	19356	0.717	0.03		
2.127	22424	16346	0.729	0.03		
2.173	26811	26965	1.006	0.03		
2.210	11989	12102	1.009	0.01		
2.293	48387	48064	0.993	0.07		
2.316	41745	46065	1.103	0.06		
2.358	11787	8085	0.686	0.01		
2.409	77943	60359	0.774	0.11		
2.485	9528916	9330064	0.979	14.66	$ 2 Tetrachloro-m-xylene	
2.789	29092	24899	0.856	0.04		
2.852	51165	39185	0.766	0.07		
2.975	79246	51809	0.654	0.11		
3.019	64432	59697	0.927	0.09		
3.055	89166	85186	0.955	0.13		
3.319	96000	93391	0.973	0.14		
3.344	106762	100247	0.939	0.15		
3.400	12226	10972	0.897	0.01		
3.433	114134	103388	0.906	0.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.518	136360	127493	0.935	0.19	
3.731	86445	81659	0.945	0.12	
3.756	37310	36893	0.989	0.05	
3.814	327020	199263	0.609	0.47	
3.939	120055	81760	0.681	0.17	
3.993	94380	82333	0.872	0.13	
4.060	75305	46948	0.623	0.11	
4.137	21726	18840	0.867	0.03	
4.215	481934	443113	0.919	0.70	
4.262	501391	470708	0.939	0.73	6 Aroclor 1248
4.292	432227	339996	0.787	0.63	
4.348	32758	25814	0.788	0.04	
4.417	248473	231000	0.930	0.36	
4.453	177107	160600	0.907	0.25	
4.545	368326	332687	0.903	0.53	6 Aroclor 1248
4.590	42780	38814	0.907	0.06	
4.618	73424	59211	0.806	0.10	
4.682	67219	54774	0.815	0.09	
4.737	92998	75217	0.809	0.13	
4.767	127970	117755	0.920	0.18	
4.812	272429	245737	0.902	0.39	6 Aroclor 1248
4.848	268006	255240	0.952	0.39	
4.894	939076	482067	0.513	1.37	6 Aroclor 1248
4.957	254187	205153	0.807	0.37	
5.004	32435	30027	0.926	0.04	
5.037	238712	226639	0.949	0.34	6 Aroclor 1248
5.059	75615	74982	0.992	0.11	
5.101	681677	516314	0.757	0.99	
5.162	1479966	1342699	0.907	2.16	7 Aroclor 1254
5.214	1543117	1357677	0.880	2.25	
5.254	45467	39716	0.874	0.06	
5.284	175178	157485	0.899	0.25	
5.313	509821	483127	0.948	0.74	
5.362	451608	382749	0.848	0.66	
5.408	516599	473835	0.917	0.75	7 Aroclor 1254
5.452	2696502	2547482	0.945	3.94	
5.480	115310	136070	1.180	0.16	
5.509	1353810	1139505	0.842	1.98	7 Aroclor 1254
5.578	242421	204789	0.845	0.35	
5.605	174205	131364	0.754	0.25	
5.675	647929	610851	0.943	0.94	
5.711	311404	235297	0.756	0.45	
5.743	582682	441192	0.757	0.85	
5.791	2865701	2395217	0.836	4.19	
5.821	375523	238841	0.636	0.54	
5.900	330546	213928	0.647	0.48	
5.933	180683	156622	0.867	0.26	
5.966	47591	49905	1.049	0.06	
5.994	1246209	1144318	0.918	1.82	
6.026	820272	746020	0.909	1.20	7 Aroclor 1254
6.055	4375363	3880878	0.887	6.40	
6.125	45619	35502	0.778	0.06	
6.170	756451	359805	0.476	1.10	
6.243	536210	297145	0.554	0.78	
6.301	3915888	3185423	0.813	5.73	8 Aroclor 1260
6.334	351873	329522	0.936	0.51	
6.374	94729	83816	0.885	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.433	576326	380798	0.661	0.84	
6.483	101766	94178	0.925	0.14	
6.511	2215164	2027951	0.915	3.24	
6.535	707220	684580	0.968	1.03	
6.561	790076	721748	0.914	1.15	
6.605	152305	135876	0.892	0.22	
6.660	75621	74239	0.982	0.11	
6.719	370024	339284	0.917	0.54	
6.758	591105	520972	0.881	0.86	
6.803	571558	536092	0.938	0.83	
6.840	409998	356663	0.870	0.60	
6.887	51186	52545	1.027	0.07	
6.912	157733	152052	0.964	0.23	
6.944	593570	557850	0.940	0.86	
7.005	2232113	2017674	0.904	3.26	8 Aroclor 1260
7.036	153913	158769	1.032	0.22	
7.055	131376	105903	0.806	0.19	
7.124	33996	29778	0.876	0.04	
7.251	863641	767109	0.888	1.26	8 Aroclor 1260
7.282	206107	172731	0.838	0.30	
7.341	23445	17037	0.727	0.03	
7.390	848266	749309	0.883	1.24	
7.443	902766	782921	0.867	1.32	8 Aroclor 1260
7.496	84207	52979	0.629	0.12	
7.529	26565	26281	0.989	0.03	
7.554	84365	51849	0.615	0.12	
7.692	205267	186172	0.907	0.30	
7.727	326680	275077	0.842	0.47	
7.763	89033	69218	0.777	0.13	
7.809	255411	148778	0.583	0.37	
7.867	40689	23747	0.584	0.05	
7.901	716698	634909	0.886	1.04	8 Aroclor 1260
7.958	112175	65454	0.583	0.16	
8.050	31716	28466	0.898	0.04	
8.104	12026	10269	0.854	0.01	
8.193	17049	17051	1.000	0.02	
8.275	627079	591742	0.944	0.91	
8.378	65717	54095	0.823	0.09	
8.454	16398	12434	0.758	0.02	
8.571	8916200	7874806	0.883	13.05	$ 12 Decachlorobiphenyl
8.703	19354	16702	0.863	0.02	
8.726	55250	43022	0.779	0.08	
8.943	21874	13943	0.637	0.03	
8.996	10277	8217	0.800	0.01	
9.169	64966	61337	0.944	0.09	
9.285	15867	12640	0.797	0.02	
9.332	12766	11596	0.908	0.01	
9.468	12238	11082	0.906	0.01	
9.697	22652	19895	0.878	0.03	
9.737	18783	16069	0.855	0.02	
9.964	21748	14452	0.665	0.03	
	68291644	59846382		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718028.D
Lab Smp Id: 40150295004 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295004,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28
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			
2.484	2.484	0.000	9528915	0.07729	38			
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	501390	0.21400	110	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	368326	0.08875	44	0.00- 20.00	73.46	CO
4.812	4.812	0.000	272428	0.13420	67	0.00- 20.00	54.33	CO
4.893	4.879	0.014	939076	0.18642	93	0.00- 20.00	187.29	CO
5.036	5.038	-0.002	238711	0.06652	33	0.00- 20.00	47.61	CO
Average of Peak Concentrations =					69			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1479966	0.28269	140	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	516598	0.12011	60	0.00- 20.00	34.91	BA
5.509	5.510	-0.001	1353809	0.17432	87	0.00- 20.00	91.48	BA
6.025	6.027	-0.002	820272	0.16844	84	0.00- 20.00	55.43	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					93			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3915887	0.44186	220	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	2232112	0.22289	110	0.00- 20.00	57.00	BA
7.251	7.251	0.000	863640	0.18069	90	0.00- 20.00	22.05	BA
7.442	7.443	-0.001	902765	0.30968	150	0.00- 20.00	23.05	BA
7.900	7.901	-0.001	716697	0.27161	140	0.00- 20.00	18.30	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	8916200	0.08138	40			

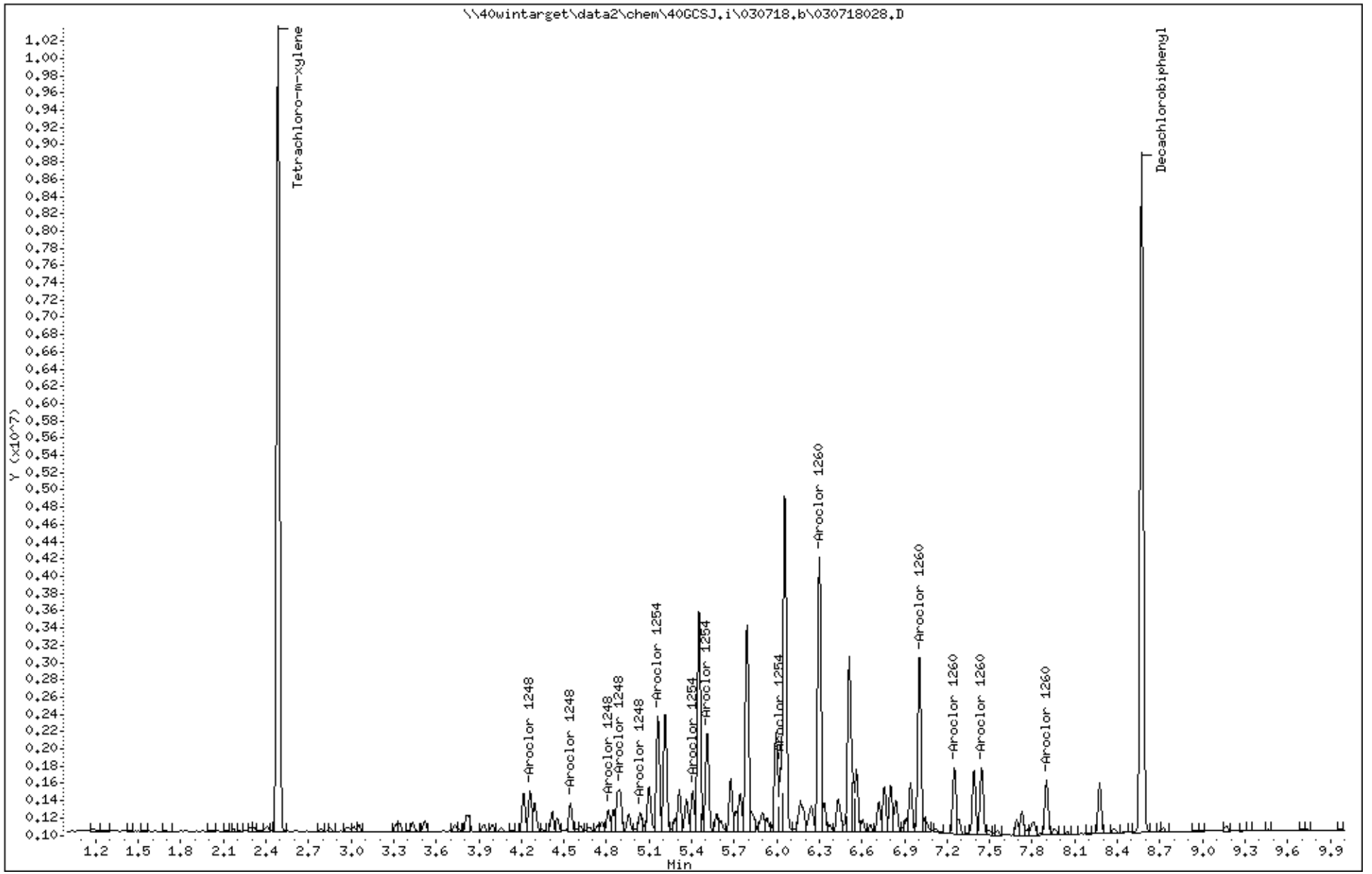
QC Flag Legend

M - Compound response manually integrated.

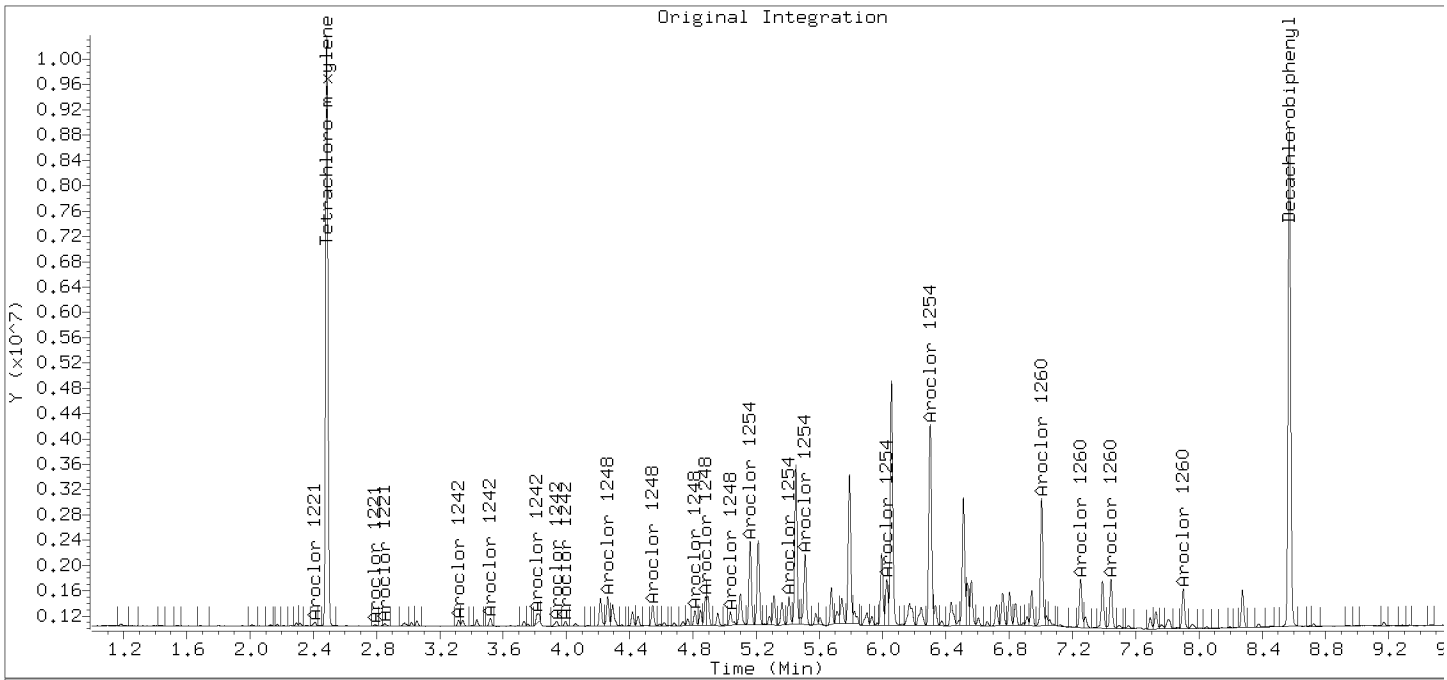
Review Codes Legend

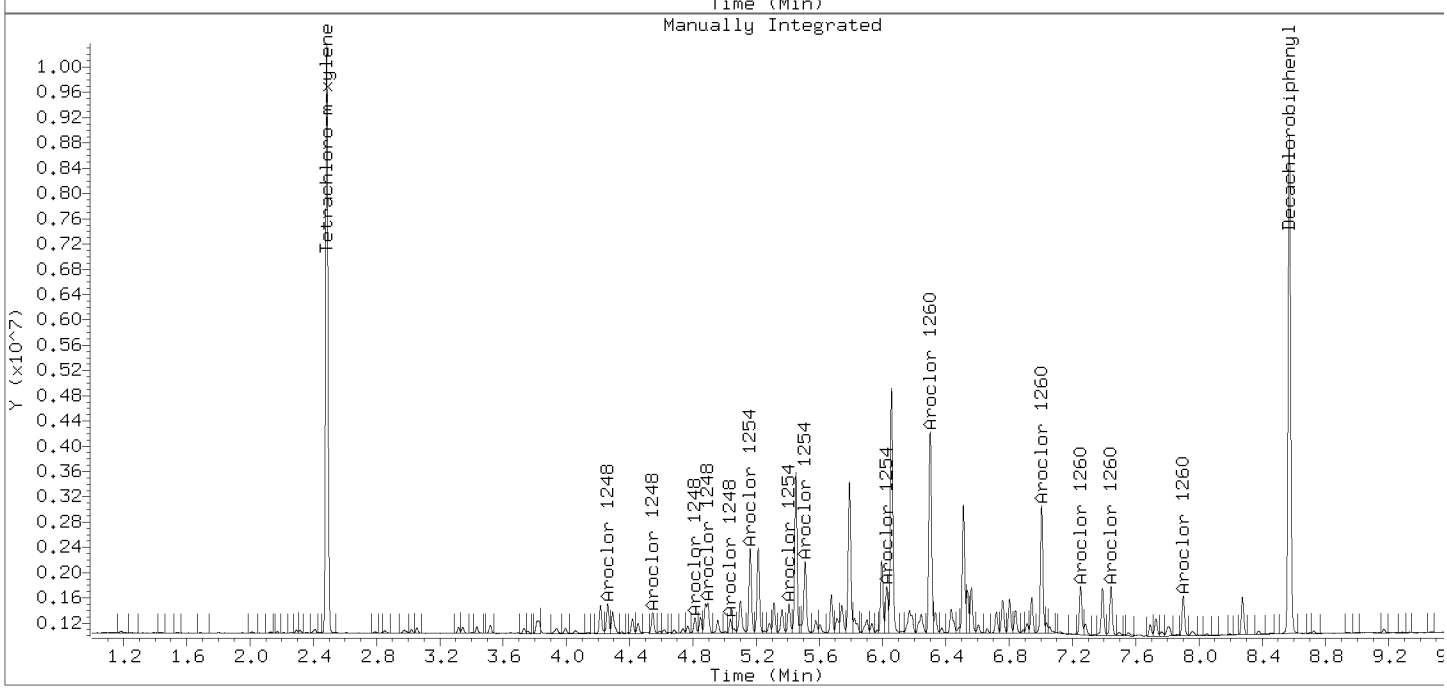
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718028.D
Date : 07-MAR-2018 16:39
Client ID: CS1-170518-01-STB-1
Instrument: 40GCSJ.i
Sample Info: 40150295004,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718028.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	96000	0	
Aroclor 1016	96000	0	
Aroclor 1016	96000	0	
Aroclor 1016	96000	0	
Aroclor 1016	96000	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	51165	0	
Aroclor 1232	51165	0	
Aroclor 1232	51165	0	
Aroclor 1232	51165	0	

Aroclor 1232	51165	0	
Aroclor 1242	96000	0	
Aroclor 1242	96000	0	
Aroclor 1242	96000	0	
Aroclor 1242	96000	0	
Aroclor 1242	96000	0	
Aroclor 1248	488035	501390	CO
Aroclor 1248	488035	501390	CO
Aroclor 1248	488035	501390	CO
Aroclor 1248	488035	501390	CO
Aroclor 1248	488035	501390	CO
Aroclor 1254	1402891	1479966	BA
Aroclor 1254	1402891	1479966	BA
Aroclor 1254	1402891	1479966	BA
Aroclor 1254	1402891	1479966	BA
Aroclor 1254	1402891	1479966	BA
Aroclor 1260	3880206	3915887	BA
Aroclor 1260	3880206	3915887	BA
Aroclor 1260	3880206	3915887	BA
Aroclor 1260	3880206	3915887	BA
Aroclor 1260	3880206	3915887	BA
Tetrachloro-m-xylene	9528915	9528915	
Decachlorobiphenyl	8916200	8916200	

==========

SAMPLE NO.

CS1-170518-01-STB-16

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295005
Date Analyzed: 03/07/2018 16:55
Lab File ID: 030718.B\030718030.D
Initial wt/vol: 9.9735 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)	47.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	57.0	
11096-82-5	PCB-1260 (Aroclor 1260)	65.0	
1336-36-3	PCB, Total	169	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718030.D
Lab Smp Id: 40150295005 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295005,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.973	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	36270	30548	0.842	0.07		
1.428	12501	9208	0.737	0.02		
1.688	13288	8850	0.666	0.02		
1.805	9940	9048	0.910	0.01		
2.011	25526	20278	0.794	0.05		
2.127	26822	19634	0.732	0.05		
2.174	26030	25088	0.964	0.05		
2.212	10230	11370	1.111	0.02		
2.262	9873	9326	0.945	0.01		
2.293	53619	51838	0.967	0.10		
2.317	45434	45714	1.006	0.08		
2.360	14513	11260	0.776	0.02		
2.409	65718	47868	0.728	0.13		
2.485	10428563	10297436	0.987	21.27	$ 2 Tetrachloro-m-xylene	
2.789	26990	23378	0.866	0.05		
2.851	48540	30403	0.626	0.09		
2.916	13896	7112	0.512	0.02		
2.976	75359	51845	0.688	0.14		
3.021	51900	48310	0.931	0.10		
3.056	67844	57077	0.841	0.13		
3.318	66402	59326	0.893	0.13		
3.343	63002	62039	0.985	0.12		
3.399	12281	13099	1.067	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.434	75342	60947	0.809	0.14	
3.518	101458	83285	0.821	0.20	
3.645	10380	8148	0.785	0.02	
3.733	48162	41158	0.855	0.09	
3.827	214420	125259	0.584	0.42	
3.939	86088	54791	0.636	0.17	
3.994	72270	59165	0.819	0.14	
4.059	58419	34267	0.587	0.11	
4.136	17323	16614	0.959	0.03	
4.215	346887	280051	0.807	0.68	
4.261	333002	306559	0.921	0.65	6 Aroclor 1248
4.292	310601	237692	0.765	0.61	
4.350	37999	25845	0.680	0.07	
4.417	193703	169269	0.874	0.38	
4.454	136665	110233	0.807	0.27	
4.508	48541	22126	0.456	0.09	
4.546	276164	230579	0.835	0.54	6 Aroclor 1248
4.590	43854	35802	0.816	0.08	
4.618	72675	51128	0.704	0.14	
4.681	56928	41141	0.723	0.11	
4.738	76208	55403	0.727	0.15	
4.769	140604	116265	0.827	0.27	
4.813	187259	150548	0.804	0.37	6 Aroclor 1248
4.848	194200	177168	0.912	0.38	
4.894	648459	353685	0.545	1.28	6 Aroclor 1248
4.957	209996	159994	0.762	0.41	
5.003	37502	30635	0.817	0.07	
5.038	139609	127853	0.916	0.27	6 Aroclor 1248
5.060	118442	90787	0.767	0.23	
5.100	505621	340426	0.673	1.00	
5.162	912295	801798	0.879	1.80	7 Aroclor 1254
5.213	942207	841847	0.893	1.86	
5.255	98968	81407	0.823	0.19	
5.284	137032	118139	0.862	0.27	
5.313	365747	313559	0.857	0.72	
5.362	323819	239335	0.739	0.64	
5.407	303822	264466	0.870	0.60	7 Aroclor 1254
5.452	2270908	2250718	0.991	4.49	
5.478	75822	101591	1.340	0.15	
5.510	887358	709525	0.800	1.75	7 Aroclor 1254
5.578	180764	130998	0.725	0.35	
5.604	153894	91569	0.595	0.30	
5.675	392143	347221	0.885	0.77	
5.710	229012	174231	0.761	0.45	
5.742	333068	246293	0.739	0.65	
5.790	1648028	1353156	0.821	3.26	
5.822	411072	256835	0.625	0.81	
5.900	248880	138254	0.556	0.49	
5.932	123277	103469	0.839	0.24	
5.963	32477	33067	1.018	0.06	
5.994	676904	646025	0.954	1.34	
6.027	466673	412169	0.883	0.92	7 Aroclor 1254
6.056	2322825	1978853	0.852	4.60	
6.123	76900	51141	0.665	0.15	
6.170	232085	176530	0.761	0.45	
6.183	163813	163359	0.997	0.32	
6.242	306543	179577	0.586	0.60	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.300	2137274	1789201	0.837	4.23	8 Aroclor 1260
6.334	165416	150578	0.910	0.32	
6.373	58200	47159	0.810	0.11	
6.432	303829	216017	0.711	0.60	
6.490	47127	48457	1.028	0.09	
6.510	1091108	1009755	0.925	2.16	
6.535	384094	366612	0.954	0.76	
6.561	376142	325164	0.864	0.74	
6.606	78865	62105	0.787	0.15	
6.659	47215	37132	0.786	0.09	
6.718	224333	195749	0.873	0.44	
6.758	354366	302283	0.853	0.70	
6.802	268320	248245	0.925	0.53	
6.840	238173	194523	0.817	0.47	
6.889	18074	20106	1.112	0.03	
6.913	86882	81825	0.942	0.17	
6.942	303537	272284	0.897	0.60	
7.005	964189	869818	0.902	1.90	8 Aroclor 1260
7.036	104363	78392	0.751	0.20	
7.079	41077	27069	0.659	0.08	
7.123	33135	23034	0.695	0.06	
7.251	380471	332219	0.873	0.75	8 Aroclor 1260
7.282	103525	84436	0.816	0.20	
7.337	19542	15357	0.786	0.03	
7.367	13002	21162	1.628	0.02	
7.389	374753	339839	0.907	0.74	
7.420	52468	65754	1.253	0.10	
7.443	396622	336611	0.849	0.78	8 Aroclor 1260
7.493	93265	53438	0.573	0.18	
7.560	67703	49009	0.724	0.13	
7.620	28670	16424	0.573	0.05	
7.691	81564	77027	0.944	0.16	
7.727	209576	183792	0.877	0.41	
7.766	23711	22849	0.964	0.04	
7.810	131940	75615	0.573	0.26	
7.900	250979	235493	0.938	0.49	8 Aroclor 1260
7.959	29734	18399	0.619	0.05	
8.052	12914	11537	0.893	0.02	
8.191	14416	10950	0.760	0.02	
8.275	381835	336765	0.882	0.75	
8.378	41902	32078	0.766	0.08	
8.571	9907239	8652917	0.873	19.62	$ 12 Decachlorobiphenyl
8.705	20150	19138	0.950	0.03	
8.726	44258	40148	0.907	0.08	
8.836	12882	11121	0.863	0.02	
8.943	21999	16175	0.735	0.04	
8.986	11840	8471	0.715	0.02	
9.167	34673	30796	0.888	0.06	
9.464	32217	17366	0.539	0.06	
9.701	14223	10436	0.734	0.02	
9.734	20559	14773	0.719	0.04	
9.963	13143	12590	0.958	0.02	
	50487148	44270203		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718030.D
Lab Smp Id: 40150295005 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 16:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295005,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.973	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			
2.485	2.484	0.001	10428563	0.08458	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS 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	333002	0.14213	71	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	276164	0.06654	33	0.00- 20.00	82.93	BA
4.812	4.812	0.000	187258	0.09224	46	0.00- 20.00	56.23	BA
4.894	4.879	0.015	648458	0.12873	64	0.00- 20.00	194.73	BA
5.037	5.038	-0.001	139609	0.03890	20	0.00- 20.00	41.92	BA
Average of Peak Concentrations =					47			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	912294	0.17426	87	0.00- 20.00	100.00(M)	CO
5.407	5.408	-0.001	303821	0.07064	35	0.00- 20.00	33.30	CO
5.510	5.510	0.000	887357	0.11426	57	0.00- 20.00	97.27	CO
6.027	6.027	0.000	466673	0.09583	48	0.00- 20.00	51.15	CO
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					57			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	2137274	0.24116	120	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	964188	0.09628	48	0.00- 20.00	45.11	BA
7.251	7.251	0.000	380471	0.07960	40	0.00- 20.00	17.80	BA
7.443	7.443	0.000	396622	0.13606	68	0.00- 20.00	18.56	BA
7.900	7.901	-0.001	250978	0.09511	48	0.00- 20.00	11.74	BA
Average of Peak Concentrations =					65			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9907238	0.09043	45			

QC Flag Legend

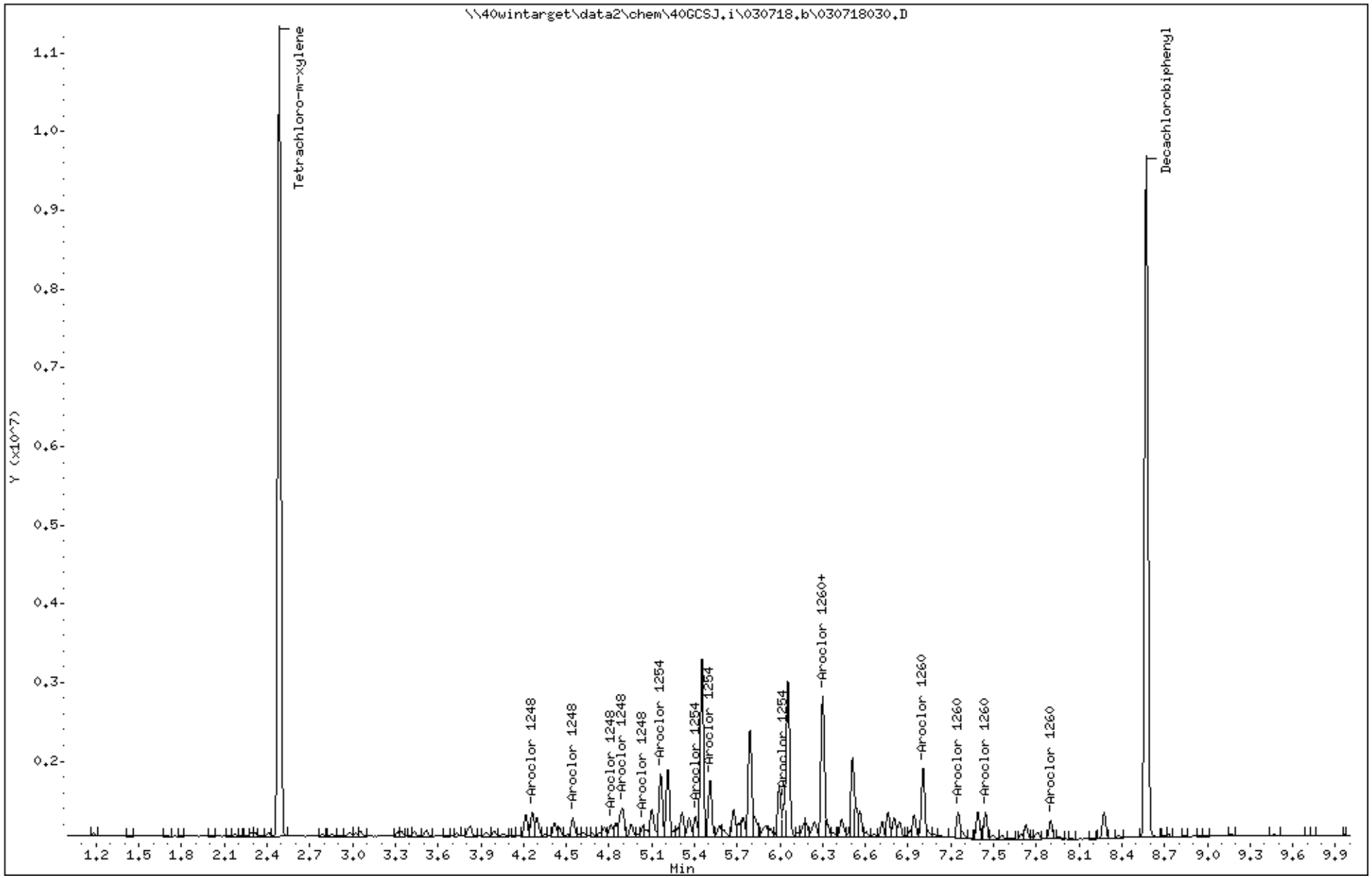
M - Compound response manually integrated.

Review Codes Legend

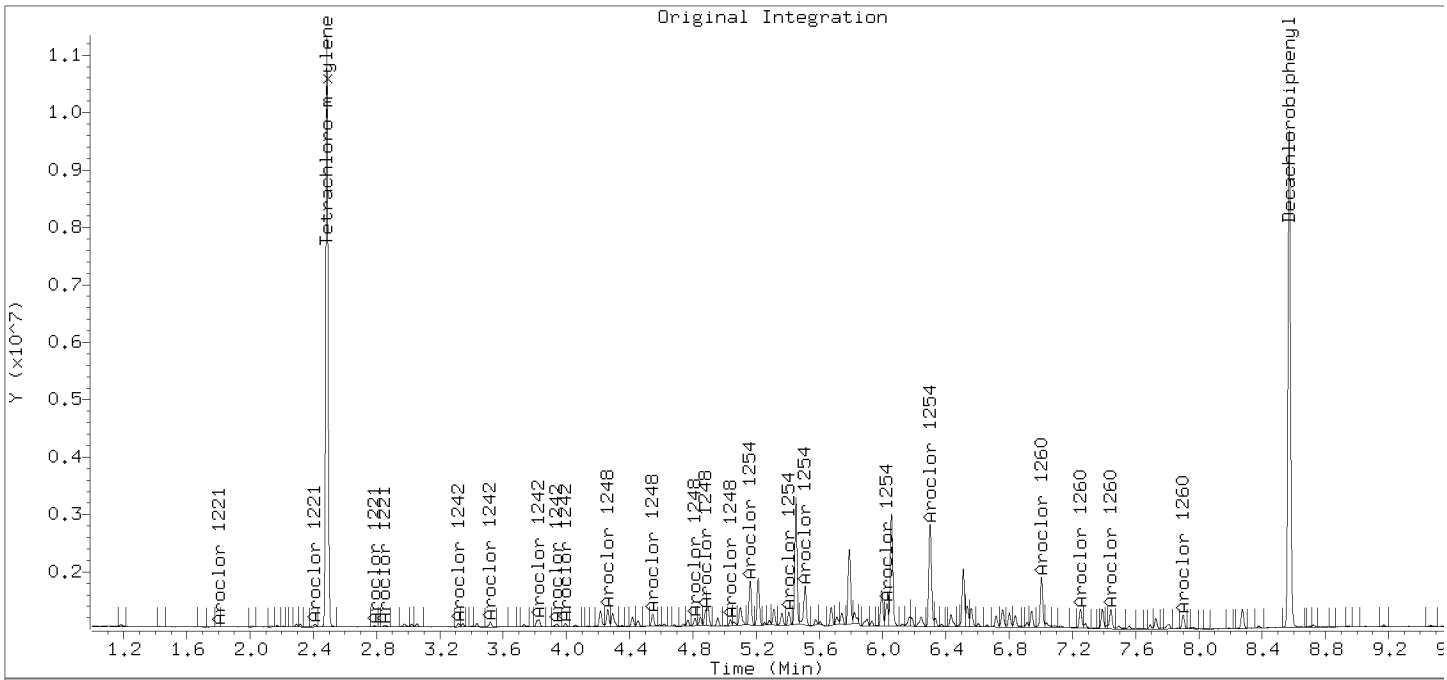
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

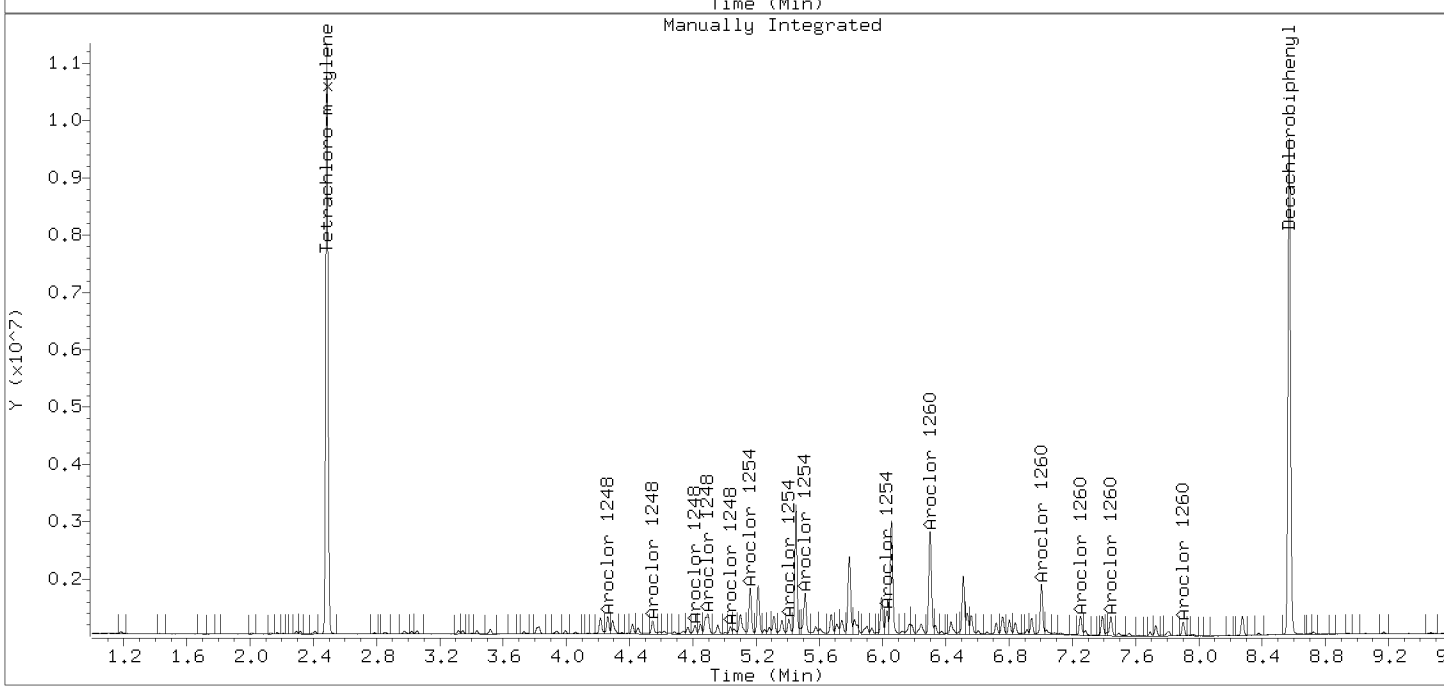
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718030.D
Date : 07-MAR-2018 16:55
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66401	0	
Aroclor 1016	66401	0	
Aroclor 1016	66401	0	
Aroclor 1016	66401	0	
Aroclor 1016	66401	0	
Aroclor 1221	9940	0	
Aroclor 1221	9940	0	
Aroclor 1221	9940	0	
Aroclor 1221	9940	0	
Aroclor 1221	9940	0	
Aroclor 1232	48540	0	
Aroclor 1232	48540	0	
Aroclor 1232	48540	0	
Aroclor 1232	48540	0	

Aroclor 1232	48540	0	
Aroclor 1242	66401	0	
Aroclor 1242	66401	0	
Aroclor 1242	66401	0	
Aroclor 1242	66401	0	
Aroclor 1242	66401	0	
Aroclor 1248	313141	333002	BA
Aroclor 1248	313141	333002	BA
Aroclor 1248	313141	333002	BA
Aroclor 1248	313141	333002	BA
Aroclor 1248	313141	333002	BA
Aroclor 1254	813713	912294	CO
Aroclor 1254	813713	912294	CO
Aroclor 1254	813713	912294	CO
Aroclor 1254	813713	912294	CO
Aroclor 1254	813713	912294	CO
Aroclor 1260	2103189	2137274	BA
Aroclor 1260	2103189	2137274	BA
Aroclor 1260	2103189	2137274	BA
Aroclor 1260	2103189	2137274	BA
Aroclor 1260	2103189	2137274	BA
Tetrachloro-m-xylene	10428563	10428563	
Decachlorobiphenyl	9907238	9907238	

==========

SAMPLE NO.

CS1-170518-01-STB-15

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295006
Date Analyzed: 03/07/2018 17:44
Lab File ID: 030718.B\030718036.D
Initial wt/vol: 9.9767 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)	238	
11097-69-1	PCB-1254 (Aroclor 1254)	196	
11096-82-5	PCB-1260 (Aroclor 1260)	220	
1336-36-3	PCB, Total	654	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718036.D
Lab Smp Id: 40150295006 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 17:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295006,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	14054	11576	0.824	0.01		
1.074	25532	17767	0.696	0.02		
1.104	28228	22068	0.782	0.02		
1.158	21649	16698	0.771	0.01		
1.430	9665	9746	1.008	0.00		
1.535	10884	9948	0.914	0.00		
1.683	23217	17857	0.769	0.01		
1.798	23164	19143	0.826	0.01		
1.830	13658	14871	1.089	0.01		
1.949	20332	16957	0.834	0.01		
2.064	14365	12676	0.882	0.01		
2.131	27741	19672	0.709	0.02		
2.172	27796	29405	1.058	0.02		
2.209	15524	12247	0.789	0.01		
2.290	43520	46189	1.061	0.03		
2.314	45519	46012	1.011	0.03		
2.357	13659	11490	0.841	0.01		
2.410	106011	87837	0.829	0.08		
2.484	11407078	11432794	1.002	9.82	$ 2 Tetrachloro-m-xylene	
2.789	32069	28718	0.895	0.02		
2.849	86856	44401	0.511	0.06		
2.974	224487	178885	0.797	0.17		
3.019	49873	52648	1.056	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.055	111459	92031	0.826	0.08	
3.317	236792	237248	1.002	0.18	
3.345	302846	284378	0.939	0.24	
3.401	13624	13969	1.025	0.01	
3.434	269104	249612	0.928	0.21	
3.519	412499	371063	0.900	0.32	
3.645	37108	31766	0.856	0.02	
3.731	333557	334656	1.003	0.26	
3.756	157650	145868	0.925	0.12	
3.824	1496439	870322	0.582	1.18	
3.938	385684	298949	0.775	0.30	
3.993	297028	282471	0.951	0.23	
4.058	187992	164091	0.873	0.14	
4.136	47643	48171	1.011	0.03	
4.215	2009841	1844702	0.918	1.59	
4.261	2098800	1953491	0.931	1.66	6 Aroclor 1248
4.292	1885914	1549269	0.821	1.49	
4.348	71228	61815	0.868	0.05	
4.417	1052663	1000184	0.950	0.83	
4.453	721892	693026	0.960	0.57	
4.498	40064	21916	0.547	0.03	
4.545	1591925	1509419	0.948	1.26	6 Aroclor 1248
4.588	104453	100814	0.965	0.08	
4.617	278258	235227	0.845	0.22	
4.681	153572	141686	0.923	0.12	
4.737	273036	217720	0.797	0.21	
4.767	182597	178271	0.976	0.14	
4.812	740974	728984	0.984	0.58	6 Aroclor 1248
4.847	996957	972866	0.976	0.79	
4.894	2678572	1447356	0.540	2.12	6 Aroclor 1248
4.957	784398	674111	0.859	0.62	
5.003	105973	103435	0.976	0.08	
5.037	723549	702045	0.970	0.57	6 Aroclor 1248
5.059	259677	277871	1.070	0.20	
5.100	1740211	1367135	0.786	1.38	
5.162	3005270	2650434	0.882	2.38	7 Aroclor 1254
5.214	3196497	2848124	0.891	2.53	
5.255	303251	286921	0.946	0.24	
5.282	399027	347484	0.871	0.31	
5.313	1414722	1329890	0.940	1.12	
5.363	963780	926209	0.961	0.76	
5.407	1219103	1138626	0.934	0.96	7 Aroclor 1254
5.451	7841408	7859938	1.002	6.22	
5.478	206939	293397	1.418	0.16	
5.509	2971597	2493944	0.839	2.36	7 Aroclor 1254
5.578	392141	344731	0.879	0.31	
5.604	420730	322678	0.767	0.33	
5.675	1208632	1105993	0.915	0.96	
5.710	630828	460792	0.730	0.50	
5.743	1001604	714417	0.713	0.79	
5.790	5005269	4124161	0.824	3.97	
5.822	1226054	1149088	0.937	0.97	
5.900	861837	617261	0.716	0.68	
5.930	299419	264724	0.884	0.23	
5.964	85805	90599	1.056	0.06	
5.993	1839684	1744659	0.948	1.46	
6.026	1588763	1432523	0.902	1.26	7 Aroclor 1254

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.055	7110387	6290967	0.885	5.64	
6.168	1218943	645047	0.529	0.96	
6.244	1001050	603669	0.603	0.79	
6.299	6740250	5643419	0.837	5.35	8 Aroclor 1260
6.333	565498	536591	0.949	0.44	
6.374	155336	142016	0.914	0.12	
6.407	23592	30520	1.294	0.01	
6.432	835518	599831	0.718	0.66	
6.485	111222	131050	1.178	0.08	
6.510	3240565	3000747	0.926	2.57	
6.535	1203271	1154895	0.960	0.95	
6.561	1245547	1144069	0.919	0.98	
6.603	363510	255373	0.703	0.28	
6.636	39505	39497	1.000	0.03	
6.659	130482	121201	0.929	0.10	
6.718	609338	546247	0.896	0.48	
6.757	1096972	944284	0.861	0.87	
6.802	923086	862231	0.934	0.73	
6.839	695228	611709	0.880	0.55	
6.886	56185	59596	1.061	0.04	
6.913	261329	258370	0.989	0.20	
6.942	1509162	1458063	0.966	1.19	
7.005	3318260	3036847	0.915	2.63	8 Aroclor 1260
7.036	250044	246417	0.985	0.19	
7.056	151651	117162	0.773	0.12	
7.099	7628	11179	1.466	0.00	
7.121	54604	53373	0.977	0.04	
7.165	20198	12412	0.615	0.01	
7.251	1289702	1140385	0.884	1.02	8 Aroclor 1260
7.280	332452	283872	0.854	0.26	
7.335	23356	20313	0.870	0.01	
7.390	1328678	1158155	0.872	1.05	
7.424	71079	96808	1.362	0.05	
7.444	1325816	1188710	0.897	1.05	8 Aroclor 1260
7.492	229928	178300	0.775	0.18	
7.528	77726	75018	0.965	0.06	
7.559	180906	146546	0.810	0.14	
7.621	55500	33056	0.596	0.04	
7.691	264958	244032	0.921	0.21	
7.728	808371	726035	0.898	0.64	
7.763	76903	72122	0.938	0.06	
7.809	596411	351777	0.590	0.47	
7.861	53944	37009	0.686	0.04	
7.901	988870	862962	0.873	0.78	8 Aroclor 1260
7.961	173189	86934	0.502	0.13	
8.046	32660	26393	0.808	0.02	
8.101	20593	18614	0.904	0.01	
8.193	49973	34518	0.691	0.03	
8.276	1643602	1431756	0.871	1.30	
8.350	9778	10492	1.073	0.00	
8.376	78572	66694	0.849	0.06	
8.449	54193	30835	0.569	0.04	
8.501	13135	11369	0.866	0.01	
8.571	11117415	9548297	0.859	8.83	$ 12 Decachlorobiphenyl
8.703	87734	77740	0.886	0.06	
8.726	189339	159972	0.845	0.15	
8.840	15996	14601	0.913	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.944	15568	10674	0.686	0.01	
8.995	28158	24737	0.878	0.02	
9.075	17488	10356	0.592	0.01	
9.168	141771	125875	0.888	0.11	
9.288	33436	23642	0.707	0.02	
9.330	33866	25215	0.745	0.02	
9.403	13614	13790	1.013	0.01	
9.464	39326	22656	0.576	0.03	
9.540	32796	24887	0.759	0.02	
9.569	16181	17899	1.106	0.01	
9.595	20588	15110	0.734	0.01	
9.674	20946	18188	0.868	0.01	
9.701	53978	46328	0.858	0.04	
9.737	74303	53673	0.722	0.05	
9.858	19404	16661	0.859	0.01	
9.944	12521	11481	0.917	0.00	
9.963	13186	13845	1.050	0.01	
9.980	17046	19365	1.136	0.01	
	125884532	111096615		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718036.D
Lab Smp Id: 40150295006 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 17:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295006,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11407078	0.09252	46			
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	2098799	0.89578	450	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1591924	0.38357	190	0.00- 20.00	75.85	BA
4.812	4.812	0.000	740974	0.36500	180	0.00- 20.00	35.30	BA
4.894	4.879	0.015	2678572	0.53173	270	0.00- 20.00	127.62	BA
5.037	5.038	-0.001	723549	0.20163	100	0.00- 20.00	34.47	BA
Average of Peak Concentrations =					240			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	3005270	0.57405	290	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1219102	0.28344	140	0.00- 20.00	40.57	BA
5.509	5.510	-0.001	2971596	0.38264	190	0.00- 20.00	98.88	BA
6.026	6.027	-0.001	1588762	0.32626	160	0.00- 20.00	52.87	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	6740249	0.76055	380	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	3318260	0.33135	170	0.00- 20.00	49.23	BA
7.251	7.251	0.000	1289702	0.26982	140	0.00- 20.00	19.13	BA
7.443	7.443	0.000	1325816	0.45481	230	0.00- 20.00	19.67	BA
7.900	7.901	-0.001	988870	0.37475	190	0.00- 20.00	14.67	BA
Average of Peak Concentrations =					220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11117415	0.10147	51			

QC Flag Legend

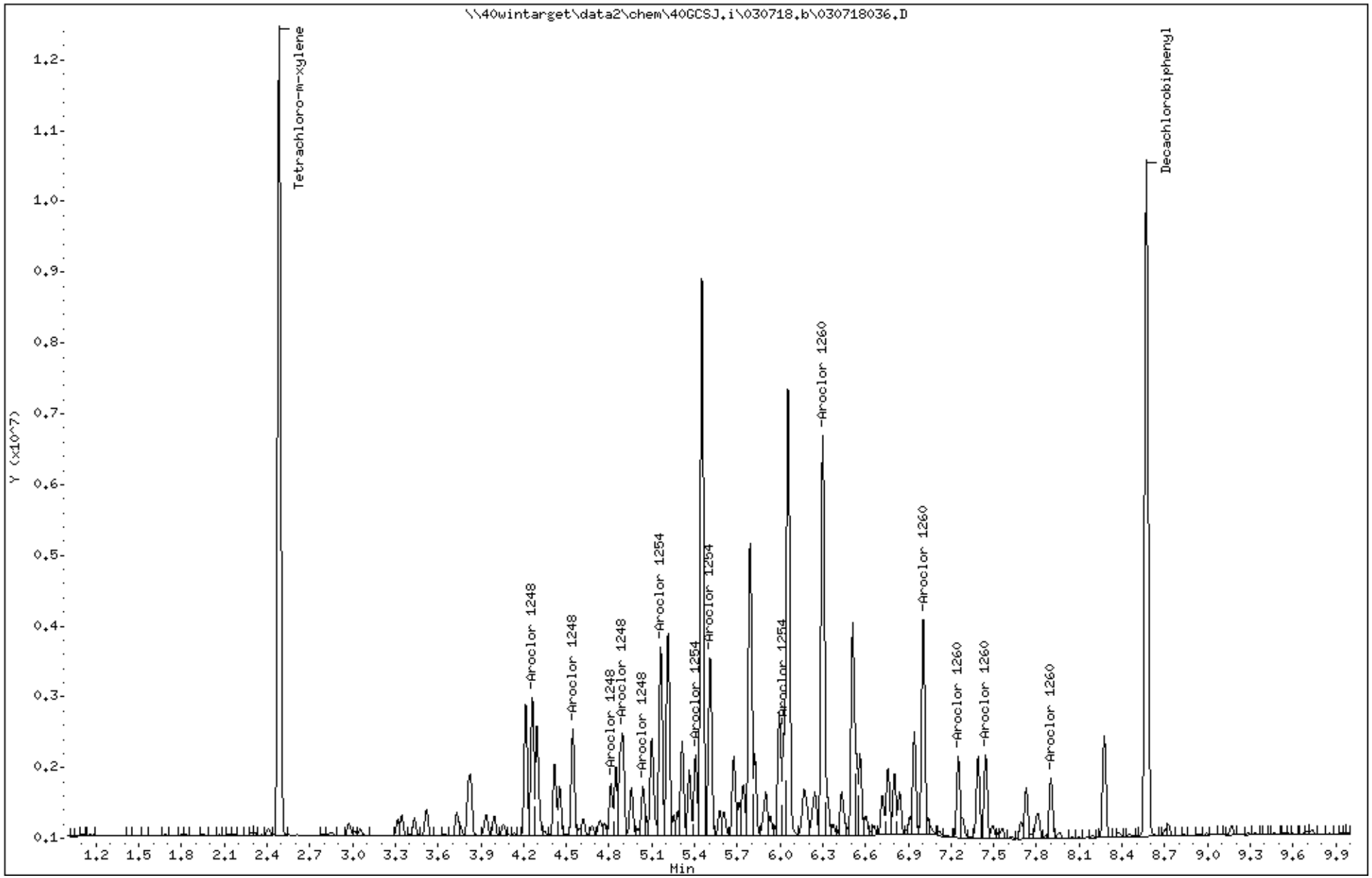
M - Compound response manually integrated.

Review Codes Legend

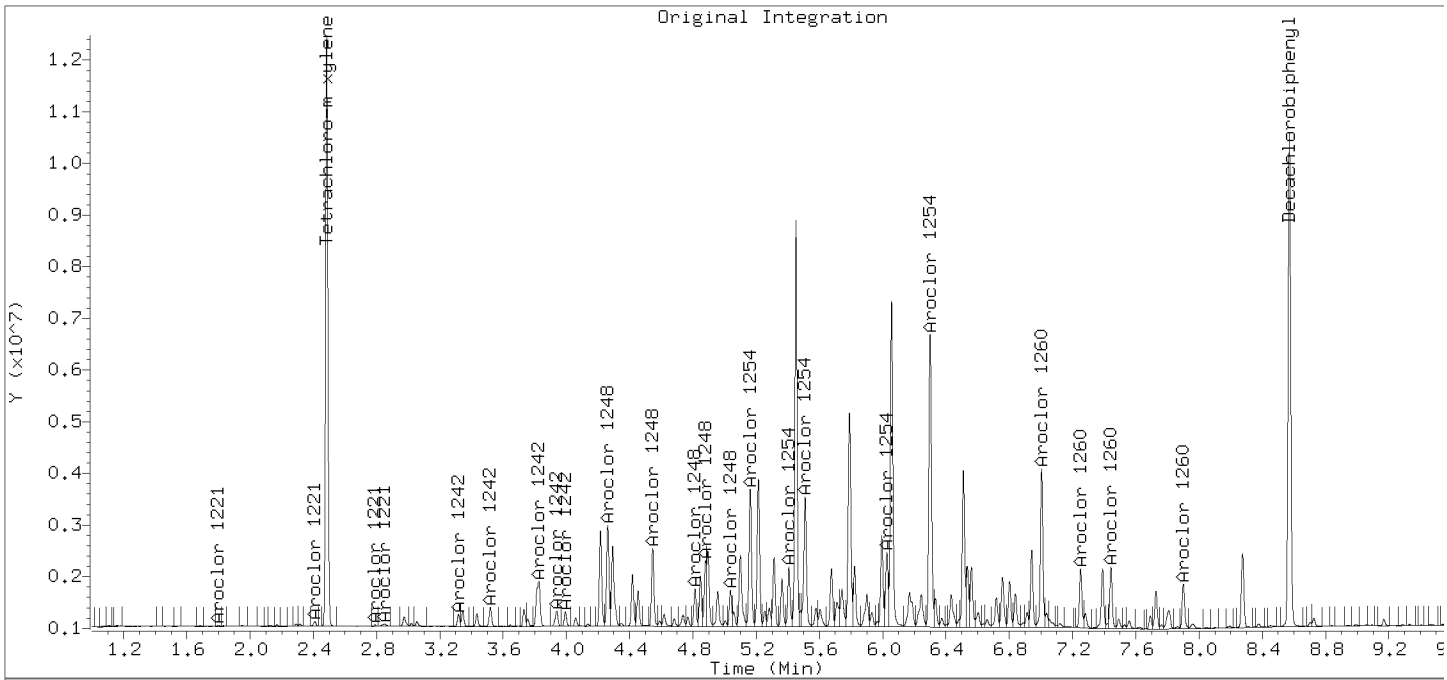
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

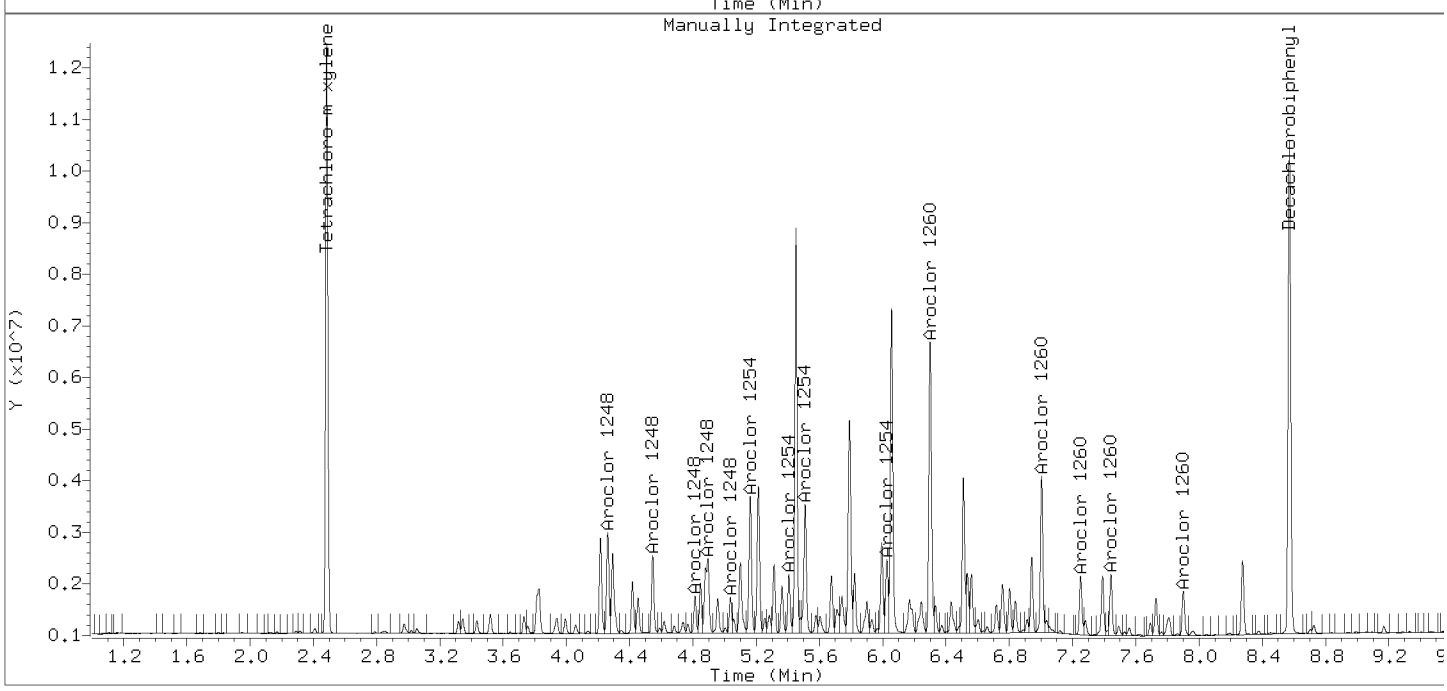
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718036.D
Date : 07-MAR-2018 17:44
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 17:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	236792	0	
Aroclor 1016	236792	0	
Aroclor 1016	236792	0	
Aroclor 1016	236792	0	
Aroclor 1016	236792	0	
Aroclor 1221	23164	0	
Aroclor 1221	23164	0	
Aroclor 1221	23164	0	
Aroclor 1221	23164	0	
Aroclor 1221	23164	0	
Aroclor 1232	86856	0	
Aroclor 1232	86856	0	
Aroclor 1232	86856	0	
Aroclor 1232	86856	0	

Aroclor 1232	86856	0	
Aroclor 1242	236792	0	
Aroclor 1242	236792	0	
Aroclor 1242	236792	0	
Aroclor 1242	236792	0	
Aroclor 1242	236792	0	
Aroclor 1248	2089866	2098799	BA
Aroclor 1248	2089866	2098799	BA
Aroclor 1248	2089866	2098799	BA
Aroclor 1248	2089866	2098799	BA
Aroclor 1248	2089866	2098799	BA
Aroclor 1254	3030468	3005270	BA
Aroclor 1254	3030468	3005270	BA
Aroclor 1254	3030468	3005270	BA
Aroclor 1254	3030468	3005270	BA
Aroclor 1254	3030468	3005270	BA
Aroclor 1260	6803364	6740249	BA
Aroclor 1260	6803364	6740249	BA
Aroclor 1260	6803364	6740249	BA
Aroclor 1260	6803364	6740249	BA
Aroclor 1260	6803364	6740249	BA
Tetrachloro-m-xylene	11407078	11407078	
Decachlorobiphenyl	11117415	11117415	

==========

SAMPLE NO.

CS1-170518-01-STB-14

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295007
Date Analyzed: 03/07/2018 18:00
Lab File ID: 030718.B\030718038.D
Initial wt/vol: 9.986 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	103	
11097-69-1	PCB-1254 (Aroclor 1254)	135	
11096-82-5	PCB-1260 (Aroclor 1260)	214	
1336-36-3	PCB, Total	452	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718038.D
Lab Smp Id: 40150295007 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295007,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	32527	30117	0.926	0.03		
1.538	10251	9784	0.954	0.01		
2.008	22548	18695	0.829	0.02		
2.130	16366	13378	0.817	0.01		
2.170	18683	19227	1.029	0.02		
2.207	10787	8712	0.808	0.01		
2.290	38852	36749	0.946	0.04		
2.317	32526	31348	0.964	0.03		
2.408	60508	48482	0.801	0.06		
2.484	9012148	8953002	0.993	10.10	$ 2 Tetrachloro-m-xylene	
2.787	30888	24793	0.803	0.03		
2.854	83019	53166	0.640	0.09		
2.920	21219	15804	0.745	0.02		
2.974	71495	51486	0.720	0.08		
3.018	51043	46335	0.908	0.05		
3.055	75781	68679	0.906	0.08		
3.317	110008	108101	0.983	0.12		
3.344	117026	113093	0.966	0.13		
3.400	13228	10309	0.779	0.01		
3.432	104564	90558	0.866	0.11		
3.518	151611	137752	0.909	0.16		
3.644	15825	12396	0.783	0.01		
3.731	95100	92900	0.977	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.755	56083	43236	0.771	0.06	
3.826	558407	322918	0.578	0.62	
3.936	155474	105204	0.677	0.17	
3.995	134752	120936	0.897	0.15	
4.056	79284	57206	0.722	0.08	
4.136	28740	26188	0.911	0.03	
4.178	22801	21652	0.950	0.02	
4.214	729808	682084	0.935	0.81	
4.262	713527	692902	0.971	0.79	6 Aroclor 1248
4.292	641556	507230	0.791	0.71	
4.348	37335	29523	0.791	0.04	
4.417	380163	349848	0.920	0.42	
4.452	259538	224137	0.864	0.29	
4.545	587736	549807	0.935	0.65	6 Aroclor 1248
4.590	50962	44659	0.876	0.05	
4.617	114552	82927	0.724	0.12	
4.681	77785	65083	0.837	0.08	
4.736	119725	98578	0.823	0.13	
4.767	119652	111560	0.932	0.13	
4.813	385333	357773	0.928	0.43	6 Aroclor 1248
4.848	478970	449758	0.939	0.53	
4.893	1482385	842273	0.568	1.66	6 Aroclor 1248
4.957	358292	304846	0.851	0.40	
4.979	71792	86160	1.200	0.08	
5.003	60390	59440	0.984	0.06	
5.036	354057	343973	0.972	0.39	6 Aroclor 1248
5.059	148386	146150	0.985	0.16	
5.100	924952	742544	0.803	1.03	
5.162	1964143	1768222	0.900	2.20	7 Aroclor 1254
5.213	1941880	1713338	0.882	2.17	
5.254	90871	86467	0.952	0.10	
5.283	220144	198781	0.903	0.24	
5.313	688057	655542	0.953	0.77	
5.363	603591	550068	0.911	0.67	
5.407	798382	736666	0.923	0.89	7 Aroclor 1254
5.450	4121195	3947456	0.958	4.62	
5.479	177415	209594	1.181	0.19	
5.510	2004848	1739794	0.868	2.24	7 Aroclor 1254
5.577	280753	239129	0.852	0.31	
5.604	243728	184149	0.756	0.27	
5.674	850642	807096	0.949	0.95	
5.710	492935	324809	0.659	0.55	
5.742	597816	456862	0.764	0.67	
5.790	3721818	3101855	0.833	4.17	
5.821	532726	436470	0.819	0.59	
5.900	486317	305646	0.628	0.54	
5.931	200664	176100	0.878	0.22	
5.962	41294	47676	1.155	0.04	
5.993	1247678	1161170	0.931	1.39	
6.025	1255979	1115432	0.888	1.40	7 Aroclor 1254
6.056	4920845	4372031	0.888	5.51	
6.122	52235	40200	0.770	0.05	
6.169	1094292	560425	0.512	1.22	
6.242	647804	318537	0.492	0.72	
6.299	4691866	3880413	0.827	5.26	8 Aroclor 1260
6.334	493957	468751	0.949	0.55	
6.372	120079	112732	0.939	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.433	671716	477676	0.711	0.75	
6.484	127290	121353	0.953	0.14	
6.509	2823652	2553319	0.904	3.16	
6.534	810951	832294	1.026	0.90	
6.561	1167062	1042979	0.894	1.30	
6.605	193432	168713	0.872	0.21	
6.659	147970	140737	0.951	0.16	
6.717	676179	630898	0.933	0.75	
6.758	775211	699573	0.902	0.86	
6.801	753025	714643	0.949	0.84	
6.838	947768	838586	0.885	1.06	
6.889	55091	59101	1.073	0.06	
6.912	294889	286158	0.970	0.33	
6.942	782067	760026	0.972	0.87	
7.004	3273572	2933268	0.896	3.67	8 Aroclor 1260
7.035	210356	211381	1.005	0.23	
7.055	166291	133542	0.803	0.18	
7.121	81016	71142	0.878	0.09	
7.251	1195823	1101594	0.921	1.34	8 Aroclor 1260
7.280	302686	266586	0.881	0.33	
7.336	14286	13699	0.959	0.01	
7.388	1813869	1560859	0.861	2.03	
7.442	1735964	1548050	0.892	1.94	8 Aroclor 1260
7.496	91372	54558	0.597	0.10	
7.529	49627	46506	0.937	0.05	
7.553	66678	50518	0.758	0.07	
7.621	24412	16165	0.662	0.02	
7.691	369729	330157	0.893	0.41	
7.727	1009625	944835	0.936	1.13	
7.762	109609	91000	0.830	0.12	
7.801	385867	253743	0.658	0.43	
7.862	36189	28436	0.786	0.04	
7.899	1141218	989579	0.867	1.27	8 Aroclor 1260
7.958	216716	123662	0.571	0.24	
8.043	18084	10625	0.588	0.02	
8.094	12613	10550	0.836	0.01	
8.194	51436	37538	0.730	0.05	
8.274	1972101	1752676	0.889	2.21	
8.377	235030	197118	0.839	0.26	
8.448	74064	37262	0.503	0.08	
8.507	22966	16536	0.720	0.02	
8.571	9784444	8591805	0.878	11.63	$ 12 Decachlorobiphenyl
8.684	11823	12634	1.069	0.01	
8.702	27990	29021	1.037	0.03	
8.726	72437	54358	0.750	0.08	
8.818	55565	39601	0.713	0.06	
8.944	22113	16710	0.756	0.02	
8.993	15736	11410	0.725	0.01	
9.169	108123	91845	0.849	0.12	
9.279	13082	9641	0.737	0.01	
9.327	17903	16640	0.929	0.02	
9.404	12272	9068	0.739	0.01	
9.464	15732	12320	0.783	0.01	
9.542	34715	18099	0.521	0.03	
9.602	18748	13350	0.712	0.02	
9.674	15242	13559	0.890	0.01	
9.698	45603	40555	0.889	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.735	42803	30673	0.717	0.04	
9.777	21078	11776	0.559	0.02	
9.855	22237	16492	0.742	0.02	
9.964	20454	15475	0.757	0.02	
	89197998	78391545		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718038.D
Lab Smp Id: 40150295007 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295007,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	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

Operator disabled compound identification.

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

2.484	2.484	0.000	9012147	0.07309		36		

---

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	713527	0.30454	150	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	587736	0.14161	71	0.00- 20.00	82.37	BA
4.812	4.812	0.000	385332	0.18981	95	0.00- 20.00	54.00	BA
4.893	4.879	0.014	1482384	0.29427	150	0.00- 20.00	207.75	BA
5.036	5.038	-0.002	354056	0.09866	49	0.00- 20.00	49.62	BA
Average of Peak Concentrations =					100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1964142	0.37518	190	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	798382	0.18562	93	0.00- 20.00	40.65	BA
5.509	5.510	-0.001	2004848	0.25815	130	0.00- 20.00	102.07	BA
6.025	6.027	-0.002	1255979	0.25792	130	0.00- 20.00	63.95	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	4691866	0.52942	260	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	3273571	0.32689	160	0.00- 20.00	69.77	BA
7.251	7.251	0.000	1195823	0.25018	120	0.00- 20.00	25.49	BA
7.442	7.443	-0.001	1735964	0.59551	300	0.00- 20.00	37.00	BA
7.899	7.901	-0.002	1141217	0.43249	220	0.00- 20.00	24.32	BA
Average of Peak Concentrations =					210			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9784444	0.08931	45			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718038.D

Date : 07-MAR-2018 18:00

Client ID: CS1-170518-01-STB-1

Instrument: 40GCSJ.i

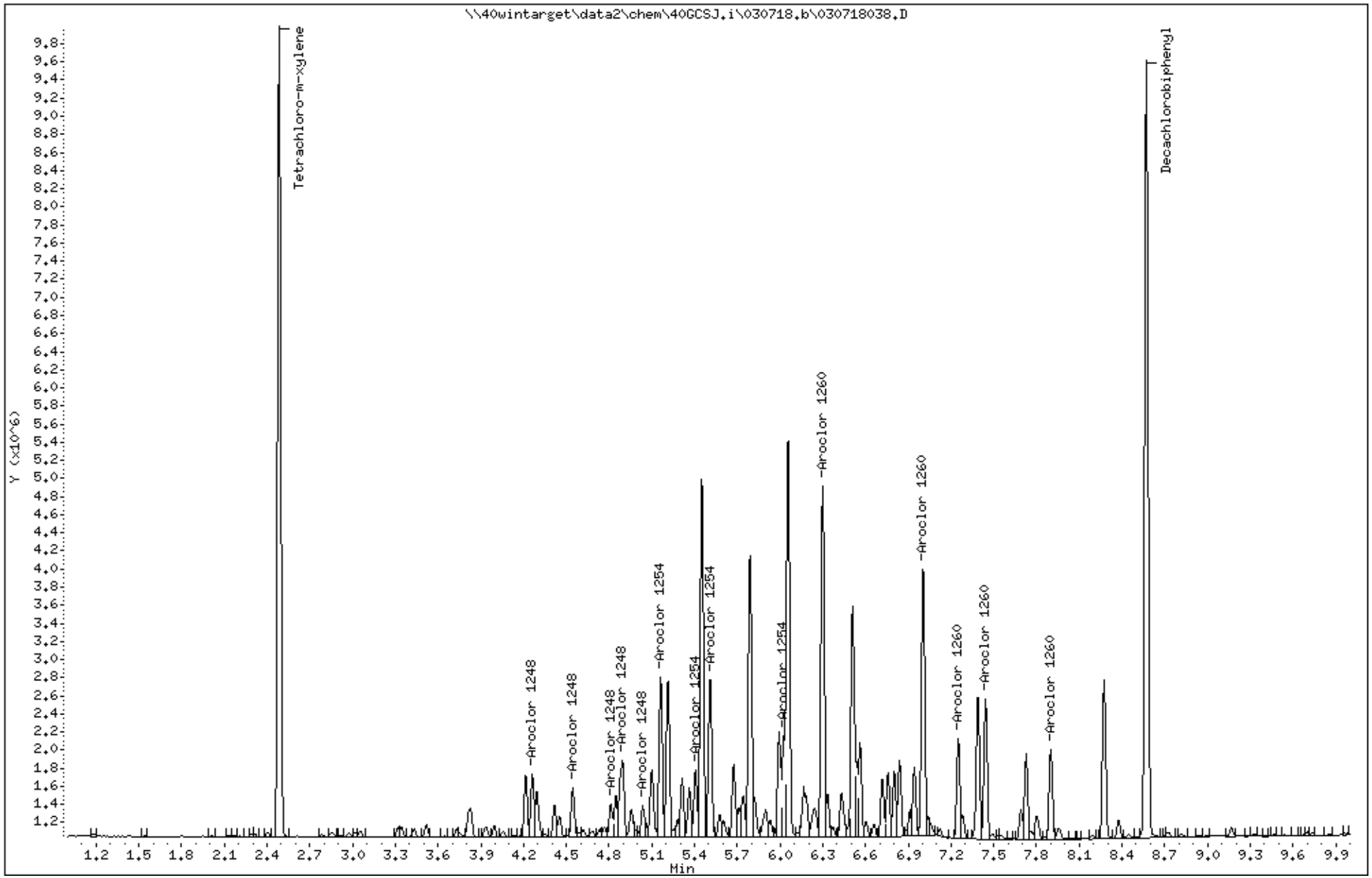
Sample Info: 40150295007,

Volume Injected (uL): 1.0

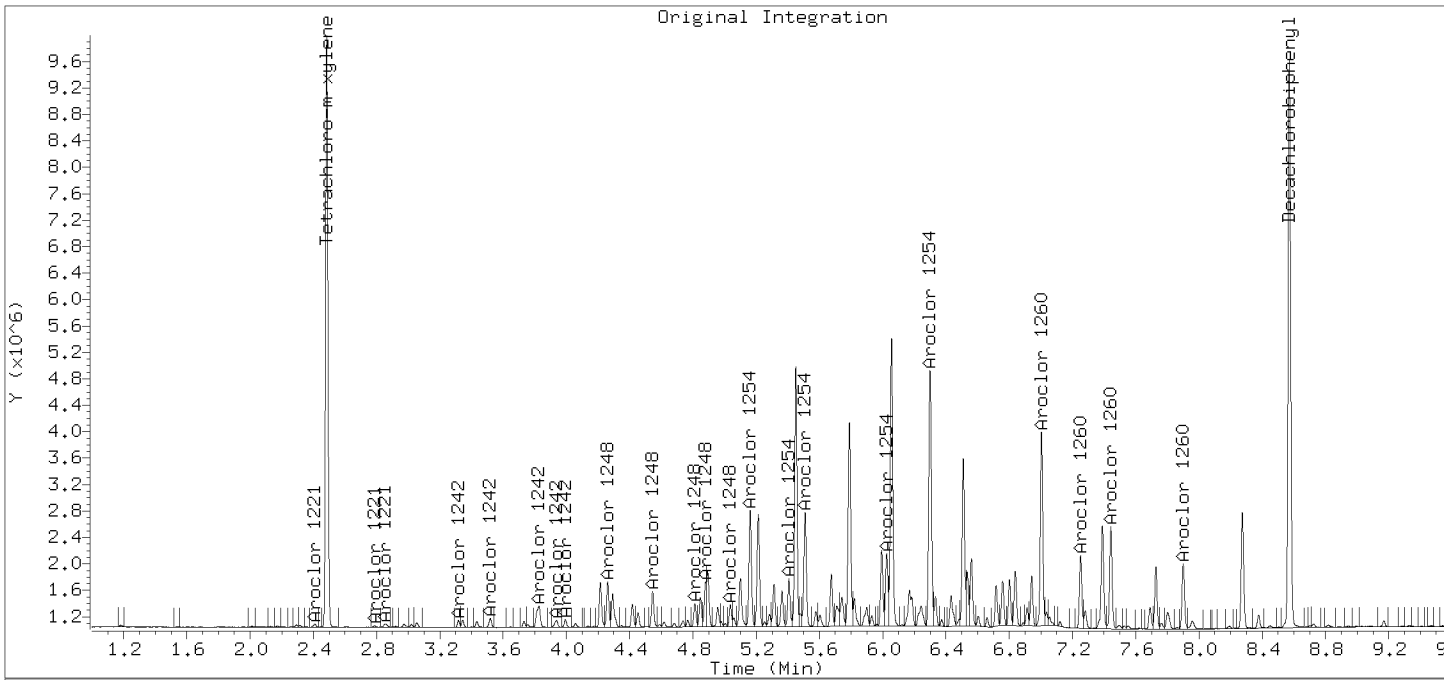
Operator: BLM

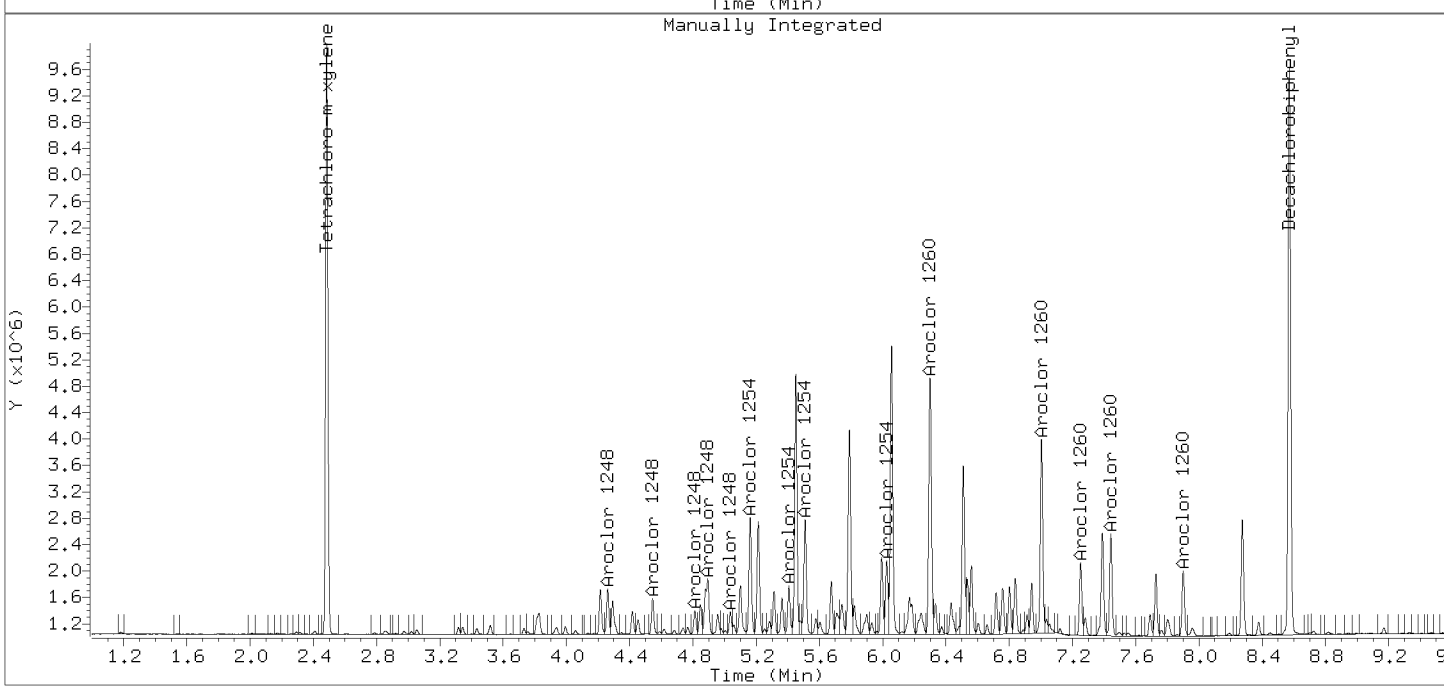
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718038.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 18:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	110007	0	
Aroclor 1016	110007	0	
Aroclor 1016	110007	0	
Aroclor 1016	110007	0	
Aroclor 1016	110007	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	83018	0	
Aroclor 1232	83018	0	
Aroclor 1232	83018	0	
Aroclor 1232	83018	0	

Aroclor 1232	83018	0	
Aroclor 1242	110007	0	
Aroclor 1242	110007	0	
Aroclor 1242	110007	0	
Aroclor 1242	110007	0	
Aroclor 1242	110007	0	
Aroclor 1248	705604	713527	BA
Aroclor 1248	705604	713527	BA
Aroclor 1248	705604	713527	BA
Aroclor 1248	705604	713527	BA
Aroclor 1248	705604	713527	BA
Aroclor 1254	1929753	1964142	BA
Aroclor 1254	1929753	1964142	BA
Aroclor 1254	1929753	1964142	BA
Aroclor 1254	1929753	1964142	BA
Aroclor 1254	1929753	1964142	BA
Aroclor 1260	4626475	4691866	BA
Aroclor 1260	4626475	4691866	BA
Aroclor 1260	4626475	4691866	BA
Aroclor 1260	4626475	4691866	BA
Aroclor 1260	4626475	4691866	BA
Tetrachloro-m-xylene	9012147	9012147	
Decachlorobiphenyl	9784444	9784444	

==========

SAMPLE NO.

CS1-170518-01-STB-13

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295008
Date Analyzed: 03/07/2018 18:16
Lab File ID: 030718.B\030718040.D
Initial wt/vol: 9.9688 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)	127	
11097-69-1	PCB-1254 (Aroclor 1254)	131	
11096-82-5	PCB-1260 (Aroclor 1260)	195	
1336-36-3	PCB, Total	453	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718040.D
Lab Smp Id: 40150295008 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295008,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40
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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.071	9834	8829	0.898	0.01		
1.158	12272	12714	1.036	0.01		
1.184	42317	29803	0.704	0.04		
1.425	10023	8519	0.850	0.01		
1.536	10685	8207	0.768	0.01		
1.681	16413	9696	0.591	0.01		
1.800	11951	11721	0.981	0.01		
1.950	19837	16209	0.817	0.02		
2.009	18774	15414	0.821	0.01		
2.128	21392	14204	0.664	0.02		
2.172	24955	22394	0.897	0.02		
2.211	12238	9943	0.812	0.01		
2.293	40670	38762	0.953	0.04		
2.316	31426	33139	1.055	0.03		
2.347	18811	9624	0.512	0.01		
2.410	143525	113841	0.793	0.14		
2.485	10676109	10555040	0.989	11.58	$ 2 Tetrachloro-m-xylene	
2.602	10036	6419	0.640	0.01		
2.787	32693	29921	0.915	0.03		
2.851	93119	55803	0.599	0.09		
2.974	160477	101599	0.633	0.16		
3.020	84559	81605	0.965	0.08		
3.054	114125	108327	0.949	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.317	159147	163337	1.026	0.16	
3.344	198941	190433	0.957	0.20	
3.434	141287	147238	1.042	0.14	
3.518	244844	210643	0.860	0.25	
3.644	24665	18960	0.769	0.02	
3.693	14256	12450	0.873	0.01	
3.732	162606	164563	1.012	0.16	
3.755	84674	79882	0.943	0.08	
3.816	779438	469647	0.603	0.79	
3.938	205714	159233	0.774	0.21	
3.993	165886	155180	0.935	0.17	
4.058	102304	80690	0.789	0.10	
4.135	40930	34762	0.849	0.04	
4.215	860363	814776	0.947	0.88	
4.261	1047050	1014747	0.969	1.07	6 Aroclor 1248
4.292	944486	780113	0.826	0.96	
4.347	57903	50721	0.876	0.05	
4.417	492115	458914	0.933	0.50	
4.453	338865	313148	0.924	0.34	
4.545	794827	739105	0.930	0.81	6 Aroclor 1248
4.590	50452	50894	1.009	0.05	
4.619	151764	131949	0.869	0.15	
4.655	22407	23145	1.033	0.02	
4.681	81898	76246	0.931	0.08	
4.736	169732	141032	0.831	0.17	
4.768	116177	112891	0.972	0.11	
4.812	424679	414023	0.975	0.43	6 Aroclor 1248
4.847	592935	568201	0.958	0.60	
4.893	1551808	846732	0.546	1.59	6 Aroclor 1248
4.957	447290	373228	0.834	0.45	
5.004	71250	68396	0.960	0.07	
5.036	402512	389529	0.968	0.41	6 Aroclor 1248
5.059	168400	172220	1.023	0.17	
5.099	1129591	867714	0.768	1.15	
5.162	2043448	1794856	0.878	2.09	7 Aroclor 1254
5.213	2337705	2045645	0.875	2.39	
5.253	173280	167345	0.966	0.17	
5.283	280016	247920	0.885	0.28	
5.313	1254826	1199595	0.956	1.28	
5.363	602121	560342	0.931	0.61	
5.407	753683	702630	0.932	0.77	7 Aroclor 1254
5.452	5816625	5892399	1.013	5.96	
5.478	172214	218430	1.268	0.17	
5.510	1871086	1528273	0.817	1.91	7 Aroclor 1254
5.576	301241	258147	0.857	0.30	
5.604	266934	208779	0.782	0.27	
5.674	951516	888808	0.934	0.97	
5.711	493330	329089	0.667	0.50	
5.742	697544	520949	0.747	0.71	
5.789	3889800	3248307	0.835	3.98	
5.822	834968	724799	0.868	0.85	
5.899	750064	548567	0.731	0.76	
5.931	226327	204293	0.903	0.23	
5.964	59208	63379	1.070	0.06	
5.993	1464505	1383664	0.945	1.50	
6.026	1169864	1088927	0.931	1.19	7 Aroclor 1254
6.056	6079491	5506778	0.906	6.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.168	710694	561905	0.791	0.72	
6.184	370535	433047	1.169	0.37	
6.244	733811	415601	0.566	0.75	
6.298	5620449	4763365	0.848	5.75	8 Aroclor 1260
6.334	489639	461251	0.942	0.50	
6.373	109948	103309	0.940	0.11	
6.407	23755	29326	1.234	0.02	
6.432	655550	488517	0.745	0.67	
6.486	97864	108256	1.106	0.10	
6.509	2750128	2486879	0.904	2.81	
6.534	971444	948693	0.977	0.99	
6.561	1144420	1019524	0.891	1.17	
6.604	238368	197976	0.831	0.24	
6.635	43453	50058	1.152	0.04	
6.659	129201	127492	0.987	0.13	
6.717	526849	489026	0.928	0.53	
6.758	883243	765846	0.867	0.90	
6.801	839643	785594	0.936	0.86	
6.839	487436	417055	0.856	0.49	
6.888	32939	40831	1.240	0.03	
6.912	175952	180467	1.026	0.18	
6.942	1679843	1618757	0.964	1.72	
7.004	3212868	2916893	0.908	3.29	8 Aroclor 1260
7.035	300966	222118	0.738	0.30	
7.074	59751	54439	0.911	0.06	
7.122	37799	38594	1.021	0.03	
7.250	1281312	1144744	0.893	1.31	8 Aroclor 1260
7.281	327908	283913	0.866	0.33	
7.340	19143	18475	0.965	0.01	
7.389	1026021	891877	0.869	1.05	
7.420	60884	96745	1.589	0.06	
7.443	1111304	964611	0.868	1.13	8 Aroclor 1260
7.493	167377	124918	0.746	0.17	
7.527	59354	56874	0.958	0.06	
7.558	138633	102413	0.739	0.14	
7.621	55404	33073	0.597	0.05	
7.690	289371	261729	0.904	0.29	
7.728	444068	385075	0.867	0.45	
7.764	72833	62395	0.857	0.07	
7.812	508816	347375	0.683	0.52	
7.862	59093	47781	0.809	0.06	
7.900	893083	791443	0.886	0.91	8 Aroclor 1260
7.961	148780	83066	0.558	0.15	
8.049	33019	28096	0.851	0.03	
8.101	13916	12821	0.921	0.01	
8.181	34757	20596	0.593	0.03	
8.274	915279	845614	0.924	0.93	
8.377	75371	60398	0.801	0.07	
8.450	25605	20351	0.795	0.02	
8.572	10403307	9454749	0.909	10.66	$ 12 Decachlorobiphenyl
8.702	68953	67327	0.976	0.07	
8.726	188975	163961	0.868	0.19	
8.838	21271	18128	0.852	0.02	
8.944	21534	15059	0.699	0.02	
8.994	20489	16805	0.820	0.02	
9.057	41192	33637	0.817	0.04	
9.097	9974	9667	0.969	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.169	89117	78449	0.880	0.09	
9.288	19847	15678	0.790	0.02	
9.329	25768	14757	0.573	0.02	
9.405	10291	8486	0.825	0.01	
9.467	34343	22357	0.651	0.03	
9.537	15432	12549	0.813	0.01	
9.567	9474	9707	1.025	0.00	
9.667	10076	9510	0.944	0.01	
9.700	35367	26995	0.763	0.03	
9.735	69445	57803	0.832	0.07	
9.776	10616	9905	0.933	0.01	
9.962	38169	19660	0.515	0.03	
	97578750	87402787		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718040.D
Lab Smp Id: 40150295008 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295008,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40
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	9.969	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	10676108	0.08659	43			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1047050	0.44689	220	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	794826	0.19151	96	0.00- 20.00	75.91	BA
4.812	4.812	0.000	424679	0.20919	100	0.00- 20.00	40.56	BA
4.892	4.879	0.013	1551808	0.30805	150	0.00- 20.00	148.21	BA
5.036	5.038	-0.002	402512	0.11217	56	0.00- 20.00	38.44	BA
Average of Peak Concentrations =					130			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2043447	0.39032	200	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	753682	0.17523	88	0.00- 20.00	36.88	BA
5.509	5.510	-0.001	1871085	0.24093	120	0.00- 20.00	91.57	BA
6.025	6.027	-0.002	1169864	0.24023	120	0.00- 20.00	57.25	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			
6.298	6.300	-0.002	5620448	0.63419	320	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	3212868	0.32083	160	0.00- 20.00	57.16	CO
7.250	7.251	-0.001	1281312	0.26807	130	0.00- 20.00	22.80	CO
7.442	7.443	-0.001	1111304	0.38122	190	0.00- 20.00	19.77	CO
7.899	7.901	-0.002	893082	0.33845	170	0.00- 20.00	15.89	CO
Average of Peak Concentrations =					190			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10403306	0.09496	48			

QC Flag Legend

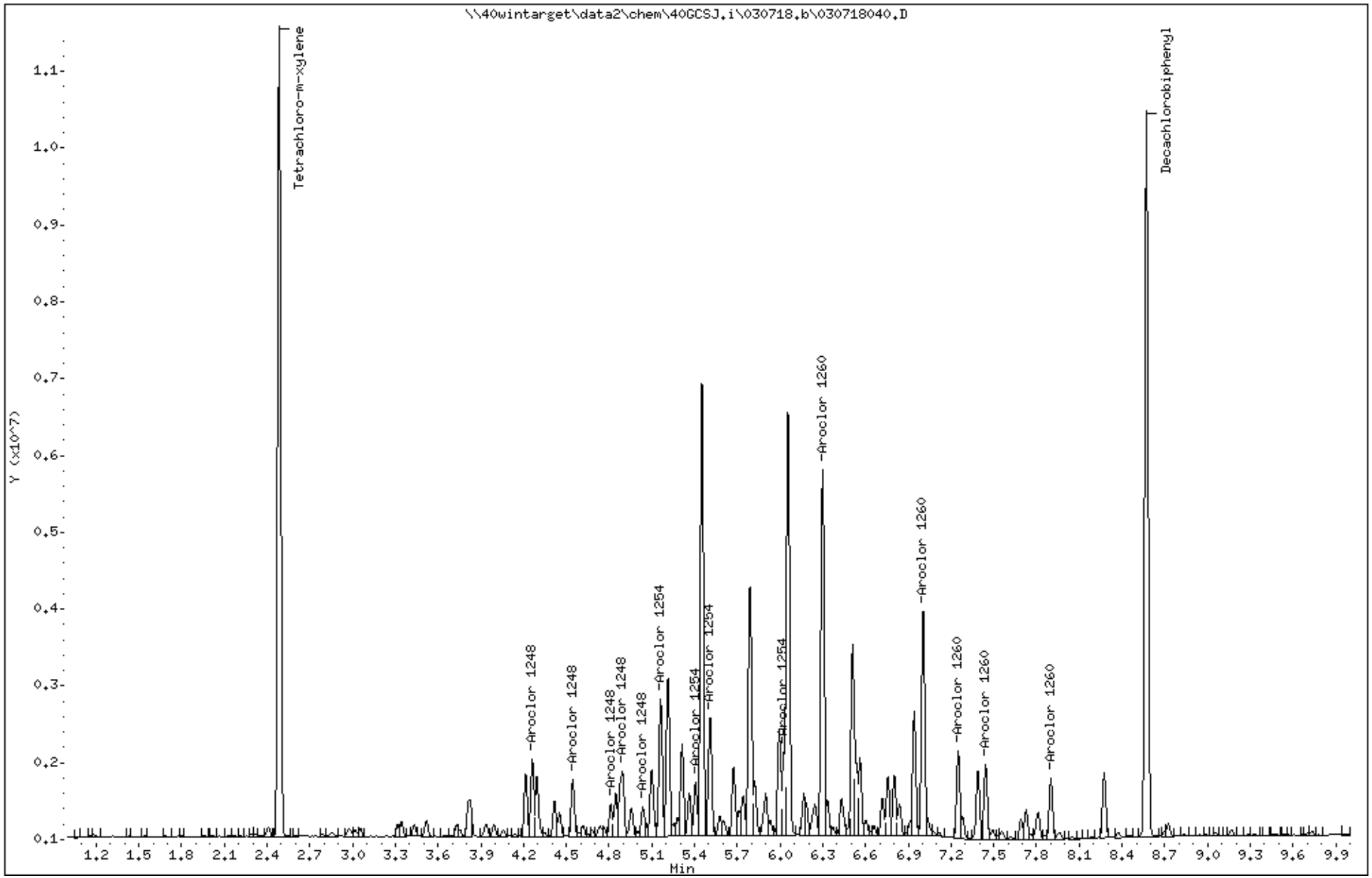
M - Compound response manually integrated.

Review Codes Legend

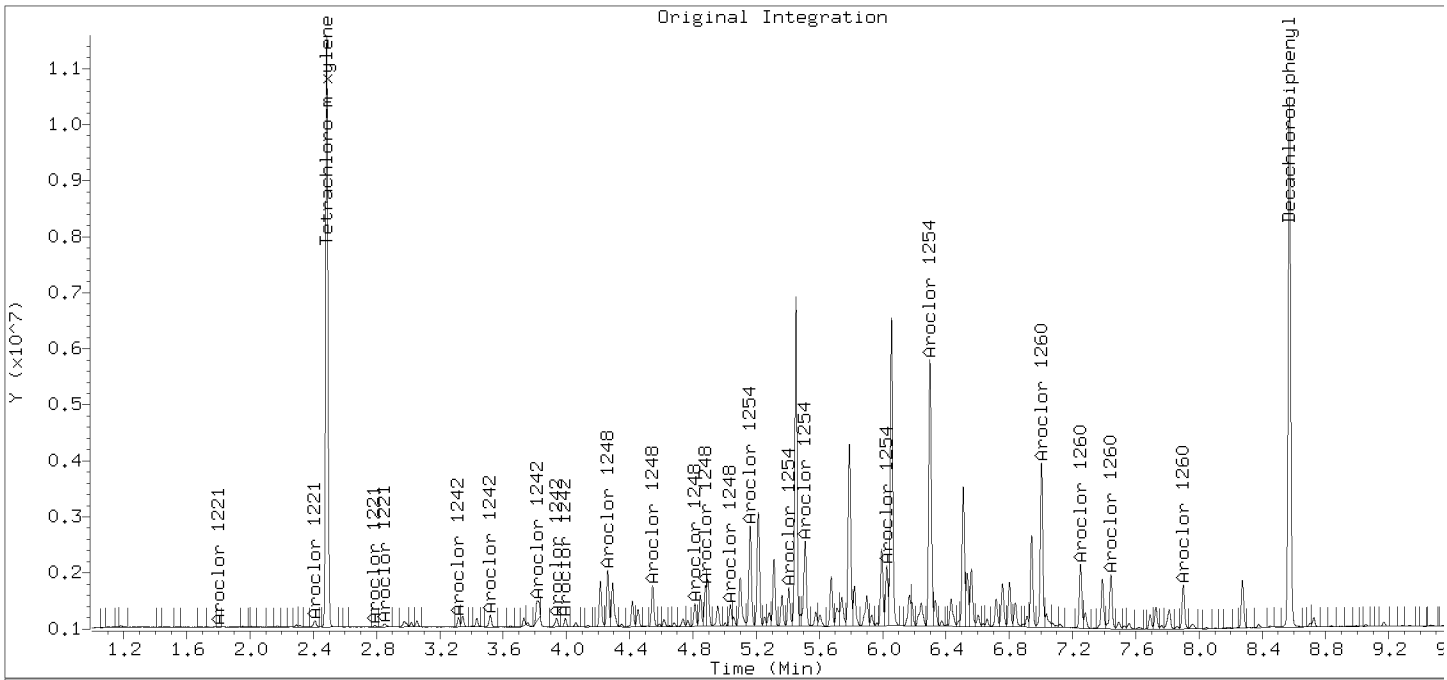
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

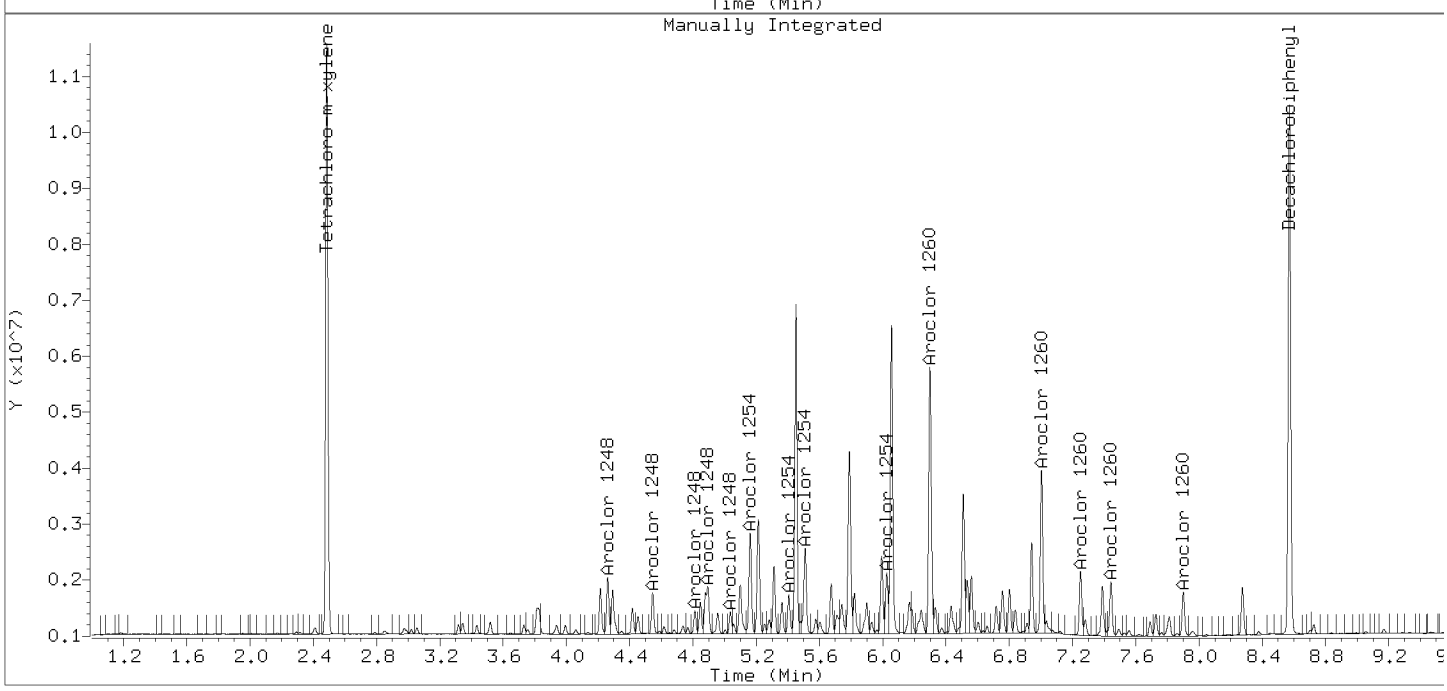
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718040.D
Date : 07-MAR-2018 18:16
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718040.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 18:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	159147	0	
Aroclor 1016	159147	0	
Aroclor 1016	159147	0	
Aroclor 1016	159147	0	
Aroclor 1016	159147	0	
Aroclor 1221	11950	0	
Aroclor 1221	11950	0	
Aroclor 1221	11950	0	
Aroclor 1221	11950	0	
Aroclor 1221	11950	0	
Aroclor 1232	93118	0	
Aroclor 1232	93118	0	
Aroclor 1232	93118	0	
Aroclor 1232	93118	0	

Aroclor 1232	93118	0	
Aroclor 1242	159147	0	
Aroclor 1242	159147	0	
Aroclor 1242	159147	0	
Aroclor 1242	159147	0	
Aroclor 1242	159147	0	
Aroclor 1248	1033890	1047050	BA
Aroclor 1248	1033890	1047050	BA
Aroclor 1248	1033890	1047050	BA
Aroclor 1248	1033890	1047050	BA
Aroclor 1248	1033890	1047050	BA
Aroclor 1254	2007355	2043447	BA
Aroclor 1254	2007355	2043447	BA
Aroclor 1254	2007355	2043447	BA
Aroclor 1254	2007355	2043447	BA
Aroclor 1254	2007355	2043447	BA
Aroclor 1260	5604276	5620448	CO
Aroclor 1260	5604276	5620448	CO
Aroclor 1260	5604276	5620448	CO
Aroclor 1260	5604276	5620448	CO
Aroclor 1260	5604276	5620448	CO
Tetrachloro-m-xylene	10676108	10676108	
Decachlorobiphenyl	10403306	10403306	

==========

SAMPLE NO.

CS1-170518-01-STB-12

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295009
Date Analyzed: 03/07/2018 18:32
Lab File ID: 030718.B\030718042.D
Initial wt/vol: 10.0318 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	35.3	J
11097-69-1	PCB-1254 (Aroclor 1254)	45.2	J
11096-82-5	PCB-1260 (Aroclor 1260)	92.0	
1336-36-3	PCB, Total	173	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718042.D
Lab Smp Id: 40150295009 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295009,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.012	26770	16231	0.606	0.04		
1.073	26798	20972	0.783	0.04		
1.108	41279	36991	0.896	0.07		
1.159	25794	24642	0.955	0.04		
1.183	50404	36459	0.723	0.08		
1.316	16469	11607	0.705	0.02		
1.428	12482	13100	1.050	0.02		
1.538	21162	11952	0.565	0.03		
1.585	27219	24789	0.911	0.04		
1.771	15997	14560	0.910	0.02		
1.798	14442	14073	0.974	0.02		
1.832	12196	10370	0.850	0.02		
1.951	21669	18620	0.859	0.03		
2.062	22743	18894	0.831	0.04		
2.127	32780	24523	0.748	0.05		
2.171	28734	32156	1.119	0.05		
2.209	14431	13050	0.904	0.02		
2.259	11579	11864	1.025	0.02		
2.294	31302	32685	1.044	0.05		
2.315	47287	50350	1.065	0.08		
2.410	104516	93429	0.894	0.18		
2.485	12014910	11976109	0.997	21.97	$ 2 Tetrachloro-m-xylene	
2.547	11378	8966	0.788	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.643	14349	15136	1.055	0.02	
2.789	28357	24639	0.869	0.04	
2.834	21933	24245	1.105	0.03	
2.855	49317	34292	0.695	0.08	
2.973	241038	170661	0.708	0.42	
3.021	53510	50455	0.943	0.09	
3.056	65180	54216	0.832	0.11	
3.163	27389	15153	0.553	0.04	
3.248	19196	18396	0.958	0.03	
3.318	56459	52128	0.923	0.09	5 Aroclor 1016
3.344	54940	49605	0.903	0.09	
3.400	10385	10149	0.977	0.01	
3.433	47664	47561	0.998	0.08	
3.519	71559	63189	0.883	0.12	5 Aroclor 1016
3.664	10212	11552	1.131	0.01	
3.731	42910	42844	0.998	0.07	
3.757	20504	21172	1.033	0.03	
3.824	245363	128326	0.523	0.43	5 Aroclor 1016
3.937	83307	54247	0.651	0.14	5 Aroclor 1016
3.993	54596	46197	0.846	0.09	5 Aroclor 1016
4.058	44162	27681	0.627	0.07	
4.137	26914	18024	0.670	0.04	
4.215	264526	244943	0.926	0.46	
4.261	249262	233088	0.935	0.43	6 Aroclor 1248
4.292	183683	140342	0.764	0.32	
4.351	34523	25988	0.753	0.06	
4.417	147889	135502	0.916	0.26	
4.453	88482	76643	0.866	0.15	
4.501	29823	19092	0.640	0.05	
4.545	199690	177222	0.887	0.35	6 Aroclor 1248
4.588	14149	16184	1.144	0.02	
4.617	37665	31471	0.836	0.06	
4.683	22766	20474	0.899	0.04	
4.738	64968	54088	0.833	0.11	
4.768	46920	44095	0.940	0.08	
4.812	136275	117201	0.860	0.24	6 Aroclor 1248
4.847	217449	197990	0.911	0.38	
4.894	505049	286295	0.567	0.88	6 Aroclor 1248
4.935	18036	22153	1.228	0.03	
4.956	124064	107171	0.864	0.21	
5.004	35381	33043	0.934	0.06	
5.036	116532	121865	1.046	0.20	6 Aroclor 1248
5.060	118602	98369	0.829	0.20	
5.098	425626	308117	0.724	0.74	
5.162	706189	632673	0.896	1.24	7 Aroclor 1254
5.214	809191	717105	0.886	1.42	
5.254	68489	66244	0.967	0.12	
5.281	117078	93307	0.797	0.20	
5.313	507764	497137	0.979	0.89	
5.364	227029	186336	0.821	0.39	
5.406	239736	214963	0.897	0.42	7 Aroclor 1254
5.451	2480868	2546181	1.026	4.37	
5.509	651186	538227	0.827	1.14	7 Aroclor 1254
5.578	139315	112988	0.811	0.24	
5.603	156010	110772	0.710	0.27	
5.675	320907	285053	0.888	0.56	
5.709	246023	188083	0.764	0.43	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.741	275413	199561	0.725	0.48	
5.789	1455374	1218457	0.837	2.56	
5.822	444532	344175	0.774	0.78	
5.900	298523	211702	0.709	0.52	
5.932	110655	92844	0.839	0.19	
5.964	46165	47361	1.026	0.08	
5.994	650708	617016	0.948	1.14	
6.026	430545	383790	0.891	0.75	7 Aroclor 1254
6.056	2446665	2132420	0.872	4.31	
6.170	202464	163167	0.806	0.35	
6.184	204847	187771	0.917	0.36	
6.244	373417	223144	0.598	0.65	
6.299	2060935	1693367	0.822	3.63	8 Aroclor 1260
6.332	155960	150604	0.966	0.27	
6.373	53748	45183	0.841	0.09	
6.432	371505	272300	0.733	0.65	
6.485	55086	62651	1.137	0.09	
6.510	1437794	1279763	0.890	2.53	
6.535	309605	327435	1.058	0.54	
6.560	482852	424515	0.879	0.85	
6.593	190465	114263	0.600	0.33	
6.660	53913	39684	0.736	0.09	
6.698	39571	41207	1.041	0.06	
6.718	245728	217169	0.884	0.43	
6.758	450632	380580	0.845	0.79	
6.800	306751	273943	0.893	0.54	
6.837	371217	313163	0.844	0.65	
6.889	26261	28474	1.084	0.04	
6.913	165963	160403	0.966	0.29	
6.941	475601	457674	0.962	0.83	
7.006	1274641	1138325	0.893	2.24	8 Aroclor 1260
7.034	154643	107788	0.697	0.27	
7.078	36884	31896	0.865	0.06	
7.120	40778	30174	0.740	0.07	
7.167	24231	11134	0.459	0.04	
7.250	479133	411136	0.858	0.84	8 Aroclor 1260
7.281	162064	116364	0.718	0.28	
7.340	37592	23285	0.619	0.06	
7.389	617078	606675	0.983	1.08	
7.418	70107	95840	1.367	0.12	
7.442	693883	599728	0.864	1.22	8 Aroclor 1260
7.491	134783	104815	0.778	0.23	
7.528	60199	52406	0.871	0.10	
7.560	155103	110273	0.711	0.27	
7.626	39872	32311	0.810	0.07	
7.667	13391	17080	1.276	0.02	
7.693	94538	94125	0.996	0.16	
7.726	540847	487312	0.901	0.95	
7.763	50080	44535	0.889	0.08	
7.802	346488	202397	0.584	0.61	
7.862	63512	40341	0.635	0.11	
7.900	593329	495451	0.835	1.04	8 Aroclor 1260
7.959	113503	53971	0.476	0.19	
8.048	36917	23630	0.640	0.06	
8.102	18232	16158	0.886	0.03	
8.149	14042	9240	0.658	0.02	
8.196	40213	27413	0.682	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.274	1216316	1068671	0.879	2.14	
8.378	55564	47651	0.858	0.09	
8.449	36030	25357	0.704	0.06	
8.572	10989550	9758432	0.888	19.36	$ 12 Decachlorobiphenyl
8.674	11241	11973	1.065	0.01	
8.705	53677	59752	1.113	0.09	
8.725	157826	129031	0.818	0.27	
8.837	15626	15381	0.984	0.02	
8.920	13672	11982	0.876	0.02	
8.946	24052	17191	0.715	0.04	
8.993	28451	22431	0.788	0.05	
9.051	16029	16221	1.012	0.02	
9.168	65489	61438	0.938	0.11	
9.288	15746	13163	0.836	0.02	
9.330	21551	18043	0.837	0.03	
9.403	18433	15578	0.845	0.03	
9.468	29957	23013	0.768	0.05	
9.543	35070	20138	0.574	0.06	
9.676	10540	10194	0.967	0.01	
9.697	31922	29946	0.938	0.05	
9.735	66777	51121	0.766	0.11	
9.856	12911	8355	0.647	0.02	
9.902	10238	10388	1.015	0.01	
9.939	11686	10258	0.878	0.02	
9.964	21441	16628	0.776	0.03	
9.982	15869	17820	1.123	0.02	
	56757370	50774410		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718042.D
Lab Smp Id: 40150295009 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295009,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	12014910	0.09745	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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	249261	0.10639	53	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	199689	0.04811	24	0.00- 20.00	80.11	BA
4.812	4.812	0.000	136275	0.06713	33	0.00- 20.00	54.67	BA
4.893	4.879	0.014	505048	0.10026	50	0.00- 20.00	202.62	BA
5.036	5.038	-0.002	116531	0.03247	16	0.00- 20.00	46.75	BA
Average of Peak Concentrations =					35			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	706189	0.13489	67	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	239735	0.05574	28	0.00- 20.00	33.95	BA
5.508	5.510	-0.002	651186	0.08385	42	0.00- 20.00	92.21	BA
6.026	6.027	-0.001	430544	0.08841	44	0.00- 20.00	60.97	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					45			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2060934	0.23255	120	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	1274640	0.12728	63	0.00- 20.00	61.85	BA
7.250	7.251	-0.001	479133	0.10024	50	0.00- 20.00	23.25	BA
7.441	7.443	-0.002	693883	0.23803	120	0.00- 20.00	33.67	BA
7.900	7.901	-0.001	593329	0.22485	110	0.00- 20.00	28.79	BA
Average of Peak Concentrations =					92			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10989549	0.10031	50			

QC Flag Legend

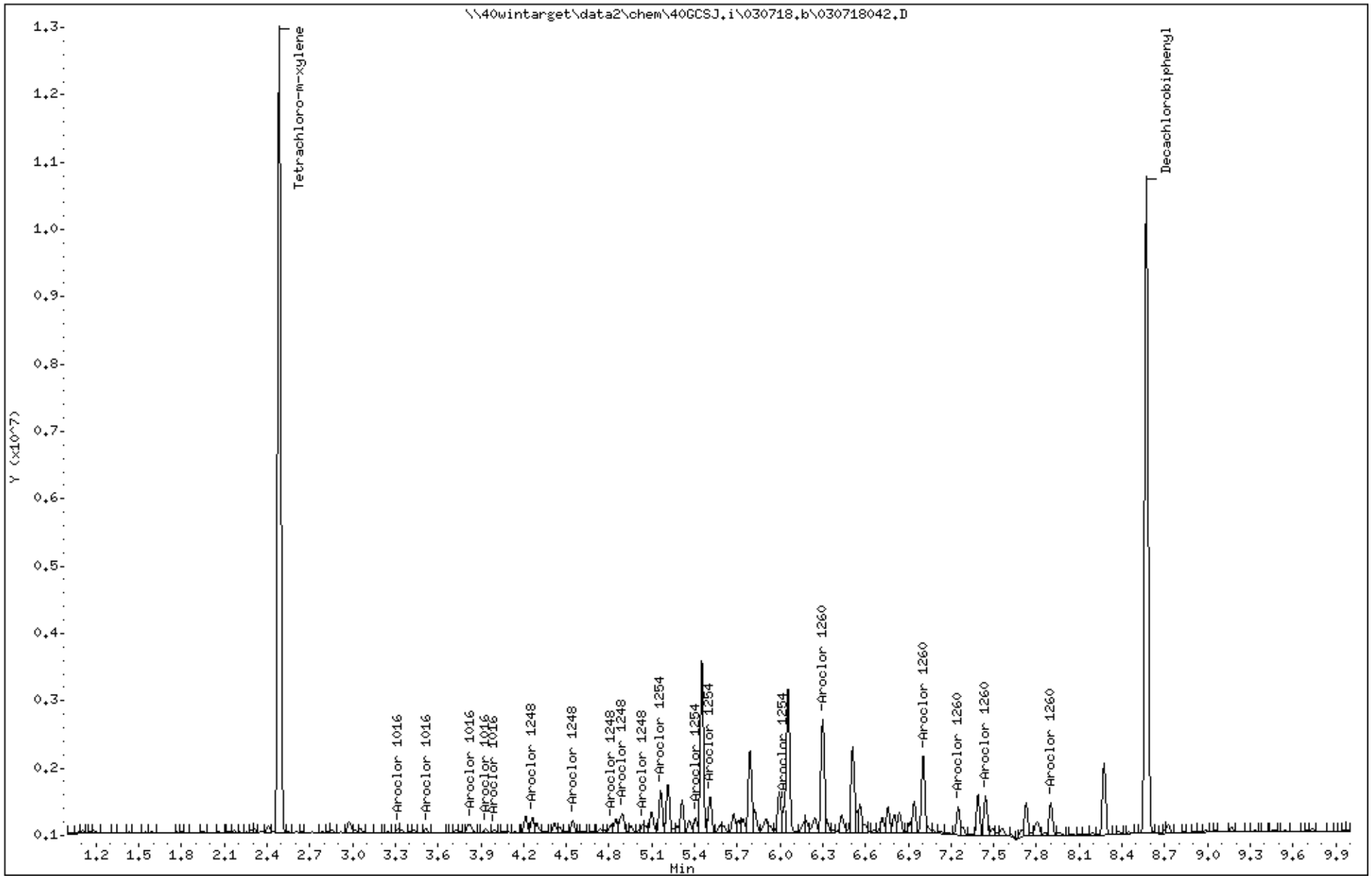
M - Compound response manually integrated.

Review Codes Legend

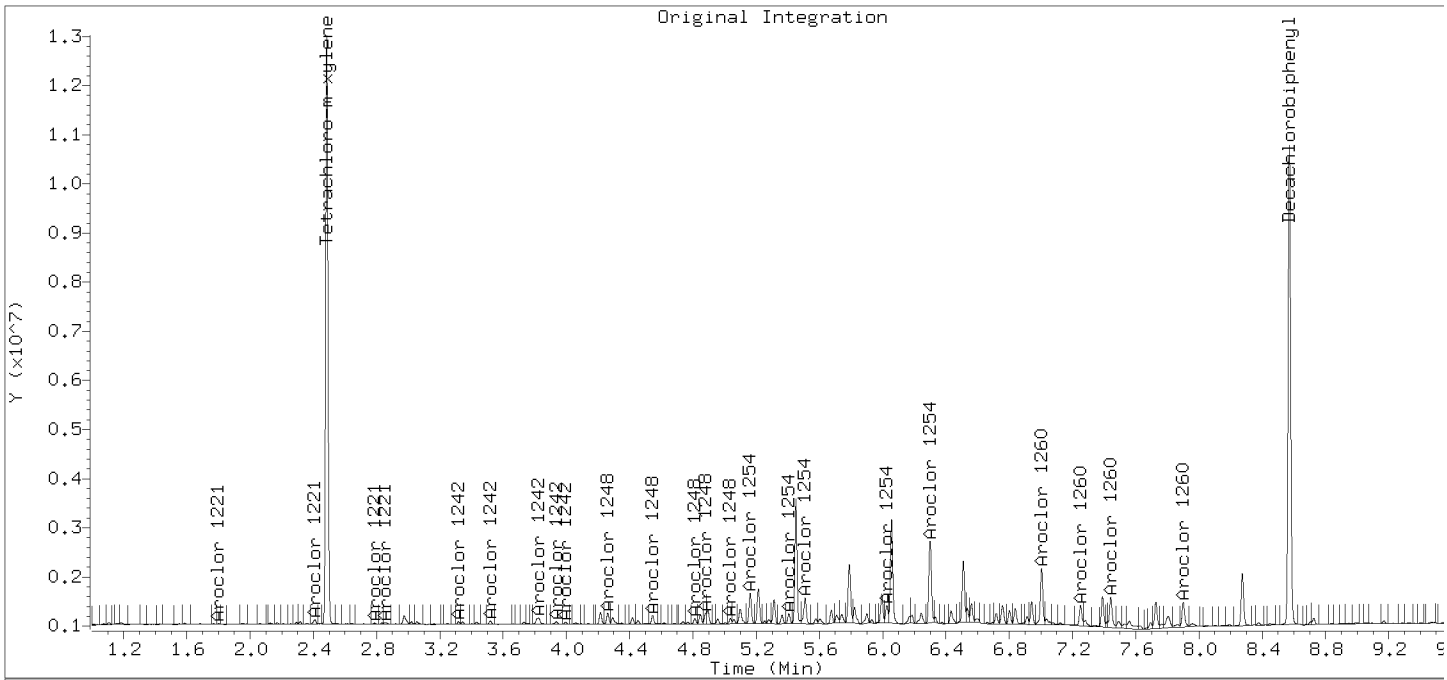
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

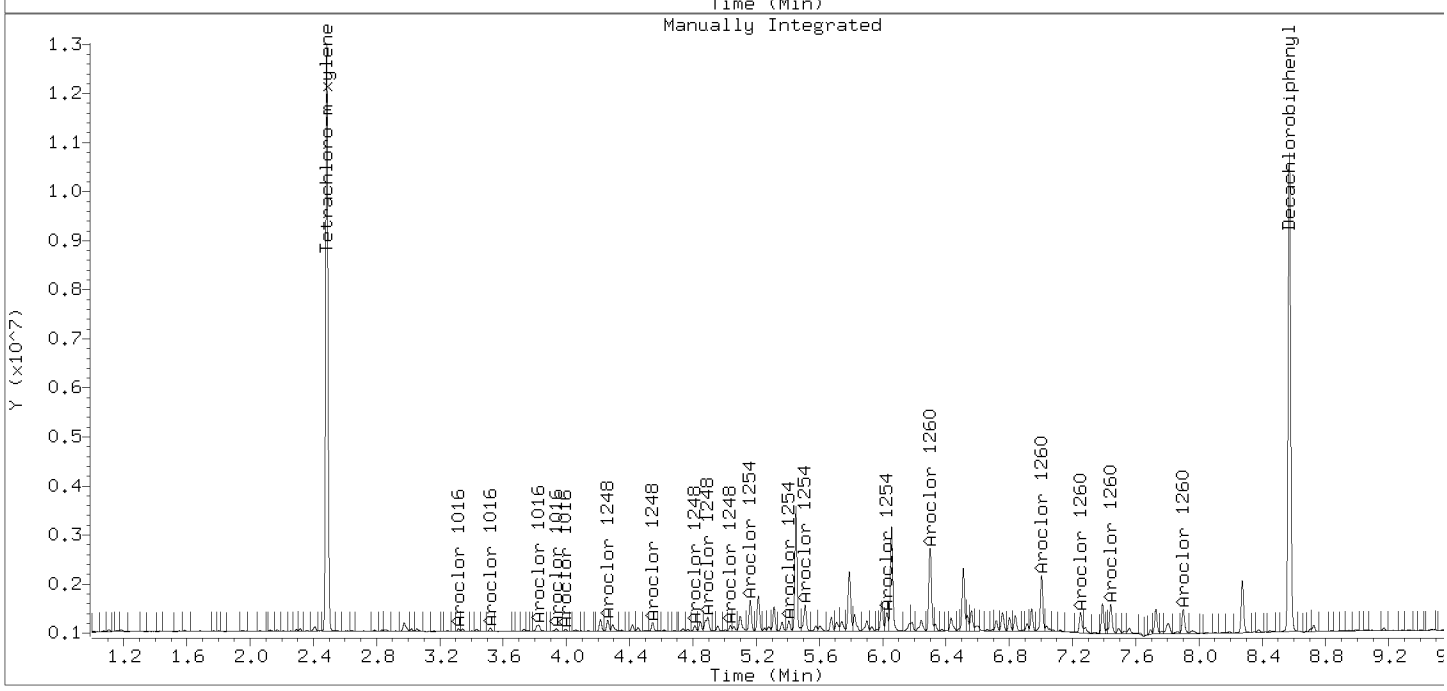
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718042.D
Date : 07-MAR-2018 18:32
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718042.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 18:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295009





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	14441	0	
Aroclor 1221	14441	0	
Aroclor 1221	14441	0	
Aroclor 1221	14441	0	
Aroclor 1221	14441	0	
Aroclor 1232	49316	0	
Aroclor 1232	49316	0	
Aroclor 1232	49316	0	
Aroclor 1232	49316	0	

Aroclor 1232	49316	0	
Aroclor 1242	56459	0	
Aroclor 1242	56459	0	
Aroclor 1242	56459	0	
Aroclor 1242	56459	0	
Aroclor 1242	56459	0	
Aroclor 1248	245458	249261	BA
Aroclor 1248	245458	249261	BA
Aroclor 1248	245458	249261	BA
Aroclor 1248	245458	249261	BA
Aroclor 1248	245458	249261	BA
Aroclor 1254	660046	706189	BA
Aroclor 1254	660046	706189	BA
Aroclor 1254	660046	706189	BA
Aroclor 1254	660046	706189	BA
Aroclor 1254	660046	706189	BA
Aroclor 1260	1977748	2060934	BA
Aroclor 1260	1977748	2060934	BA
Aroclor 1260	1977748	2060934	BA
Aroclor 1260	1977748	2060934	BA
Aroclor 1260	1977748	2060934	BA
Tetrachloro-m-xylene	12014910	12014910	
Decachlorobiphenyl	10989549	10989549	

==========

SAMPLE NO.

CS1-170518-01-STB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295010
Date Analyzed: 03/07/2018 19:04
Lab File ID: 030718.B\030718046.D
Initial wt/vol: 9.9615 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)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	210	
11097-69-1	PCB-1254 (Aroclor 1254)	330	
11096-82-5	PCB-1260 (Aroclor 1260)	202	
1336-36-3	PCB, Total	741	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718046.D
Lab Smp Id: 40150295010 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 19:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295010 x2,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 46
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	9.961	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	72313	61115	0.845	0.11		
2.011	46316	36549	0.789	0.07		
2.125	12613	9201	0.729	0.01		
2.173	14433	13326	0.923	0.02		
2.292	19089	18070	0.947	0.03		
2.313	15718	16166	1.029	0.02		
2.353	11798	7736	0.656	0.01		
2.410	93347	73640	0.789	0.14		
2.484	4601359	4539868	0.987	7.24	$ 2 Tetrachloro-m-xylene	
2.791	18016	16538	0.918	0.02		
2.852	44344	30520	0.688	0.06		
2.975	23578	30160	1.279	0.03		
3.020	62465	57077	0.914	0.09		
3.054	66579	59550	0.894	0.10		
3.317	98412	97853	0.994	0.15		
3.343	113435	113332	0.999	0.17		
3.434	73514	73260	0.997	0.11		
3.519	136129	123541	0.908	0.21		
3.642	13613	10926	0.803	0.02		
3.732	94715	95469	1.008	0.14		
3.755	48926	46635	0.953	0.07		
3.824	504624	287076	0.569	0.79		
3.938	130650	98016	0.750	0.20		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	118741	103874	0.875	0.18	
4.057	70270	53323	0.759	0.11	
4.137	27282	22313	0.818	0.04	
4.174	20462	19165	0.937	0.03	
4.215	725307	697354	0.961	1.14	
4.261	826425	806279	0.976	1.30	6 Aroclor 1248
4.291	681431	547279	0.803	1.07	
4.348	32858	25614	0.780	0.05	
4.417	364638	340679	0.934	0.57	
4.452	257478	236710	0.919	0.40	
4.545	591021	565979	0.958	0.93	6 Aroclor 1248
4.589	45275	41470	0.916	0.07	
4.617	94535	88142	0.932	0.14	
4.682	72366	66643	0.921	0.11	
4.736	109463	88217	0.806	0.17	
4.768	83825	81023	0.967	0.13	
4.812	369752	354625	0.959	0.58	6 Aroclor 1248
4.847	466067	453566	0.973	0.73	
4.893	1413026	750329	0.531	2.22	6 Aroclor 1248
4.957	358317	314785	0.879	0.56	
4.980	92709	95713	1.032	0.14	
5.003	50182	53822	1.073	0.07	
5.036	315197	293760	0.932	0.49	6 Aroclor 1248
5.058	92076	102851	1.117	0.14	
5.100	837391	680298	0.812	1.31	
5.162	1921320	1695672	0.883	3.02	7 Aroclor 1254
5.212	1892109	1721099	0.910	2.97	
5.254	87277	83284	0.954	0.13	
5.283	199944	191809	0.959	0.31	
5.313	539184	519947	0.964	0.84	
5.362	568878	533566	0.938	0.89	
5.407	702842	654783	0.932	1.10	7 Aroclor 1254
5.452	3237923	3138335	0.969	5.09	
5.478	157137	177235	1.128	0.24	
5.510	1855785	1621113	0.874	2.92	7 Aroclor 1254
5.577	211499	182680	0.864	0.33	
5.603	203844	167663	0.823	0.32	
5.675	659999	640770	0.971	1.03	
5.710	374045	273342	0.731	0.58	
5.742	599612	452643	0.755	0.94	
5.789	3521514	2934235	0.833	5.54	
5.821	355510	321184	0.903	0.55	
5.899	396338	243971	0.616	0.62	
5.931	167773	149126	0.889	0.26	
5.964	38069	39335	1.033	0.05	
5.993	1053940	1000404	0.949	1.65	
6.026	1110710	990295	0.892	1.74	7 Aroclor 1254
6.055	4314002	3947205	0.915	6.79	
6.169	478881	378047	0.789	0.75	
6.183	260920	281367	1.078	0.41	
6.242	553716	309423	0.559	0.87	
6.299	4194910	3498827	0.834	6.60	7 Aroclor 1254
6.332	381835	353261	0.925	0.60	
6.374	99281	92182	0.928	0.15	
6.432	486301	307280	0.632	0.76	
6.483	84569	76382	0.903	0.13	
6.509	1758385	1612498	0.917	2.76	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.534	783372	758219	0.968	1.23	
6.560	690175	632162	0.916	1.08	
6.605	185390	158625	0.856	0.29	
6.660	72121	66851	0.927	0.11	
6.718	380840	351893	0.924	0.59	
6.758	532086	471828	0.887	0.83	
6.801	566662	531947	0.939	0.89	
6.838	468480	418555	0.893	0.73	
6.888	32396	36171	1.117	0.05	
6.912	132488	132579	1.001	0.20	
6.941	434664	423884	0.975	0.68	
7.004	1902867	1721225	0.905	2.99	8 Aroclor 1260
7.035	216206	138206	0.639	0.34	
7.123	56600	36068	0.637	0.08	
7.252	764141	690008	0.903	1.20	8 Aroclor 1260
7.281	188516	161035	0.854	0.29	
7.389	794337	689770	0.868	1.25	
7.443	764444	668742	0.875	1.20	8 Aroclor 1260
7.494	66768	43310	0.649	0.10	
7.526	31859	30332	0.952	0.05	
7.555	66895	41837	0.625	0.10	
7.617	34624	18220	0.526	0.05	
7.691	153081	145305	0.949	0.24	
7.728	403421	360523	0.894	0.63	
7.763	70664	47425	0.671	0.11	
7.801	188199	109045	0.579	0.29	
7.863	31840	22584	0.709	0.05	
7.899	505397	453648	0.898	0.79	8 Aroclor 1260
7.956	108417	58368	0.538	0.17	
8.049	18112	15263	0.843	0.02	
8.100	11055	9326	0.844	0.01	
8.194	34459	24919	0.723	0.05	
8.275	714527	644932	0.903	1.12	
8.377	105225	89013	0.846	0.16	
8.446	18623	16544	0.888	0.02	
8.571	4721998	4078488	0.864	8.11	$ 12 Decachlorobiphenyl
8.702	16637	15274	0.918	0.02	
8.726	35124	31800	0.905	0.05	
8.817	30413	21828	0.718	0.04	
8.942	37745	25379	0.672	0.05	
8.989	11325	7271	0.642	0.01	
9.057	11657	8628	0.740	0.01	
9.169	54918	44527	0.811	0.08	
9.285	10022	8476	0.846	0.01	
9.329	11830	9004	0.761	0.01	
9.470	44384	23836	0.537	0.06	
9.703	20006	13309	0.665	0.03	
9.734	22447	17070	0.760	0.03	
9.855	12141	8846	0.729	0.01	
9.962	40597	23518	0.579	0.06	
	63510333	55944016		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718046.D
Lab Smp Id: 40150295010 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 19:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295010 x2,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 46
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	9.961	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.483	2.484	-0.001	4601359	0.03732	37			

---

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	826425	0.35272	350	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	591020	0.14240	140	0.00- 20.00	71.52	BA
4.811	4.812	-0.001	369751	0.18214	180	0.00- 20.00	44.74	BA
4.892	4.879	0.013	1413026	0.28050	280	0.00- 20.00	170.98	BA
5.036	5.038	-0.002	315197	0.08783	88	0.00- 20.00	38.14	BA
Average of Peak Concentrations =					210			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1921320	0.36700	370	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	702841	0.16341	160	0.00- 20.00	36.58	BA
5.509	5.510	-0.001	1855785	0.23896	240	0.00- 20.00	96.59	BA
6.025	6.027	-0.002	1110710	0.22809	230	0.00- 20.00	57.81	BA
6.298	6.299	-0.001	4194910	0.64467	650	0.00- 20.00	218.33	BA
Average of Peak Concentrations =					330			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	1902867	0.19001	190	0.00- 20.00	45.36	BA
7.251	7.251	0.000	764141	0.15987	160	0.00- 20.00	18.22	BA
7.442	7.443	-0.001	764443	0.26223	260	0.00- 20.00	18.22	BA
7.899	7.901	-0.002	505397	0.19153	190	0.00- 20.00	12.05	BA
Average of Peak Concentrations =					200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4721998	0.04310	43			

QC Flag Legend

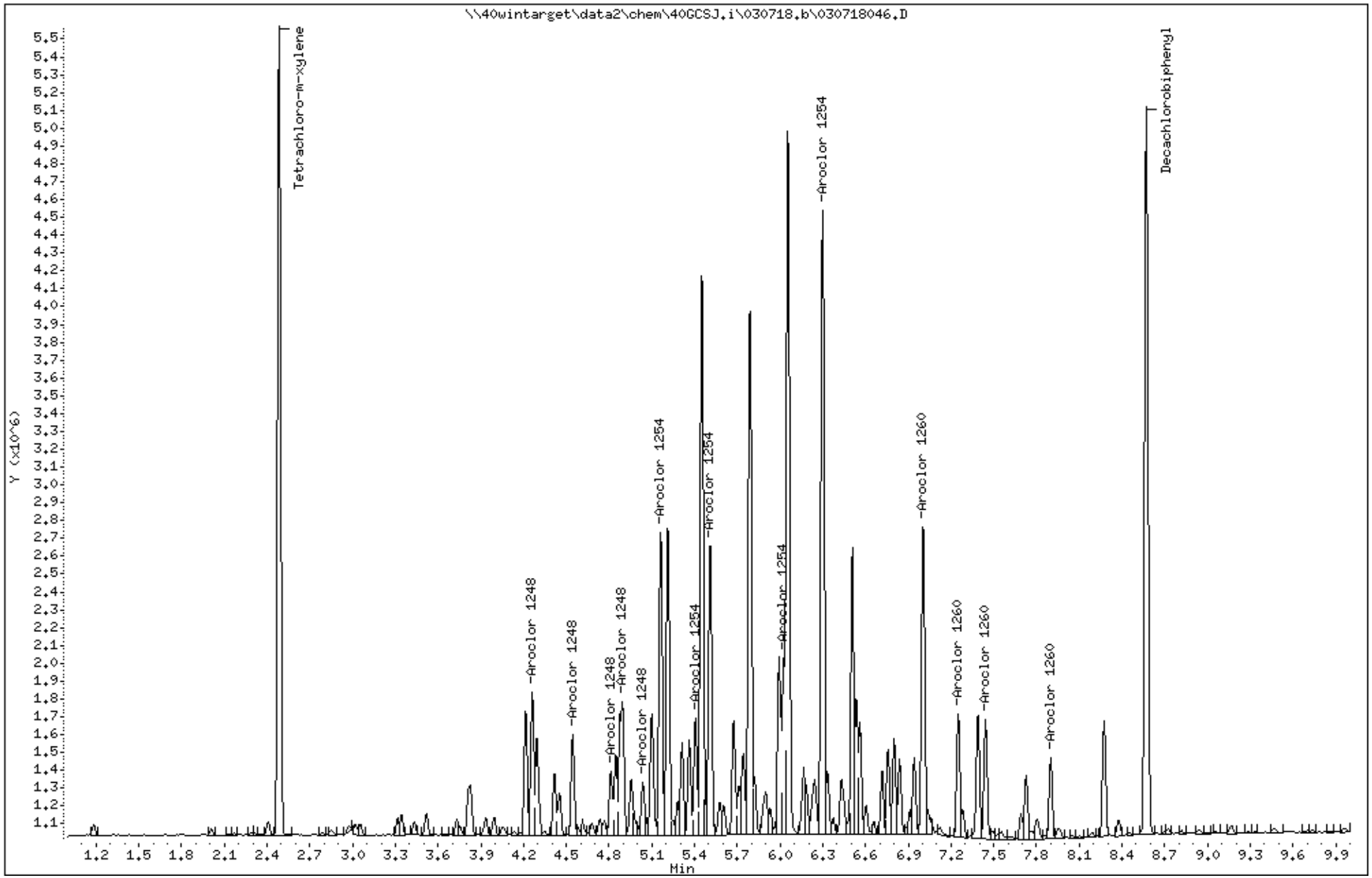
M - Compound response manually integrated.

Review Codes Legend

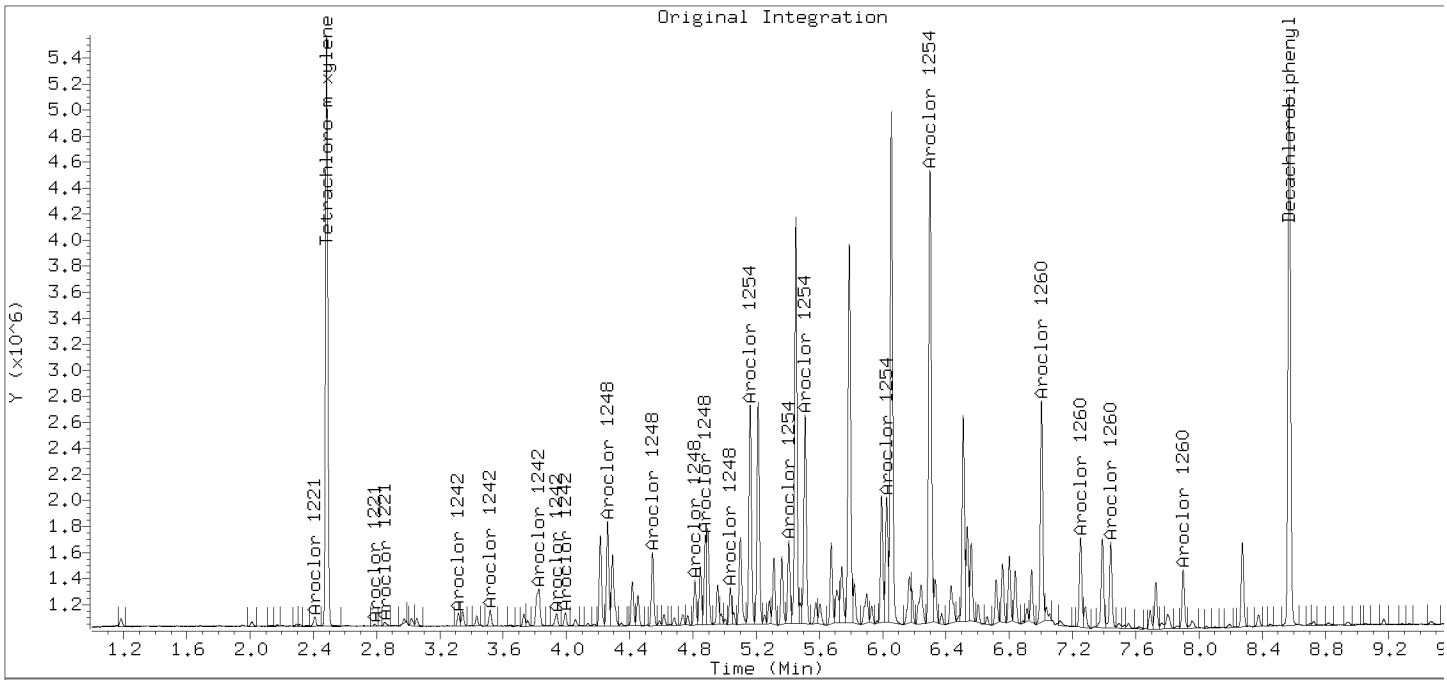
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

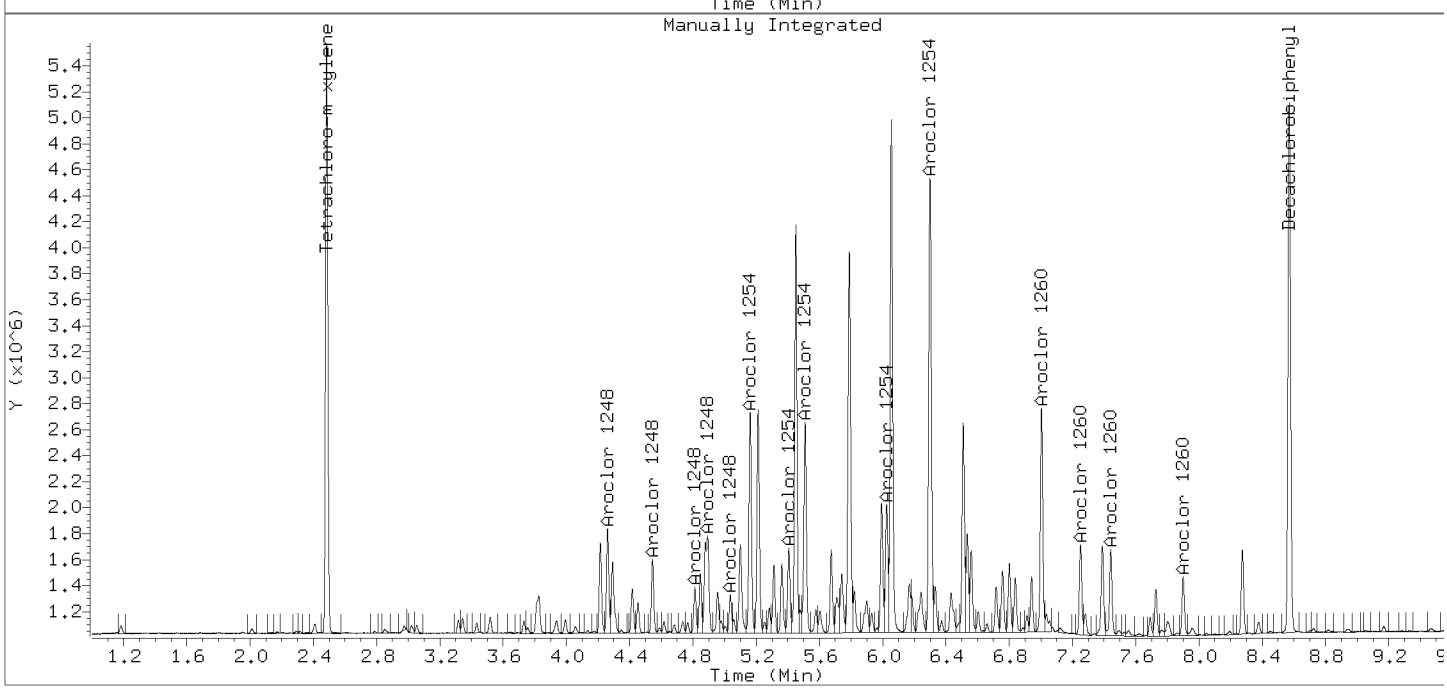
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718046.D
Date : 07-MAR-2018 19:04
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295010 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718046.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 19:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	98412	0	
Aroclor 1016	98412	0	
Aroclor 1016	98412	0	
Aroclor 1016	98412	0	
Aroclor 1016	98412	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	44343	0	
Aroclor 1232	44343	0	
Aroclor 1232	44343	0	
Aroclor 1232	44343	0	

Aroclor 1232	44343	0	
Aroclor 1242	98412	0	
Aroclor 1242	98412	0	
Aroclor 1242	98412	0	
Aroclor 1242	98412	0	
Aroclor 1242	98412	0	
Aroclor 1248	818514	826425	BA
Aroclor 1248	818514	826425	BA
Aroclor 1248	818514	826425	BA
Aroclor 1248	818514	826425	BA
Aroclor 1248	818514	826425	BA
Aroclor 1254	1875301	1921320	BA
Aroclor 1254	1875301	1921320	BA
Aroclor 1254	1875301	1921320	BA
Aroclor 1254	1875301	1921320	BA
Aroclor 1254	1875301	1921320	BA
Aroclor 1260	4123173	0	BA
Aroclor 1260	4123173	0	BA
Aroclor 1260	4123173	0	BA
Aroclor 1260	4123173	0	BA
Aroclor 1260	4123173	0	BA
Tetrachloro-m-xylene	4601359	4601359	
Decachlorobiphenyl	4721998	4721998	

==========

SAMPLE NO.

CS1-170518-01-STB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295011
Date Analyzed: 03/07/2018 19:20
Lab File ID: 030718.B\030718048.D
Initial wt/vol: 10.0004 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)	97.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	207	
11096-82-5	PCB-1260 (Aroclor 1260)	280	
1336-36-3	PCB, Total	585	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718048.D
Lab Smp Id: 40150295011 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 19:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295011 x2,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 48
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	9580	9222	0.963	0.01		
2.171	9802	9479	0.967	0.01		
2.290	18346	19116	1.042	0.03		
2.309	11112	10941	0.985	0.01		
2.407	20628	15260	0.740	0.03	1 Aroclor 1221	
2.484	4852567	4792174	0.988	8.10	$ 2 Tetrachloro-m-xylene	
2.790	15177	12287	0.810	0.02	1 Aroclor 1221	
2.855	29010	18729	0.646	0.04	1 Aroclor 1221	
2.975	26864	21442	0.798	0.04		
3.017	17602	16618	0.944	0.02		
3.055	32500	29197	0.898	0.05		
3.316	44804	41826	0.934	0.07	3 Aroclor 1242	BA
3.344	52654	49563	0.941	0.08		
3.398	14169	9725	0.686	0.02		
3.433	61031	48682	0.798	0.10		
3.518	75608	67683	0.895	0.12	3 Aroclor 1242	BA
3.731	38576	38918	1.009	0.06		
3.756	16887	17535	1.038	0.02		
3.781	19054	17992	0.944	0.03		
3.814	67431	87954	1.304	0.11		
3.826	113408	92853	0.819	0.18	3 Aroclor 1242	BA
3.939	67375	48693	0.723	0.11	3 Aroclor 1242	BA
3.993	46391	38058	0.820	0.07	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.056	42756	30795	0.720	0.07	
4.134	16648	11842	0.711	0.02	
4.215	294046	270196	0.919	0.49	
4.261	310899	291038	0.936	0.51	6 Aroclor 1248
4.291	300246	232625	0.775	0.50	
4.417	160640	142289	0.886	0.26	
4.452	118141	103414	0.875	0.19	
4.545	241152	220746	0.915	0.40	6 Aroclor 1248
4.589	40770	30362	0.745	0.06	
4.619	53047	37741	0.711	0.08	
4.681	64631	54415	0.842	0.10	
4.736	75343	58243	0.773	0.12	
4.768	69071	61776	0.894	0.11	
4.811	209824	191747	0.914	0.35	6 Aroclor 1248
4.847	184963	184296	0.996	0.30	
4.878	794338	402232	0.506	1.32	6 Aroclor 1248
4.956	222791	199345	0.895	0.37	
5.004	23907	23062	0.965	0.03	
5.037	135559	129155	0.953	0.22	6 Aroclor 1248
5.058	69775	66860	0.958	0.11	
5.101	544205	448193	0.824	0.90	
5.162	1688214	1508708	0.894	2.82	7 Aroclor 1254
5.212	1775869	1580132	0.890	2.96	
5.283	194351	173231	0.891	0.32	
5.313	440292	405442	0.921	0.73	
5.363	469525	436548	0.930	0.78	
5.406	543849	496855	0.914	0.90	7 Aroclor 1254
5.451	3247404	3103427	0.956	5.42	
5.478	123580	136479	1.104	0.20	
5.510	1383038	1206413	0.872	2.31	7 Aroclor 1254
5.577	265547	235874	0.888	0.44	
5.603	157294	112576	0.716	0.26	
5.676	690777	639942	0.926	1.15	
5.711	293592	212460	0.724	0.49	
5.741	627333	450016	0.717	1.04	
5.789	3701556	2908803	0.786	6.18	
5.900	336956	211114	0.627	0.56	
5.931	176401	157978	0.896	0.29	
5.964	33506	35557	1.061	0.05	
5.993	1335017	1223068	0.916	2.23	
6.025	976893	859370	0.880	1.63	7 Aroclor 1254
6.055	5051739	4461565	0.883	9.01	
6.168	802030	470270	0.586	1.34	
6.227	189365	224902	1.188	0.31	
6.243	425805	304927	0.716	0.71	
6.299	4592190	3889935	0.847	7.67	8 Aroclor 1260
6.333	476937	456888	0.958	0.79	
6.373	97386	83378	0.856	0.16	
6.432	513620	360157	0.701	0.85	
6.485	86061	92470	1.074	0.14	
6.509	2178102	1948183	0.894	3.63	
6.535	851106	823734	0.968	1.42	
6.560	851291	796373	0.935	1.42	
6.605	186002	169187	0.910	0.31	
6.660	97025	84087	0.867	0.16	
6.717	376972	347694	0.922	0.62	
6.757	624127	548353	0.879	1.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.802	726364	696040	0.958	1.21	
6.839	339611	294370	0.867	0.56	
6.886	28377	28939	1.020	0.04	
6.912	119770	124744	1.042	0.20	
6.941	944275	896420	0.949	1.57	
7.004	2408185	2197464	0.912	4.02	8 Aroclor 1260
7.036	258839	170581	0.659	0.43	
7.120	23976	23176	0.967	0.04	
7.251	980154	878682	0.896	1.63	8 Aroclor 1260
7.282	230836	205620	0.891	0.38	
7.389	661363	583269	0.882	1.10	
7.442	692482	642592	0.928	1.15	8 Aroclor 1260
7.493	64556	42727	0.662	0.10	
7.528	12630	15633	1.238	0.02	
7.554	58307	39672	0.680	0.09	
7.611	27768	15206	0.548	0.04	
7.690	190002	175164	0.922	0.31	
7.725	162389	143024	0.881	0.27	
7.764	39035	31827	0.815	0.06	
7.811	264653	205620	0.777	0.44	
7.857	16866	13102	0.777	0.02	
7.900	528391	479731	0.908	0.88	8 Aroclor 1260
7.960	72612	44314	0.610	0.12	
8.250	11832	11464	0.969	0.01	
8.276	289371	258200	0.892	0.48	
8.375	34996	26877	0.768	0.05	
8.449	12895	10823	0.839	0.02	
8.571	5041199	4407375	0.874	8.42	$ 12 Decachlorobiphenyl
8.706	9658	13346	1.382	0.01	
8.724	71760	60567	0.844	0.11	
9.165	14286	13670	0.957	0.02	
9.739	12763	11557	0.905	0.02	
	59844288	52622211		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718048.D
Lab Smp Id: 40150295011 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 19:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295011 x2,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 48
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	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			
Compound Not Detected.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	4852567	0.03936	39			
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			
4.261	4.261	0.000	310899	0.13269	130	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	241152	0.05810	58	0.00- 20.00	77.57	BA
4.811	4.812	-0.001	209824	0.10336	100	0.00- 20.00	67.49	BA
4.878	4.879	-0.001	794338	0.15769	160	0.00- 20.00	255.50	BA
5.036	5.038	-0.002	135558	0.03778	38	0.00- 20.00	43.60	BA
Average of Peak Concentrations =					98			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1688214	0.32247	320	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	543848	0.12645	130	0.00- 20.00	32.21	BA
5.509	5.510	-0.001	1383038	0.17809	180	0.00- 20.00	81.92	BA
6.024	6.027	-0.003	976893	0.20061	200	0.00- 20.00	57.87	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					210			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4592190	0.51817	520	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	2408185	0.24047	240	0.00- 20.00	52.44	BA
7.250	7.251	-0.001	980153	0.20506	200	0.00- 20.00	21.34	BA
7.441	7.443	-0.002	692481	0.23755	240	0.00- 20.00	15.08	BA
7.900	7.901	-0.001	528390	0.20024	200	0.00- 20.00	11.51	BA
Average of Peak Concentrations =					280			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5041198	0.04601	46			

QC Flag Legend

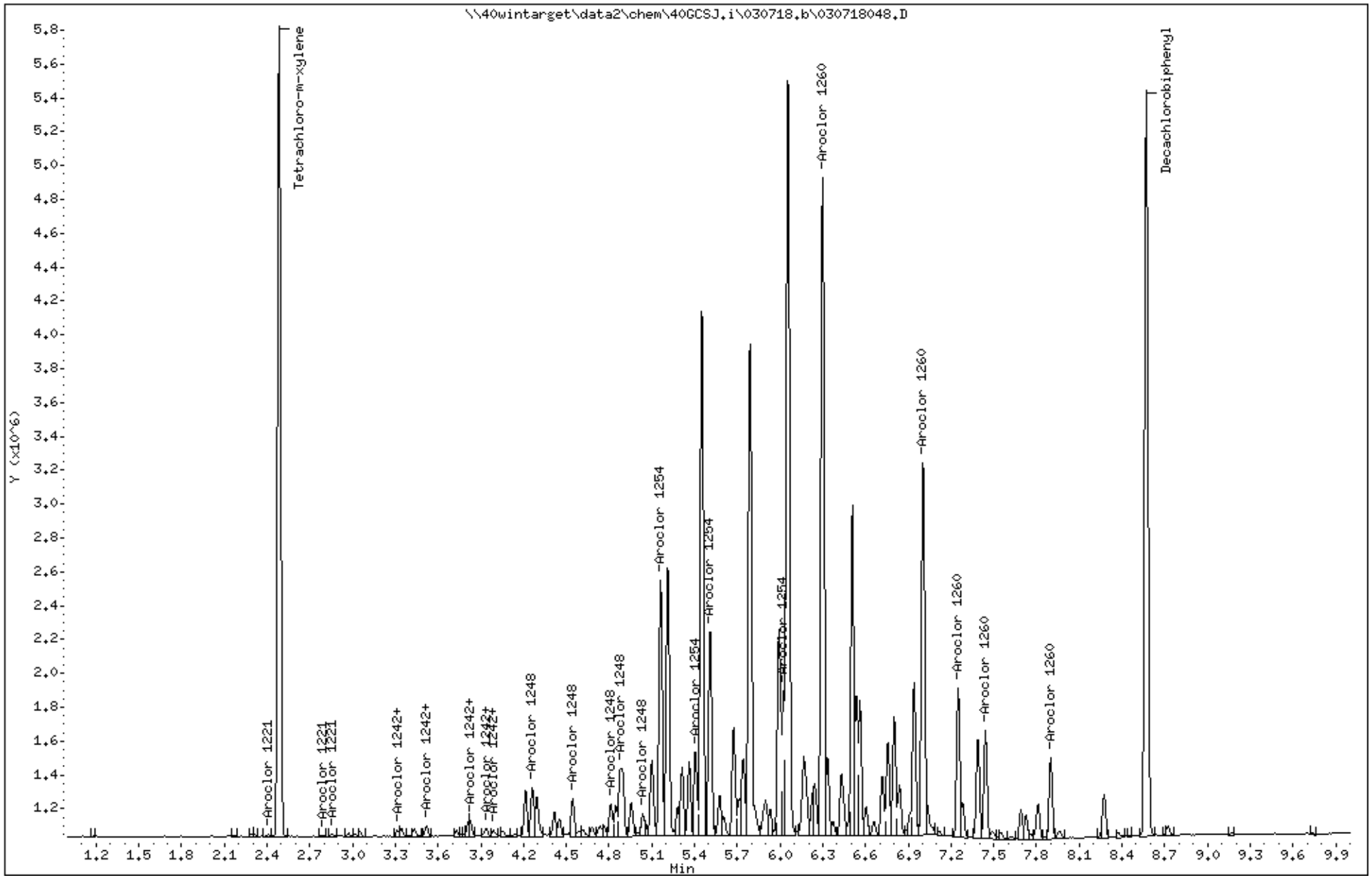
M - Compound response manually integrated.

Review Codes Legend

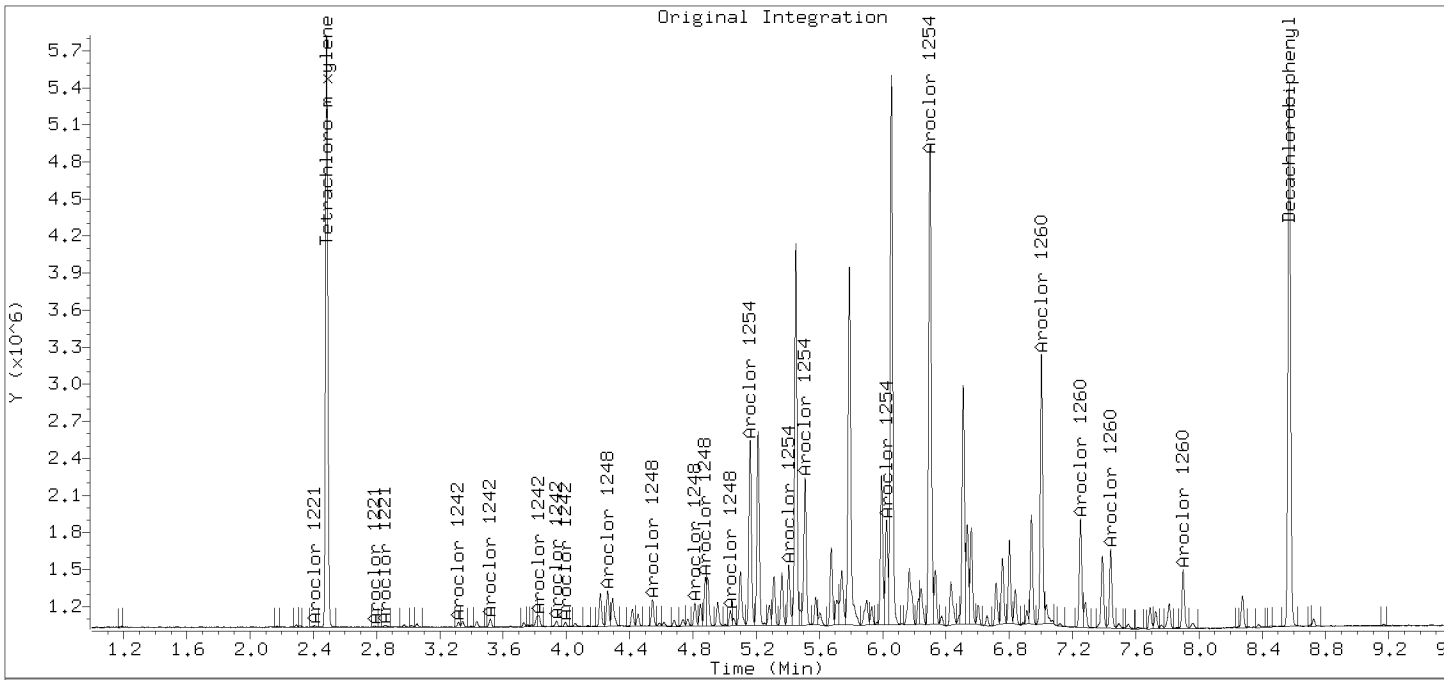
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

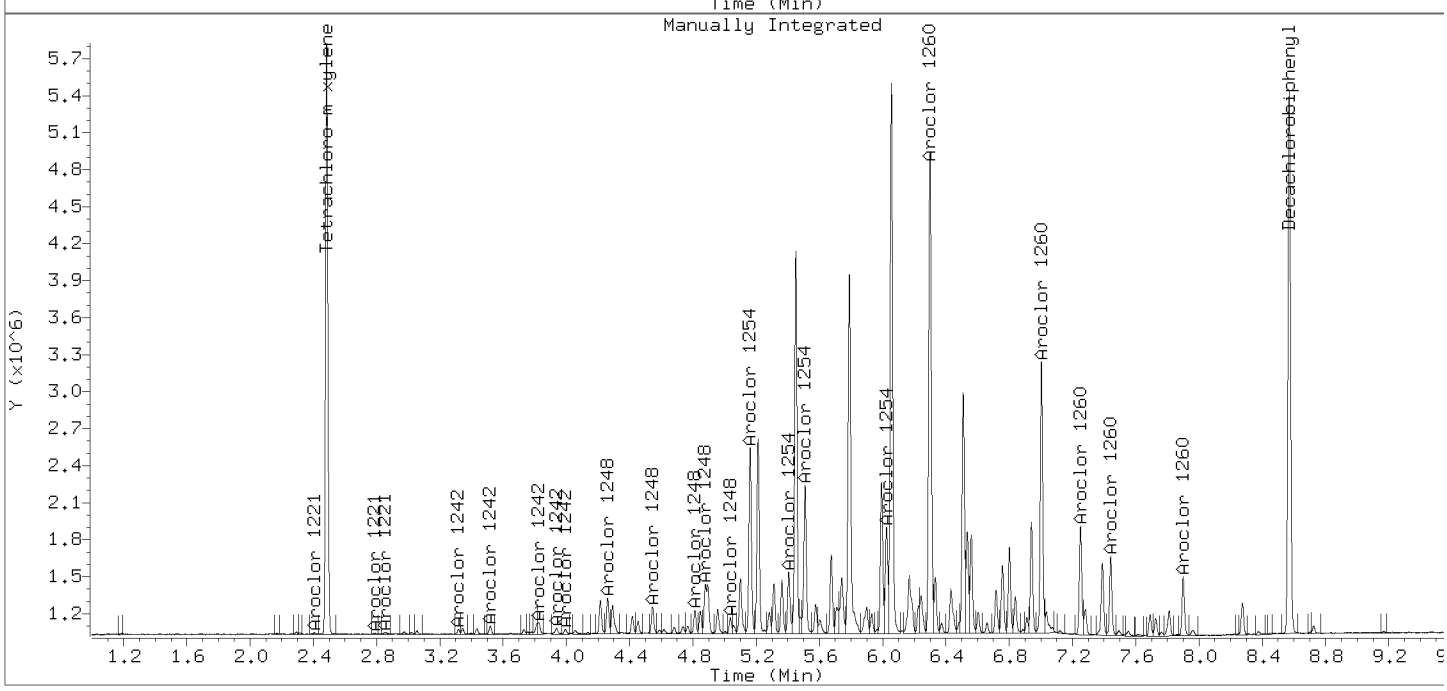
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718048.D
Date : 07-MAR-2018 19:20
Client ID: CS1-170518-01-STB-1
Sample Info: 40150295011 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718048.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 19:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295011





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	29009	0	
Aroclor 1232	29009	0	
Aroclor 1232	29009	0	
Aroclor 1232	29009	0	

Aroclor 1232	29009	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	298605	310899	BA
Aroclor 1248	298605	310899	BA
Aroclor 1248	298605	310899	BA
Aroclor 1248	298605	310899	BA
Aroclor 1248	298605	310899	BA
Aroclor 1254	1653844	1688214	BA
Aroclor 1254	1653844	1688214	BA
Aroclor 1254	1653844	1688214	BA
Aroclor 1254	1653844	1688214	BA
Aroclor 1254	1653844	1688214	BA
Aroclor 1260	4548966	4592190	BA
Aroclor 1260	4548966	4592190	BA
Aroclor 1260	4548966	4592190	BA
Aroclor 1260	4548966	4592190	BA
Aroclor 1260	4548966	4592190	BA
Tetrachloro-m-xylene	4852567	4852567	
Decachlorobiphenyl	5041198	5041198	

==========

SAMPLE NO.

CS1-170518-01-STB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295012
Date Analyzed: 03/07/2018 19:37
Lab File ID: 030718.B\030718050.D
Initial wt/vol: 9.9732 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)	61.6	
11097-69-1	PCB-1254 (Aroclor 1254)	81.4	
11096-82-5	PCB-1260 (Aroclor 1260)	105	
1336-36-3	PCB, Total	248	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718050.D
Lab Smp Id: 40150295012 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 19:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295012,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 50
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
1.008	14321	17200	1.201	0.02		
1.077	37340	28948	0.775	0.05		
1.107	70233	52283	0.744	0.09		
1.160	35654	37222	1.044	0.04		
1.183	82506	56597	0.686	0.11		
1.315	13380	10961	0.819	0.01		
1.429	12658	13159	1.040	0.01		
1.535	11373	8200	0.721	0.01		
1.685	11646	11994	1.030	0.01		
1.770	28247	30489	1.079	0.03		
1.798	14540	13810	0.950	0.02		
1.918	9604	10307	1.073	0.01		
1.952	39331	26671	0.678	0.05		
2.011	36767	25213	0.686	0.05		
2.062	15898	14665	0.922	0.02		
2.123	21856	14723	0.674	0.03		
2.171	21634	23939	1.107	0.03		
2.294	29853	27998	0.938	0.04		
2.315	35585	36531	1.027	0.04		
2.358	18749	15898	0.848	0.02		
2.409	232180	203969	0.878	0.32		
2.484	11705831	11732549	1.002	17.14	$ 2 Tetrachloro-m-xylene	
2.549	15782	14017	0.888	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.642	15492	10661	0.688	0.02	
2.788	31090	29415	0.946	0.04	
2.852	81018	45568	0.562	0.11	
2.974	307134	209726	0.683	0.42	
3.020	102234	98968	0.968	0.14	
3.054	118360	85980	0.726	0.16	
3.166	15471	12794	0.827	0.02	
3.244	13711	12496	0.911	0.01	
3.318	84675	81788	0.966	0.11	
3.343	83907	78310	0.933	0.11	
3.398	12434	11702	0.941	0.01	
3.434	87835	75375	0.858	0.12	
3.519	122191	103010	0.843	0.17	
3.732	55535	55512	1.000	0.07	
3.757	28243	28079	0.994	0.03	
3.784	13907	15753	1.133	0.01	
3.822	373797	211534	0.566	0.52	
3.937	126003	77948	0.619	0.17	
3.993	103784	79249	0.764	0.14	
4.057	99950	45936	0.460	0.13	
4.132	28260	21848	0.773	0.03	
4.160	12315	13746	1.116	0.01	
4.215	436459	394823	0.905	0.61	
4.261	419567	404467	0.964	0.58	6 Aroclor 1248
4.292	357387	275056	0.770	0.49	
4.349	61954	44263	0.714	0.08	
4.417	249285	215593	0.865	0.34	
4.452	141733	137111	0.967	0.19	
4.503	30047	18646	0.621	0.04	
4.545	316991	289552	0.913	0.44	6 Aroclor 1248
4.590	24005	25361	1.056	0.03	
4.618	55567	47935	0.863	0.07	
4.656	22188	22648	1.021	0.03	
4.682	44821	43689	0.975	0.06	
4.704	14551	19208	1.320	0.02	
4.738	106674	91209	0.855	0.14	
4.768	55932	49521	0.885	0.07	
4.813	232814	213458	0.917	0.32	6 Aroclor 1248
4.848	344950	324590	0.941	0.48	
4.894	914030	493930	0.540	1.27	6 Aroclor 1248
4.936	29053	40498	1.394	0.04	
4.957	237006	206805	0.873	0.33	
5.004	54901	53422	0.973	0.07	
5.037	224745	213424	0.950	0.31	6 Aroclor 1248
5.061	227749	173769	0.763	0.31	
5.099	853236	564700	0.662	1.19	
5.162	1333405	1138185	0.854	1.86	7 Aroclor 1254
5.214	1502028	1314420	0.875	2.10	
5.254	125902	120832	0.960	0.17	
5.283	190298	162414	0.853	0.26	
5.314	761686	730100	0.959	1.06	
5.363	380714	354984	0.932	0.53	
5.406	432711	402829	0.931	0.60	7 Aroclor 1254
5.453	5007592	5053255	1.009	7.00	
5.478	78197	129918	1.661	0.10	
5.510	1159185	952259	0.821	1.62	7 Aroclor 1254
5.577	232511	189538	0.815	0.32	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.603	223167	159959	0.717	0.31	
5.675	508254	466409	0.918	0.71	
5.710	338761	241830	0.714	0.47	
5.743	473809	346695	0.732	0.66	
5.790	2410575	1996609	0.828	3.37	
5.822	634145	562532	0.887	0.88	
5.900	448153	313379	0.699	0.62	
5.931	162112	138507	0.854	0.22	
5.966	67515	62664	0.928	0.09	
5.994	1018035	979320	0.962	1.42	
6.025	704988	628606	0.892	0.98	7 Aroclor 1254
6.056	3638357	3267398	0.898	5.08	
6.123	49891	39718	0.796	0.06	
6.168	335185	253540	0.756	0.46	
6.184	255997	244597	0.955	0.35	
6.244	526980	321610	0.610	0.73	
6.299	3272825	2758924	0.843	4.57	8 Aroclor 1260
6.333	234348	222220	0.948	0.32	
6.373	73676	63256	0.859	0.10	
6.409	20949	24274	1.159	0.02	
6.432	460011	322416	0.701	0.64	
6.483	70817	70238	0.992	0.09	
6.510	1748234	1564016	0.895	2.44	
6.535	565631	557225	0.985	0.79	
6.561	587781	522813	0.889	0.82	
6.603	213356	135397	0.635	0.29	
6.644	18054	18191	1.008	0.02	
6.658	55579	47910	0.862	0.07	
6.718	301679	265467	0.880	0.42	
6.757	549346	473034	0.861	0.76	
6.802	412483	382699	0.928	0.57	
6.840	371541	324798	0.874	0.51	
6.888	21479	26709	1.244	0.03	
6.914	148456	140841	0.949	0.20	
6.941	613547	630779	1.028	0.85	
7.005	1456205	1351782	0.928	2.03	8 Aroclor 1260
7.036	161648	120268	0.744	0.22	
7.077	29762	23917	0.804	0.04	
7.121	37452	27383	0.731	0.05	
7.168	28814	11444	0.397	0.04	
7.251	595286	550141	0.924	0.83	8 Aroclor 1260
7.281	180894	132716	0.734	0.25	
7.342	33940	24955	0.735	0.04	
7.363	14911	27714	1.859	0.02	
7.389	618821	559329	0.904	0.86	
7.419	189939	199635	1.051	0.26	
7.442	653527	550902	0.843	0.91	8 Aroclor 1260
7.492	164985	121569	0.737	0.23	
7.527	60283	52556	0.872	0.08	
7.560	196428	150765	0.768	0.27	
7.620	69645	35262	0.506	0.09	
7.666	11875	15135	1.275	0.01	
7.691	112579	105321	0.936	0.15	
7.727	479245	423214	0.883	0.67	
7.764	43051	41347	0.960	0.06	
7.806	324441	178631	0.551	0.45	
7.861	58941	44367	0.753	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.901	494935	413202	0.835	0.69	8 Aroclor 1260
7.958	88704	43995	0.496	0.12	
8.050	40324	33759	0.837	0.05	
8.103	15374	13881	0.903	0.02	
8.153	14603	10820	0.741	0.02	
8.191	31289	20493	0.655	0.04	
8.241	10350	12032	1.163	0.01	
8.275	1003152	893041	0.890	1.40	
8.378	60914	47766	0.784	0.08	
8.448	38841	20966	0.540	0.05	
8.530	9765	13110	1.343	0.01	
8.572	11094628	9700239	0.874	15.51	$ 12 Decachlorobiphenyl
8.701	46008	48632	1.057	0.06	
8.725	118935	108058	0.909	0.16	
8.838	24221	17265	0.713	0.03	
8.944	29058	18698	0.643	0.04	
8.991	16297	14133	0.867	0.02	
9.054	29178	25105	0.860	0.04	
9.168	56345	47119	0.836	0.07	
9.286	12098	10148	0.839	0.01	
9.330	12212	13285	1.088	0.01	
9.402	11064	8624	0.779	0.01	
9.467	48797	24189	0.496	0.06	
9.542	10401	11716	1.126	0.01	
9.700	15088	15334	1.016	0.02	
9.735	38770	33574	0.866	0.05	
	71521924	63687270		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718050.D
Lab Smp Id: 40150295012 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 19:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295012,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 50
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	11705830	0.09494	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			
4.261	4.261	0.000	419566	0.17907	90	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	316990	0.07638	38	0.00- 20.00	75.55	BA
4.812	4.812	0.000	232814	0.11468	57	0.00- 20.00	55.49	BA
4.893	4.879	0.014	914029	0.18145	91	0.00- 20.00	217.85	BA
5.036	5.038	-0.002	224744	0.06263	31	0.00- 20.00	53.57	BA
Average of Peak Concentrations =					62			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1333405	0.25470	130	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	432711	0.10061	50	0.00- 20.00	32.45	BA
5.510	5.510	0.000	1159185	0.14926	75	0.00- 20.00	86.93	BA
6.025	6.027	-0.002	704988	0.14477	72	0.00- 20.00	52.87	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					81			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3272825	0.36930	180	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1456205	0.14541	73	0.00- 20.00	44.49	BA
7.250	7.251	-0.001	595285	0.12454	62	0.00- 20.00	18.19	BA
7.442	7.443	-0.001	653527	0.22419	110	0.00- 20.00	19.97	BA
7.901	7.901	0.000	494934	0.18756	94	0.00- 20.00	15.12	BA
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	11094627	0.10127	51			

QC Flag Legend

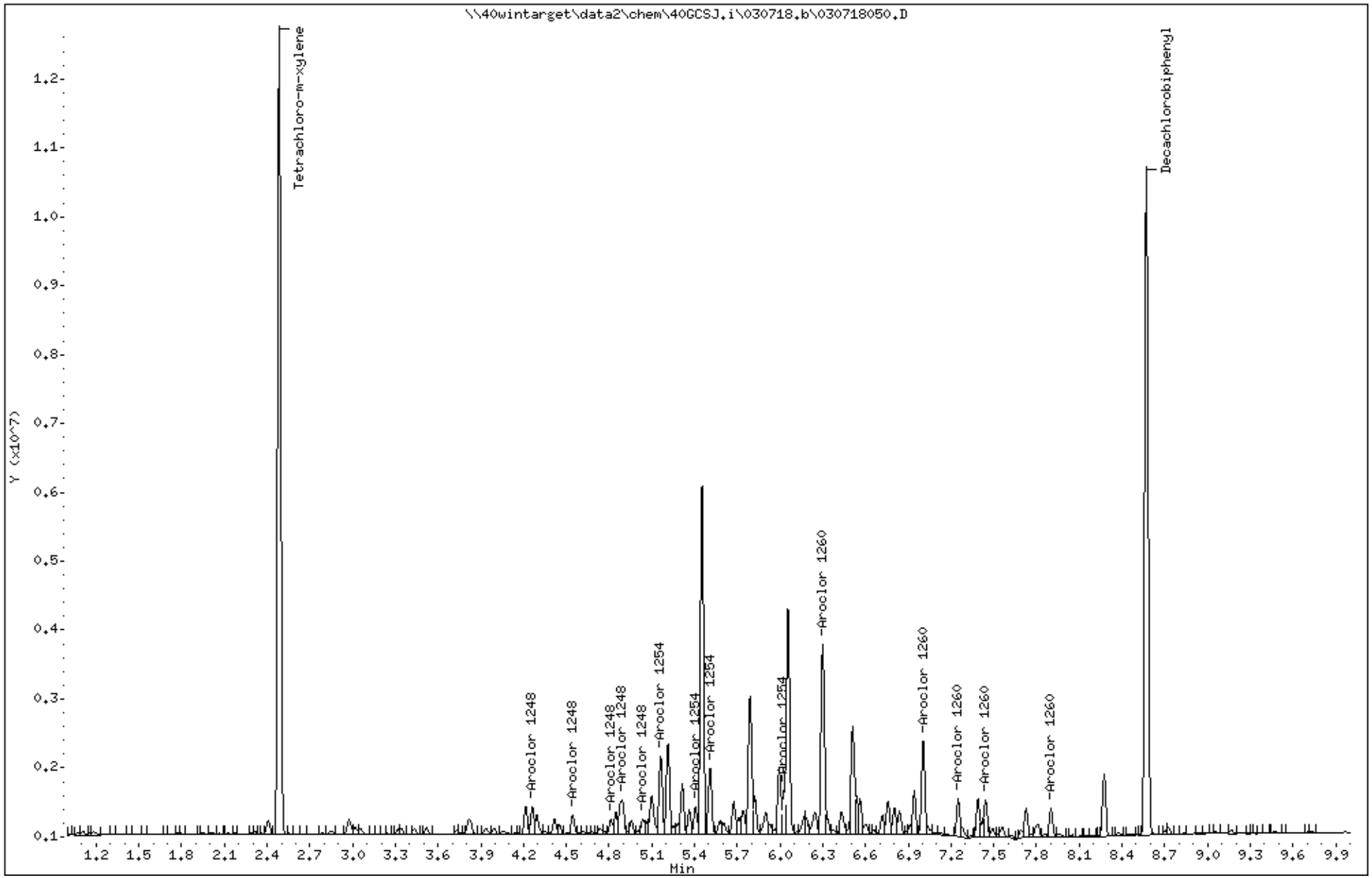
M - Compound response manually integrated.

Review Codes Legend

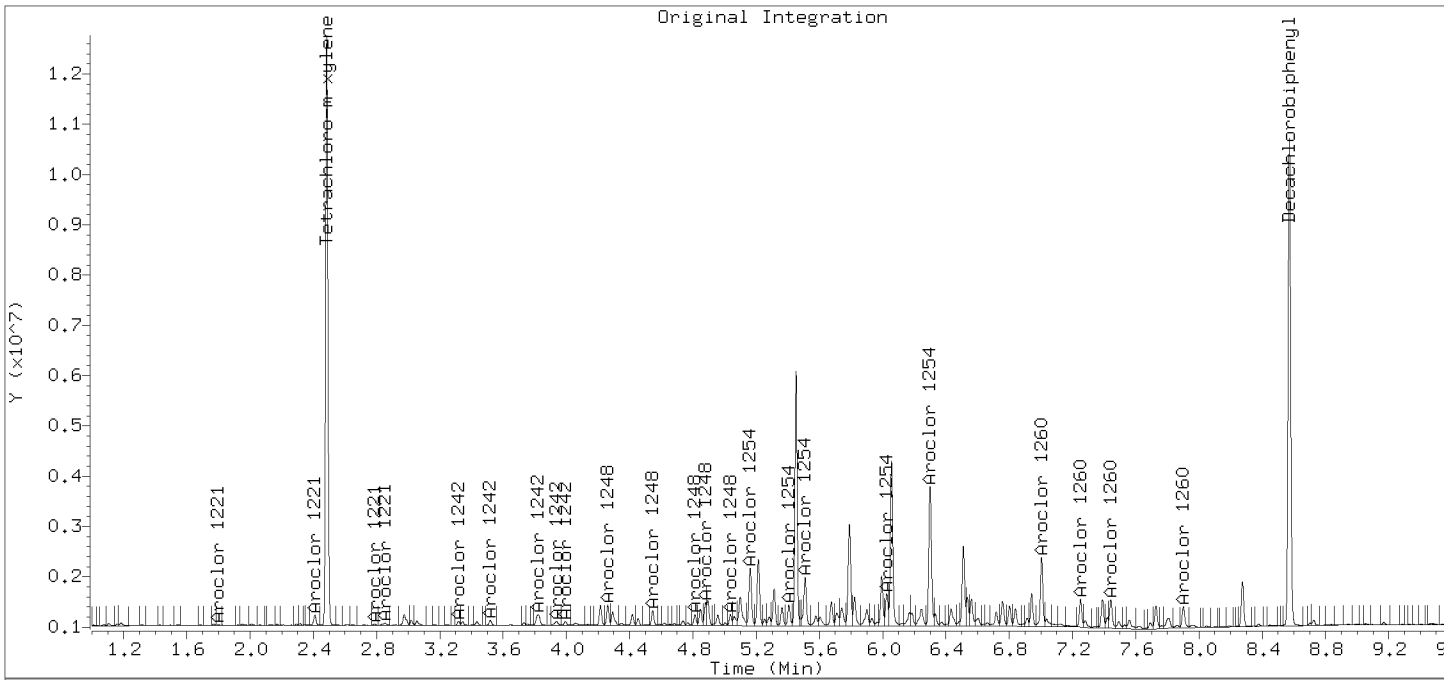
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

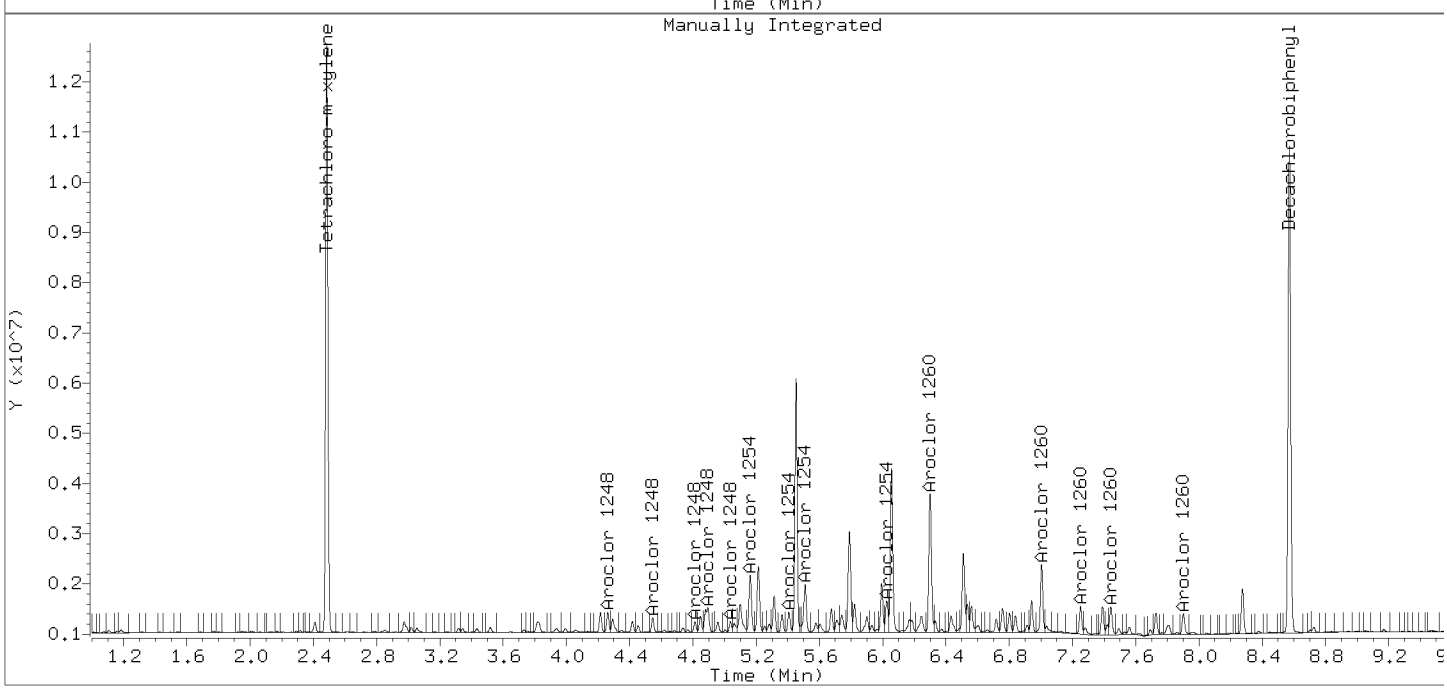
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718050.D
Date : 07-MAR-2018 19:37
Client ID: CS1-170518-01-STB-0
Sample Info: 40150295012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718050.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 19:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	84675	0	
Aroclor 1016	84675	0	
Aroclor 1016	84675	0	
Aroclor 1016	84675	0	
Aroclor 1016	84675	0	
Aroclor 1221	14539	0	
Aroclor 1221	14539	0	
Aroclor 1221	14539	0	
Aroclor 1221	14539	0	
Aroclor 1221	14539	0	
Aroclor 1232	81017	0	
Aroclor 1232	81017	0	
Aroclor 1232	81017	0	
Aroclor 1232	81017	0	

Aroclor 1232	81017	0	
Aroclor 1242	84675	0	
Aroclor 1242	84675	0	
Aroclor 1242	84675	0	
Aroclor 1242	84675	0	
Aroclor 1242	84675	0	
Aroclor 1248	417375	419566	BA
Aroclor 1248	417375	419566	BA
Aroclor 1248	417375	419566	BA
Aroclor 1248	417375	419566	BA
Aroclor 1248	417375	419566	BA
Aroclor 1254	1354995	1333405	BA
Aroclor 1254	1354995	1333405	BA
Aroclor 1254	1354995	1333405	BA
Aroclor 1254	1354995	1333405	BA
Aroclor 1254	1354995	1333405	BA
Aroclor 1260	3329842	3272825	BA
Aroclor 1260	3329842	3272825	BA
Aroclor 1260	3329842	3272825	BA
Aroclor 1260	3329842	3272825	BA
Aroclor 1260	3329842	3272825	BA
Tetrachloro-m-xylene	11705830	11705830	
Decachlorobiphenyl	11094627	11094627	

==========

SAMPLE NO.

CS1-170518-01-STB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295013
Date Analyzed: 03/07/2018 19:53
Lab File ID: 030718.B\030718052.D
Initial wt/vol: 9.9876 g Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1870	
11097-69-1	PCB-1254 (Aroclor 1254)	1690	
11096-82-5	PCB-1260 (Aroclor 1260)	1030	
1336-36-3	PCB, Total	4580	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718052.D
Lab Smp Id: 40150295013 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 19:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295013 x10,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52
Dil Factor: 10.00000
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	10.000	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
2.409	38036	26800	0.705	0.06		
2.484	1179636	1161192	0.984	1.88	$ 2 Tetrachloro-m-xylene	
2.786	10515	8277	0.787	0.01		
2.850	22767	20050	0.881	0.03		
2.975	36300	20671	0.569	0.05		
3.017	22291	22016	0.988	0.03		
3.055	46362	39831	0.859	0.07		
3.318	194297	191504	0.986	0.31		
3.343	253836	245212	0.966	0.40		
3.433	153054	137509	0.898	0.24		
3.518	250968	223858	0.892	0.40		
3.643	26295	22149	0.842	0.04		
3.731	232272	233014	1.003	0.37		
3.755	114142	112249	0.983	0.18		
3.814	493129	537824	1.091	0.78		
3.825	505581	528355	1.045	0.80		
3.938	258862	213630	0.825	0.41		
3.993	187015	177554	0.949	0.29		
4.058	113443	104199	0.919	0.18		
4.136	49141	43901	0.893	0.07		
4.214	1522777	1402934	0.921	2.43		
4.261	1963369	1915183	0.975	3.14	6 Aroclor 1248	CO
4.292	1842379	1549117	0.841	2.95		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.349	23769	18058	0.760	0.03	
4.416	664471	634386	0.955	1.06	
4.452	498408	481645	0.966	0.79	
4.545	1328505	1247861	0.939	2.12	6 Aroclor 1248
4.590	90922	88523	0.974	0.14	
4.617	196419	181381	0.923	0.31	
4.681	142746	131282	0.920	0.22	
4.737	190991	160898	0.842	0.30	
4.766	167373	160114	0.957	0.26	
4.812	460181	446532	0.970	0.73	6 Aroclor 1248
4.847	601917	599200	0.995	0.96	
4.894	1943196	1222226	0.629	3.11	6 Aroclor 1248
4.957	706211	658308	0.932	1.13	
5.002	23993	23583	0.983	0.03	
5.036	341572	331607	0.971	0.54	6 Aroclor 1248
5.058	68129	77861	1.143	0.10	
5.100	1285965	1098150	0.854	2.05	
5.161	2097957	1821696	0.868	3.35	7 Aroclor 1254
5.212	1834006	1660129	0.905	2.93	
5.253	52565	51688	0.983	0.08	
5.283	257077	242101	0.942	0.41	
5.311	523988	468971	0.895	0.83	
5.362	605028	576393	0.953	0.96	
5.406	872171	809827	0.929	1.39	7 Aroclor 1254
5.451	3309073	3203227	0.968	5.29	
5.477	231442	245432	1.060	0.37	
5.509	2218231	1963745	0.885	3.55	7 Aroclor 1254
5.577	238671	223838	0.938	0.38	
5.603	208202	185279	0.890	0.33	
5.674	852919	820754	0.962	1.36	
5.709	457219	356493	0.780	0.73	
5.742	542243	431376	0.796	0.86	
5.789	2872646	2402497	0.836	4.59	
5.821	388857	351368	0.904	0.62	
5.885	351192	180245	0.513	0.56	
5.931	228722	209641	0.917	0.36	
5.993	1074056	1003711	0.935	1.71	
6.026	950011	875393	0.921	1.52	7 Aroclor 1254
6.055	3710403	3215188	0.867	5.94	
6.167	764860	471886	0.617	1.22	
6.227	190396	228908	1.202	0.30	
6.242	403491	309909	0.768	0.64	
6.299	3899326	3232958	0.829	6.85	7 Aroclor 1254
6.333	339509	320893	0.945	0.54	
6.372	116072	112299	0.967	0.18	
6.433	416366	328100	0.788	0.66	
6.484	51683	61089	1.182	0.08	
6.510	1667680	1502113	0.901	2.67	
6.535	715557	711906	0.995	1.14	
6.561	660217	599393	0.908	1.05	
6.604	124376	109471	0.880	0.19	
6.660	97699	97929	1.002	0.15	
6.719	421498	374071	0.887	0.67	
6.758	460369	395775	0.860	0.73	
6.802	542066	514177	0.949	0.86	
6.838	278684	238458	0.856	0.44	
6.912	85485	89245	1.044	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.942	807285	764161	0.947	1.29	
7.004	2027226	1900610	0.938	3.24	8 Aroclor 1260
7.034	184192	134658	0.731	0.29	
7.120	31870	28209	0.885	0.05	
7.250	821894	725718	0.883	1.31	8 Aroclor 1260
7.282	211494	179478	0.849	0.33	
7.389	701873	600766	0.856	1.12	
7.442	770143	710870	0.923	1.23	8 Aroclor 1260
7.493	59380	40522	0.682	0.09	
7.529	22380	21412	0.957	0.03	
7.552	49646	36651	0.738	0.07	
7.618	21229	12696	0.598	0.03	
7.690	167942	156874	0.934	0.26	
7.726	209082	180760	0.865	0.33	
7.763	37263	32860	0.882	0.05	
7.812	261180	178341	0.683	0.41	
7.862	16707	15304	0.916	0.02	
7.899	479291	416393	0.869	0.76	8 Aroclor 1260
7.958	70344	44299	0.630	0.11	
8.180	11053	8636	0.781	0.01	
8.273	462857	433728	0.937	0.74	
8.378	20458	17623	0.861	0.03	
8.449	16938	15526	0.917	0.02	
8.570	1393155	1235665	0.887	2.23	$ 12 Decachlorobiphenyl
8.706	14378	16565	1.152	0.02	
8.727	67436	58381	0.866	0.10	
9.170	103934	87955	0.846	0.16	
9.284	11441	6911	0.604	0.01	
9.735	17345	13059	0.753	0.02	
9.962	17551	10869	0.619	0.02	
	62450218	55581716		100.000	

Total unknown % area = 63

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718052.D
Lab Smp Id: 40150295013 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 19:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295013 x10,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52
Dil Factor: 10.00000
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	10.000	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		
2.483	2.484	-0.001	1179635	0.00957	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	1963369	0.83798	4200	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1328505	0.32010	1600	0.00- 20.00	67.66	CO
4.812	4.812	0.000	460181	0.22668	1100	0.00- 20.00	23.44	CO
4.893	4.879	0.014	1943196	0.38575	1900	0.00- 20.00	98.97	CO
5.036	5.038	-0.002	341571	0.09518	480	0.00- 20.00	17.40	CO
Average of Peak Concentrations =					1900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2097956	0.40074	2000	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	872170	0.20278	1000	0.00- 20.00	41.57	BA
5.508	5.510	-0.002	2218231	0.28563	1400	0.00- 20.00	105.73	BA
6.026	6.027	-0.001	950011	0.19509	980	0.00- 20.00	45.28	BA
6.298	6.299	-0.001	3899325	0.59924	3000	0.00- 20.00	185.86	BA
Average of Peak Concentrations =					1700			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	2027226	0.20243	1000	0.00- 20.00	51.99	BA
7.250	7.251	-0.001	821894	0.17195	860	0.00- 20.00	21.08	BA
7.442	7.443	-0.001	770143	0.26419	1300	0.00- 20.00	19.75	BA
7.898	7.901	-0.003	479291	0.18164	910	0.00- 20.00	12.29	BA
Average of Peak Concentrations =					1000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1393155	0.01272	64			

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\030718.b\030718052.D

Date : 07-MAR-2018 19:53

Client ID: CS1-170518-01-STB-0

Instrument: 40GCSJ.i

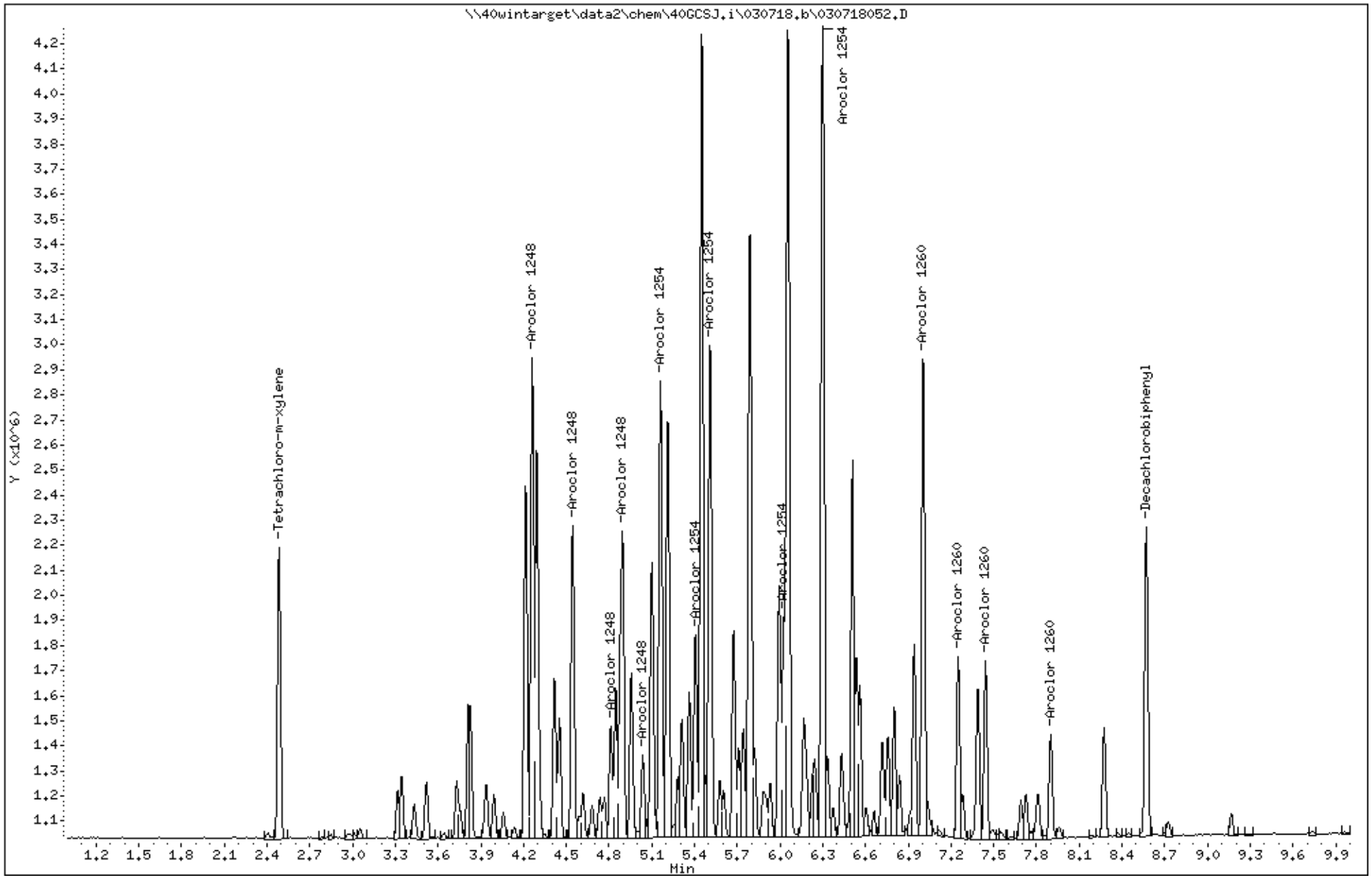
Sample Info: 40150295013 x10,

Volume Injected (uL): 1.0

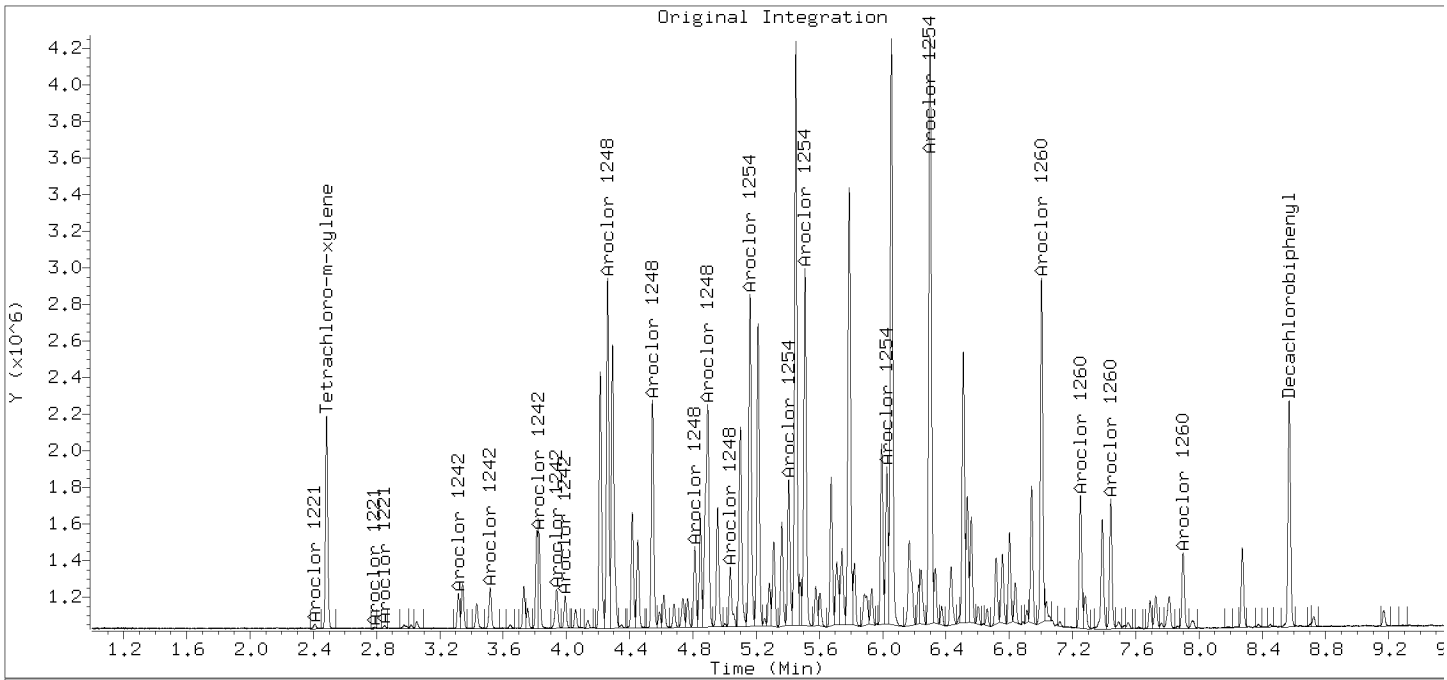
Operator: BLM

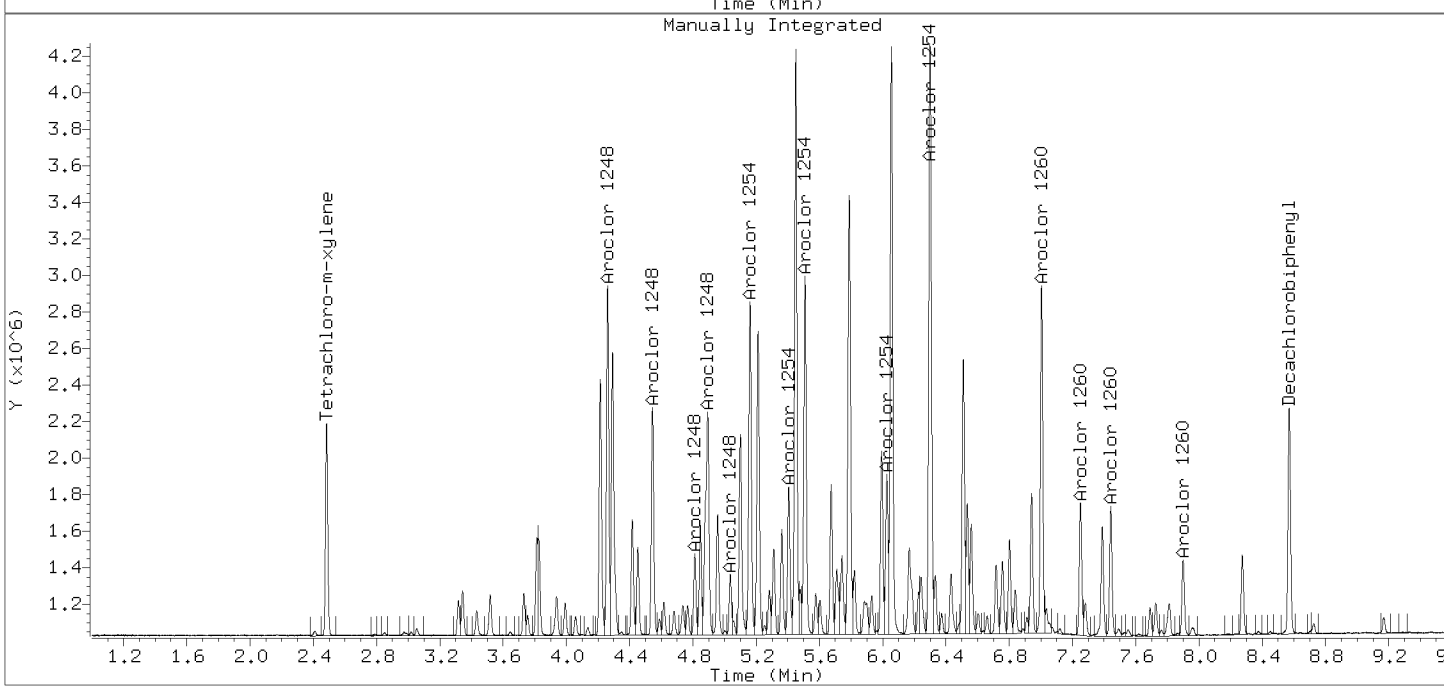
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718052.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 19:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	194296	0	
Aroclor 1016	194296	0	
Aroclor 1016	194296	0	
Aroclor 1016	194296	0	
Aroclor 1016	194296	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22767	0	
Aroclor 1232	22767	0	
Aroclor 1232	22767	0	
Aroclor 1232	22767	0	

Aroclor 1232	22767	0	
Aroclor 1242	194296	0	
Aroclor 1242	194296	0	
Aroclor 1242	194296	0	
Aroclor 1242	194296	0	
Aroclor 1242	194296	0	
Aroclor 1248	1959973	1963369	CO
Aroclor 1248	1959973	1963369	CO
Aroclor 1248	1959973	1963369	CO
Aroclor 1248	1959973	1963369	CO
Aroclor 1248	1959973	1963369	CO
Aroclor 1254	2073949	2097956	BA
Aroclor 1254	2073949	2097956	BA
Aroclor 1254	2073949	2097956	BA
Aroclor 1254	2073949	2097956	BA
Aroclor 1254	2073949	2097956	BA
Aroclor 1260	3848855	0	BA
Aroclor 1260	3848855	0	BA
Aroclor 1260	3848855	0	BA
Aroclor 1260	3848855	0	BA
Aroclor 1260	3848855	0	BA
Tetrachloro-m-xylene	1179635	1179635	
Decachlorobiphenyl	1393155	1393155	

==========

SAMPLE NO.

CS1-170518-01-STB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295014
Date Analyzed: 03/07/2018 20:09
Lab File ID: 030718.B\030718054.D
Initial wt/vol: 10.0191 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)	37.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	58.3	
11096-82-5	PCB-1260 (Aroclor 1260)	84.8	
1336-36-3	PCB, Total	181	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718054.D
Lab Smp Id: 40150295014 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 20:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295014,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.019	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.161	14957	16455	1.100	0.02		
1.182	46407	30660	0.661	0.08		
1.427	13691	10241	0.748	0.02		
1.953	12571	12021	0.956	0.02		
2.010	26350	16770	0.636	0.04		
2.062	9843	9687	0.984	0.01		
2.129	15468	9591	0.620	0.02		
2.170	13169	14465	1.098	0.02		
2.293	96634	65714	0.680	0.16		
2.353	10308	7321	0.710	0.01		
2.410	99596	79211	0.795	0.17		
2.484	11110018	10994338	0.990	20.16	$ 2 Tetrachloro-m-xylene	
2.645	10413	7651	0.735	0.01		
2.787	28081	24721	0.880	0.04		
2.854	64307	34649	0.539	0.11		
2.974	150690	94787	0.629	0.26		
3.021	58644	54082	0.922	0.10		
3.055	60107	53115	0.884	0.10		
3.318	49209	48227	0.980	0.08		
3.343	48073	47451	0.987	0.08		
3.398	13633	14479	1.062	0.02		
3.434	52657	47414	0.900	0.09		
3.519	76367	62164	0.814	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.730	28990	31431	1.084	0.05	
3.816	122741	80823	0.658	0.21	
3.922	85695	89499	1.044	0.14	
3.932	181425	95087	0.524	0.31	
3.993	118953	63816	0.536	0.20	
4.057	89465	41084	0.459	0.15	
4.215	250794	216388	0.863	0.43	
4.262	239770	224589	0.937	0.41	6 Aroclor 1248
4.294	213751	157384	0.736	0.37	
4.343	31423	23597	0.751	0.05	
4.417	135547	109719	0.809	0.23	
4.453	90244	76557	0.848	0.15	
4.508	51360	29388	0.572	0.08	
4.545	206515	171938	0.833	0.36	6 Aroclor 1248
4.586	33513	25425	0.759	0.05	
4.617	42467	31981	0.753	0.07	
4.679	31978	26660	0.834	0.05	
4.738	78391	56928	0.726	0.13	
4.768	76675	51005	0.665	0.13	
4.812	169085	144937	0.857	0.29	6 Aroclor 1248
4.846	228319	208449	0.913	0.39	
4.880	532300	259802	0.488	0.93	6 Aroclor 1248
4.957	154740	112800	0.729	0.27	
5.004	33993	28904	0.850	0.05	
5.037	120808	119298	0.987	0.21	6 Aroclor 1248
5.069	854381	595036	0.696	1.49	
5.099	1020495	530202	0.520	1.78	
5.162	1036360	818511	0.790	1.81	7 Aroclor 1254
5.213	1047539	877523	0.838	1.83	
5.253	84879	72997	0.860	0.14	
5.282	156157	115394	0.739	0.27	
5.313	524962	478398	0.911	0.91	
5.362	281456	222725	0.791	0.49	
5.407	318871	278705	0.874	0.55	7 Aroclor 1254
5.451	2127507	2174109	1.022	3.72	
5.481	57154	91162	1.595	0.10	
5.509	748400	570585	0.762	1.30	7 Aroclor 1254
5.577	186439	127466	0.684	0.32	
5.603	206246	123210	0.597	0.36	
5.675	372317	313655	0.842	0.65	
5.709	238689	170767	0.715	0.41	
5.741	353389	255401	0.723	0.61	
5.790	1716407	1409041	0.821	3.00	
5.822	534295	331051	0.620	0.93	
5.900	389946	219215	0.562	0.68	
5.931	179769	123595	0.688	0.31	
5.962	59233	55495	0.937	0.10	
5.993	764570	698402	0.913	1.33	
6.026	482132	437052	0.906	0.84	7 Aroclor 1254
6.055	2778663	2463162	0.886	4.86	
6.123	235816	159883	0.678	0.41	
6.168	313361	212981	0.680	0.54	
6.184	191190	190307	0.995	0.33	
6.243	385530	221855	0.575	0.67	
6.299	2388537	2032540	0.851	4.17	8 Aroclor 1260
6.332	194715	185589	0.953	0.34	
6.372	70445	52742	0.749	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.432	371982	243521	0.655	0.65	
6.484	53512	59301	1.108	0.09	
6.509	1337648	1208743	0.904	2.34	
6.535	398865	383496	0.961	0.69	
6.560	470433	416139	0.885	0.82	
6.603	161601	112504	0.696	0.28	
6.634	46858	43637	0.931	0.08	
6.658	50660	44055	0.870	0.08	
6.693	14508	24304	1.675	0.02	
6.718	233855	190802	0.816	0.40	
6.758	412951	350819	0.850	0.72	
6.802	356966	320688	0.898	0.62	
6.837	331239	271367	0.819	0.57	
6.888	17494	22219	1.270	0.03	
6.913	129539	125390	0.968	0.22	
6.941	541264	530541	0.980	0.94	
7.004	1238840	1141987	0.922	2.16	8 Aroclor 1260
7.034	129768	96192	0.741	0.22	
7.077	34008	25612	0.753	0.05	
7.121	29186	25933	0.889	0.05	
7.251	484023	436521	0.902	0.84	8 Aroclor 1260
7.281	144175	106669	0.740	0.25	
7.338	25710	22021	0.857	0.04	
7.389	564853	504014	0.892	0.98	
7.421	72510	85037	1.173	0.12	
7.442	550735	493945	0.897	0.96	8 Aroclor 1260
7.492	104903	78430	0.748	0.18	
7.529	44164	38733	0.877	0.07	
7.559	114977	88666	0.771	0.20	
7.626	43964	23861	0.543	0.07	
7.692	105349	100189	0.951	0.18	
7.727	352670	318815	0.904	0.61	
7.763	45336	35890	0.792	0.07	
7.808	254524	146483	0.576	0.44	
7.861	30557	25757	0.843	0.05	
7.900	438396	382832	0.873	0.76	8 Aroclor 1260
7.960	64299	35825	0.557	0.11	
8.045	14404	14569	1.011	0.02	
8.096	9252	7800	0.843	0.01	
8.195	25571	18414	0.720	0.04	
8.275	717898	677119	0.943	1.25	
8.377	54846	43992	0.802	0.09	
8.447	15155	12416	0.819	0.02	
8.570	10278342	8904567	0.866	17.98	$ 12 Decachlorobiphenyl
8.703	46720	44958	0.962	0.08	
8.726	108050	96651	0.894	0.18	
8.834	17098	12500	0.731	0.02	
8.943	24493	15835	0.646	0.04	
8.991	20039	18198	0.908	0.03	
9.032	9407	8220	0.874	0.01	
9.055	17217	14426	0.838	0.03	
9.169	47247	40362	0.854	0.08	
9.281	11572	10143	0.877	0.02	
9.329	13146	12623	0.960	0.02	
9.405	13151	10635	0.809	0.02	
9.470	61009	26733	0.438	0.10	
9.542	17038	12962	0.761	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.573	11718	11850	1.011	0.02	
9.674	11626	12423	1.069	0.02	
9.697	36197	25789	0.712	0.06	
9.742	15460	16428	1.063	0.02	
9.965	19457	12244	0.629	0.03	
	57148413	49484254		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718054.D
Lab Smp Id: 40150295014 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 20:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295014,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.019	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	11110017	0.09011	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	239769	0.10234	51	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	206514	0.04976	25	0.00- 20.00	86.13	BA
4.812	4.812	0.000	169084	0.08329	42	0.00- 20.00	70.52	BA
4.879	4.879	0.000	532299	0.10567	53	0.00- 20.00	222.00	BA
5.036	5.038	-0.002	120808	0.03366	17	0.00- 20.00	50.39	BA
Average of Peak Concentrations =					37			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1036360	0.19796	99	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	318870	0.07414	37	0.00- 20.00	30.77	BA
5.509	5.510	-0.001	748400	0.09637	48	0.00- 20.00	72.21	BA
6.025	6.027	-0.002	482131	0.09901	49	0.00- 20.00	46.52	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					58			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2388537	0.26952	130	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1238840	0.12371	62	0.00- 20.00	51.87	BA
7.250	7.251	-0.001	484023	0.10126	50	0.00- 20.00	20.26	BA
7.441	7.443	-0.002	550735	0.18892	94	0.00- 20.00	23.06	BA
7.900	7.901	-0.001	438395	0.16614	83	0.00- 20.00	18.35	BA
Average of Peak Concentrations =					85			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10278341	0.09381	47			

QC Flag Legend

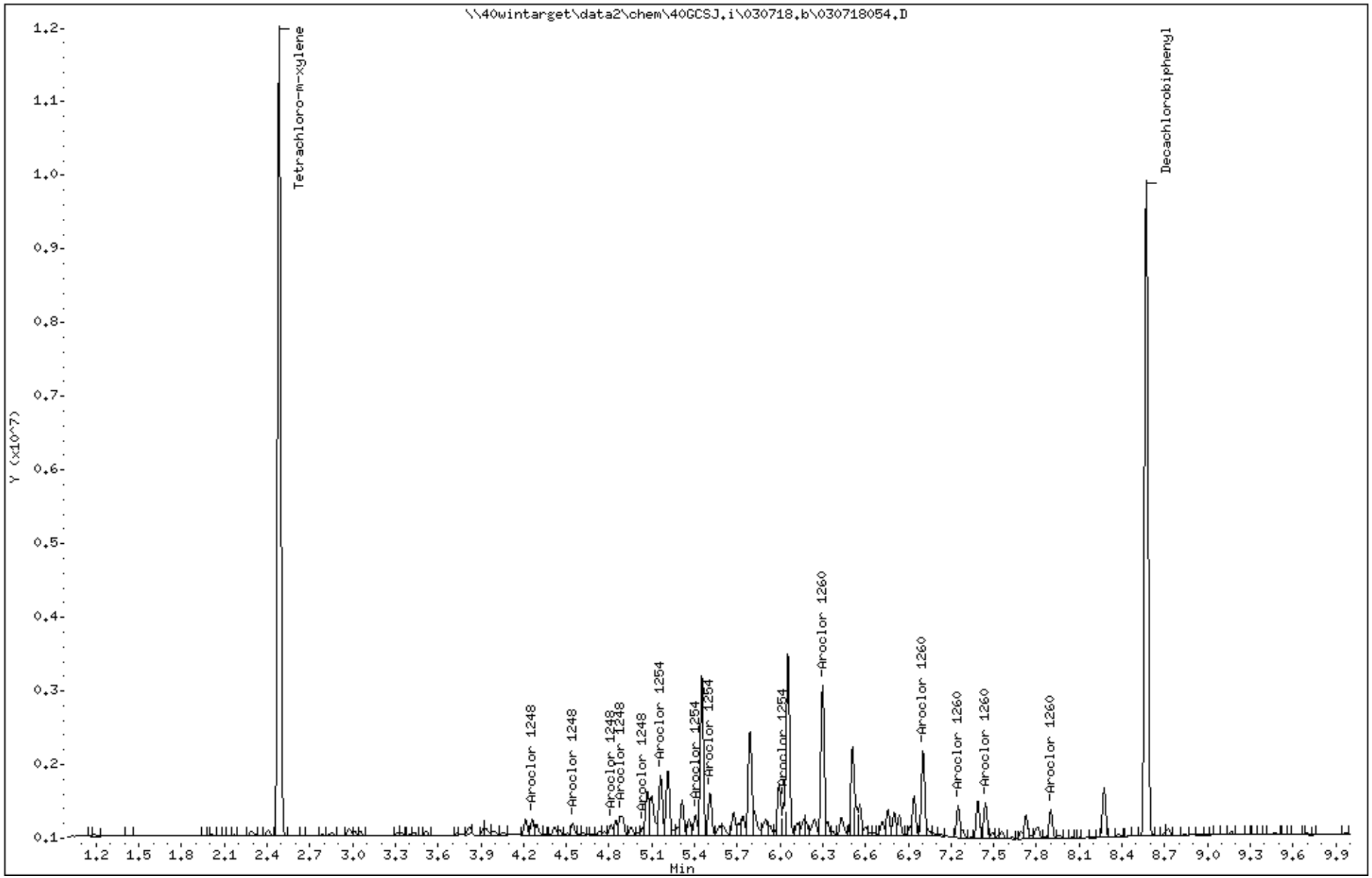
M - Compound response manually integrated.

Review Codes Legend

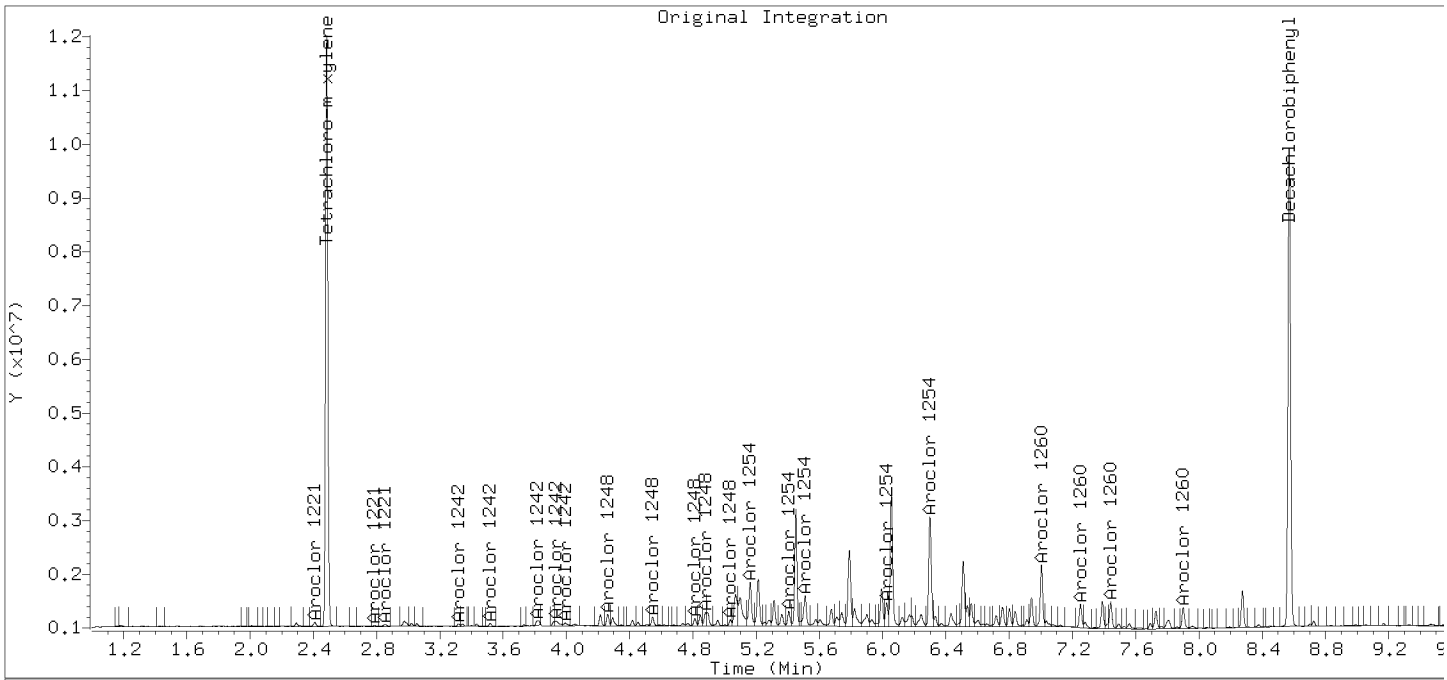
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

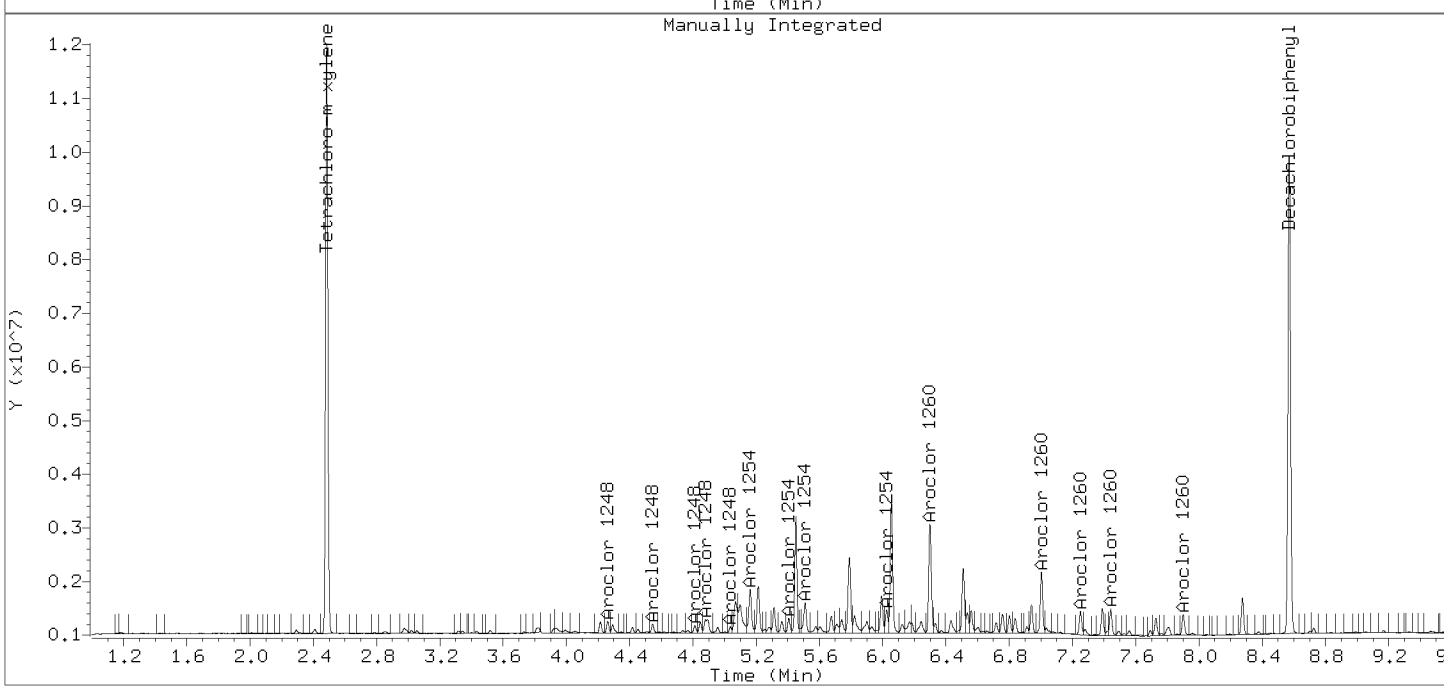
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718054.D
Date : 07-MAR-2018 20:09
Client ID: CS1-170518-01-STB-0
Sample Info: 40150295014,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718054.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 20:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	49208	0	
Aroclor 1016	49208	0	
Aroclor 1016	49208	0	
Aroclor 1016	49208	0	
Aroclor 1016	49208	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	64306	0	
Aroclor 1232	64306	0	
Aroclor 1232	64306	0	
Aroclor 1232	64306	0	

Aroclor 1232	64306	0	
Aroclor 1242	49208	0	
Aroclor 1242	49208	0	
Aroclor 1242	49208	0	
Aroclor 1242	49208	0	
Aroclor 1242	49208	0	
Aroclor 1248	221986	239769	BA
Aroclor 1248	221986	239769	BA
Aroclor 1248	221986	239769	BA
Aroclor 1248	221986	239769	BA
Aroclor 1248	221986	239769	BA
Aroclor 1254	1030253	1036360	BA
Aroclor 1254	1030253	1036360	BA
Aroclor 1254	1030253	1036360	BA
Aroclor 1254	1030253	1036360	BA
Aroclor 1254	1030253	1036360	BA
Aroclor 1260	2408250	2388537	BA
Aroclor 1260	2408250	2388537	BA
Aroclor 1260	2408250	2388537	BA
Aroclor 1260	2408250	2388537	BA
Aroclor 1260	2408250	2388537	BA
Tetrachloro-m-xylene	11110017	11110017	
Decachlorobiphenyl	10278341	10278341	

==========

SAMPLE NO.

CS1-170518-01-STB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295015
Date Analyzed: 03/07/2018 20:57
Lab File ID: 030718.B\030718060.D
Initial wt/vol: 9.9684 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)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	255	
11097-69-1	PCB-1254 (Aroclor 1254)	265	
11096-82-5	PCB-1260 (Aroclor 1260)	296	
1336-36-3	PCB, Total	815	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718060.D
Lab Smp Id: 40150295015 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 20:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295015 x2,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 60
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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.682	12912	10686	0.828	0.01		
1.869	9571	5838	0.610	0.01		
2.171	12227	11137	0.911	0.01		
2.295	18364	20401	1.111	0.02		
2.360	14279	11224	0.786	0.01		
2.408	54549	45478	0.834	0.07		
2.484	5312884	5227919	0.984	8.04	$ 2 Tetrachloro-m-xylene	
2.788	18558	15319	0.825	0.02		
2.851	35310	23007	0.652	0.04		
2.973	54553	31929	0.585	0.07		
3.020	49585	49844	1.005	0.06		
3.055	51698	45241	0.875	0.07		
3.317	105957	102345	0.966	0.14		
3.344	116445	114249	0.981	0.16		
3.433	80212	69136	0.862	0.11		
3.517	142543	124406	0.873	0.19		
3.643	10225	9765	0.955	0.01		
3.731	119861	118489	0.989	0.16		
3.756	63861	60479	0.947	0.08		
3.826	686616	423521	0.617	0.96		
3.937	145519	104208	0.716	0.20		
3.994	131426	120577	0.917	0.18		
4.057	82249	62110	0.755	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	28969	24390	0.842	0.04	
4.214	862952	825672	0.957	1.20	
4.261	969370	954559	0.985	1.35	6 Aroclor 1248
4.292	920749	736814	0.800	1.28	
4.349	47182	36032	0.764	0.06	
4.417	476901	463339	0.972	0.66	
4.452	336793	304685	0.905	0.47	
4.545	747186	717917	0.961	1.04	6 Aroclor 1248
4.589	52760	46653	0.884	0.07	
4.617	130129	111738	0.859	0.18	
4.681	85371	70417	0.825	0.11	
4.737	163097	129640	0.795	0.22	
4.768	102168	91575	0.896	0.14	
4.812	473495	463257	0.978	0.66	6 Aroclor 1248
4.847	549448	540921	0.984	0.76	
4.879	1663402	861255	0.518	2.32	6 Aroclor 1248
4.957	415939	349038	0.839	0.58	
5.003	79848	74919	0.938	0.11	
5.036	400372	394160	0.984	0.55	6 Aroclor 1248
5.059	168090	165662	0.986	0.23	
5.100	978991	763018	0.779	1.36	
5.162	1970089	1709096	0.868	2.75	7 Aroclor 1254
5.213	1993952	1776241	0.891	2.78	
5.253	155842	150689	0.967	0.21	
5.284	222503	203728	0.916	0.31	
5.313	855747	819081	0.957	1.19	
5.362	554918	540023	0.973	0.77	
5.407	813600	755189	0.928	1.13	7 Aroclor 1254
5.451	4083256	4049748	0.992	5.71	
5.478	155084	190677	1.230	0.21	
5.509	1945264	1737572	0.893	2.72	7 Aroclor 1254
5.577	237108	204525	0.863	0.33	
5.604	241419	186925	0.774	0.33	
5.674	766938	722287	0.942	1.07	
5.712	405199	270919	0.669	0.56	
5.743	547583	392184	0.716	0.76	
5.789	3382159	2852143	0.843	4.73	
5.822	569068	527291	0.927	0.79	
5.899	593682	390660	0.658	0.83	
5.931	162284	141968	0.875	0.22	
5.964	41769	43226	1.035	0.05	
5.993	1004297	929359	0.925	1.40	
6.025	1163646	1014523	0.872	1.62	7 Aroclor 1254
6.056	4432698	3943918	0.890	6.19	
6.168	885319	479417	0.542	1.23	
6.242	570633	298924	0.524	0.79	
6.298	4314711	3628962	0.841	6.03	8 Aroclor 1260
6.332	458133	434087	0.948	0.64	
6.374	101535	89748	0.884	0.14	
6.406	12534	15006	1.197	0.01	
6.432	471981	311998	0.661	0.66	
6.483	100173	86728	0.866	0.14	
6.509	1930486	1759752	0.912	2.70	
6.535	793160	782284	0.986	1.10	
6.560	881601	788529	0.894	1.23	
6.604	175665	156020	0.888	0.24	
6.634	59796	62596	1.047	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.661	105742	102981	0.974	0.14	
6.718	421835	384541	0.912	0.58	
6.756	610134	543663	0.891	0.85	
6.801	709836	661282	0.932	0.99	
6.838	343617	298501	0.869	0.48	
6.886	34425	37170	1.080	0.04	
6.913	115968	117139	1.010	0.16	
6.942	1337725	1263899	0.945	1.87	
7.004	2502024	2331774	0.932	3.49	8 Aroclor 1260
7.036	145105	154631	1.066	0.20	
7.055	127306	95990	0.754	0.17	
7.096	15736	18980	1.206	0.02	
7.122	39482	32446	0.822	0.05	
7.251	968124	886377	0.916	1.35	8 Aroclor 1260
7.280	273631	226349	0.827	0.38	
7.341	18367	17601	0.958	0.02	
7.389	721038	607153	0.842	1.00	
7.442	865434	761110	0.879	1.21	8 Aroclor 1260
7.495	84490	52149	0.617	0.11	
7.552	61165	43318	0.708	0.08	
7.621	34465	19506	0.566	0.04	
7.690	215897	184920	0.857	0.30	
7.726	259371	225601	0.870	0.36	
7.763	50785	43671	0.860	0.07	
7.812	322257	235214	0.730	0.45	
7.862	37311	27711	0.743	0.05	
7.899	624833	578459	0.926	0.87	8 Aroclor 1260
7.957	90445	53881	0.596	0.12	
8.046	38728	33384	0.862	0.05	
8.193	19485	12441	0.638	0.02	
8.275	567969	553686	0.975	0.79	
8.378	38504	34310	0.891	0.05	
8.452	28495	16014	0.562	0.03	
8.570	5300778	4578545	0.864	7.41	$ 12 Decachlorobiphenyl
8.704	21588	21883	1.014	0.03	
8.726	89319	79750	0.893	0.12	
8.990	11545	11119	0.963	0.01	
9.056	38320	34789	0.908	0.05	
9.169	55055	47293	0.859	0.07	
9.469	31888	17307	0.543	0.04	
9.539	10117	8382	0.828	0.01	
9.702	14726	15046	1.022	0.02	
9.737	29371	22160	0.754	0.04	
9.960	29858	19541	0.654	0.04	
	71498744	62890659		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718060.D
Lab Smp Id: 40150295015 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 20:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295015 x2,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 60
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	9.968	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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.483	2.484	-0.001	5312883	0.04309	43			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	969370	0.41373	420	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	747186	0.18003	180	0.00- 20.00	77.08	BA
4.811	4.812	-0.001	473494	0.23324	230	0.00- 20.00	48.85	BA
4.878	4.879	-0.001	1663401	0.33021	330	0.00- 20.00	171.60	BA
5.035	5.038	-0.003	400372	0.11157	110	0.00- 20.00	41.30	BA
		Average of Peak Concentrations =			250			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1970088	0.37631	380	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	813600	0.18916	190	0.00- 20.00	41.30	BA
5.508	5.510	-0.002	1945263	0.25048	250	0.00- 20.00	98.74	BA
6.025	6.027	-0.002	1163646	0.23896	240	0.00- 20.00	59.07	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			260			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4314711	0.48686	490	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	2502023	0.24984	250	0.00- 20.00	57.99	BA
7.250	7.251	-0.001	968123	0.20254	200	0.00- 20.00	22.44	BA
7.441	7.443	-0.002	865434	0.29688	300	0.00- 20.00	20.06	BA
7.899	7.901	-0.002	624832	0.23679	240	0.00- 20.00	14.48	BA
		Average of Peak Concentrations =			300			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5300777	0.04838	48			

QC Flag Legend

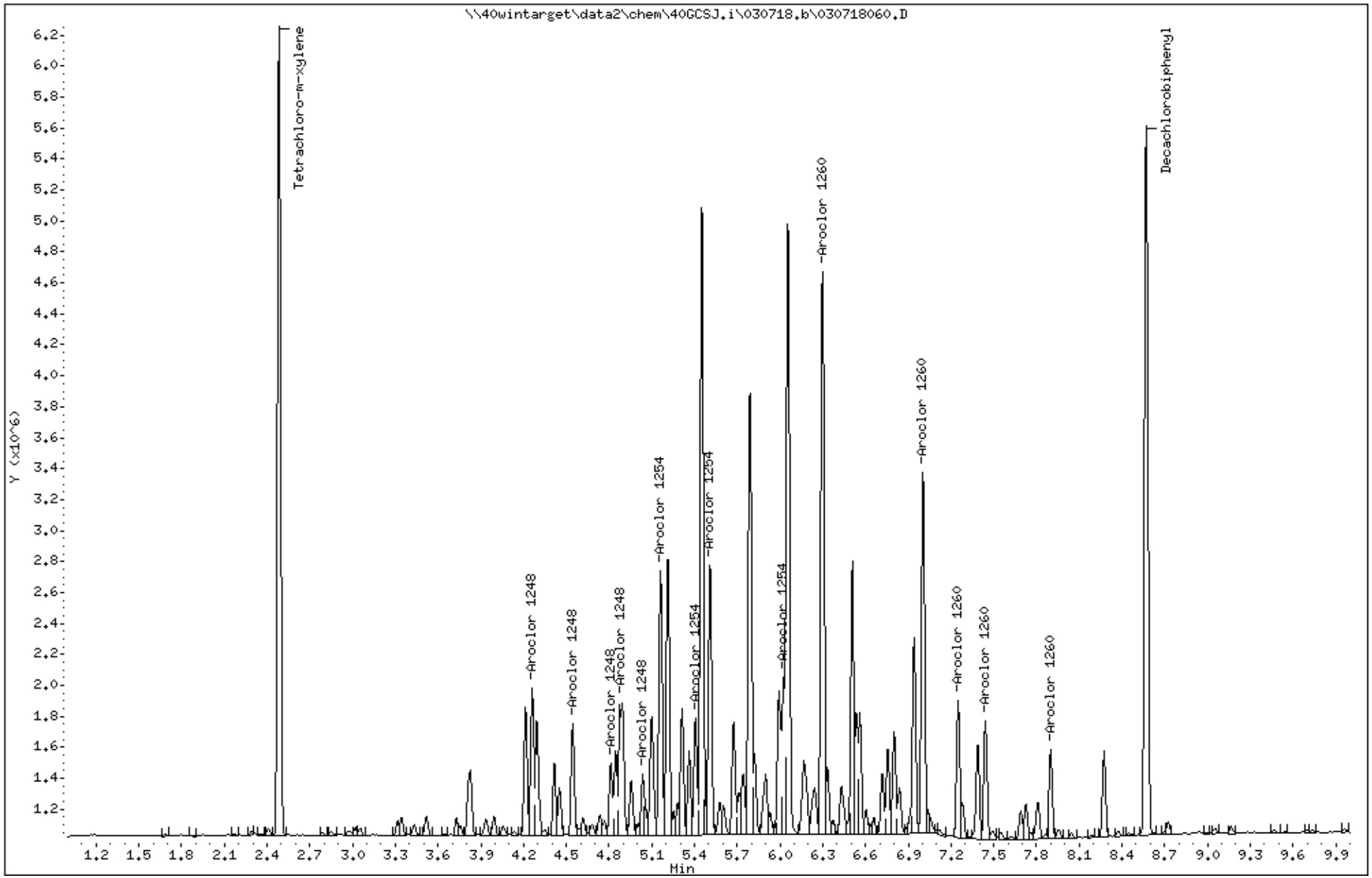
M - Compound response manually integrated.

Review Codes Legend

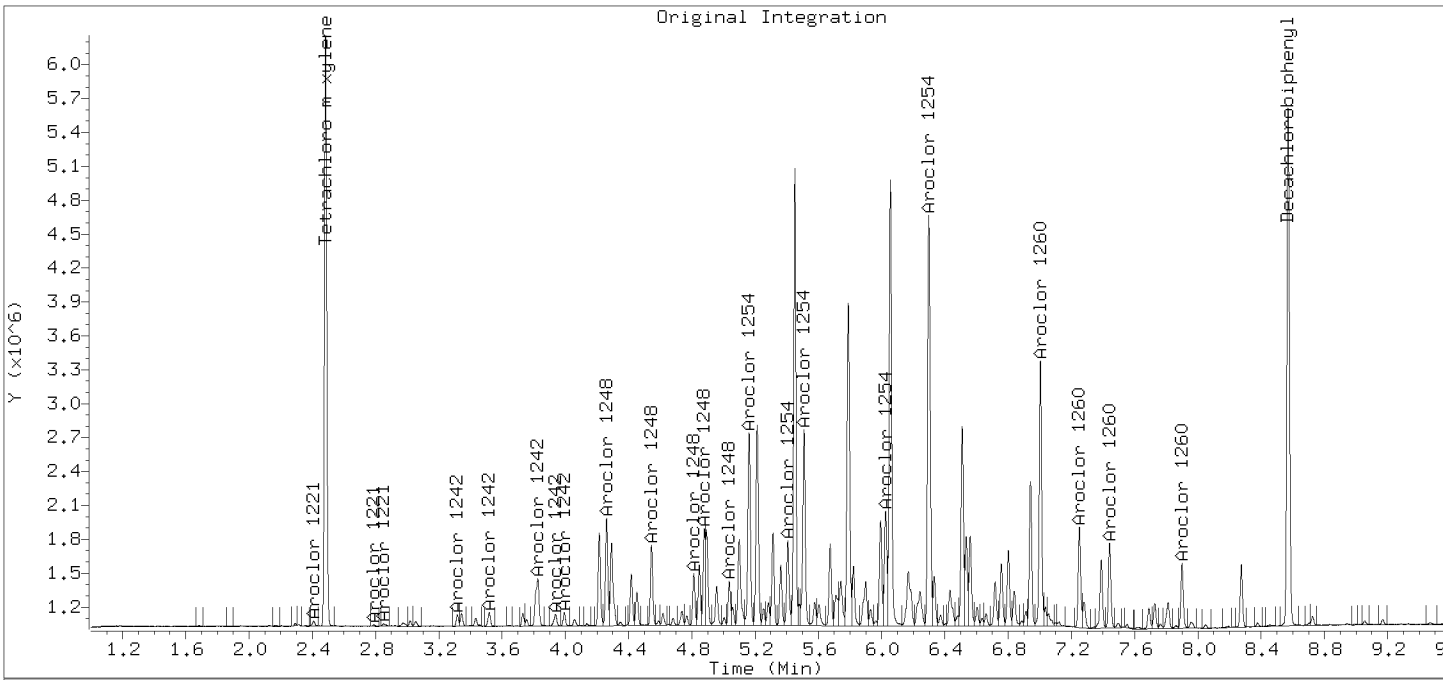
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

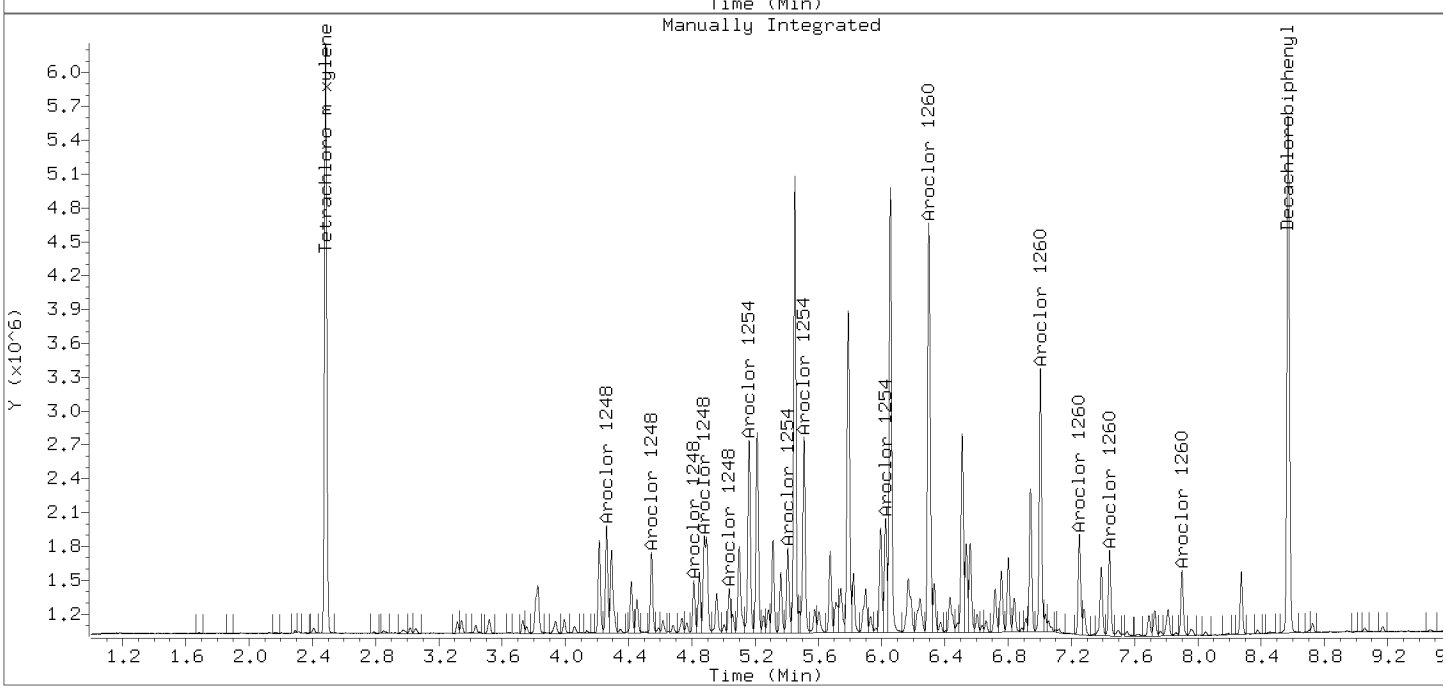
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718060.D
Date : 07-MAR-2018 20:57
Client ID: CS1-170518-01-STB-0
Sample Info: 40150295015 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718060.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 20:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	105957	0	
Aroclor 1016	105957	0	
Aroclor 1016	105957	0	
Aroclor 1016	105957	0	
Aroclor 1016	105957	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	35310	0	
Aroclor 1232	35310	0	
Aroclor 1232	35310	0	
Aroclor 1232	35310	0	

Aroclor 1232	35310	0	
Aroclor 1242	105957	0	
Aroclor 1242	105957	0	
Aroclor 1242	105957	0	
Aroclor 1242	105957	0	
Aroclor 1242	105957	0	
Aroclor 1248	958343	969370	BA
Aroclor 1248	958343	969370	BA
Aroclor 1248	958343	969370	BA
Aroclor 1248	958343	969370	BA
Aroclor 1248	958343	969370	BA
Aroclor 1254	1959126	1970088	BA
Aroclor 1254	1959126	1970088	BA
Aroclor 1254	1959126	1970088	BA
Aroclor 1254	1959126	1970088	BA
Aroclor 1254	1959126	1970088	BA
Aroclor 1260	4327143	4314711	BA
Aroclor 1260	4327143	4314711	BA
Aroclor 1260	4327143	4314711	BA
Aroclor 1260	4327143	4314711	BA
Aroclor 1260	4327143	4314711	BA
Tetrachloro-m-xylene	5312883	5312883	
Decachlorobiphenyl	5300777	5300777	

==========

SAMPLE NO.

CS1-170518-01-STB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295016
Date Analyzed: 03/07/2018 21:13
Lab File ID: 030718.B\030718062.D
Initial wt/vol: 10.0135 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	59.4	
11097-69-1	PCB-1254 (Aroclor 1254)	57.3	
11096-82-5	PCB-1260 (Aroclor 1260)	75.2	
1336-36-3	PCB, Total	192	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718062.D
Lab Smp Id: 40150295016 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 21:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295016,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 62
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.076	28215	24196	0.858	0.05		
1.106	42324	41784	0.987	0.07		
1.160	37571	27927	0.743	0.06		
1.317	15470	14506	0.938	0.02		
1.427	9504	11482	1.208	0.01		
1.538	14672	10296	0.702	0.02		
1.770	37421	38136	1.019	0.06		
1.803	12750	11615	0.911	0.02		
1.949	35059	25800	0.736	0.06		
2.060	16628	12611	0.758	0.03		
2.127	18549	11724	0.632	0.03		
2.167	15014	14788	0.985	0.02		
2.293	17007	17754	1.044	0.03		
2.316	23545	23916	1.016	0.04		
2.357	23374	19601	0.839	0.04		
2.408	194373	177435	0.913	0.35		
2.485	11120233	11077568	0.996	21.01	$ 2 Tetrachloro-m-xylene	
2.642	15297	10537	0.689	0.02		
2.785	34707	27574	0.794	0.06		
2.851	79160	41682	0.527	0.14		
2.915	23576	13683	0.580	0.04		
2.975	296922	181641	0.612	0.54		
3.019	80484	82686	1.027	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.055	103875	78890	0.759	0.18	
3.165	10408	10520	1.011	0.01	
3.251	13129	13252	1.009	0.02	
3.317	114573	116738	1.019	0.20	
3.344	132080	121334	0.919	0.24	
3.399	10376	11591	1.117	0.01	
3.432	116648	102632	0.880	0.21	
3.518	155109	143027	0.922	0.28	
3.644	13341	13493	1.011	0.02	
3.732	94861	92831	0.979	0.17	
3.755	49694	47290	0.952	0.09	
3.817	432329	262340	0.607	0.78	
3.939	135659	99211	0.731	0.24	
3.993	89335	81542	0.913	0.16	
4.059	67979	52189	0.768	0.12	
4.137	34365	24657	0.717	0.06	
4.214	503677	470148	0.933	0.91	
4.261	504450	506359	1.004	0.92	6 Aroclor 1248
4.292	385769	308184	0.799	0.70	
4.349	39959	31433	0.787	0.07	
4.417	271236	256059	0.944	0.49	
4.453	166874	153582	0.920	0.30	
4.505	22119	13270	0.600	0.04	
4.544	385071	356920	0.927	0.70	6 Aroclor 1248
4.588	23958	25716	1.073	0.04	
4.618	73471	64699	0.881	0.13	
4.655	15861	16808	1.060	0.02	
4.678	39824	30592	0.768	0.07	
4.737	82027	67950	0.828	0.14	
4.767	48745	47314	0.971	0.08	
4.813	180957	172199	0.952	0.33	6 Aroclor 1248
4.847	311433	292960	0.941	0.56	
4.894	726670	429233	0.591	1.32	6 Aroclor 1248
4.957	212314	172175	0.811	0.38	
5.004	40896	38305	0.937	0.07	
5.037	189597	187645	0.990	0.34	6 Aroclor 1248
5.058	101994	89789	0.880	0.18	
5.099	569099	439552	0.772	1.03	
5.161	891734	780579	0.875	1.62	7 Aroclor 1254
5.213	946334	856196	0.905	1.72	
5.253	93867	90796	0.967	0.17	
5.281	124916	107286	0.859	0.22	
5.314	575019	550099	0.957	1.04	
5.364	268539	239227	0.891	0.48	
5.407	314138	294392	0.937	0.57	7 Aroclor 1254
5.451	2291036	2255888	0.985	4.17	
5.478	63410	94175	1.485	0.11	
5.510	872044	724606	0.831	1.59	7 Aroclor 1254
5.577	125292	106321	0.849	0.22	
5.604	135760	98016	0.722	0.24	
5.675	339879	302791	0.891	0.61	
5.710	250798	192189	0.766	0.45	
5.742	300709	212731	0.707	0.54	
5.789	1614498	1330509	0.824	2.94	
5.822	466072	422183	0.906	0.85	
5.900	329857	229562	0.696	0.60	
5.932	99960	85945	0.860	0.18	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.965	45202	45205	1.000	0.08	
5.993	607002	572062	0.942	1.10	
6.025	503530	438879	0.872	0.91	7 Aroclor 1254
6.056	2301703	2120672	0.921	4.19	
6.169	236749	172157	0.727	0.43	
6.185	163068	171480	1.052	0.29	
6.245	363031	225314	0.621	0.66	
6.299	2102036	1775356	0.845	3.83	8 Aroclor 1260
6.333	170144	155316	0.913	0.31	
6.372	51551	49214	0.955	0.09	
6.432	282794	207752	0.735	0.51	
6.486	39763	45797	1.152	0.07	
6.509	1128013	1074236	0.952	2.05	
6.535	358575	331950	0.926	0.65	
6.561	385409	345473	0.896	0.70	
6.594	178103	97788	0.549	0.32	
6.661	35614	34448	0.967	0.06	
6.718	229898	190660	0.829	0.41	
6.757	352381	305642	0.867	0.64	
6.801	282398	253797	0.899	0.51	
6.839	231725	208721	0.901	0.42	
6.912	85717	85844	1.001	0.15	
6.942	475756	470873	0.990	0.86	
7.004	1042492	952506	0.914	1.90	8 Aroclor 1260
7.037	84970	78039	0.918	0.15	
7.079	26890	21971	0.817	0.04	
7.122	36575	26470	0.724	0.06	
7.251	415245	366378	0.882	0.75	8 Aroclor 1260
7.281	148271	101743	0.686	0.27	
7.341	41908	24352	0.581	0.07	
7.389	428488	393430	0.918	0.78	
7.419	87481	105657	1.208	0.15	
7.442	497708	413904	0.832	0.90	8 Aroclor 1260
7.492	110488	79066	0.716	0.20	
7.526	54050	41725	0.772	0.09	
7.561	181054	126489	0.699	0.33	
7.625	46038	29620	0.643	0.08	
7.664	13155	18313	1.392	0.02	
7.692	89535	84651	0.945	0.16	
7.728	288015	257377	0.894	0.52	
7.765	42879	34188	0.797	0.07	
7.810	241729	139866	0.579	0.44	
7.861	47664	31974	0.671	0.08	
7.901	407471	329432	0.808	0.74	8 Aroclor 1260
7.958	79887	36814	0.461	0.14	
8.014	8376	9104	1.087	0.01	
8.046	27464	23451	0.854	0.05	
8.275	612860	575568	0.939	1.11	
8.375	43616	31367	0.719	0.07	
8.447	19246	17417	0.905	0.03	
8.571	10000928	9140437	0.914	18.24	$ 12 Decachlorobiphenyl
8.701	34152	29859	0.874	0.06	
8.725	89658	76918	0.858	0.16	
8.836	10497	9159	0.873	0.01	
8.993	21091	16342	0.775	0.03	
9.055	20166	18171	0.901	0.03	
9.171	51222	43066	0.841	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.288	9888	8472	0.857	0.01	
9.467	19392	13736	0.708	0.03	
9.700	20227	18954	0.937	0.03	
9.736	28491	25044	0.879	0.05	
9.976	16076	11395	0.709	0.02	
	54820987	49475923		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718062.D
Lab Smp Id: 40150295016 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 21:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295016,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 62
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11120232	0.09019	45			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	504449	0.21530	110	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	385071	0.09278	46	0.00- 20.00	76.33	BA
4.812	4.812	0.000	180957	0.08914	44	0.00- 20.00	35.87	BA
4.893	4.879	0.014	726670	0.14425	72	0.00- 20.00	144.05	BA
5.036	5.038	-0.002	189596	0.05283	26	0.00- 20.00	37.58	BA
Average of Peak Concentrations =					59			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	891734	0.17033	85	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	314138	0.07304	36	0.00- 20.00	35.23	BA
5.509	5.510	-0.001	872044	0.11229	56	0.00- 20.00	97.79	BA
6.024	6.027	-0.003	503530	0.10340	52	0.00- 20.00	56.47	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					57			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	2102035	0.23719	120	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1042491	0.10410	52	0.00- 20.00	49.59	BA
7.251	7.251	0.000	415245	0.08687	43	0.00- 20.00	19.75	BA
7.441	7.443	-0.002	497707	0.17073	85	0.00- 20.00	23.68	BA
7.900	7.901	-0.001	407471	0.15442	77	0.00- 20.00	19.38	BA
Average of Peak Concentrations =					75			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10000927	0.09128	46			

QC Flag Legend

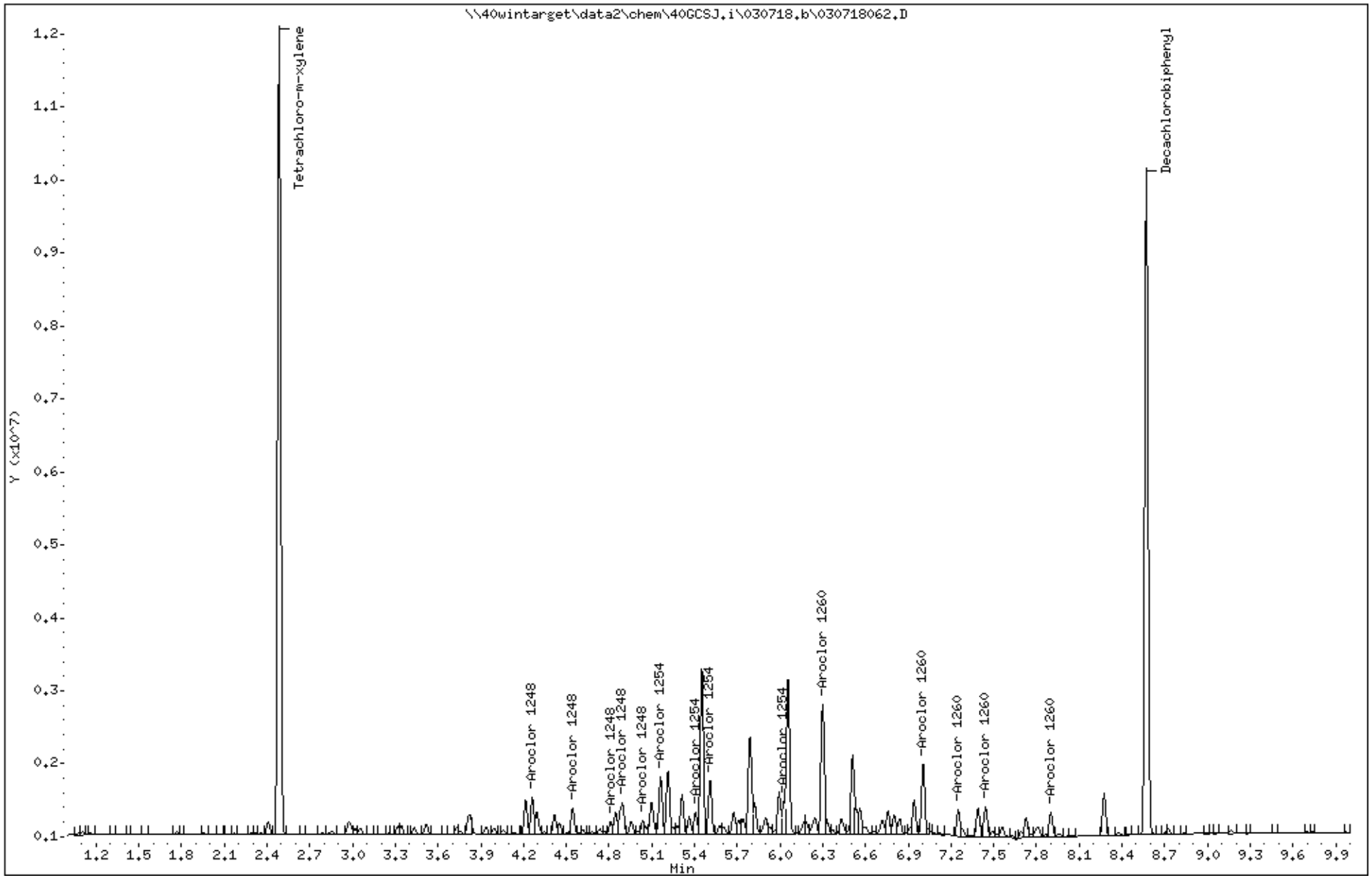
M - Compound response manually integrated.

Review Codes Legend

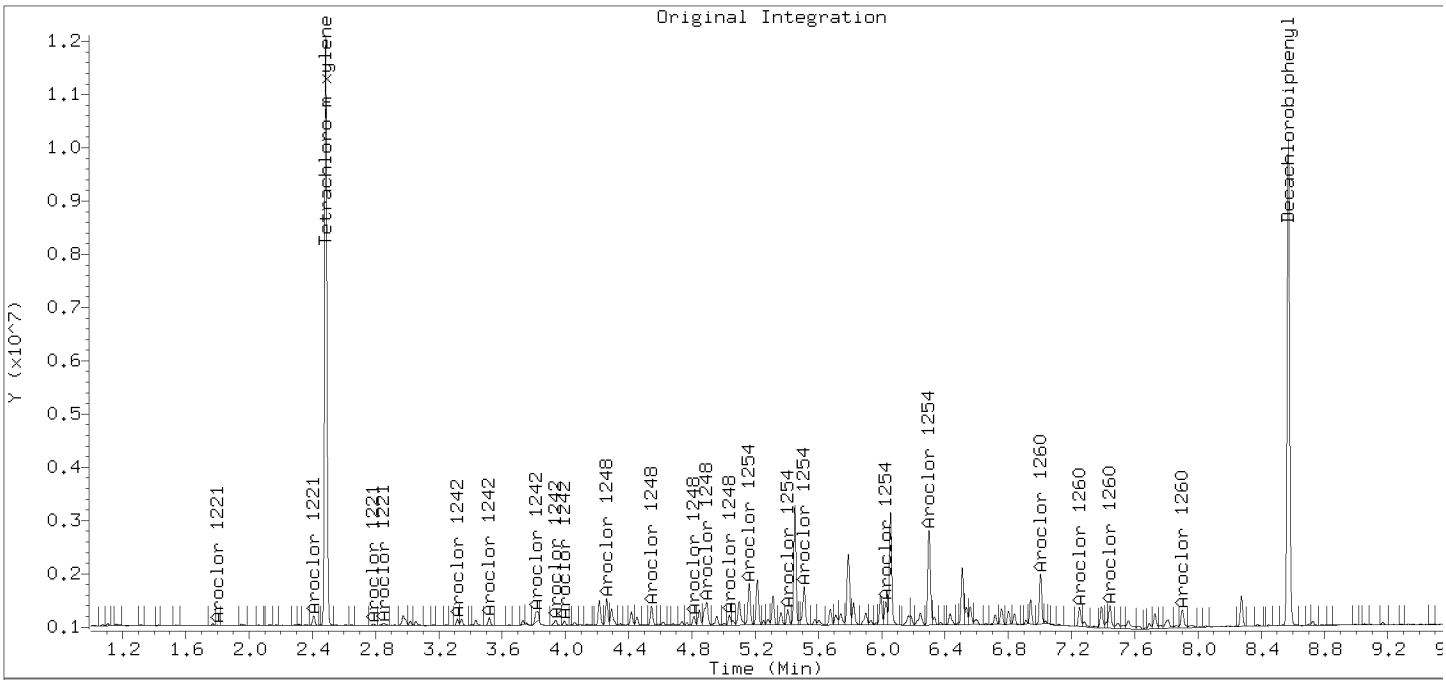
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

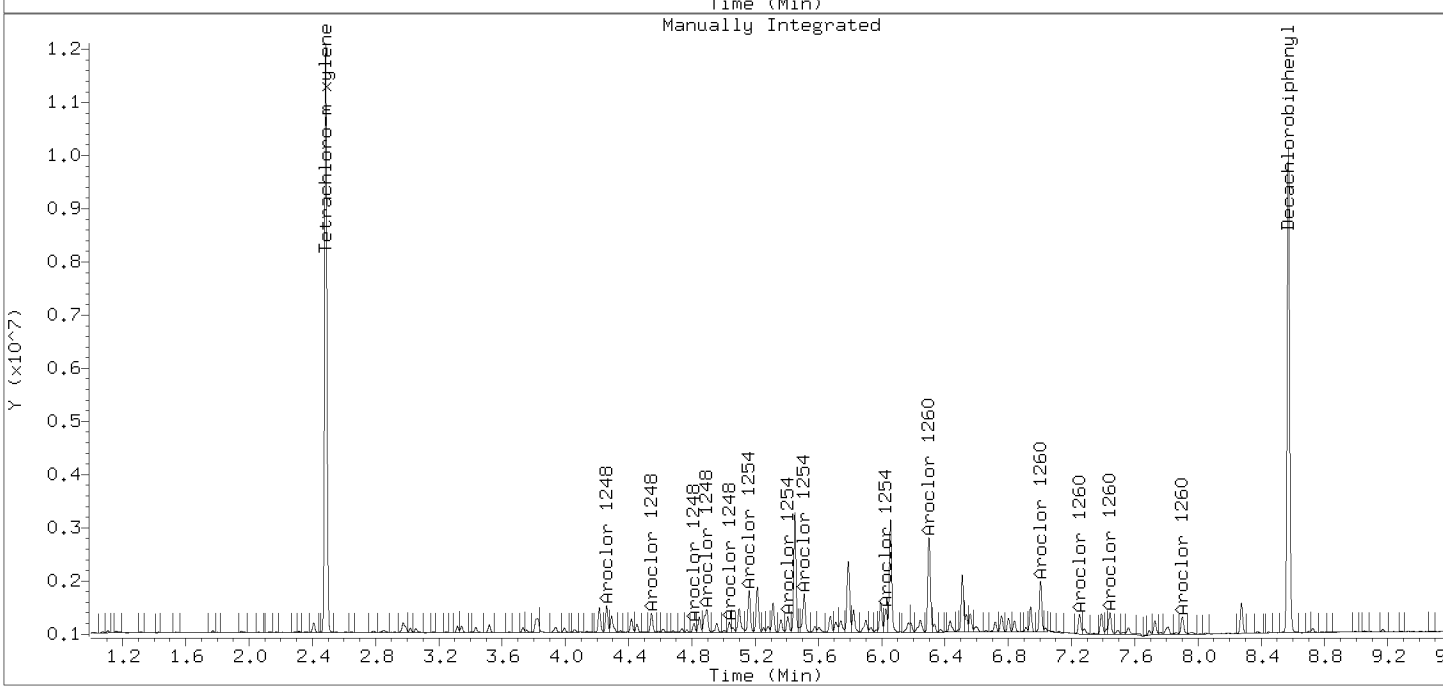
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718062.D
Date : 07-MAR-2018 21:13
Client ID: CS1-170518-01-STB-0
Sample Info: 40150295016,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718062.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 21:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	114573	0	
Aroclor 1016	114573	0	
Aroclor 1016	114573	0	
Aroclor 1016	114573	0	
Aroclor 1016	114573	0	
Aroclor 1221	12750	0	
Aroclor 1221	12750	0	
Aroclor 1221	12750	0	
Aroclor 1221	12750	0	
Aroclor 1221	12750	0	
Aroclor 1232	79160	0	
Aroclor 1232	79160	0	
Aroclor 1232	79160	0	
Aroclor 1232	79160	0	

Aroclor 1232	79160	0	
Aroclor 1242	114573	0	
Aroclor 1242	114573	0	
Aroclor 1242	114573	0	
Aroclor 1242	114573	0	
Aroclor 1242	114573	0	
Aroclor 1248	498642	504449	BA
Aroclor 1248	498642	504449	BA
Aroclor 1248	498642	504449	BA
Aroclor 1248	498642	504449	BA
Aroclor 1248	498642	504449	BA
Aroclor 1254	877373	891734	BA
Aroclor 1254	877373	891734	BA
Aroclor 1254	877373	891734	BA
Aroclor 1254	877373	891734	BA
Aroclor 1254	877373	891734	BA
Aroclor 1260	2101444	2102035	BA
Aroclor 1260	2101444	2102035	BA
Aroclor 1260	2101444	2102035	BA
Aroclor 1260	2101444	2102035	BA
Aroclor 1260	2101444	2102035	BA
Tetrachloro-m-xylene	11120232	11120232	
Decachlorobiphenyl	10000927	10000927	

==========

SAMPLE NO.

CS1-170518-01-STB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295017
Date Analyzed: 03/07/2018 21:29
Lab File ID: 030718.B\030718064.D
Initial wt/vol: 10.0128 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	33.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	57.0	
11096-82-5	PCB-1260 (Aroclor 1260)	159	
1336-36-3	PCB, Total	249	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718064.D
Lab Smp Id: 40150295017 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 21:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295017,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 64
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	10.013	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	13123	9968	0.760	0.01		
1.183	71661	57111	0.797	0.10		
2.009	39206	29566	0.754	0.05		
2.127	13067	10583	0.810	0.01		
2.171	10392	11403	1.097	0.01		
2.293	52075	46864	0.900	0.07		
2.408	60075	45453	0.757	0.08		
2.484	9491832	9481133	0.999	14.14	$ 2 Tetrachloro-m-xylene	
2.788	23588	22080	0.936	0.03		
2.851	43853	29252	0.667	0.06		
2.975	63458	46647	0.735	0.09		
3.022	55485	49208	0.887	0.08		
3.056	58429	51452	0.881	0.08		
3.318	47065	46620	0.991	0.07	5 Aroclor 1016	BA
3.344	48870	48648	0.995	0.07		
3.400	10328	10909	1.056	0.01		
3.434	60729	51545	0.849	0.09		
3.519	79789	66074	0.828	0.11	5 Aroclor 1016	BA
3.731	35088	33527	0.956	0.05		
3.756	16048	15328	0.955	0.02		
3.823	169000	92179	0.545	0.25	5 Aroclor 1016	BA
3.937	62979	40127	0.637	0.09	5 Aroclor 1016	BA
3.993	69617	50889	0.731	0.10	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.054	33204	23046	0.694	0.04	
4.138	15732	12404	0.788	0.02	
4.214	219528	185074	0.843	0.32	
4.262	219577	202317	0.921	0.32	6 Aroclor 1248
4.292	214566	163533	0.762	0.31	
4.346	36181	21241	0.587	0.05	
4.417	134666	107651	0.799	0.20	
4.454	103235	77044	0.746	0.15	
4.510	39678	21981	0.554	0.05	
4.544	179489	157075	0.875	0.26	6 Aroclor 1248
4.591	38153	28848	0.756	0.05	
4.615	61055	32094	0.526	0.09	
4.681	42855	35568	0.830	0.06	
4.738	74231	56761	0.765	0.11	
4.767	89454	67612	0.756	0.13	
4.813	140729	123033	0.874	0.20	6 Aroclor 1248
4.846	181145	166898	0.921	0.27	
4.880	503456	255498	0.507	0.75	6 Aroclor 1248
4.957	152405	115110	0.755	0.22	
5.003	30091	24932	0.829	0.04	
5.036	105232	97885	0.930	0.15	6 Aroclor 1248
5.060	107761	82796	0.768	0.16	
5.101	433145	304915	0.704	0.64	
5.162	973713	888243	0.912	1.45	7 Aroclor 1254
5.213	1269367	1142502	0.900	1.89	
5.253	56990	52273	0.917	0.08	
5.282	165404	136754	0.827	0.24	
5.312	399330	349874	0.876	0.59	
5.363	312076	260486	0.835	0.46	
5.407	308723	263017	0.852	0.46	7 Aroclor 1254
5.451	2772622	2636811	0.951	4.13	
5.509	786856	555919	0.707	1.17	7 Aroclor 1254
5.577	310404	229439	0.739	0.46	
5.604	168090	117700	0.700	0.25	
5.675	505280	464110	0.919	0.75	
5.711	208676	159235	0.763	0.31	
5.741	514875	384545	0.747	0.76	
5.790	2259772	1862938	0.824	3.36	
5.821	377723	232951	0.617	0.56	
5.900	242122	159343	0.658	0.36	
5.931	169542	143727	0.848	0.25	
5.964	31135	35465	1.139	0.04	
5.994	1403040	1265192	0.902	2.09	
6.026	475786	442308	0.930	0.70	7 Aroclor 1254
6.056	5460464	4940389	0.905	8.13	
6.124	53625	38834	0.724	0.07	
6.169	320208	250324	0.782	0.47	
6.184	236406	220276	0.932	0.35	
6.243	490555	281077	0.573	0.73	
6.299	4326540	3611518	0.835	6.44	8 Aroclor 1260
6.333	310146	297047	0.958	0.46	
6.374	70417	60384	0.858	0.10	
6.406	12175	13980	1.148	0.01	
6.431	521868	382694	0.733	0.77	
6.509	2541974	2254560	0.887	3.78	
6.535	730047	731370	1.002	1.08	
6.561	847675	773138	0.912	1.26	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.604	237519	210517	0.886	0.35	
6.659	68589	59361	0.865	0.10	
6.718	253820	226184	0.891	0.37	
6.758	548002	498833	0.910	0.81	
6.801	630975	615499	0.975	0.94	
6.838	529571	457190	0.863	0.78	
6.888	33526	37267	1.112	0.04	
6.913	239241	217820	0.910	0.35	
6.942	497842	484234	0.973	0.74	
7.004	2358326	2060494	0.874	3.51	8 Aroclor 1260
7.035	247136	193841	0.784	0.36	
7.076	49671	38930	0.784	0.07	
7.124	36951	28246	0.764	0.05	
7.251	953739	856689	0.898	1.42	8 Aroclor 1260
7.281	214109	182073	0.850	0.31	
7.341	16180	14416	0.891	0.02	
7.390	1080744	939396	0.869	1.61	
7.423	34729	58561	1.686	0.05	
7.442	1027669	943077	0.918	1.53	8 Aroclor 1260
7.492	119863	97771	0.816	0.17	
7.529	55068	49178	0.893	0.08	
7.553	70762	56161	0.794	0.10	
7.621	30176	17287	0.573	0.04	
7.690	231133	215147	0.931	0.34	
7.728	634008	553354	0.873	0.94	
7.765	62211	54601	0.878	0.09	
7.801	380928	226149	0.594	0.56	
7.864	28353	23671	0.835	0.04	
7.900	829426	748148	0.902	1.23	8 Aroclor 1260
7.957	116510	66497	0.571	0.17	
8.047	18478	16610	0.899	0.02	
8.104	12775	13227	1.035	0.01	
8.196	34275	23160	0.676	0.05	
8.275	1325821	1184049	0.893	1.97	
8.375	77515	62091	0.801	0.11	
8.448	19547	15784	0.807	0.02	
8.571	9889031	8435555	0.853	15.44	$ 12 Decachlorobiphenyl
8.704	59088	52589	0.890	0.08	
8.726	114841	96955	0.844	0.17	
8.838	11590	13216	1.140	0.01	
8.944	35734	25627	0.717	0.05	
8.992	32835	25529	0.777	0.04	
9.028	13439	13590	1.011	0.02	
9.057	11234	14613	1.301	0.01	
9.076	12636	13733	1.087	0.01	
9.092	23096	16009	0.693	0.03	
9.167	81377	67153	0.825	0.12	
9.223	19187	10148	0.529	0.02	
9.283	19640	14148	0.720	0.02	
9.328	20681	18347	0.887	0.03	
9.404	12482	11615	0.931	0.01	
9.466	50755	31216	0.615	0.07	
9.544	16682	13925	0.835	0.02	
9.671	11650	12321	1.058	0.01	
9.701	38941	38490	0.988	0.05	
9.737	54710	39402	0.720	0.08	
9.853	14775	12109	0.820	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.964	53367	25475	0.477	0.07	
	67087911	58895583		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718064.D
Lab Smp Id: 40150295017 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 21:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295017,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 64
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	10.013	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	9491831	0.07698		38		

---

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	219577	0.09372	47	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	179488	0.04325	22	0.00- 20.00	81.74	BA
4.812	4.812	0.000	140728	0.06932	35	0.00- 20.00	64.09	BA
4.879	4.879	0.000	503456	0.09994	50	0.00- 20.00	229.28	BA
5.036	5.038	-0.002	105231	0.02932	15	0.00- 20.00	47.92	BA
Average of Peak Concentrations =					34			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	973712	0.18599	93	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	308722	0.07178	36	0.00- 20.00	31.71	BA
5.509	5.510	-0.001	786856	0.10132	50	0.00- 20.00	80.81	BA
6.025	6.027	-0.002	475786	0.09770	49	0.00- 20.00	48.86	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					57			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4326540	0.48819	240	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	2358325	0.23549	120	0.00- 20.00	54.51	BA
7.251	7.251	0.000	953738	0.19953	100	0.00- 20.00	22.04	BA
7.441	7.443	-0.002	1027669	0.35253	180	0.00- 20.00	23.75	BA
7.899	7.901	-0.002	829426	0.31433	160	0.00- 20.00	19.17	BA
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	9889030	0.09026	45			

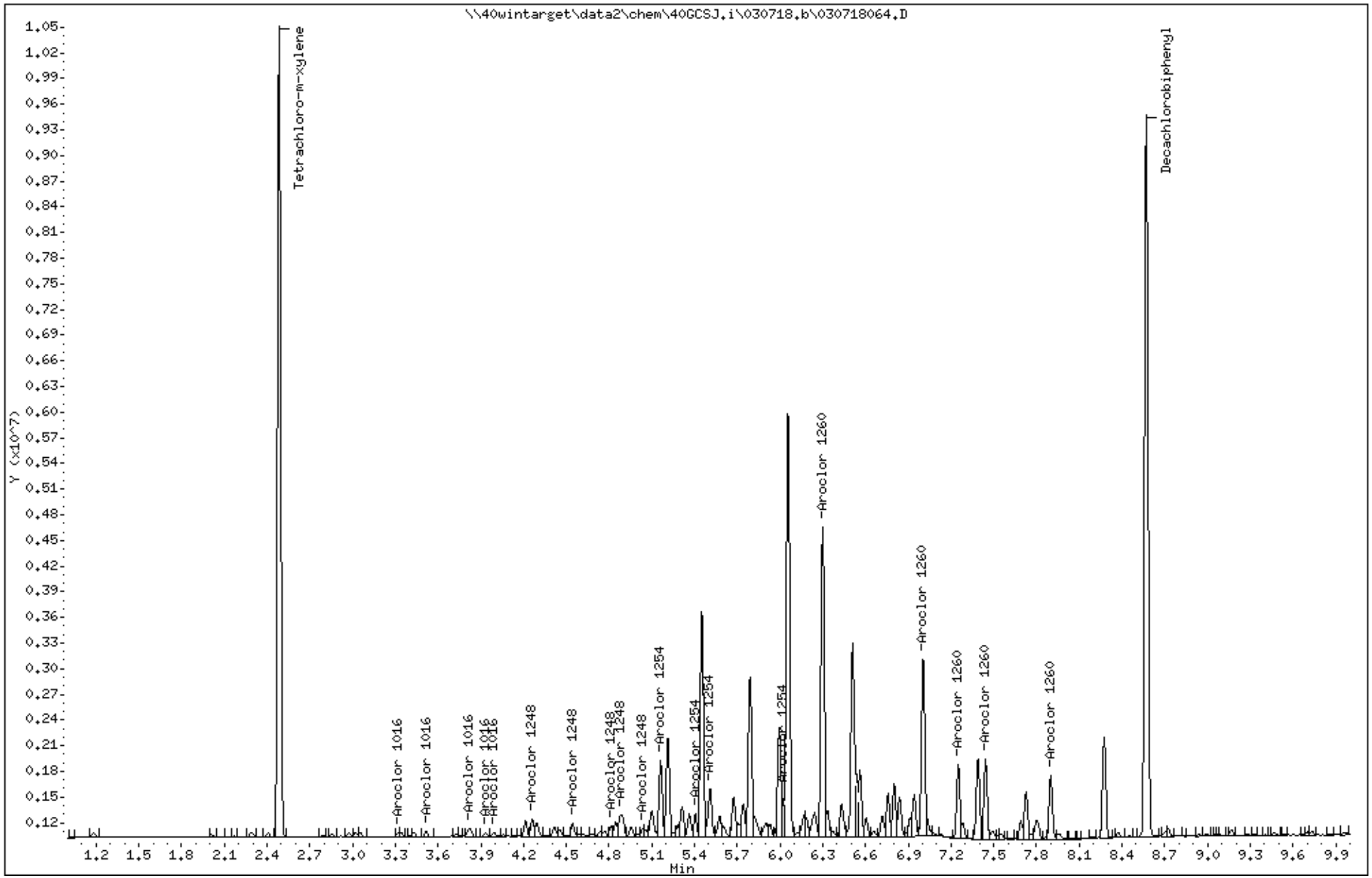
QC Flag Legend

M - Compound response manually integrated.

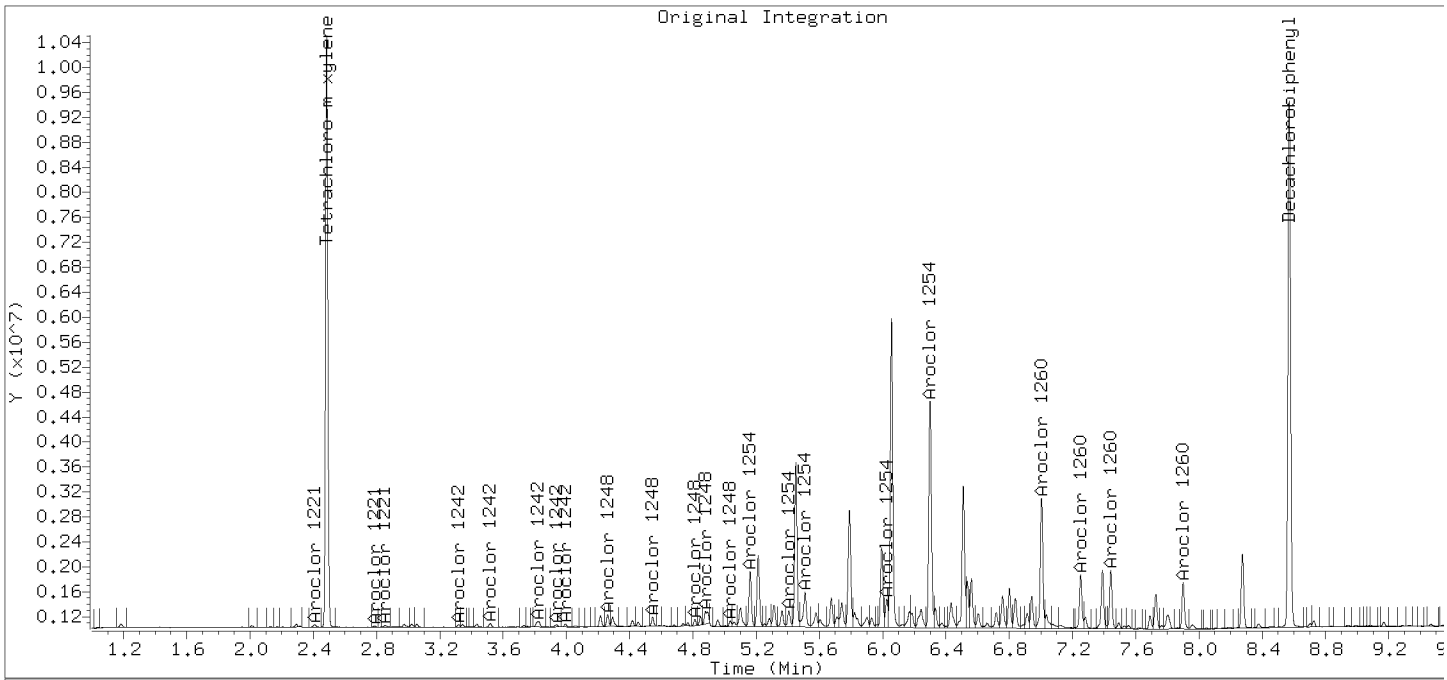
Review Codes Legend

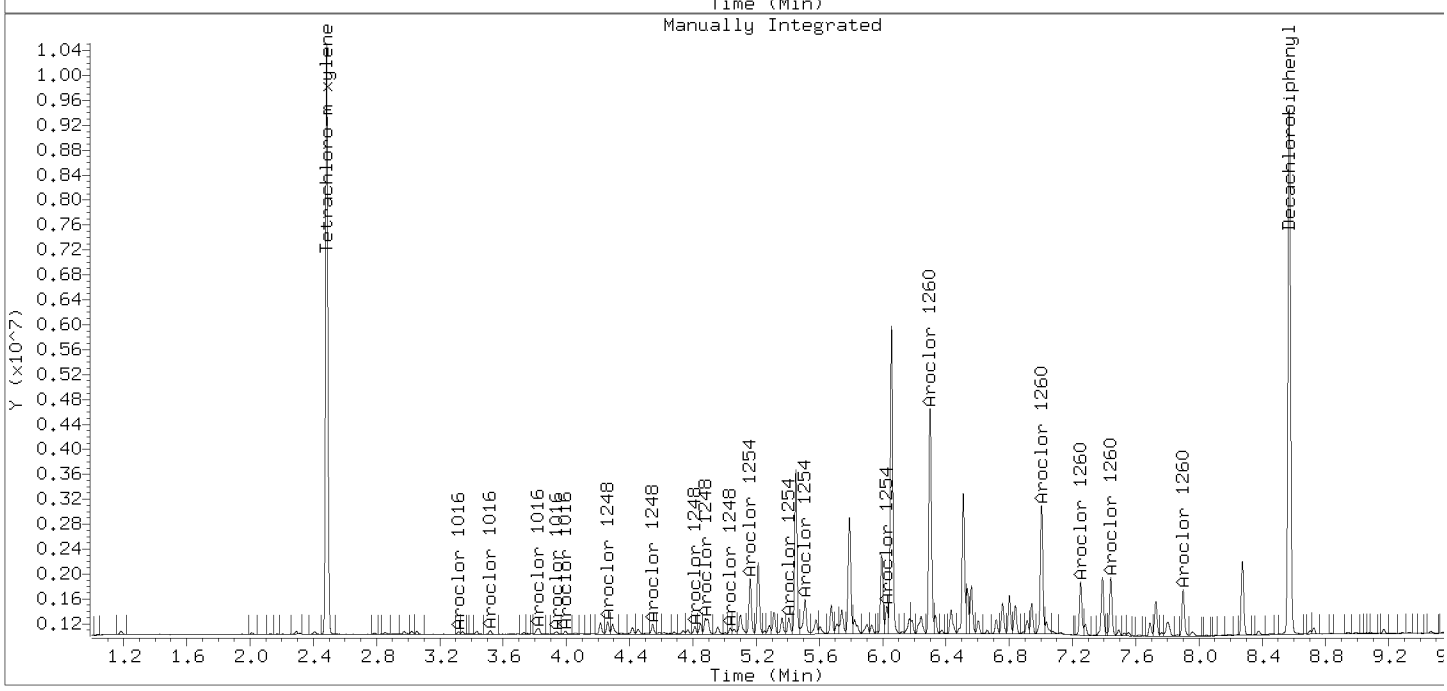
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718064.D
Date : 07-MAR-2018 21:29
Client ID: CS1-170518-01-STB-0
Instrument: 40GCSJ.i
Sample Info: 40150295017,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718064.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 21:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295017





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	43852	0	
Aroclor 1232	43852	0	
Aroclor 1232	43852	0	
Aroclor 1232	43852	0	

Aroclor 1232	43852	0	
Aroclor 1242	47064	0	
Aroclor 1242	47064	0	
Aroclor 1242	47064	0	
Aroclor 1242	47064	0	
Aroclor 1242	47064	0	
Aroclor 1248	192758	219577	BA
Aroclor 1248	192758	219577	BA
Aroclor 1248	192758	219577	BA
Aroclor 1248	192758	219577	BA
Aroclor 1248	192758	219577	BA
Aroclor 1254	952611	973712	BA
Aroclor 1254	952611	973712	BA
Aroclor 1254	952611	973712	BA
Aroclor 1254	952611	973712	BA
Aroclor 1254	952611	973712	BA
Aroclor 1260	4365463	4326540	BA
Aroclor 1260	4365463	4326540	BA
Aroclor 1260	4365463	4326540	BA
Aroclor 1260	4365463	4326540	BA
Aroclor 1260	4365463	4326540	BA
Tetrachloro-m-xylene	9491831	9491831	
Decachlorobiphenyl	9889030	9889030	

==========

SAMPLE NO.

CS1-170518-01-STB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/05/2018 07:12
Lab Sample ID: 40150295018
Date Analyzed: 03/07/2018 21:46
Lab File ID: 030718.B\030718066.D
Initial wt/vol: 9.9713 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)	75.2	
11097-69-1	PCB-1254 (Aroclor 1254)	55.6	
11096-82-5	PCB-1260 (Aroclor 1260)	63.7	
1336-36-3	PCB, Total	195	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718066.D
Lab Smp Id: 40150295018 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295018,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 66
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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.023	13059	8553	0.655	0.02		
1.103	11478	8649	0.754	0.02		
1.160	10682	12114	1.134	0.02		
1.183	47483	33903	0.714	0.09		
1.318	10505	7418	0.706	0.02		
1.428	15397	9797	0.636	0.02		
1.535	12731	10210	0.802	0.02		
1.952	19434	12851	0.661	0.03		
2.014	31031	22238	0.717	0.06		
2.167	10333	10263	0.993	0.02		
2.292	47100	34384	0.730	0.09		
2.411	125019	105150	0.841	0.24		
2.485	10426186	10189246	0.977	20.89	$ 2 Tetrachloro-m-xylene	
2.786	30540	28651	0.938	0.05		
2.851	66328	48876	0.737	0.12		
2.974	104176	51808	0.497	0.20		
3.020	83743	79104	0.945	0.16		
3.055	116820	101504	0.869	0.22		
3.317	165973	163051	0.982	0.32		
3.345	180937	173738	0.960	0.35		
3.395	9522	8942	0.939	0.01		
3.433	143923	131724	0.915	0.27		
3.520	220174	192524	0.874	0.42		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.645	11088	11525	1.039	0.02	
3.731	122638	122005	0.995	0.23	
3.755	62296	59807	0.960	0.12	
3.816	555695	317406	0.571	1.08	
3.938	169846	127856	0.753	0.33	
3.994	122585	111240	0.907	0.23	
4.057	101224	71621	0.708	0.19	
4.137	37971	35144	0.926	0.07	
4.215	611036	567338	0.928	1.18	
4.260	683655	667487	0.976	1.32	6 Aroclor 1248
4.292	586378	472461	0.806	1.14	
4.347	48705	32869	0.675	0.09	
4.418	340476	320772	0.942	0.66	
4.452	231791	211764	0.914	0.45	
4.545	521086	481116	0.923	1.01	6 Aroclor 1248
4.588	34889	33295	0.954	0.06	
4.617	115370	100861	0.874	0.22	
4.653	21370	23117	1.082	0.04	
4.681	53059	42553	0.802	0.10	
4.736	81744	61009	0.746	0.15	
4.768	69705	62463	0.896	0.13	
4.813	217933	200691	0.921	0.42	6 Aroclor 1248
4.846	288279	266950	0.926	0.56	
4.894	855231	500362	0.585	1.66	6 Aroclor 1248
4.956	267963	216800	0.809	0.52	
5.004	37593	33576	0.893	0.07	
5.036	199964	193333	0.967	0.38	6 Aroclor 1248
5.058	111558	104351	0.935	0.21	
5.100	571206	415985	0.728	1.11	
5.161	831414	743853	0.895	1.61	7 Aroclor 1254
5.213	853001	762532	0.894	1.65	
5.253	107752	100982	0.937	0.20	
5.283	105791	99107	0.937	0.20	
5.312	353971	319664	0.903	0.68	
5.362	267301	231526	0.866	0.51	
5.407	307660	273466	0.889	0.59	7 Aroclor 1254
5.451	2245162	2200429	0.980	4.36	
5.478	76254	101401	1.330	0.14	
5.509	911129	749767	0.823	1.77	7 Aroclor 1254
5.576	127452	96196	0.755	0.24	
5.604	137722	95217	0.691	0.26	
5.675	319712	290064	0.907	0.62	
5.710	215672	159071	0.738	0.41	
5.742	263687	199918	0.758	0.51	
5.788	1464305	1201698	0.821	2.84	
5.822	546331	494289	0.905	1.06	
5.900	246706	139540	0.566	0.47	
5.930	106302	87650	0.825	0.20	
5.993	530519	500701	0.944	1.03	
6.026	468008	411212	0.879	0.90	7 Aroclor 1254
6.055	1879568	1690841	0.900	3.65	
6.168	344710	159018	0.461	0.67	
6.244	297657	163948	0.551	0.57	
6.299	1813990	1576132	0.869	3.52	8 Aroclor 1260
6.333	141076	131187	0.930	0.27	
6.373	58127	46341	0.797	0.11	
6.432	269002	196159	0.729	0.52	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.510	985822	874370	0.887	1.91	
6.535	322979	312748	0.968	0.62	
6.561	339750	293912	0.865	0.66	
6.604	70157	60747	0.866	0.13	
6.658	48944	39715	0.811	0.09	
6.718	219746	194430	0.885	0.42	
6.757	336571	284783	0.846	0.65	
6.801	259128	230722	0.890	0.50	
6.839	214596	181555	0.846	0.41	
6.912	65195	66867	1.026	0.12	
6.942	320104	301792	0.943	0.62	
7.004	910968	850076	0.933	1.77	8 Aroclor 1260
7.036	53902	62282	1.155	0.10	
7.076	24101	12977	0.538	0.04	
7.121	39444	25559	0.648	0.07	
7.251	387099	347432	0.898	0.75	8 Aroclor 1260
7.281	127632	92769	0.727	0.24	
7.341	27285	20076	0.736	0.05	
7.390	381354	324892	0.852	0.74	
7.419	61772	76796	1.243	0.12	
7.443	410547	352028	0.857	0.79	8 Aroclor 1260
7.493	71005	48572	0.684	0.13	
7.525	28261	22620	0.800	0.05	
7.555	44190	28184	0.638	0.08	
7.620	28165	19734	0.701	0.05	
7.692	85867	79446	0.925	0.16	
7.727	202204	178800	0.884	0.39	
7.761	31107	23622	0.759	0.06	
7.809	152576	83363	0.546	0.29	
7.864	38313	26526	0.692	0.07	
7.900	309393	261390	0.845	0.60	8 Aroclor 1260
7.960	64634	32928	0.509	0.12	
8.048	15375	14028	0.912	0.02	
8.183	12407	8828	0.712	0.02	
8.274	398706	366107	0.918	0.77	
8.378	39099	28792	0.736	0.07	
8.451	13160	10152	0.771	0.02	
8.571	9681529	8514193	0.879	18.82	$ 12 Decachlorobiphenyl
8.703	25252	25758	1.020	0.04	
8.726	82429	73877	0.896	0.16	
8.832	11184	10506	0.939	0.02	
9.056	37316	31387	0.841	0.07	
9.168	66797	59570	0.892	0.12	
9.327	12636	7680	0.608	0.02	
9.471	25013	14816	0.592	0.04	
9.736	21820	18194	0.834	0.04	
	51430424	45527965		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718066.D
Lab Smp Id: 40150295018 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 07-MAR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295018,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 66
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	9.971	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	10426185	0.08456	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	683654	0.29179	150	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	521086	0.12555	63	0.00- 20.00	76.22	BA
4.813	4.812	0.001	217932	0.10735	54	0.00- 20.00	31.88	BA
4.894	4.879	0.015	855230	0.16977	85	0.00- 20.00	125.10	BA
5.036	5.038	-0.002	199964	0.05572	28	0.00- 20.00	29.25	BA
Average of Peak Concentrations =					75			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	831413	0.15881	80	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	307660	0.07153	36	0.00- 20.00	37.00	BA
5.508	5.510	-0.002	911128	0.11732	59	0.00- 20.00	109.59	BA
6.025	6.027	-0.002	468008	0.09611	48	0.00- 20.00	56.29	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					56			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	1813989	0.20468	100	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	910968	0.09097	46	0.00- 20.00	50.22	CO
7.251	7.251	0.000	387099	0.08099	41	0.00- 20.00	21.34	CO
7.442	7.443	-0.001	410546	0.14083	71	0.00- 20.00	22.63	CO
7.900	7.901	-0.001	309392	0.11725	59	0.00- 20.00	17.06	CO
Average of Peak Concentrations =					64			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9681529	0.08837	44			

QC Flag Legend

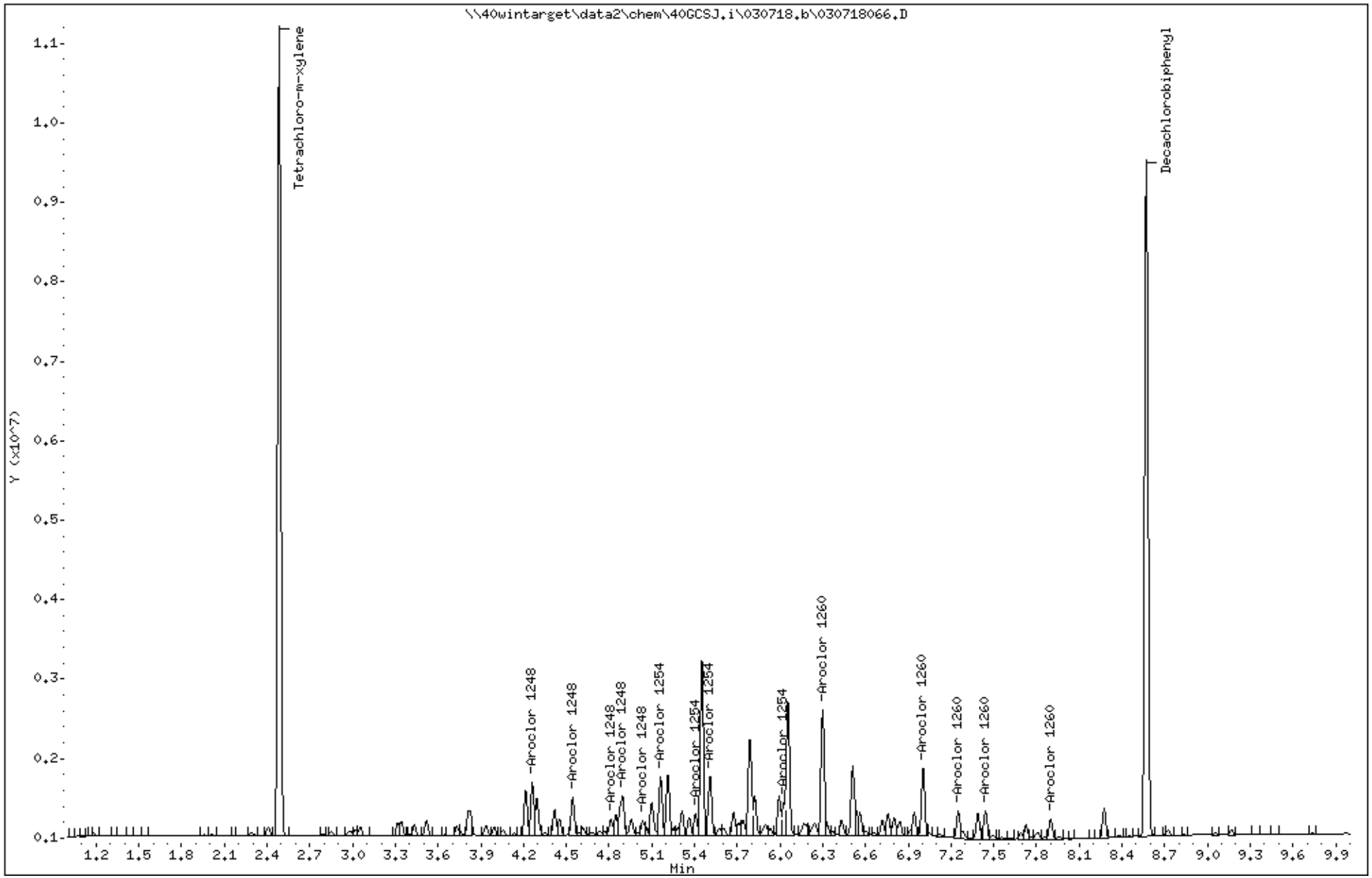
M - Compound response manually integrated.

Review Codes Legend

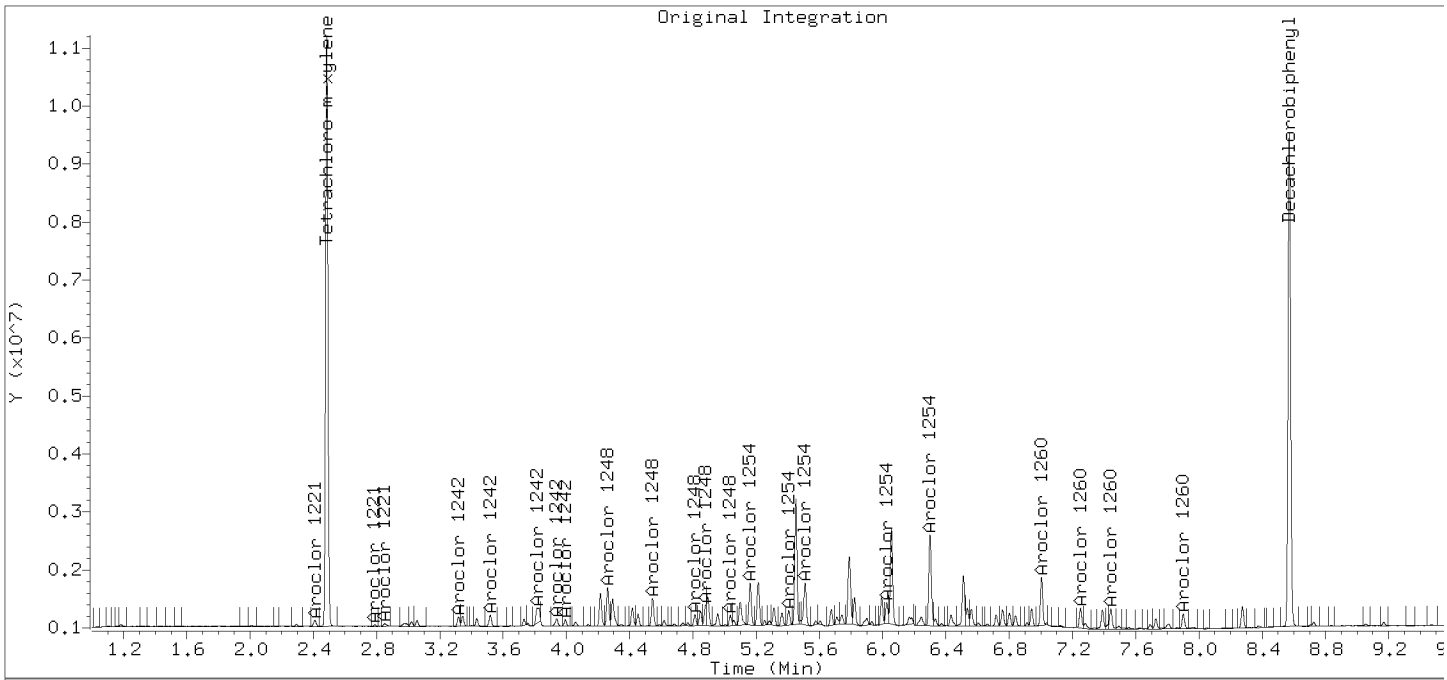
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

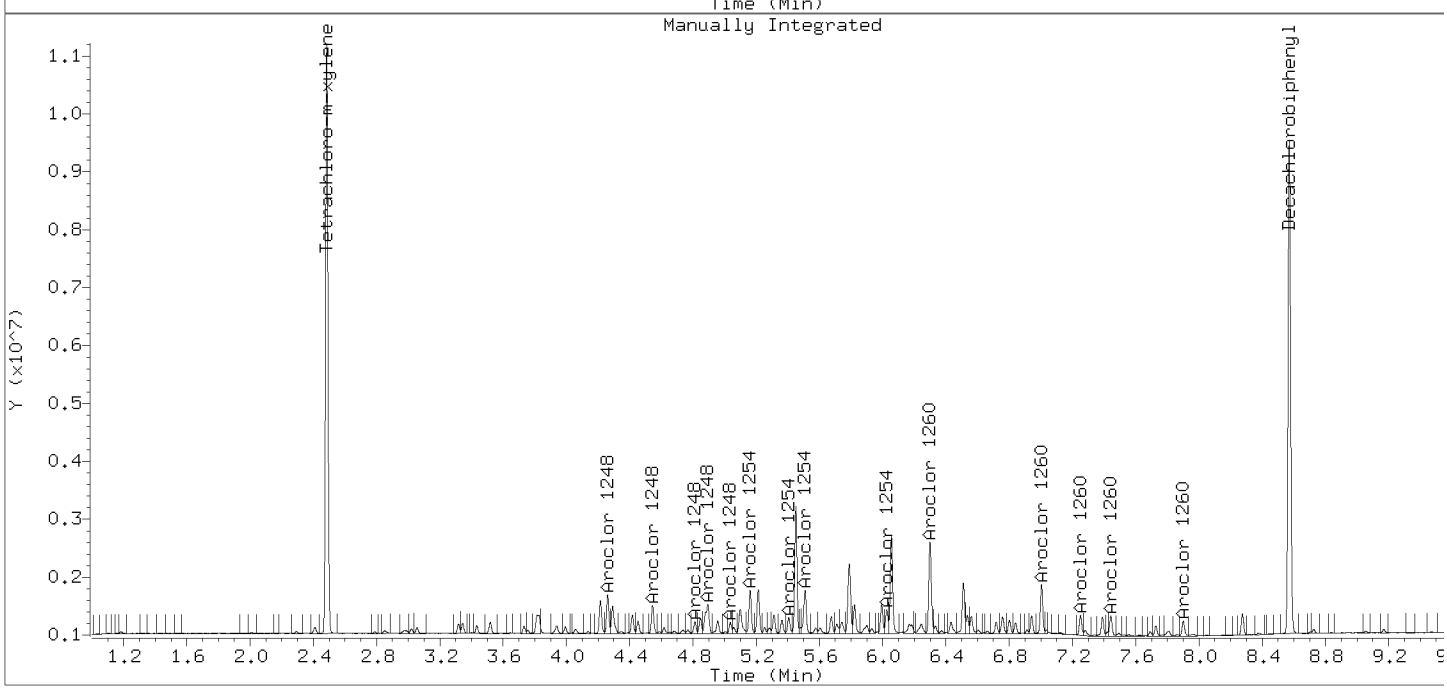
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718066.D
Date : 07-MAR-2018 21:46
Client ID: CS1-170518-01-STB-0
Sample Info: 40150295018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718066.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 21:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	165972	0	
Aroclor 1016	165972	0	
Aroclor 1016	165972	0	
Aroclor 1016	165972	0	
Aroclor 1016	165972	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	66328	0	
Aroclor 1232	66328	0	
Aroclor 1232	66328	0	
Aroclor 1232	66328	0	

Aroclor 1232	66328	0	
Aroclor 1242	165972	0	
Aroclor 1242	165972	0	
Aroclor 1242	165972	0	
Aroclor 1242	165972	0	
Aroclor 1242	165972	0	
Aroclor 1248	673565	683654	BA
Aroclor 1248	673565	683654	BA
Aroclor 1248	673565	683654	BA
Aroclor 1248	673565	683654	BA
Aroclor 1248	673565	683654	BA
Aroclor 1254	762638	831413	BA
Aroclor 1254	762638	831413	BA
Aroclor 1254	762638	831413	BA
Aroclor 1254	762638	831413	BA
Aroclor 1254	762638	831413	BA
Aroclor 1260	1774928	1813989	CO
Aroclor 1260	1774928	1813989	CO
Aroclor 1260	1774928	1813989	CO
Aroclor 1260	1774928	1813989	CO
Aroclor 1260	1774928	1813989	CO
Tetrachloro-m-xylene	10426185	10426185	
Decachlorobiphenyl	9681529	9681529	

==========

SAMPLE NO.

CS1-170518-01-STB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 40150295019
Date Analyzed: 03/13/2018 15:37
Lab File ID: 031318.B\031318009.D
Initial wt/vol: 10.012 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1040	
11097-69-1	PCB-1254 (Aroclor 1254)	1000	
11096-82-5	PCB-1260 (Aroclor 1260)	510	
1336-36-3	PCB, Total	2550	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318009.D
Lab Smp Id: 40150295019 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295019 x5,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
Dil Factor: 5.00000
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	5.000	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	10.012	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.953	27494	20848	0.758	0.03		
2.355	11066	9755	0.882	0.01		
2.410	74699	62508	0.837	0.09		
2.485	2239555	2130728	0.951	2.74	$ 2 Tetrachloro-m-xylene	
2.790	22145	17728	0.801	0.02		
2.852	42763	30717	0.718	0.05		
2.974	98290	66025	0.672	0.12		
3.020	56821	59914	1.054	0.06		
3.055	79239	66819	0.843	0.09		
3.131	11020	9153	0.831	0.01		
3.318	223523	221396	0.990	0.27		
3.344	229380	213540	0.931	0.28		
3.434	118190	112958	0.956	0.14		
3.460	28027	30452	1.087	0.03		
3.519	264003	219194	0.830	0.32		
3.645	22206	18576	0.837	0.02		
3.732	189964	190939	1.005	0.23		
3.756	132075	126070	0.955	0.16		
3.826	1322429	813178	0.615	1.62		
3.938	287089	205454	0.716	0.35		
3.993	240843	226446	0.940	0.29		
4.059	161759	120707	0.746	0.19		
4.137	52642	48450	0.920	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.179	17356	14969	0.862	0.02	
4.215	1476911	1381478	0.935	1.81	
4.261	1567856	1496967	0.955	1.92	6 Aroclor 1248
4.292	1428457	1100553	0.770	1.75	
4.348	73071	63812	0.873	0.08	
4.418	1010508	954345	0.944	1.23	
4.453	629685	566042	0.899	0.77	
4.545	1338259	1232321	0.921	1.64	6 Aroclor 1248
4.589	66804	65548	0.981	0.08	
4.617	264164	217306	0.823	0.32	
4.655	49111	48287	0.983	0.06	
4.682	111648	93299	0.836	0.13	
4.738	257821	205741	0.798	0.31	
4.768	140095	127346	0.909	0.17	
4.813	758845	720380	0.949	0.93	6 Aroclor 1248
4.848	986634	962284	0.975	1.21	
4.894	2621831	1340622	0.511	3.21	6 Aroclor 1248
4.957	723932	594768	0.822	0.88	
5.003	126945	123602	0.974	0.15	
5.037	706440	684552	0.969	0.86	6 Aroclor 1248
5.058	309382	323957	1.047	0.37	
5.100	1805952	1195624	0.662	2.21	
5.162	2481151	2198408	0.886	3.04	7 Aroclor 1254
5.213	2673536	2363320	0.884	3.27	
5.254	530805	518354	0.977	0.65	
5.284	282398	264279	0.936	0.34	
5.313	1263948	1185217	0.938	1.55	
5.363	782507	724950	0.926	0.95	
5.407	1102267	994625	0.902	1.35	7 Aroclor 1254
5.451	8328007	8060527	0.968	10.83	
5.509	2685780	2185472	0.814	3.29	7 Aroclor 1254
5.577	239768	215179	0.897	0.29	
5.603	325791	258690	0.794	0.39	
5.674	929992	863518	0.929	1.14	
5.710	532368	332364	0.624	0.65	
5.742	615502	460779	0.749	0.75	
5.790	3802531	3137636	0.825	4.66	
5.822	1104191	1028611	0.932	1.35	
5.900	755878	523684	0.693	0.92	
5.932	192643	164609	0.854	0.23	
5.963	45394	45892	1.011	0.05	
5.993	1031601	975015	0.945	1.26	
6.026	1316656	1122881	0.853	1.61	7 Aroclor 1254
6.055	4245127	3730701	0.879	5.20	
6.168	958120	554524	0.579	1.17	
6.226	199465	230095	1.154	0.24	
6.242	451584	341006	0.755	0.55	
6.299	4297391	3602374	0.838	5.27	7 Aroclor 1254
6.334	454137	422297	0.930	0.55	
6.372	129733	113691	0.876	0.15	
6.406	19731	26003	1.318	0.02	
6.432	451174	314470	0.697	0.55	
6.483	83212	77238	0.928	0.10	
6.509	1789513	1589261	0.888	2.19	
6.535	732093	696515	0.951	0.89	
6.560	775500	692381	0.893	0.95	
6.603	171591	150477	0.877	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.633	45173	45201	1.001	0.05	
6.659	116695	105449	0.904	0.14	
6.717	467967	421501	0.901	0.57	
6.756	614932	516635	0.840	0.75	
6.802	649926	594144	0.914	0.79	
6.839	325030	274601	0.845	0.39	
6.887	32500	34757	1.069	0.03	
6.910	102279	100870	0.986	0.12	
6.941	1020376	966634	0.947	1.25	
7.004	2194611	2004838	0.914	2.69	8 Aroclor 1260
7.034	234235	143629	0.613	0.28	
7.072	40567	45010	1.110	0.04	
7.103	23098	24498	1.061	0.02	
7.121	39705	38628	0.973	0.04	
7.251	843619	797926	0.946	1.03	8 Aroclor 1260
7.280	272303	212458	0.780	0.33	
7.341	12592	12581	0.999	0.01	
7.390	597925	514208	0.860	0.73	
7.442	706840	632056	0.894	0.86	8 Aroclor 1260
7.491	96415	74514	0.773	0.11	
7.527	27838	28247	1.015	0.03	
7.555	60969	41153	0.675	0.07	
7.622	86424	63310	0.733	0.10	
7.663	5129	10419	2.032	0.00	
7.690	152189	140680	0.924	0.18	
7.725	228589	205630	0.900	0.28	
7.764	36970	33297	0.901	0.04	
7.812	273114	193385	0.708	0.33	
7.865	40750	34683	0.851	0.04	
7.901	472534	404679	0.856	0.57	8 Aroclor 1260
7.962	72664	42894	0.590	0.08	
8.048	31553	25668	0.813	0.03	
8.199	27360	21284	0.778	0.03	
8.274	472899	434570	0.919	0.58	
8.342	9485	10264	1.082	0.01	
8.375	32696	24935	0.763	0.04	
8.453	22137	14990	0.677	0.02	
8.571	2529656	2151307	0.850	3.10	$ 12 Decachlorobiphenyl
8.724	126385	84562	0.669	0.15	
8.836	14978	9676	0.646	0.01	
9.056	22888	20740	0.906	0.02	
9.167	51676	43280	0.838	0.06	
9.289	34175	28121	0.823	0.04	
9.468	14071	7292	0.518	0.01	
9.697	9490	10536	1.110	0.01	
9.733	27973	19372	0.693	0.03	
9.963	12852	8871	0.690	0.01	
	81522248	70374384		100.000	

Total unknown % area = 66

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318009.D
Lab Smp Id: 40150295019 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295019 x5,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
Dil Factor: 5.00000
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	5.000	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	10.012	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	2239555	0.01816	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	1567855	0.66917	1700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1338259	0.32245	800	0.00- 20.00	85.36	BA
4.812	4.812	0.000	758844	0.37380	930	0.00- 20.00	48.40	BA
4.894	4.879	0.015	2621831	0.52047	1300	0.00- 20.00	167.22	BA
5.037	5.038	-0.001	706439	0.19686	490	0.00- 20.00	45.06	BA
Average of Peak Concentrations =					1000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2481151	0.47393	1200	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1102267	0.25628	640	0.00- 20.00	44.43	BA
5.509	5.510	-0.001	2685779	0.34584	860	0.00- 20.00	108.25	BA
6.026	6.027	-0.001	1316656	0.27038	680	0.00- 20.00	53.07	BA
6.299	6.299	0.000	4297391	0.66042	1600	0.00- 20.00	173.20	BA
Average of Peak Concentrations =					1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	2194611	0.21915	550	0.00- 20.00	0.00	BA
7.251	7.251	0.000	843619	0.17650	440	0.00- 20.00	0.00	BA
7.441	7.443	-0.002	706840	0.24247	600	0.00- 20.00	0.00	BA
7.900	7.901	-0.001	472534	0.17908	450	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					510			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2529656	0.02309	58			

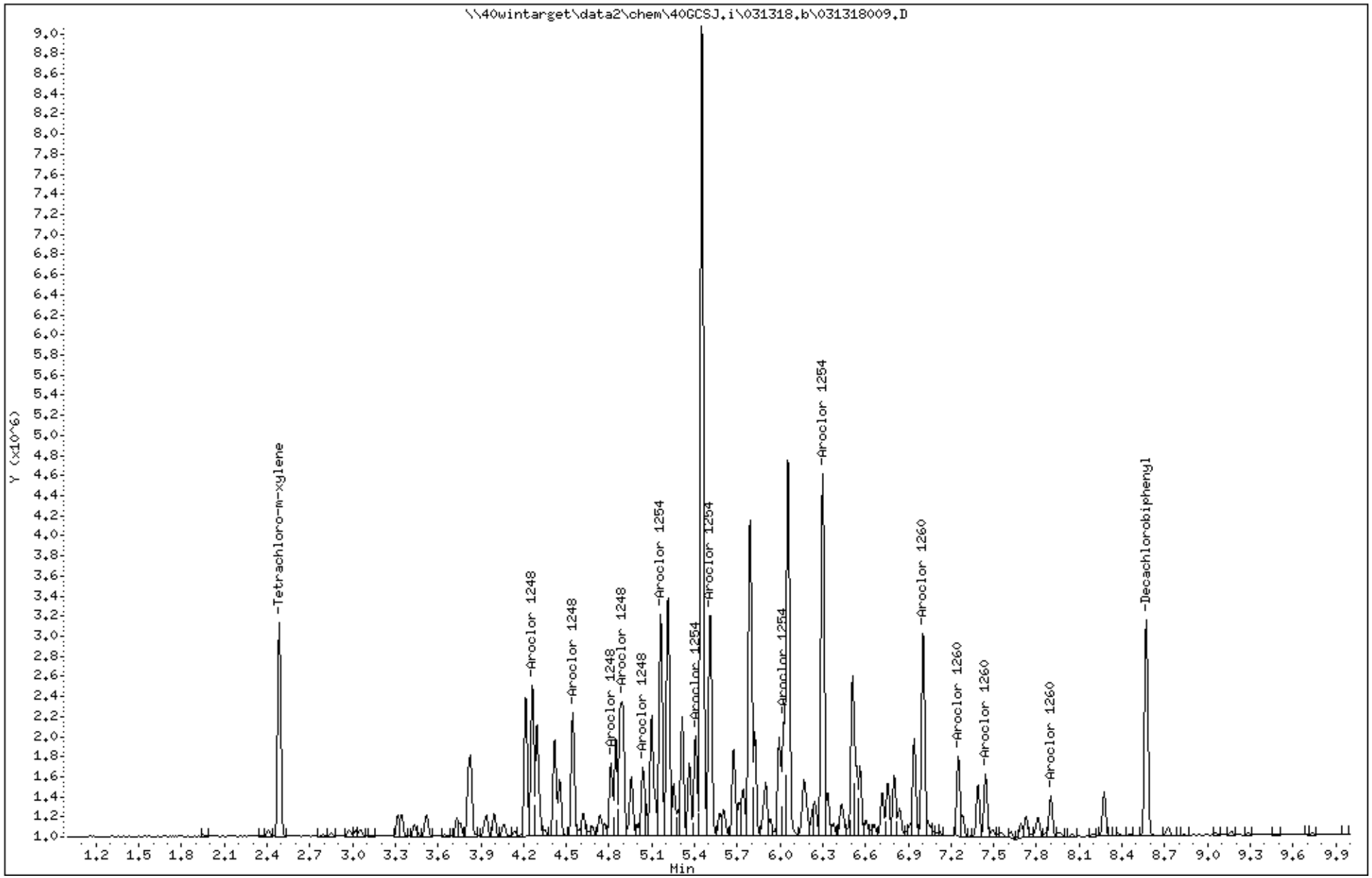
QC Flag Legend

M - Compound response manually integrated.

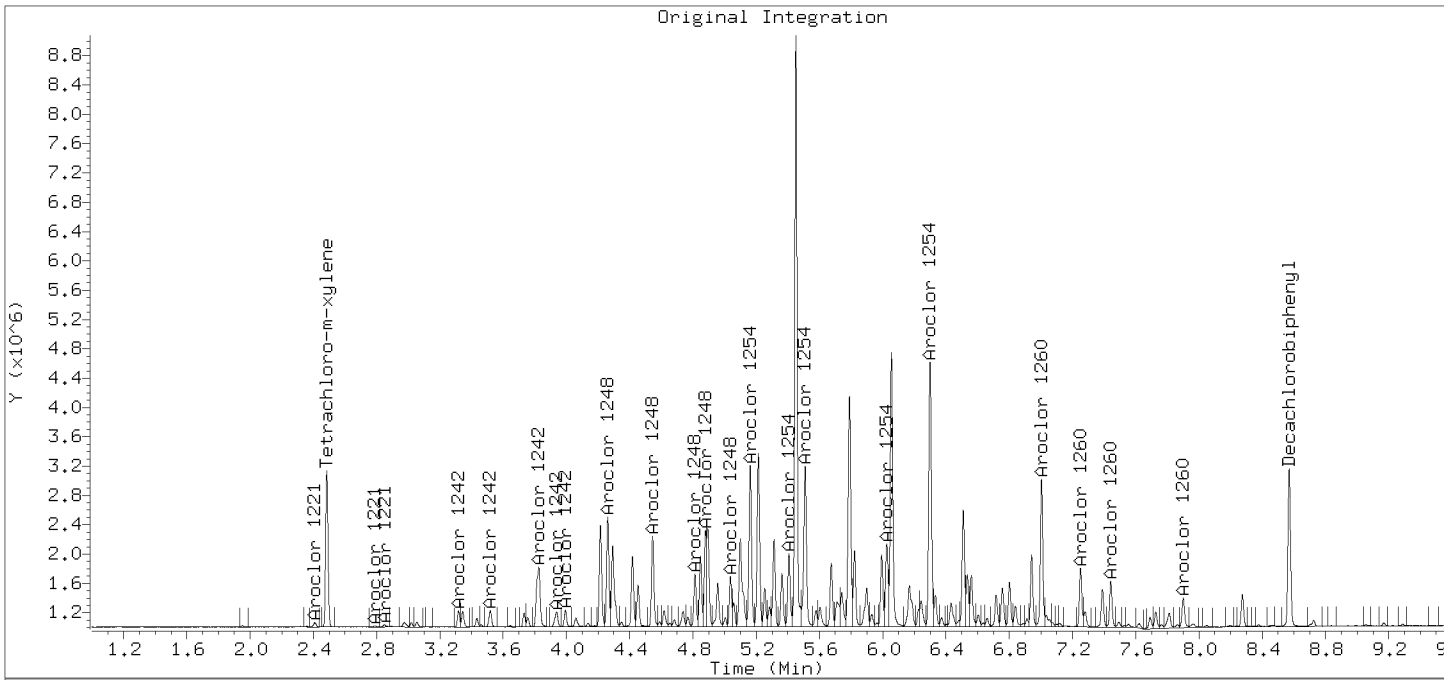
Review Codes Legend

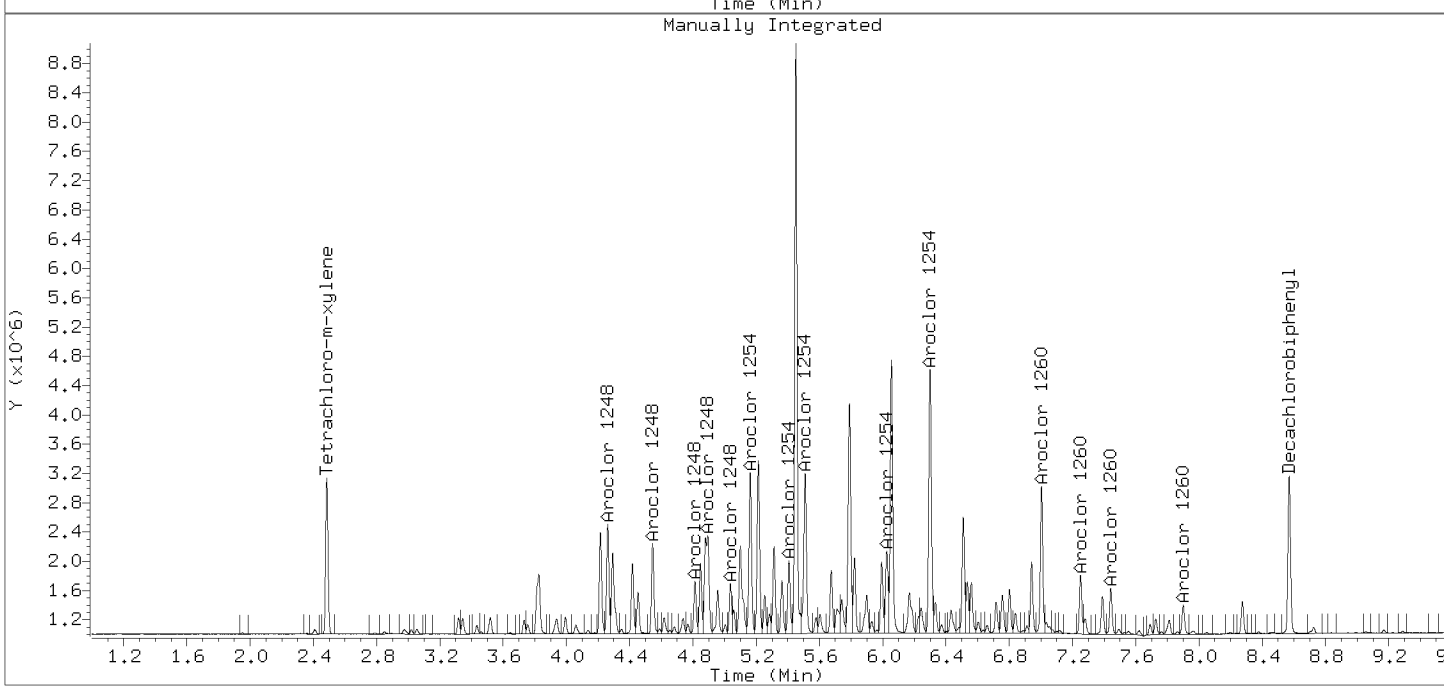
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318009.D
Date : 13-MAR-2018 15:37
Client ID: CS1-170518-01-STB-0
Instrument: 40GCSJ.i
Sample Info: 40150295019 x5,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 15:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	223522	0	
Aroclor 1016	223522	0	
Aroclor 1016	223522	0	
Aroclor 1016	223522	0	
Aroclor 1016	223522	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	42762	0	
Aroclor 1232	42762	0	
Aroclor 1232	42762	0	
Aroclor 1232	42762	0	

Aroclor 1232	42762	0	
Aroclor 1242	223522	0	
Aroclor 1242	223522	0	
Aroclor 1242	223522	0	
Aroclor 1242	223522	0	
Aroclor 1242	223522	0	
Aroclor 1248	1565759	1567855	BA
Aroclor 1248	1565759	1567855	BA
Aroclor 1248	1565759	1567855	BA
Aroclor 1248	1565759	1567855	BA
Aroclor 1248	1565759	1567855	BA
Aroclor 1254	2487481	2481151	BA
Aroclor 1254	2487481	2481151	BA
Aroclor 1254	2487481	2481151	BA
Aroclor 1254	2487481	2481151	BA
Aroclor 1254	2487481	2481151	BA
Aroclor 1260	4311181	0	BA
Aroclor 1260	4311181	0	BA
Aroclor 1260	4311181	0	BA
Aroclor 1260	4311181	0	BA
Aroclor 1260	4311181	0	BA
Tetrachloro-m-xylene	2239555	2239555	
Decachlorobiphenyl	2529656	2529656	

==========

SAMPLE NO.

CS1-170518-01-STB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 40150295020
Date Analyzed: 03/13/2018 16:09
Lab File ID: 031318.B\031318011.D
Initial wt/vol: 9.9616 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)	62.4	
11097-69-1	PCB-1254 (Aroclor 1254)	79.8	
11096-82-5	PCB-1260 (Aroclor 1260)	124	
1336-36-3	PCB, Total	267	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318011.D
Lab Smp Id: 40150295020 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295020,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.962	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	9733	8765	0.901	0.01		
1.066	14188	10347	0.729	0.02		
1.100	11805	7502	0.636	0.01		
1.158	11793	12913	1.095	0.01		
1.421	10624	8375	0.788	0.01		
1.683	25257	18365	0.727	0.03		
1.798	27119	21404	0.789	0.04		
1.829	19092	14576	0.763	0.02		
1.948	13806	8336	0.604	0.02		
2.130	60368	43208	0.716	0.09		
2.170	68222	66198	0.970	0.10		
2.210	22660	22339	0.986	0.03		
2.257	20303	21408	1.054	0.03		
2.292	80480	84164	1.046	0.12		
2.315	123558	119519	0.967	0.18		
2.358	17422	17093	0.981	0.02		
2.407	99622	65435	0.657	0.14		
2.443	23005	19006	0.826	0.03		
2.484	8982991	8735607	0.972	13.47	$ 2 Tetrachloro-m-xylene	
2.599	11794	9572	0.812	0.01		
2.788	26766	24917	0.931	0.04		
2.851	52502	34933	0.665	0.07		
2.974	92381	53245	0.576	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.019	52669	51692	0.981	0.07	
3.054	75941	72745	0.958	0.11	
3.318	95584	93175	0.975	0.14	
3.343	106223	98820	0.930	0.15	
3.399	13609	12715	0.934	0.02	
3.432	93740	86553	0.923	0.14	
3.519	141002	120653	0.856	0.21	
3.644	14261	10465	0.734	0.02	
3.695	10705	9165	0.856	0.01	
3.731	102985	70095	0.681	0.15	
3.825	317900	172888	0.544	0.47	
3.937	109763	85265	0.777	0.16	
3.993	78870	70078	0.889	0.11	
4.057	71569	49813	0.696	0.10	
4.137	25720	22883	0.890	0.03	
4.214	478476	443926	0.928	0.71	
4.260	505630	494301	0.978	0.75	6 Aroclor 1248
4.292	443876	348650	0.785	0.66	
4.342	25149	19365	0.770	0.03	
4.416	246157	220099	0.894	0.36	
4.452	174978	151045	0.863	0.26	
4.545	377429	337744	0.895	0.56	6 Aroclor 1248
4.590	36492	34106	0.935	0.05	
4.617	68027	58803	0.864	0.10	
4.680	58261	55245	0.948	0.08	
4.738	89818	69714	0.776	0.13	
4.767	70171	64680	0.922	0.10	
4.812	210383	188784	0.897	0.31	6 Aroclor 1248
4.846	256130	238742	0.932	0.38	
4.894	840900	461080	0.548	1.26	6 Aroclor 1248
4.957	243321	200083	0.822	0.36	
5.003	35705	34970	0.979	0.05	
5.036	159715	151682	0.950	0.23	6 Aroclor 1248
5.058	90586	91369	1.009	0.13	
5.099	601647	478621	0.796	0.90	
5.162	1334598	1162136	0.871	2.00	7 Aroclor 1254
5.212	1506501	1339061	0.889	2.26	
5.253	36899	37191	1.008	0.05	
5.281	194806	161535	0.829	0.29	
5.312	614004	575403	0.937	0.92	
5.363	384925	335271	0.871	0.57	
5.407	402429	354995	0.882	0.60	7 Aroclor 1254
5.450	3791655	3704800	0.977	5.68	
5.509	1203145	984741	0.818	1.80	7 Aroclor 1254
5.577	264628	222356	0.840	0.39	
5.604	151421	108779	0.718	0.22	
5.674	666419	625139	0.938	0.99	
5.709	308180	229974	0.746	0.46	
5.742	510594	380383	0.745	0.76	
5.789	2600651	2043813	0.786	3.90	
5.821	322944	235249	0.728	0.48	
5.899	381585	263106	0.690	0.57	
5.931	188067	167919	0.893	0.28	
5.964	43248	47129	1.090	0.06	
5.992	1309023	1183918	0.904	1.96	
6.025	644130	596694	0.926	0.96	7 Aroclor 1254
6.055	4486503	3879207	0.865	6.73	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.168	409305	305086	0.745	0.61	
6.184	297442	289909	0.975	0.44	
6.243	509168	298300	0.586	0.76	
6.299	3735718	3132742	0.839	5.60	8 Aroclor 1260
6.332	312705	275663	0.882	0.46	
6.373	82826	64995	0.785	0.12	
6.431	593618	429929	0.724	0.89	
6.487	87036	91062	1.046	0.13	
6.510	2359757	2068090	0.876	3.54	
6.535	622087	626615	1.007	0.93	
6.560	790549	690869	0.874	1.18	
6.605	136658	112641	0.824	0.20	
6.659	68533	63729	0.930	0.10	
6.716	351336	301693	0.859	0.52	
6.758	652039	574956	0.882	0.97	
6.802	489411	421081	0.860	0.73	
6.838	419406	366746	0.874	0.62	
6.887	36699	37017	1.009	0.05	
6.912	165044	153847	0.932	0.24	
6.941	635593	612843	0.964	0.95	
7.004	2026464	1791334	0.884	3.04	8 Aroclor 1260
7.034	241004	171351	0.711	0.36	
7.121	32124	29370	0.914	0.04	
7.250	787408	700632	0.890	1.18	8 Aroclor 1260
7.280	206891	167468	0.809	0.31	
7.339	23805	17508	0.735	0.03	
7.390	703958	648297	0.921	1.05	
7.418	33493	56848	1.697	0.05	
7.441	705813	636133	0.901	1.05	8 Aroclor 1260
7.493	64687	41463	0.641	0.09	
7.527	9647	16885	1.750	0.01	
7.552	63877	39451	0.618	0.09	
7.620	53062	30170	0.569	0.07	
7.664	9848	14816	1.504	0.01	
7.692	142927	135864	0.951	0.21	
7.727	260936	232071	0.889	0.39	
7.761	47111	41005	0.870	0.07	
7.811	243007	161690	0.665	0.36	
7.862	26578	18888	0.711	0.03	
7.899	550565	479198	0.870	0.82	8 Aroclor 1260
7.958	82807	50429	0.609	0.12	
8.046	19894	15248	0.766	0.02	
8.094	11868	7936	0.669	0.01	
8.191	16384	14913	0.910	0.02	
8.273	452165	410777	0.908	0.67	
8.375	37776	36753	0.973	0.05	
8.455	11190	9388	0.839	0.01	
8.570	9361437	8005533	0.855	14.71	$ 12 Decachlorobiphenyl
8.708	17093	13290	0.778	0.02	
8.724	65950	55374	0.840	0.09	
9.051	20792	16854	0.811	0.03	
9.165	31631	26780	0.847	0.04	
9.466	16038	10300	0.642	0.02	
9.730	16881	10367	0.614	0.02	
9.776	9387	6831	0.728	0.01	
	66654660	58275068		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318011.D
Lab Smp Id: 40150295020 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150295020,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.962	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	8982991	0.07286	36			
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	505630	0.21581	110	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	377429	0.09094	46	0.00- 20.00	74.65	BA
4.812	4.812	0.000	210382	0.10363	52	0.00- 20.00	41.61	BA
4.894	4.879	0.015	840899	0.16693	84	0.00- 20.00	166.31	BA
5.036	5.038	-0.002	159714	0.04451	22	0.00- 20.00	31.59	BA
Average of Peak Concentrations =					62			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1334597	0.25493	130	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	402428	0.09356	47	0.00- 20.00	30.15	BA
5.509	5.510	-0.001	1203145	0.15492	78	0.00- 20.00	90.15	BA
6.025	6.027	-0.002	644129	0.13227	66	0.00- 20.00	48.26	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					80			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	3735717	0.42153	210	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2026463	0.20236	100	0.00- 20.00	54.25	BA
7.250	7.251	-0.001	787408	0.16474	83	0.00- 20.00	21.08	BA
7.441	7.443	-0.002	705812	0.24212	120	0.00- 20.00	18.89	BA
7.899	7.901	-0.002	550564	0.20865	100	0.00- 20.00	14.74	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9361437	0.08545	43			

QC Flag Legend

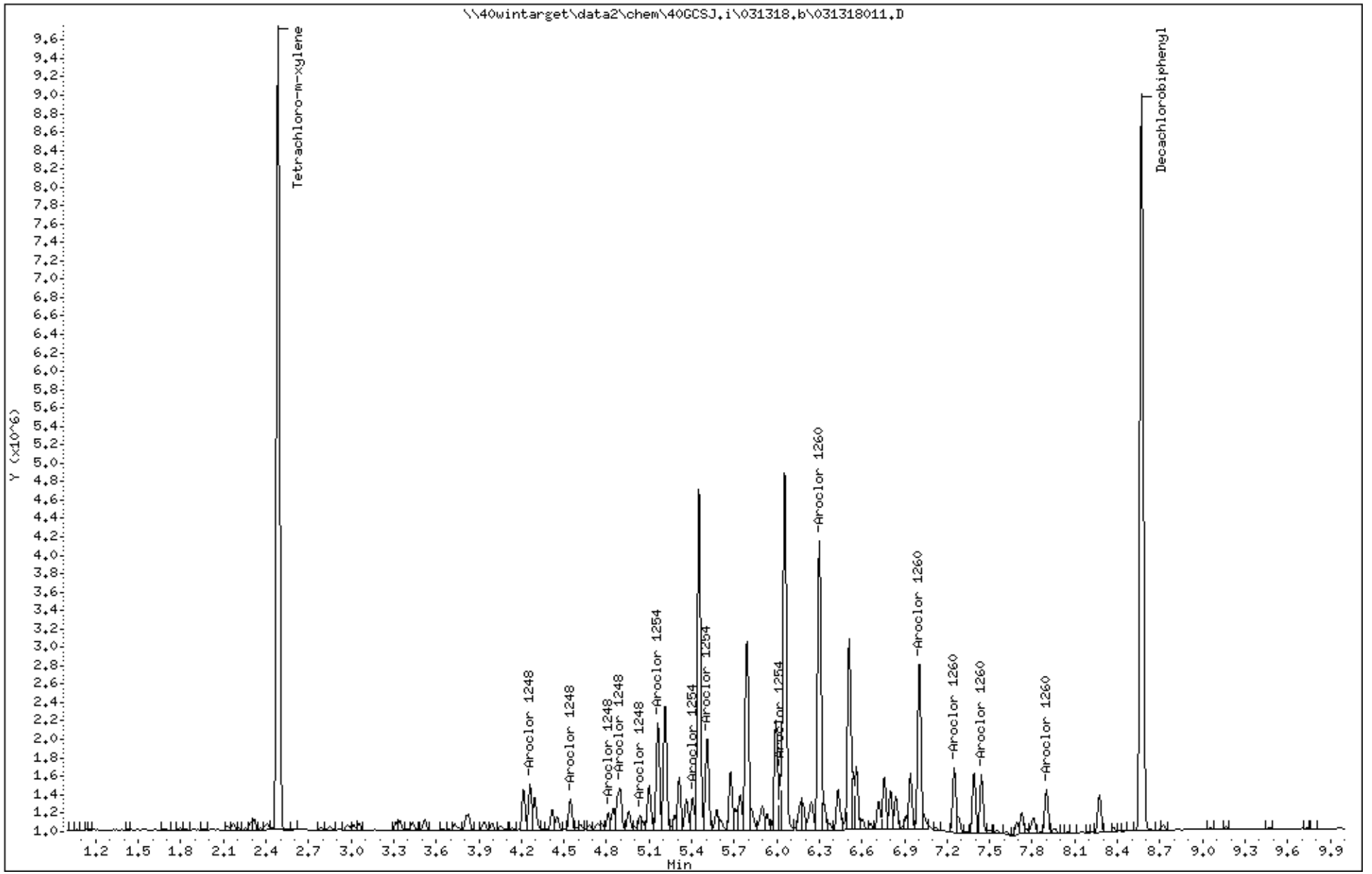
M - Compound response manually integrated.

Review Codes Legend

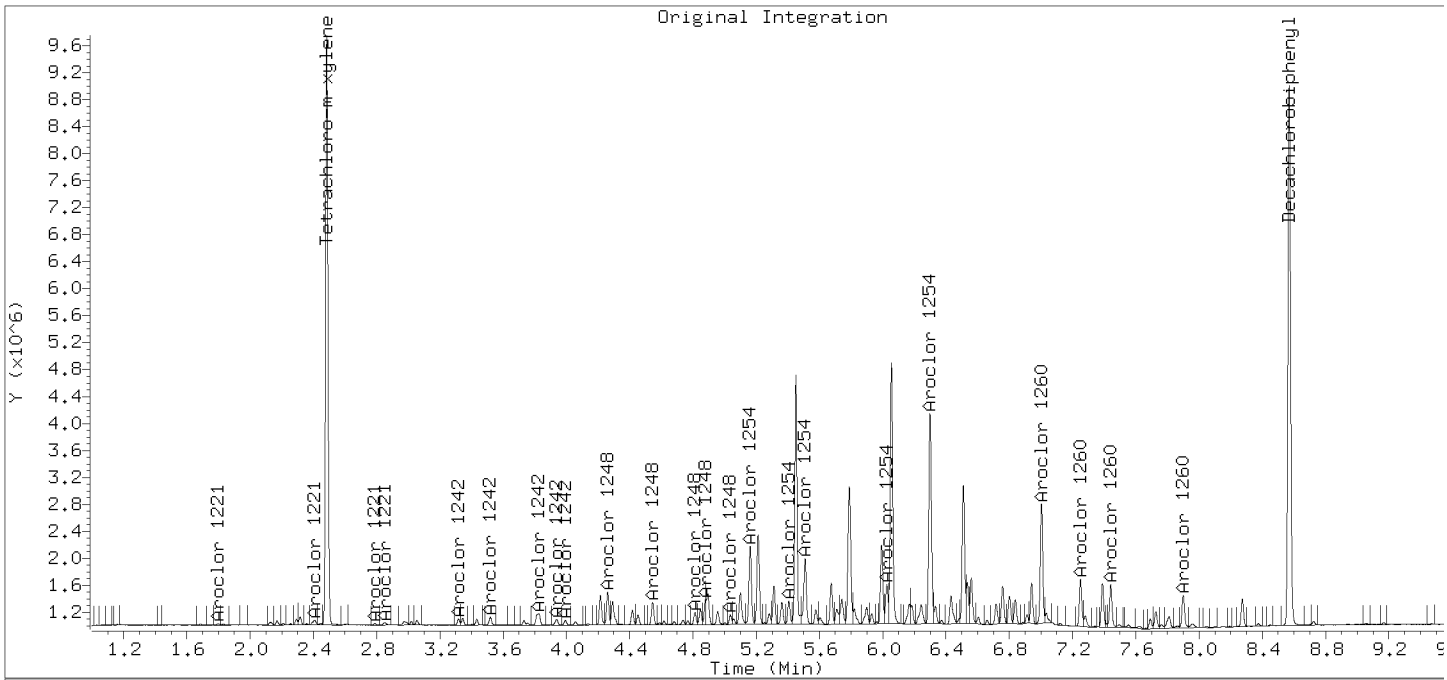
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

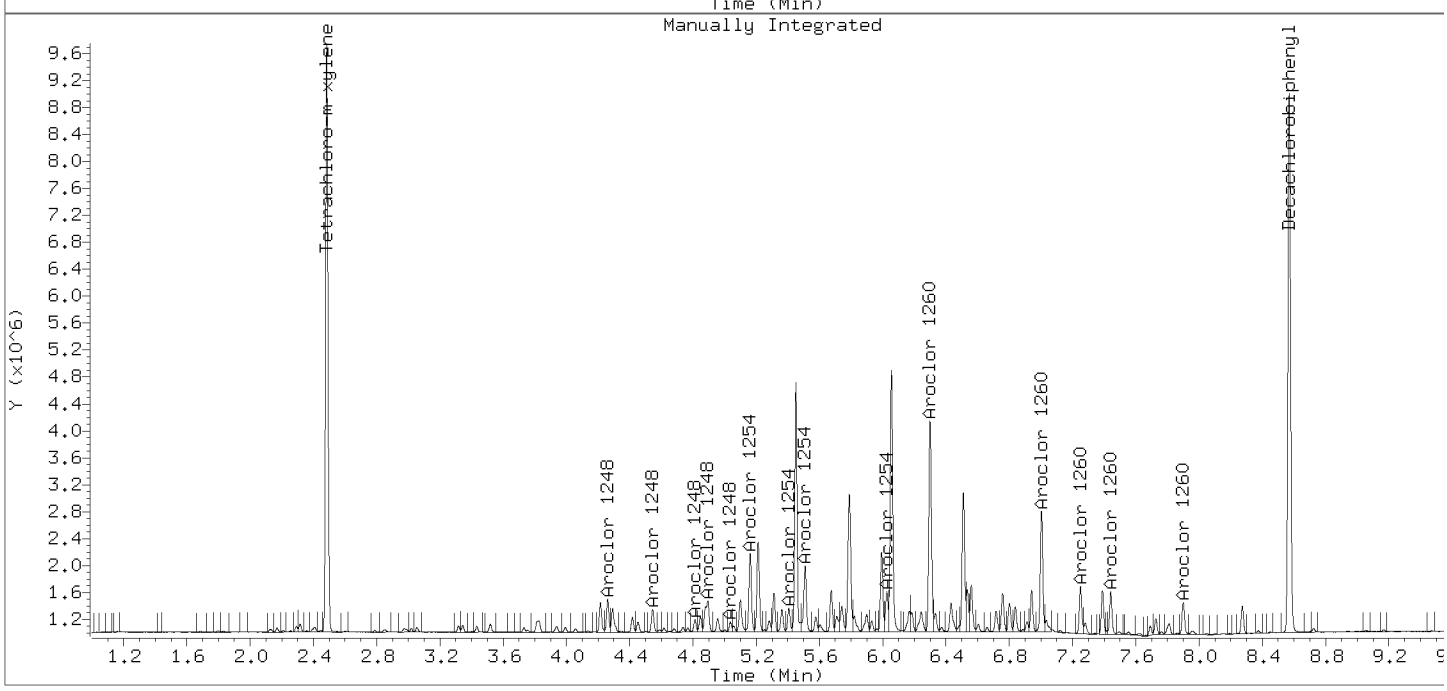
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318011.D
Date : 13-MAR-2018 16:09
Client ID: CS1-170518-01-STB-0
Sample Info: 40150295020,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 16:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150295020





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	95584	0	
Aroclor 1016	95584	0	
Aroclor 1016	95584	0	
Aroclor 1016	95584	0	
Aroclor 1016	95584	0	
Aroclor 1221	27119	0	
Aroclor 1221	27119	0	
Aroclor 1221	27119	0	
Aroclor 1221	27119	0	
Aroclor 1221	27119	0	
Aroclor 1232	52502	0	
Aroclor 1232	52502	0	
Aroclor 1232	52502	0	
Aroclor 1232	52502	0	

Aroclor 1232	52502	0	
Aroclor 1242	95584	0	
Aroclor 1242	95584	0	
Aroclor 1242	95584	0	
Aroclor 1242	95584	0	
Aroclor 1242	95584	0	
Aroclor 1248	498324	505630	BA
Aroclor 1248	498324	505630	BA
Aroclor 1248	498324	505630	BA
Aroclor 1248	498324	505630	BA
Aroclor 1248	498324	505630	BA
Aroclor 1254	1301076	1334597	BA
Aroclor 1254	1301076	1334597	BA
Aroclor 1254	1301076	1334597	BA
Aroclor 1254	1301076	1334597	BA
Aroclor 1254	1301076	1334597	BA
Aroclor 1260	3686557	3735717	BA
Aroclor 1260	3686557	3735717	BA
Aroclor 1260	3686557	3735717	BA
Aroclor 1260	3686557	3735717	BA
Aroclor 1260	3686557	3735717	BA
Tetrachloro-m-xylene	8982991	8982991	
Decachlorobiphenyl	9361437	9361437	

==========

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40150295

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.: 40150295

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.: 40150295

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.: 40150295

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.: 40150295

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.: 40150295

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.: 40150295

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

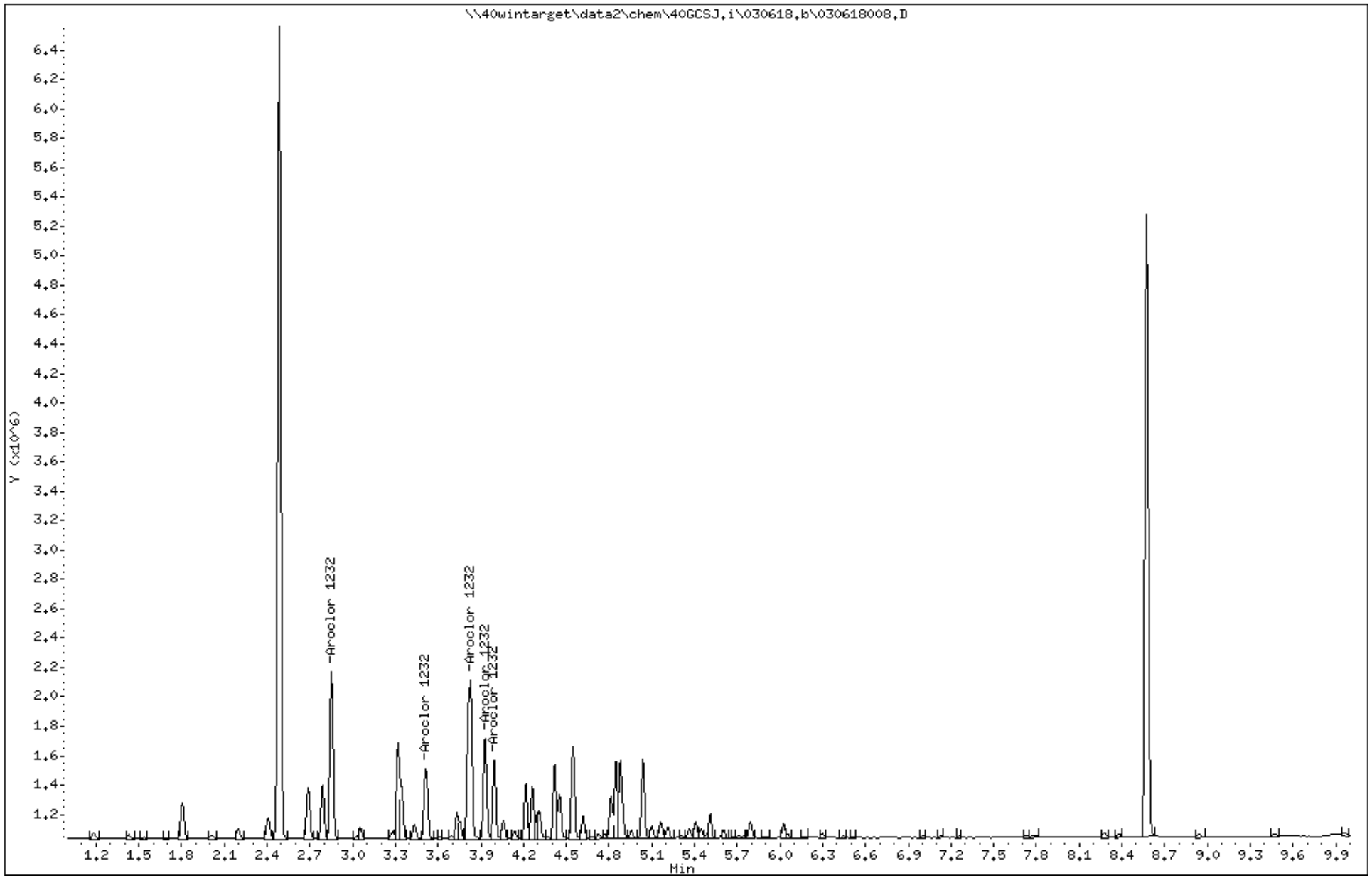
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

Column phase: ZB-1ms

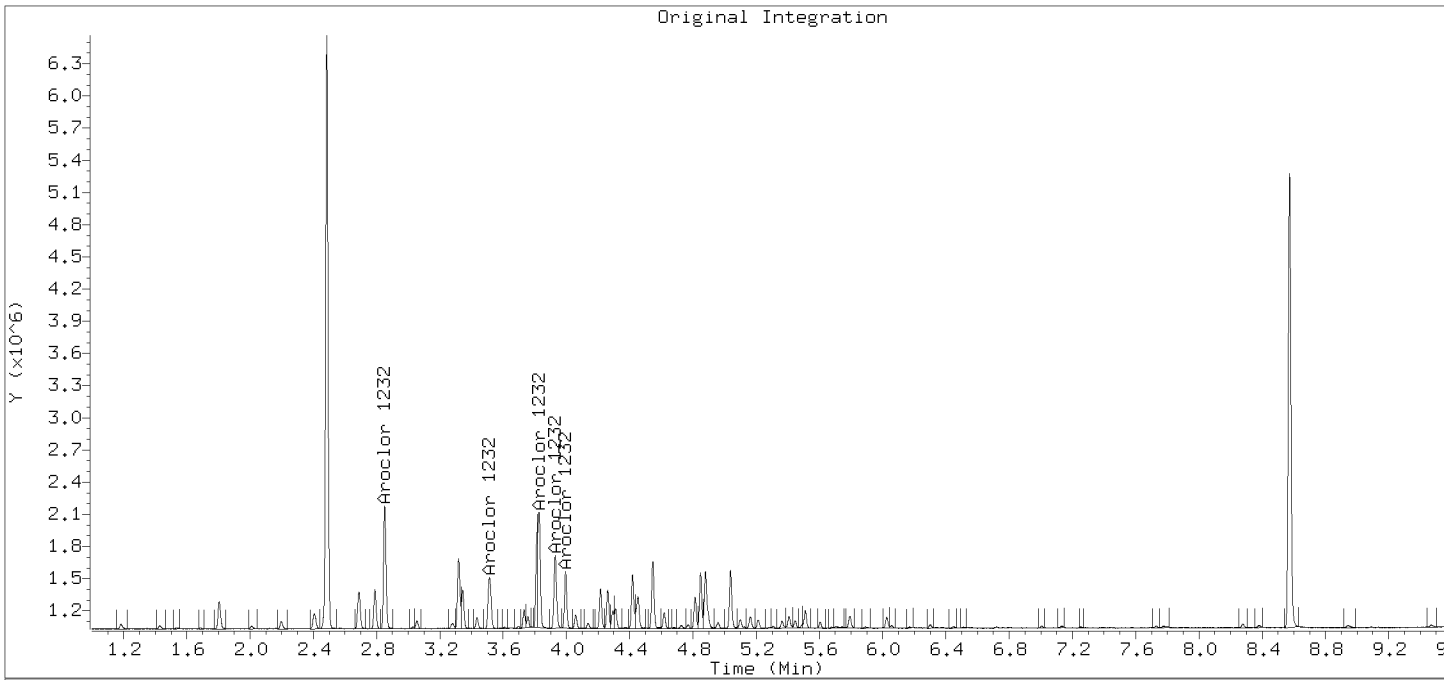
Instrument: 40GCSJ.i

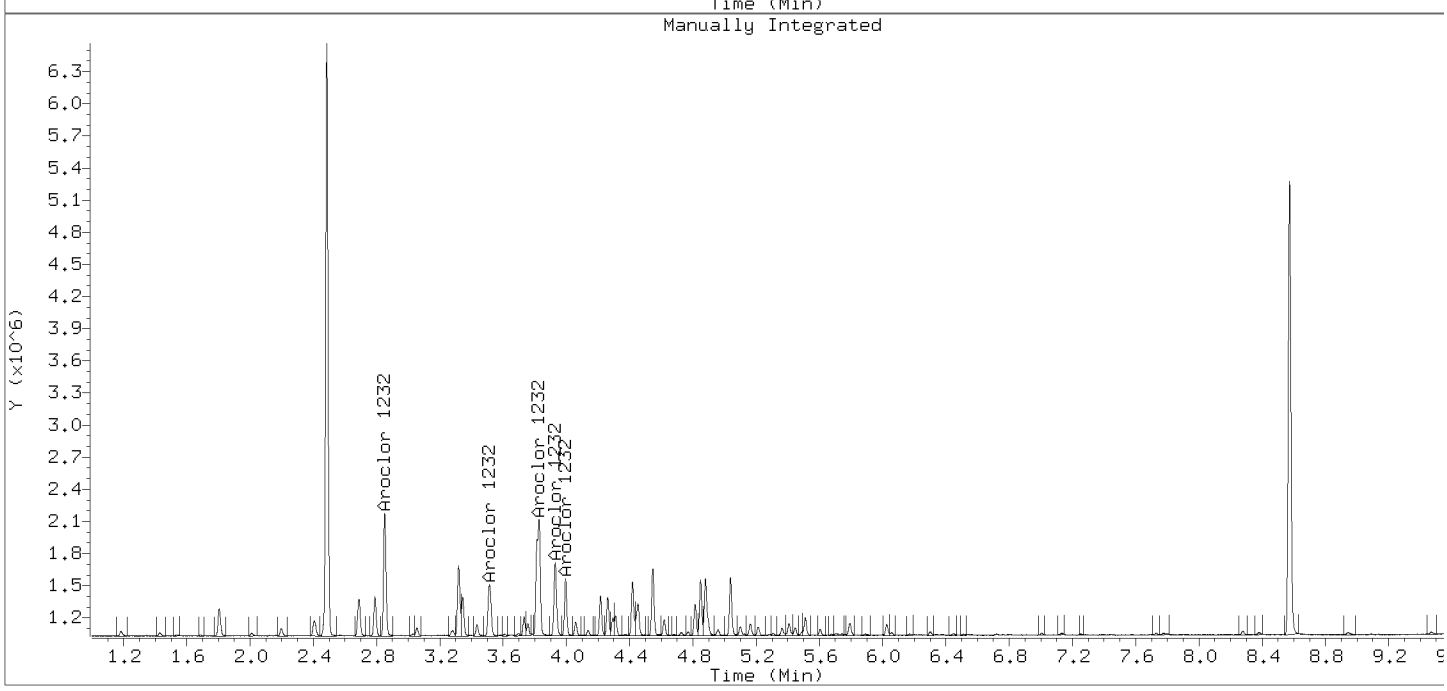
Operator: BLM

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

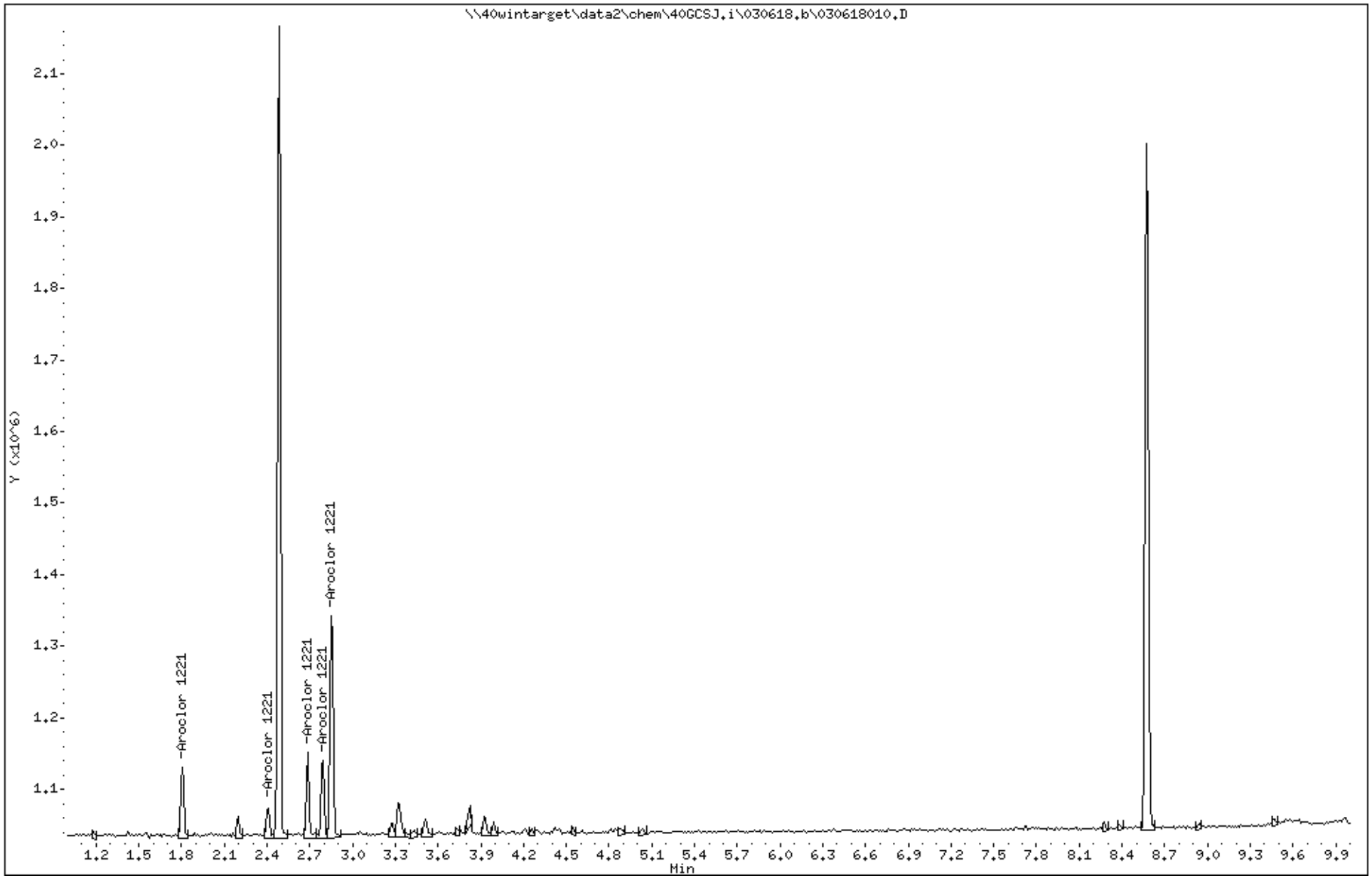
M - Compound response manually integrated.

Review Codes Legend

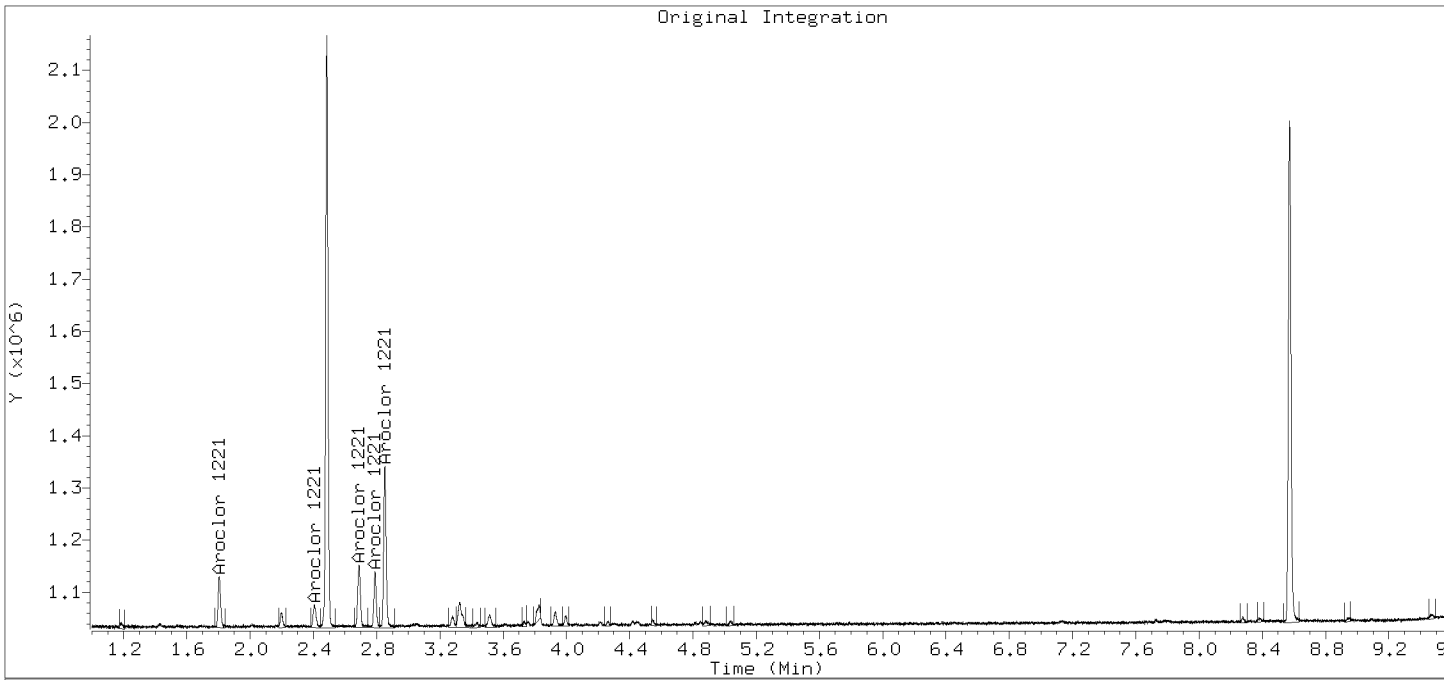
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

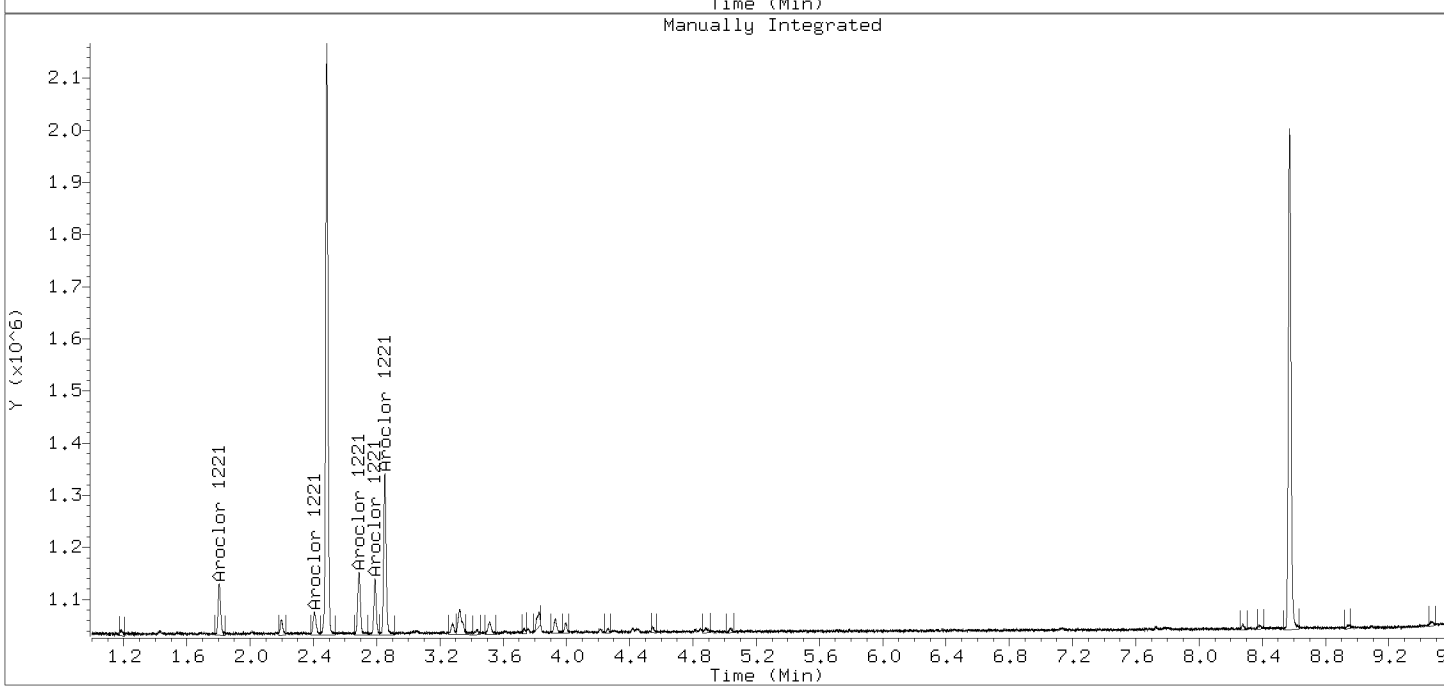
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

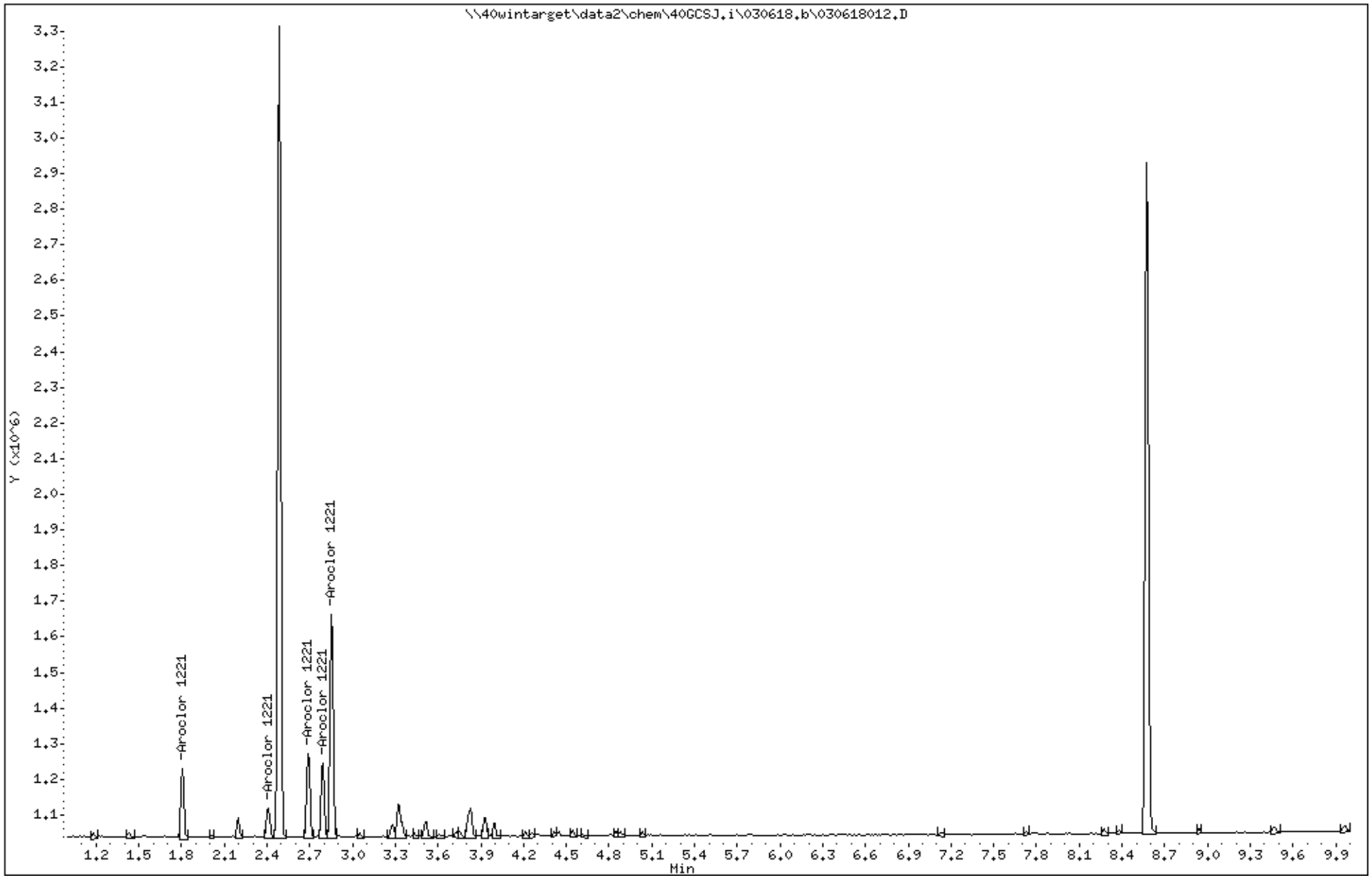
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

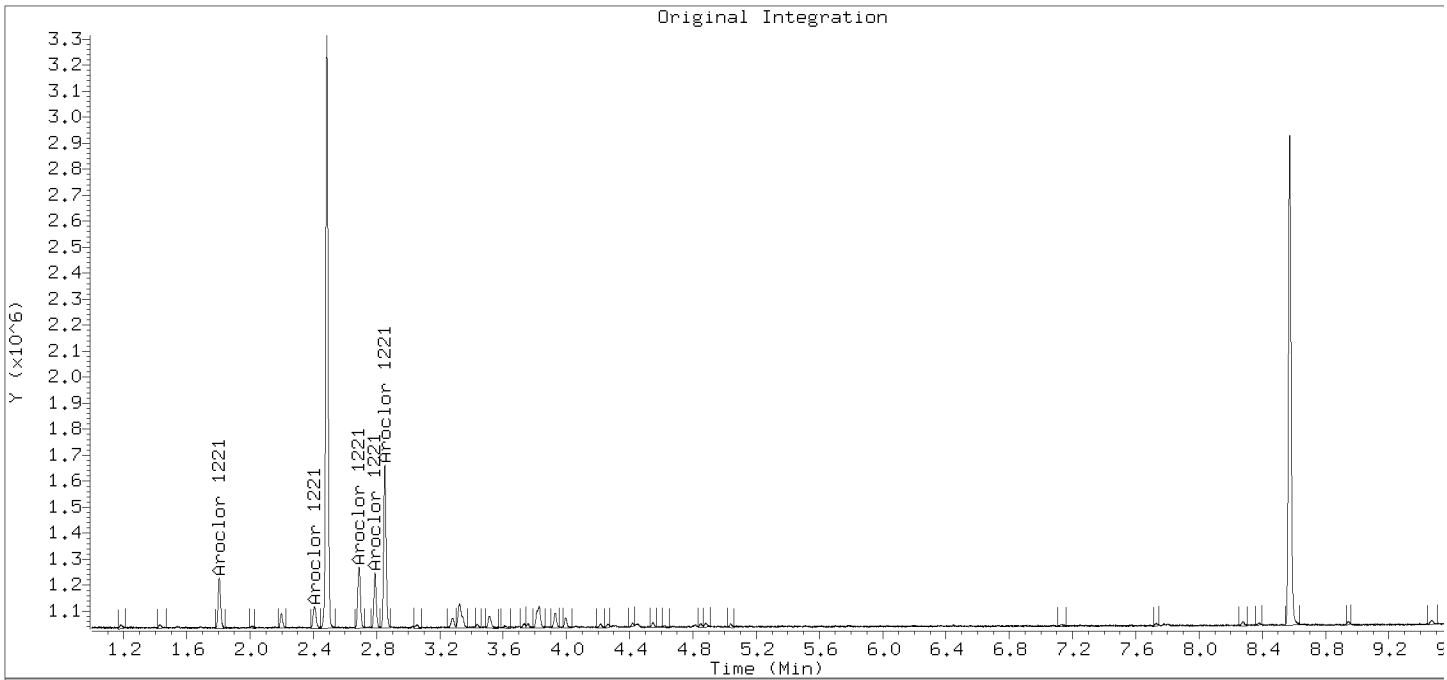
Operator: BLM

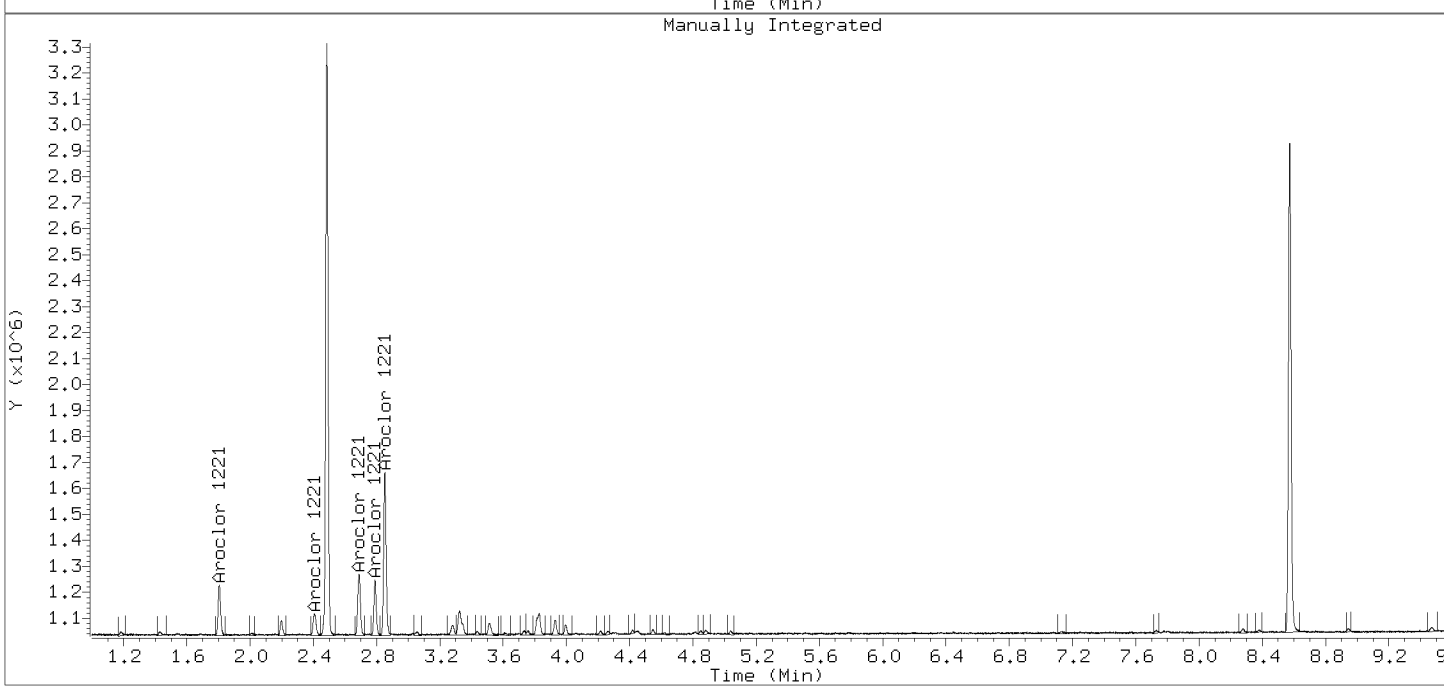
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

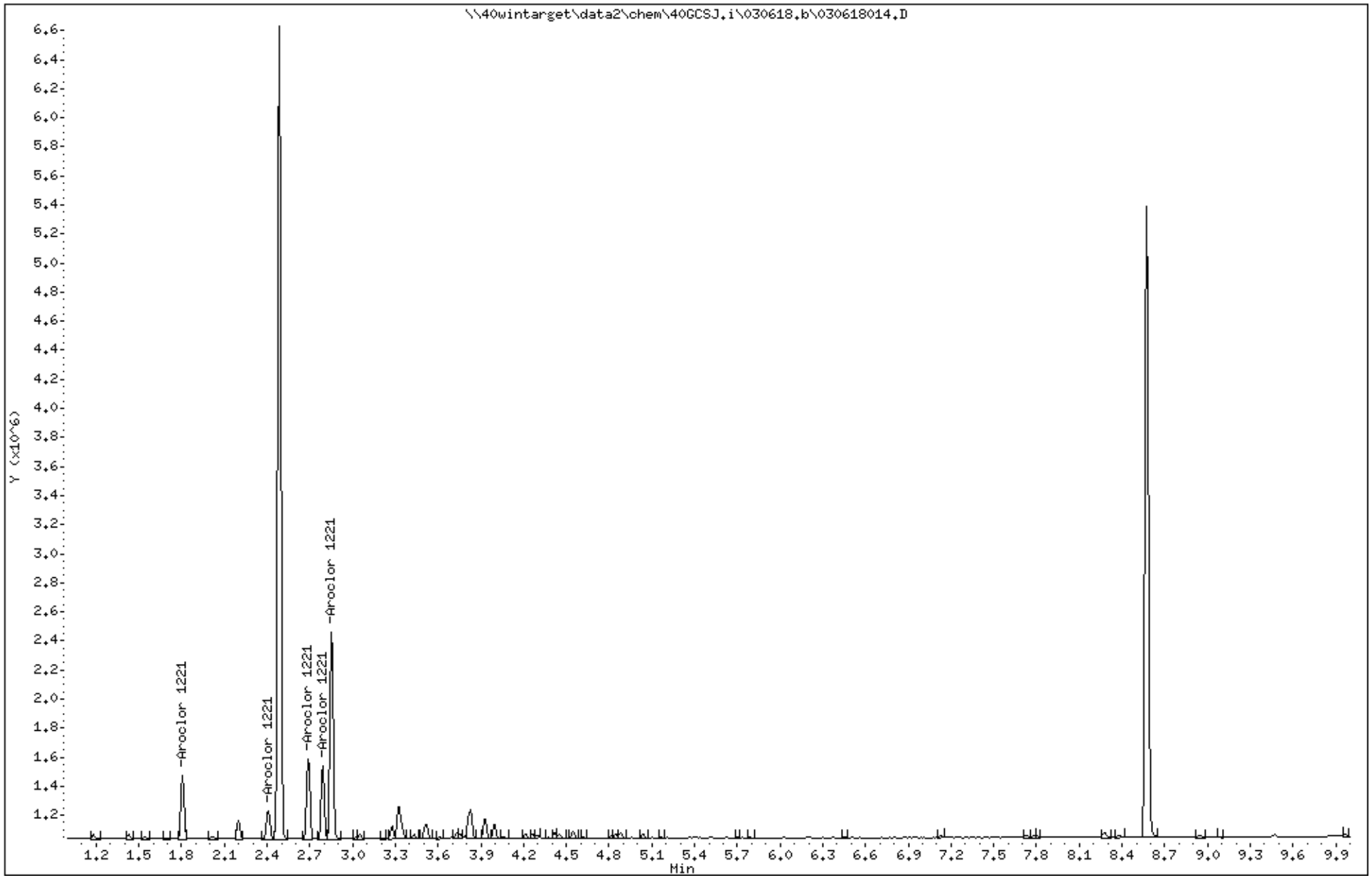
M - Compound response manually integrated.

Review Codes Legend

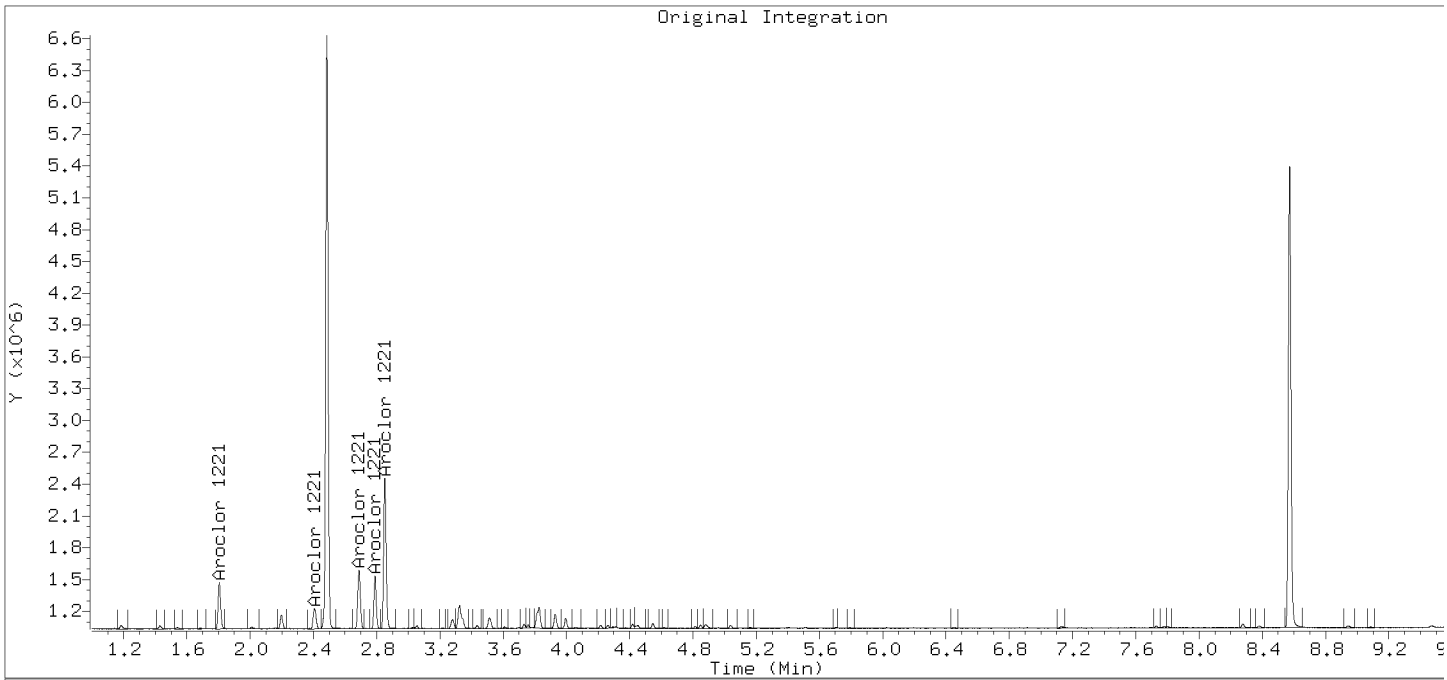
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

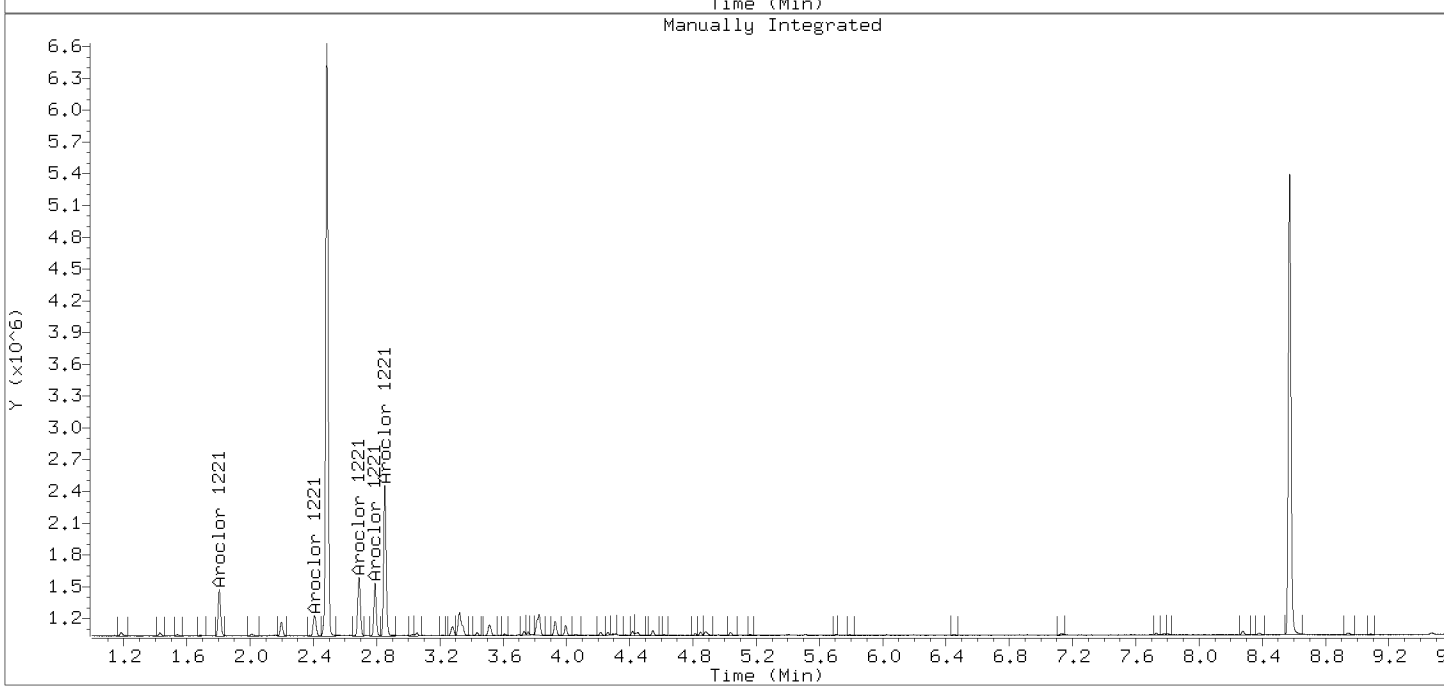
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

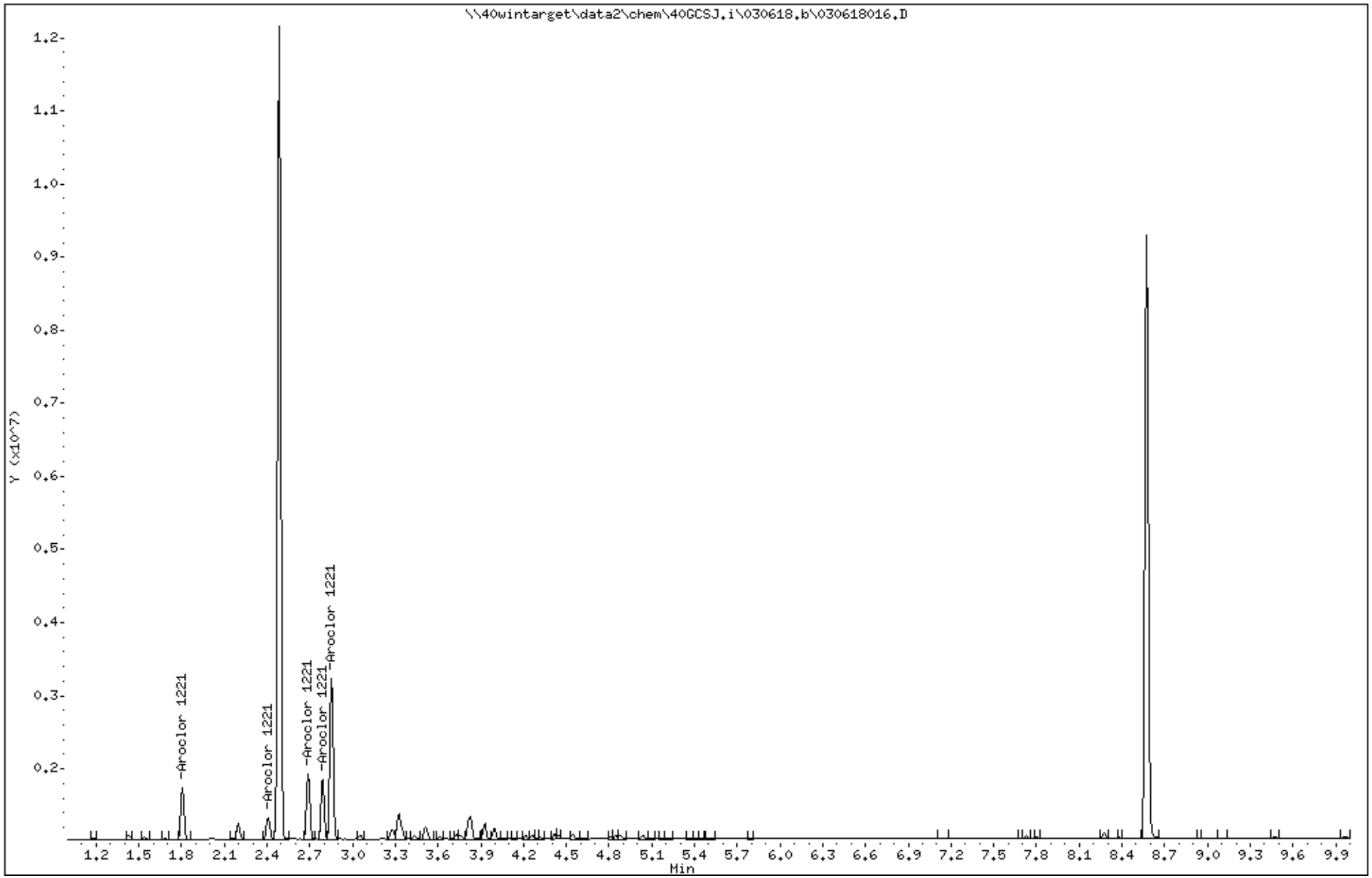
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

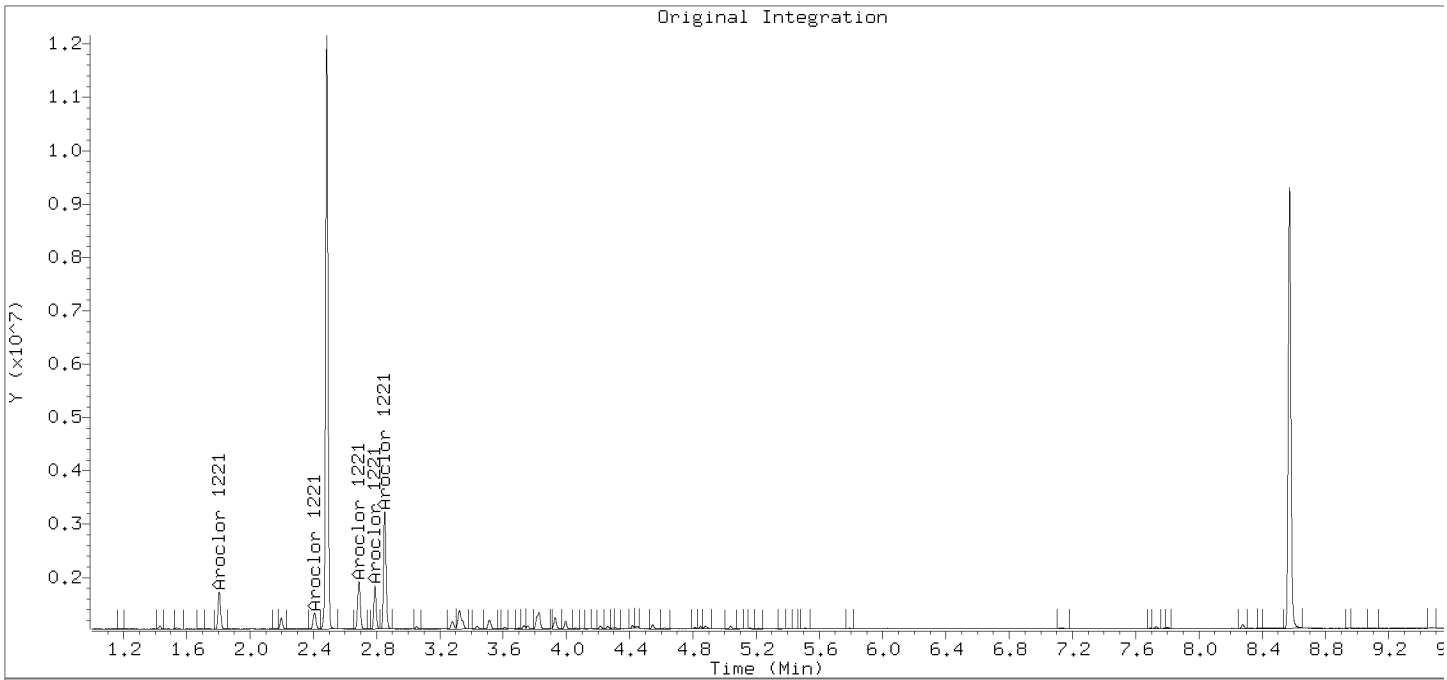
Operator: BLM

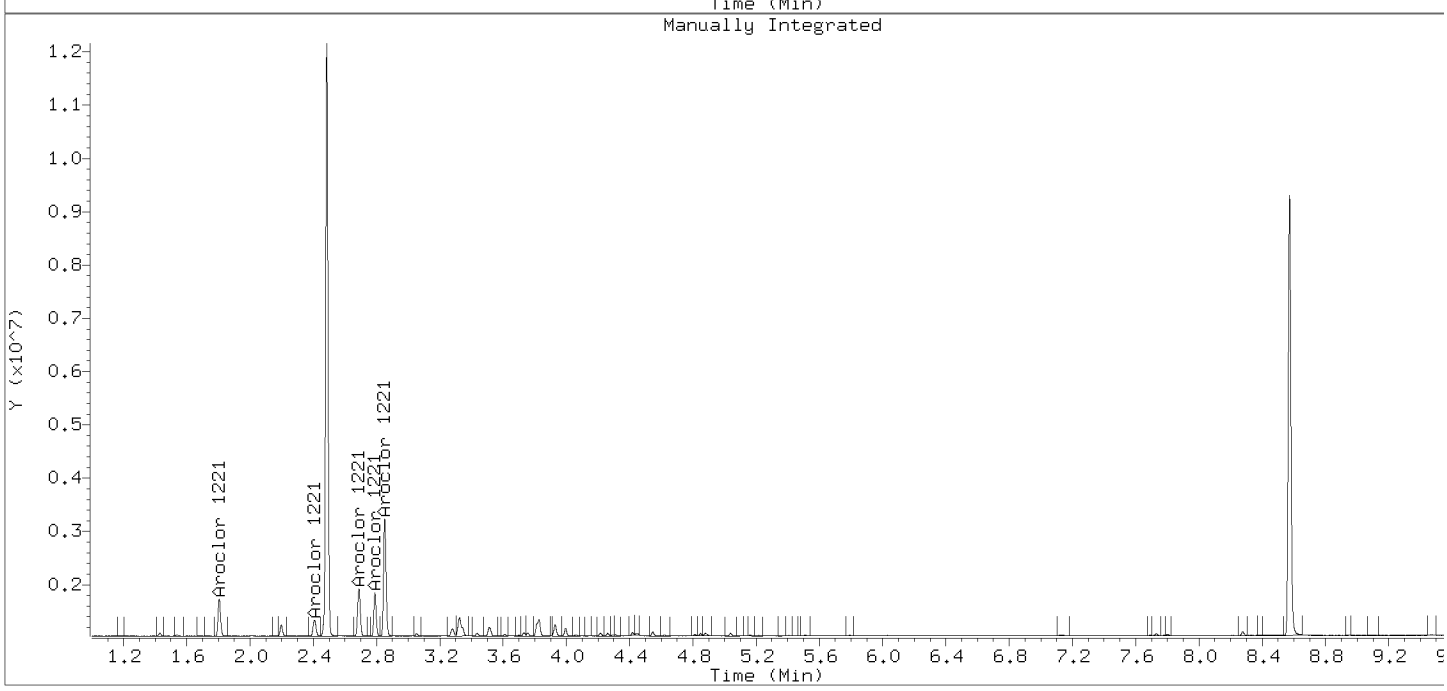
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

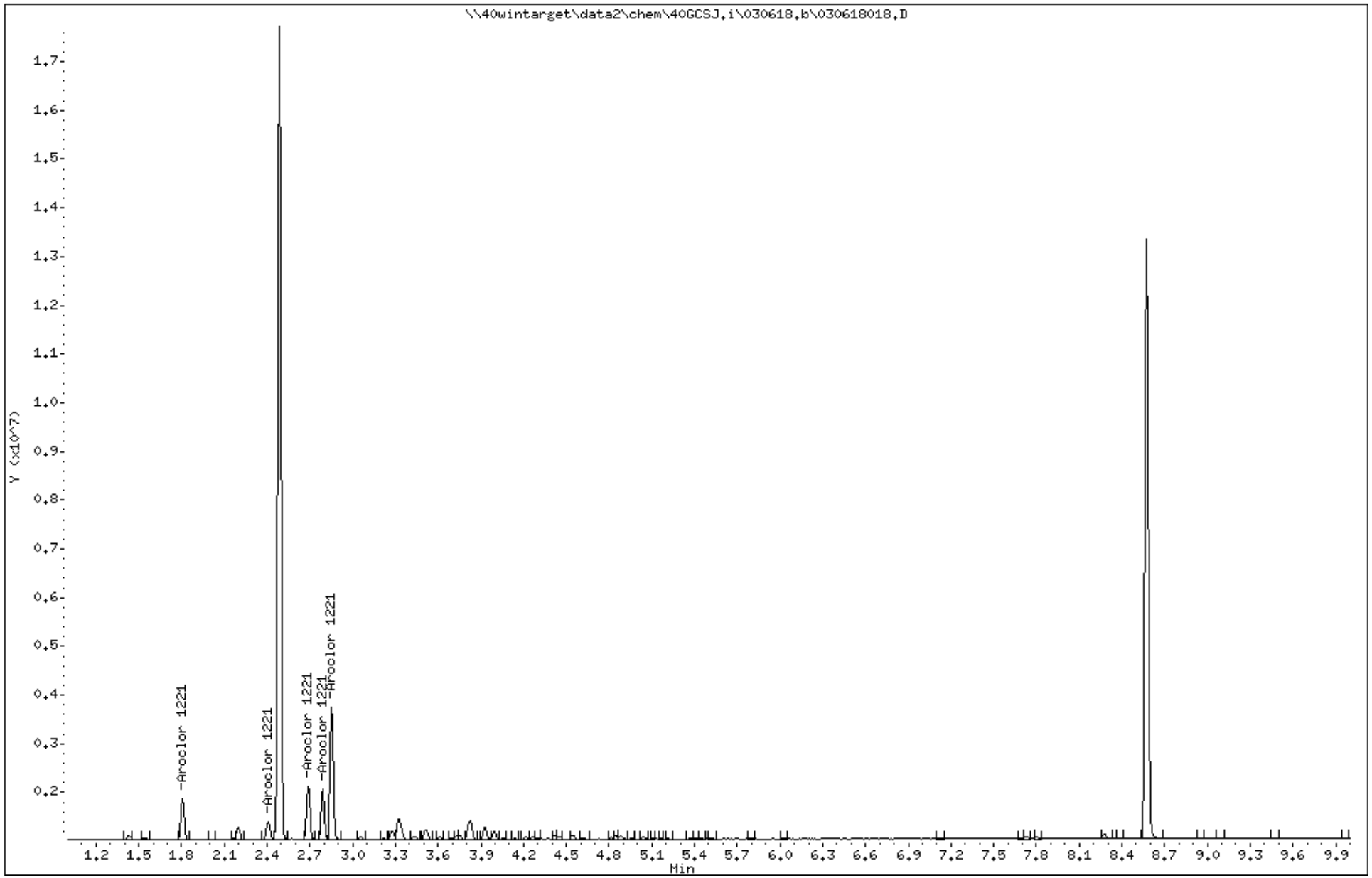
M - Compound response manually integrated.

Review Codes Legend

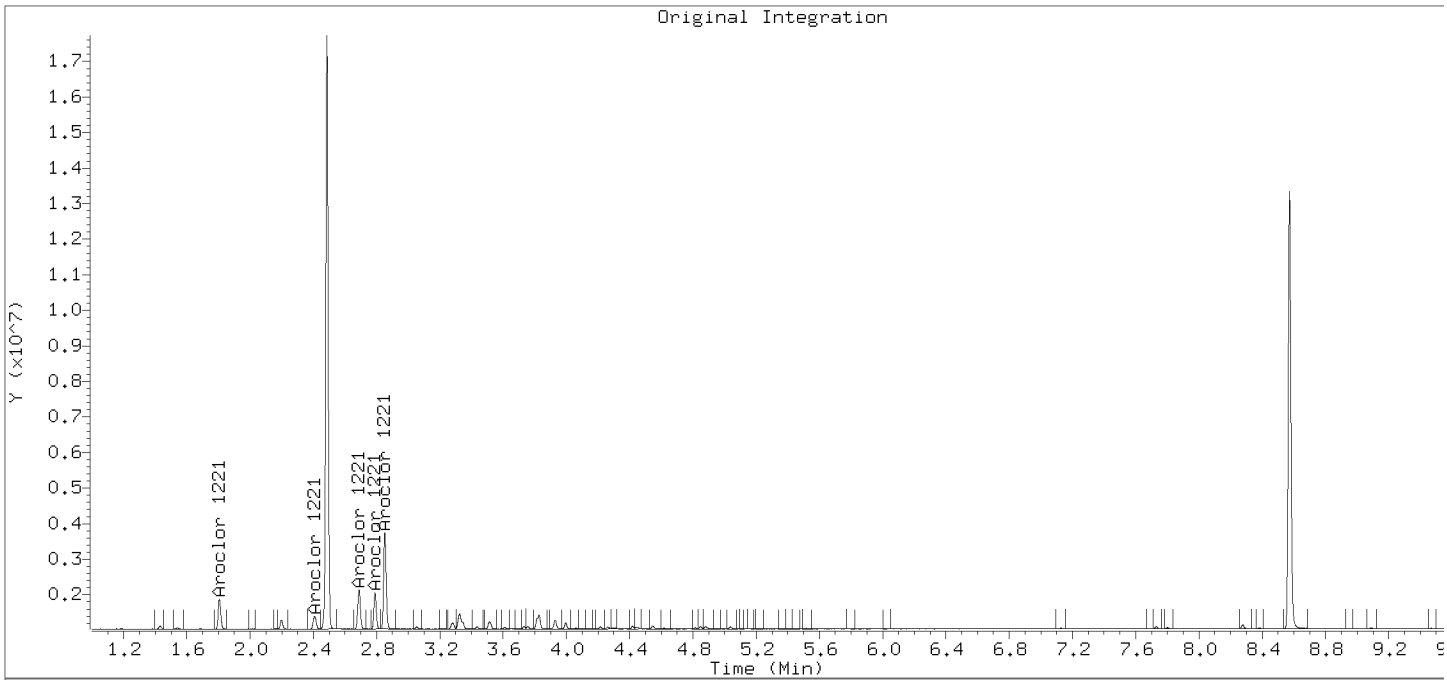
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

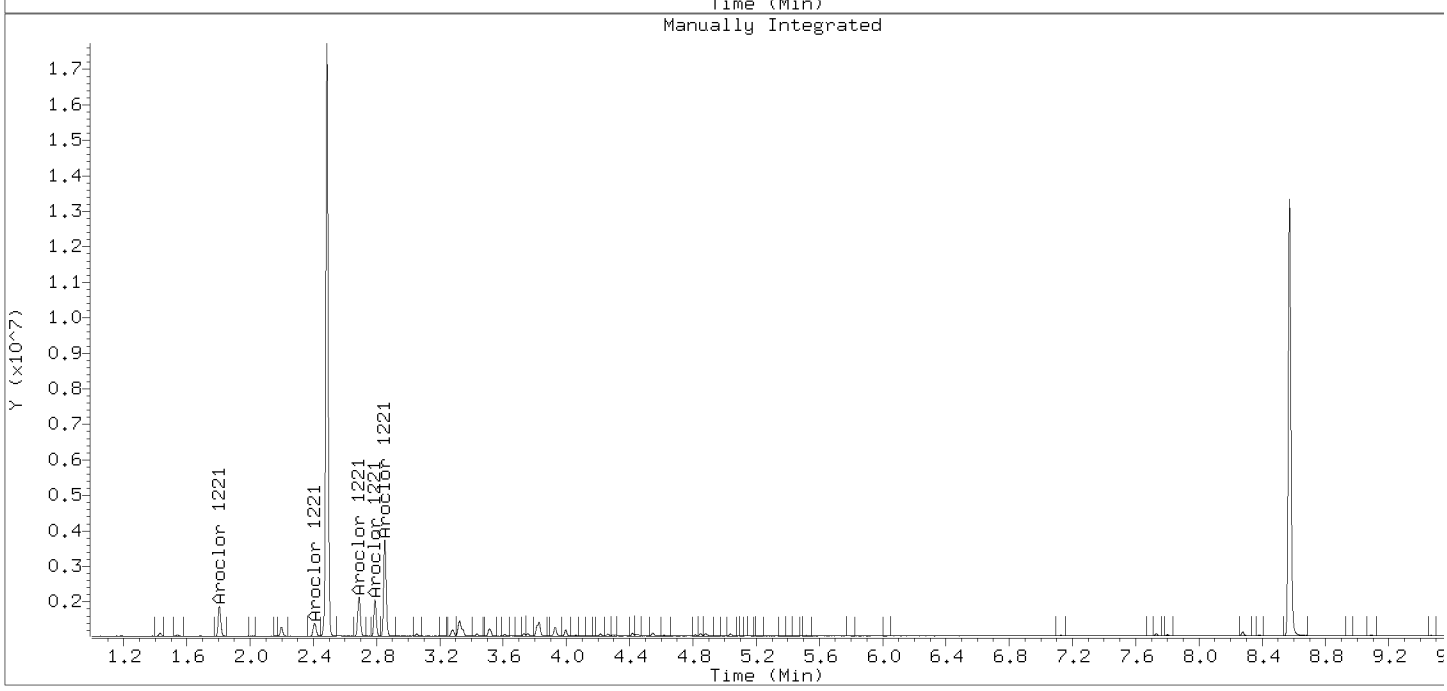
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

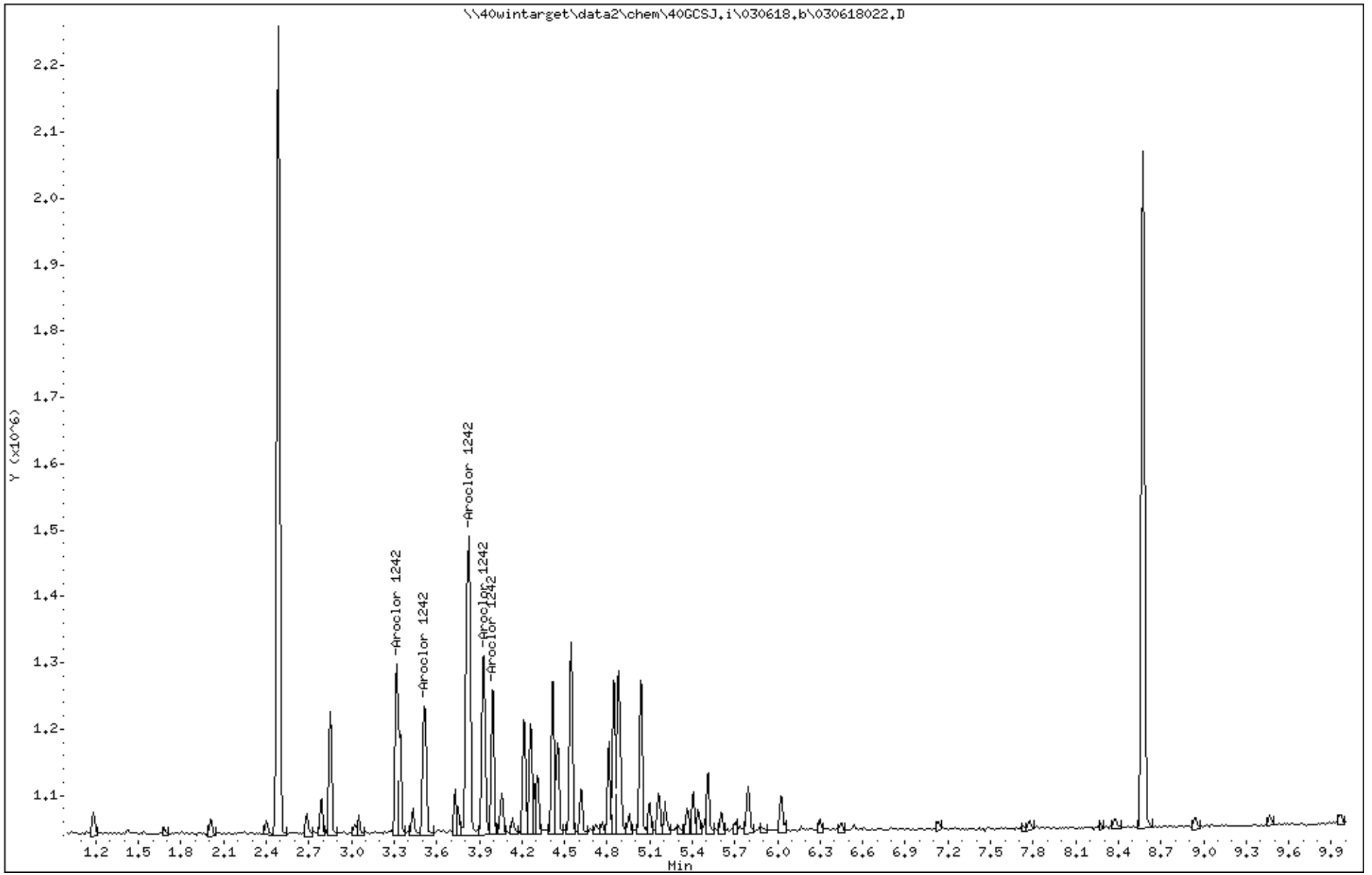
M - Compound response manually integrated.

Review Codes Legend

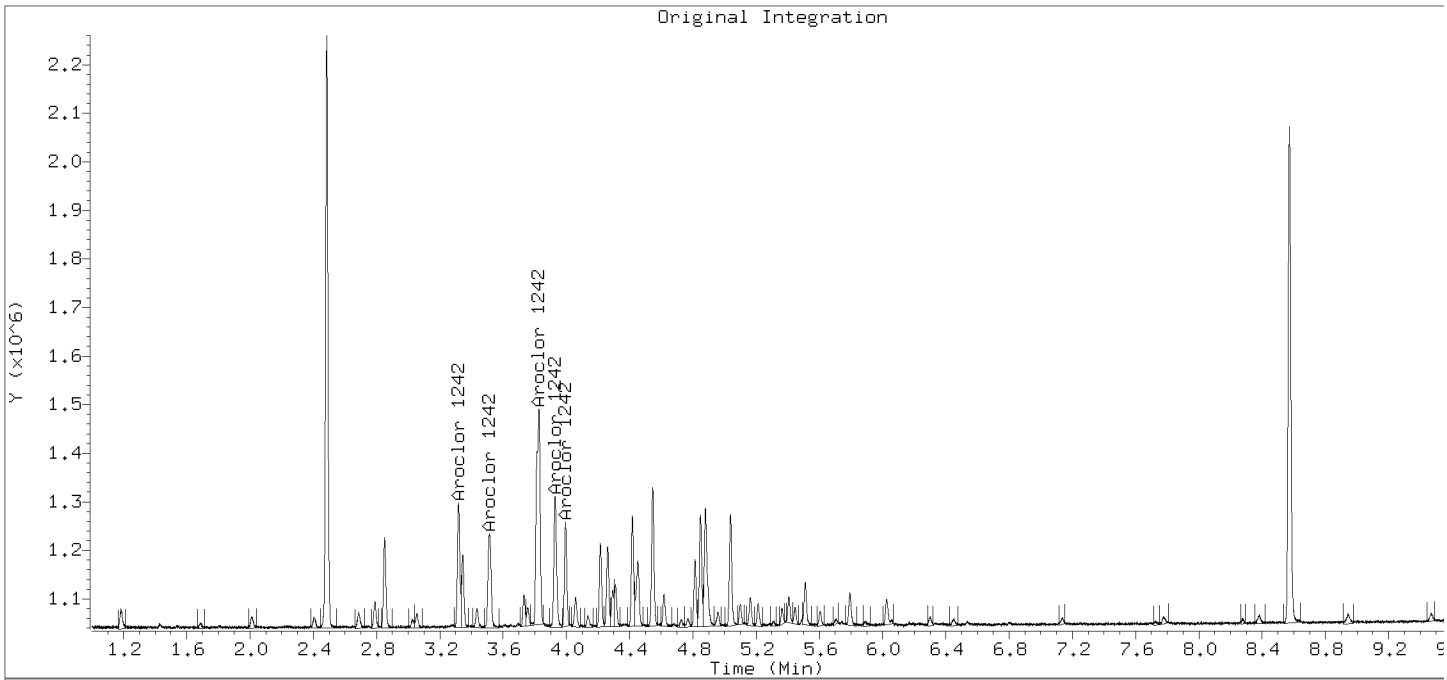
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

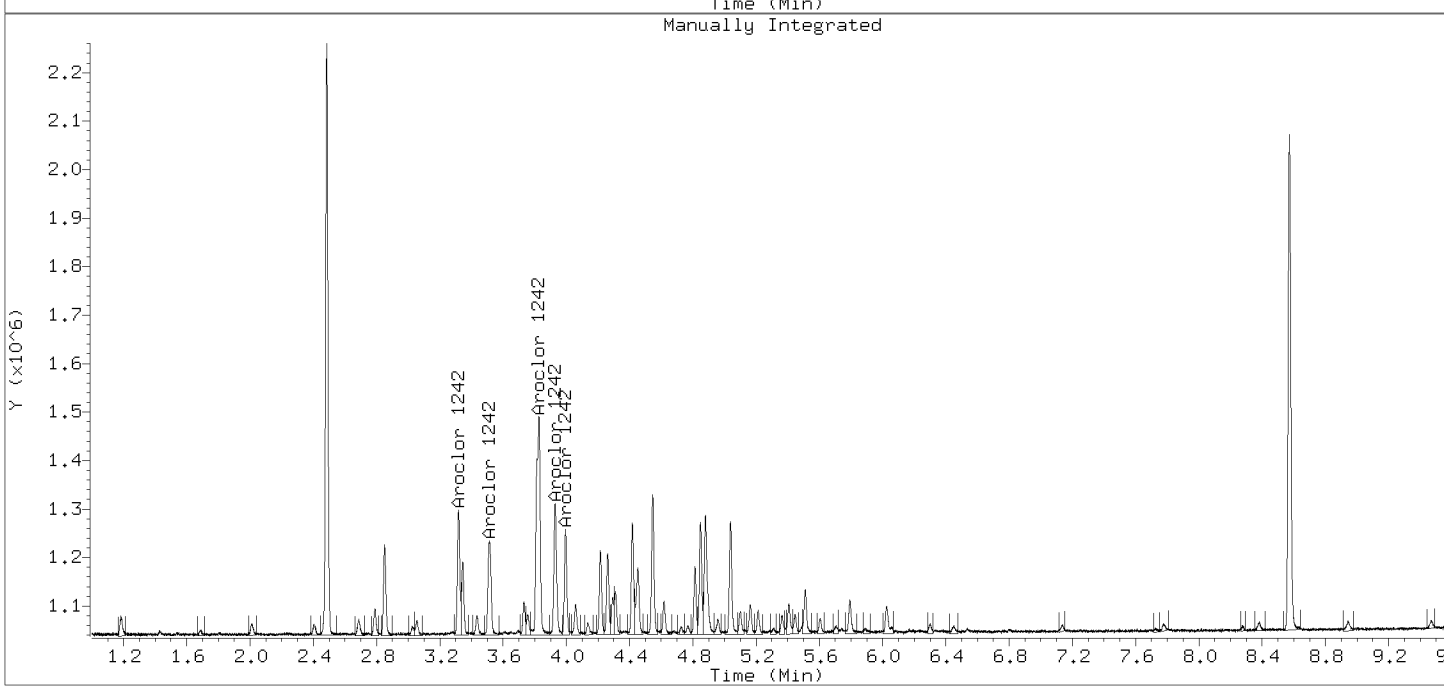
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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

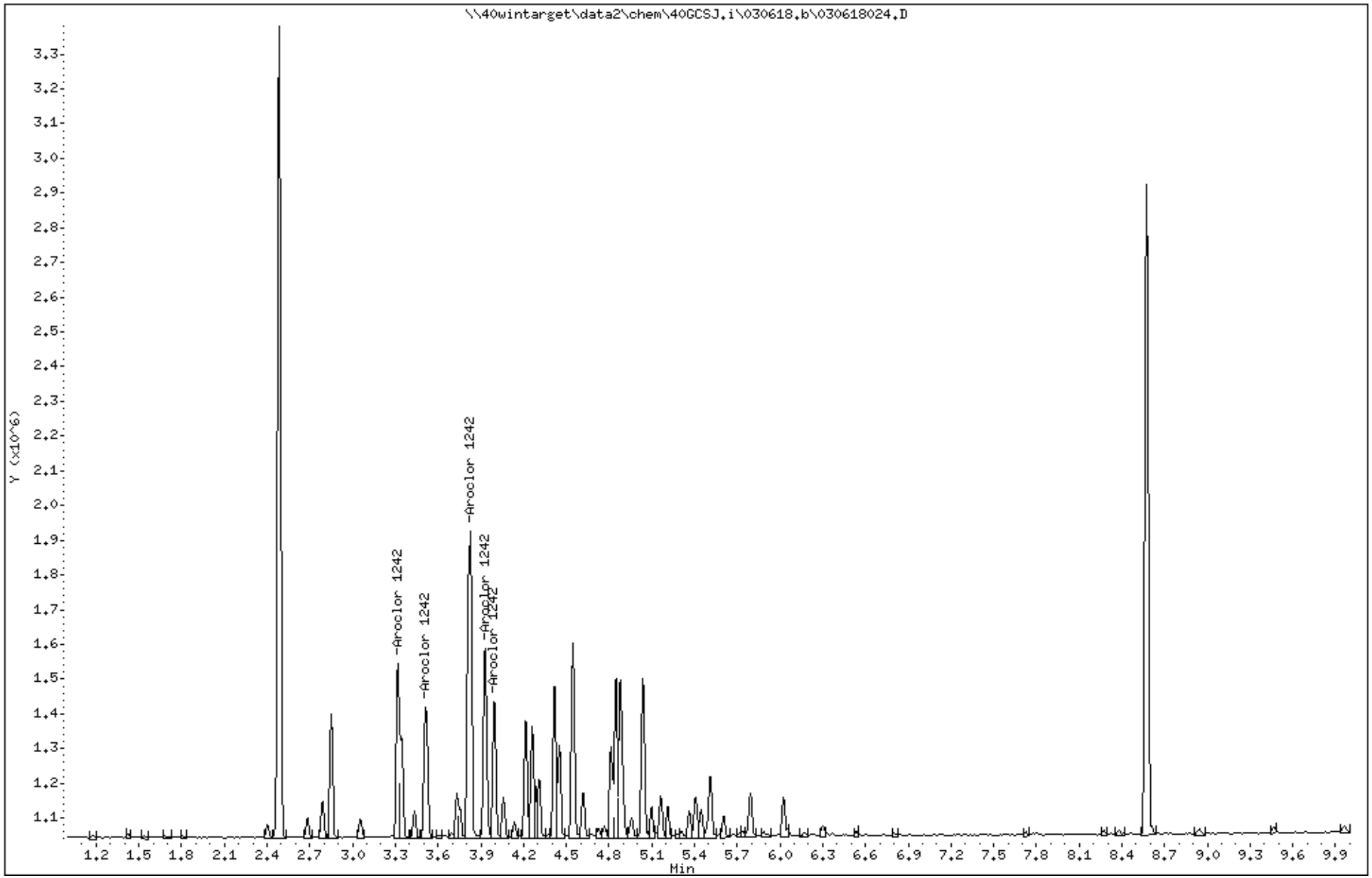
Instrument: 40GCSJ.i

Sample Info: 1242-CAL2B, 185543:1

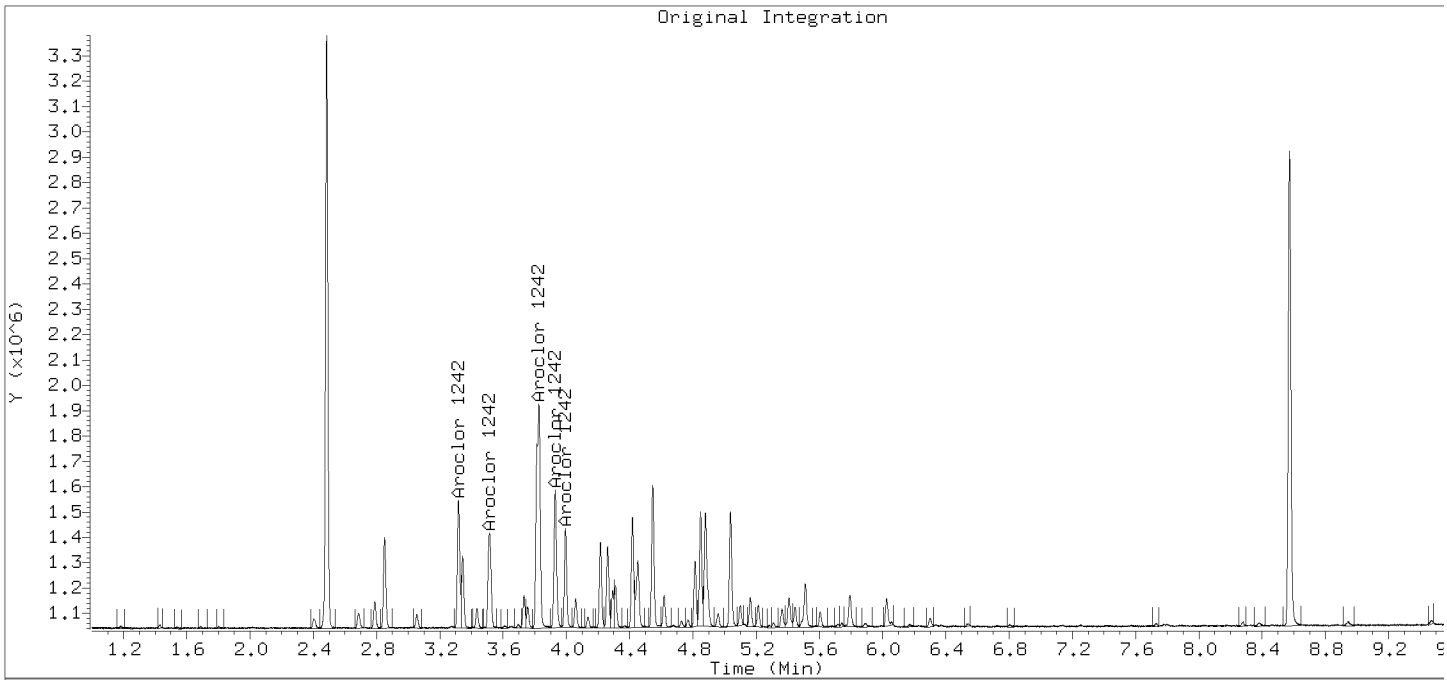
Operator: BLM

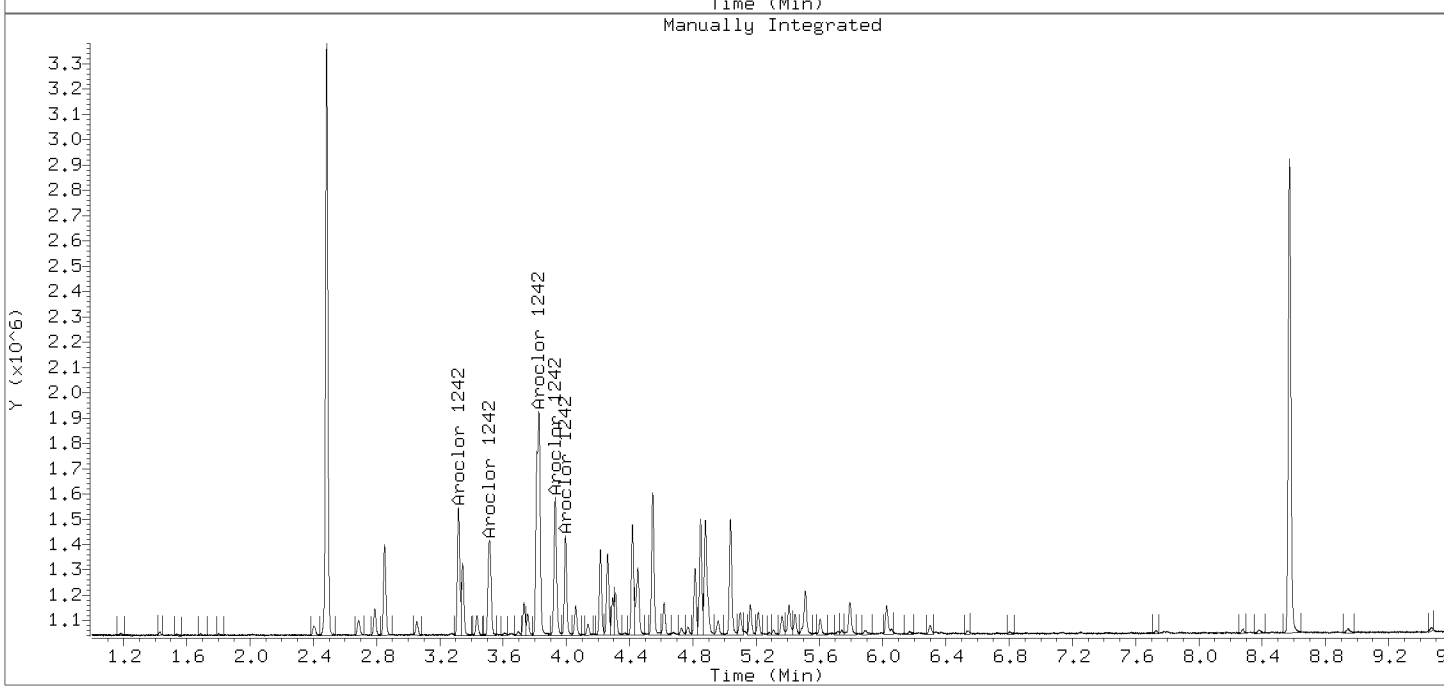
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

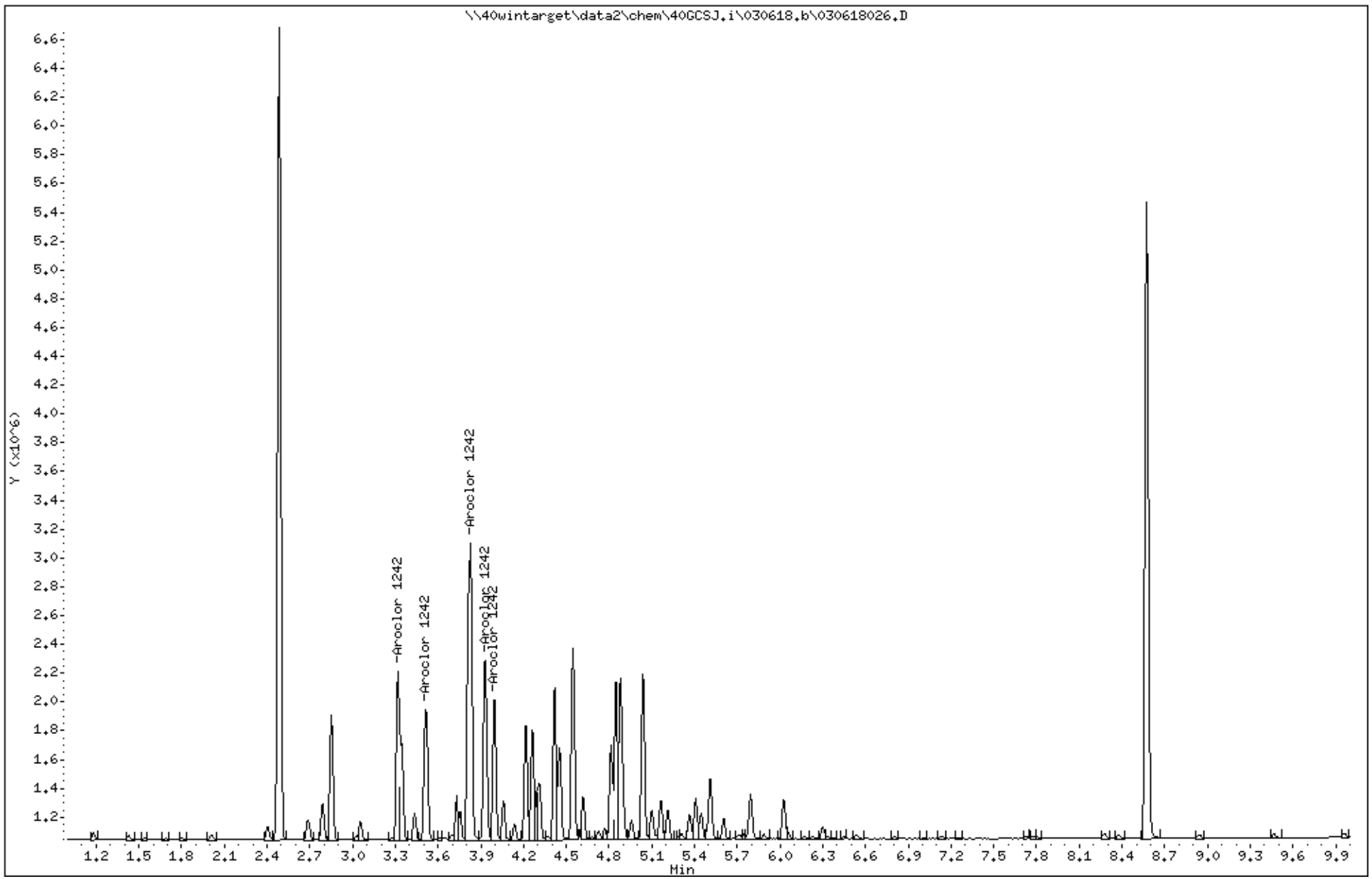
M - Compound response manually integrated.

Review Codes Legend

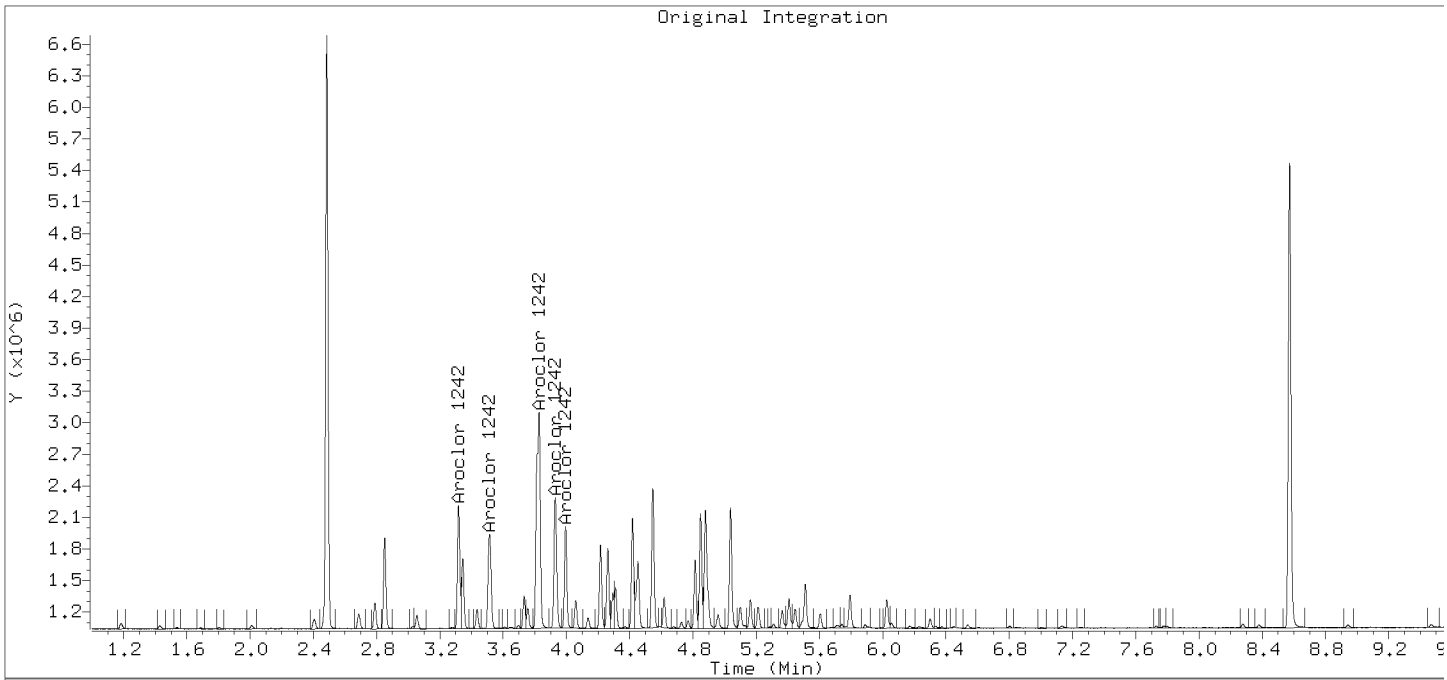
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

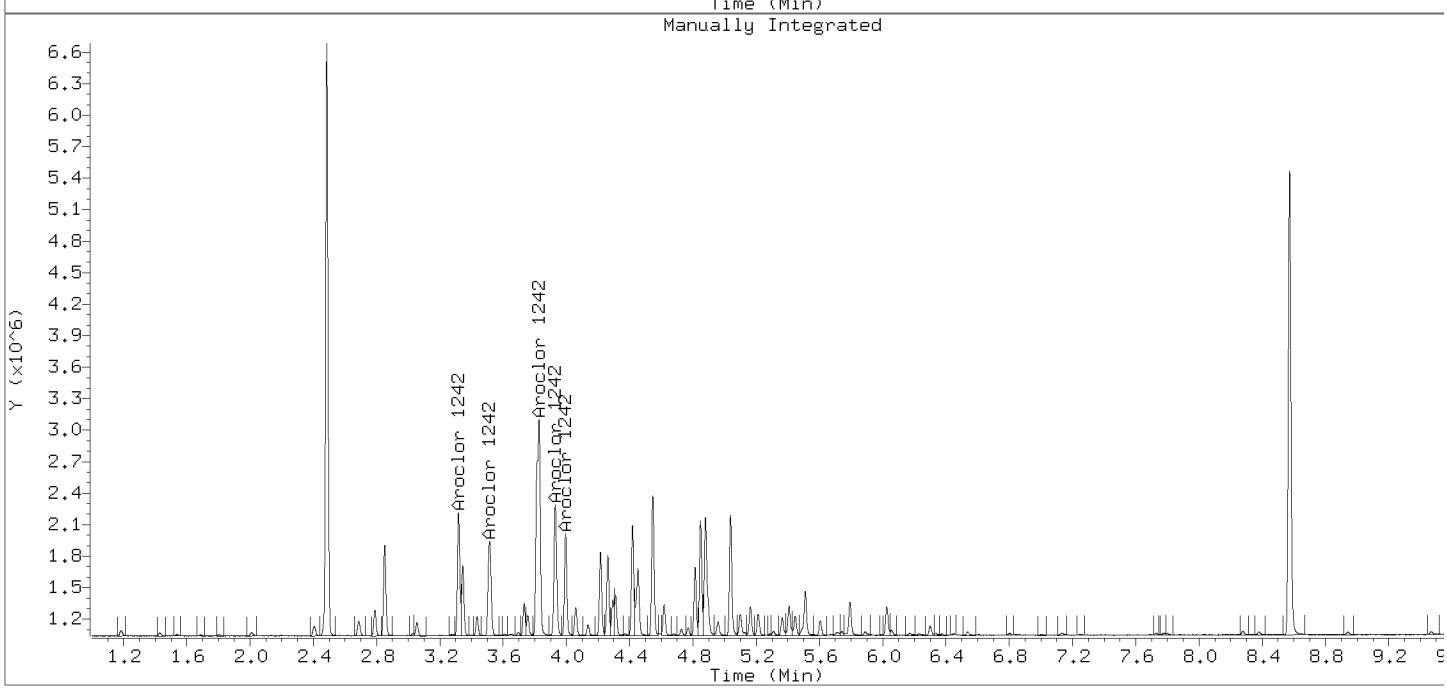
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

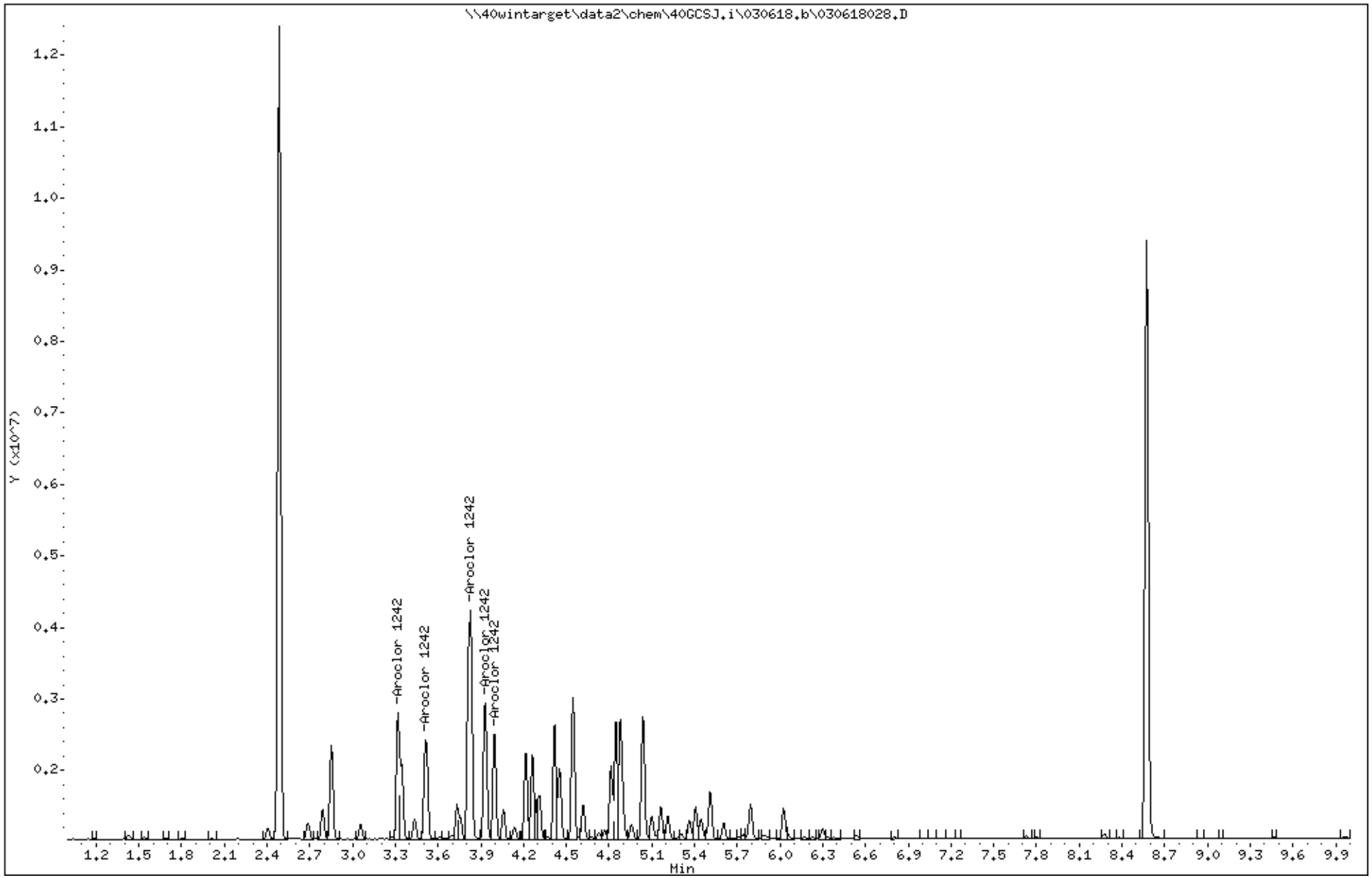
M - Compound response manually integrated.

Review Codes Legend

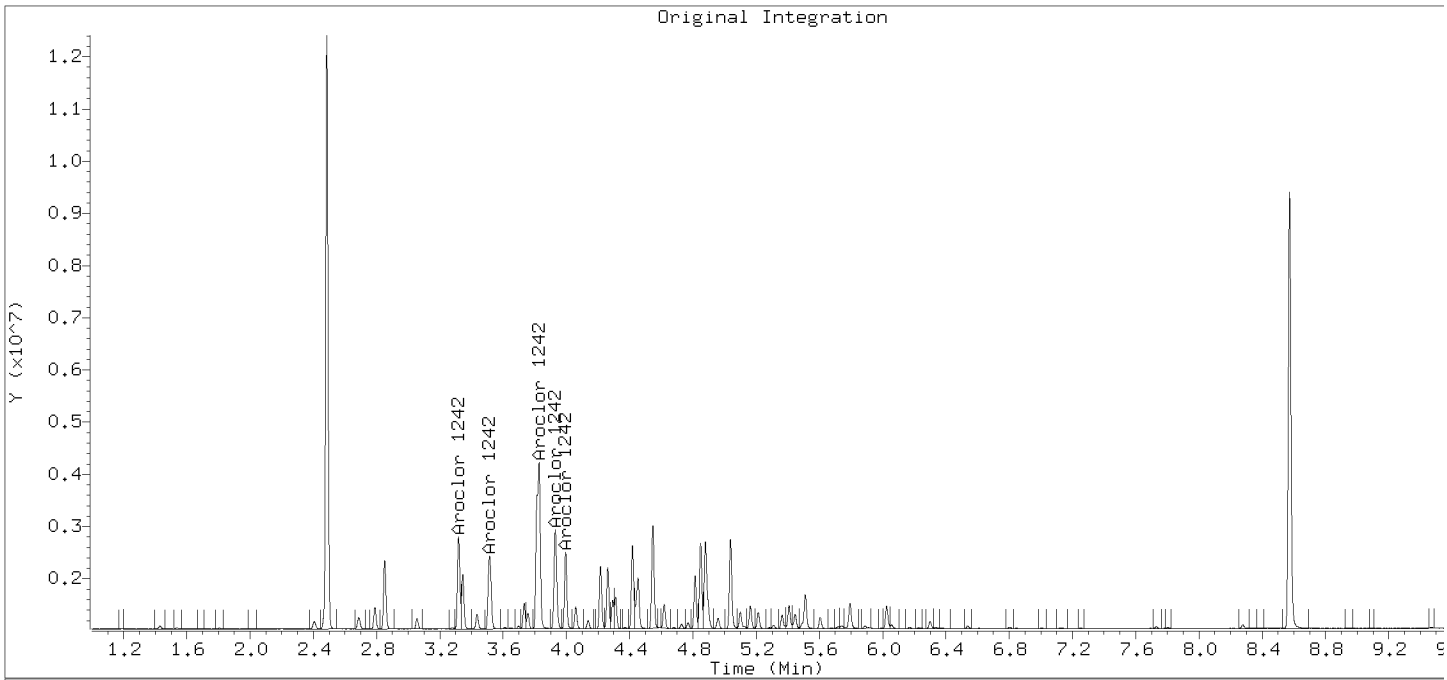
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

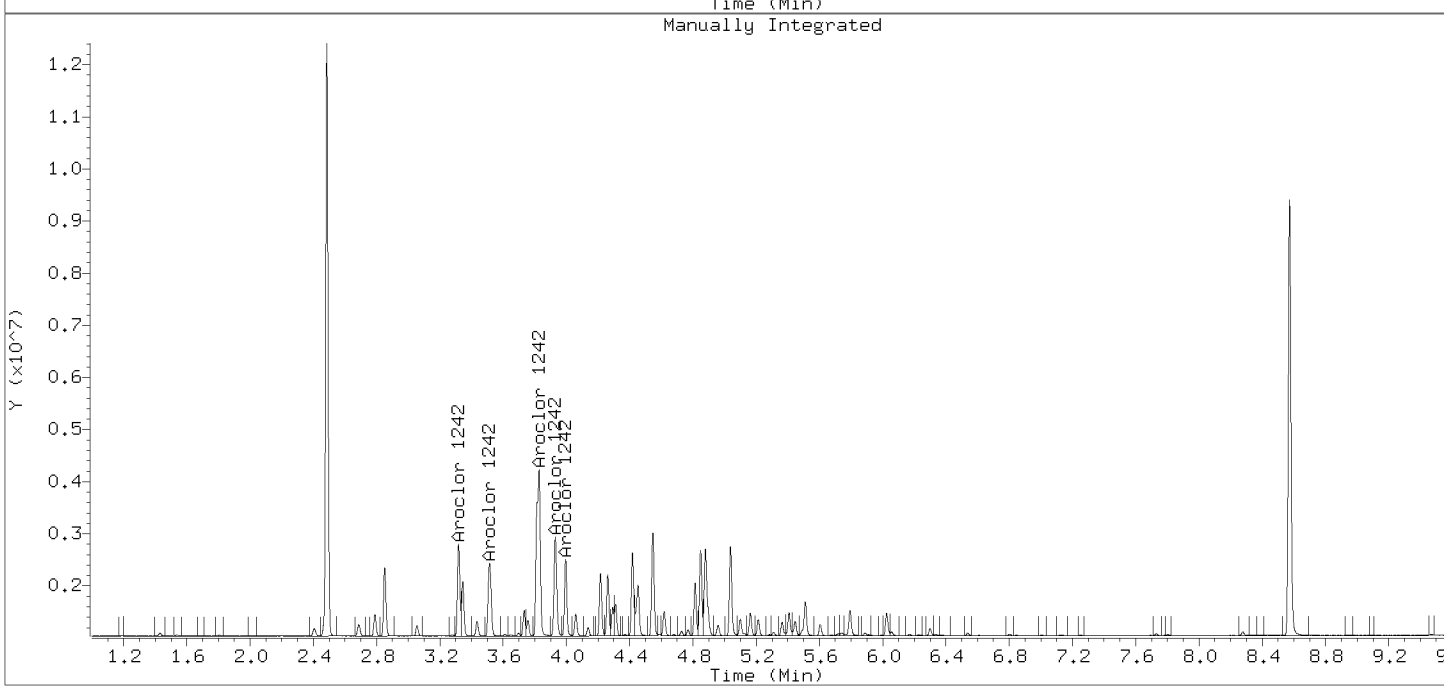
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Date : 06-MAR-2018 14:32
Client ID: 1242-CAL4B
Sample Info: 1242-CAL4B, 185545:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

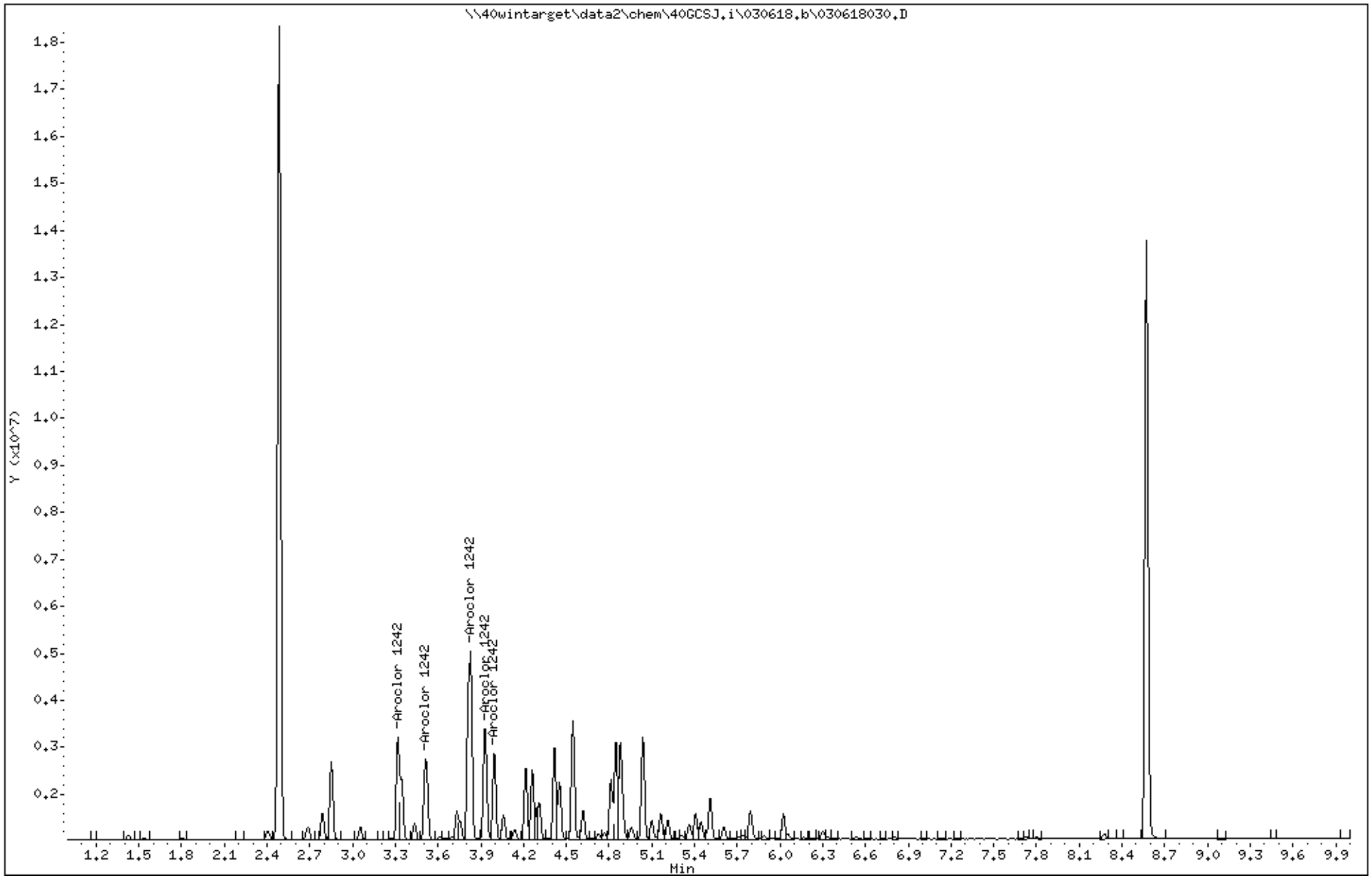
M - Compound response manually integrated.

Review Codes Legend

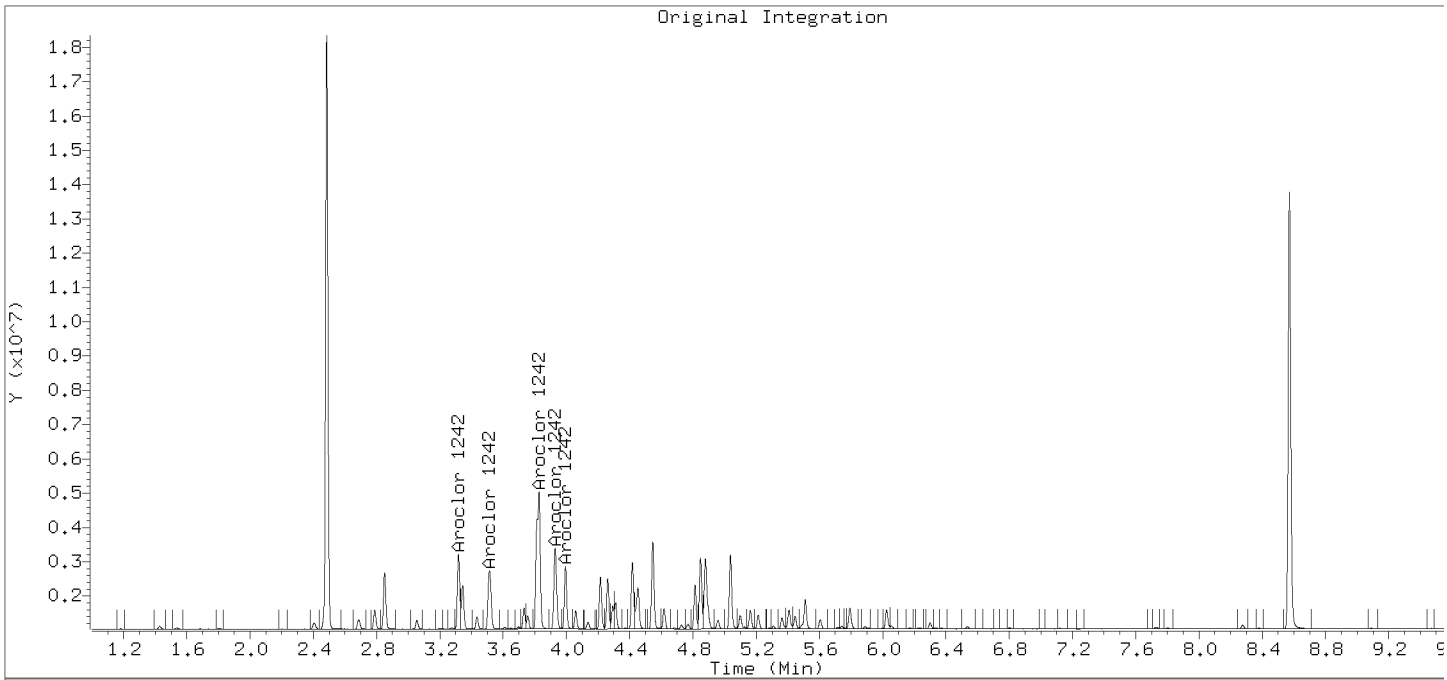
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

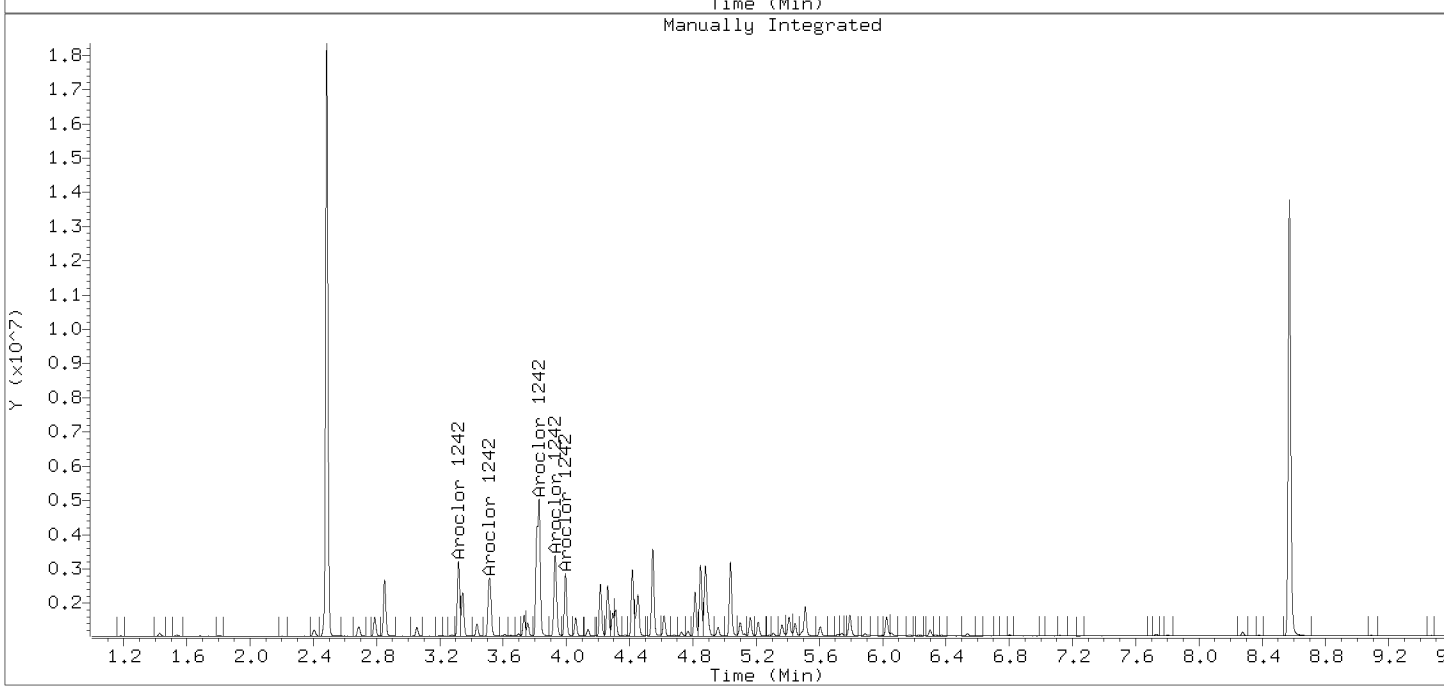
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

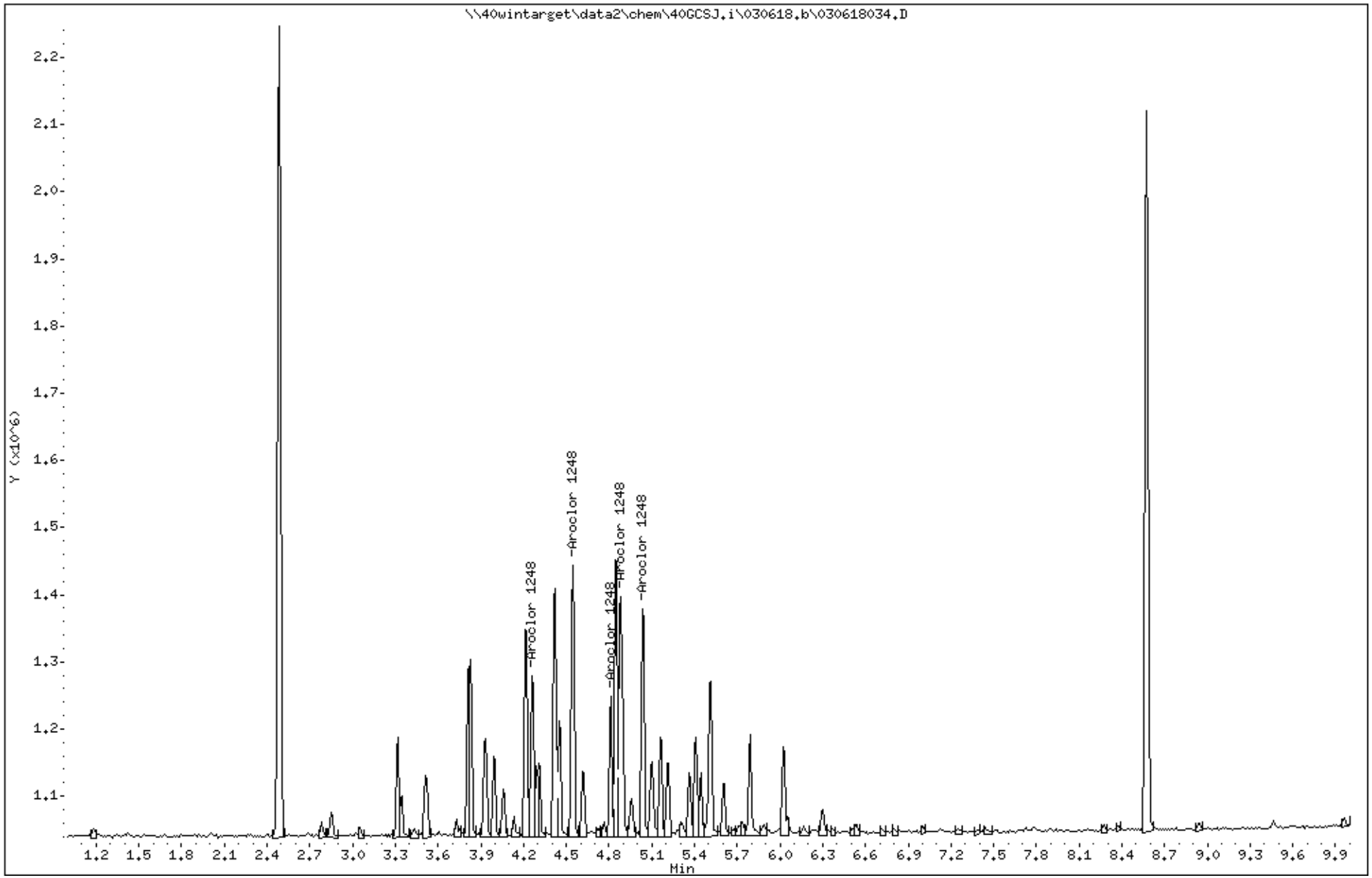
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

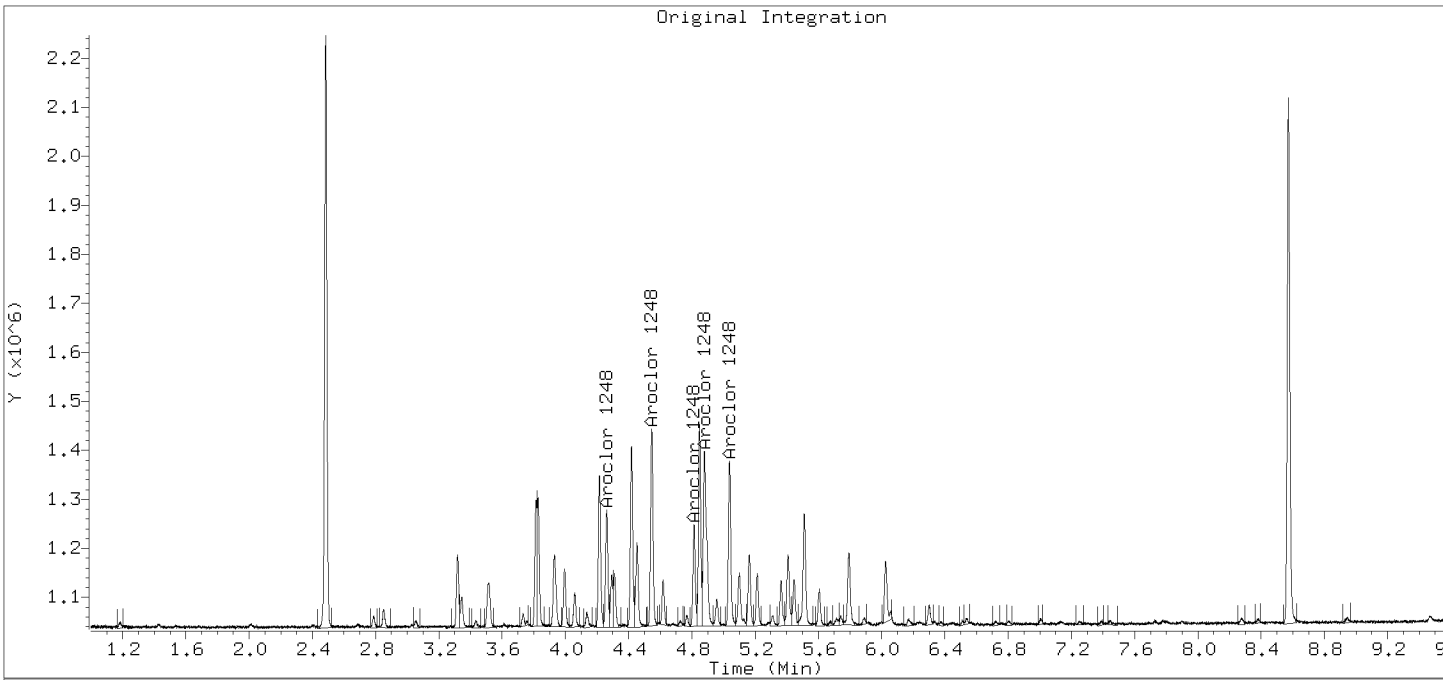
Operator: BLM

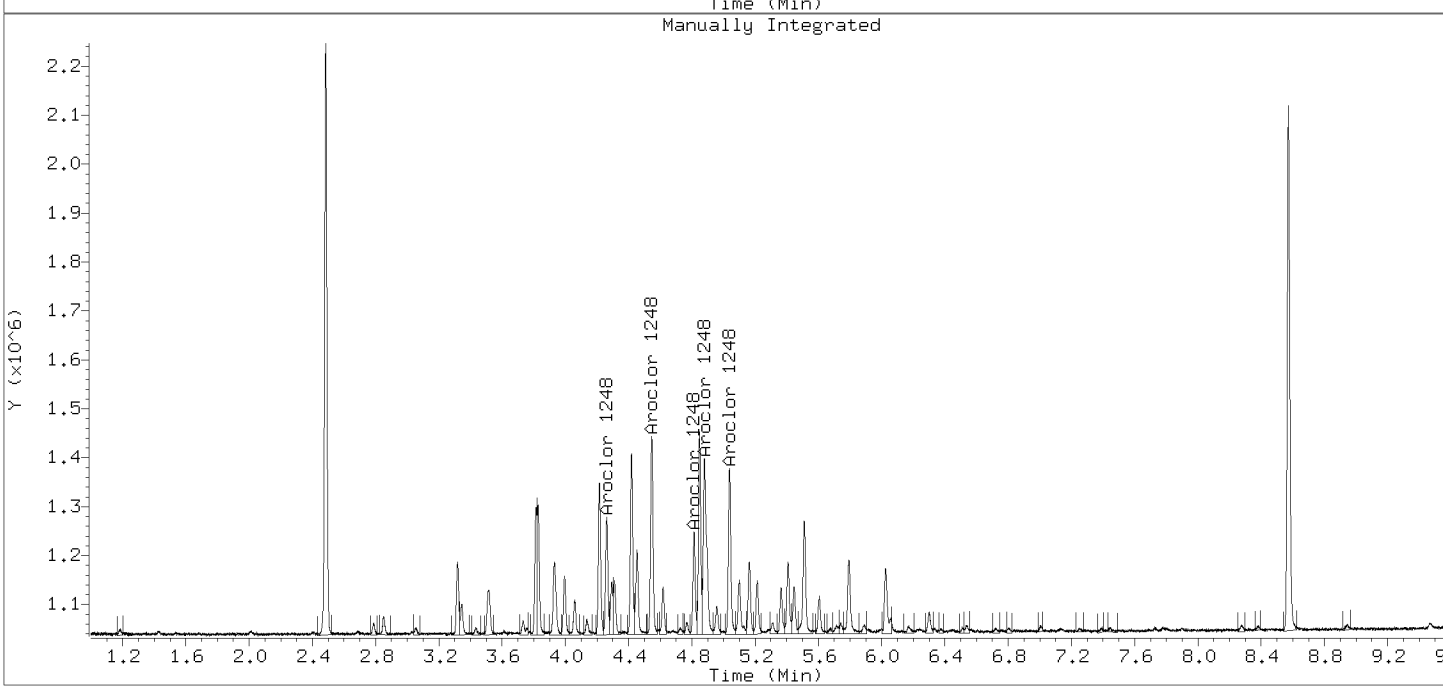
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D Page 2
Report Date: 22-Mar-2018 13:34

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

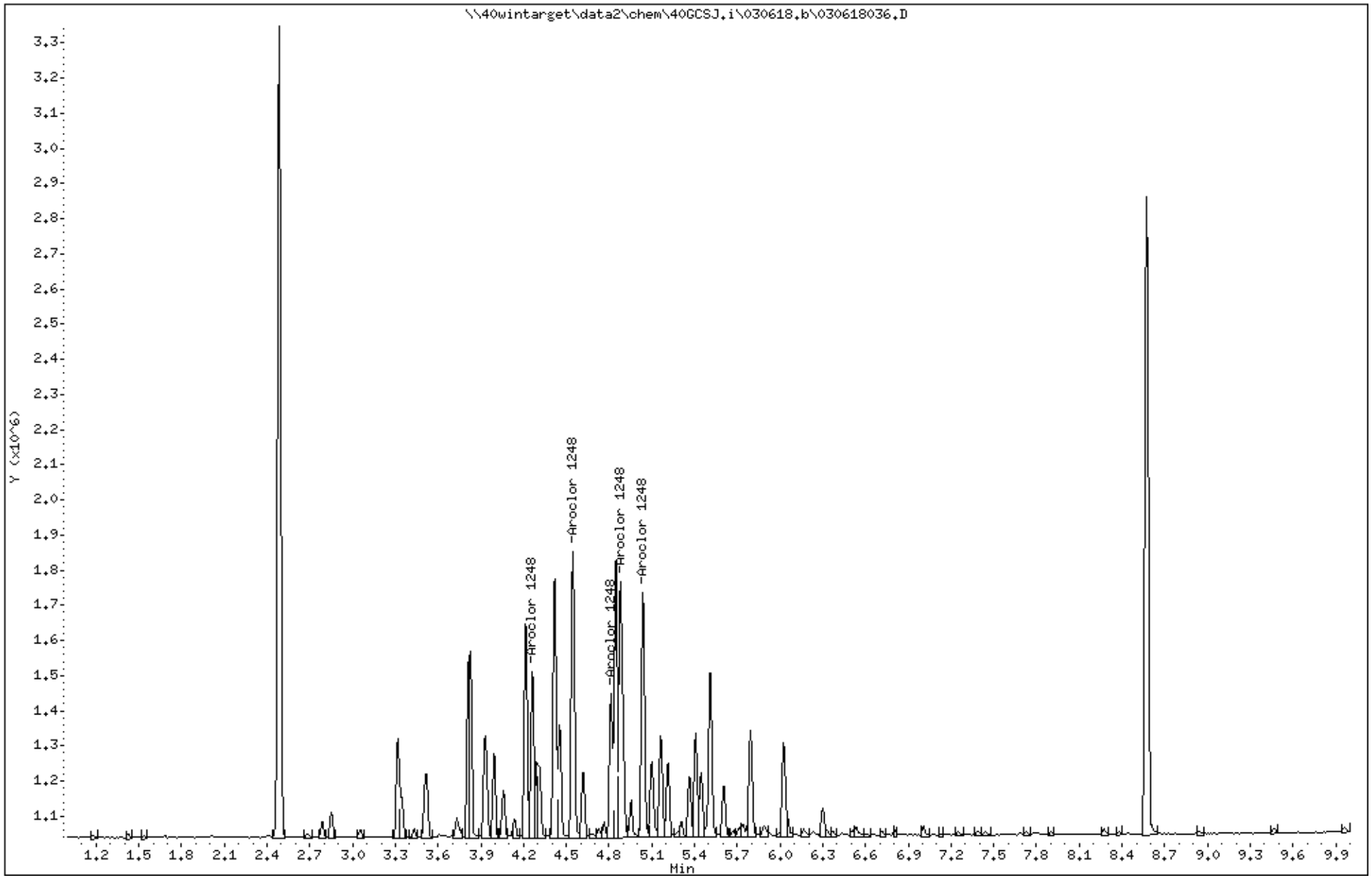
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

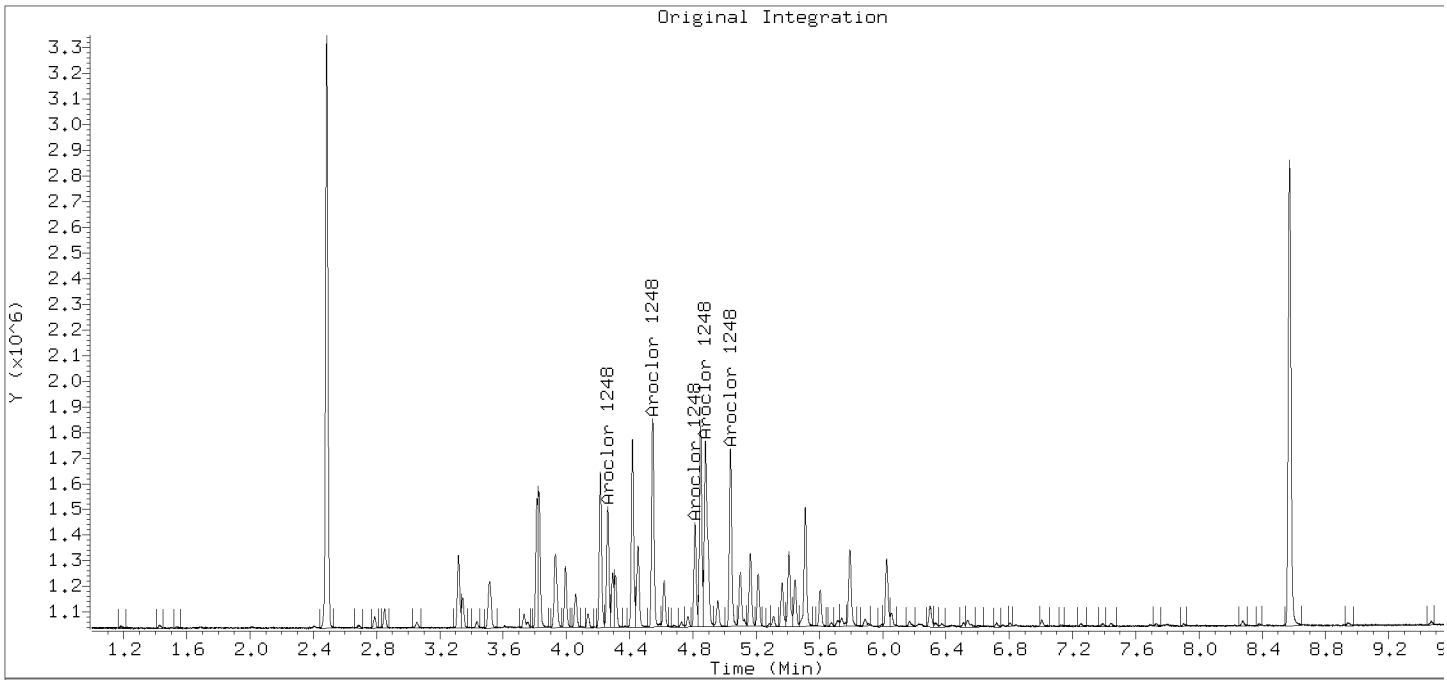
Operator: BLM

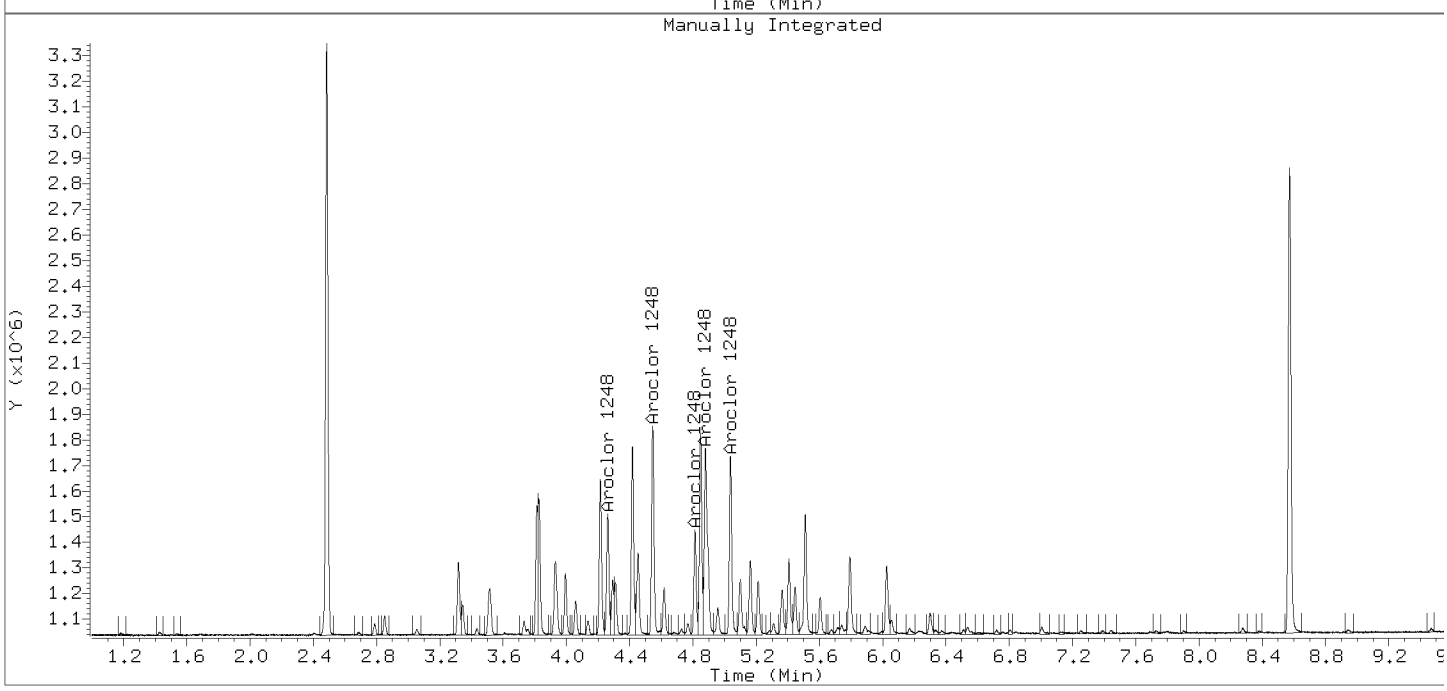
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

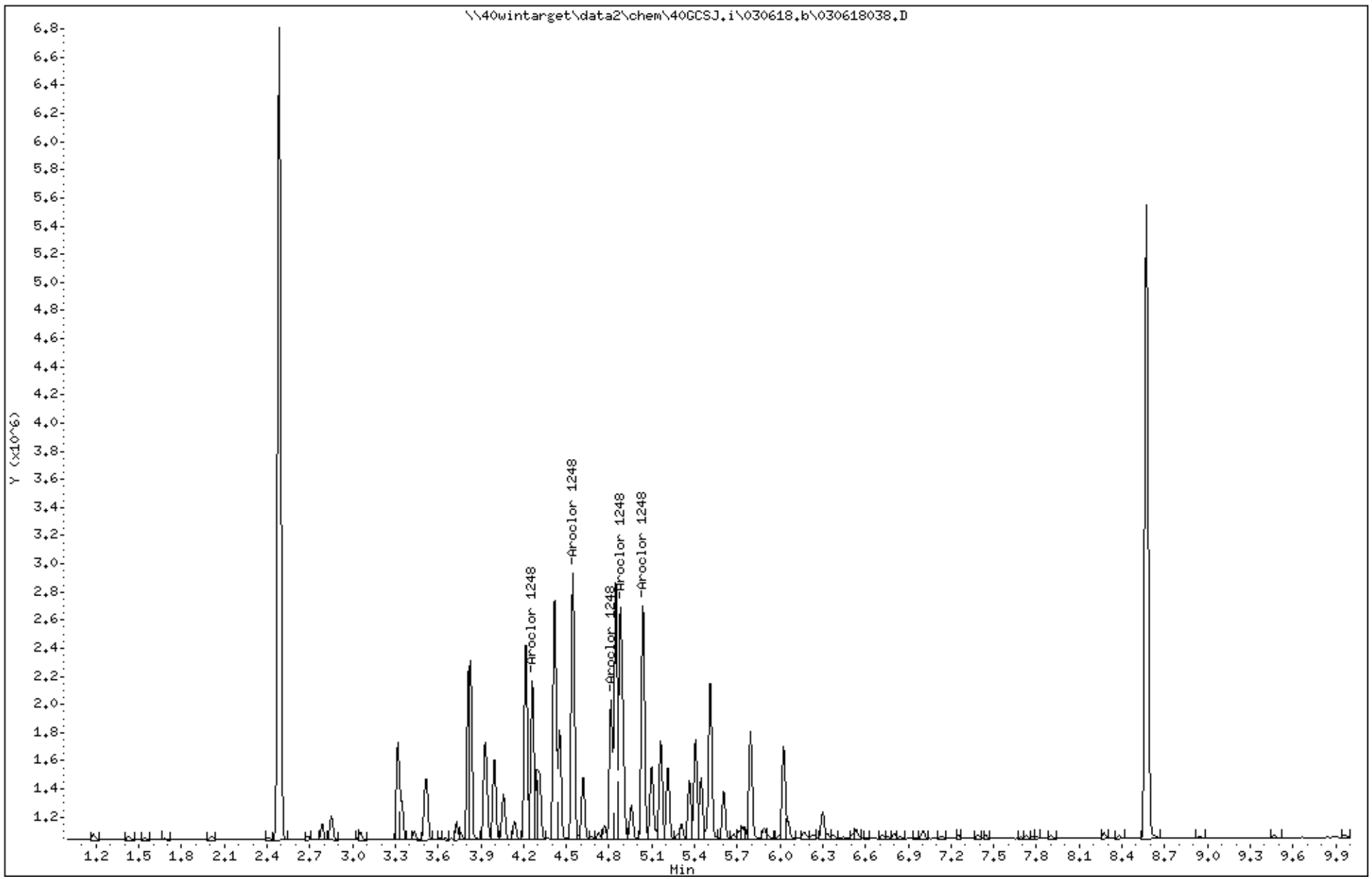
M - Compound response manually integrated.

Review Codes Legend

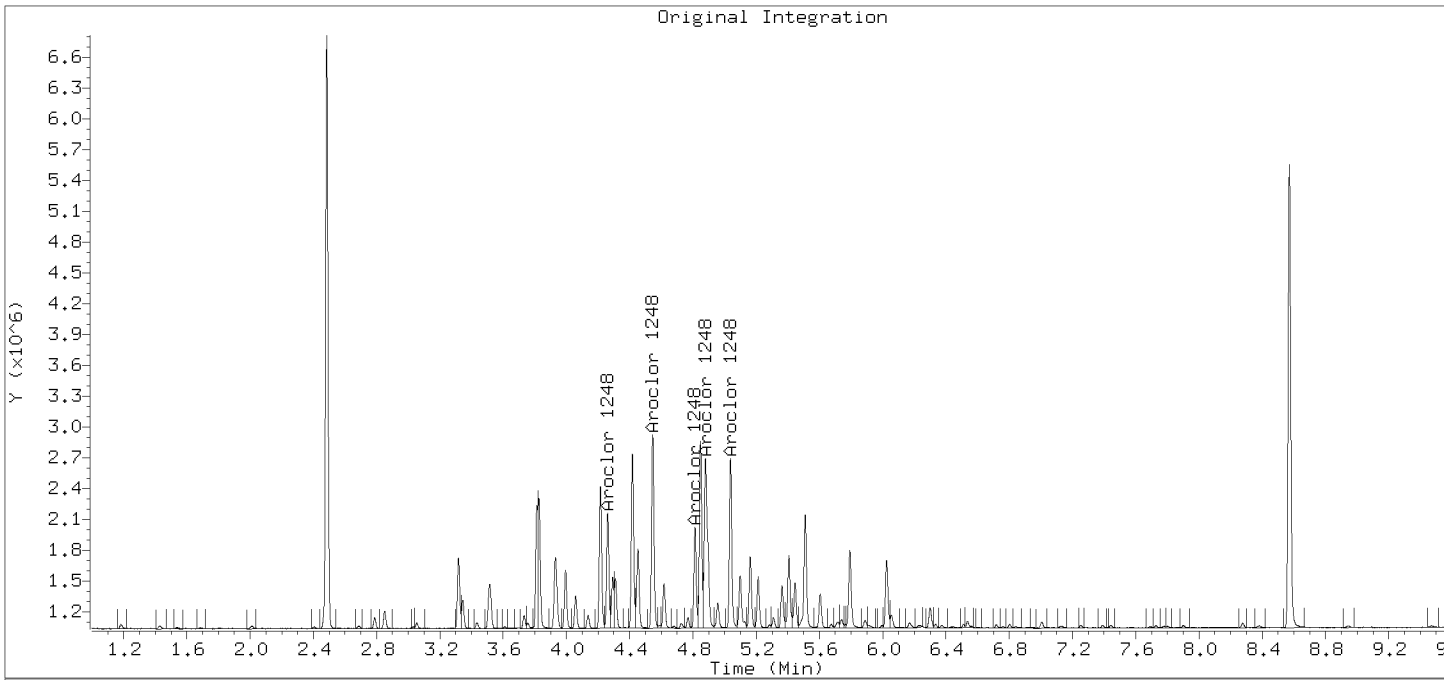
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

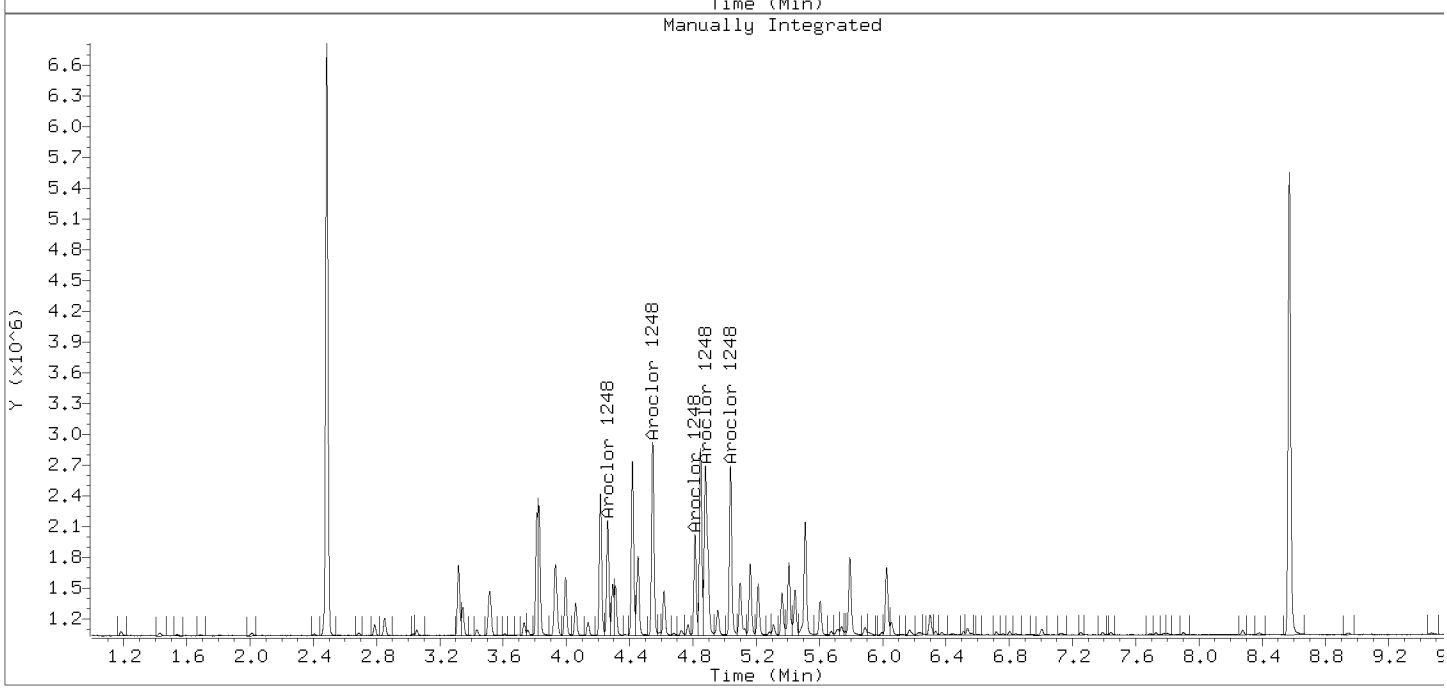
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

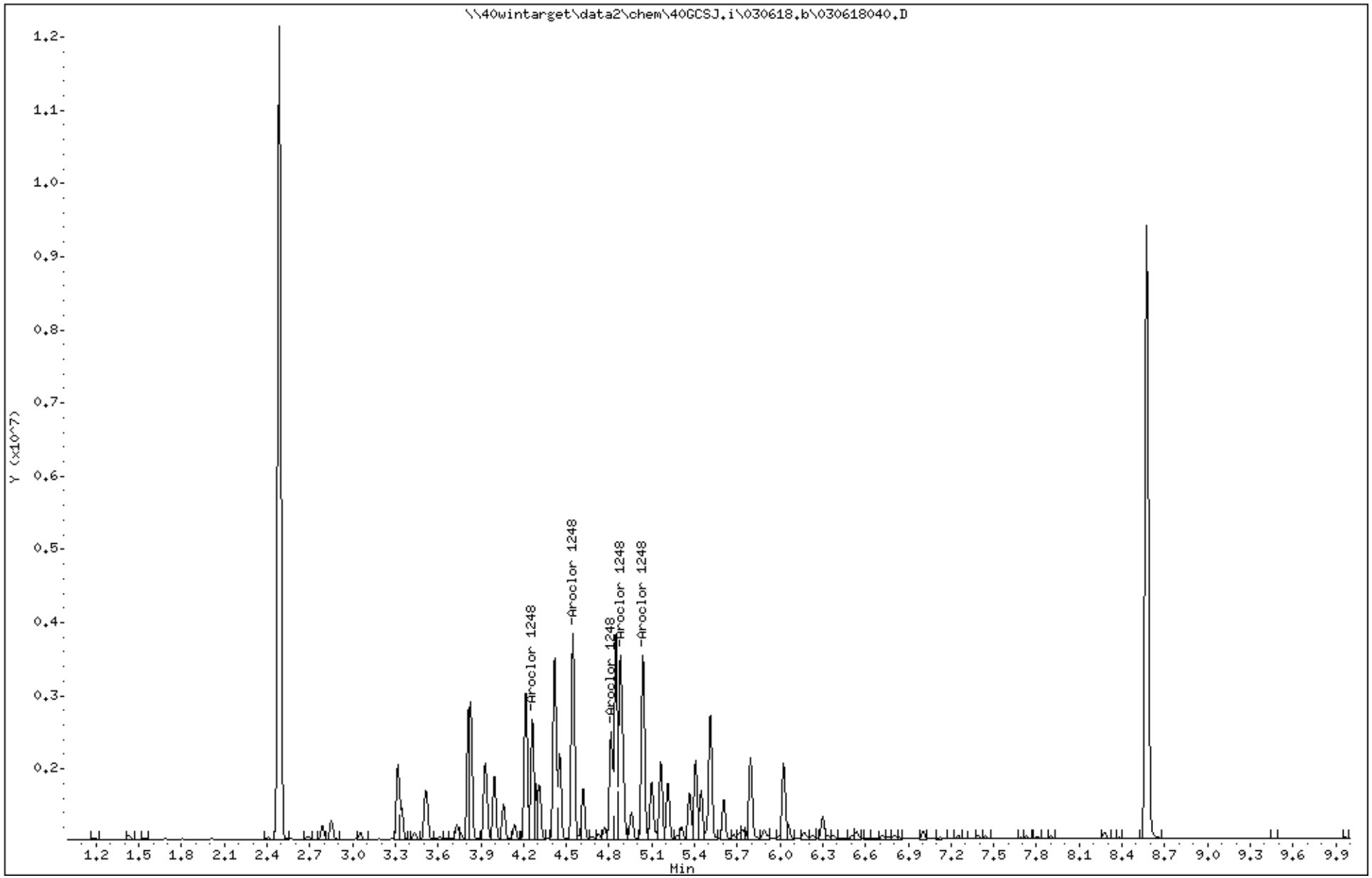
M - Compound response manually integrated.

Review Codes Legend

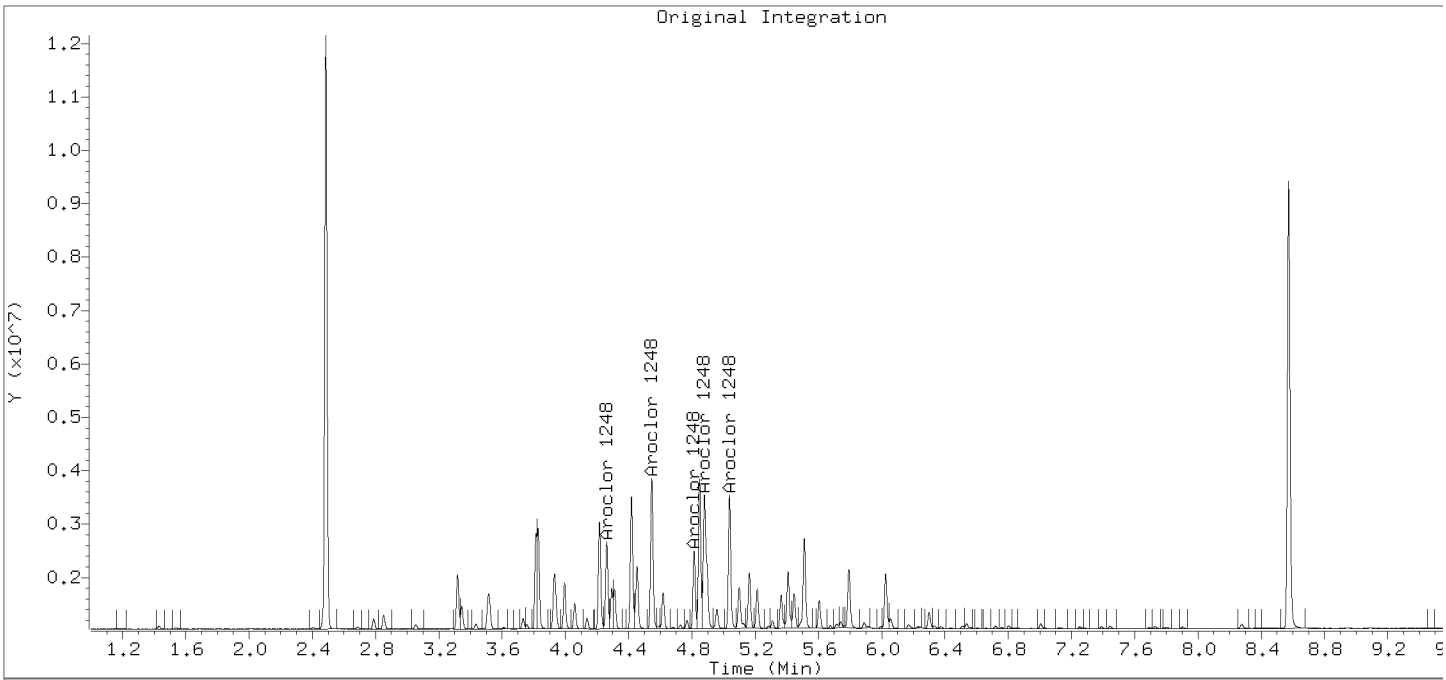
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

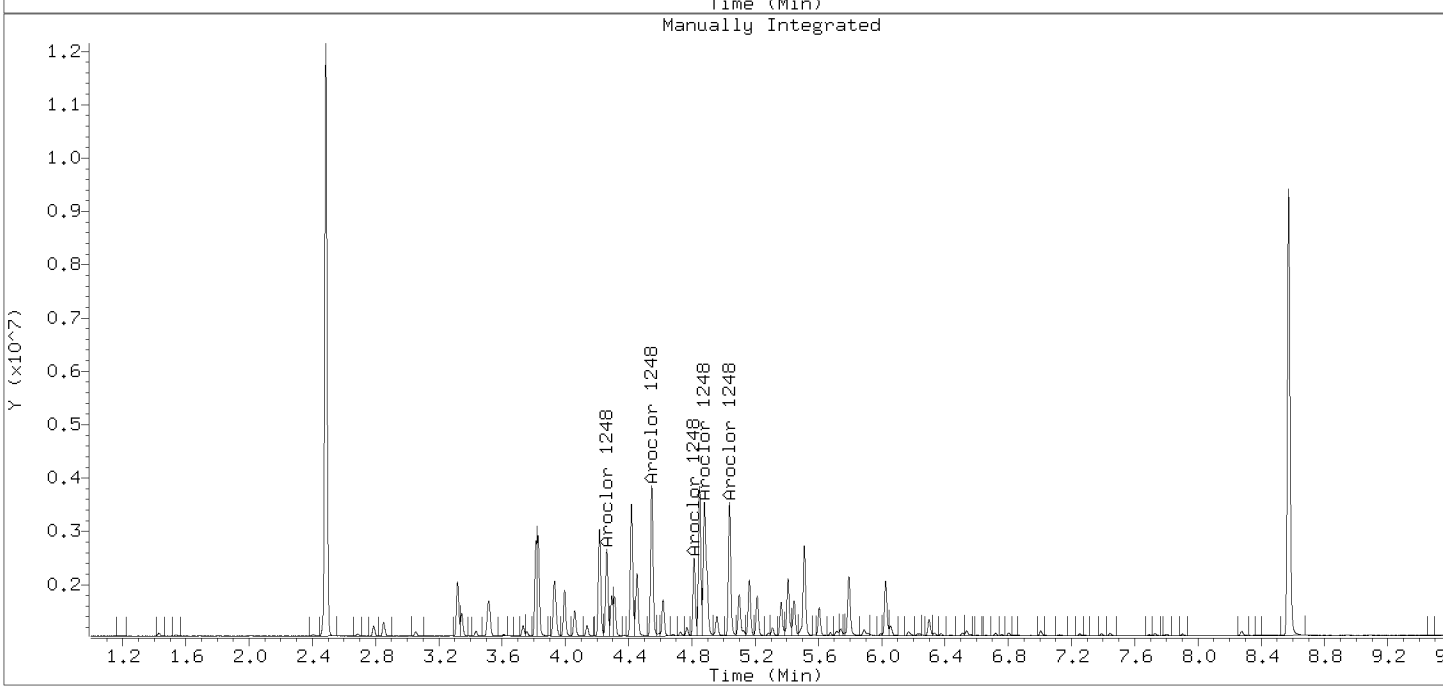
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Date : 06-MAR-2018 16:09
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

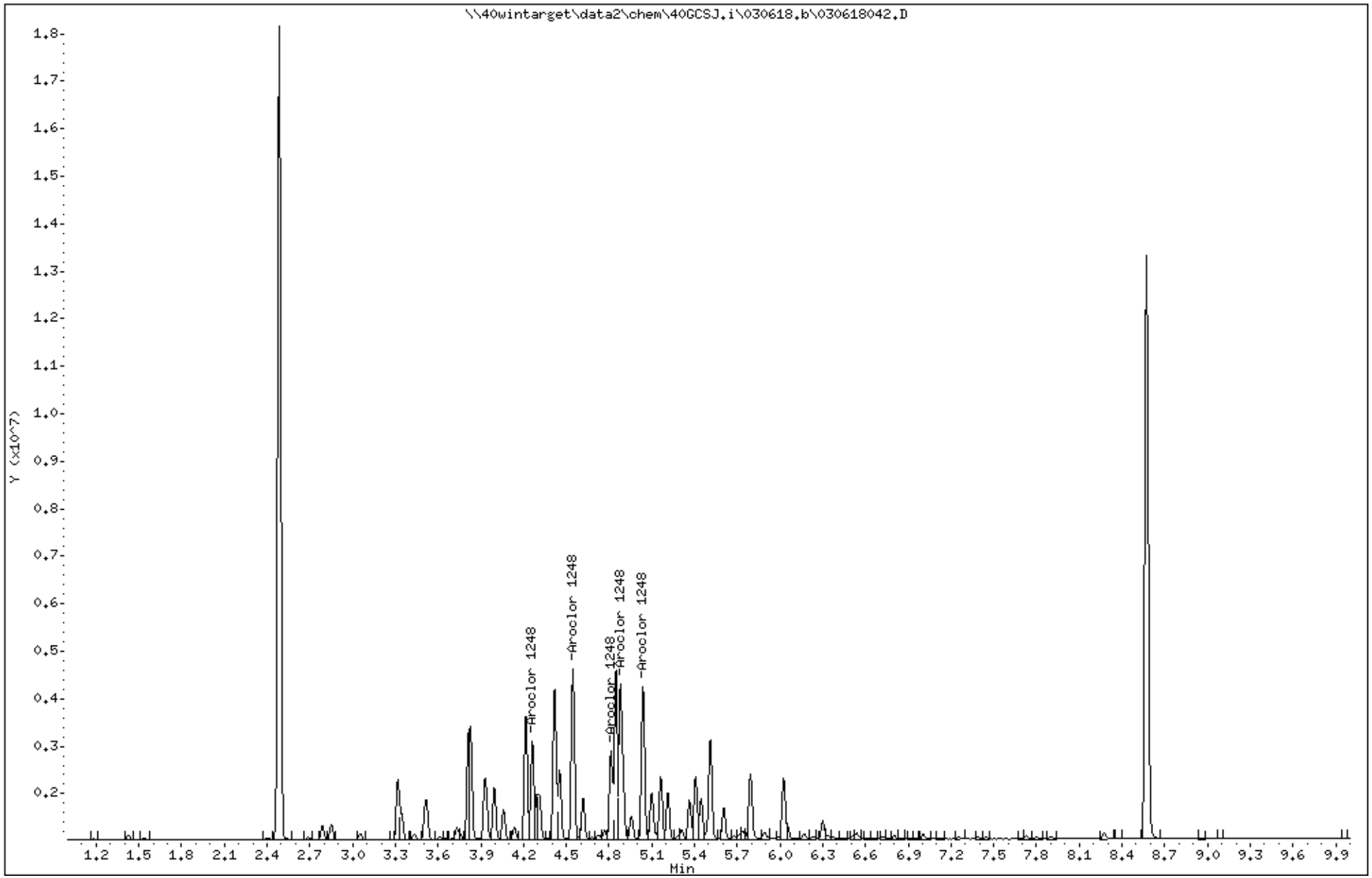
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

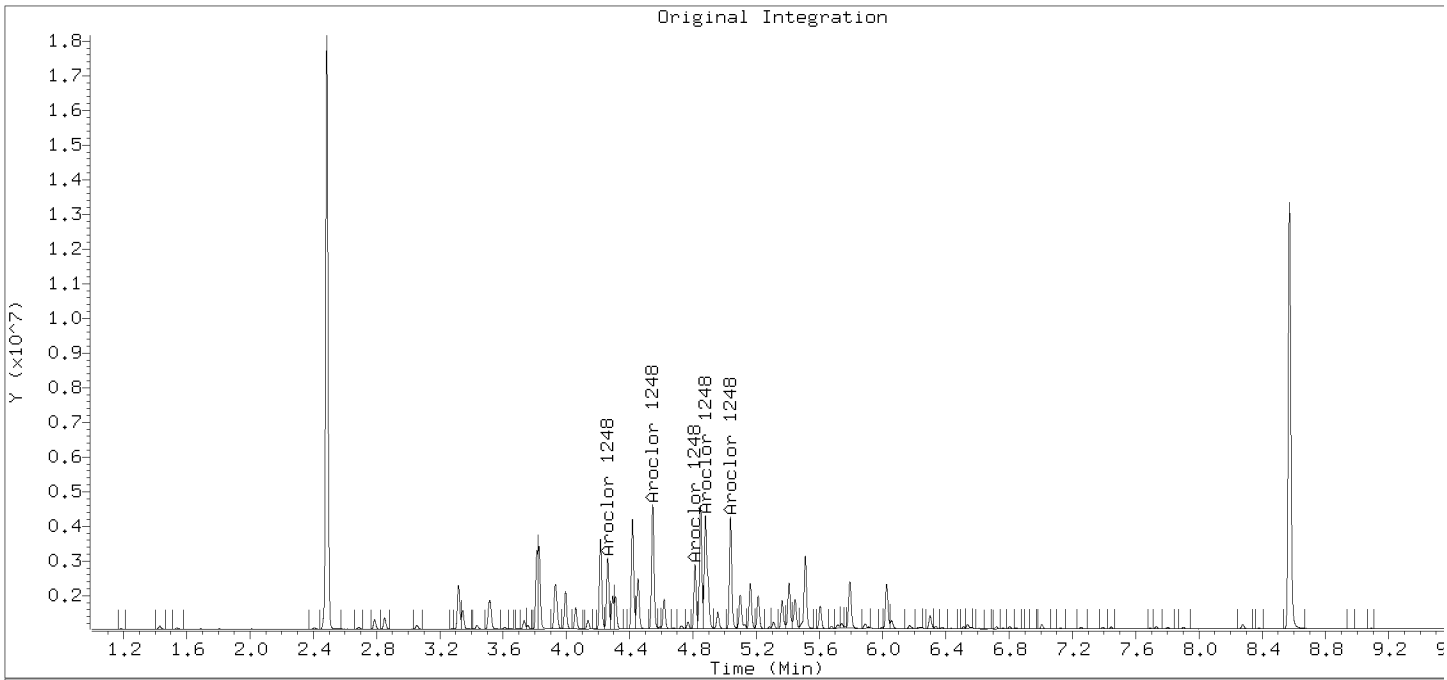
Operator: BLM

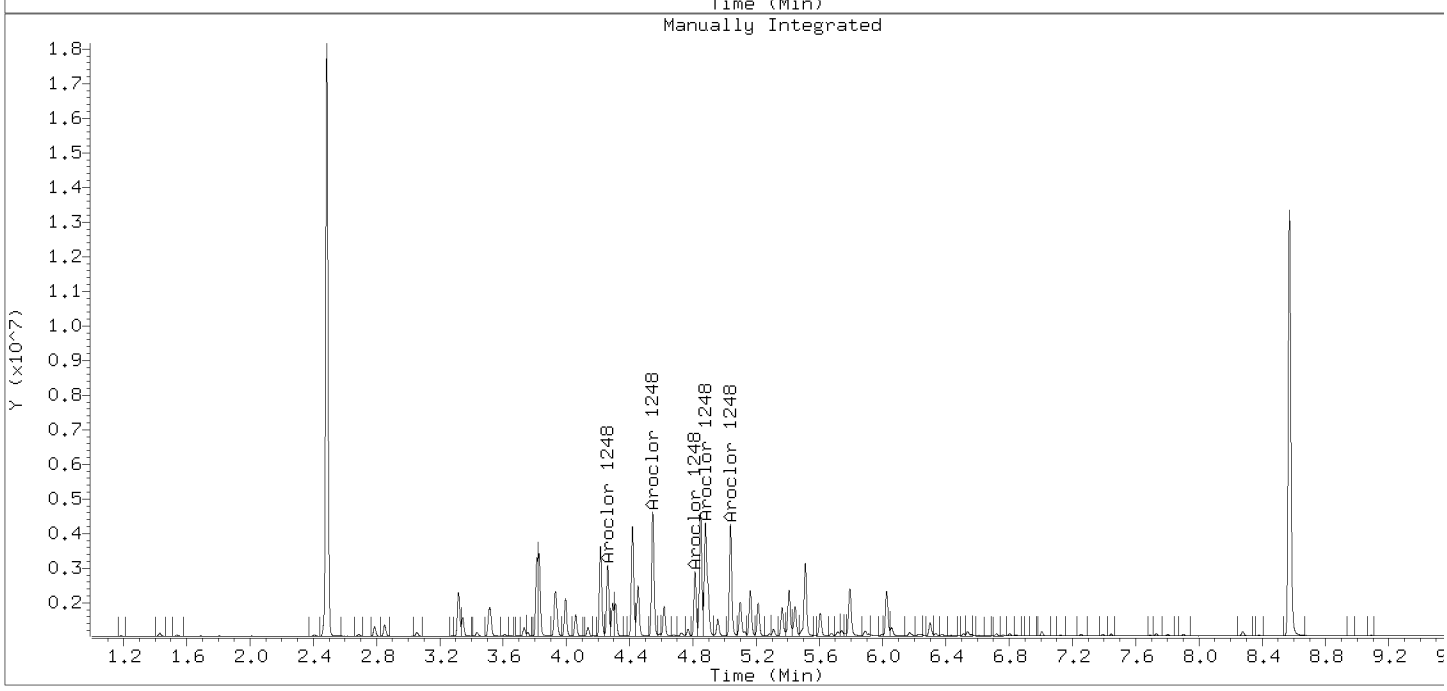
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

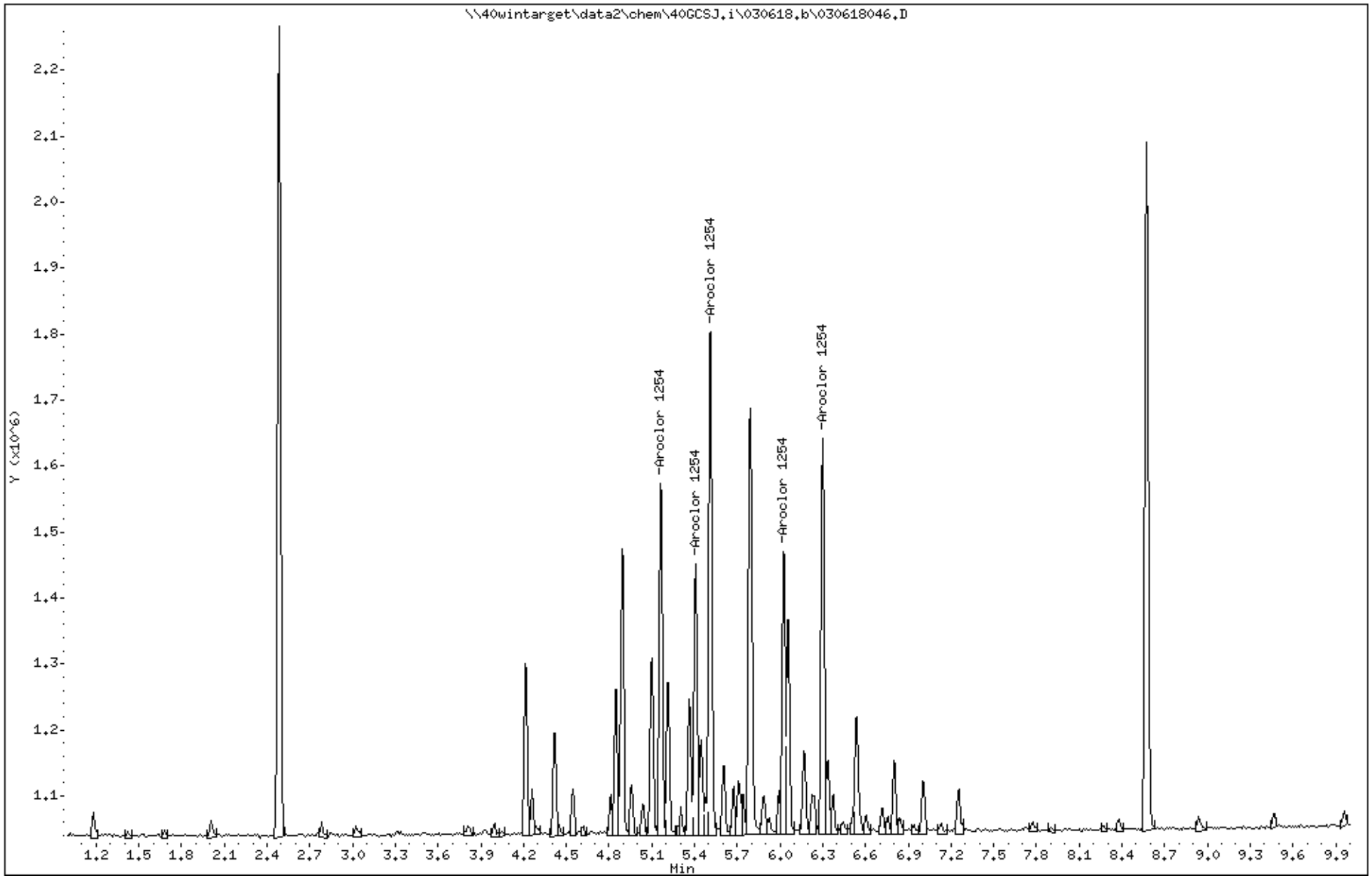
M - Compound response manually integrated.

Review Codes Legend

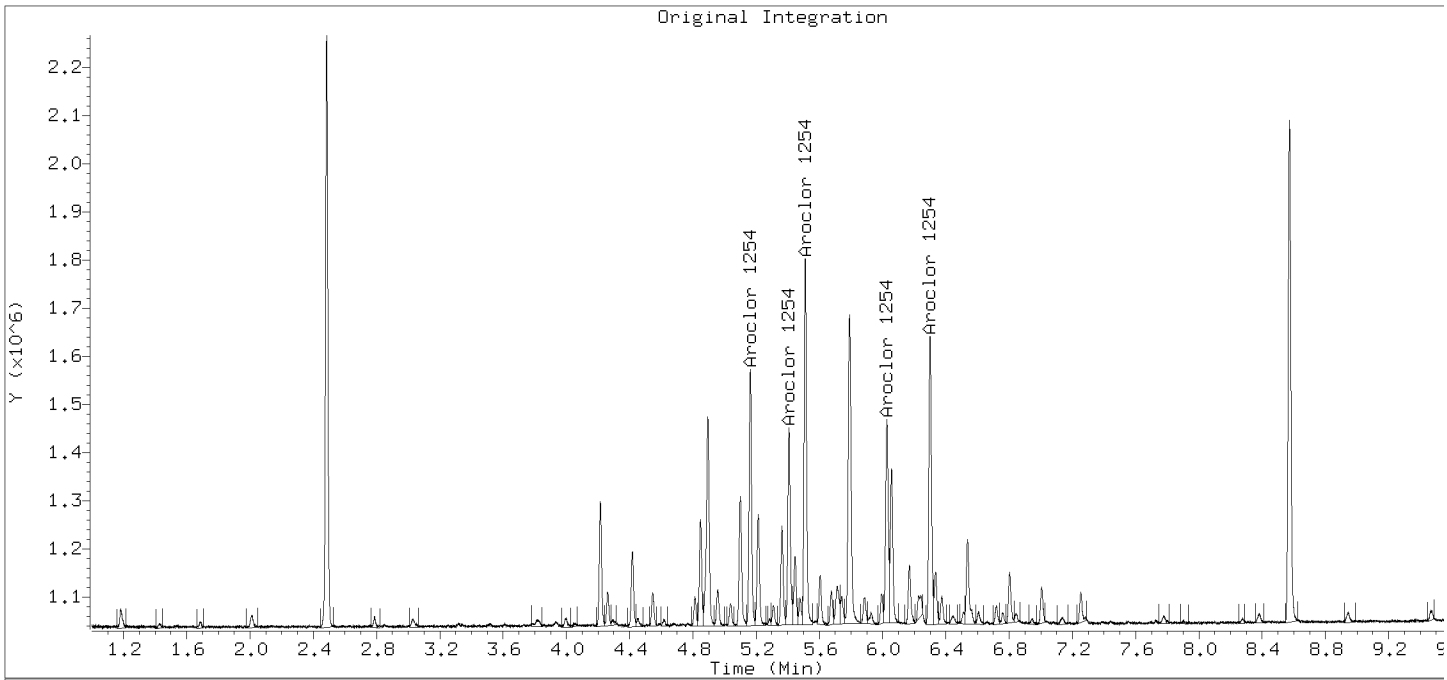
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

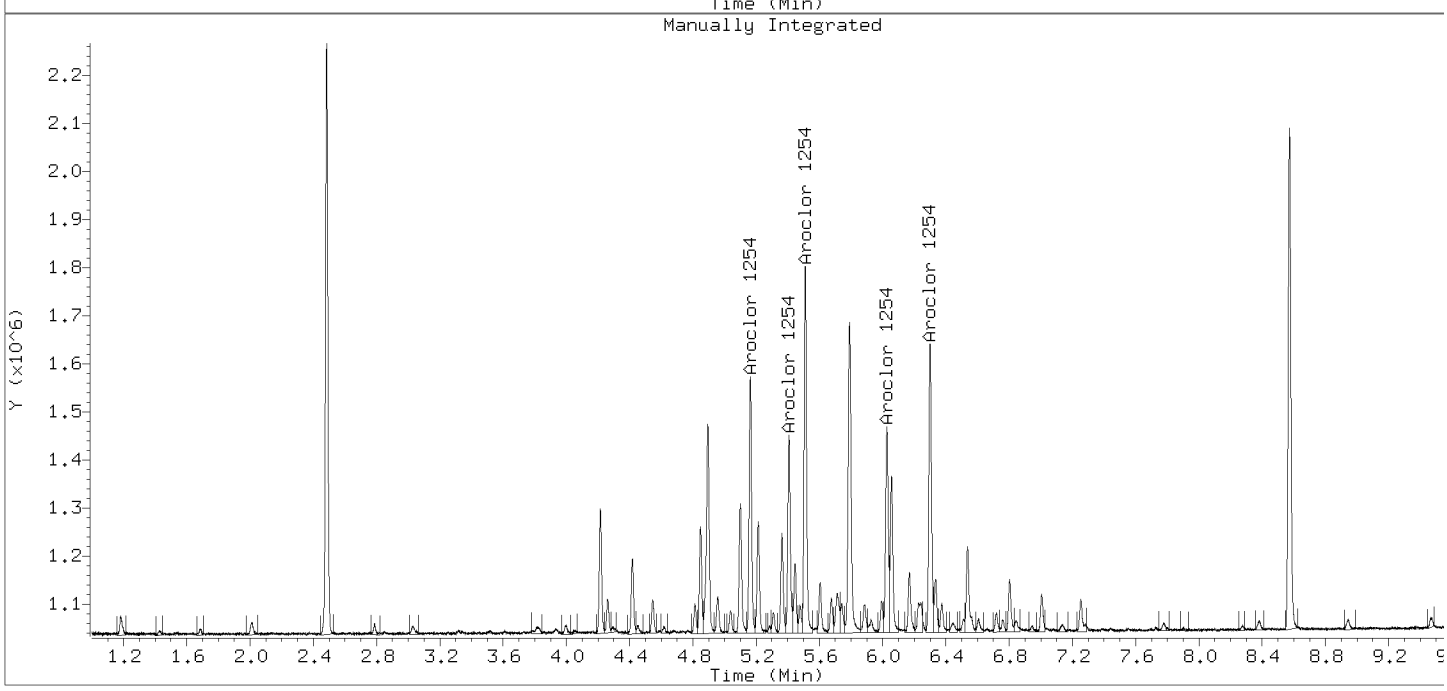
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

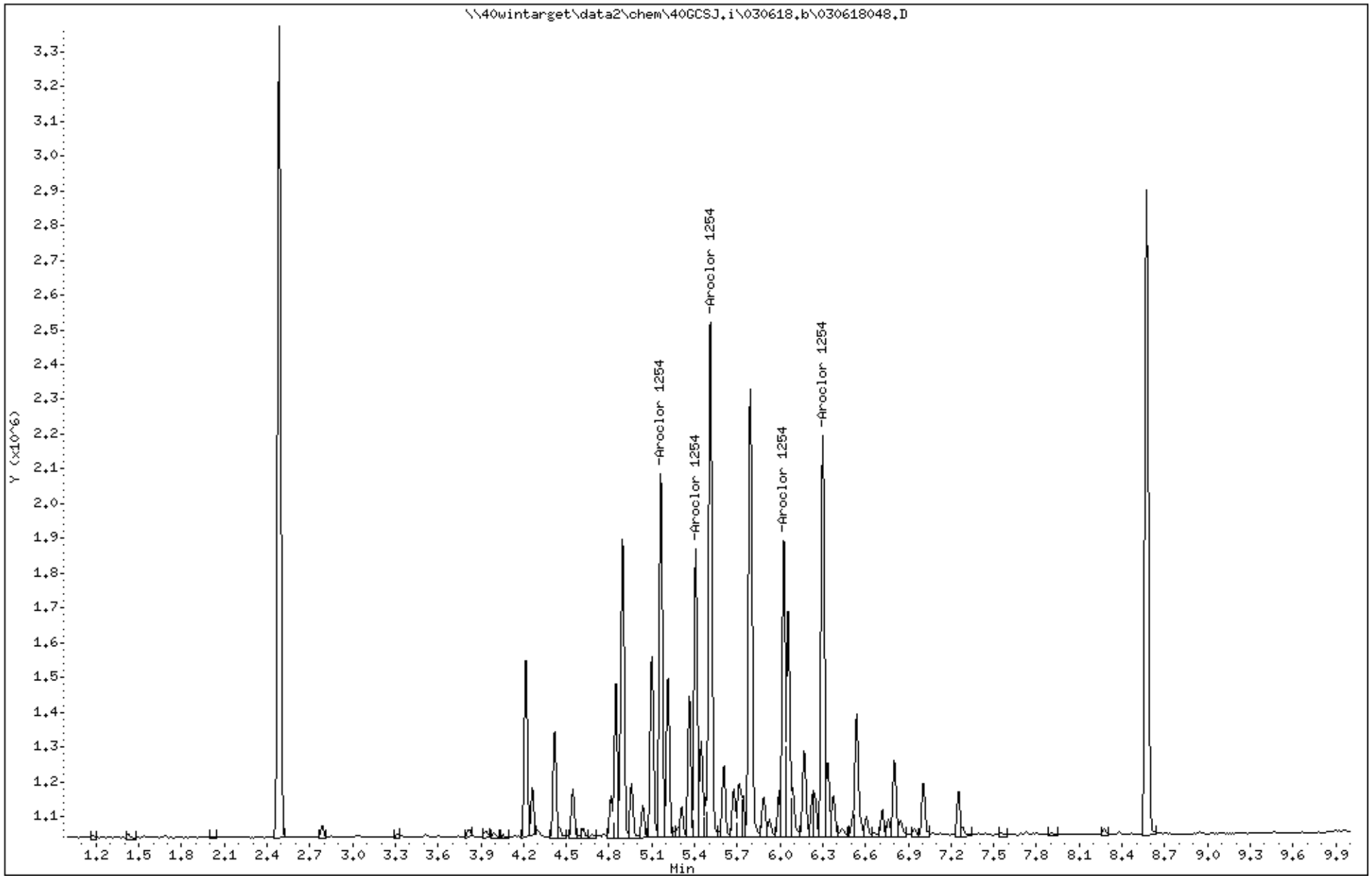
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

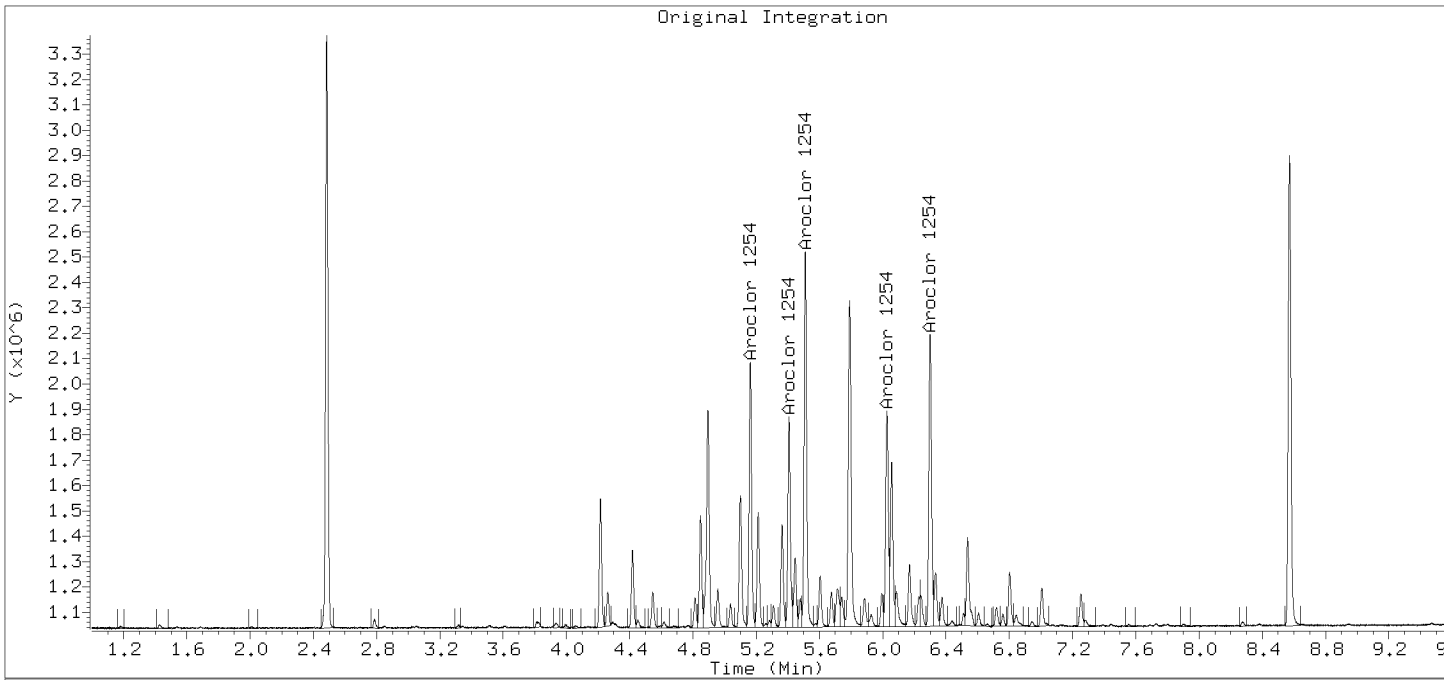
Operator: BLM

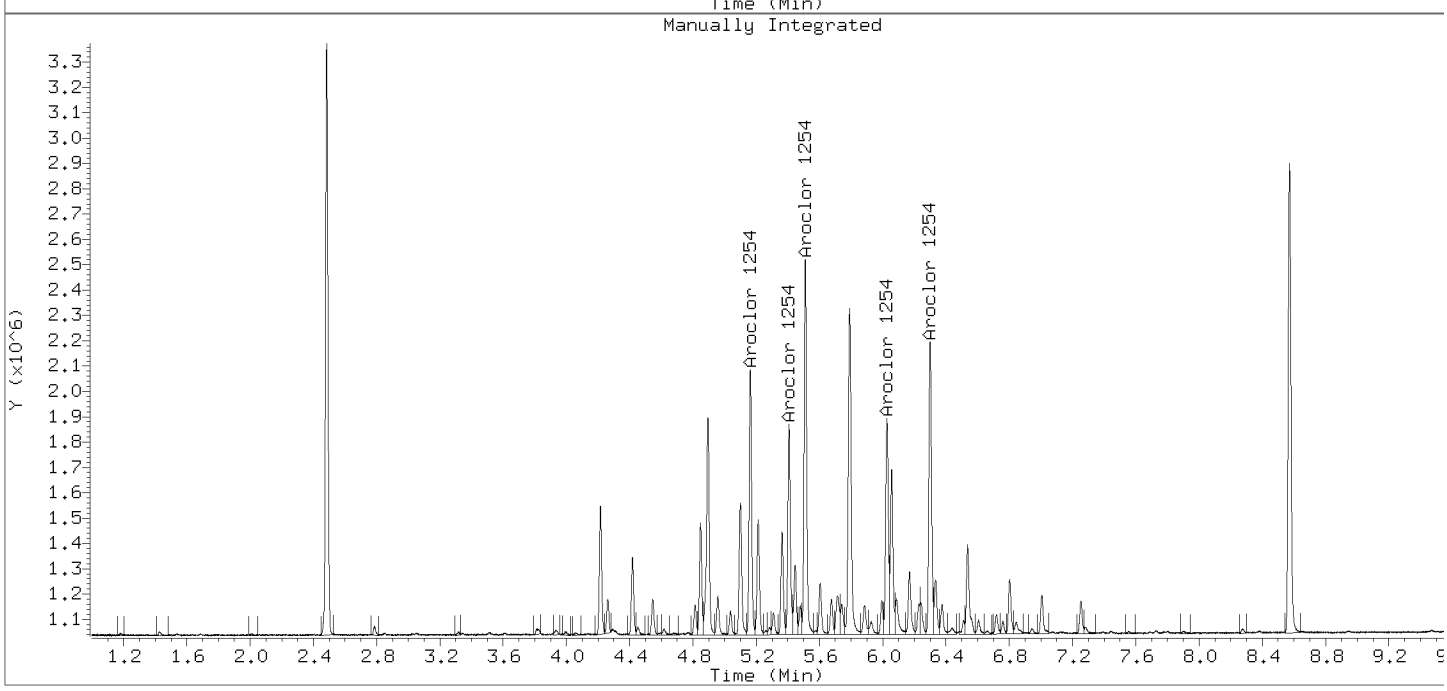
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

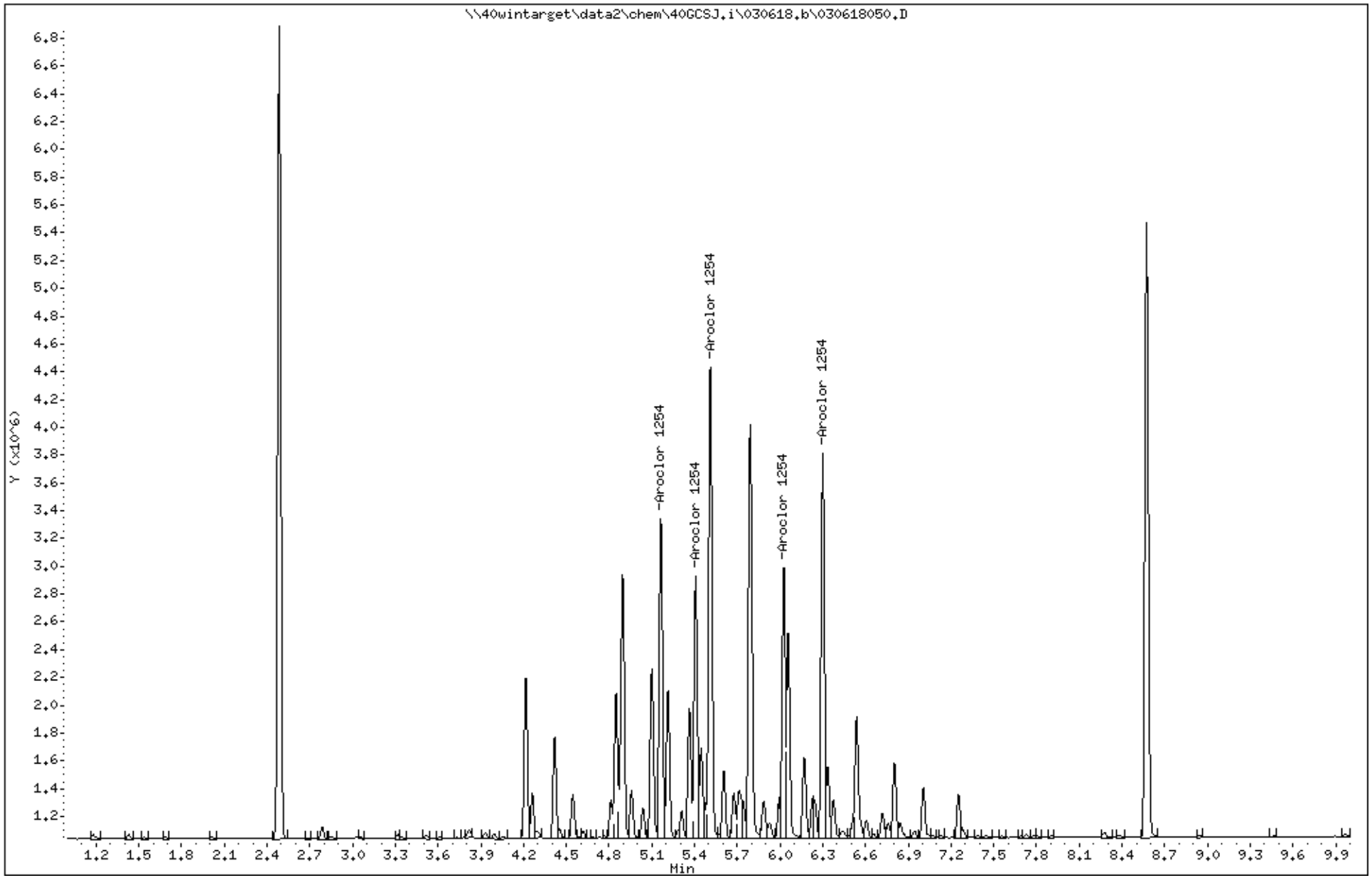
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

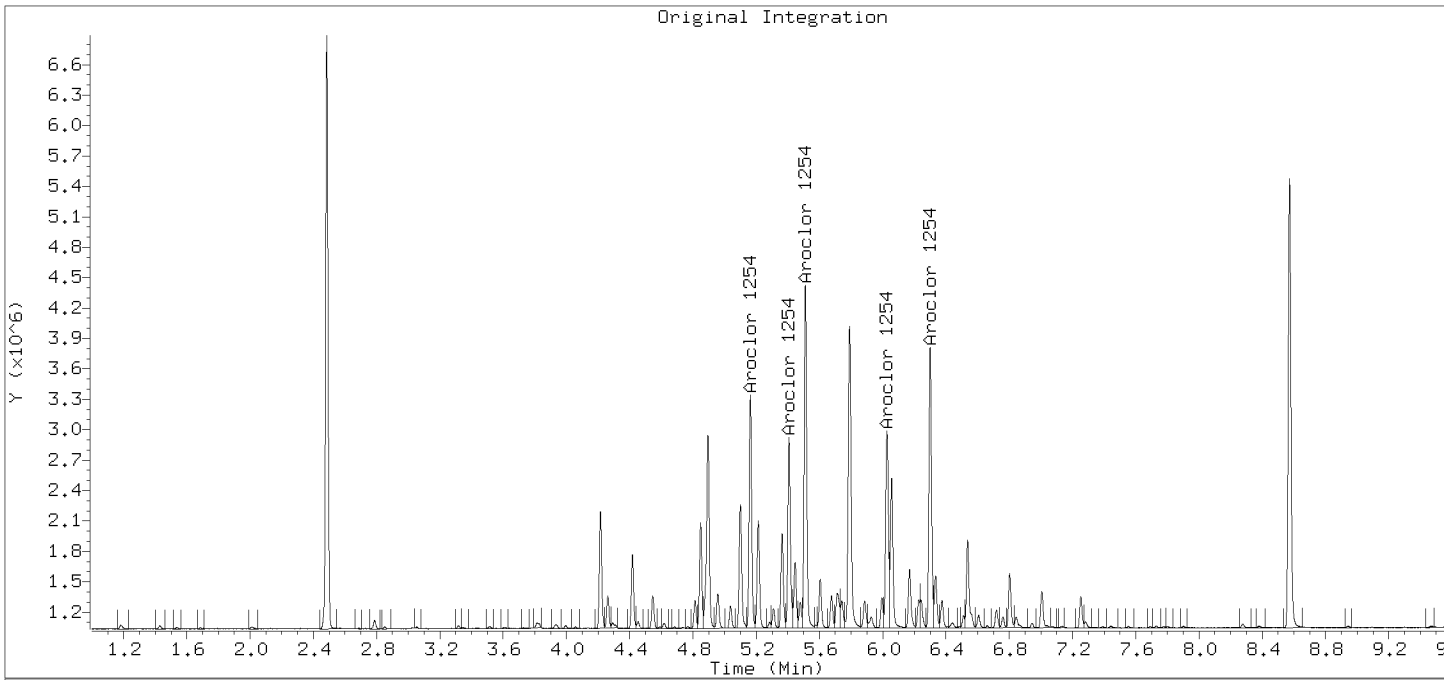
Operator: BLM

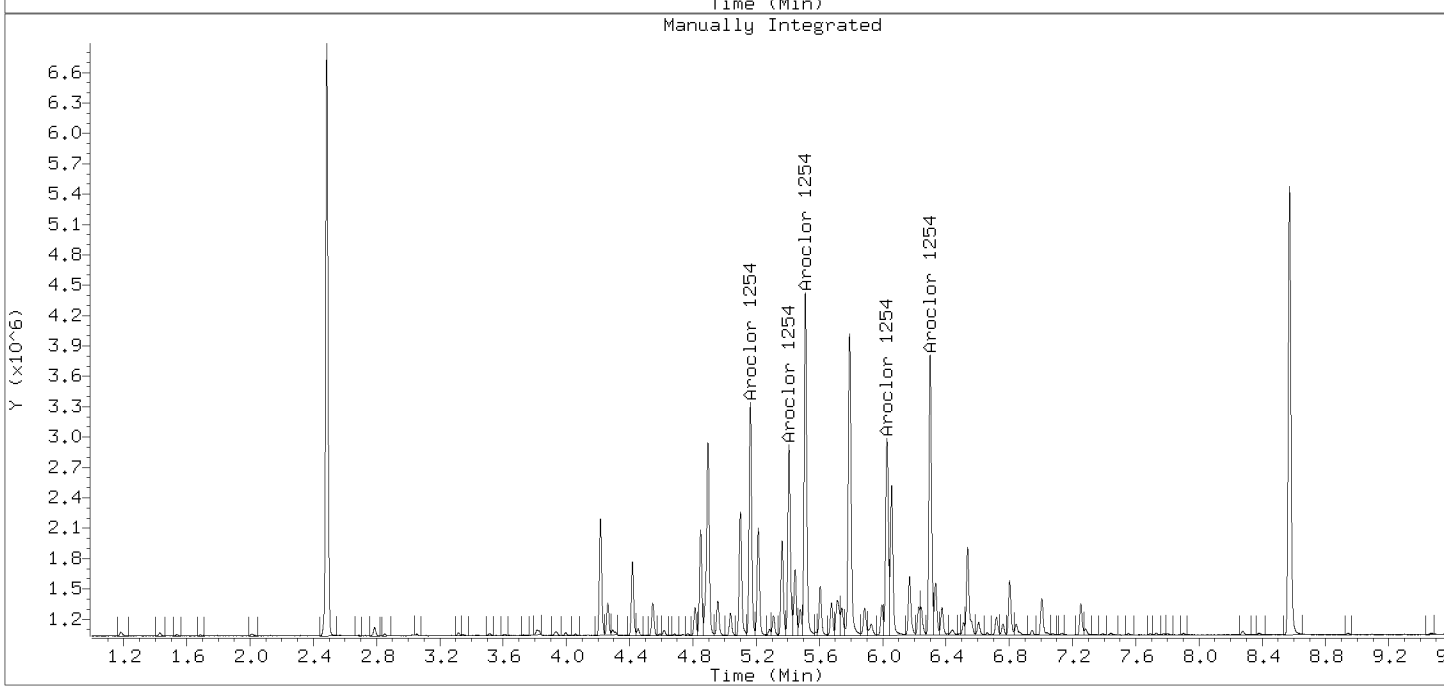
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

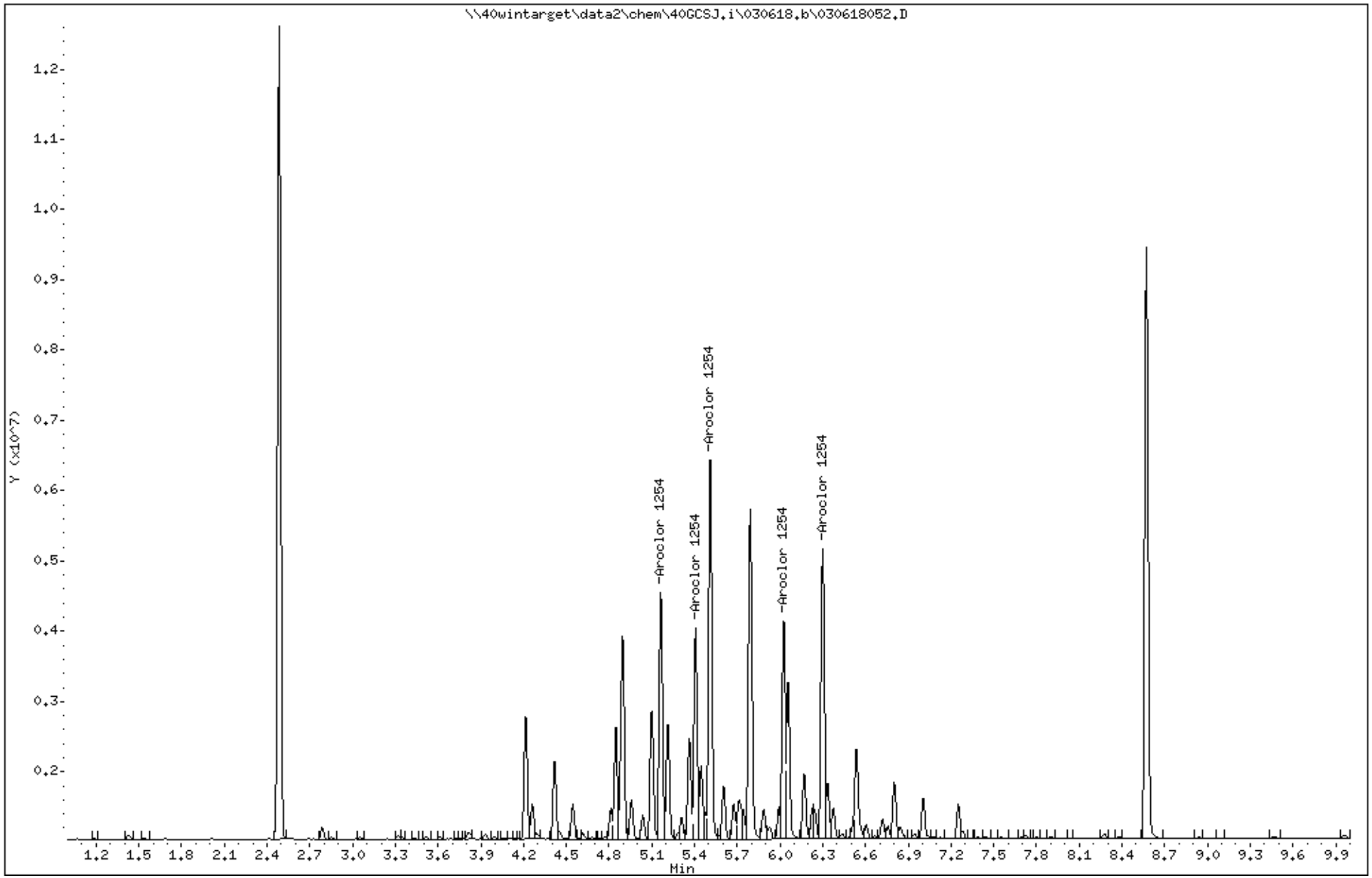
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

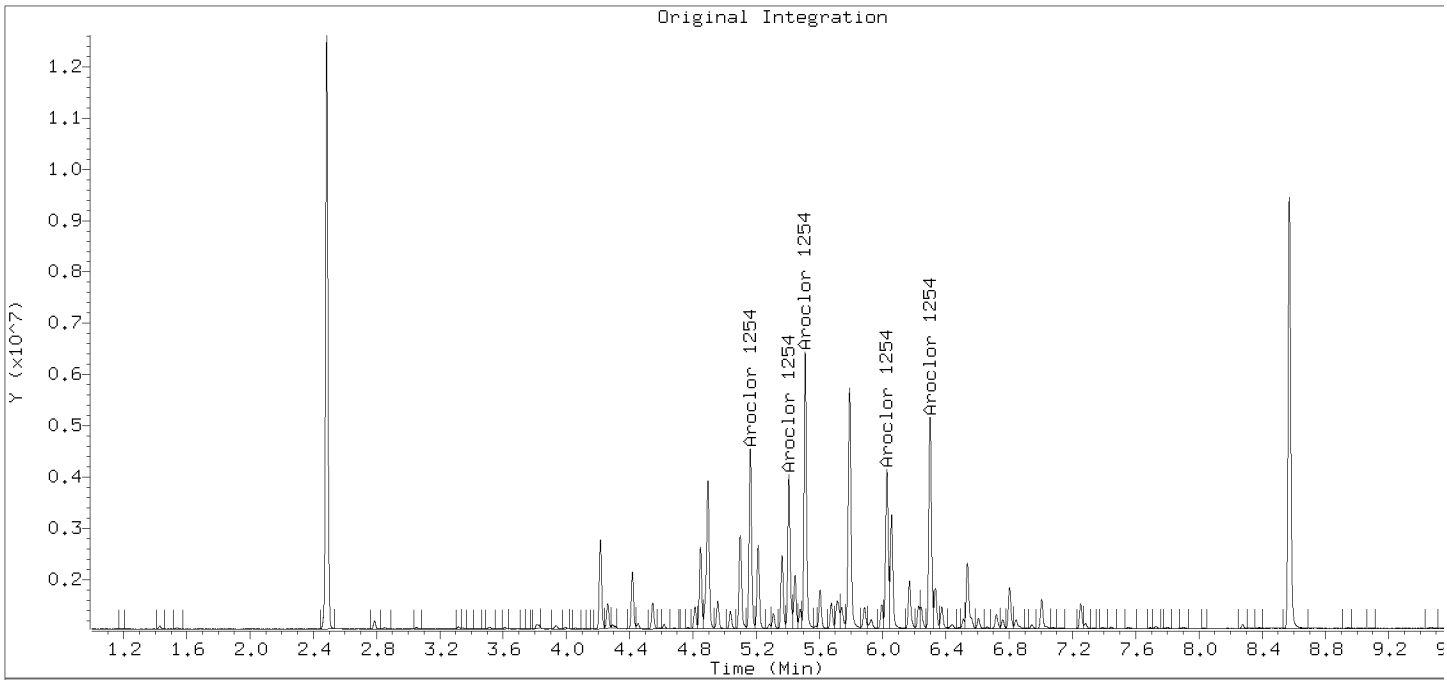
Operator: BLM

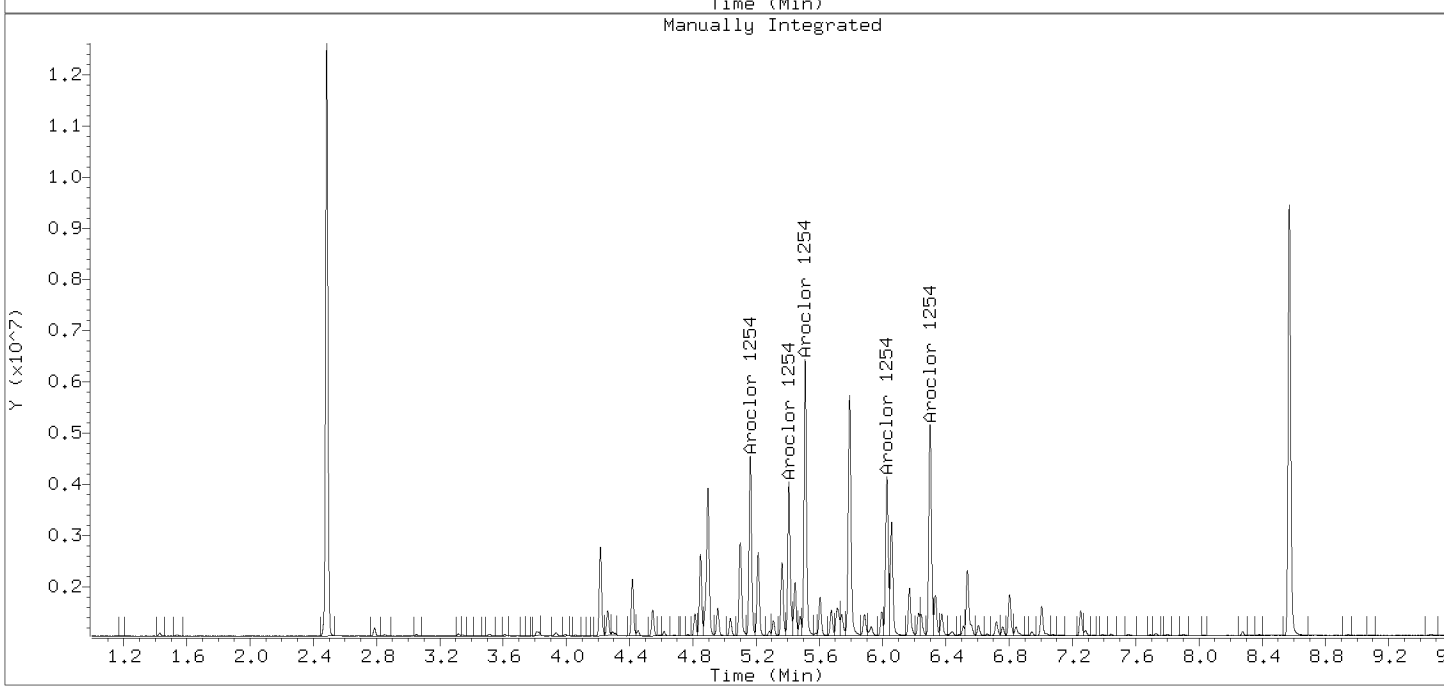
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 18:02

Client ID: 1254-CAL5C

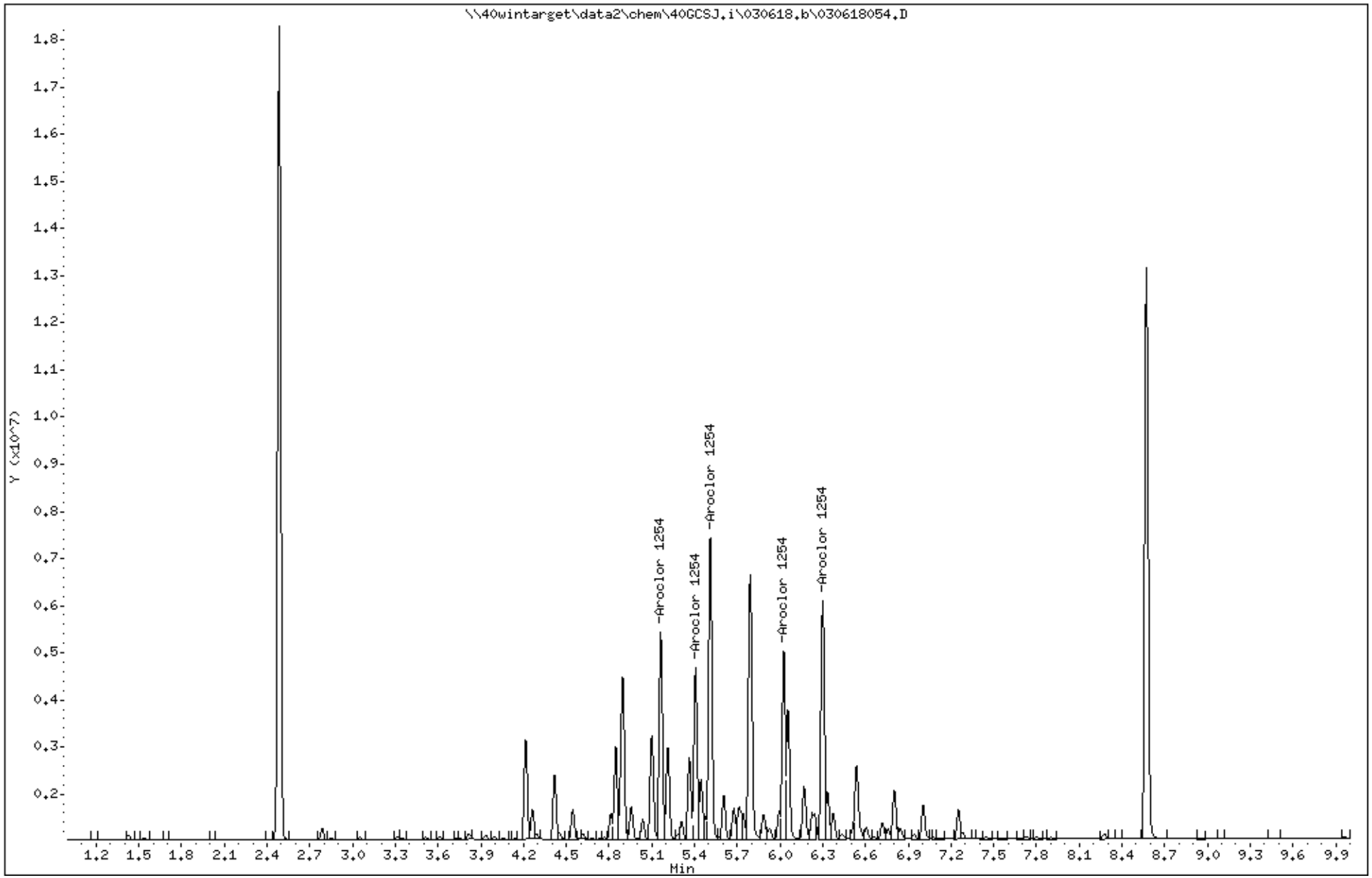
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

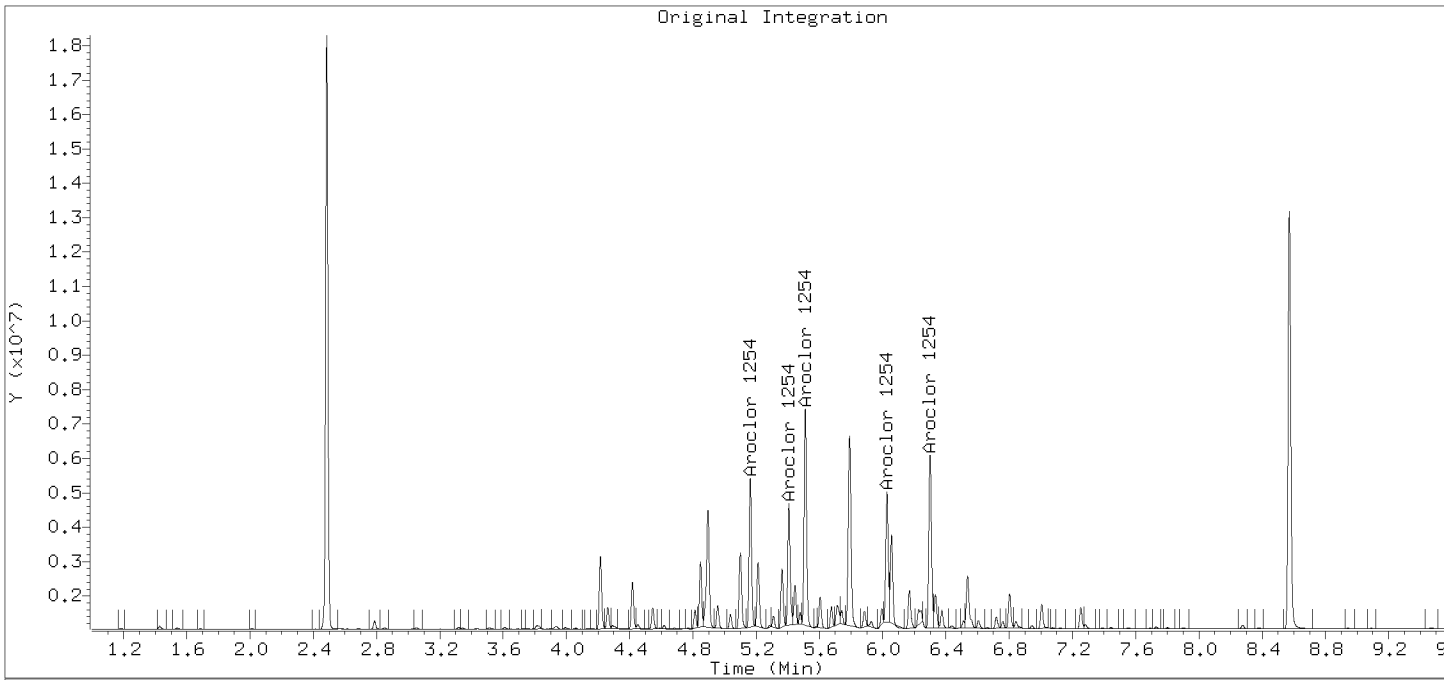
Operator: BLM

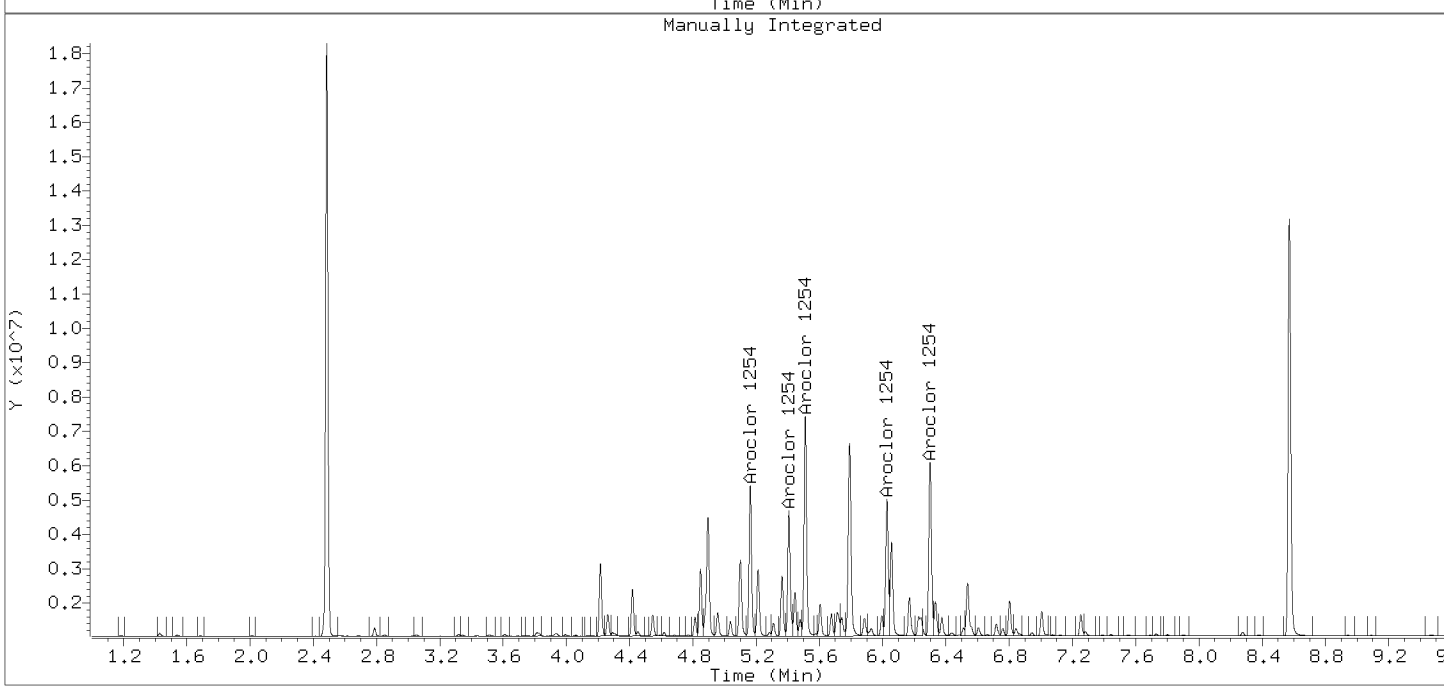
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

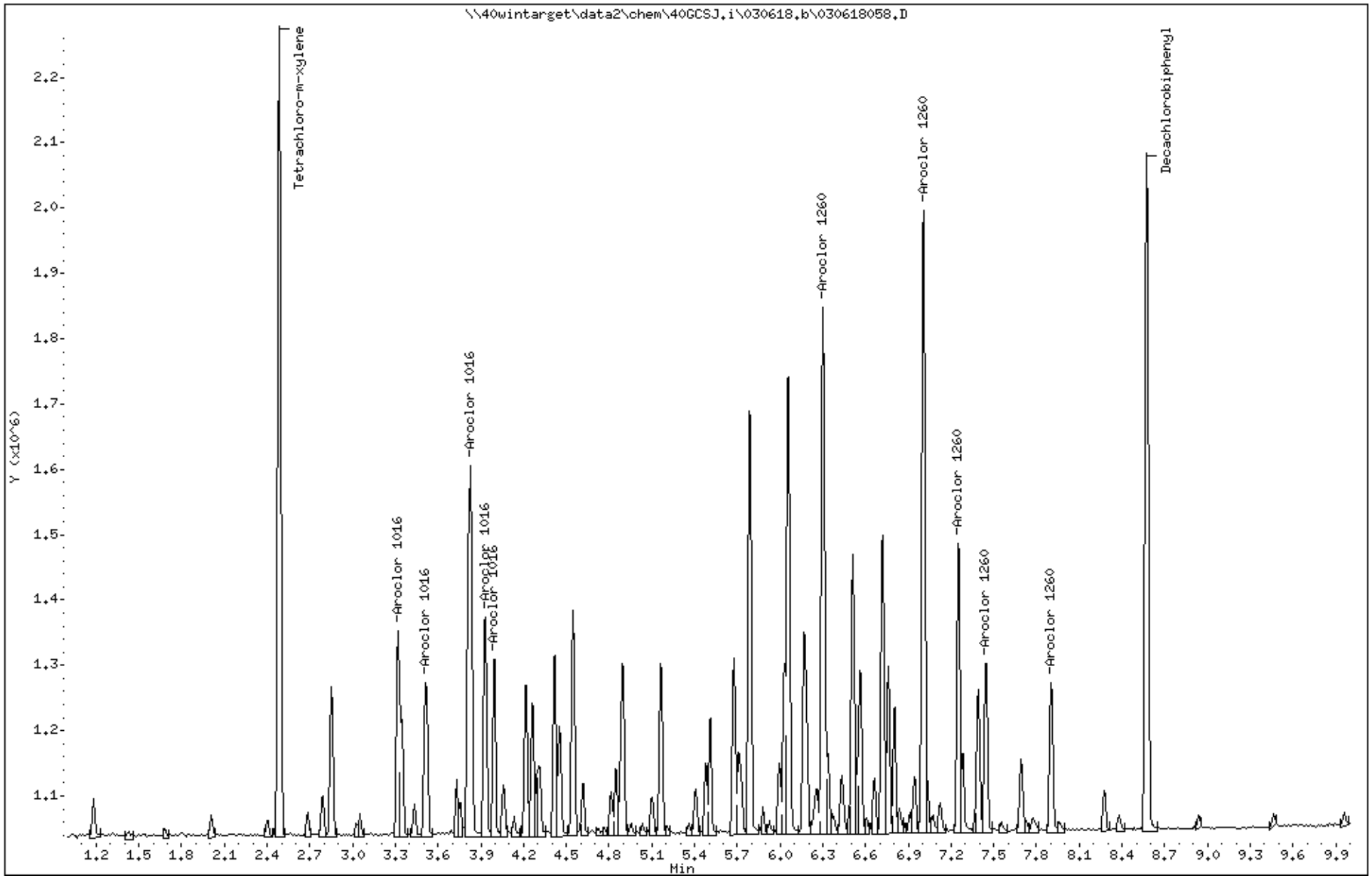
QC Flag Legend

Review Codes Legend

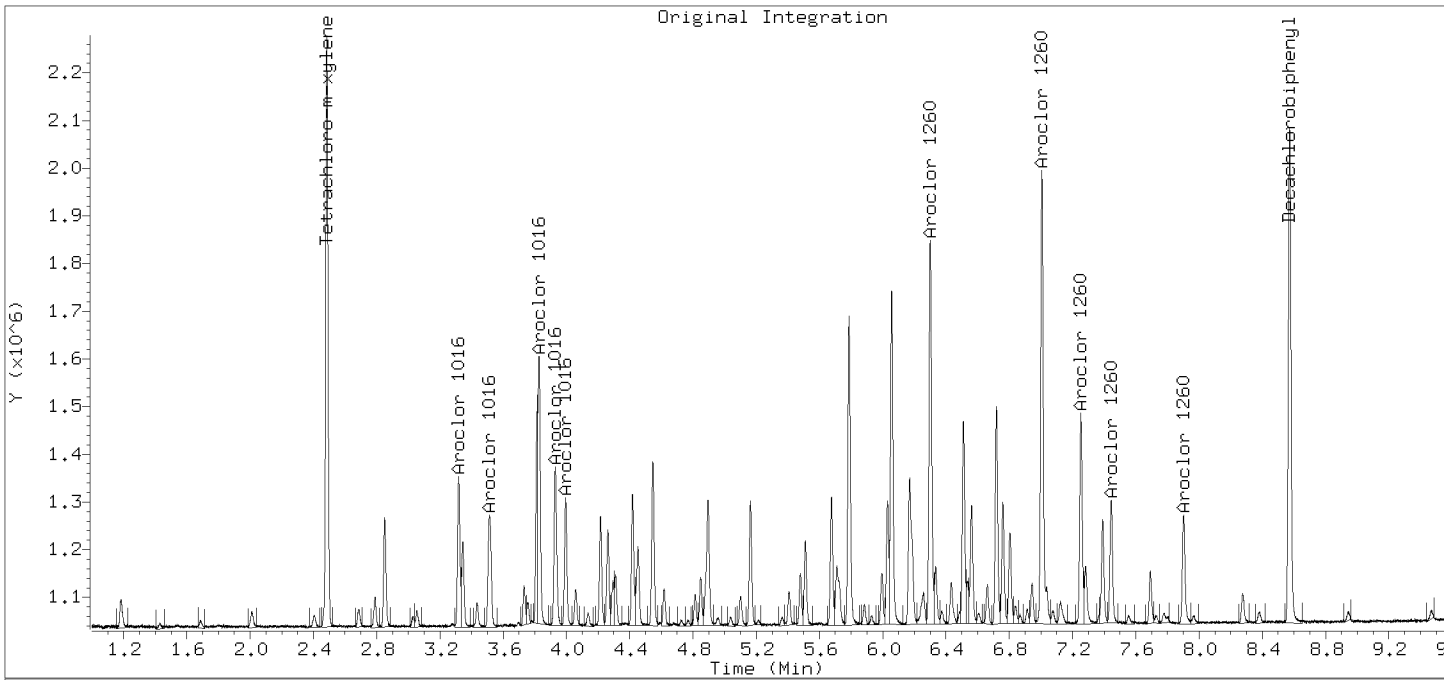
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

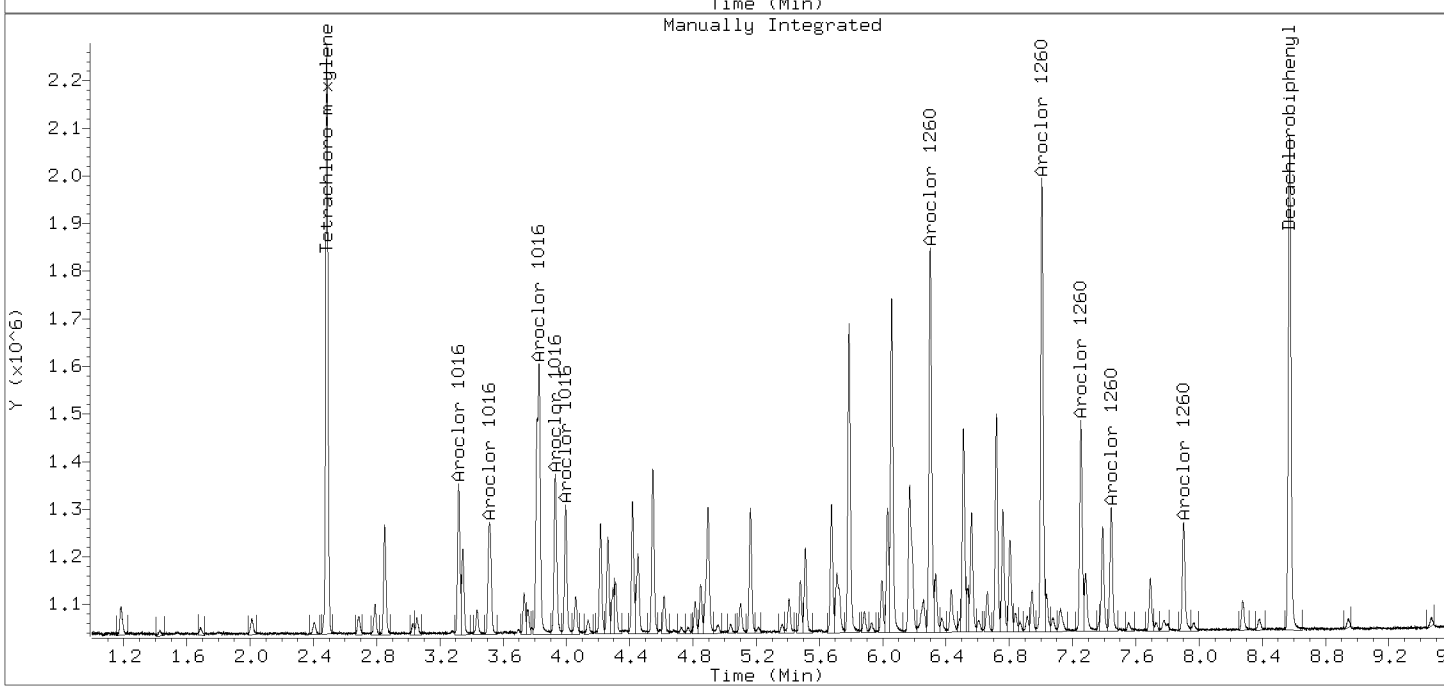
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Date : 06-MAR-2018 18:34
Client ID: 1660-CAL1A
Sample Info: 1660-CAL1A, 188136:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

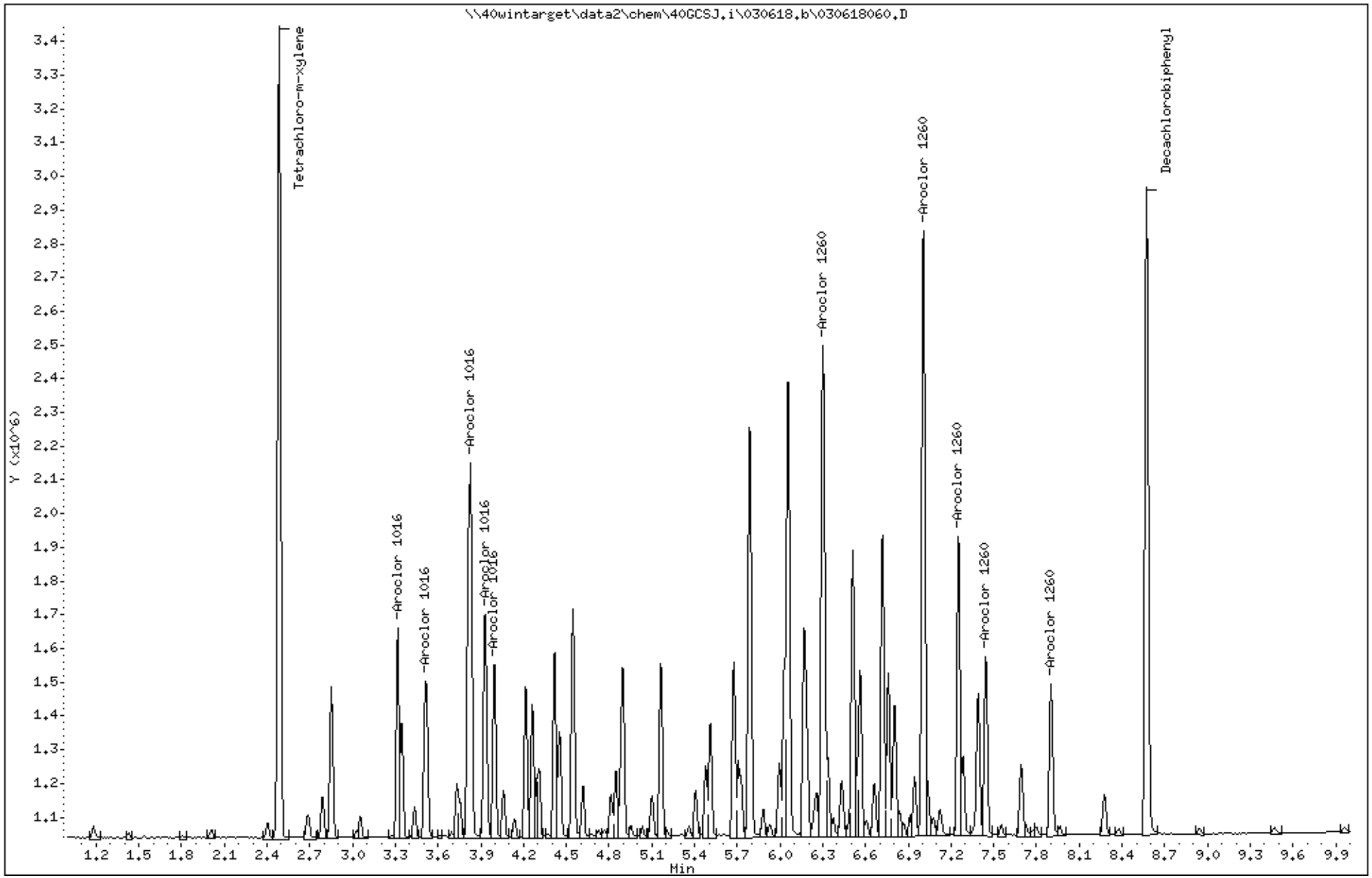
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

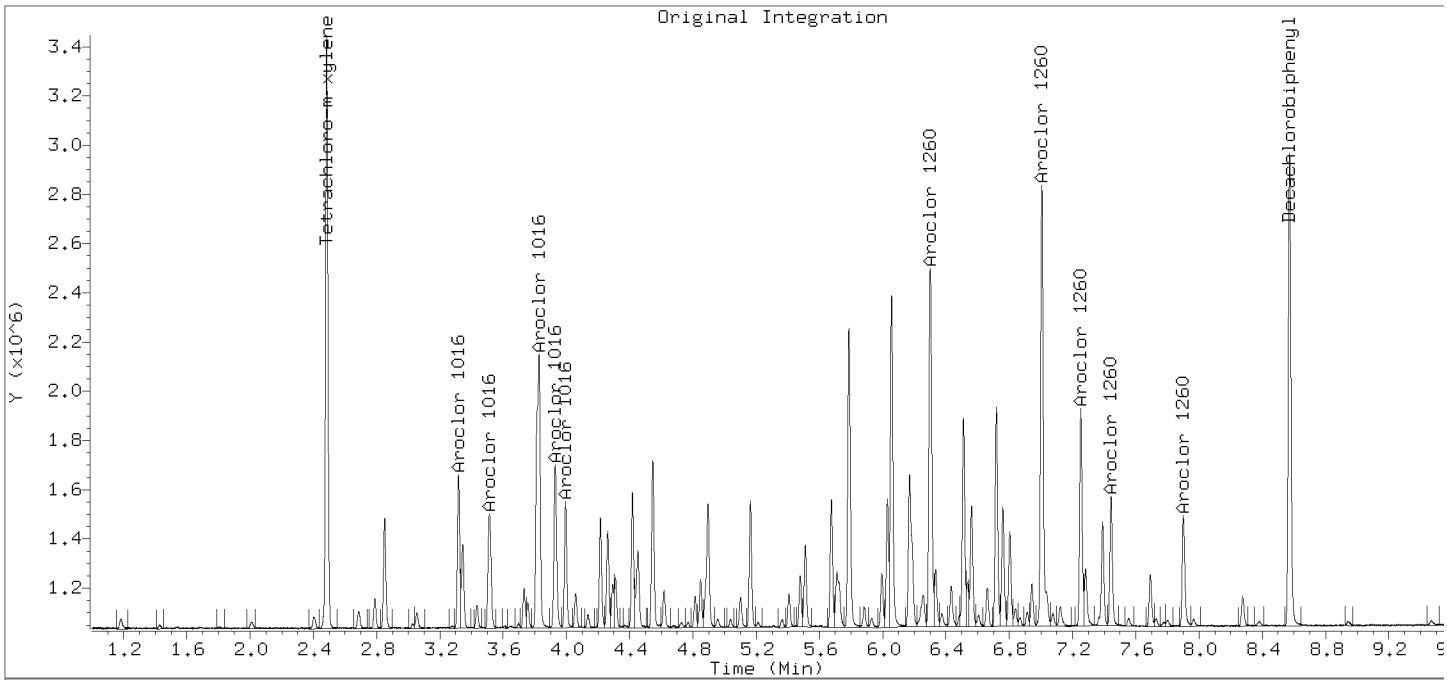
Operator: BLM

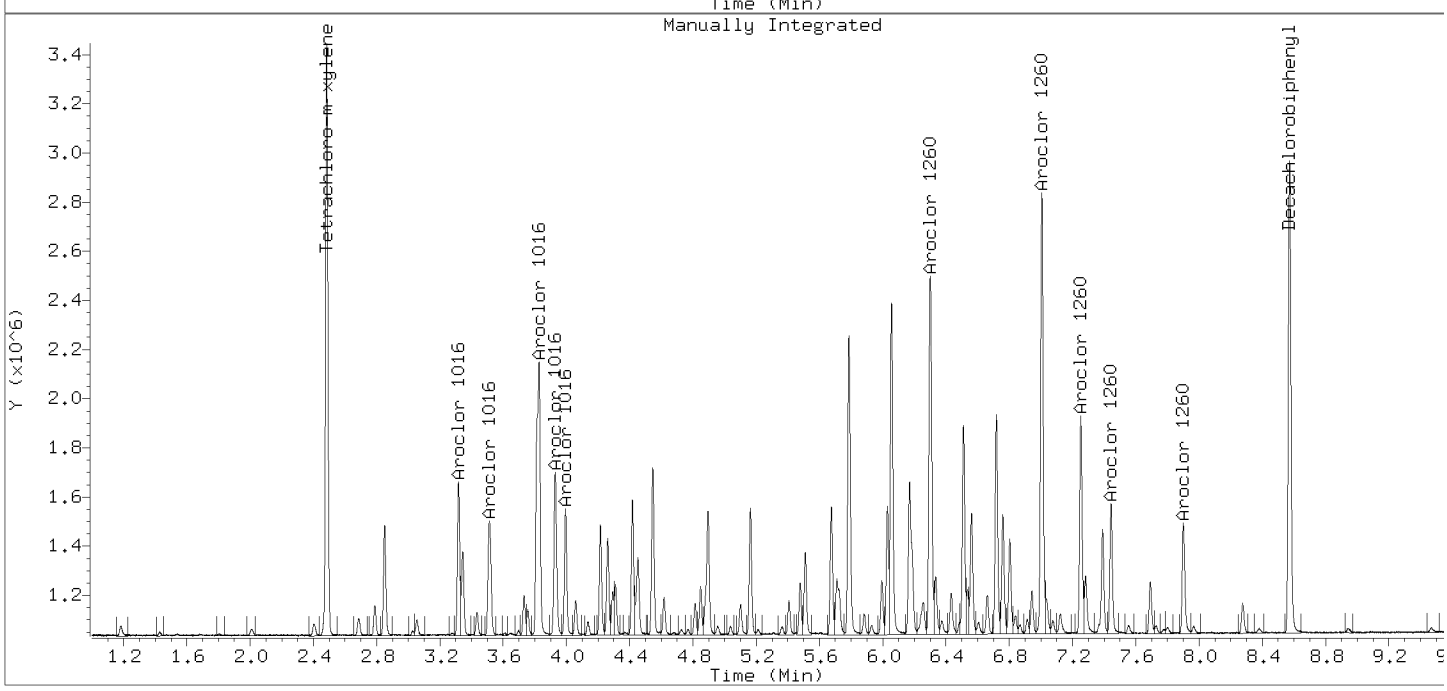
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

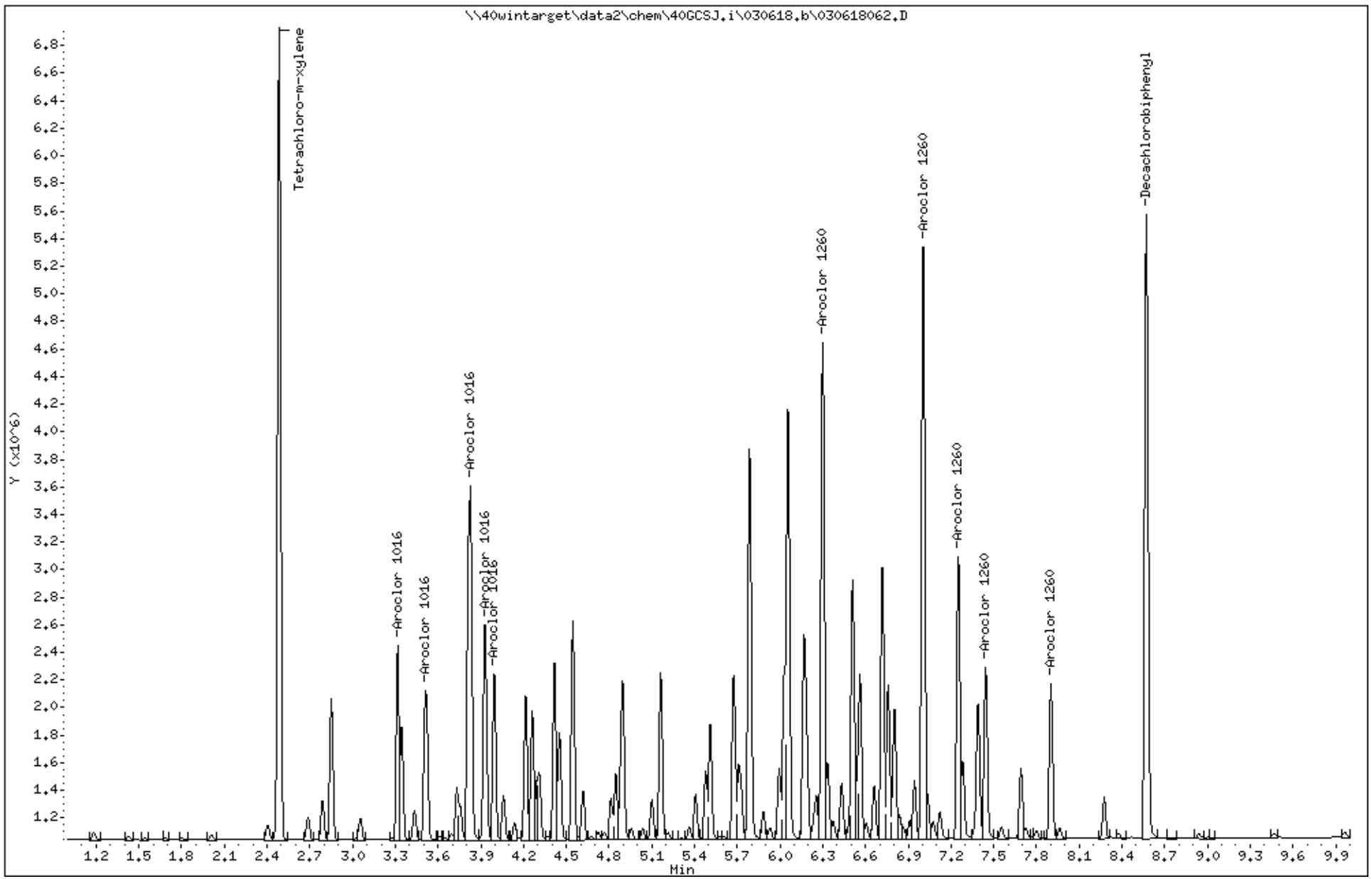
QC Flag Legend

Review Codes Legend

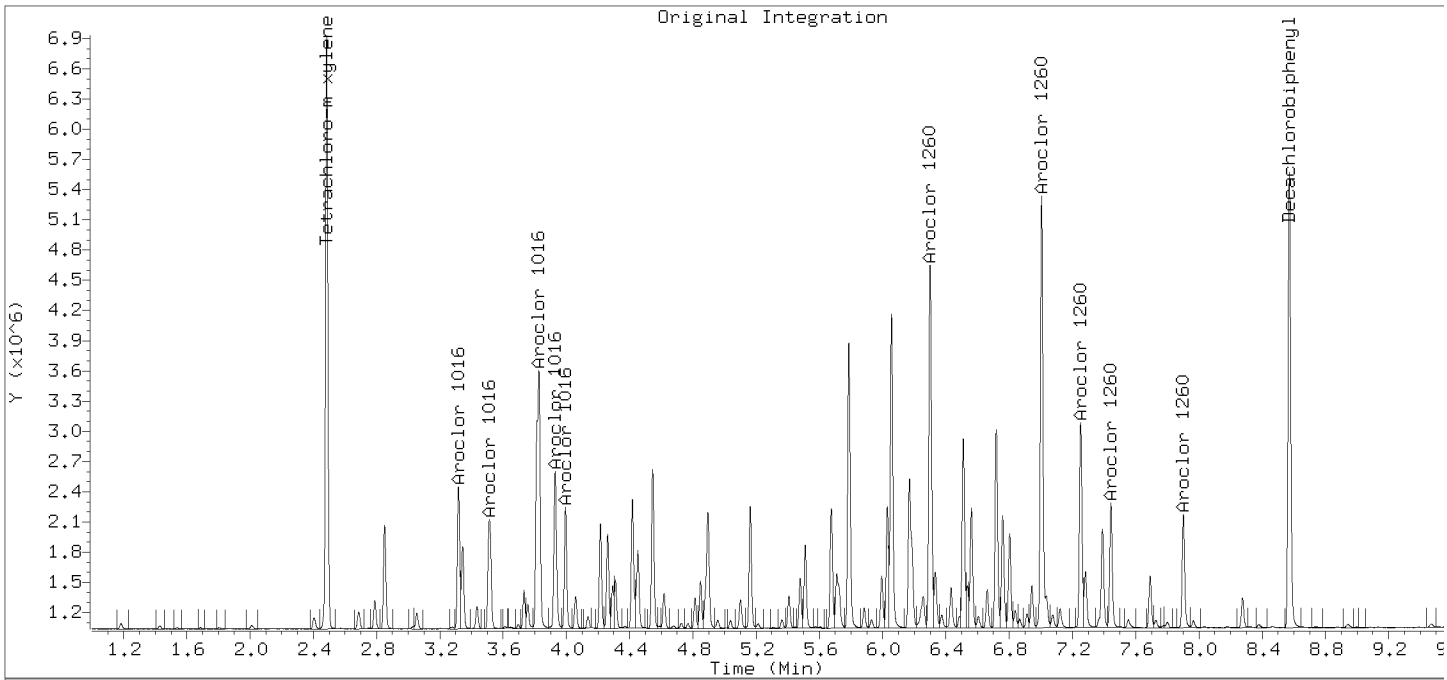
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

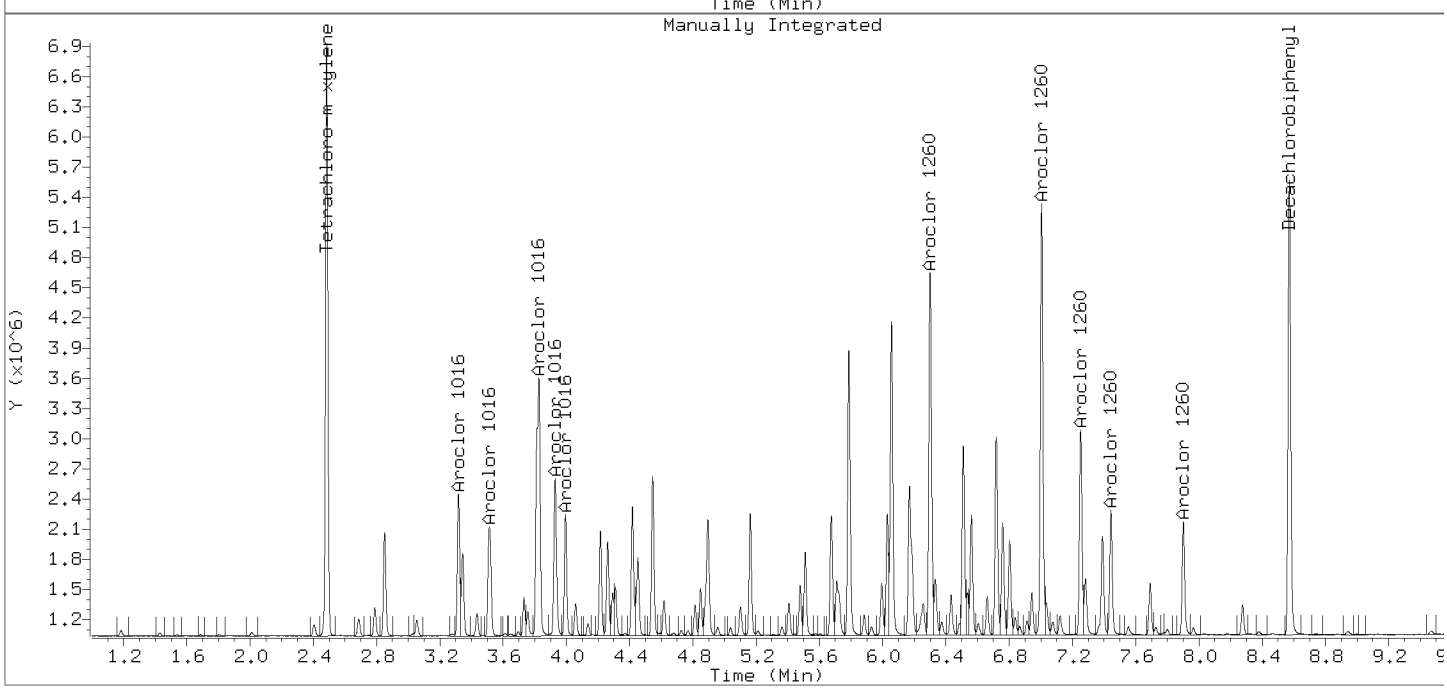
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

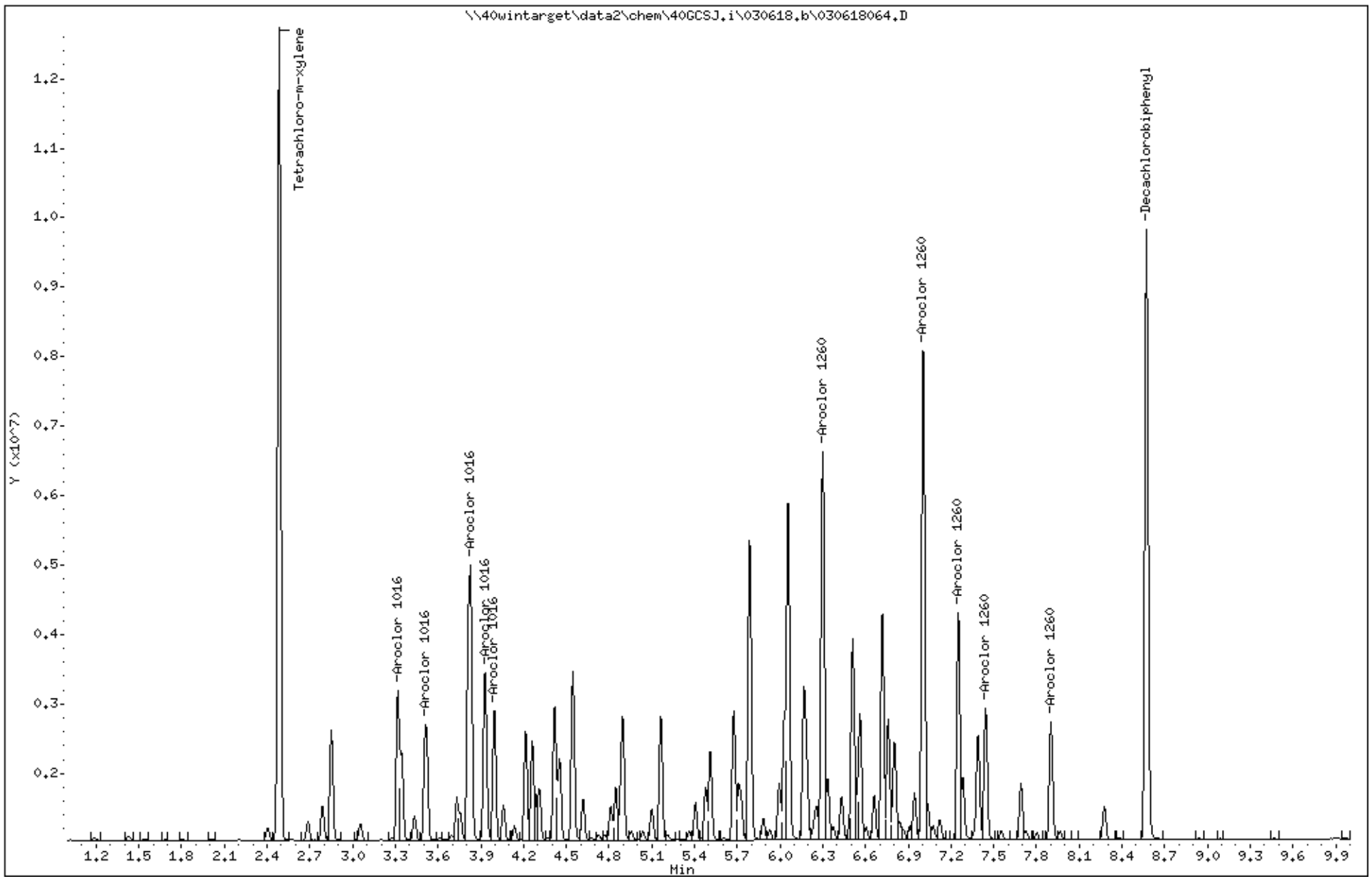
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

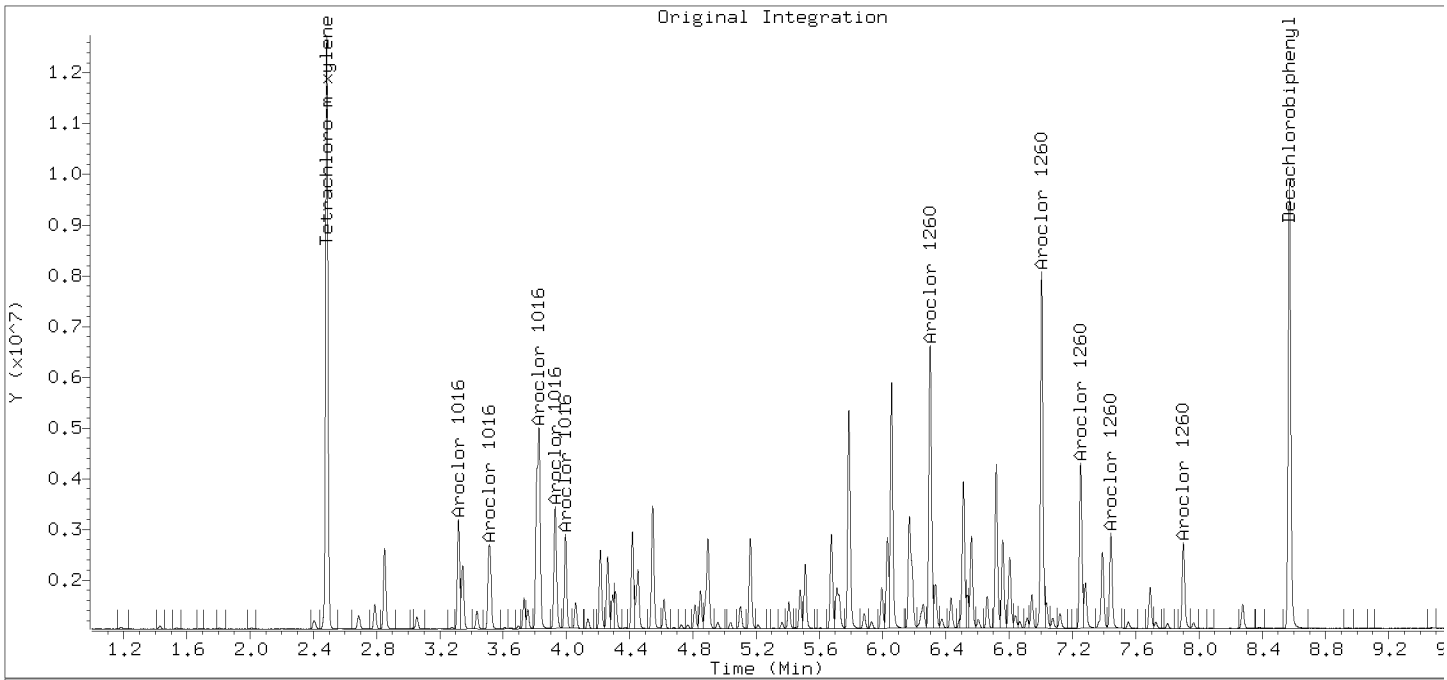
Operator: BLM

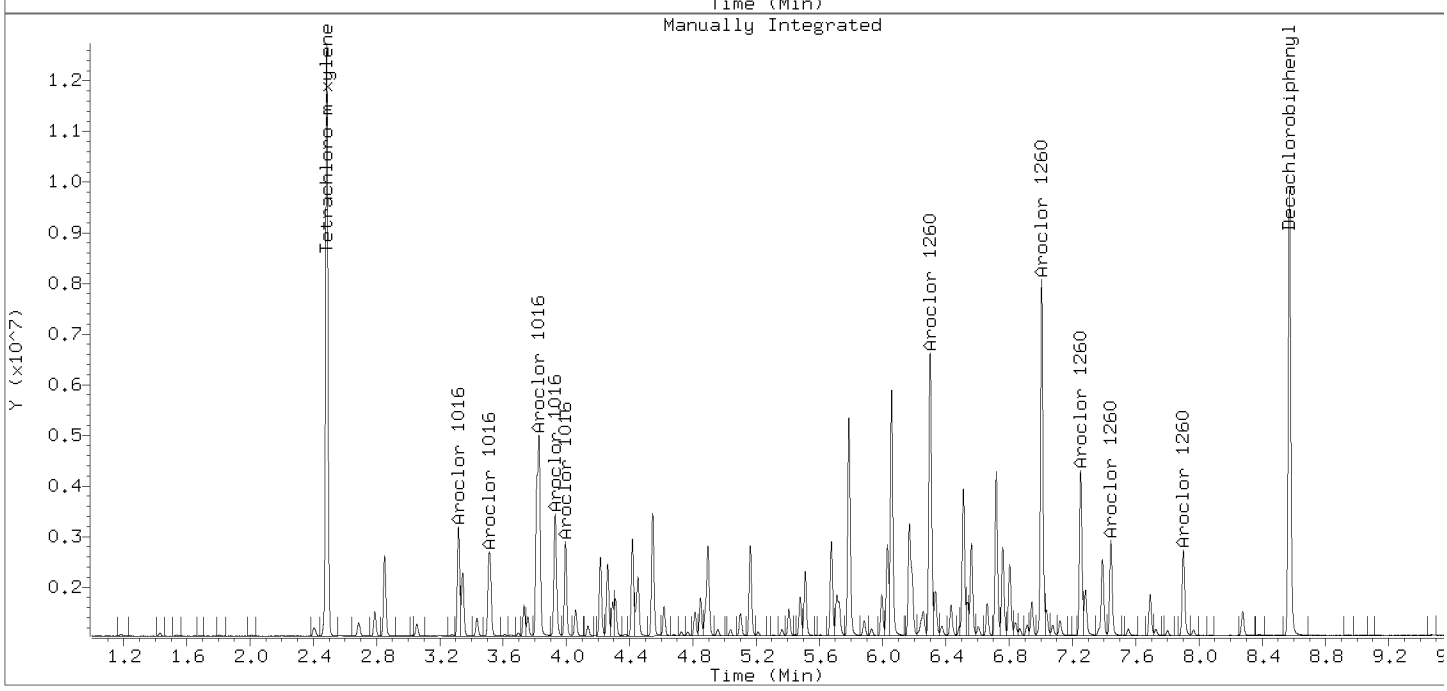
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

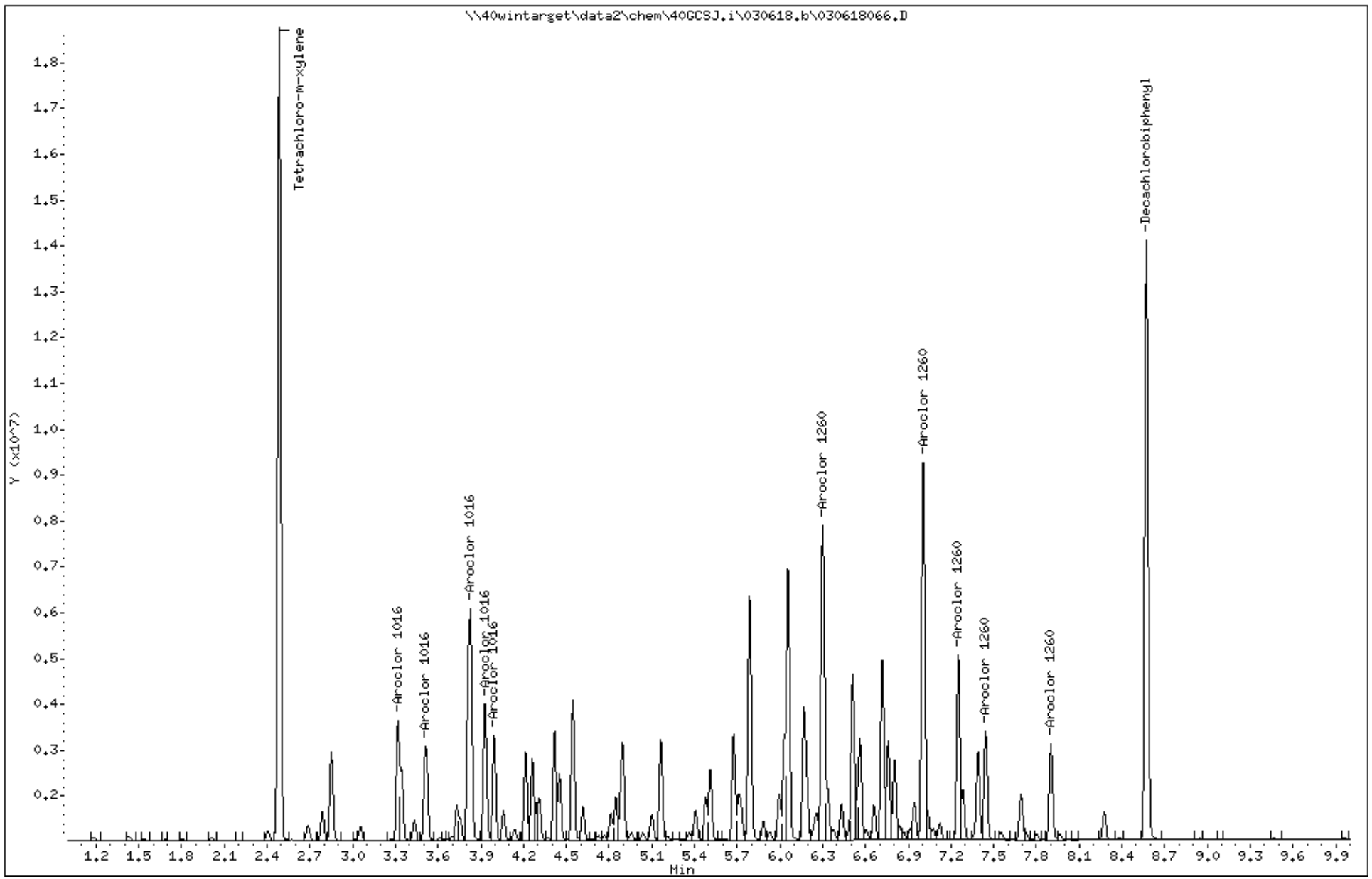
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

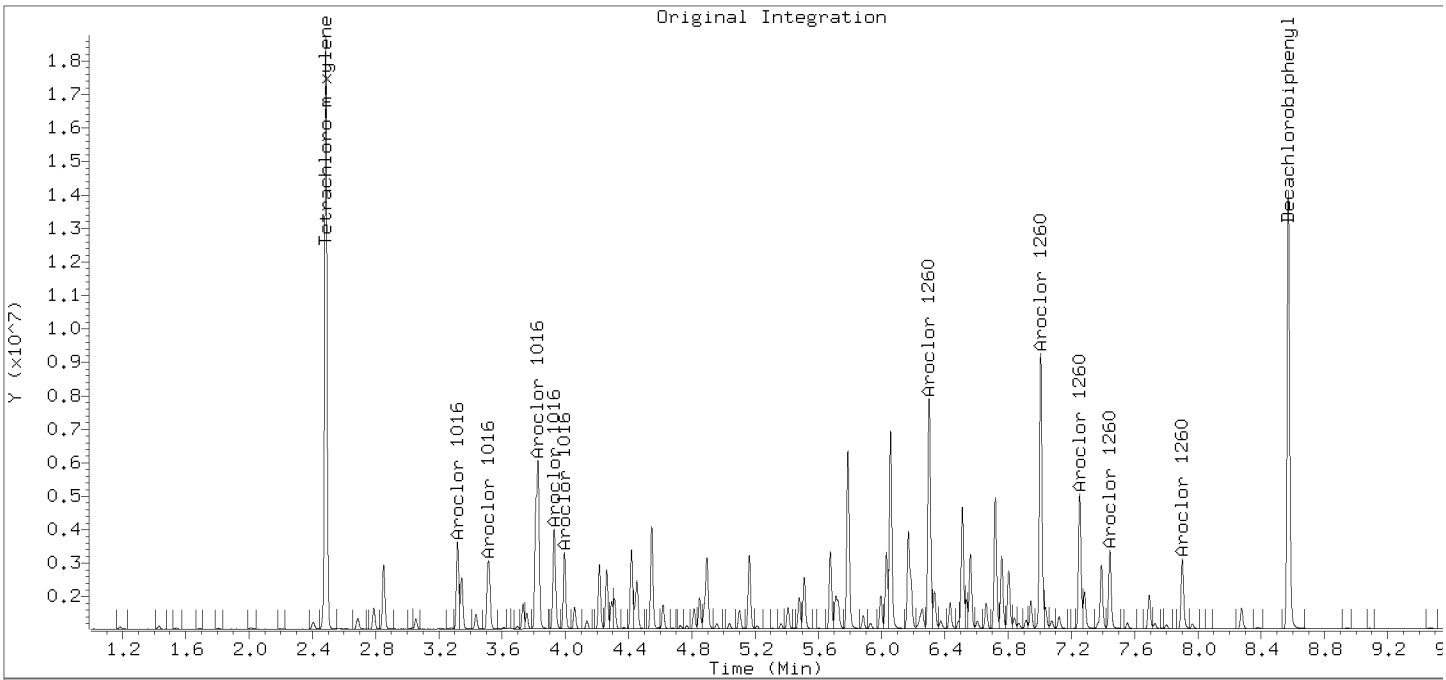
Operator: BLM

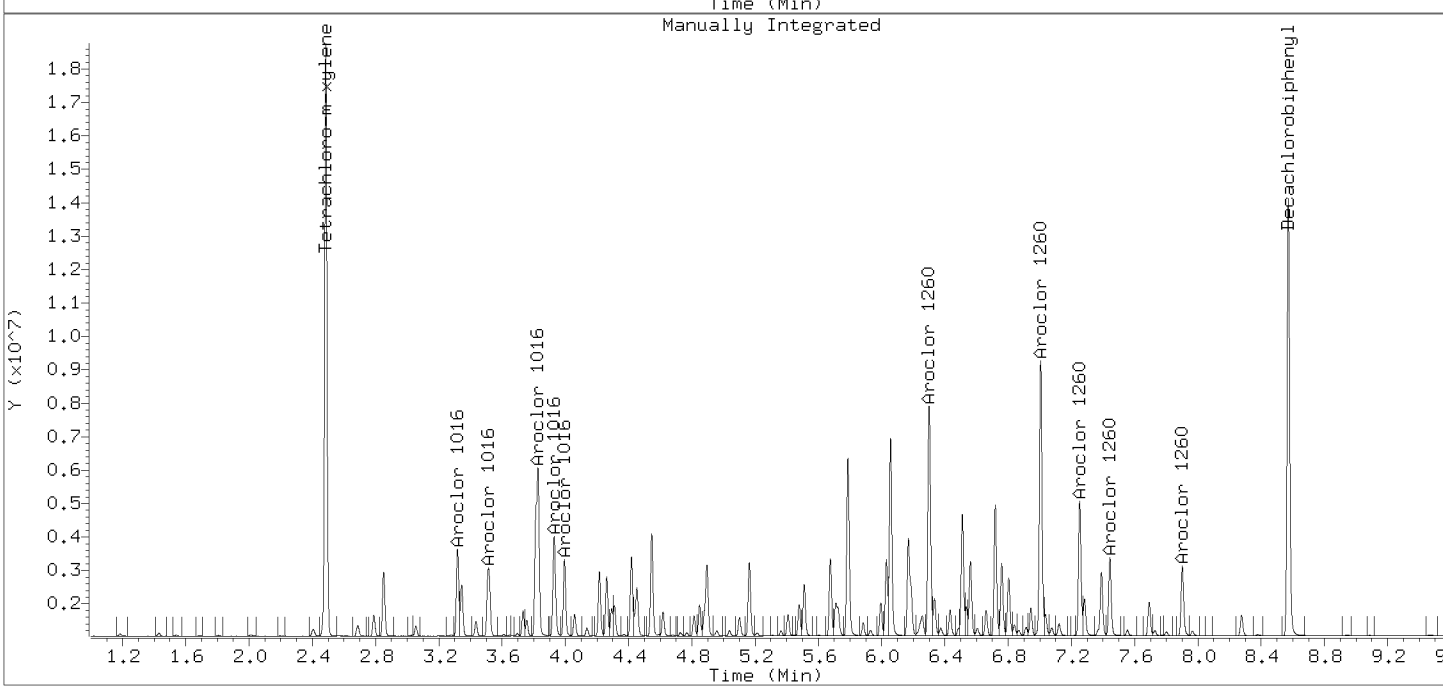
Column phase: ZB-1ms

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.: 40150295

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.: 40150295

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.: 40150295

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.: 40150295

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.: 40150295

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.

10764509CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/07/2018 Time: 13:58

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

Lab File ID: 030718.B\030718008.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150295

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.805	1.77	1.838	1041256.70	980466.000	-5.8382
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	517062.000	-5.6186
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1287802.00	-6.9061
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1001584.00	-9.4220
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3069774.00	-5.7020
Decachlorobiphenyl (S)		Averaged	8.572	8.537	8.605	109559990.	98070040.0	-10.4874
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	116921920.	-5.1691

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

SAMPLE NO.

10764506CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/07/2018 Time: 17:11

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

Lab File ID: 030718.B\030718032.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150295

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2657886.00	6.3144
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1408696.00	5.1437
Aroclor 1232	3	Averaged	3.827	3.793	3.861	3749726.00	4080218.00	8.8138
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1727462.00	7.5301
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1156496.00	5.9183
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	105127940.	-4.0453
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119262840.	-3.2704

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

SAMPLE NO.

10764508CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/07/2018 Time: 20:25

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

Lab File ID: 030718.B\030718056.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150295

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	2650344.00	4.6244
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2589212.00	2.7451
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7491298.00	5.2672
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3197924.00	5.1418
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2112616.00	3.1678
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	110254940.	0.6343
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122127140.	-0.9473

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

SAMPLE NO.

10764507CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/07/2018 Time: 22:02

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

Lab File ID: 030718.B\030718068.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150295

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2365060.00	0.9427
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4156500.00	0.1492
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2106980.00	3.7880
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5113398.00	1.5078
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3708794.00	3.3509
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106882380.	-2.4440
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	119515140.	-3.0658

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

SAMPLE NO.

10780908CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/13/2018 Time: 14:18

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

Lab File ID: 031318.B\031318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150295

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	2333598.00	-7.8794
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2303554.00	-8.5903
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	6211628.00	-12.7146
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	2669418.00	-12.2345
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	1775018.00	-13.3185
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	92920240.0	-15.1878
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	111046180.	-9.9346

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

SAMPLE NO.

10780906CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/13/2018 Time: 17:28

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

Lab File ID: 031318.B\031318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150295

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2229724.00	-4.8336
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	3900338.00	-6.0229
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	1923484.00	-5.2508
Aroclor 1248	4	Averaged	4.877	4.845	4.913	5037445.65	4751220.00	-5.6820
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3372468.00	-6.0213
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	98260660.0	-10.3134
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	114350280.	-7.2548

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

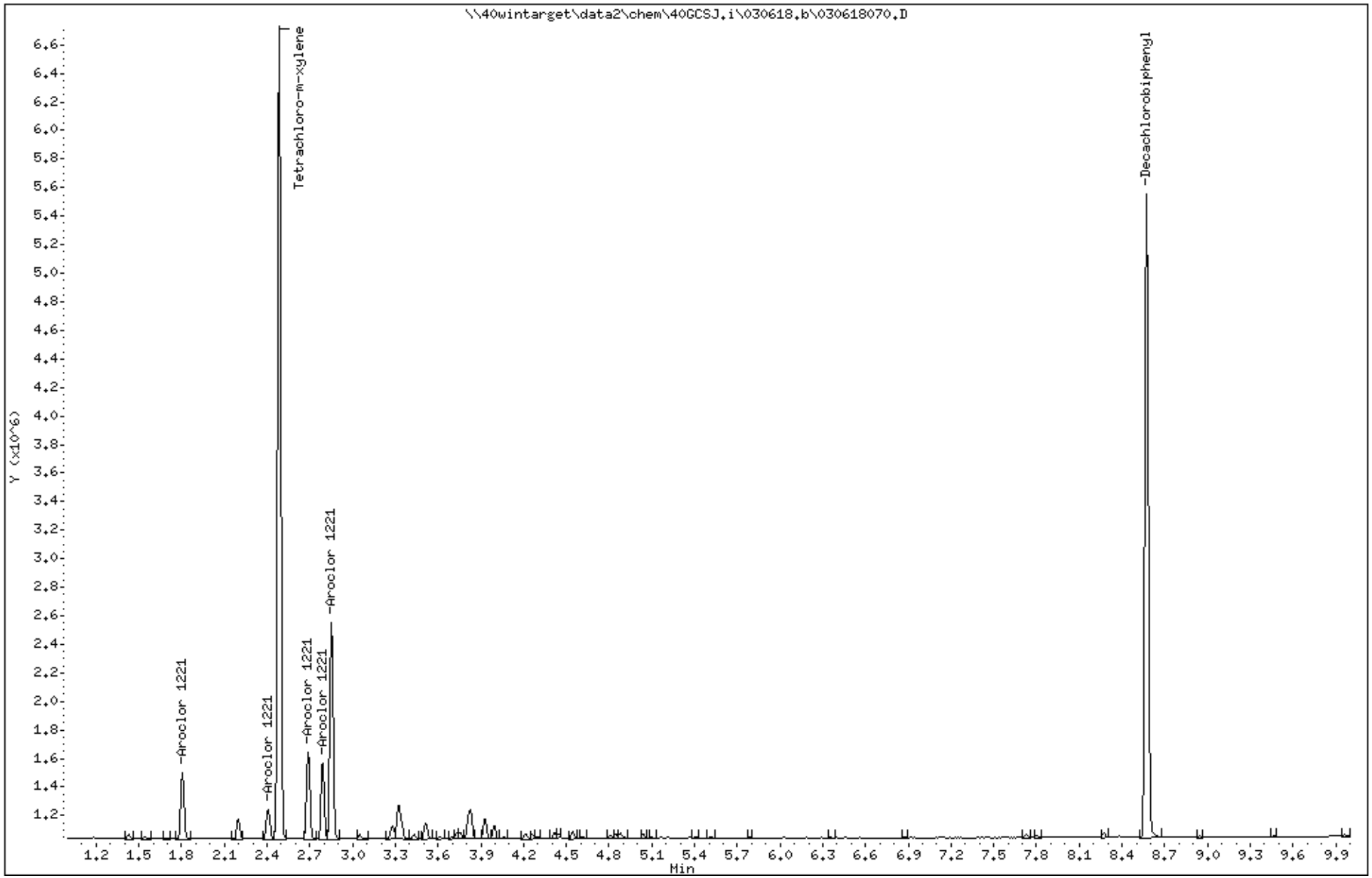
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSJ.i

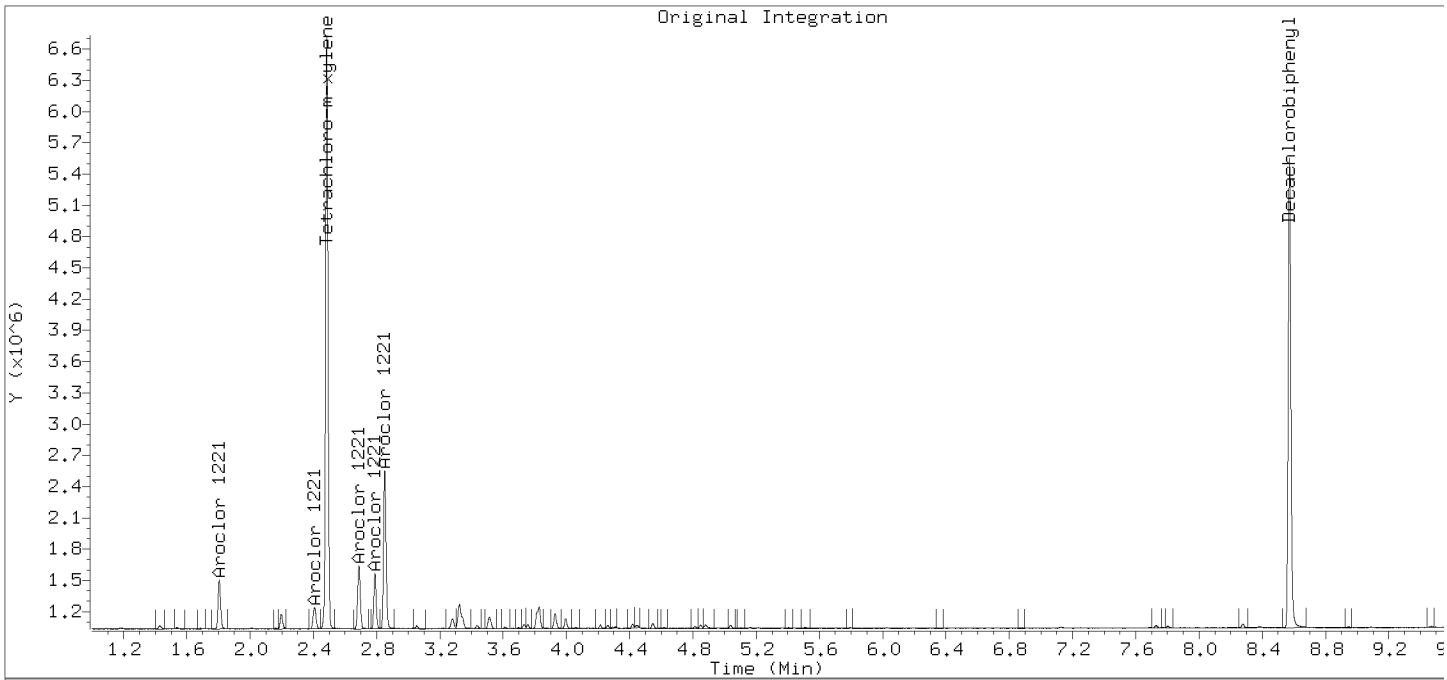
Operator: BLM

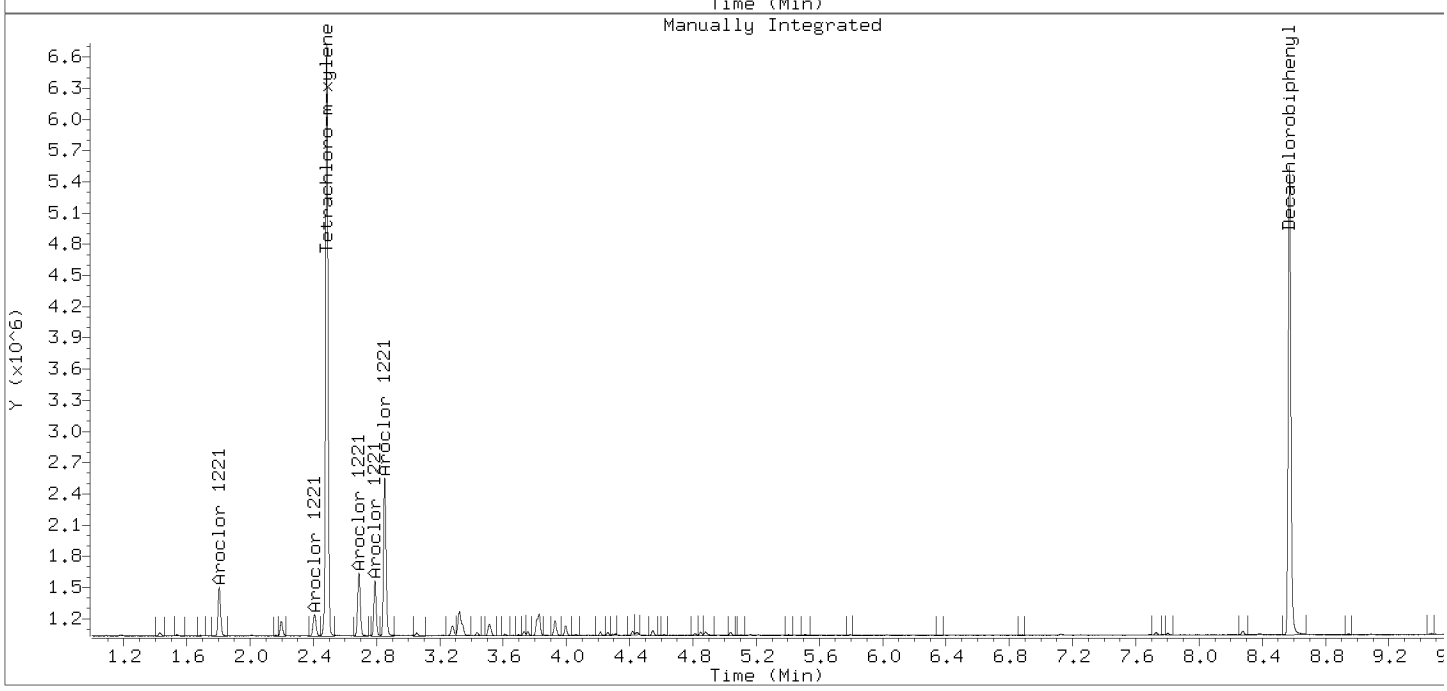
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

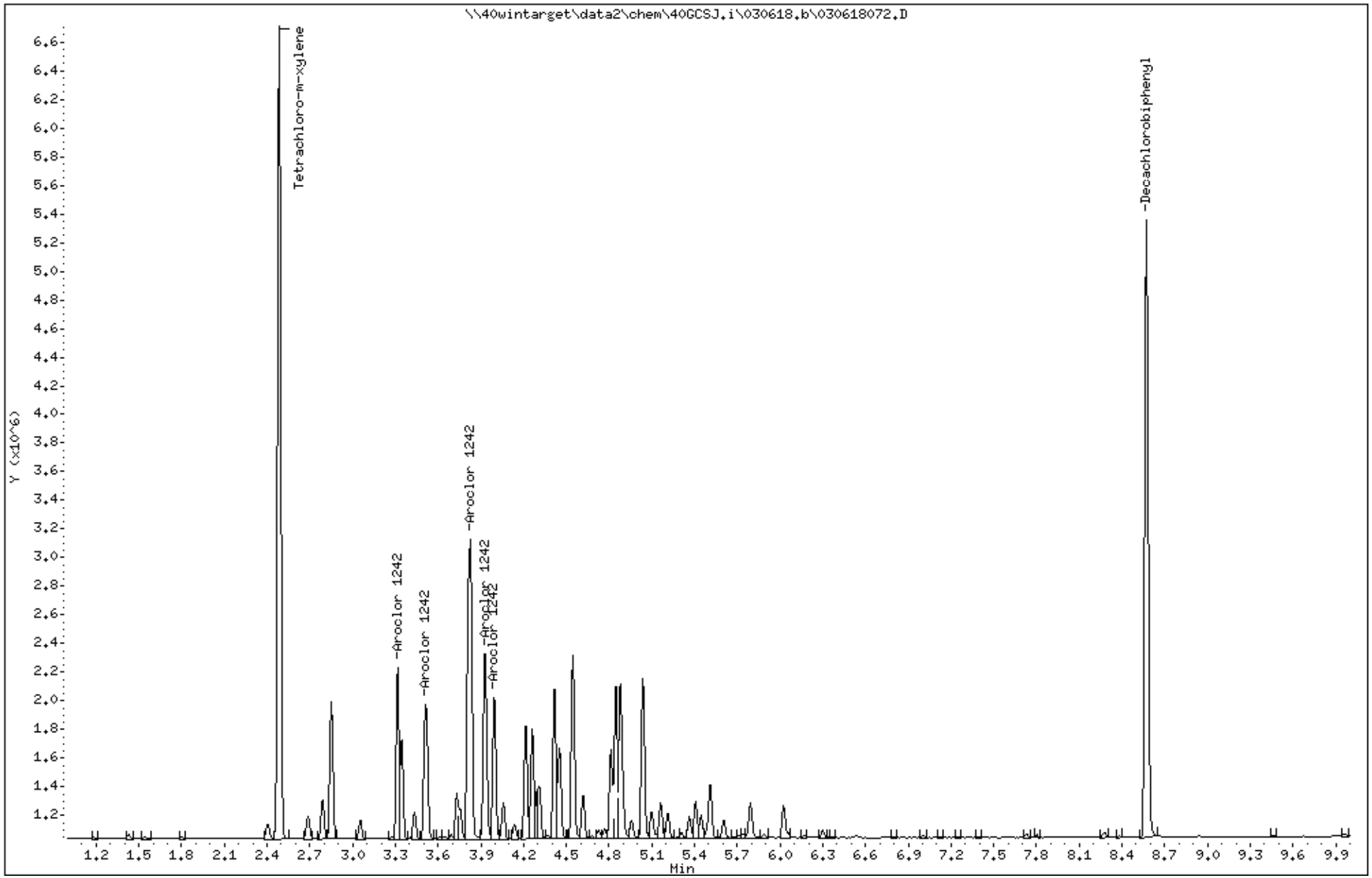
M - Compound response manually integrated.

Review Codes Legend

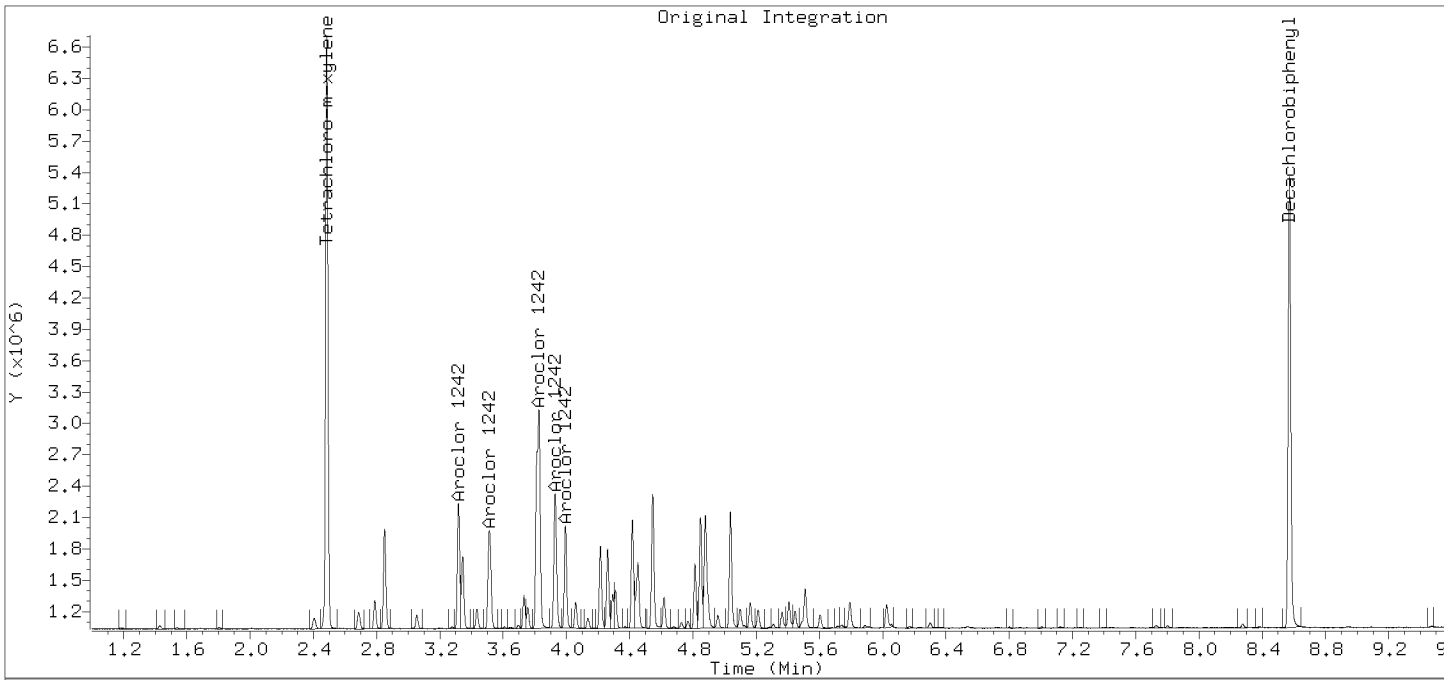
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

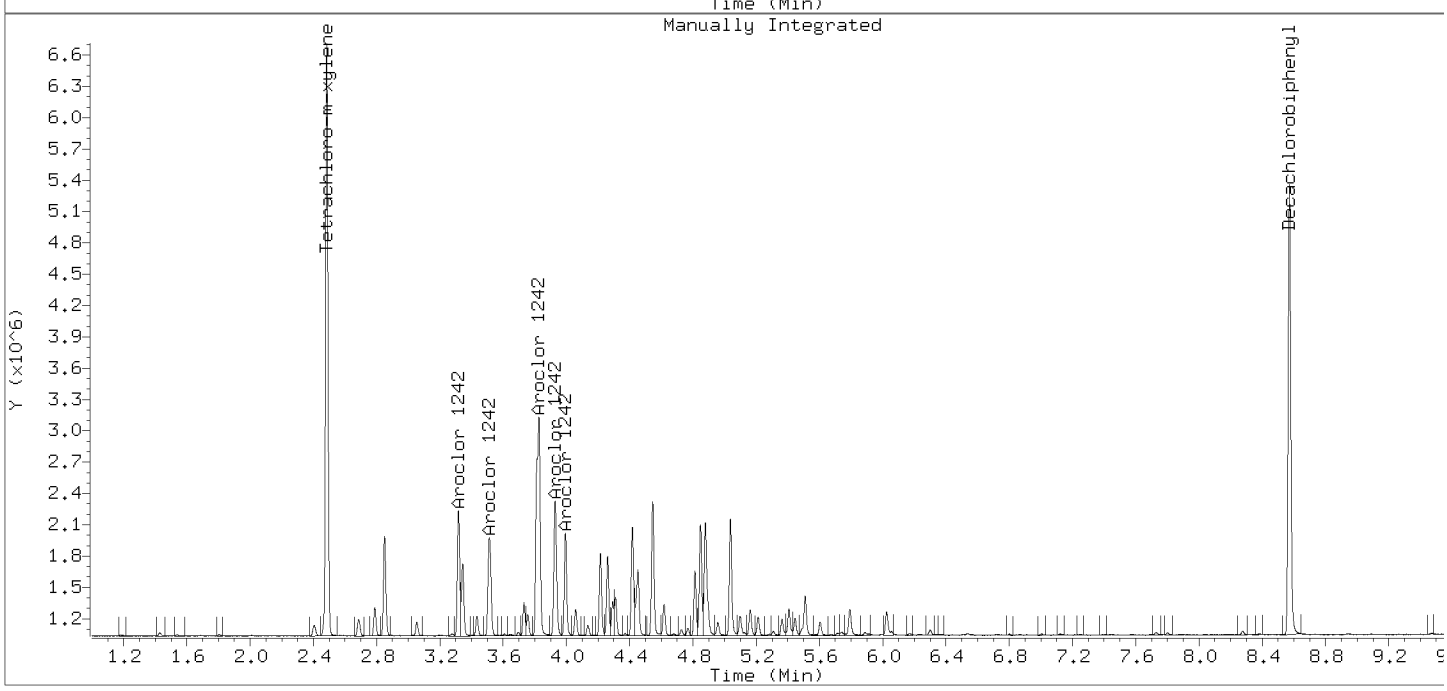
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

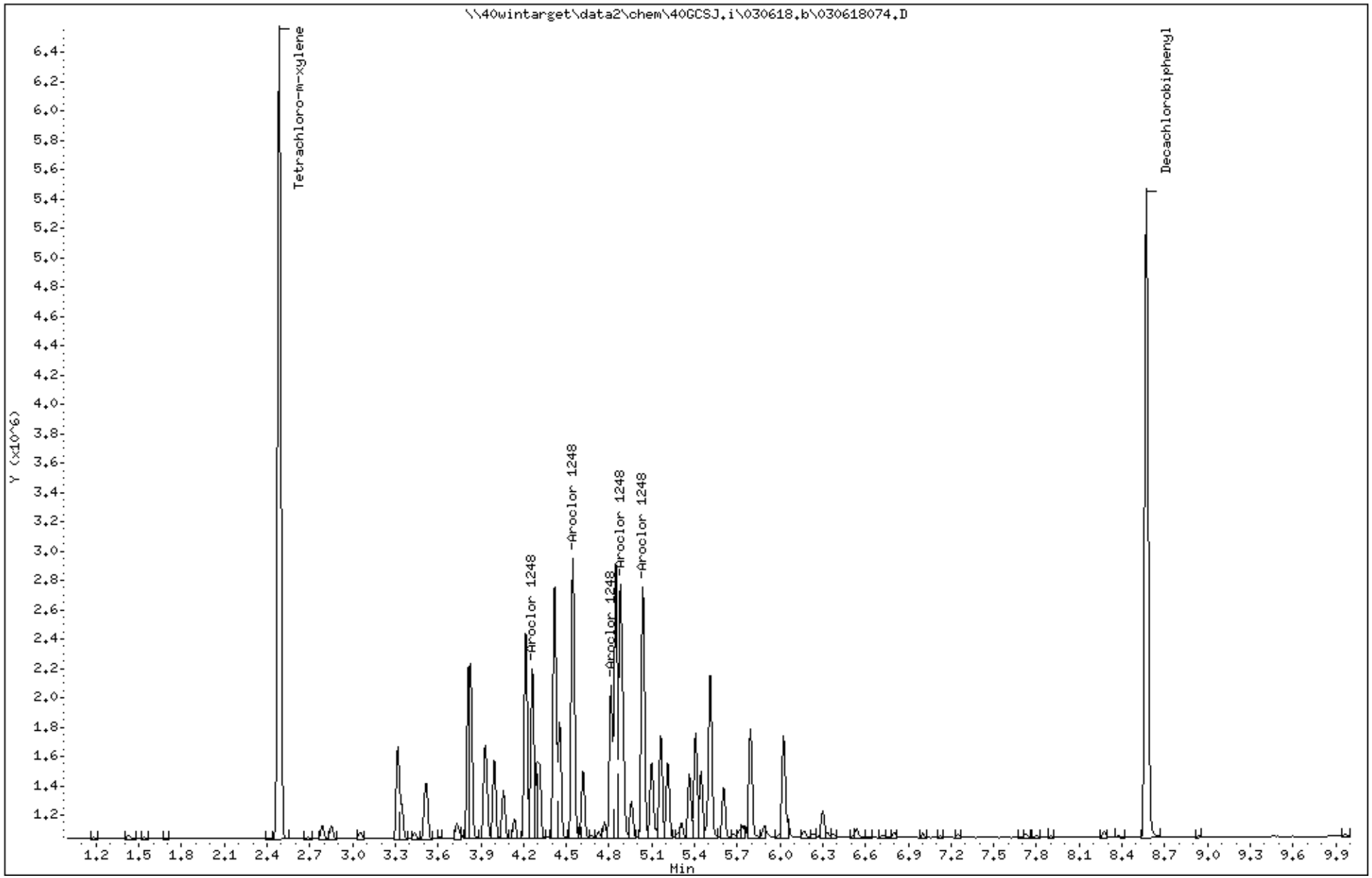
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

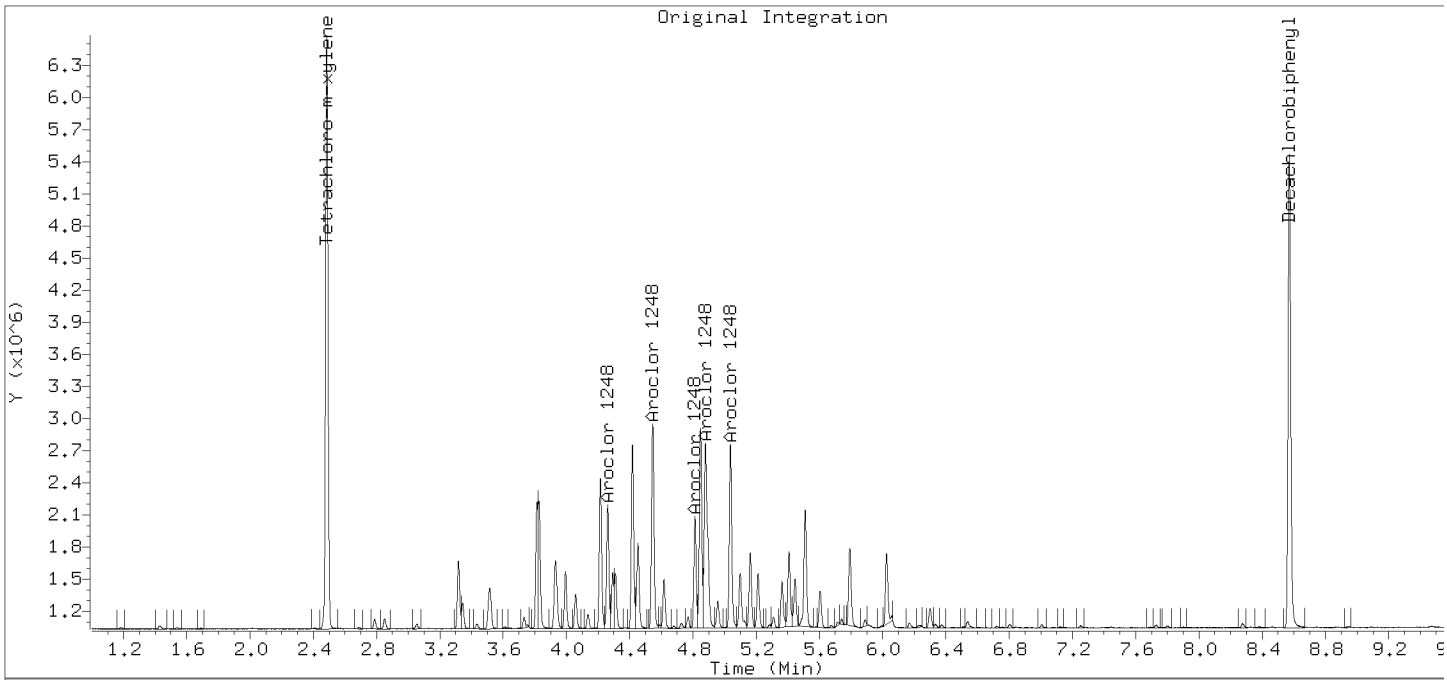
Operator: BLM

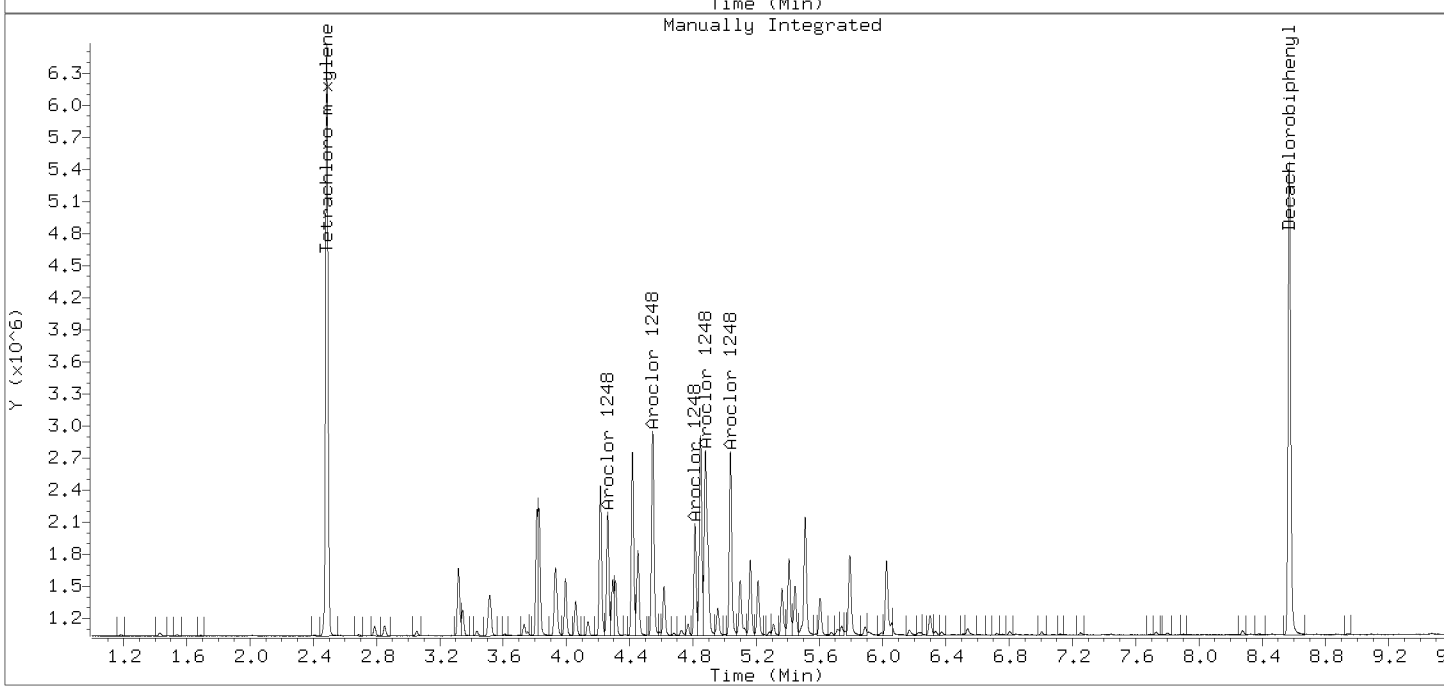
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

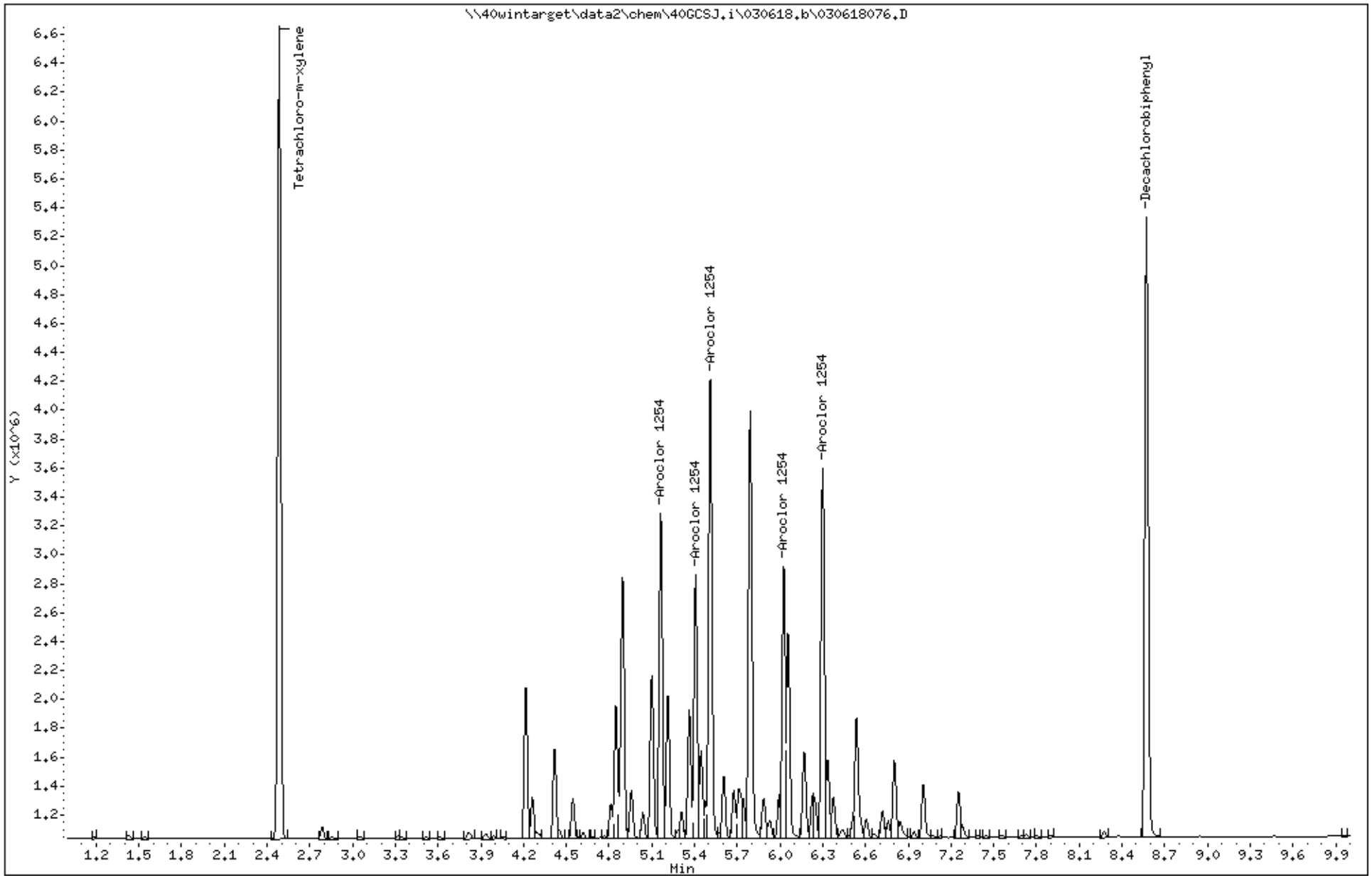
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

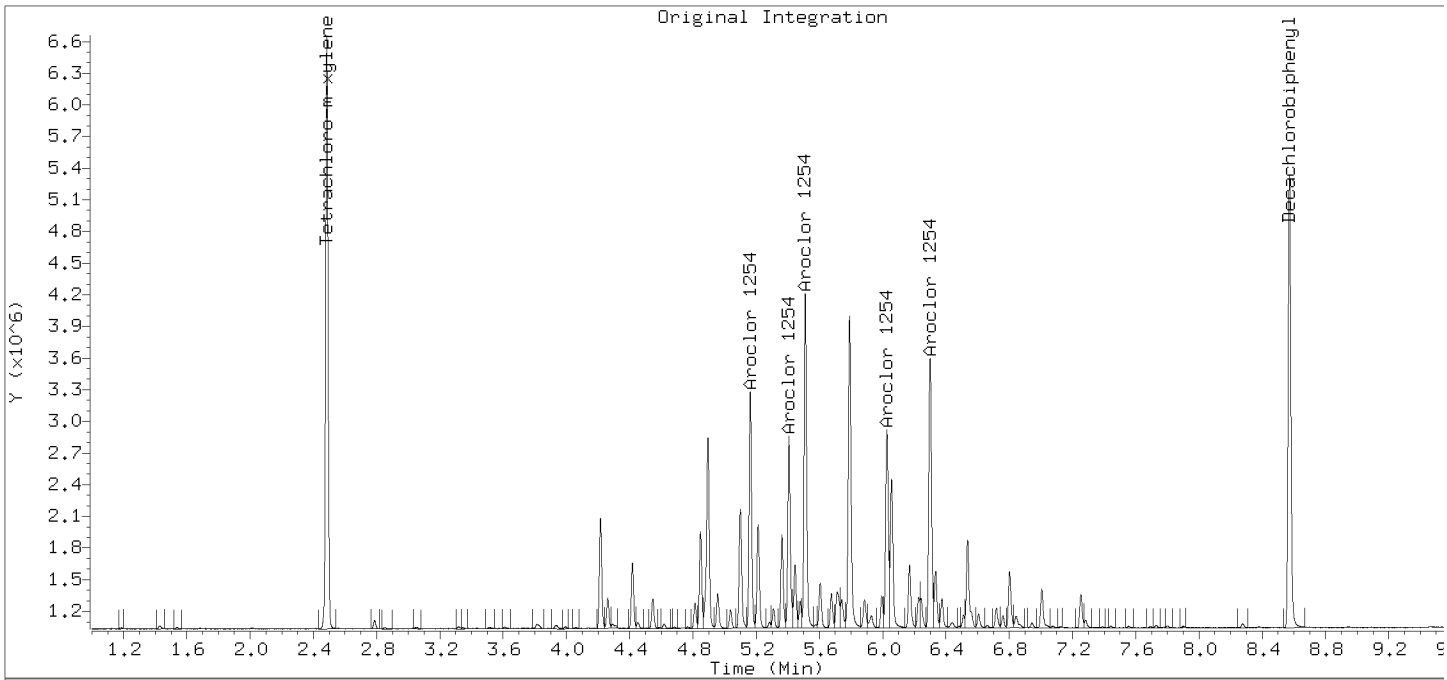
Operator: BLM

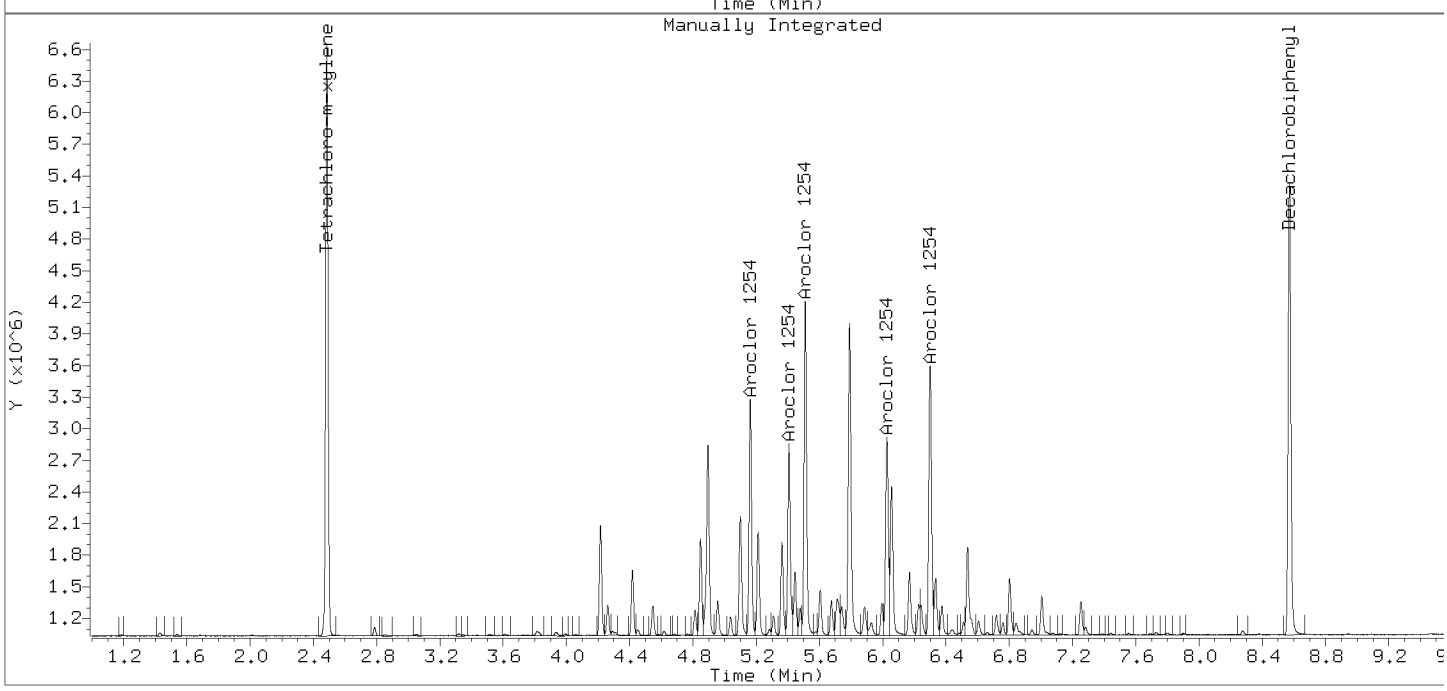
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D Page 3
Report Date: 22-Mar-2018 13:35

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.

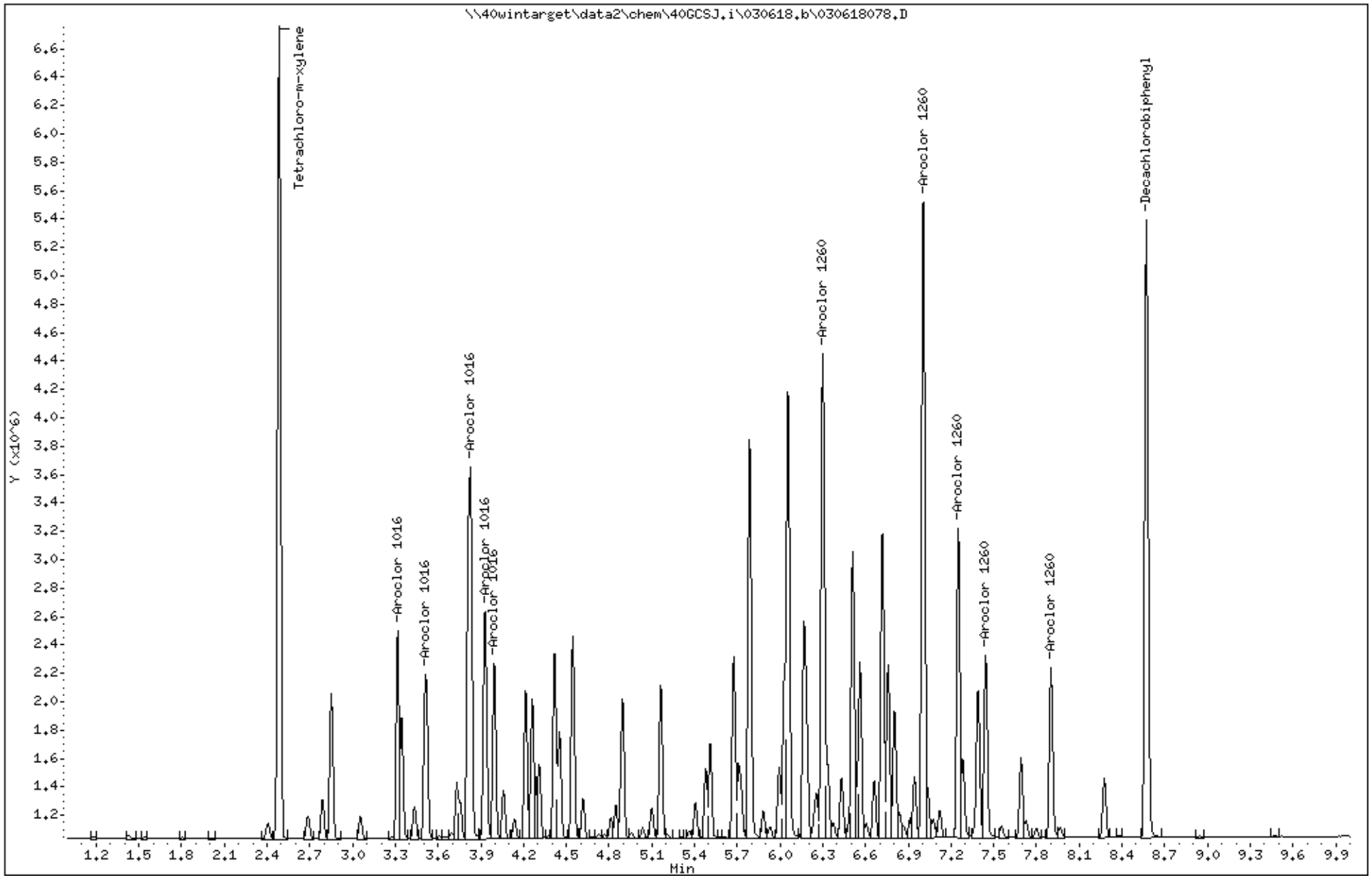
QC Flag Legend

Review Codes Legend

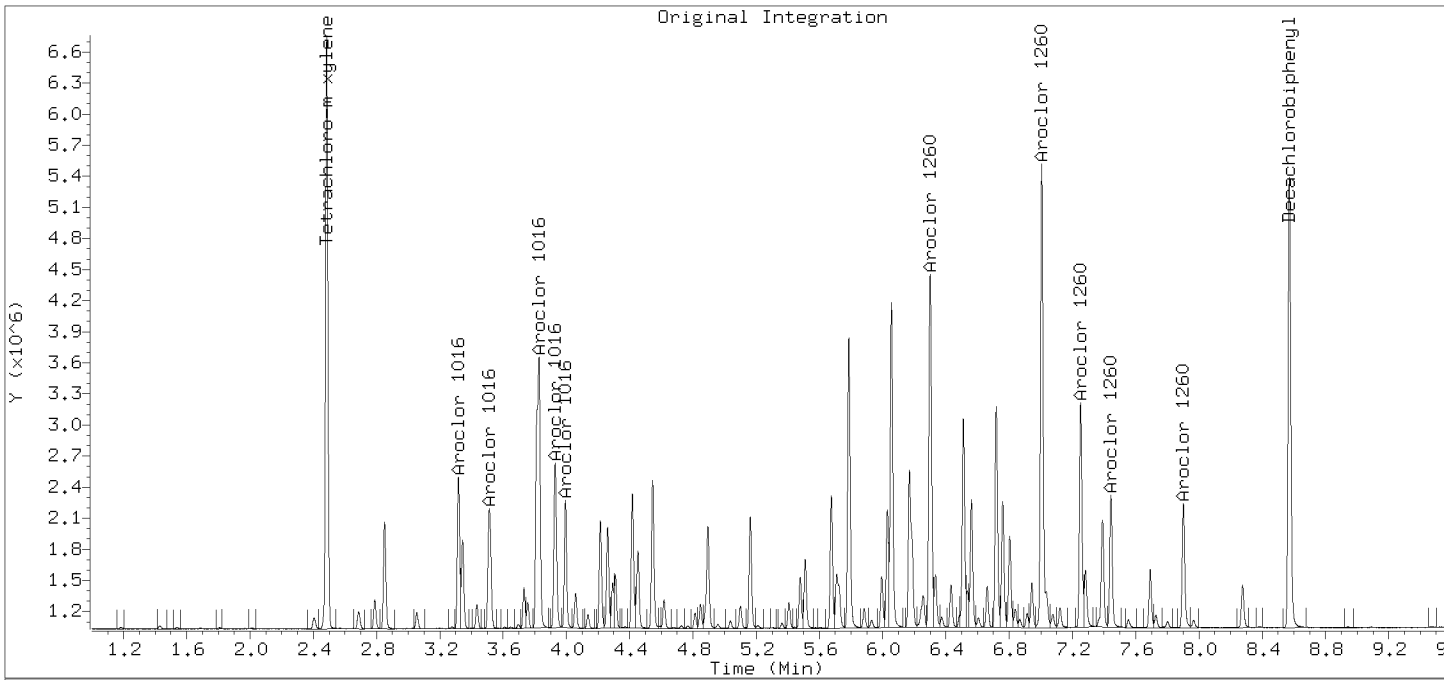
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

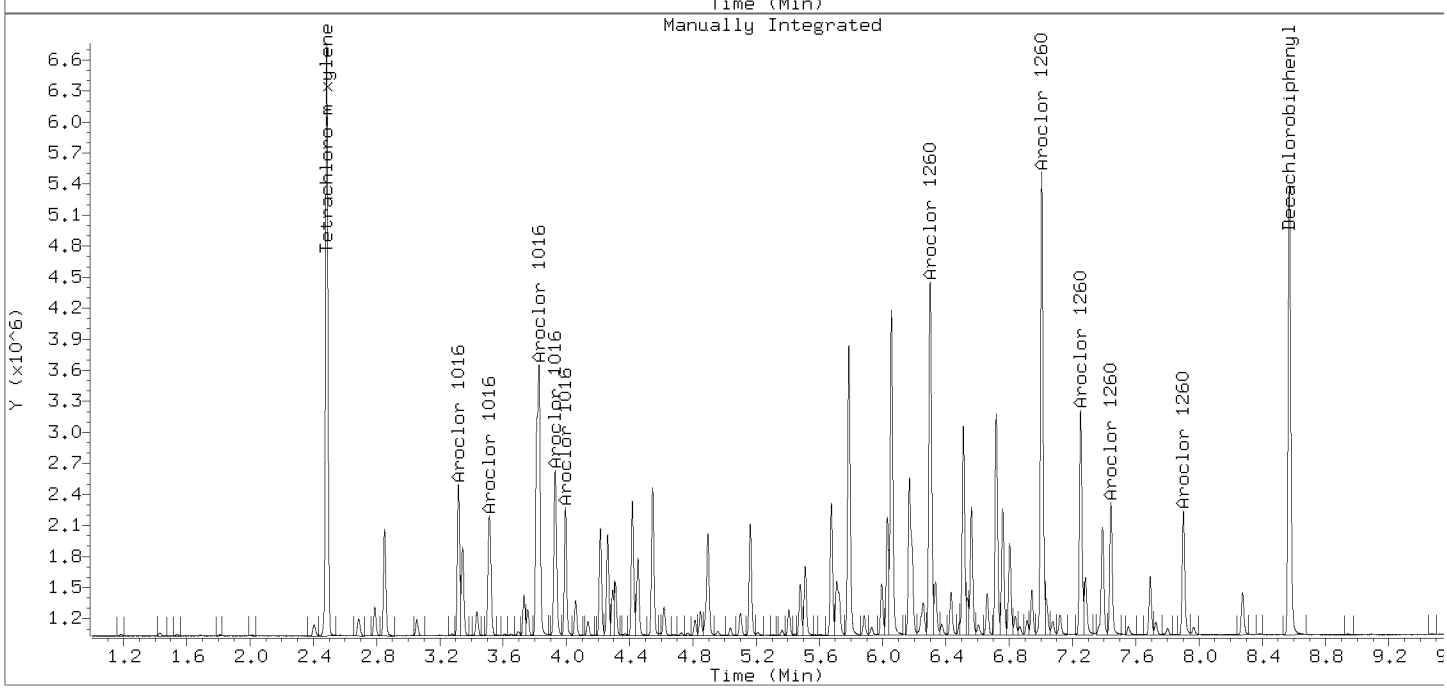
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\030718.b\030718008.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAR-2018 13:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 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	26356	19157	0.727	0.16			
1.431	41381	32937	0.796	0.25			
1.539	16998	14352	0.844	0.10			
1.687	18618	15452	0.830	0.11			
1.806	490234	421816	0.860	2.99		1 Aroclor 1221	BA
2.007	17498	14045	0.803	0.10			
2.198	145411	126911	0.873	0.88			
2.408	258531	185251	0.717	1.57		1 Aroclor 1221	BA
2.486	5846097	5493727	0.940	35.91	$	2 Tetrachloro-m-xylene	BA
2.689	643901	542237	0.842	3.93		1 Aroclor 1221	BA
2.790	500793	479262	0.957	3.05		1 Aroclor 1221	BA
2.852	1534887	1351554	0.881	9.36		1 Aroclor 1221	BA
3.023	10617	9733	0.917	0.06			
3.055	30636	30135	0.984	0.18			
3.281	92683	74810	0.807	0.56			
3.325	303544	189448	0.624	1.85			
3.438	37484	32248	0.860	0.22			
3.514	140110	102323	0.730	0.85			
3.611	13687	14588	1.066	0.08			
3.698	10241	11169	1.091	0.06			
3.731	40086	39546	0.987	0.24			
3.755	31647	33655	1.063	0.19			
3.781	18308	18529	1.012	0.11			
3.827	308434	186612	0.605	1.88			
3.930	150651	125955	0.836	0.91			
3.994	93357	86300	0.924	0.56			
4.059	18086	14760	0.816	0.11			
4.216	33530	33179	0.990	0.20			
4.263	28640	27534	0.961	0.17			
4.295	19584	13339	0.681	0.11			
4.418	41278	41215	0.998	0.25			
4.452	39818	25948	0.652	0.24			
4.546	49371	46323	0.938	0.30			
4.621	13745	11080	0.806	0.08			
4.816	20024	18384	0.918	0.12			
4.849	30955	31225	1.009	0.18			
4.881	43959	32318	0.735	0.26			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.037	30627	27963	0.913	0.18	
5.512	13581	11282	0.831	0.08	
5.793	13053	10262	0.786	0.07	
7.123	15666	11408	0.728	0.09	
7.731	26593	21963	0.826	0.16	
7.786	13756	14830	1.078	0.08	
7.804	25028	18445	0.737	0.15	
8.277	44290	34530	0.780	0.27	
8.382	29672	19185	0.647	0.18	
8.573	4903502	4051658	0.826	29.93	$ 12 Decachlorobiphenyl
8.946	36309	21484	0.592	0.22	
9.472	36527	23253	0.637	0.22	
9.966	31126	19344	0.621	0.19	
	16380912	14232664		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718008.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAR-2018 13:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5846096	0.05000	0.047		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.805	1.804	0.001	490233	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	258531	0.50000	0.47	0.00- 20.00	52.74	BA
2.688	2.688	0.000	643901	0.50000	0.46	0.00- 20.00	131.35	BA
2.789	2.789	0.000	500792	0.50000	0.45	0.00- 20.00	102.15	BA
2.851	2.851	0.000	1534887	0.50000	0.47	0.00- 20.00	313.09	BA
Average of Peak Amounts =					0.46400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	4903502	0.05000	0.045			

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\030718.b\030718008.D

Date : 07-MAR-2018 13:58

Client ID: 1221-CCV

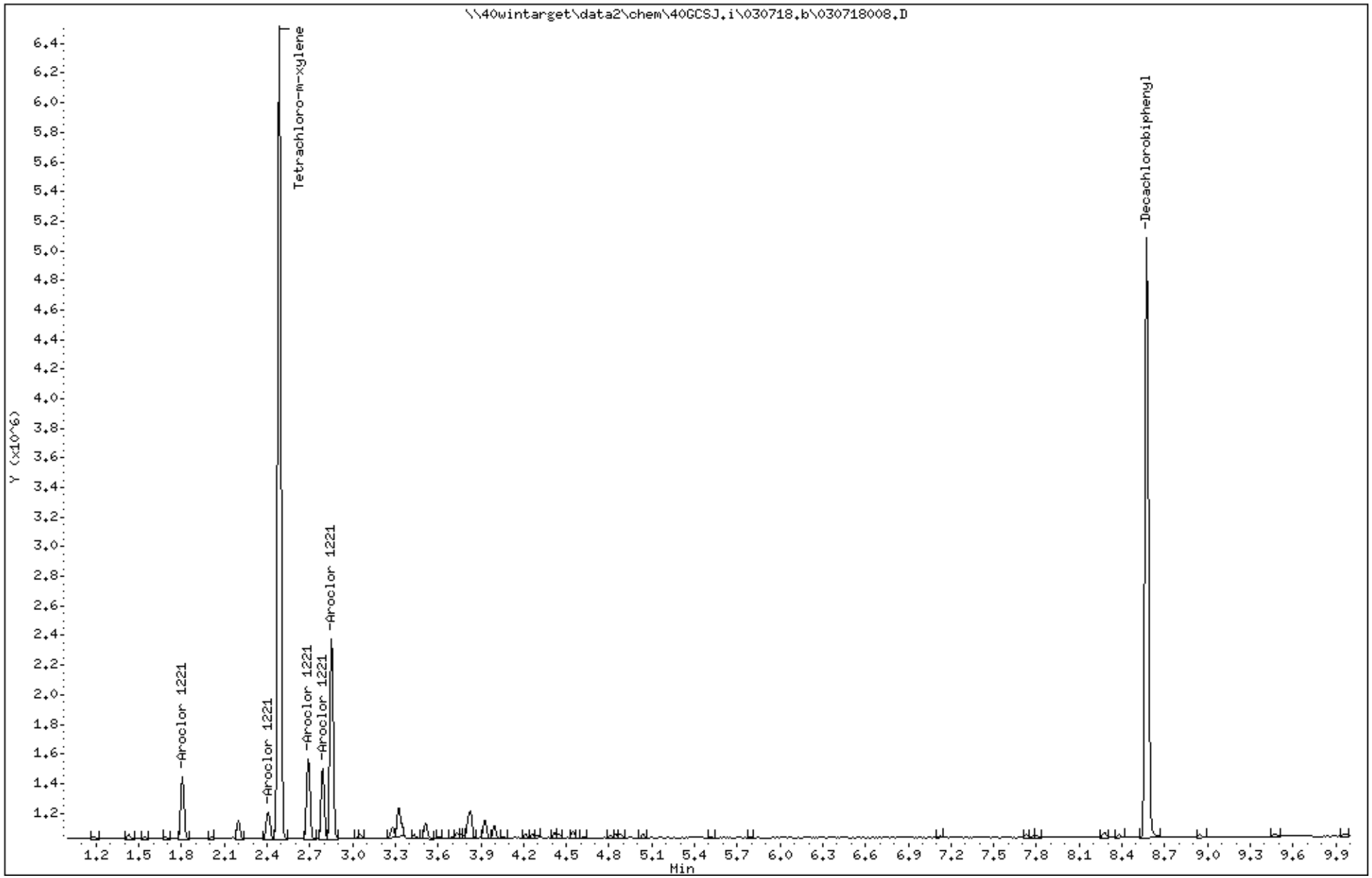
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

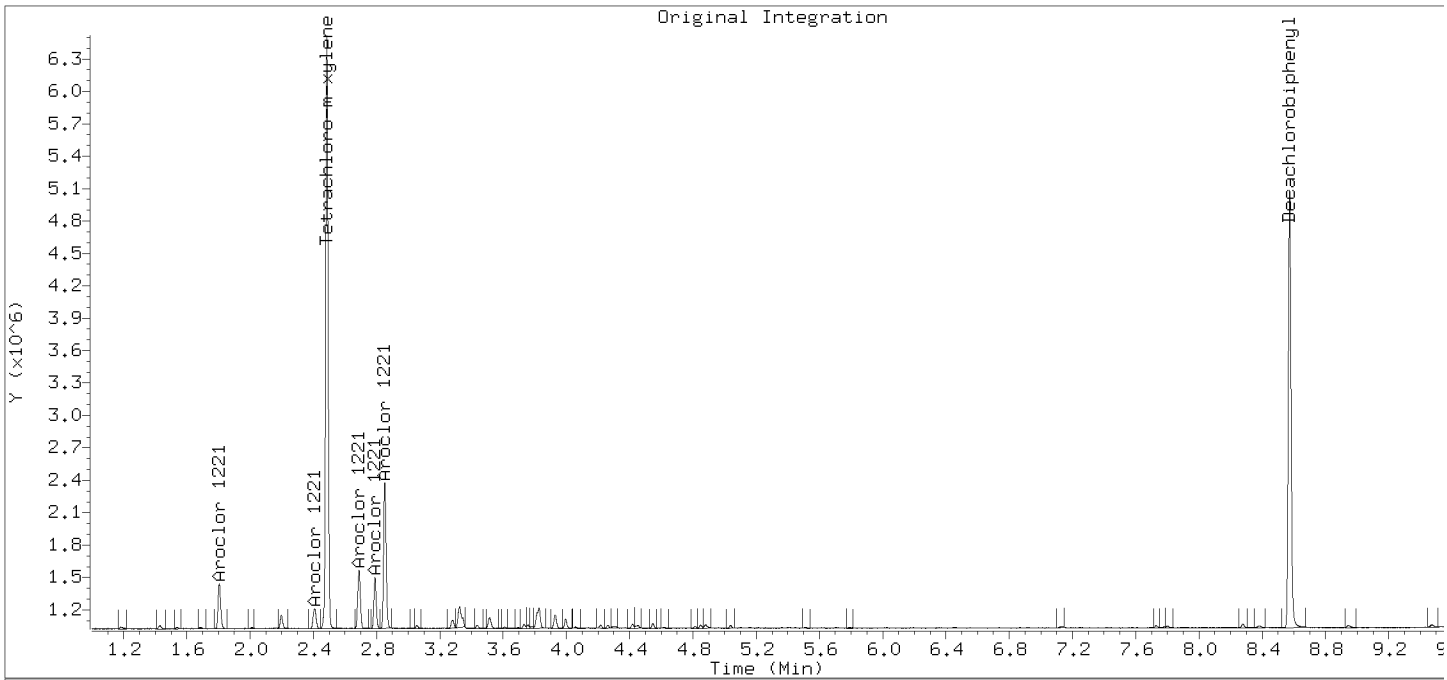
Operator: BLM

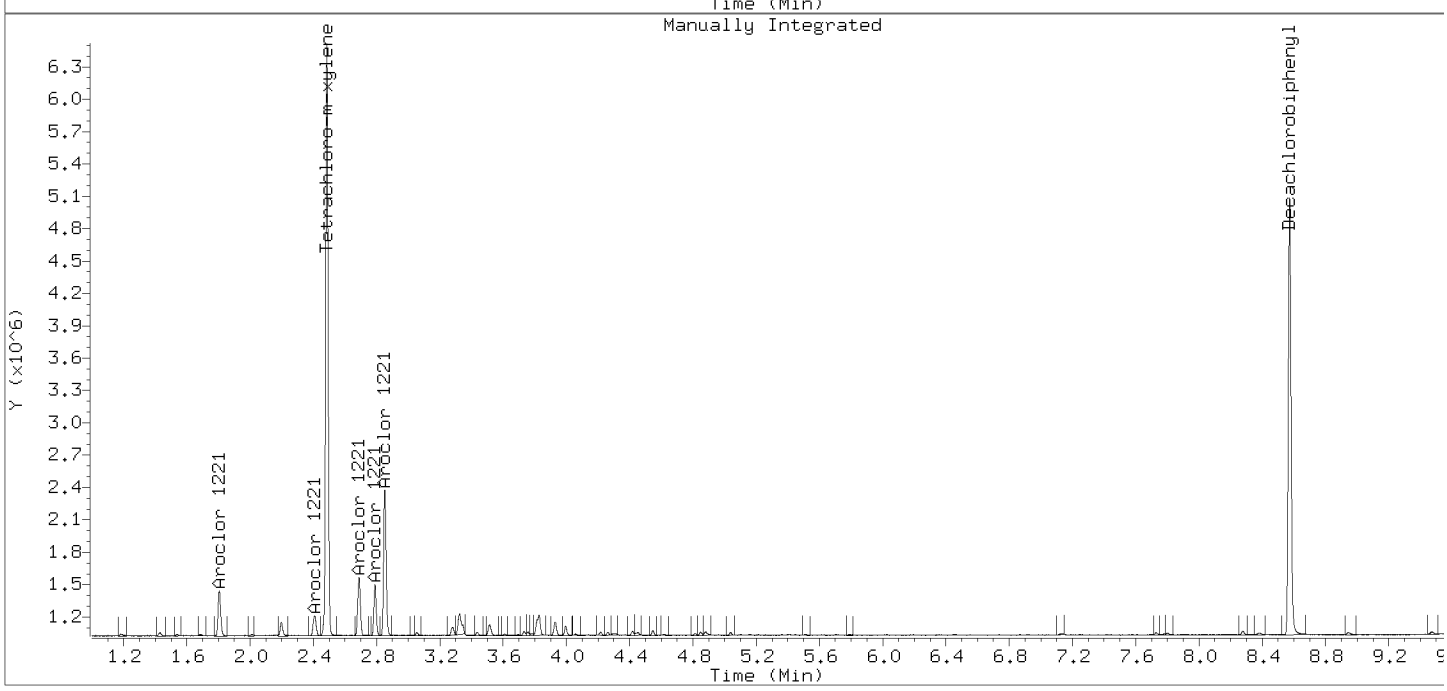
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718008.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 07-MAR-2018 13:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	482791	490233	BA
Aroclor 1221	482791	490233	BA
Aroclor 1221	482791	490233	BA
Aroclor 1221	482791	490233	BA
Aroclor 1221	482791	490233	BA
Tetrachloro-m-xylene	5835848	5846096	BA
Decachlorobiphenyl	4903502	4903502	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718032.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 07-MAR-2018 17:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	42187	31781	0.753	0.15		
1.429	39250	31190	0.795	0.14		
1.689	19615	16947	0.864	0.07		
1.805	299939	262951	0.877	1.08		
2.012	27796	19961	0.718	0.10		
2.198	92634	81382	0.879	0.33		
2.312	9498	5435	0.572	0.03		
2.405	203720	149555	0.734	0.73		
2.485	5963143	5775184	0.968	21.97	$ 2 Tetrachloro-m-xylene	
2.688	444781	367327	0.826	1.60		
2.789	414273	384773	0.929	1.49		
2.851	1328943	1195286	0.899	4.79	4 Aroclor 1232	BA
3.029	21709	17058	0.786	0.07		
3.054	93926	79137	0.843	0.33		
3.280	78796	56837	0.721	0.28		
3.319	776282	700124	0.902	2.80		
3.345	403479	385495	0.955	1.45		
3.435	131793	108384	0.822	0.47		
3.513	704348	508622	0.722	2.54	4 Aroclor 1232	BA
3.611	27222	25435	0.934	0.09		
3.645	21754	12461	0.573	0.07		
3.694	28795	26093	0.906	0.10		
3.732	184583	192148	1.041	0.66		
3.756	130094	123173	0.947	0.46		
3.780	32866	33497	1.019	0.11		
3.827	2040109	1182432	0.580	7.36	4 Aroclor 1232	BA
3.929	863732	738388	0.855	3.11	4 Aroclor 1232	BA
3.994	578249	550083	0.951	2.08	4 Aroclor 1232	BA
4.059	157012	132081	0.841	0.56		
4.136	67030	53753	0.802	0.24		
4.216	405908	389622	0.960	1.46		
4.262	394142	376287	0.955	1.42		
4.293	181816	181371	0.998	0.65		
4.311	201508	189603	0.941	0.72		
4.371	25384	18336	0.722	0.09		
4.417	556456	523979	0.942	2.00		
4.452	453196	319547	0.705	1.63		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.546	707543	672137	0.950	2.55	
4.618	168947	155811	0.922	0.60	
4.727	35842	33990	0.948	0.12	
4.766	42562	37601	0.883	0.15	
4.813	325343	322379	0.991	1.17	
4.848	567230	561145	0.989	2.04	
4.879	739495	582294	0.787	2.66	
4.960	75227	59279	0.788	0.27	
5.037	614588	586805	0.955	2.21	
5.099	99272	85966	0.866	0.35	
5.162	130195	118721	0.912	0.46	
5.212	91220	83296	0.913	0.32	
5.283	10845	9977	0.920	0.03	
5.309	20878	18149	0.869	0.07	
5.362	88626	79770	0.900	0.31	
5.407	143219	123433	0.862	0.51	
5.446	83335	76138	0.914	0.30	
5.490	29908	38622	1.291	0.10	
5.509	199416	177854	0.892	0.71	
5.605	67511	61929	0.917	0.24	
5.792	152395	132262	0.868	0.55	
5.887	19169	15470	0.807	0.06	
6.024	121398	112268	0.925	0.43	
6.056	32461	26282	0.810	0.11	
6.300	40407	35254	0.872	0.14	
6.369	9268	7926	0.855	0.03	
6.450	15778	11744	0.744	0.05	
6.718	12291	11793	0.959	0.04	
6.804	11905	10305	0.866	0.04	
6.911	11333	9418	0.831	0.04	
7.006	31204	23262	0.745	0.11	
7.076	11172	9144	0.818	0.04	
7.127	10355	9547	0.922	0.03	
7.251	22986	18196	0.792	0.08	
7.726	27534	22919	0.832	0.09	
7.779	16291	11146	0.684	0.05	
8.275	47180	40107	0.850	0.17	
8.380	24753	20284	0.819	0.08	
8.457	10414	8742	0.839	0.03	
8.572	5256397	4470233	0.850	18.97	$ 12 Decachlorobiphenyl
8.945	32596	21536	0.661	0.11	
9.469	45383	27583	0.608	0.16	
9.964	54566	35760	0.655	0.19	
	27704405	24222195		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718032.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 07-MAR-2018 17:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32 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	5963142	0.05000	0.048			
4 Aroclor 1232						CAS #: 1114-16-5		
2.851	2.851	0.000	1328943	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	704348	0.50000	0.52	0.00- 20.00	53.00	BA
3.827	3.827	0.000	2040109	0.50000	0.54	0.00- 20.00	153.51	BA
3.929	3.929	0.000	863731	0.50000	0.54	0.00- 20.00	64.99	BA
3.994	3.995	-0.001	578248	0.50000	0.53	0.00- 20.00	43.51	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5256397	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.

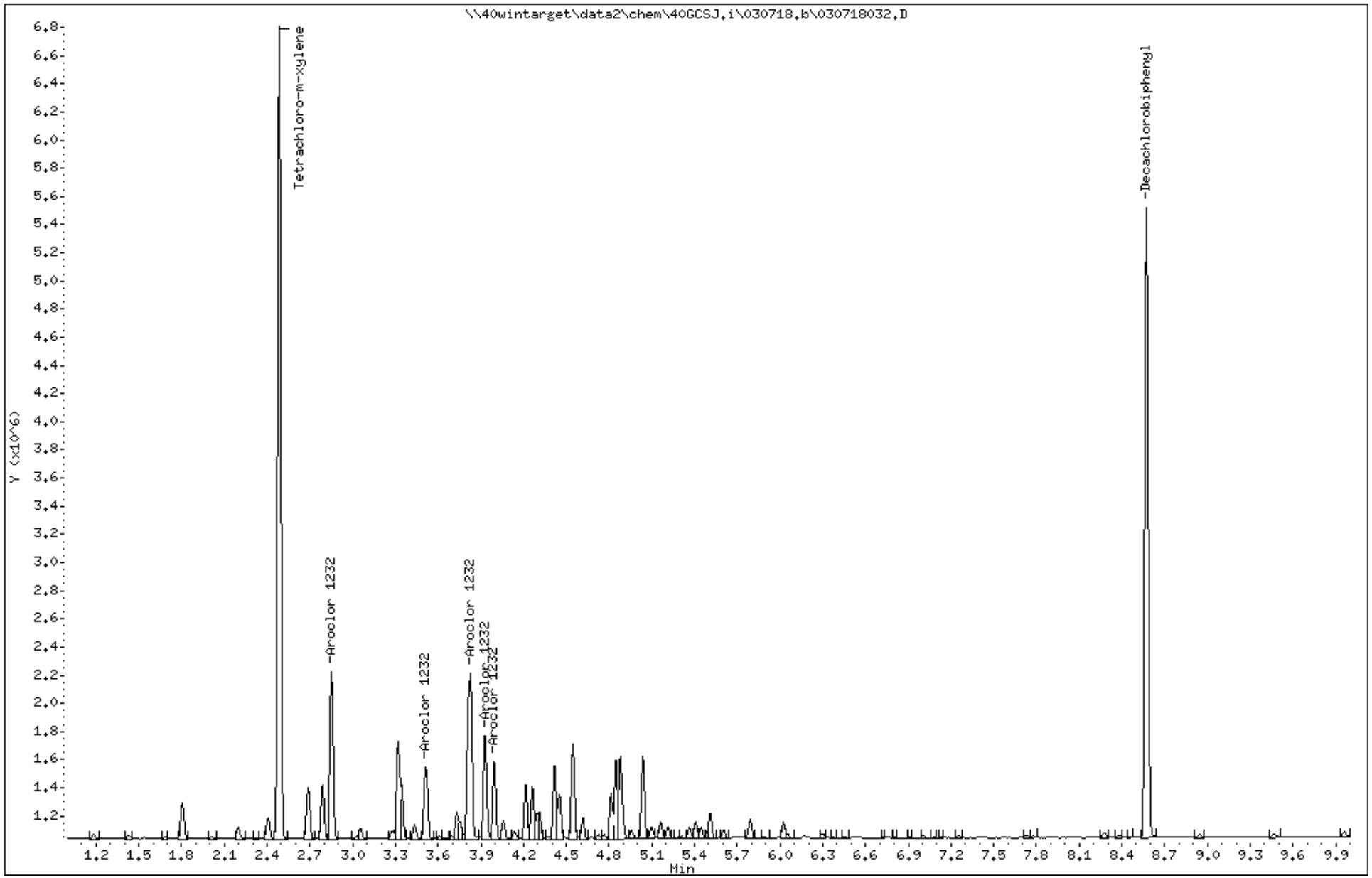
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718032.D
Date : 07-MAR-2018 17:11
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSJ.i

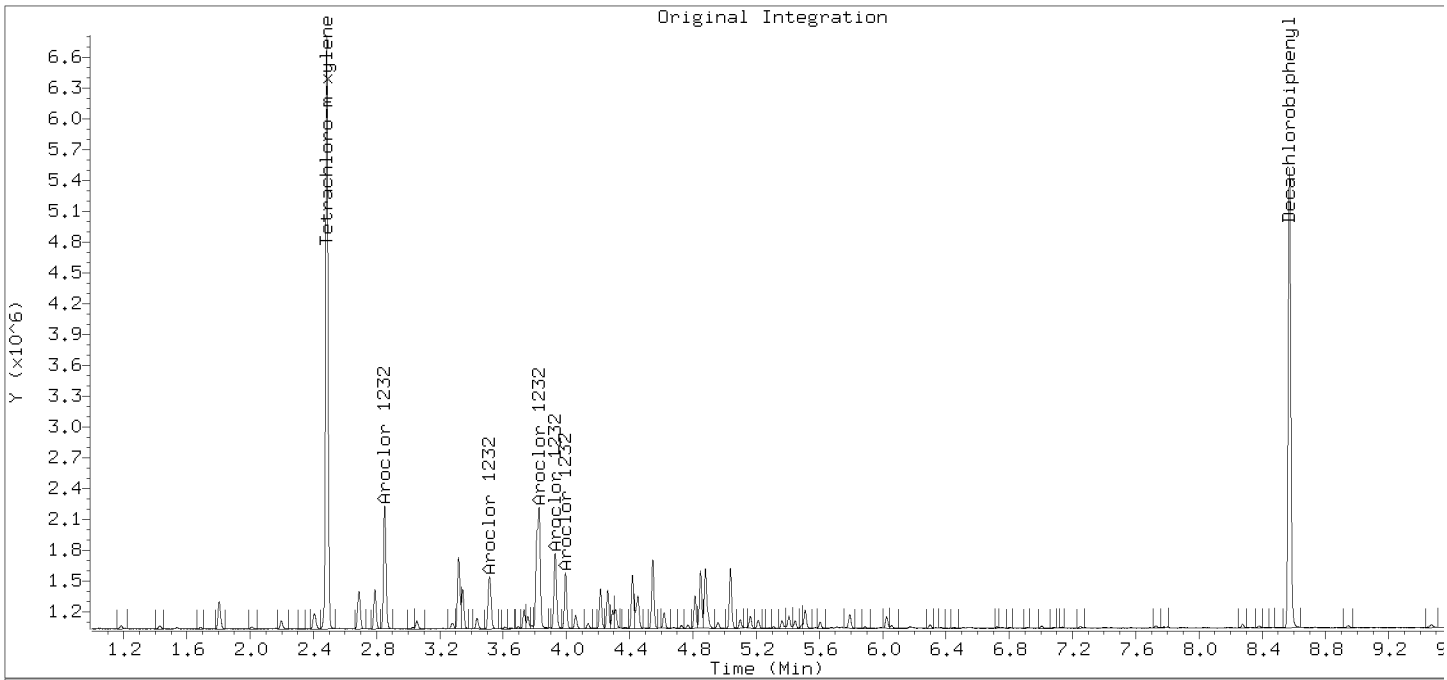
Operator: BLM

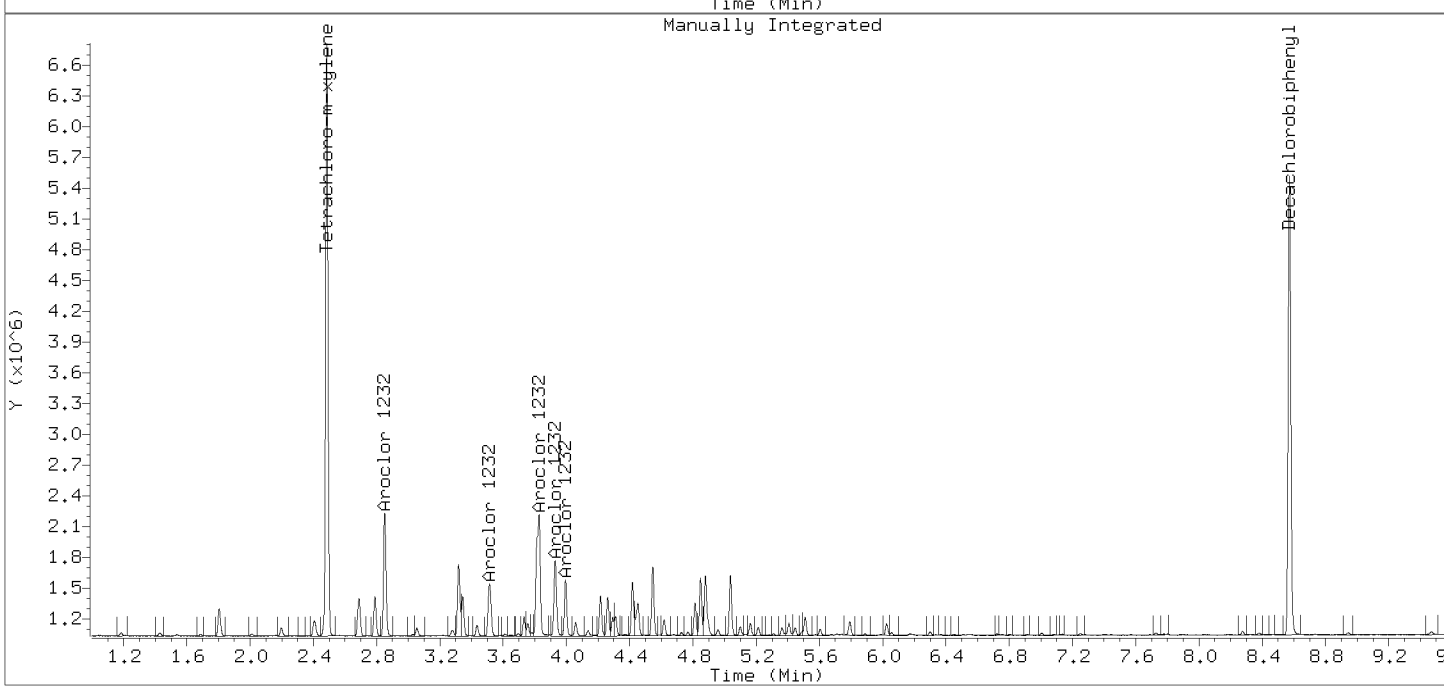
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718032.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 07-MAR-2018 17:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1319965	1328943	BA
Aroclor 1232	1319965	1328943	BA
Aroclor 1232	1319965	1328943	BA
Aroclor 1232	1319965	1328943	BA
Aroclor 1232	1319965	1328943	BA
Tetrachloro-m-xylene	5963142	5963142	
Decachlorobiphenyl	5256397	5256397	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718056.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 07-MAR-2018 20:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 56 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	19860	16419	0.827	0.04		
1.429	44981	34695	0.771	0.11		
1.538	20818	16194	0.778	0.05		
1.687	13369	11787	0.882	0.03		
1.801	18510	13655	0.738	0.04		
2.011	9219	10261	1.113	0.02		
2.406	124982	96185	0.770	0.31		
2.484	6106358	5868718	0.961	15.67	$ 2 Tetrachloro-m-xylene	
2.686	177107	147786	0.834	0.44		
2.789	272279	258178	0.948	0.68		
2.851	960352	913120	0.951	2.40		
3.055	143957	132755	0.922	0.35		
3.276	24186	19821	0.820	0.06		
3.318	1325172	1230689	0.929	3.31	3 Aroclor 1242	BA
3.344	729491	698033	0.957	1.82		
3.433	204558	190511	0.931	0.51		
3.513	1294606	948734	0.733	3.23	3 Aroclor 1242	BA
3.607	24415	21076	0.863	0.06		
3.644	19550	15071	0.771	0.04		
3.696	38589	36370	0.942	0.09		
3.732	331416	328594	0.991	0.82		
3.755	220105	207847	0.944	0.55		
3.826	3745650	2229446	0.595	9.36	3 Aroclor 1242	BA
3.929	1598963	1343724	0.840	3.99	3 Aroclor 1242	BA
3.994	1056309	1049622	0.994	2.64	3 Aroclor 1242	BA
4.058	320265	285665	0.892	0.80		
4.135	122695	111317	0.907	0.30		
4.215	870787	832644	0.956	2.17		
4.261	838155	811408	0.968	2.09		
4.291	361511	363770	1.006	0.90		
4.310	425841	420088	0.986	1.06		
4.370	27681	22634	0.818	0.06		
4.417	1168829	1102230	0.943	2.92		
4.451	909226	664792	0.731	2.27		
4.545	1506589	1408205	0.935	3.76		
4.617	336893	329675	0.979	0.84		
4.677	24361	20638	0.847	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.724	73572	64008	0.870	0.18	
4.767	84793	81178	0.957	0.21	
4.812	726249	714216	0.983	1.81	
4.847	1234379	1186057	0.961	3.08	
4.878	1555340	1232464	0.792	3.88	
4.958	167394	139072	0.831	0.41	
5.037	1318114	1269393	0.963	3.29	
5.099	272979	213600	0.782	0.68	
5.162	322514	286860	0.889	0.80	
5.212	238968	230546	0.965	0.59	
5.283	18291	18706	1.023	0.04	
5.307	57207	49253	0.861	0.14	
5.363	223051	184129	0.826	0.55	
5.406	345091	306803	0.889	0.86	
5.446	223932	199882	0.893	0.55	
5.509	575422	452344	0.786	1.43	
5.604	173269	154444	0.891	0.43	
5.675	13934	12073	0.866	0.03	
5.715	33451	30177	0.902	0.08	
5.740	50850	43572	0.857	0.12	
5.766	17614	21221	1.205	0.04	
5.790	400814	349209	0.871	1.00	
5.888	59679	41864	0.701	0.14	
6.023	356098	317234	0.891	0.89	
6.055	53605	48985	0.914	0.13	
6.166	38545	21070	0.547	0.09	
6.225	27915	18180	0.651	0.06	
6.299	111180	95550	0.859	0.27	
6.335	23869	21596	0.905	0.05	
6.375	17713	14717	0.831	0.04	
6.536	46727	37014	0.792	0.11	
6.802	26668	25096	0.941	0.06	
6.841	9313	8922	0.958	0.02	
7.005	10416	8702	0.835	0.02	
7.130	10801	6332	0.586	0.02	
7.251	16071	11390	0.709	0.04	
7.726	21698	18347	0.846	0.05	
8.274	55796	43765	0.784	0.13	
8.375	15697	10408	0.663	0.03	
8.570	5512747	4737938	0.859	13.78	$ 12 Decachlorobiphenyl
9.961	10445	9488	0.908	0.02	
	39989846	34948162		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718056.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 07-MAR-2018 20:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 56 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	6106357	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1325172	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1294606	0.50000	0.51	0.00- 20.00	97.69	BA
3.826	3.827	-0.001	3745649	0.50000	0.53	0.00- 20.00	282.65	BA
3.928	3.929	-0.001	1598962	0.50000	0.52	0.00- 20.00	120.66	BA
3.994	3.995	-0.001	1056308	0.50000	0.52	0.00- 20.00	79.71	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5512747	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

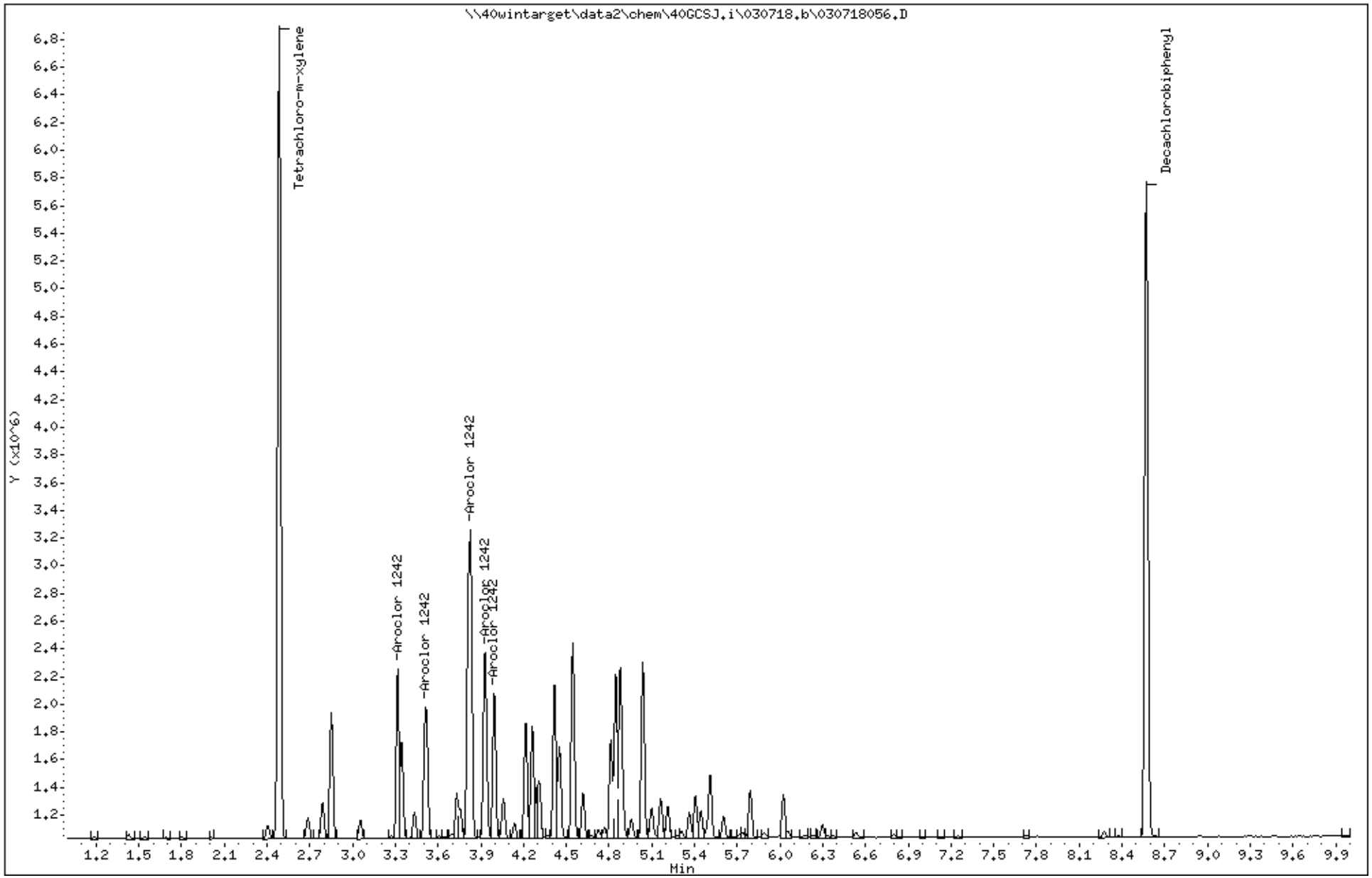
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718056.D
Date : 07-MAR-2018 20:25
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

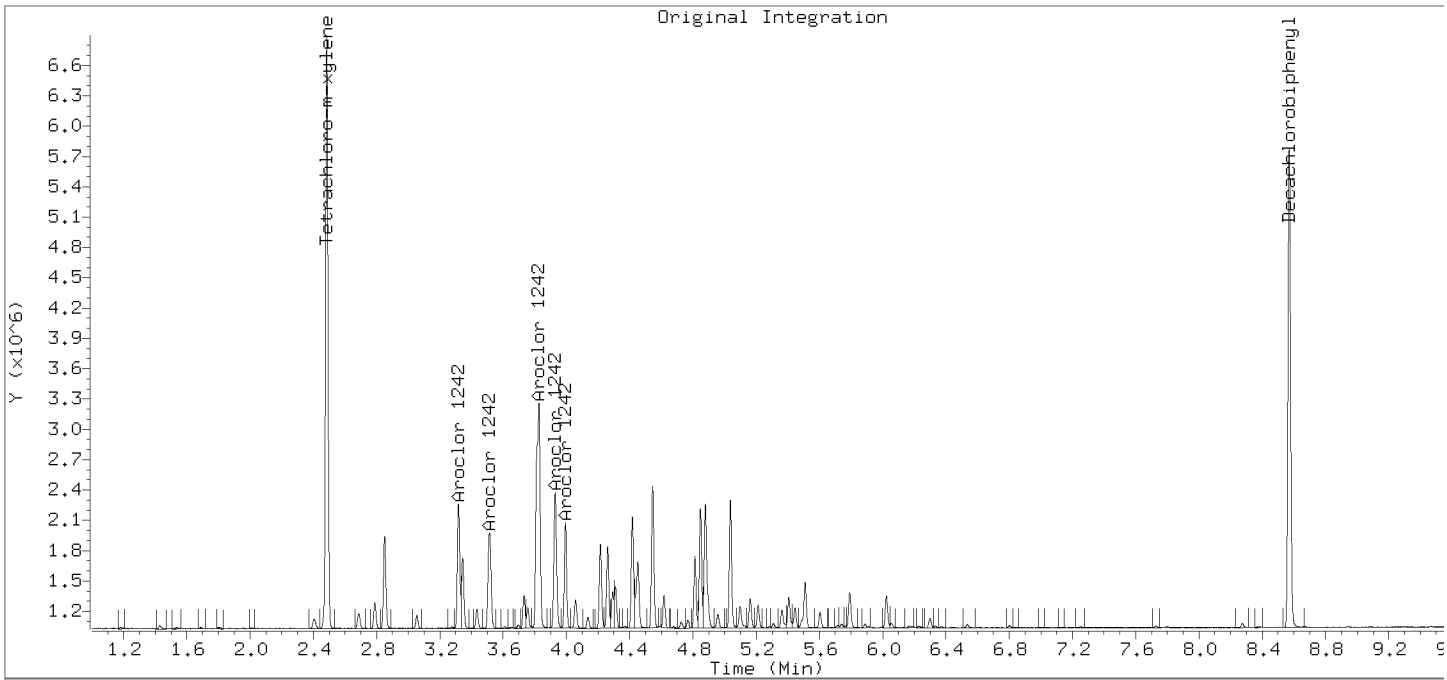
Operator: BLM

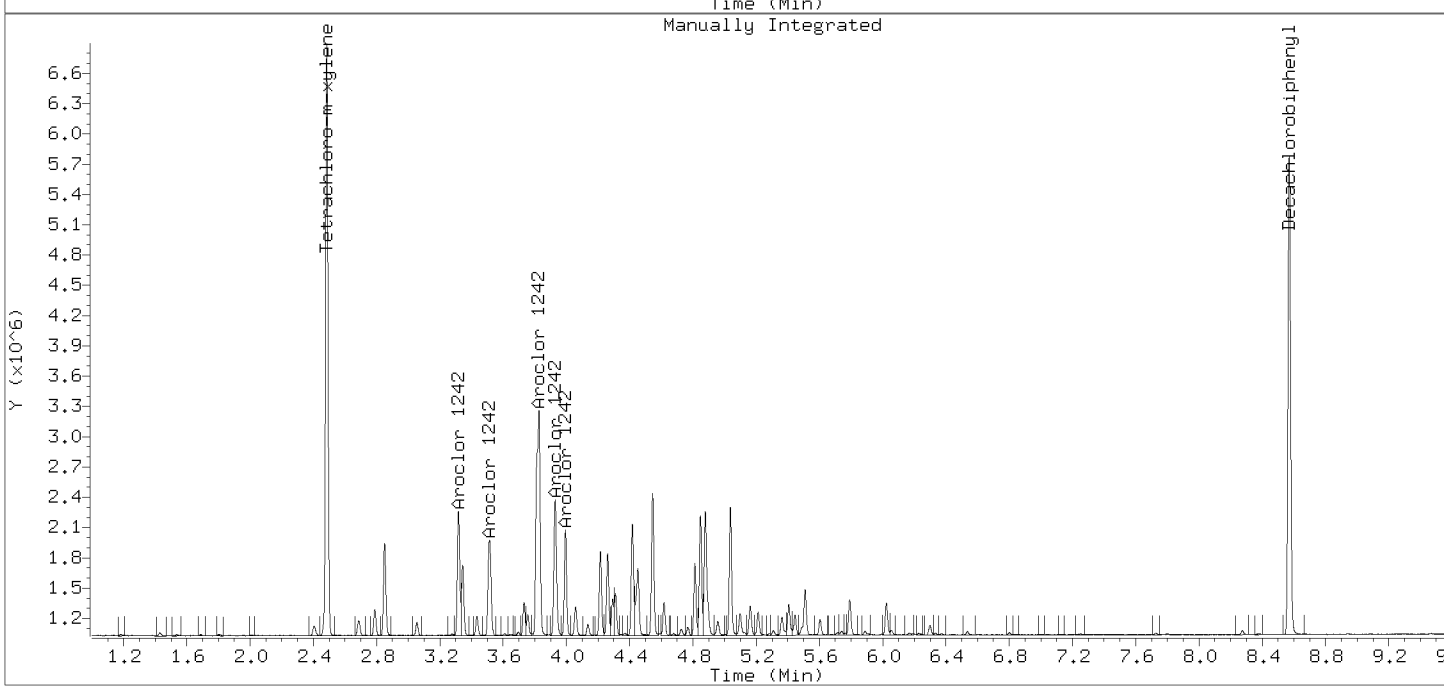
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718056.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 07-MAR-2018 20:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1318188	1325172	BA
Aroclor 1242	1318188	1325172	BA
Aroclor 1242	1318188	1325172	BA
Aroclor 1242	1318188	1325172	BA
Aroclor 1242	1318188	1325172	BA
Tetrachloro-m-xylene	6106357	6106357	
Decachlorobiphenyl	5512747	5512747	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718068.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 07-MAR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 68 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
1.180	18527	13739	0.742	0.04		
1.429	45404	34072	0.750	0.10		
1.536	18414	14591	0.792	0.04		
1.687	19504	17106	0.877	0.04		
2.405	28837	18870	0.654	0.06		
2.484	5975758	5796828	0.970	14.00	$ 2 Tetrachloro-m-xylene	
2.689	36915	28659	0.776	0.08		
2.787	113063	110797	0.980	0.25		
2.850	188901	177434	0.939	0.42		
3.054	56573	54016	0.955	0.12		
3.316	709439	685552	0.966	1.61		
3.343	291322	285173	0.979	0.66		
3.432	68463	61618	0.900	0.15		
3.514	598020	431372	0.721	1.35		
3.608	18144	19040	1.049	0.04		
3.647	9910	8556	0.863	0.02		
3.732	136237	134680	0.989	0.30		
3.756	56373	56042	0.994	0.12		
3.814	1115906	1247493	1.118	2.53		
3.826	1296592	1308829	1.009	2.94		
3.931	907274	712123	0.785	2.05		
3.994	594662	582836	0.980	1.34		
4.058	342381	313900	0.917	0.77		
4.136	144433	129018	0.893	0.32		
4.214	1484213	1426860	0.961	3.36		
4.261	1182531	1157795	0.979	2.68	6 Aroclor 1248	BA
4.292	487508	500014	1.026	1.10		
4.308	518989	500659	0.965	1.17		
4.417	1822242	1676827	0.920	4.13		
4.452	881457	802016	0.910	2.00		
4.545	2078251	1919364	0.924	4.71	6 Aroclor 1248	BA
4.590	25711	28728	1.117	0.05		
4.617	471697	449483	0.953	1.07		
4.678	27652	20644	0.747	0.06		
4.727	60439	51825	0.857	0.13		
4.767	110796	106189	0.958	0.25		
4.813	1053491	1032609	0.980	2.39	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	2008775	1930183	0.961	4.56	
4.879	2556700	1757522	0.687	5.80	6 Aroclor 1248
4.956	282740	247023	0.874	0.64	
5.037	1854398	1741192	0.939	4.20	6 Aroclor 1248
5.099	633652	534816	0.844	1.43	
5.162	764420	707061	0.925	1.73	
5.212	550716	523296	0.950	1.25	
5.283	38897	36264	0.932	0.08	
5.309	118563	107901	0.910	0.26	
5.362	489357	423587	0.866	1.11	
5.406	824471	723961	0.878	1.87	
5.445	496885	458647	0.923	1.12	
5.510	1357101	1152619	0.849	3.08	
5.604	378744	343725	0.908	0.85	
5.676	42233	37906	0.898	0.09	
5.716	77950	63025	0.809	0.17	
5.741	104074	88677	0.852	0.23	
5.762	29305	40449	1.380	0.06	
5.791	932037	827856	0.888	2.11	
5.889	124543	81420	0.654	0.28	
5.995	26600	27545	1.036	0.06	
6.023	813677	743977	0.914	1.84	
6.056	150441	125681	0.835	0.34	
6.166	81751	52952	0.648	0.18	
6.225	52996	28181	0.532	0.12	
6.299	240133	209273	0.871	0.54	
6.333	43231	38496	0.890	0.09	
6.372	35688	29534	0.828	0.08	
6.435	17886	12179	0.681	0.04	
6.510	38064	37685	0.990	0.08	
6.536	77924	70089	0.899	0.17	
6.605	11766	11851	1.007	0.02	
6.718	42790	35255	0.824	0.09	
6.755	21475	17877	0.832	0.04	
6.803	44658	41811	0.936	0.10	
6.838	19999	14474	0.724	0.04	
7.004	74744	67459	0.903	0.16	
7.252	30265	28544	0.943	0.06	
7.391	33524	27610	0.824	0.07	
7.442	36131	30048	0.832	0.08	
7.689	12080	12954	1.072	0.02	
7.728	26138	22044	0.843	0.05	
7.798	17120	13467	0.787	0.03	
7.902	26050	24512	0.941	0.05	
8.274	58323	49553	0.850	0.13	
8.570	5344119	4787203	0.896	12.13	$ 12 Decachlorobiphenyl
9.965	11423	11011	0.964	0.02	
	44050583	40313752		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718068.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 07-MAR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 68 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	5975757	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1182530	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2078250	0.50000	0.50	0.00- 20.00	175.75	BA
4.812	4.812	0.000	1053490	0.50000	0.52	0.00- 20.00	89.09	BA
4.878	4.879	-0.001	2556699	0.50000	0.51	0.00- 20.00	216.21	BA
5.036	5.038	-0.002	1854397	0.50000	0.52	0.00- 20.00	156.82	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5344119	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\030718.b\030718068.D

Date : 07-MAR-2018 22:02

Client ID: 1248-CCV

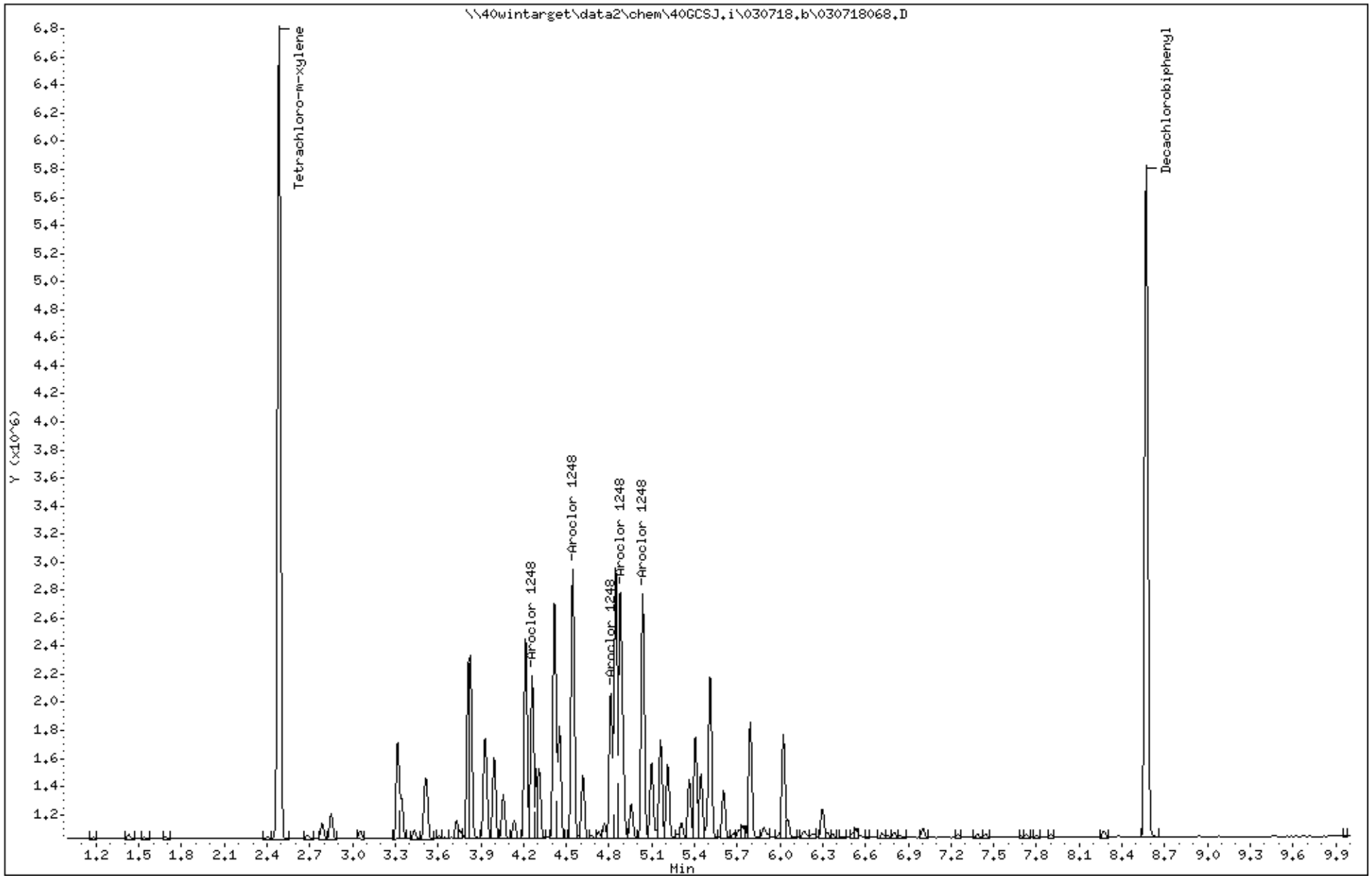
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

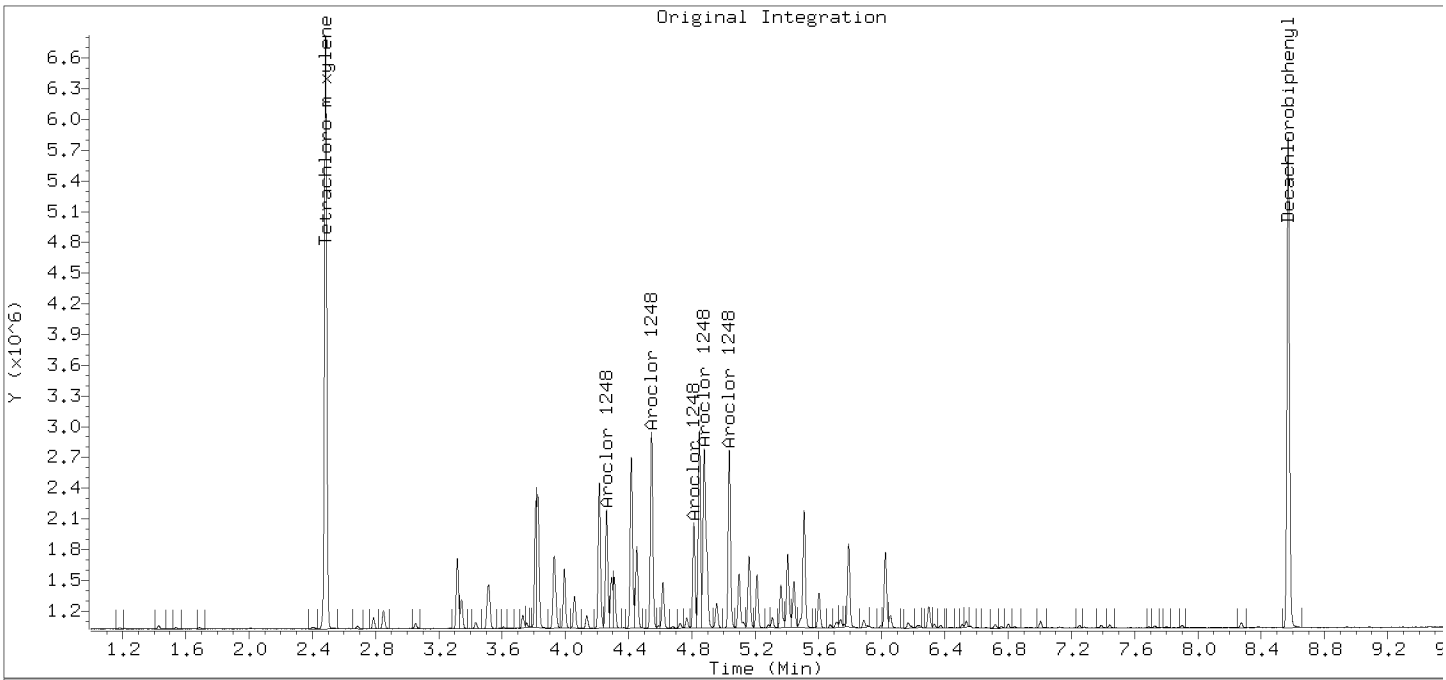
Operator: BLM

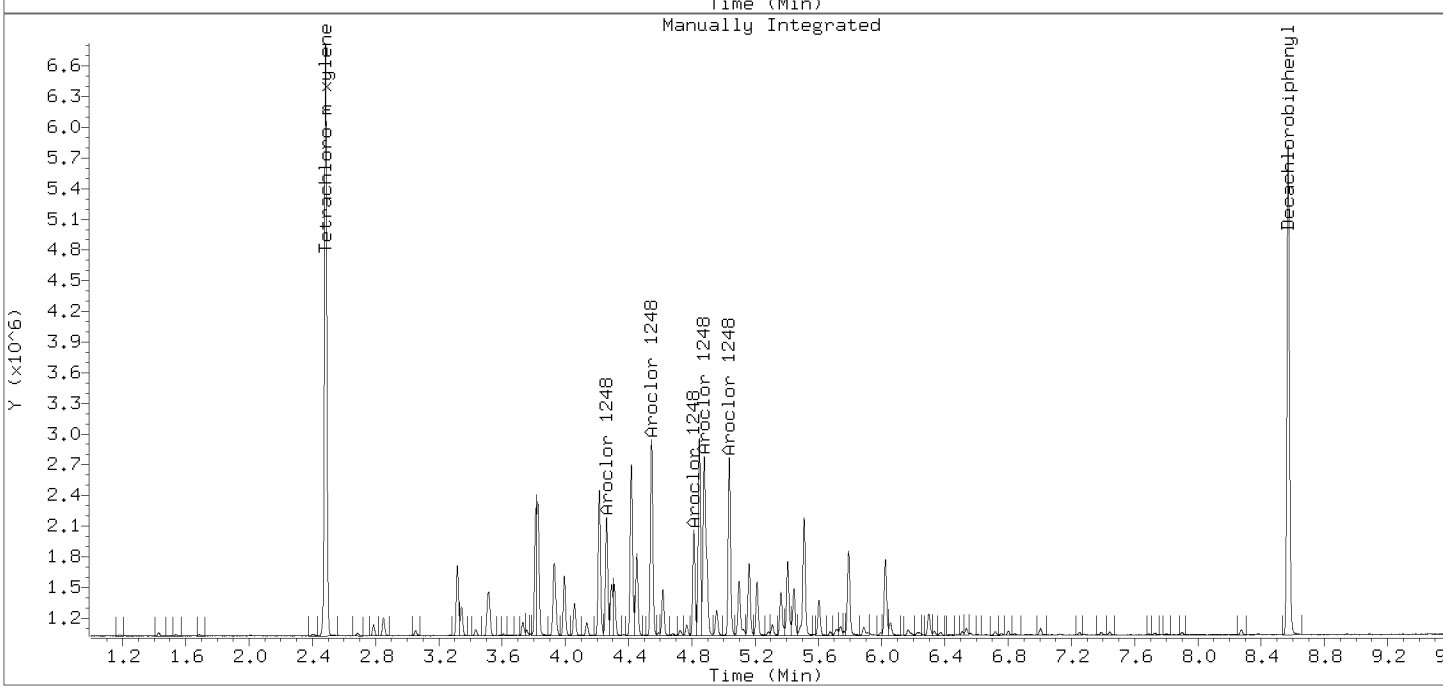
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718068.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 07-MAR-2018 22:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1164122	1182530	BA
Aroclor 1248	1164122	1182530	BA
Aroclor 1248	1164122	1182530	BA
Aroclor 1248	1164122	1182530	BA
Aroclor 1248	1164122	1182530	BA
Tetrachloro-m-xylene	5975757	5975757	
Decachlorobiphenyl	5344119	5344119	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 13-MAR-2018 14:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	27729	26319	0.949	0.08		
1.428	33453	29727	0.889	0.09		
1.538	20488	14619	0.714	0.05		
1.801	11778	11760	0.998	0.03		
2.008	19921	15710	0.789	0.05		
2.405	108223	87198	0.806	0.31		
2.484	5552310	5342617	0.962	16.54	$ 2 Tetrachloro-m-xylene	
2.686	159923	131103	0.820	0.46		
2.788	237799	230665	0.970	0.69		
2.851	817185	785446	0.961	2.37		
3.025	11065	12008	1.085	0.03		
3.054	132892	121653	0.915	0.38		
3.276	18728	15746	0.841	0.05		
3.318	1166799	1106855	0.949	3.39	3 Aroclor 1242	BA
3.344	654278	620865	0.949	1.90		
3.434	184801	173408	0.938	0.53		
3.514	1151778	833455	0.724	3.35	3 Aroclor 1242	BA
3.610	15692	16614	1.059	0.04		
3.649	20511	14959	0.729	0.05		
3.698	31944	32138	1.006	0.09		
3.731	284983	280826	0.985	0.82		
3.755	180299	179544	0.996	0.52		
3.826	3105814	1818355	0.585	9.03	3 Aroclor 1242	BA
3.929	1334709	1124161	0.842	3.88	3 Aroclor 1242	BA
3.994	887509	843140	0.950	2.58	3 Aroclor 1242	BA
4.058	278578	253577	0.910	0.81		
4.137	109261	101496	0.929	0.31		
4.215	774002	740714	0.957	2.25		
4.261	744466	719464	0.966	2.16		
4.292	303869	318652	1.049	0.88		
4.309	381691	354979	0.930	1.11		
4.373	20006	17736	0.887	0.05		
4.418	1024314	997672	0.974	2.97		
4.452	739738	581880	0.787	2.15		
4.546	1301660	1210386	0.930	3.78		
4.589	16687	17909	1.073	0.04		
4.617	302738	279821	0.924	0.88		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	21300	17459	0.820	0.06	
4.727	63095	52304	0.829	0.18	
4.767	71898	67959	0.945	0.20	
4.812	572644	562711	0.983	1.66	
4.848	997508	968292	0.971	2.90	
4.878	1270628	964793	0.759	3.69	
4.958	151973	119495	0.786	0.44	
5.037	1026402	978327	0.953	2.98	
5.098	245668	194112	0.790	0.71	
5.163	278059	248516	0.894	0.80	
5.212	210820	189885	0.901	0.61	
5.284	19653	18711	0.952	0.05	
5.309	49055	39540	0.806	0.14	
5.363	170284	157223	0.923	0.49	
5.407	306212	258824	0.845	0.89	
5.445	187785	168850	0.899	0.54	
5.510	472598	368310	0.779	1.37	
5.604	140444	124847	0.889	0.40	
5.718	35346	26125	0.739	0.10	
5.741	38304	33772	0.882	0.11	
5.792	329358	269604	0.819	0.95	
5.889	51373	30362	0.591	0.14	
6.024	261152	224985	0.862	0.75	
6.056	52368	45070	0.861	0.15	
6.170	25509	17193	0.674	0.07	
6.298	90655	75572	0.834	0.26	
6.335	21148	16461	0.778	0.06	
6.375	12751	11969	0.939	0.03	
6.450	10705	7776	0.726	0.03	
6.537	35492	26941	0.759	0.10	
6.605	11787	7404	0.628	0.03	
6.801	20073	18126	0.903	0.05	
7.126	19729	13103	0.664	0.05	
7.687	9475	7483	0.790	0.02	
7.727	27675	22834	0.825	0.08	
7.802	30004	17582	0.586	0.08	
8.274	45852	37803	0.824	0.13	
8.380	23787	14608	0.614	0.06	
8.571	4646012	3951323	0.850	13.51	$ 12 Decachlorobiphenyl
8.943	19091	10692	0.560	0.05	
9.833	31547	19171	0.608	0.09	
9.851	23300	25620	1.100	0.06	
9.870	30135	28982	0.962	0.08	
9.884	53193	29344	0.552	0.15	
	34379470	29953240		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318004.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 13-MAR-2018 14:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5552309	0.05000	0.045			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1166799	0.50000	0.46	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1151777	0.50000	0.46	0.00- 20.00	98.71	BA
3.826	3.827	-0.001	3105814	0.50000	0.44	0.00- 20.00	266.18	BA
3.928	3.929	-0.001	1334709	0.50000	0.44	0.00- 20.00	114.39	BA
3.993	3.995	-0.002	887509	0.50000	0.43	0.00- 20.00	76.06	BA
Average of Peak Amounts =					0.44600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	4646012	0.05000	0.042			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

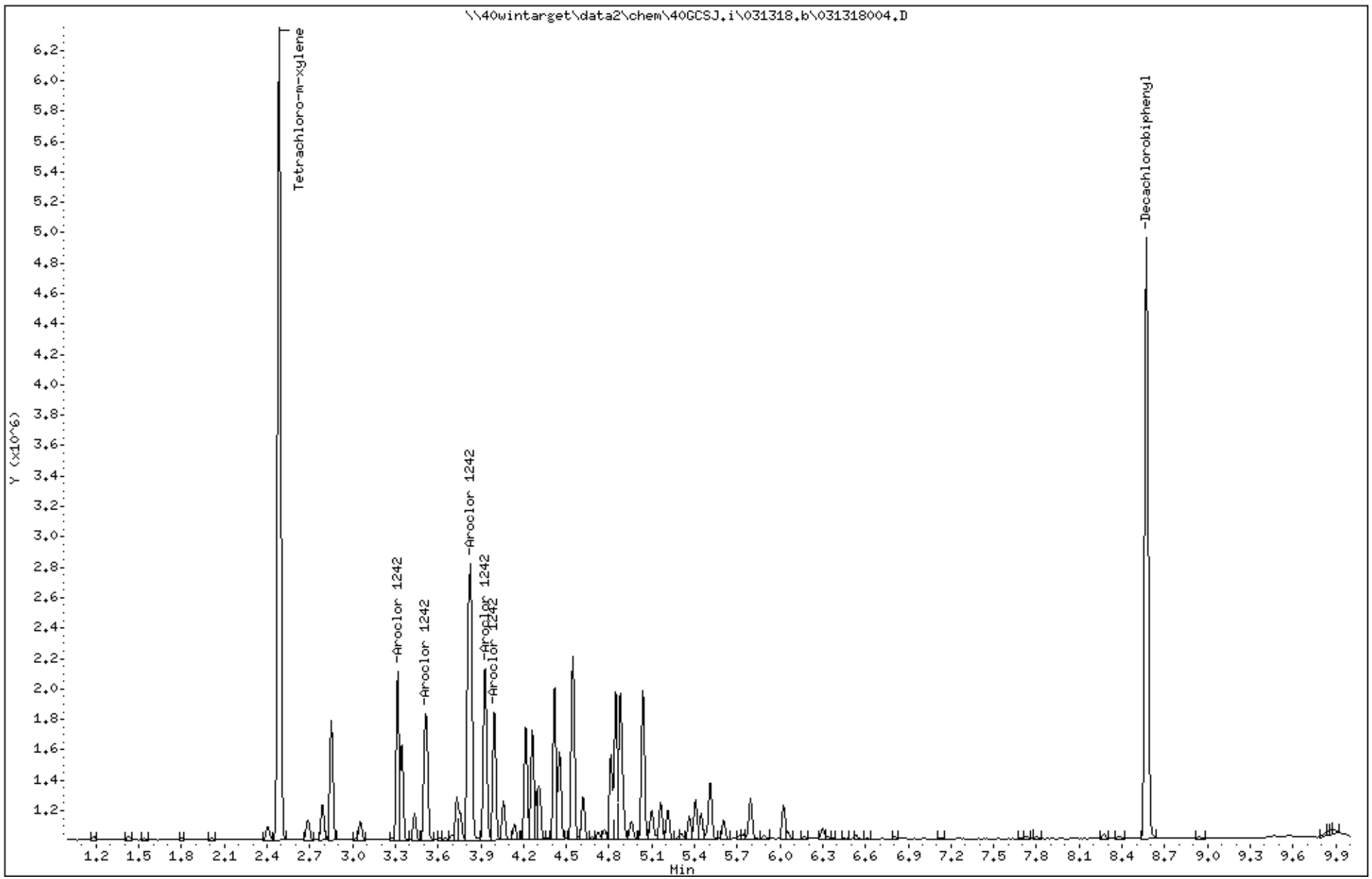
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318004.D
Date : 13-MAR-2018 14:18
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

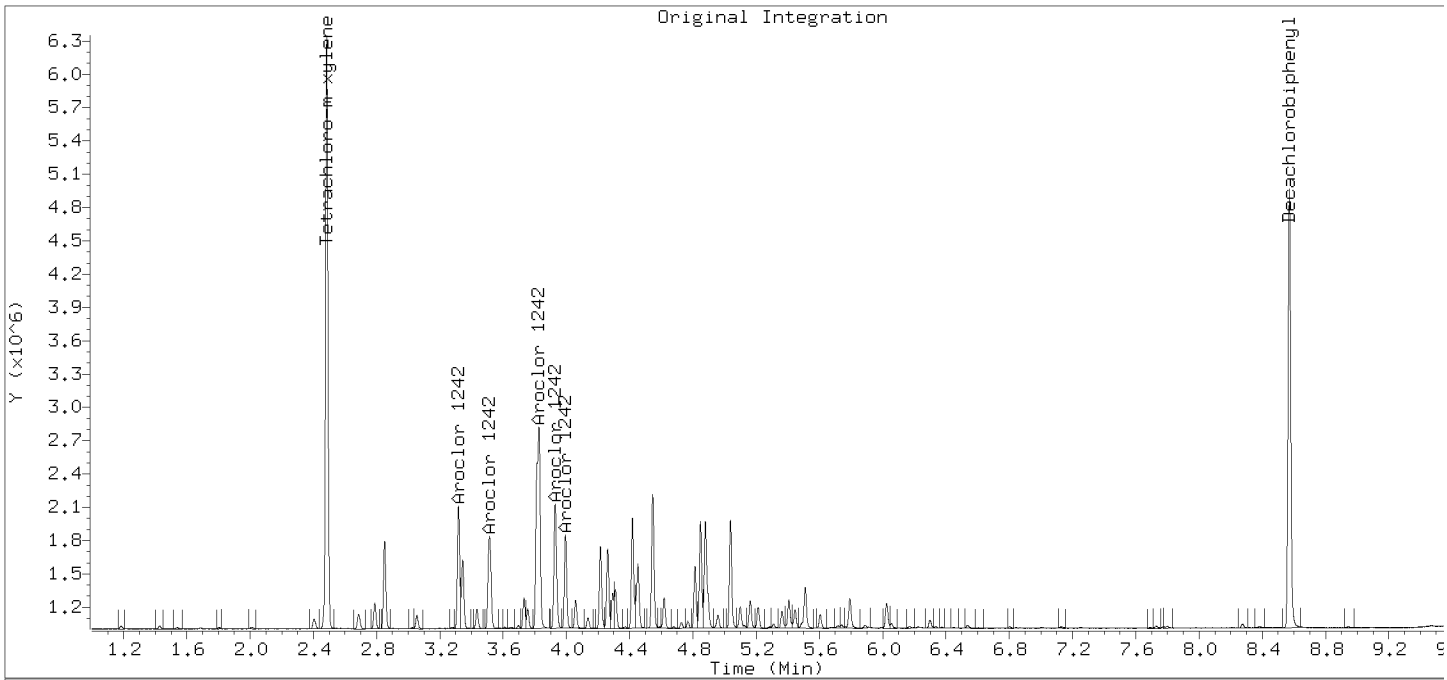
Operator: BLM

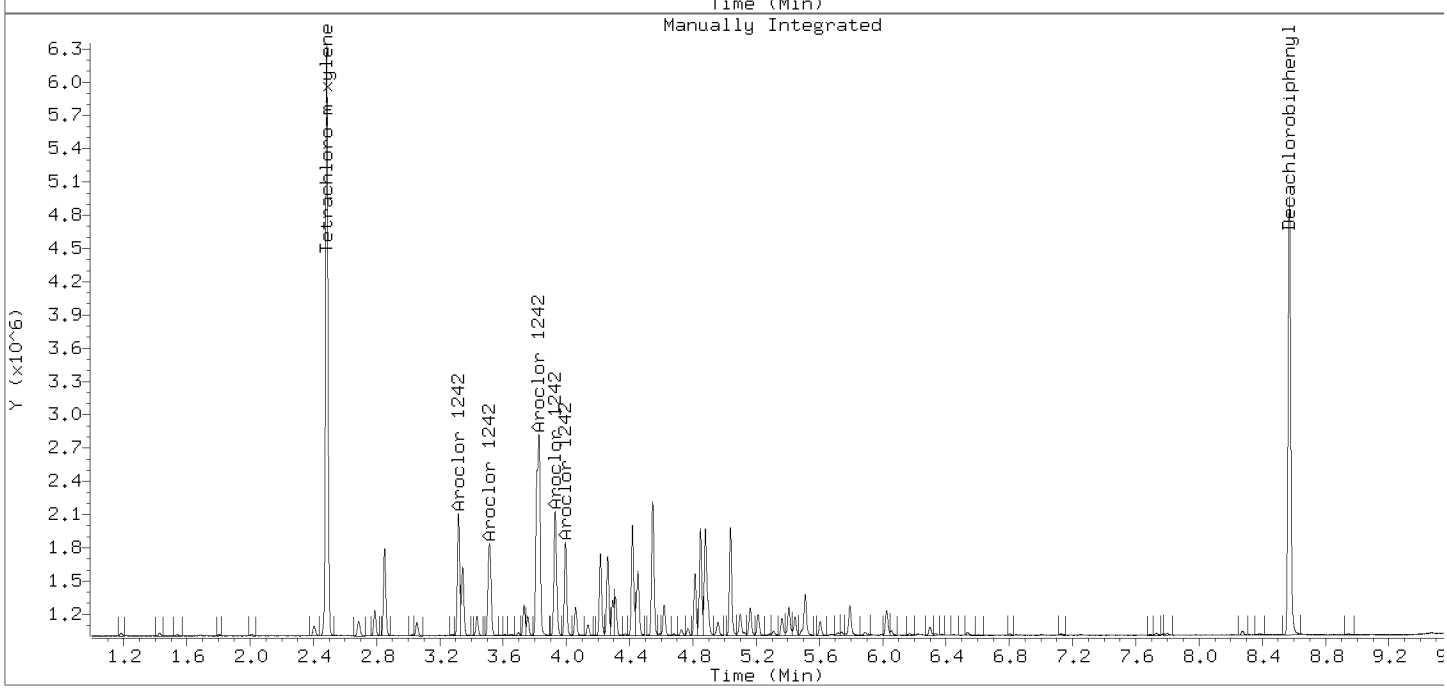
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318004.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 13-MAR-2018 14:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Aroclor 1242	1161730	1166799	BA
Tetrachloro-m-xylene	5552309	5552309	
Decachlorobiphenyl	4646012	4646012	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 13-MAR-2018 17:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	34547	26137	0.757	0.08		
1.430	38532	28426	0.738	0.09		
1.538	17792	14244	0.801	0.04		
1.687	26790	16710	0.624	0.06		
2.012	16736	14881	0.889	0.04		
2.402	25266	16834	0.666	0.06		
2.484	5717515	5404411	0.945	14.26	$ 2 Tetrachloro-m-xylene	
2.688	31911	24623	0.772	0.07		
2.787	108403	101621	0.937	0.26		
2.850	181579	166250	0.916	0.43		
3.029	11468	12149	1.059	0.02		
3.053	56715	51363	0.906	0.13		
3.317	666400	648700	0.973	1.61		
3.343	281689	262357	0.931	0.68		
3.434	63551	57232	0.901	0.15		
3.515	565654	405242	0.716	1.36		
3.610	19845	19312	0.973	0.04		
3.646	11099	6999	0.631	0.02		
3.731	124142	124676	1.004	0.30		
3.754	61967	53224	0.859	0.15		
3.814	994841	1154620	1.161	2.40		
3.825	1233767	1194510	0.968	2.98		
3.930	845064	650154	0.769	2.04		
3.994	559045	538233	0.963	1.35		
4.057	330303	301258	0.912	0.79		
4.136	140355	120359	0.858	0.33		
4.215	1409463	1316932	0.934	3.41		
4.261	1114862	1076234	0.965	2.69	6 Aroclor 1248	BA
4.292	463155	471683	1.018	1.12		
4.309	485188	464077	0.956	1.17		
4.416	1717291	1589511	0.926	4.15		
4.452	836688	731802	0.875	2.02		
4.546	1950169	1837348	0.942	4.72	6 Aroclor 1248	BA
4.591	28359	30347	1.070	0.06		
4.617	447635	419819	0.938	1.08		
4.678	26595	19613	0.737	0.06		
4.728	60694	48703	0.802	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	104450	99117	0.949	0.25	
4.812	961742	956981	0.995	2.32	6 Aroclor 1248
4.847	1854263	1753514	0.946	4.48	
4.878	2375611	1575651	0.663	5.75	6 Aroclor 1248
4.957	277211	232416	0.838	0.67	
5.036	1686235	1578524	0.936	4.08	6 Aroclor 1248
5.098	601218	504142	0.839	1.45	
5.162	718836	651581	0.906	1.74	
5.212	514473	466688	0.907	1.24	
5.283	38226	35590	0.931	0.09	
5.308	114377	97670	0.854	0.27	
5.362	454967	386178	0.849	1.10	
5.406	755181	677323	0.897	1.82	
5.445	463914	420122	0.906	1.12	
5.509	1264136	1067561	0.844	3.06	
5.604	358061	318483	0.889	0.86	
5.674	40456	36539	0.903	0.09	
5.715	81181	61479	0.757	0.19	
5.741	96448	82759	0.858	0.23	
5.763	28052	36234	1.292	0.06	
5.791	850989	716872	0.842	2.06	
5.886	86937	76656	0.882	0.21	
5.910	56059	30482	0.544	0.13	
5.995	26545	26566	1.001	0.06	
6.023	715923	664644	0.928	1.73	
6.055	148446	120732	0.813	0.35	
6.167	76183	49935	0.655	0.18	
6.227	49695	27459	0.553	0.12	
6.298	222047	190922	0.860	0.53	
6.333	42944	36638	0.853	0.10	
6.373	36944	28876	0.782	0.08	
6.508	37862	37090	0.980	0.09	
6.535	87189	61825	0.709	0.21	
6.603	15343	11595	0.756	0.03	
6.718	37237	33179	0.891	0.09	
6.756	19515	17280	0.885	0.04	
6.800	39294	34828	0.886	0.09	
6.841	12660	12553	0.992	0.03	
7.004	64752	61162	0.945	0.15	
7.126	17005	12165	0.715	0.04	
7.252	28814	24913	0.865	0.06	
7.390	29822	24928	0.836	0.07	
7.442	31654	27393	0.865	0.07	
7.694	15473	13759	0.889	0.03	
7.729	24068	21868	0.909	0.05	
7.898	26492	24740	0.934	0.06	
8.273	51775	43579	0.842	0.12	
8.380	19276	13488	0.700	0.04	
8.570	4913033	4227369	0.860	11.89	$ 12 Decachlorobiphenyl
8.941	17085	13032	0.763	0.04	
9.463	11934	9303	0.780	0.02	
	41307112	37154977		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318016.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 13-MAR-2018 17:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5717514	0.05000	0.046			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1114862	0.50000	0.48	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1950169	0.50000	0.47	0.00- 20.00	174.92	BA
4.812	4.812	0.000	961742	0.50000	0.47	0.00- 20.00	86.27	BA
4.877	4.879	-0.002	2375610	0.50000	0.47	0.00- 20.00	213.09	BA
5.036	5.038	-0.002	1686234	0.50000	0.47	0.00- 20.00	151.25	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4913033	0.05000	0.045			

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\031318.b\031318016.D

Date : 13-MAR-2018 17:28

Client ID: 1248-CCV

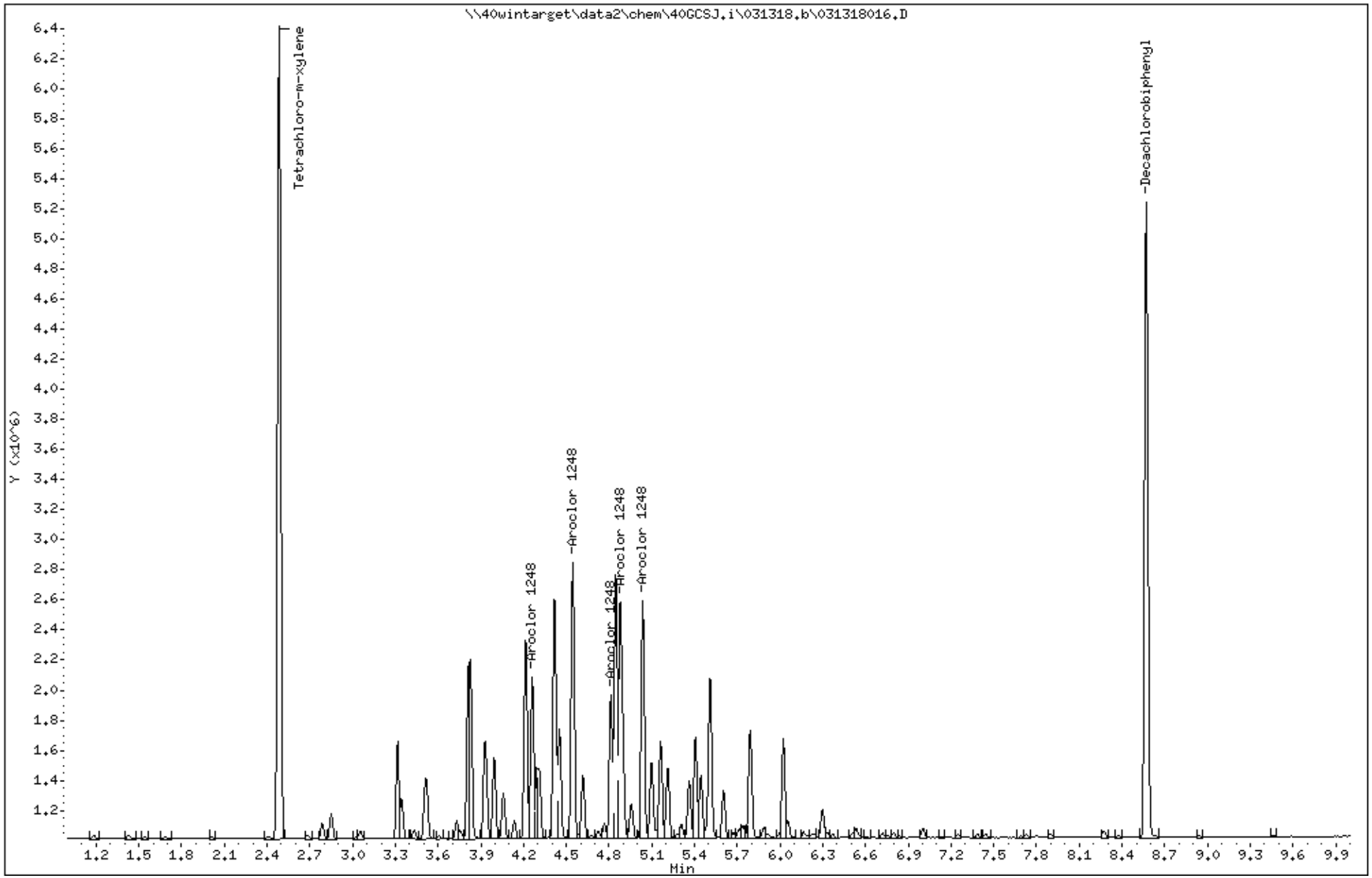
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

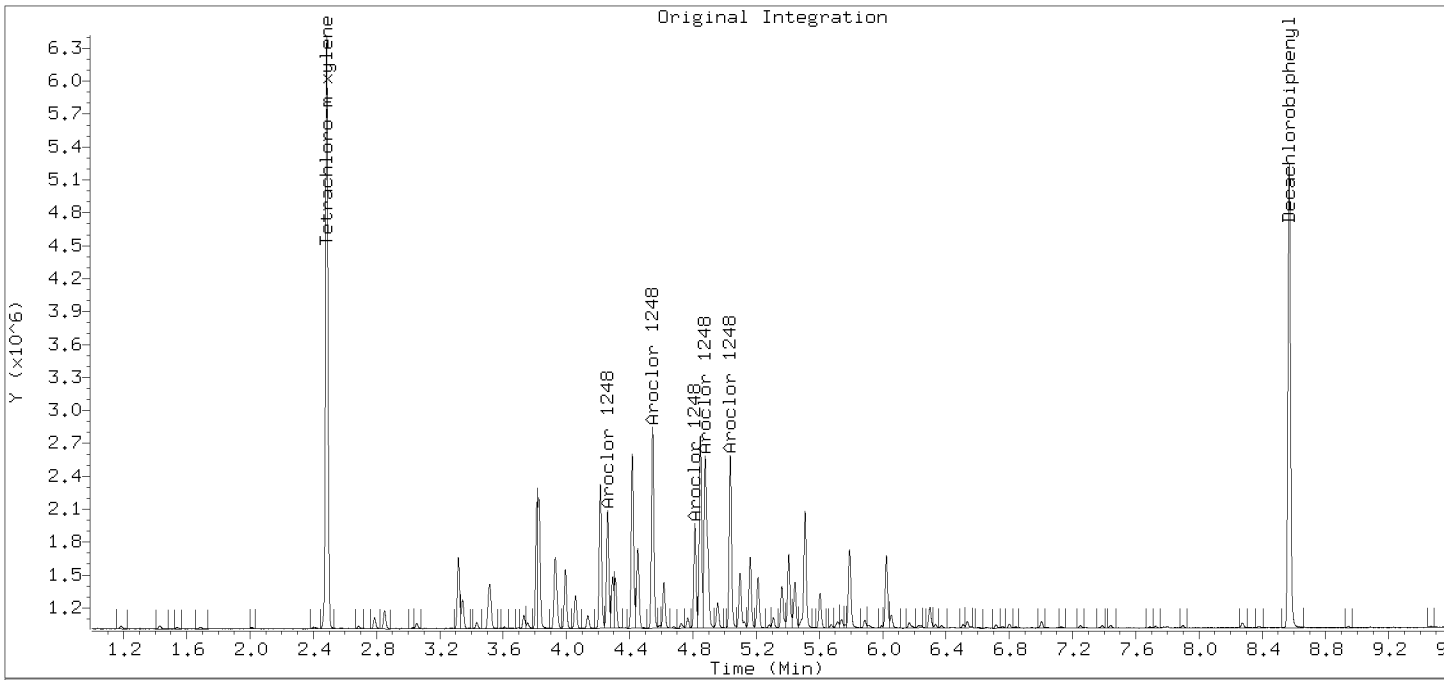
Operator: BLM

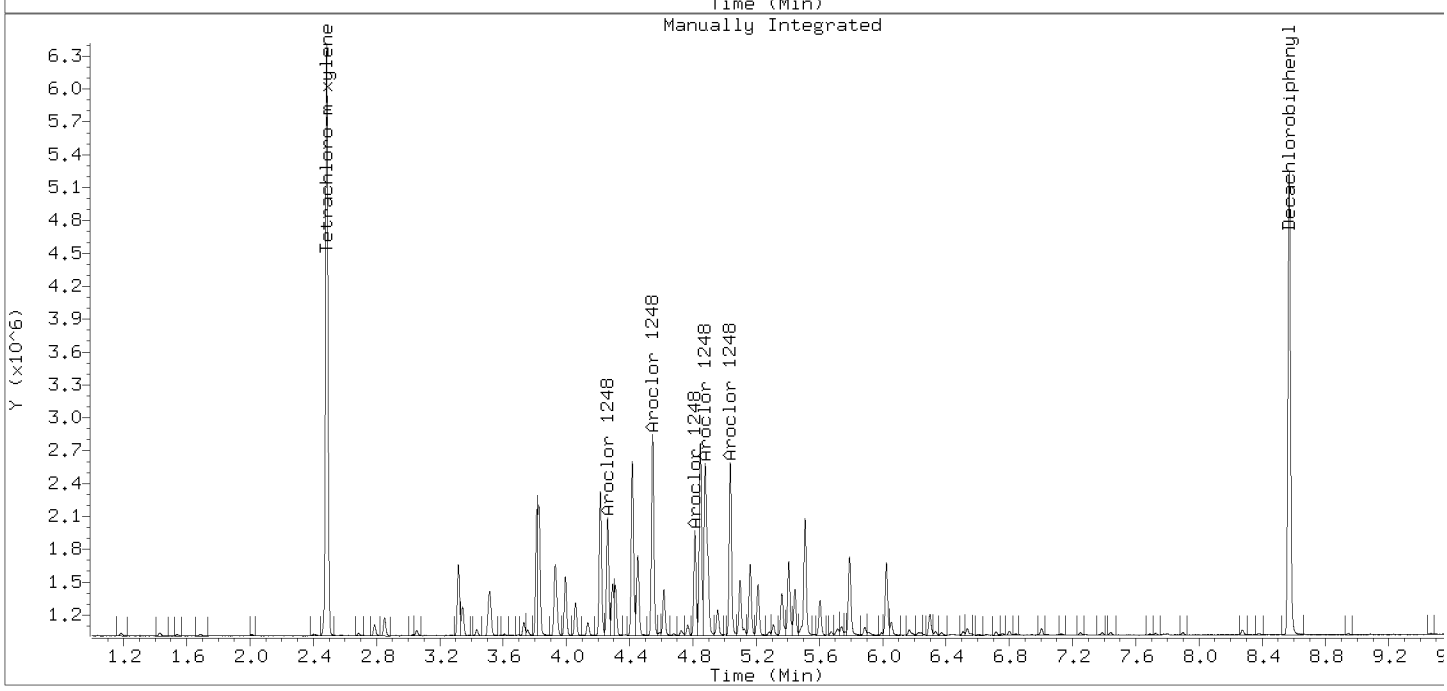
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318016.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 13-MAR-2018 17:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Aroclor 1248	1104511	1114862	BA
Tetrachloro-m-xylene	5717514	5717514	
Decachlorobiphenyl	4913033	4913033	

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received:

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/05/2018 07:12

Lab Sample ID: 1654789

Date Analyzed: 03/07/2018 14:30

Lab File ID: 030718.B\030718012.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\030718.b\030718012.D
Lab Smp Id: 1654789 Client Smp ID: MB
Inj Date : 07-MAR-2018 14:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1654789,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12 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
1.183	50381	40615	0.806	0.26		
1.538	11274	9742	0.864	0.06		
1.687	21762	13638	0.627	0.11		
2.010	31253	23003	0.736	0.16		
2.485	9035726	8793356	0.973	48.11	$ 2 Tetrachloro-m-xylene	
2.789	19733	17344	0.879	0.10		
2.856	14438	11317	0.784	0.07		
3.031	15364	13350	0.869	0.08		
3.993	12296	11686	0.950	0.06		
4.882	10680	10878	1.019	0.05		
5.387	9666	9936	1.028	0.05		
5.703	15100	11084	0.734	0.08		
6.448	10482	10295	0.982	0.05		
7.125	29766	20353	0.684	0.15		
7.685	10676	8112	0.760	0.05		
7.730	49018	43292	0.883	0.26		
7.780	19152	16134	0.842	0.10		
7.801	45648	34437	0.754	0.24		
8.276	75697	68080	0.899	0.40		
8.380	29073	21136	0.727	0.15		
8.573	9174402	7847762	0.855	48.95	$ 12 Decachlorobiphenyl	
8.947	26957	19919	0.739	0.14		
9.472	34707	19776	0.570	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.963	27301	18757	0.687	0.14	
	18780551	17094002		100.000	

Total unknown % area = 2.9

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718012.D
Lab Smp Id: 1654789 Client Smp ID: MB
Inj Date : 07-MAR-2018 14:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1654789,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	9035726	0.07329	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

8.573	8.571	0.002	9174401	0.08374		42		

Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718012.D

Date : 07-MAR-2018 14:30

Client ID: MB

Instrument: 40GCSJ.i

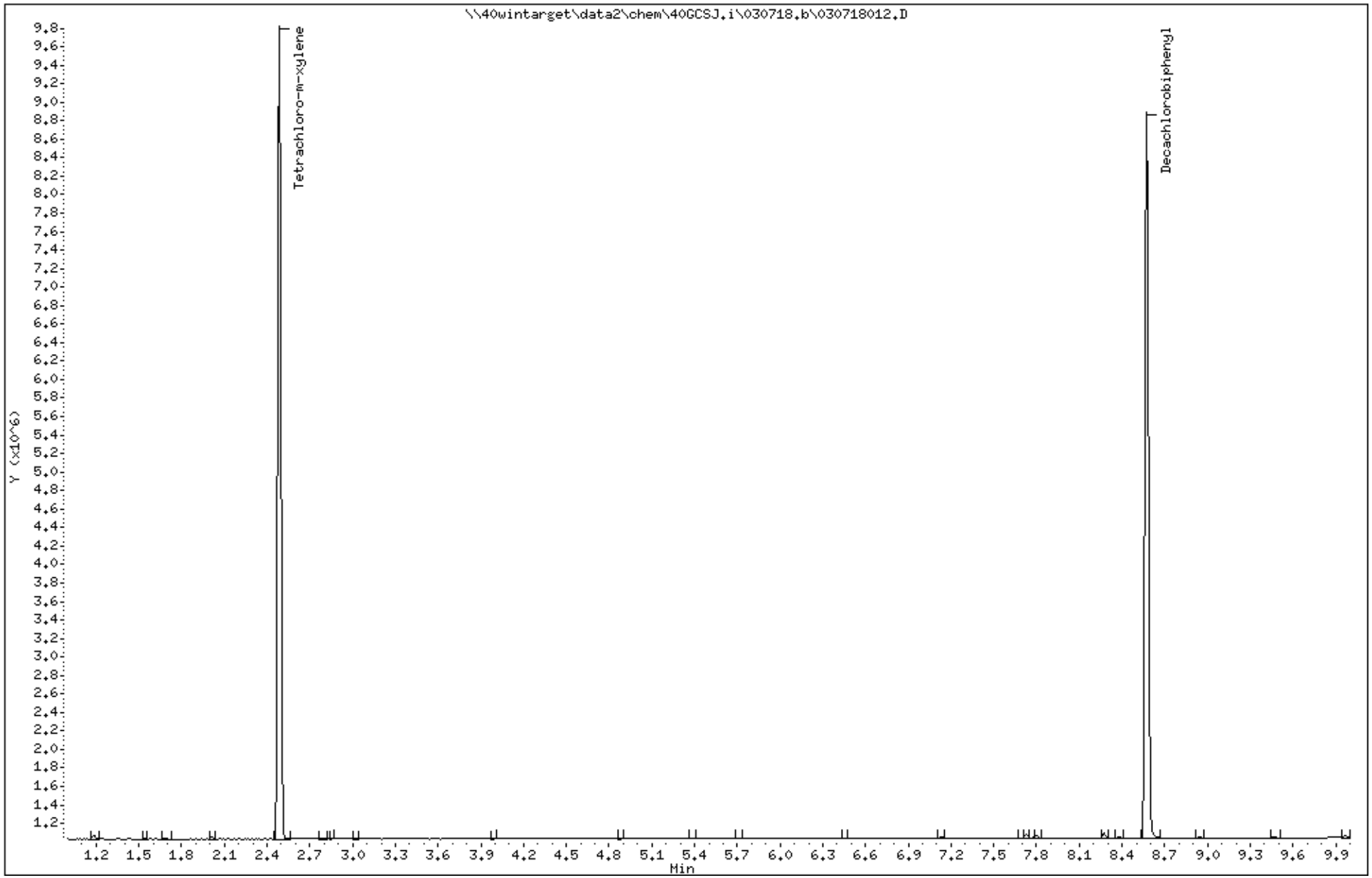
Sample Info: 1654789,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 14:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1654789

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	9035726	9035726	
Decachlorobiphenyl	9174401	9174401	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received:

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/05/2018 07:12

Lab Sample ID: 1654790

Date Analyzed: 03/07/2018 14:46

Lab File ID: 030718.B\030718014.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)	226	
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\030718.b\030718014.D
Lab Smp Id: 1654790 Client Smp ID: MBLCS
Inj Date : 07-MAR-2018 14:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1654790,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	30057	25091	0.835	0.06		
1.802	16970	12575	0.741	0.03		
2.013	18323	13744	0.750	0.04		
2.406	108049	85837	0.794	0.24		
2.486	9635374	9403682	0.976	22.66	$ 2 Tetrachloro-m-xylene	
2.687	161470	133738	0.828	0.37		
2.789	201728	190557	0.945	0.46		
2.852	890969	832458	0.934	2.05		
3.056	125730	109967	0.875	0.29		
3.280	22384	17822	0.796	0.05		
3.319	1156129	1117825	0.967	2.67	3 Aroclor 1242	BA
3.345	651067	622487	0.956	1.50		
3.436	183151	167590	0.915	0.42		
3.514	1136112	812168	0.715	2.62	3 Aroclor 1242	BA
3.649	21921	13840	0.631	0.05		
3.698	31684	30242	0.954	0.07		
3.733	295370	290186	0.982	0.68		
3.757	194200	187812	0.967	0.44		
3.827	3209307	1865492	0.581	7.41	3 Aroclor 1242	BA
3.930	1376636	1162511	0.844	3.18	3 Aroclor 1242	BA
3.995	913548	884295	0.968	2.11	3 Aroclor 1242	BA
4.059	260450	237761	0.913	0.60		
4.137	102209	96931	0.948	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.216	771152	725060	0.940	1.78	
4.262	724533	715067	0.987	1.67	
4.293	290693	311114	1.070	0.67	
4.311	369470	335149	0.907	0.85	
4.369	23090	19216	0.832	0.05	
4.418	1026261	965346	0.941	2.37	
4.453	757236	555338	0.733	1.75	
4.547	1268361	1171348	0.924	2.93	
4.617	306085	268835	0.878	0.70	
4.681	25791	18366	0.712	0.05	
4.729	64243	55473	0.863	0.14	
4.768	70433	63537	0.902	0.16	
4.814	576532	558120	0.968	1.33	
4.848	1029078	977555	0.950	2.37	
4.879	1297903	974336	0.751	3.00	
4.959	147336	114273	0.776	0.34	
5.038	1068793	981282	0.918	2.47	
5.100	224248	175743	0.784	0.51	
5.163	263552	234331	0.889	0.60	
5.213	186248	165866	0.891	0.43	
5.283	18108	15642	0.864	0.04	
5.309	45217	38832	0.859	0.10	
5.363	171302	143130	0.836	0.39	
5.407	274068	229940	0.839	0.63	
5.448	170618	148339	0.869	0.39	
5.512	439473	341100	0.776	1.01	
5.605	135493	116214	0.858	0.31	
5.718	30909	24418	0.790	0.07	
5.740	37491	30782	0.821	0.08	
5.794	280134	233640	0.834	0.64	
5.889	32900	28016	0.852	0.07	
5.985	13973	11016	0.788	0.03	
6.024	233071	201656	0.865	0.53	
6.057	47936	37540	0.783	0.11	
6.168	21224	15684	0.739	0.04	
6.301	57673	50391	0.874	0.13	
6.335	11041	9331	0.845	0.02	
6.377	16339	10154	0.621	0.03	
6.536	11779	13745	1.167	0.02	
6.716	12318	9595	0.779	0.02	
6.800	12468	10993	0.882	0.02	
6.941	9756	9000	0.923	0.02	
7.008	20765	16778	0.808	0.04	
7.125	30047	19365	0.644	0.06	
7.389	11453	7288	0.636	0.02	
7.686	11705	9964	0.851	0.02	
7.730	52433	44730	0.853	0.12	
7.778	10992	10566	0.961	0.02	
7.800	41513	32158	0.775	0.09	
8.274	84476	70342	0.833	0.19	
8.379	27015	18087	0.670	0.06	
8.573	9563578	8217198	0.859	22.11	$ 12 Decachlorobiphenyl
8.943	20726	14292	0.690	0.04	
9.471	28282	18004	0.637	0.06	
9.964	34207	22722	0.664	0.07	
	43254358	37930618		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718014.D
Lab Smp Id: 1654790 Client Smp ID: MBLCS
Inj Date : 07-MAR-2018 14:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1654790,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	9635373	0.07815	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1156128	0.45639	230	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1136112	0.45083	220	0.00- 20.00	98.27	BA
3.826	3.827	-0.001	3209307	0.45097	220	0.00- 20.00	277.59	BA
3.929	3.929	0.000	1376636	0.45261	230	0.00- 20.00	119.07	BA
3.994	3.995	-0.001	913547	0.44612	220	0.00- 20.00	79.02	BA
Average of Peak Concentrations =					220			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.572	8.571	0.001	9563577	0.08729	44	

QC Flag Legend

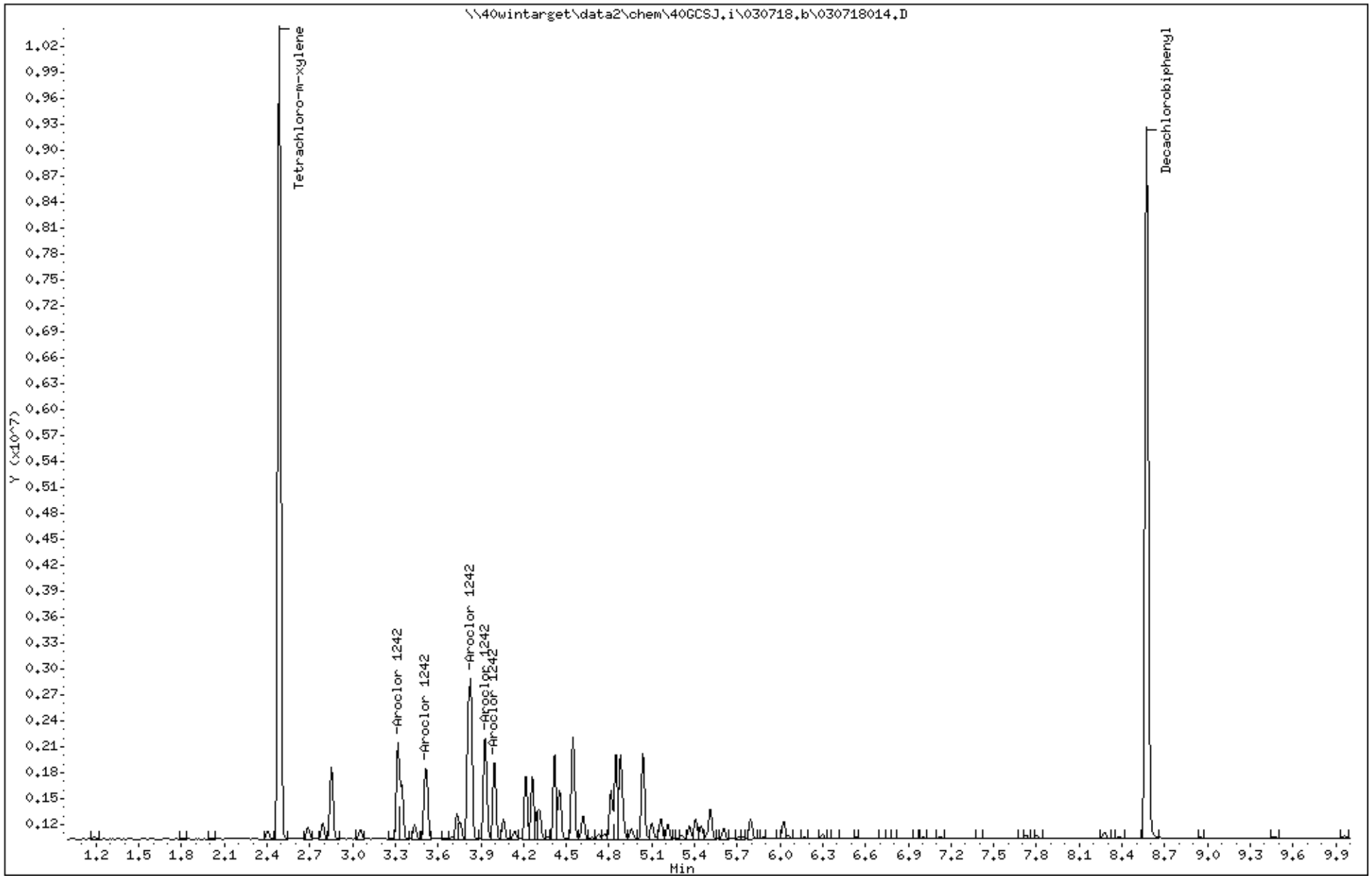
M - Compound response manually integrated.

Review Codes Legend

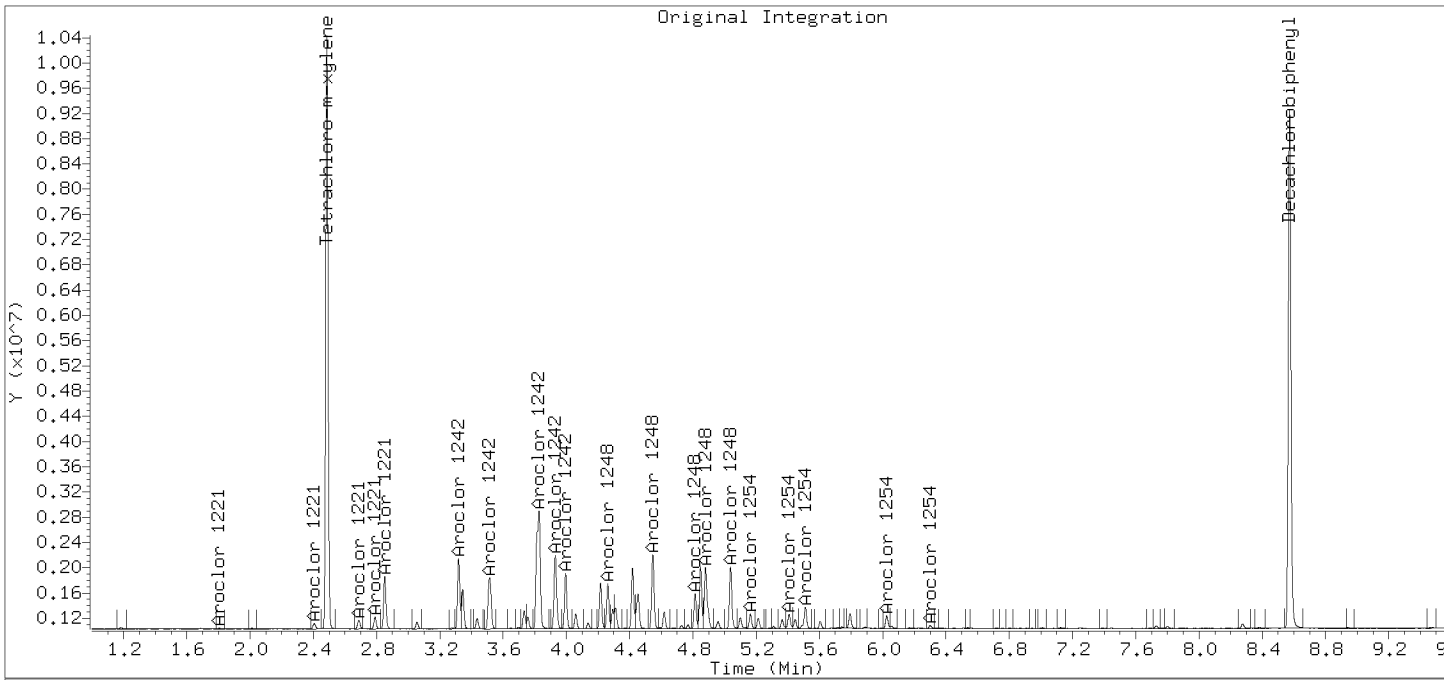
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

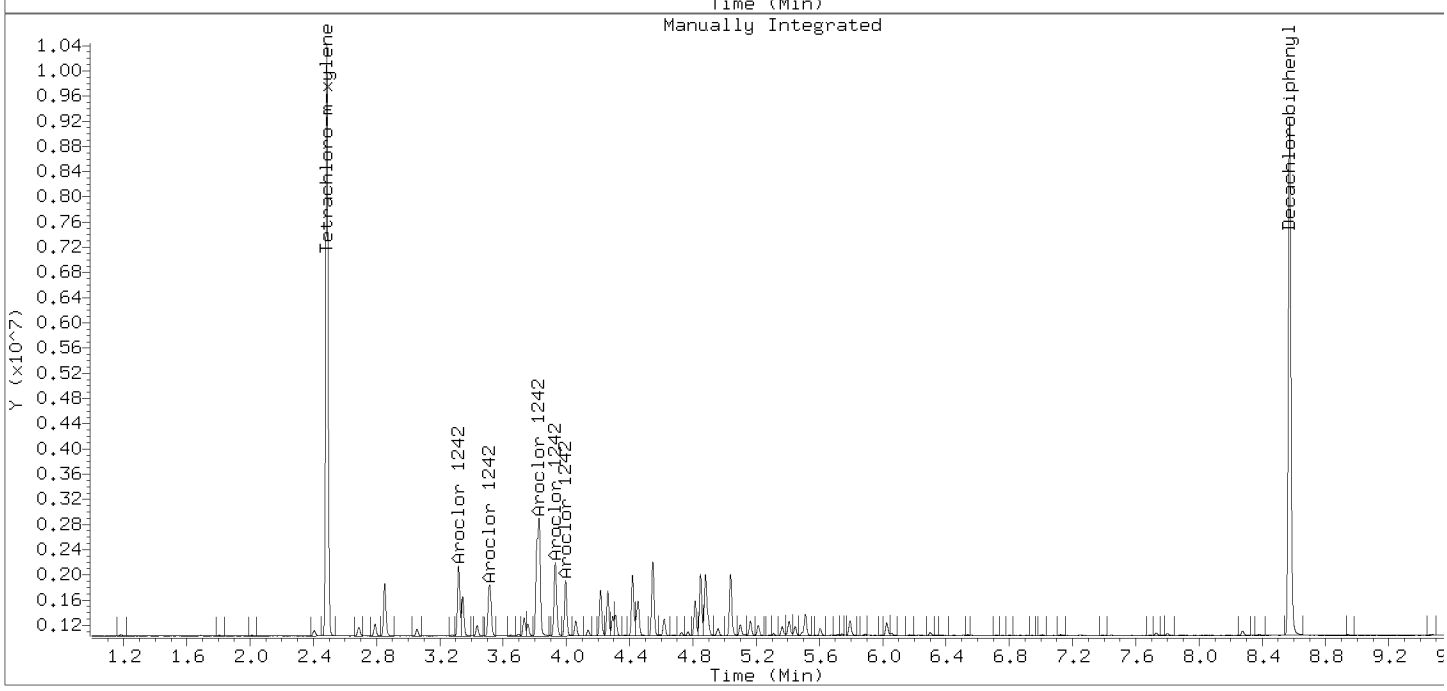
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718014.D
Date : 07-MAR-2018 14:46
Client ID: MBLCS
Sample Info: 1654790,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 14:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1654790





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1149937	0	
Aroclor 1016	1149937	0	
Aroclor 1016	1149937	0	
Aroclor 1016	1149937	0	
Aroclor 1016	1149937	0	
Aroclor 1221	16969	0	
Aroclor 1221	16969	0	
Aroclor 1221	16969	0	
Aroclor 1221	16969	0	
Aroclor 1221	16969	0	
Aroclor 1232	878440	0	
Aroclor 1232	878440	0	
Aroclor 1232	878440	0	
Aroclor 1232	878440	0	

Aroclor 1232	878440	0	
Aroclor 1242	1149937	1156128	BA
Aroclor 1242	1149937	1156128	BA
Aroclor 1242	1149937	1156128	BA
Aroclor 1242	1149937	1156128	BA
Aroclor 1242	1149937	1156128	BA
Aroclor 1248	718499	0	
Aroclor 1248	718499	0	
Aroclor 1248	718499	0	
Aroclor 1248	718499	0	
Aroclor 1248	718499	0	
Aroclor 1254	255815	0	
Aroclor 1254	255815	0	
Aroclor 1254	255815	0	
Aroclor 1254	255815	0	
Aroclor 1254	255815	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9635373	9635373	
Decachlorobiphenyl	9563577	9563577	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received: 05/19/2017 10:05

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/05/2018 07:12

Lab Sample ID: 1654793

Date Analyzed: 03/07/2018 18:48

Lab File ID: 030718.B\030718044.D

Initial wt/vol: 9.9773 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)	23.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	29.0	J
11096-82-5	PCB-1260 (Aroclor 1260)	57.0	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718044.D
Lab Smp Id: 1654793 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1654793,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44 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	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.075	21369	17274	0.808	0.05		
1.106	27038	24524	0.907	0.06		
1.160	11659	14073	1.207	0.02		
1.183	44980	33690	0.749	0.10		
1.427	13276	10959	0.825	0.03		
1.686	15136	12262	0.810	0.03		
1.797	11742	12430	1.059	0.02		
1.949	21507	14229	0.662	0.05		
2.011	28126	17950	0.638	0.06		
2.062	10939	8982	0.821	0.02		
2.128	23562	14666	0.622	0.05		
2.171	18789	21052	1.120	0.04		
2.211	12908	10664	0.826	0.03		
2.294	32772	30513	0.931	0.07		
2.316	27982	30274	1.082	0.06		
2.352	10932	7937	0.726	0.02		
2.409	72009	60372	0.838	0.16		
2.485	11099875	10865002	0.979	26.87	$ 2 Tetrachloro-m-xylene	
2.721	14837	6937	0.468	0.03		
2.786	26623	21641	0.813	0.06		
2.837	13001	18523	1.425	0.03		
2.854	46042	29463	0.640	0.10		
2.974	151733	110849	0.731	0.35		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.021	45112	39876	0.884	0.10	
3.056	42219	33535	0.794	0.09	
3.317	38018	34202	0.900	0.08	3 Aroclor 1242
3.345	40653	35753	0.879	0.09	
3.403	14508	12738	0.878	0.03	
3.432	38846	31002	0.798	0.09	
3.517	54352	42909	0.789	0.12	3 Aroclor 1242
3.732	29750	29874	1.004	0.06	
3.756	18890	15546	0.823	0.04	
3.820	172537	86313	0.500	0.40	3 Aroclor 1242
3.936	67780	37215	0.549	0.15	3 Aroclor 1242
3.994	49759	41209	0.828	0.11	3 Aroclor 1242
4.055	45113	23888	0.530	0.10	
4.138	17049	13837	0.812	0.04	
4.214	178731	156849	0.878	0.42	
4.261	161197	152218	0.944	0.37	6 Aroclor 1248
4.291	122007	91254	0.748	0.28	
4.348	26768	18896	0.706	0.06	
4.418	99743	88030	0.883	0.23	
4.452	65562	53845	0.821	0.15	
4.504	25210	14316	0.568	0.05	
4.545	148738	117383	0.789	0.34	6 Aroclor 1248
4.617	33719	23407	0.694	0.07	
4.685	18260	15039	0.824	0.04	
4.735	42353	33475	0.790	0.09	
4.769	33866	30586	0.903	0.07	
4.813	94450	77605	0.822	0.22	6 Aroclor 1248
4.846	145135	132510	0.913	0.34	
4.895	332756	182660	0.549	0.78	6 Aroclor 1248
4.936	13996	17938	1.282	0.03	
4.957	80417	73530	0.914	0.18	
5.005	27245	22688	0.833	0.06	
5.037	77974	75290	0.966	0.18	6 Aroclor 1248
5.059	94207	72223	0.767	0.22	
5.099	295439	201264	0.681	0.69	
5.161	455838	391333	0.858	1.07	7 Aroclor 1254
5.214	502807	445415	0.886	1.18	
5.253	44633	43768	0.981	0.10	
5.281	75861	61814	0.815	0.17	
5.312	314064	290417	0.925	0.73	
5.362	140632	122582	0.872	0.33	
5.406	154985	133602	0.862	0.36	7 Aroclor 1254
5.451	1466727	1451530	0.990	3.45	
5.481	28539	50759	1.779	0.06	
5.509	417812	335238	0.802	0.98	7 Aroclor 1254
5.578	93504	70355	0.752	0.21	
5.603	95587	65653	0.687	0.22	
5.675	206474	180287	0.873	0.48	
5.708	162269	119288	0.735	0.38	
5.741	173944	126960	0.730	0.40	
5.789	895085	763127	0.853	2.10	
5.822	296330	208912	0.705	0.69	
5.901	189161	129808	0.686	0.44	
5.930	68759	60462	0.879	0.16	
5.966	30867	29571	0.958	0.07	
5.994	398443	362914	0.911	0.93	
6.026	264010	238779	0.904	0.62	7 Aroclor 1254

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.055	1510149	1348216	0.893	3.55	
6.123	32409	25063	0.773	0.07	
6.170	125390	100495	0.801	0.29	
6.183	133578	116095	0.869	0.31	
6.245	230501	134038	0.582	0.54	
6.298	1271876	1062006	0.835	2.99	8 Aroclor 1260
6.332	96692	87854	0.909	0.22	
6.371	37258	28991	0.778	0.08	
6.404	12840	15667	1.220	0.03	
6.432	233122	165942	0.712	0.54	
6.485	35098	38327	1.092	0.08	
6.508	870604	799867	0.919	2.04	
6.536	193182	191578	0.992	0.45	
6.561	297387	257755	0.867	0.69	
6.593	122910	69301	0.564	0.28	
6.663	35470	25090	0.707	0.08	
6.695	21392	24028	1.123	0.05	
6.718	153490	130753	0.852	0.36	
6.758	272329	229936	0.844	0.64	
6.803	186121	171674	0.922	0.43	
6.839	223836	196048	0.876	0.52	
6.887	13962	17045	1.221	0.03	
6.913	95940	94455	0.985	0.22	
6.941	288502	274262	0.951	0.67	
7.004	760817	687050	0.903	1.78	8 Aroclor 1260
7.034	89723	66054	0.736	0.21	
7.076	22848	18004	0.788	0.05	
7.123	24904	19830	0.796	0.05	
7.250	304885	257375	0.844	0.71	8 Aroclor 1260
7.281	102996	73674	0.715	0.24	
7.339	30222	19767	0.654	0.07	
7.389	381211	355881	0.934	0.89	
7.419	44113	60645	1.375	0.10	
7.442	427586	358510	0.838	1.00	8 Aroclor 1260
7.491	91640	66375	0.724	0.21	
7.529	36238	31675	0.874	0.08	
7.559	87808	62460	0.711	0.20	
7.628	58457	35116	0.601	0.13	
7.663	16453	21649	1.316	0.03	
7.692	62467	64005	1.025	0.14	
7.728	354104	311984	0.881	0.83	
7.765	32000	31749	0.992	0.07	
7.801	233810	130839	0.560	0.55	
7.862	41824	29429	0.704	0.09	
7.900	367432	303918	0.827	0.86	8 Aroclor 1260
7.955	62425	34731	0.556	0.14	
8.045	27733	18713	0.675	0.06	
8.102	9797	9502	0.970	0.02	
8.190	27764	18484	0.666	0.06	
8.274	747894	655774	0.877	1.75	
8.378	43725	35131	0.803	0.10	
8.450	16597	14417	0.869	0.03	
8.571	10044827	9060809	0.902	23.63	$ 12 Decachlorobiphenyl
8.704	47450	40245	0.848	0.11	
8.724	92840	78876	0.850	0.21	
8.940	18196	15901	0.874	0.04	
8.993	14934	14858	0.995	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.051	10499	11648	1.109	0.02	
9.171	44830	36453	0.813	0.10	
9.229	13560	8464	0.624	0.03	
9.285	13906	10455	0.752	0.03	
9.334	11935	12515	1.049	0.02	
9.404	9624	9952	1.034	0.02	
9.464	41254	24547	0.595	0.09	
9.543	16091	12821	0.797	0.03	
9.698	27297	20164	0.739	0.06	
9.734	42067	33078	0.786	0.09	
9.963	30152	15366	0.510	0.07	
	42506496	38009122		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718044.D
Lab Smp Id: 1654793 Client Smp ID: CS1-170518-01-STB-1
Inj Date : 07-MAR-2018 18:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1654793,
Misc Info : 17504,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030718.b\pcba030618.m
Meth Date : 22-Mar-2018 14:04 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44 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	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11099874	0.09003	45			
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	161196	0.06880	34	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	148737	0.03584	18	0.00- 20.00	92.27	BA
4.813	4.812	0.001	94450	0.04653	23	0.00- 20.00	58.59	BA
4.894	4.879	0.015	332755	0.06606	33	0.00- 20.00	206.43	BA
5.036	5.038	-0.002	77974	0.02173	11	0.00- 20.00	48.37	BA
Average of Peak Concentrations =					24			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	455837	0.08707	44	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	154984	0.03603	18	0.00- 20.00	34.00	CO
5.508	5.510	-0.002	417812	0.05380	27	0.00- 20.00	91.66	CO
6.026	6.027	-0.001	264010	0.05422	27	0.00- 20.00	57.92	CO
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					29			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	1271875	0.14351	72	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	760817	0.07597	38	0.00- 20.00	59.82	BA
7.249	7.251	-0.002	304884	0.06379	32	0.00- 20.00	23.97	BA
7.441	7.443	-0.002	427586	0.14668	74	0.00- 20.00	33.62	BA
7.900	7.901	-0.001	367431	0.13925	70	0.00- 20.00	28.89	BA
Average of Peak Concentrations =					57			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10044827	0.09168	46			

QC Flag Legend

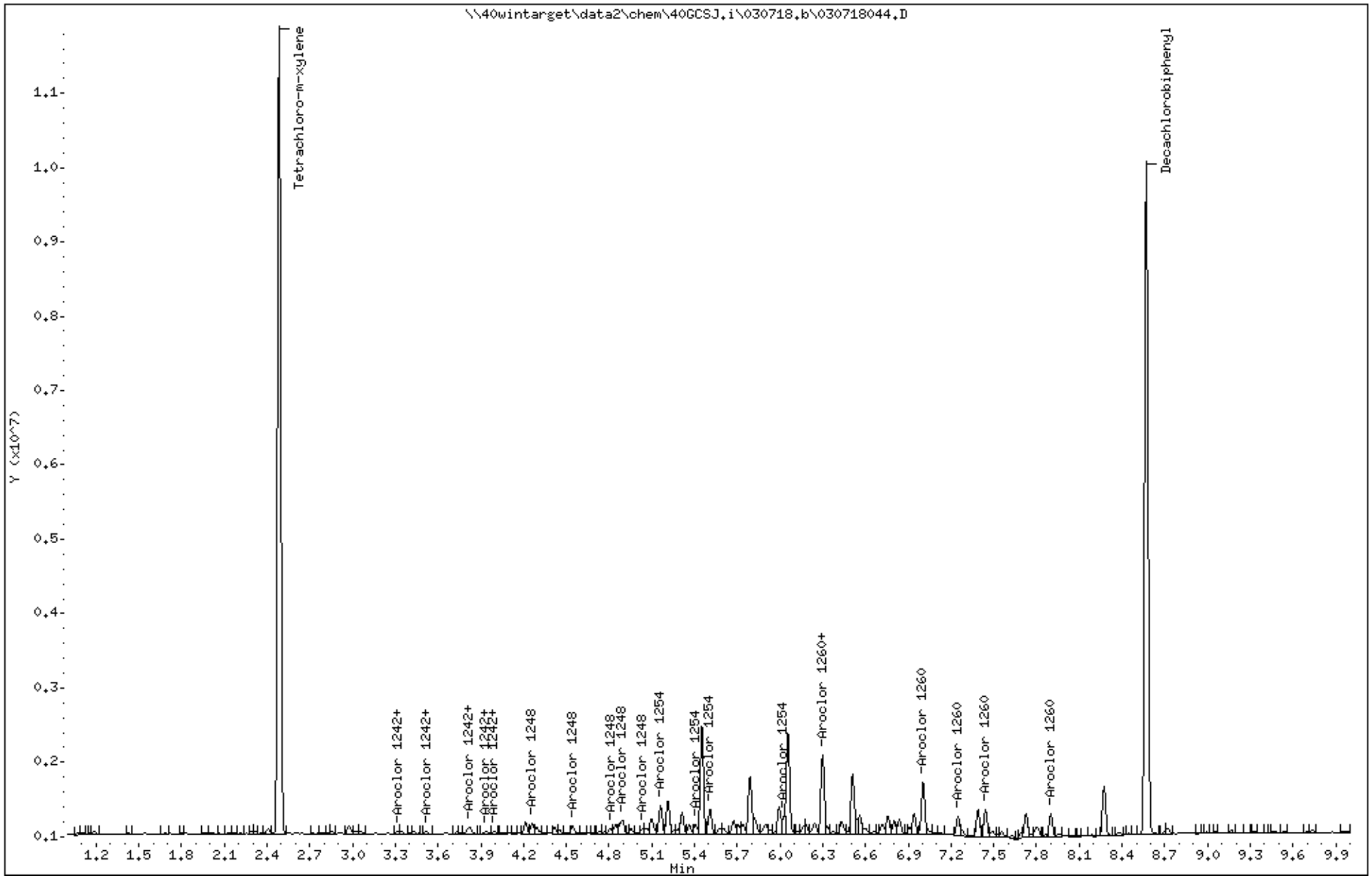
M - Compound response manually integrated.

Review Codes Legend

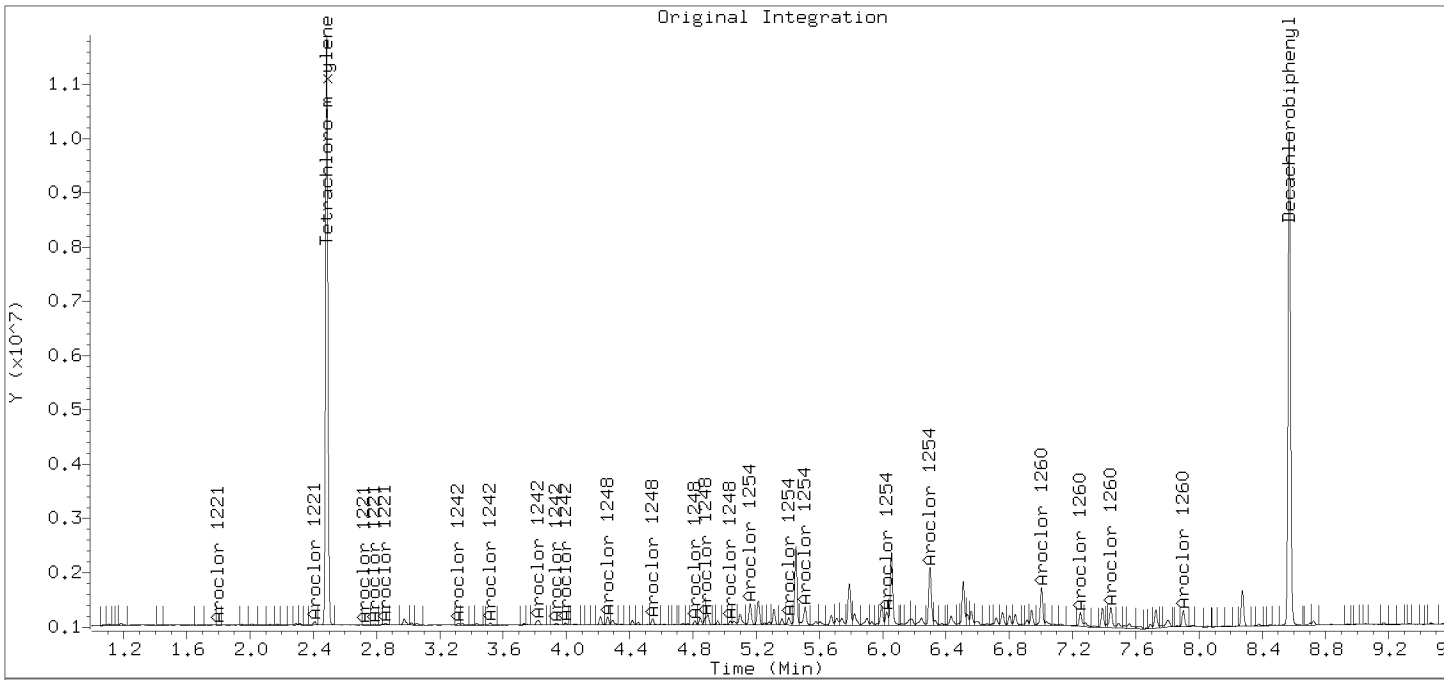
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

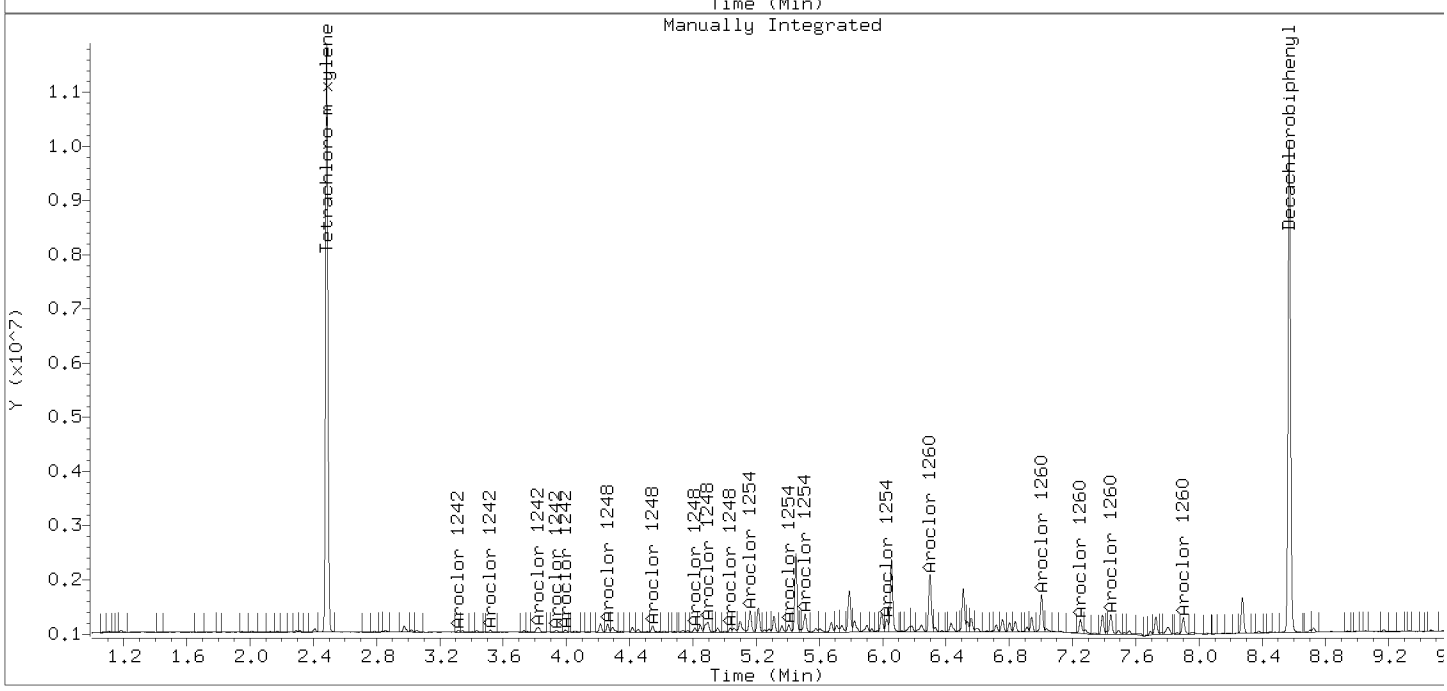
Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b\030718044.D
Date : 07-MAR-2018 18:48
Client ID: CS1-170518-01-STB-1
Sample Info: 1654793,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030718.b/030718044.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 18:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1654793





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	11742	0	
Aroclor 1221	11742	0	
Aroclor 1221	11742	0	
Aroclor 1221	11742	0	
Aroclor 1221	11742	0	
Aroclor 1232	46042	0	
Aroclor 1232	46042	0	
Aroclor 1232	46042	0	
Aroclor 1232	46042	0	

Aroclor 1232	46042	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	147047	161196	BA
Aroclor 1248	147047	161196	BA
Aroclor 1248	147047	161196	BA
Aroclor 1248	147047	161196	BA
Aroclor 1248	147047	161196	BA
Aroclor 1254	448841	455837	CO
Aroclor 1254	448841	455837	CO
Aroclor 1254	448841	455837	CO
Aroclor 1254	448841	455837	CO
Aroclor 1254	448841	455837	CO
Aroclor 1260	1285567	1271875	BA
Aroclor 1260	1285567	1271875	BA
Aroclor 1260	1285567	1271875	BA
Aroclor 1260	1285567	1271875	BA
Aroclor 1260	1285567	1271875	BA
Tetrachloro-m-xylene	11099874	11099874	
Decachlorobiphenyl	10044827	10044827	

==========

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received:

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 1655661

Date Analyzed: 03/13/2018 14:50

Lab File ID: 031318.B\031318006.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\031318.b\031318006.D
Lab Smp Id: 1655661 Client Smp ID: MB
Inj Date : 13-MAR-2018 14:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655661,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 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
1.180	14983	13696	0.914	0.08		
1.428	13915	10443	0.750	0.07		
1.540	12689	9107	0.718	0.06		
2.011	11512	8184	0.711	0.06		
2.484	8963759	8758350	0.977	48.60	$ 2 Tetrachloro-m-xylene	
2.785	16109	15841	0.983	0.08		
2.861	20012	15272	0.763	0.10		
6.445	11005	7697	0.699	0.05		
7.123	20596	15757	0.765	0.11		
7.689	10803	11523	1.067	0.05		
7.727	51054	42336	0.829	0.27		
7.778	9569	9201	0.962	0.05		
7.800	41503	32244	0.777	0.22		
8.275	87389	71886	0.823	0.47		
8.378	19258	14526	0.754	0.10		
8.570	9095946	7799740	0.857	49.41	$ 12 Decachlorobiphenyl	
8.942	16917	10192	0.602	0.09		
9.463	10126	7844	0.775	0.05		
9.964	16090	12348	0.767	0.08		
	18443237	16866187		100.000		

Total unknown % area = 2.0

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318006.D
Lab Smp Id: 1655661 Client Smp ID: MB
Inj Date : 13-MAR-2018 14:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655661,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 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	8963758	0.07270	36			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

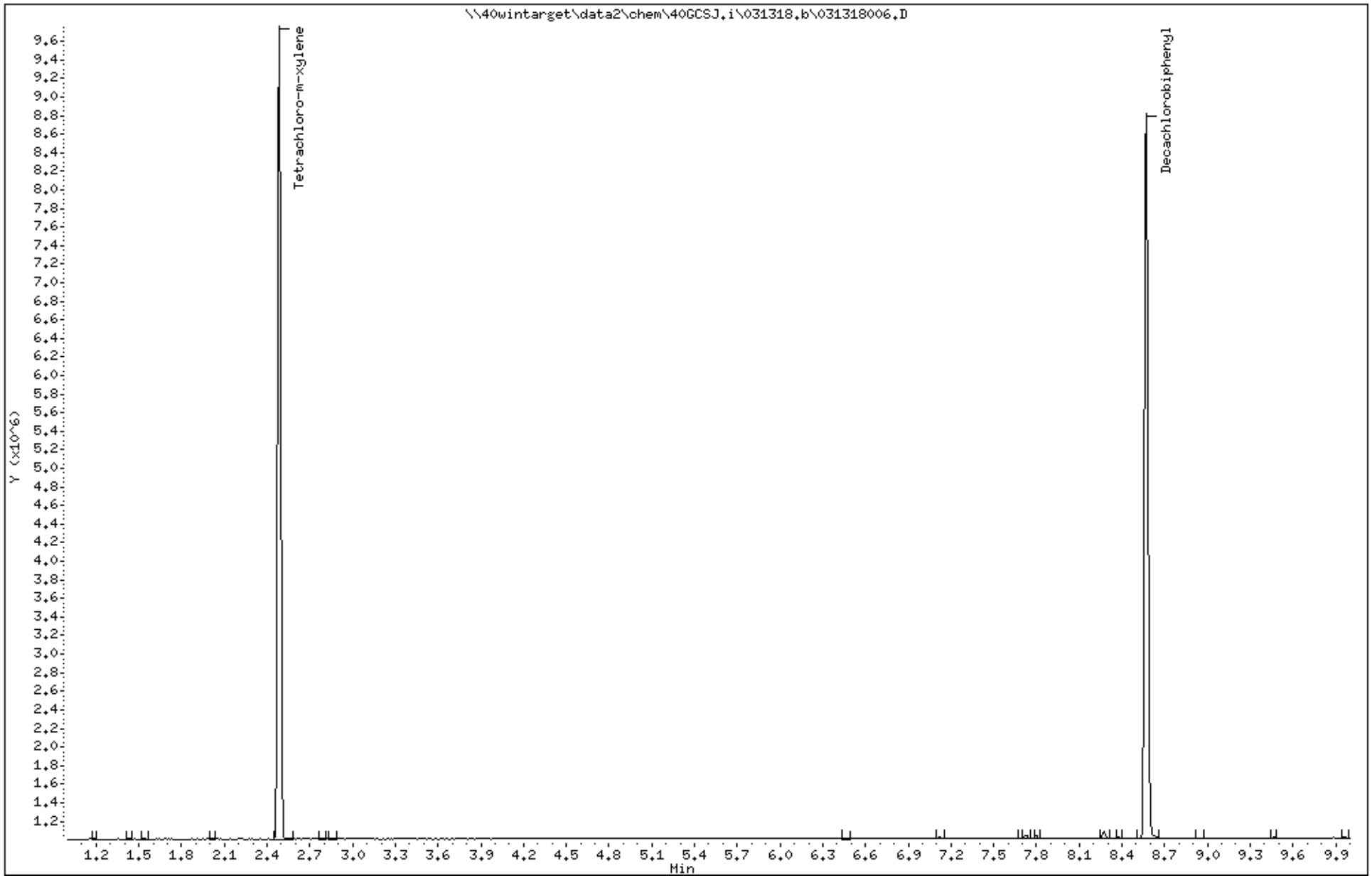
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9095946	0.08302	42			

Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318006.D
Date : 13-MAR-2018 14:50
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1655661,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 14:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655661

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	8963758	8963758	
Decachlorobiphenyl	9095946	9095946	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received:

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 1655662

Date Analyzed: 03/13/2018 15:05

Lab File ID: 031318.B\031318007.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)	212	
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\031318.b\031318007.D
Lab Smp Id: 1655662 Client Smp ID: MBLCS
Inj Date : 13-MAR-2018 15:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655662,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	19401	16917	0.872	0.04		
1.426	12365	11403	0.922	0.03		
1.535	14196	8107	0.571	0.03		
1.805	22348	12680	0.567	0.05		
2.406	108102	82068	0.759	0.27		
2.485	8493218	8075538	0.951	21.27	$ 2 Tetrachloro-m-xylene	
2.687	156314	128161	0.820	0.39		
2.790	183945	177565	0.965	0.46		
2.850	820415	762840	0.930	2.05		
3.054	113141	102677	0.908	0.28		
3.275	21779	14710	0.675	0.05		
3.317	1106729	1033392	0.934	2.77	3 Aroclor 1242	BA
3.343	620375	583365	0.940	1.55		
3.434	177645	159986	0.901	0.44		
3.513	1086406	784656	0.722	2.72	3 Aroclor 1242	BA
3.646	17193	12918	0.751	0.04		
3.694	30109	30818	1.024	0.07		
3.731	280259	275971	0.985	0.70		
3.755	174390	169690	0.973	0.43		
3.826	2990868	1735712	0.580	7.49	3 Aroclor 1242	BA
3.929	1287186	1091790	0.848	3.22	3 Aroclor 1242	BA
3.994	840859	818462	0.973	2.10	3 Aroclor 1242	BA
4.058	248978	228753	0.919	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	101087	89834	0.889	0.25	
4.215	734527	706049	0.961	1.84	
4.261	692196	669619	0.967	1.73	
4.293	284423	292508	1.028	0.71	
4.310	336024	326879	0.973	0.84	
4.369	27879	19257	0.691	0.06	
4.417	973317	924199	0.950	2.43	
4.451	692398	528492	0.763	1.73	
4.545	1197332	1099274	0.918	2.99	
4.617	280846	261679	0.932	0.70	
4.679	22164	17635	0.796	0.05	
4.727	59276	51858	0.875	0.14	
4.769	64675	61097	0.945	0.16	
4.812	528392	515934	0.976	1.32	
4.848	949085	915745	0.965	2.37	
4.878	1193294	906286	0.759	2.98	
4.957	131010	108965	0.832	0.32	
5.037	966431	919835	0.952	2.42	
5.100	217315	161359	0.743	0.54	
5.161	243995	218214	0.894	0.61	
5.213	181001	161325	0.891	0.45	
5.286	16035	14127	0.881	0.04	
5.309	44130	37416	0.848	0.11	
5.362	161681	132524	0.820	0.40	
5.407	259141	221182	0.854	0.64	
5.445	156892	142430	0.908	0.39	
5.509	412088	322351	0.782	1.03	
5.604	118456	108941	0.920	0.29	
5.673	14672	12533	0.854	0.03	
5.715	30106	21614	0.718	0.07	
5.738	40119	26533	0.661	0.10	
5.792	259953	214280	0.824	0.65	
5.890	39989	26208	0.655	0.10	
6.023	242894	192155	0.791	0.60	
6.298	51661	45860	0.888	0.12	
6.535	16238	13492	0.831	0.04	
6.714	13429	10744	0.800	0.03	
6.801	12202	11321	0.928	0.03	
7.003	22046	16804	0.762	0.05	
7.123	24227	13784	0.569	0.06	
7.393	12076	9301	0.770	0.03	
7.686	11849	10184	0.859	0.02	
7.727	44027	38858	0.883	0.11	
7.776	9870	9889	1.002	0.02	
7.800	32693	31016	0.949	0.08	
8.274	82909	74720	0.901	0.20	
8.375	11899	10576	0.889	0.02	
8.570	9013608	8120658	0.901	22.90	$ 12 Decachlorobiphenyl
8.942	20551	11149	0.543	0.05	
9.467	12006	9397	0.783	0.03	
9.963	21447	12323	0.575	0.05	
	39911776	35196592		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318007.D
Lab Smp Id: 1655662 Client Smp ID: MBLCS
Inj Date : 13-MAR-2018 15:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655662,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 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	8493218	0.06889	34			
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	1106729	0.43689	220	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1086405	0.43111	220	0.00- 20.00	98.16	BA
3.825	3.827	-0.002	2990867	0.42027	210	0.00- 20.00	270.24	BA
3.928	3.929	-0.001	1287185	0.42320	210	0.00- 20.00	116.31	BA
3.993	3.995	-0.002	840859	0.41063	200	0.00- 20.00	75.98	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

8.569	8.571	-0.002	9013607	0.08227	41	

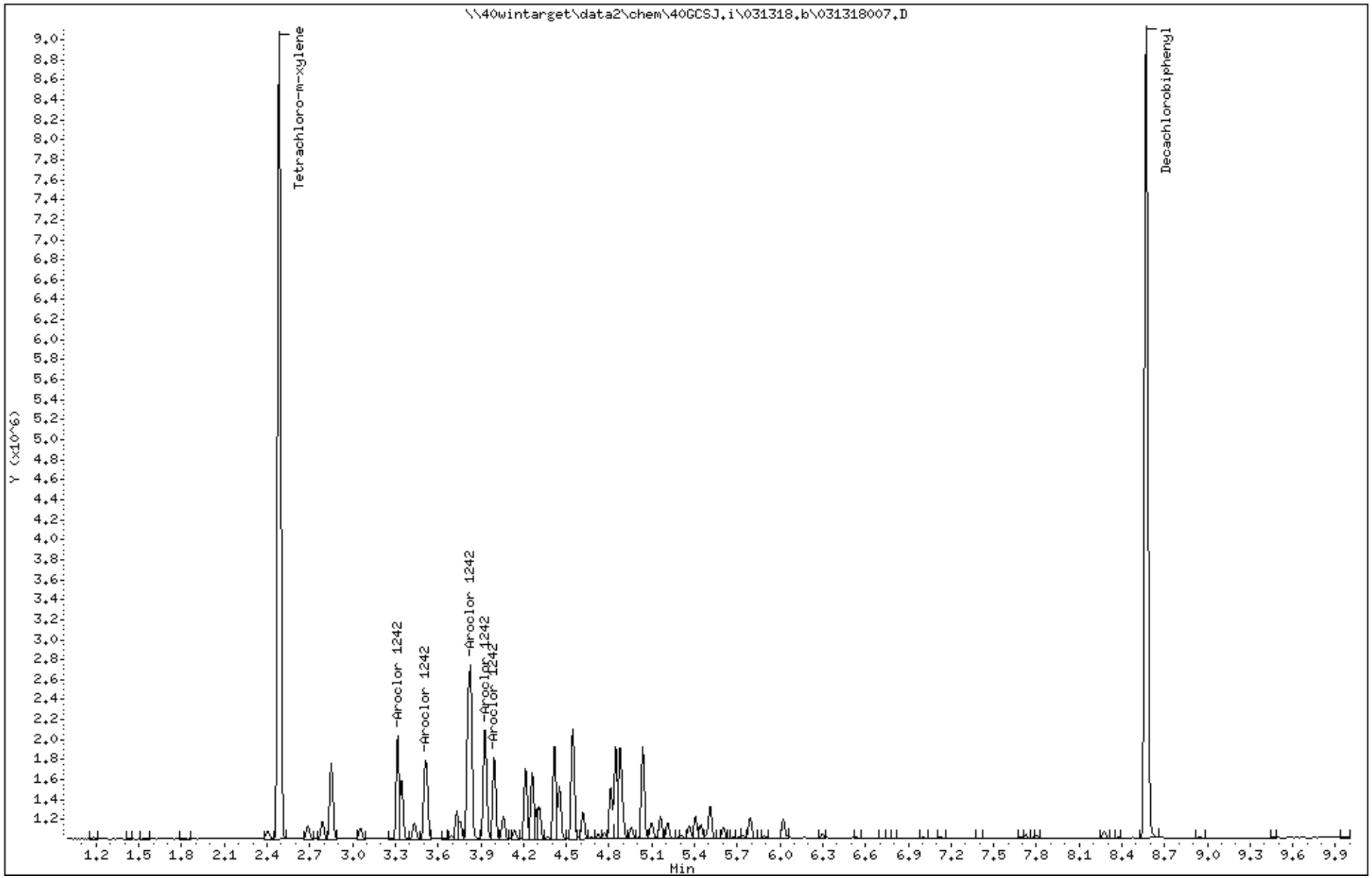
QC Flag Legend

M - Compound response manually integrated.

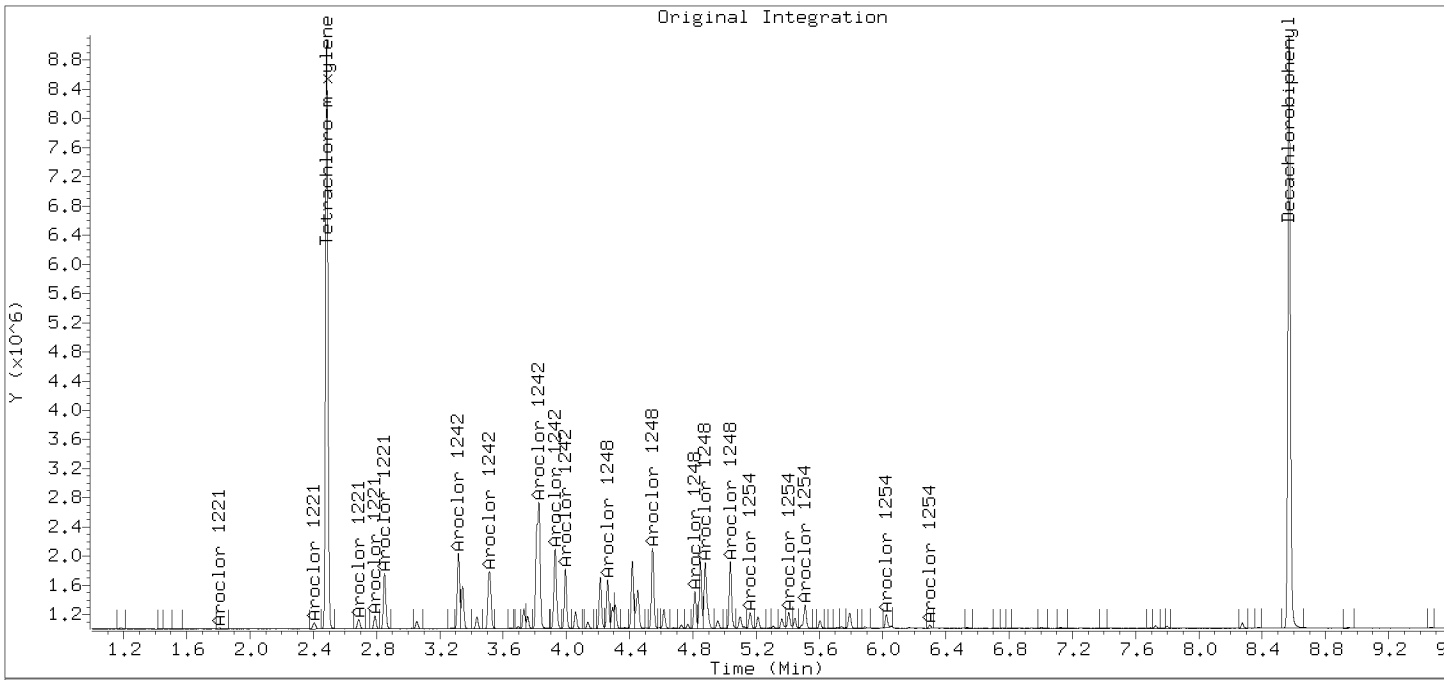
Review Codes Legend

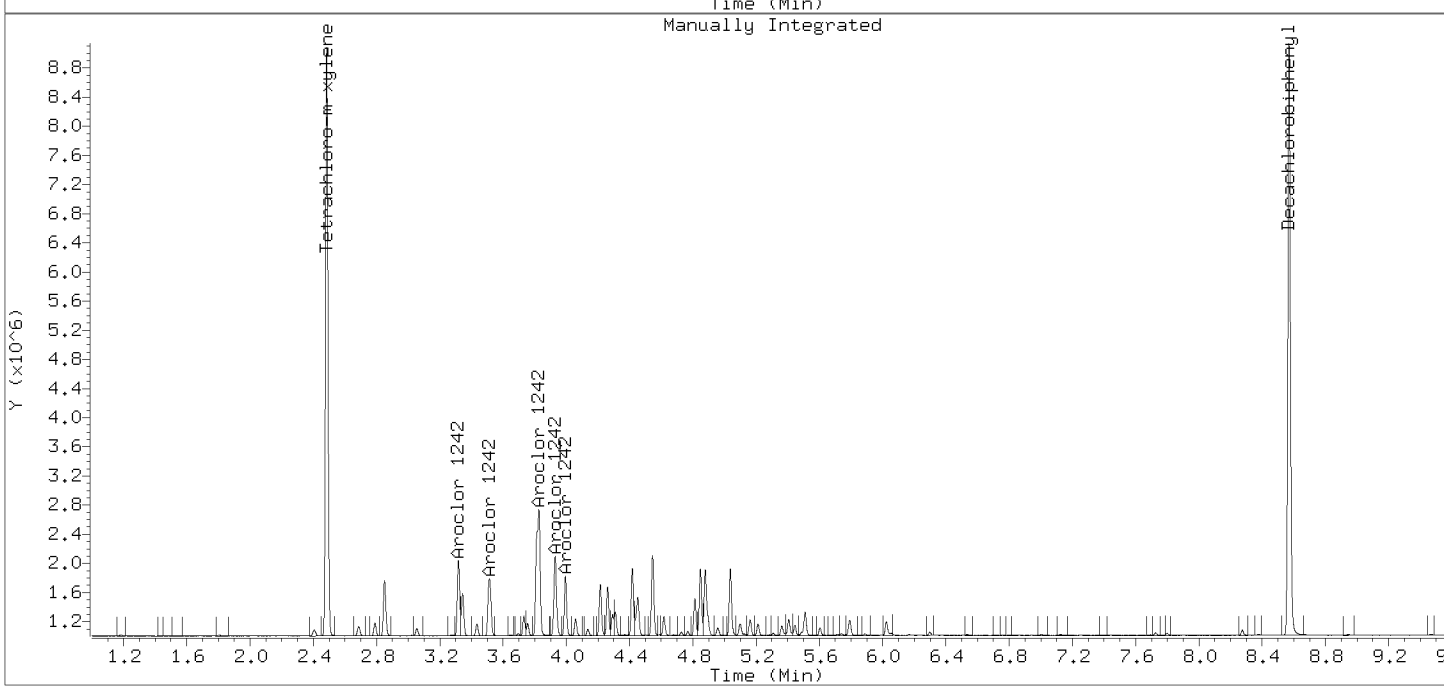
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318007.D
Date : 13-MAR-2018 15:05
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1655662,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 15:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655662





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1016	1101039	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1221	22347	0	
Aroclor 1232	820414	0	
Aroclor 1232	820414	0	
Aroclor 1232	820414	0	
Aroclor 1232	820414	0	

Aroclor 1232	820414	0	
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1242	1101039	1106729	BA
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1248	686690	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1254	235448	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	8493218	8493218	
Decachlorobiphenyl	9013607	9013607	

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTON M
Date Received: 05/19/2017 10:05
Matrix: Tissue SDG No.: 40150295
Date Extracted: 03/12/2018 07:42
Lab Sample ID: 1655663
Date Analyzed: 03/13/2018 15:21
Lab File ID: 031318.B\031318008.D
Initial wt/vol: 10.0094 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	519	
12672-29-6	PCB-1248 (Aroclor 1248)	1220	
11097-69-1	PCB-1254 (Aroclor 1254)	1060	
11096-82-5	PCB-1260 (Aroclor 1260)	517	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318008.D
Lab Smp Id: 1655663 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655663 x5,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: MS
Dil Factor: 5.00000
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	5.000	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
1.156	9215	7025	0.762	0.01		
1.950	26260	19802	0.754	0.02		
2.168	9482	8736	0.921	0.01		
2.317	13981	14350	1.026	0.01		
2.359	14382	13407	0.932	0.01		
2.411	100341	77337	0.771	0.11		
2.484	1974984	1936368	0.980	2.23	$ 2 Tetrachloro-m-xylene	
2.688	41123	30623	0.745	0.04		
2.790	62418	52880	0.847	0.07		
2.850	221540	196919	0.889	0.25		
2.974	107285	70882	0.661	0.12		
3.018	63301	62850	0.993	0.07		
3.055	105654	92973	0.880	0.11		
3.130	11414	10782	0.945	0.01		
3.317	453101	434216	0.958	0.51	3 Aroclor 1242	BA
3.345	358594	329878	0.920	0.40		
3.434	201500	149483	0.742	0.22		
3.518	493533	370995	0.752	0.55	3 Aroclor 1242	BA
3.647	21201	17834	0.841	0.02		
3.731	248305	251733	1.014	0.28		
3.756	173677	168964	0.973	0.19		
3.826	1985109	1169826	0.589	2.24	3 Aroclor 1242	BA
3.933	555458	373300	0.672	0.62	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	413963	388447	0.938	0.46	3 Aroclor 1242
4.059	218390	170450	0.780	0.24	
4.137	74808	70442	0.942	0.08	
4.174	19569	17696	0.904	0.02	
4.215	1678266	1565700	0.933	1.90	
4.261	1770630	1689358	0.954	2.00	6 Aroclor 1248
4.293	1613672	1226526	0.760	1.82	
4.348	78725	69055	0.877	0.08	
4.417	1254074	1189028	0.948	1.42	
4.453	786788	695710	0.884	0.89	
4.545	1622246	1492532	0.920	1.83	6 Aroclor 1248
4.589	70854	71242	1.005	0.08	
4.618	332274	279014	0.840	0.37	
4.655	50531	52316	1.035	0.05	
4.681	120336	102852	0.855	0.13	
4.737	281771	217793	0.773	0.31	
4.768	161922	146484	0.905	0.18	
4.812	896688	857352	0.956	1.01	6 Aroclor 1248
4.848	1206467	1176786	0.975	1.36	
4.880	2952001	1501789	0.509	3.34	6 Aroclor 1248
4.957	786213	645220	0.821	0.89	
5.003	140944	131773	0.935	0.15	
5.037	936596	909408	0.971	1.06	6 Aroclor 1248
5.058	317272	344542	1.086	0.35	
5.099	1509451	1294371	0.858	1.70	
5.117	455446	493489	1.084	0.51	
5.162	2642322	2315905	0.876	2.99	7 Aroclor 1254
5.214	2846605	2461074	0.865	3.22	
5.254	557629	554043	0.994	0.63	
5.283	311990	278005	0.891	0.35	
5.313	1342268	1255115	0.935	1.52	
5.362	847201	813287	0.960	0.95	
5.406	1188518	1098236	0.924	1.34	7 Aroclor 1254
5.451	8632443	8656591	1.003	10.40	
5.477	174008	294166	1.691	0.19	
5.510	2907685	2356065	0.810	3.29	7 Aroclor 1254
5.576	258813	223214	0.862	0.29	
5.604	358001	288177	0.805	0.40	
5.675	974567	918218	0.942	1.10	
5.710	563923	349062	0.619	0.63	
5.742	649049	493683	0.761	0.73	
5.789	4006859	3320636	0.829	4.53	
5.822	1175297	1070629	0.911	1.33	
5.899	806415	553187	0.686	0.91	
5.931	195140	169009	0.866	0.22	
5.964	44058	46392	1.053	0.04	
5.993	1075112	1023700	0.952	1.21	
6.025	1396637	1196927	0.857	1.58	7 Aroclor 1254
6.056	4400692	3916594	0.890	4.98	
6.168	995345	578765	0.581	1.12	
6.228	201169	243130	1.209	0.22	
6.242	477698	351353	0.736	0.54	
6.298	4451259	3772022	0.847	5.04	7 Aroclor 1254
6.333	476401	434040	0.911	0.53	
6.372	133181	114403	0.859	0.15	
6.431	459752	332724	0.724	0.52	
6.483	82789	75942	0.917	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.509	1812722	1668527	0.920	2.05	
6.535	770944	734519	0.953	0.87	
6.560	782549	702274	0.897	0.88	
6.604	177916	163480	0.919	0.20	
6.636	45957	46342	1.008	0.05	
6.660	118517	111896	0.944	0.13	
6.717	477216	428981	0.899	0.54	
6.758	625531	528727	0.845	0.70	
6.801	661575	626514	0.947	0.74	
6.839	316220	273853	0.866	0.35	
6.885	28015	29710	1.061	0.03	
6.912	92512	97744	1.057	0.10	
6.942	1055326	986383	0.935	1.19	
7.004	2191818	2008416	0.916	2.48	8 Aroclor 1260
7.034	215538	142839	0.663	0.24	
7.104	15255	19708	1.292	0.01	
7.120	38787	36480	0.941	0.04	
7.251	897065	797649	0.889	1.01	8 Aroclor 1260
7.280	259802	223715	0.861	0.29	
7.389	620796	513741	0.828	0.70	
7.441	700861	626724	0.894	0.79	8 Aroclor 1260
7.492	100603	78620	0.781	0.11	
7.527	32119	29430	0.916	0.03	
7.554	59713	41477	0.695	0.06	
7.621	88938	67684	0.761	0.10	
7.665	5626	8705	1.547	0.00	
7.690	156032	147667	0.946	0.17	
7.727	229368	205091	0.894	0.25	
7.762	40262	33532	0.833	0.04	
7.812	285601	199416	0.698	0.32	
7.861	43667	36467	0.835	0.04	
7.900	476932	413350	0.867	0.54	8 Aroclor 1260
7.962	76211	44610	0.585	0.08	
8.048	32877	25248	0.768	0.03	
8.197	31558	23750	0.753	0.03	
8.273	480084	413694	0.862	0.54	
8.377	34955	25808	0.738	0.03	
8.570	2267744	1956336	0.863	2.56	$ 12 Decachlorobiphenyl
8.703	20907	27859	1.333	0.02	
8.724	105747	83846	0.793	0.11	
8.837	14021	12591	0.898	0.01	
8.933	9462	5741	0.607	0.01	
9.053	27074	20711	0.765	0.03	
9.169	55476	45696	0.824	0.06	
9.288	31855	27436	0.861	0.03	
9.698	11876	11355	0.956	0.01	
9.734	30956	22235	0.718	0.03	
	88289169	76991409		100.000	

Total unknown % area = 62

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318008.D
Lab Smp Id: 1655663 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655663 x5,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: MS
Dil Factor: 5.00000
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	5.000	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	1974983	0.01602	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	453100	0.17886	450	0.00- 20.00	100.00(RM)	BA
3.517	3.513	0.004	493533	0.19584	490	0.00- 20.00	108.92	BA
3.825	3.827	-0.002	1985108	0.27895	700	0.00- 20.00	438.12	BA
3.932	3.929	0.003	555457	0.18262	460	0.00- 20.00	122.59	BA
3.993	3.995	-0.002	413962	0.20215	500	0.00- 20.00	91.36	BA
Average of Peak Concentrations =					520			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1770630	0.75572	1900	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1622245	0.39087	980	0.00- 20.00	91.62	BA
4.812	4.812	0.000	896688	0.44170	1100	0.00- 20.00	50.64	BA
4.879	4.879	0.000	2952000	0.58601	1500	0.00- 20.00	166.72	BA
5.036	5.038	-0.002	936596	0.26100	650	0.00- 20.00	52.90	BA
Average of Peak Concentrations =					1200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2642322	0.50472	1300	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1188518	0.27633	690	0.00- 20.00	44.98	BA
5.509	5.510	-0.001	2907685	0.37441	940	0.00- 20.00	110.04	BA
6.024	6.027	-0.003	1396637	0.28680	720	0.00- 20.00	52.86	BA
6.298	6.299	-0.001	4451259	0.68406	1700	0.00- 20.00	168.46	BA
Average of Peak Concentrations =					1100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	2191817	0.21887	550	0.00- 20.00	49.24	BA
7.250	7.251	-0.001	897064	0.18768	470	0.00- 20.00	20.15	BA
7.441	7.443	-0.002	700861	0.24042	600	0.00- 20.00	15.75	BA
7.899	7.901	-0.002	476931	0.18074	450	0.00- 20.00	10.71	BA
Average of Peak Concentrations =					520			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2267744	0.02070	52			

QC Flag Legend

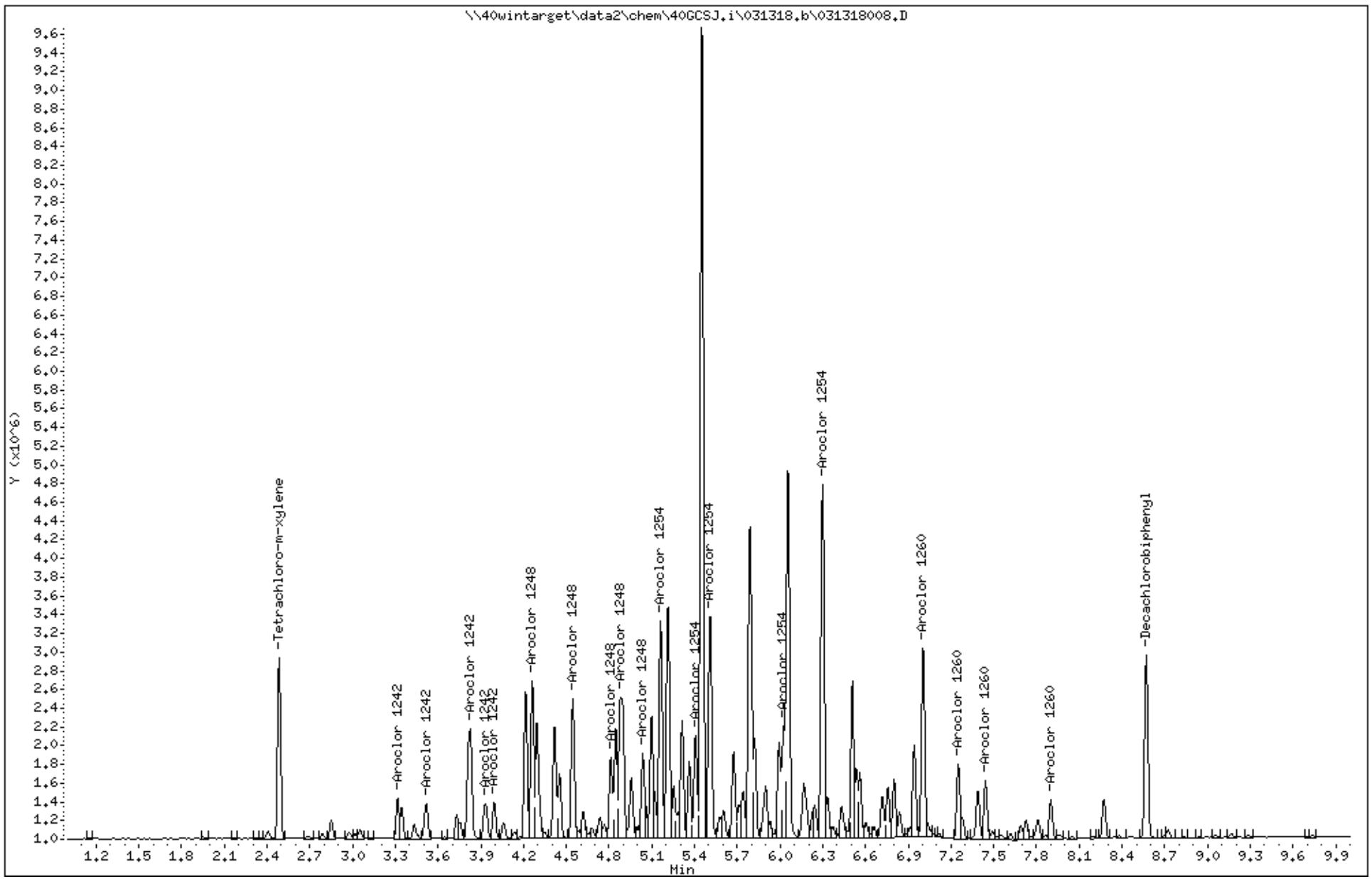
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

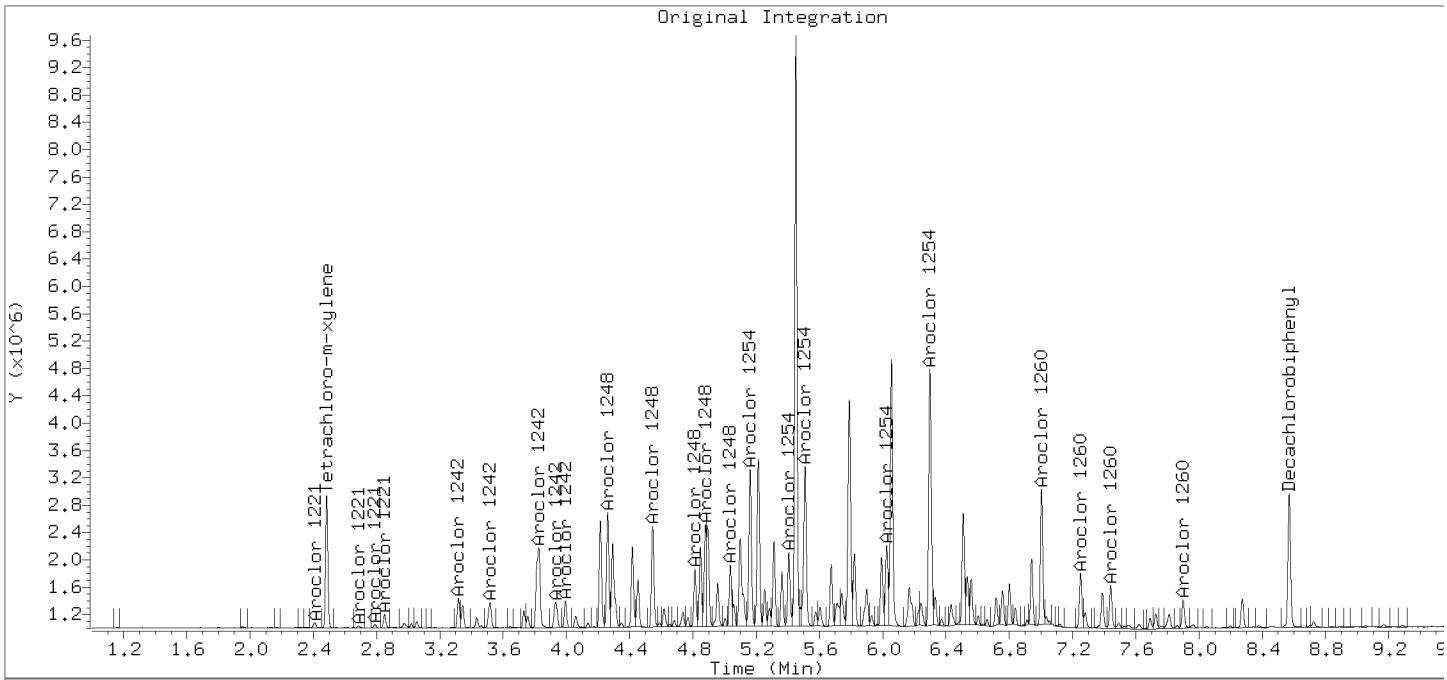
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

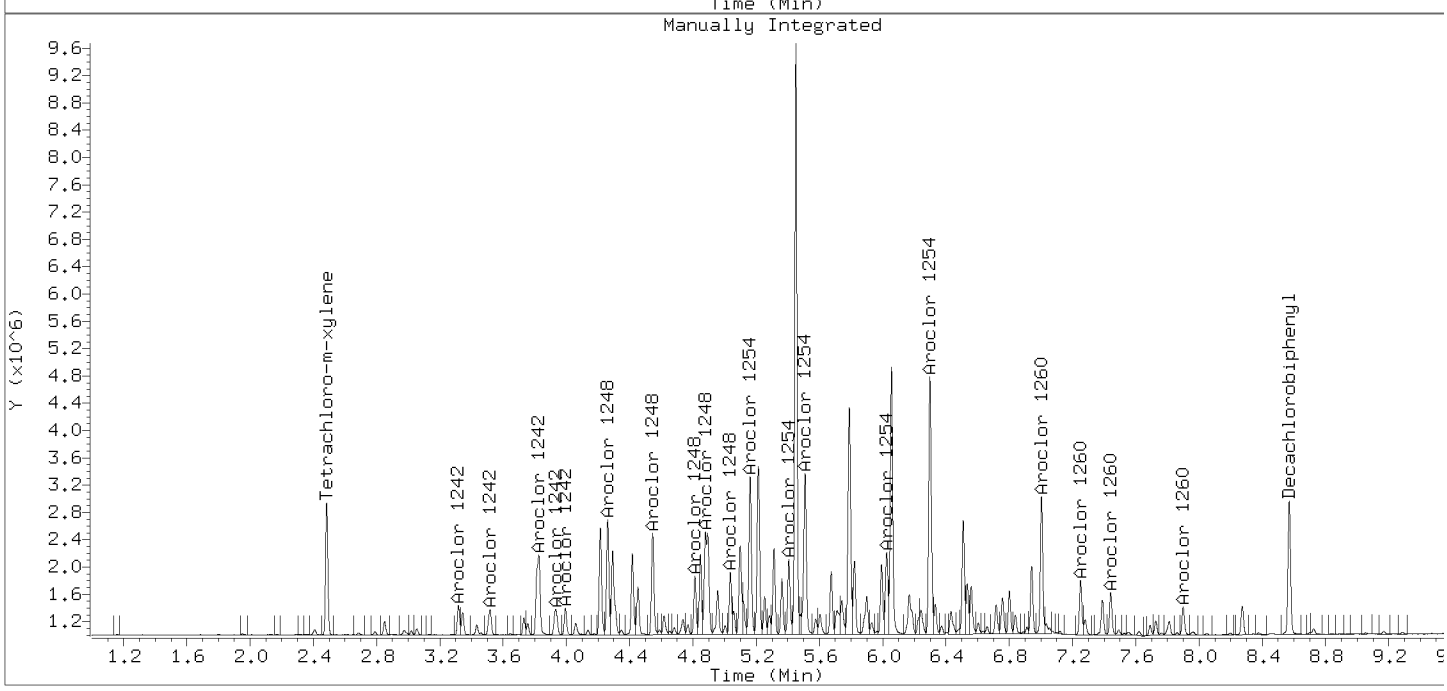
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318008.D
Date : 13-MAR-2018 15:21
Client ID: CS1-170518-01-STB-0
Sample Info: 1655663 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 15:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655663





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	447992	0	
Aroclor 1016	447992	0	
Aroclor 1016	447992	0	
Aroclor 1016	447992	0	
Aroclor 1016	447992	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	214691	0	
Aroclor 1232	214691	0	
Aroclor 1232	214691	0	
Aroclor 1232	214691	0	

Aroclor 1232	214691	0	
Aroclor 1242	447992	453100	BA
Aroclor 1242	447992	453100	BA
Aroclor 1242	447992	453100	BA
Aroclor 1242	447992	453100	BA
Aroclor 1242	447992	453100	BA
Aroclor 1248	1749652	1770630	BA
Aroclor 1248	1749652	1770630	BA
Aroclor 1248	1749652	1770630	BA
Aroclor 1248	1749652	1770630	BA
Aroclor 1248	1749652	1770630	BA
Aroclor 1254	2582704	2642322	BA
Aroclor 1254	2582704	2642322	BA
Aroclor 1254	2582704	2642322	BA
Aroclor 1254	2582704	2642322	BA
Aroclor 1254	2582704	2642322	BA
Aroclor 1260	4369390	0	BA
Aroclor 1260	4369390	0	BA
Aroclor 1260	4369390	0	BA
Aroclor 1260	4369390	0	BA
Aroclor 1260	4369390	0	BA
Tetrachloro-m-xylene	1974983	1974983	
Decachlorobiphenyl	2267744	2267744	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTON M

Date Received: 05/19/2017 10:05

Matrix: Tissue SDG No.: 40150295

Date Extracted: 03/12/2018 07:42

Lab Sample ID: 1655664

Date Analyzed: 03/13/2018 15:53

Lab File ID: 031318.B\031318010.D

Initial wt/vol: 10.0106 Final wt/vol: 5 mL Dilution: 5

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	786	
11097-69-1	PCB-1254 (Aroclor 1254)	746	
11096-82-5	PCB-1260 (Aroclor 1260)	375	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318010.D
Lab Smp Id: 1655664 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655664 x5,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: FIELDDUP
Dil Factor: 5.00000
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	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.953	15612	14092	0.903	0.02		
2.316	14407	12632	0.877	0.02		
2.356	9574	9121	0.953	0.01		
2.411	58460	47233	0.808	0.09		
2.484	2055966	1963092	0.955	3.35	$ 2 Tetrachloro-m-xylene	
2.786	12473	13197	1.058	0.02		
2.852	32336	23350	0.722	0.05		
2.975	74886	49346	0.659	0.12		
3.020	47621	45738	0.960	0.07		
3.054	64499	52789	0.818	0.10		
3.316	173646	171633	0.988	0.28		
3.344	171656	162331	0.946	0.28		
3.434	123367	91327	0.740	0.20		
3.518	211288	172345	0.816	0.34		
3.644	15959	14049	0.880	0.02		
3.731	147839	147367	0.997	0.24		
3.755	103752	99616	0.960	0.16		
3.825	1003520	597744	0.596	1.63		
3.937	228654	161449	0.706	0.37		
3.993	183428	169080	0.922	0.29		
4.057	128568	92031	0.716	0.20		
4.135	46750	38959	0.833	0.07		
4.215	1132203	1055636	0.932	1.84		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1196183	1129578	0.944	1.95	6 Aroclor 1248
4.292	1080755	841893	0.779	1.76	
4.349	55793	48332	0.866	0.09	
4.417	774164	730181	0.943	1.26	
4.453	469347	434026	0.925	0.76	
4.546	1015759	932438	0.918	1.65	6 Aroclor 1248
4.587	51040	47649	0.934	0.08	
4.619	204118	165247	0.810	0.33	
4.655	37299	35677	0.957	0.06	
4.681	84126	74281	0.883	0.13	
4.736	192977	152154	0.788	0.31	
4.767	106402	99187	0.932	0.17	
4.813	564336	555661	0.985	0.92	6 Aroclor 1248
4.848	746402	702645	0.941	1.21	
4.893	1988016	1042002	0.524	3.24	6 Aroclor 1248
4.956	542840	434144	0.800	0.88	
5.004	95505	91058	0.953	0.15	
5.037	520471	519297	0.998	0.84	6 Aroclor 1248
5.058	242059	242791	1.003	0.39	
5.098	1349285	882166	0.654	2.20	
5.162	1880262	1623744	0.864	3.06	7 Aroclor 1254
5.214	2001065	1725150	0.862	3.26	
5.253	401164	388501	0.968	0.65	
5.283	213318	197877	0.928	0.34	
5.313	922610	869108	0.942	1.50	
5.363	586262	554617	0.946	0.95	
5.406	811452	750303	0.925	1.32	7 Aroclor 1254
5.451	6109354	5915833	0.968	10.61	
5.510	2023466	1627996	0.805	3.30	7 Aroclor 1254
5.577	179557	164470	0.916	0.29	
5.604	244560	195362	0.799	0.39	
5.674	685510	626065	0.913	1.11	
5.710	380886	246135	0.646	0.62	
5.742	470200	336779	0.716	0.76	
5.789	2837448	2272093	0.801	4.62	
5.821	814647	739282	0.907	1.32	
5.899	550036	369666	0.672	0.89	
5.929	138652	120157	0.867	0.22	
5.965	30370	30440	1.002	0.04	
5.994	758689	717478	0.946	1.23	
6.026	957604	848603	0.886	1.56	7 Aroclor 1254
6.056	3170724	2772473	0.874	5.17	
6.169	698425	406670	0.582	1.13	
6.227	130066	167312	1.286	0.21	
6.244	347777	240616	0.692	0.56	
6.299	3182341	2699033	0.848	5.19	7 Aroclor 1254
6.333	327165	294820	0.901	0.53	
6.374	96116	84691	0.881	0.15	
6.404	16422	20146	1.227	0.02	
6.432	323314	230902	0.714	0.52	
6.481	59999	54112	0.902	0.09	
6.510	1306577	1166853	0.893	2.13	
6.535	538803	522200	0.969	0.87	
6.559	561710	493262	0.878	0.91	
6.605	123967	111401	0.899	0.20	
6.634	29783	31754	1.066	0.04	
6.659	80556	77435	0.961	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.718	339234	302268	0.891	0.55	
6.756	444236	378902	0.853	0.72	
6.802	471179	430159	0.913	0.76	
6.840	231928	198218	0.855	0.37	
6.886	22253	25251	1.135	0.03	
6.914	70413	70922	1.007	0.11	
6.942	743370	683057	0.919	1.21	
7.004	1602784	1473700	0.919	2.61	8 Aroclor 1260
7.035	112446	108347	0.964	0.18	
7.054	84928	63208	0.744	0.13	
7.102	11764	15415	1.310	0.01	
7.119	29866	25960	0.869	0.04	
7.251	640875	556865	0.869	1.04	8 Aroclor 1260
7.280	195706	156478	0.800	0.31	
7.388	441632	375298	0.850	0.72	
7.443	510797	451054	0.883	0.83	8 Aroclor 1260
7.492	71561	53944	0.754	0.11	
7.527	19735	21088	1.069	0.03	
7.554	41665	30310	0.727	0.06	
7.620	60194	45486	0.756	0.09	
7.691	110449	103006	0.933	0.18	
7.726	169450	153660	0.907	0.27	
7.764	26876	26839	0.999	0.04	
7.811	202269	141636	0.700	0.33	
7.863	29802	24211	0.812	0.04	
7.899	345622	294230	0.851	0.56	8 Aroclor 1260
7.960	54105	31737	0.587	0.08	
8.050	26922	22261	0.827	0.04	
8.198	16905	16363	0.968	0.02	
8.274	344818	314378	0.912	0.56	
8.345	11847	11629	0.982	0.01	
8.379	27229	20174	0.741	0.04	
8.569	2188544	1813862	0.829	3.57	$ 12 Decachlorobiphenyl
8.701	19768	20354	1.030	0.03	
8.725	66251	58472	0.883	0.10	
8.943	12131	9184	0.757	0.01	
8.989	11248	9157	0.814	0.01	
9.057	18850	13256	0.703	0.03	
9.168	38814	31902	0.822	0.06	
9.286	24449	20816	0.851	0.03	
9.734	17106	14414	0.843	0.02	
9.961	15733	9725	0.618	0.02	
	61289953	52685099		100.000	

Total unknown % area = 65

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318010.D
Lab Smp Id: 1655664 Client Smp ID: CS1-170518-01-STB-0
Inj Date : 13-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1655664 x5,
Misc Info : 17521,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031318.b\pcba030618.m
Meth Date : 27-Mar-2018 10:38 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: FIELDDUP
Dil Factor: 5.00000
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	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	2055965	0.01668	42			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1196182	0.51054	1300	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1015758	0.24474	610	0.00- 20.00	84.92	BA
4.812	4.812	0.000	564335	0.27799	690	0.00- 20.00	47.18	BA
4.892	4.879	0.013	1988016	0.39465	980	0.00- 20.00	166.20	BA
5.036	5.038	-0.002	520471	0.14504	360	0.00- 20.00	43.51	BA
Average of Peak Concentrations =					780			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1880262	0.35915	900	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	811452	0.18866	470	0.00- 20.00	43.16	BA
5.509	5.510	-0.001	2023466	0.26055	650	0.00- 20.00	107.62	BA
6.025	6.027	-0.002	957604	0.19665	490	0.00- 20.00	50.93	BA
6.298	6.299	-0.001	3182340	0.48906	1200	0.00- 20.00	169.25	BA
Average of Peak Concentrations =					750			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1602784	0.16005	400	0.00- 20.00	50.36	BA
7.250	7.251	-0.001	640874	0.13408	330	0.00- 20.00	20.14	BA
7.442	7.443	-0.001	510796	0.17522	440	0.00- 20.00	16.05	BA
7.899	7.901	-0.002	345621	0.13098	330	0.00- 20.00	10.86	BA
Average of Peak Concentrations =					370			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2188544	0.01998	50			

QC Flag Legend

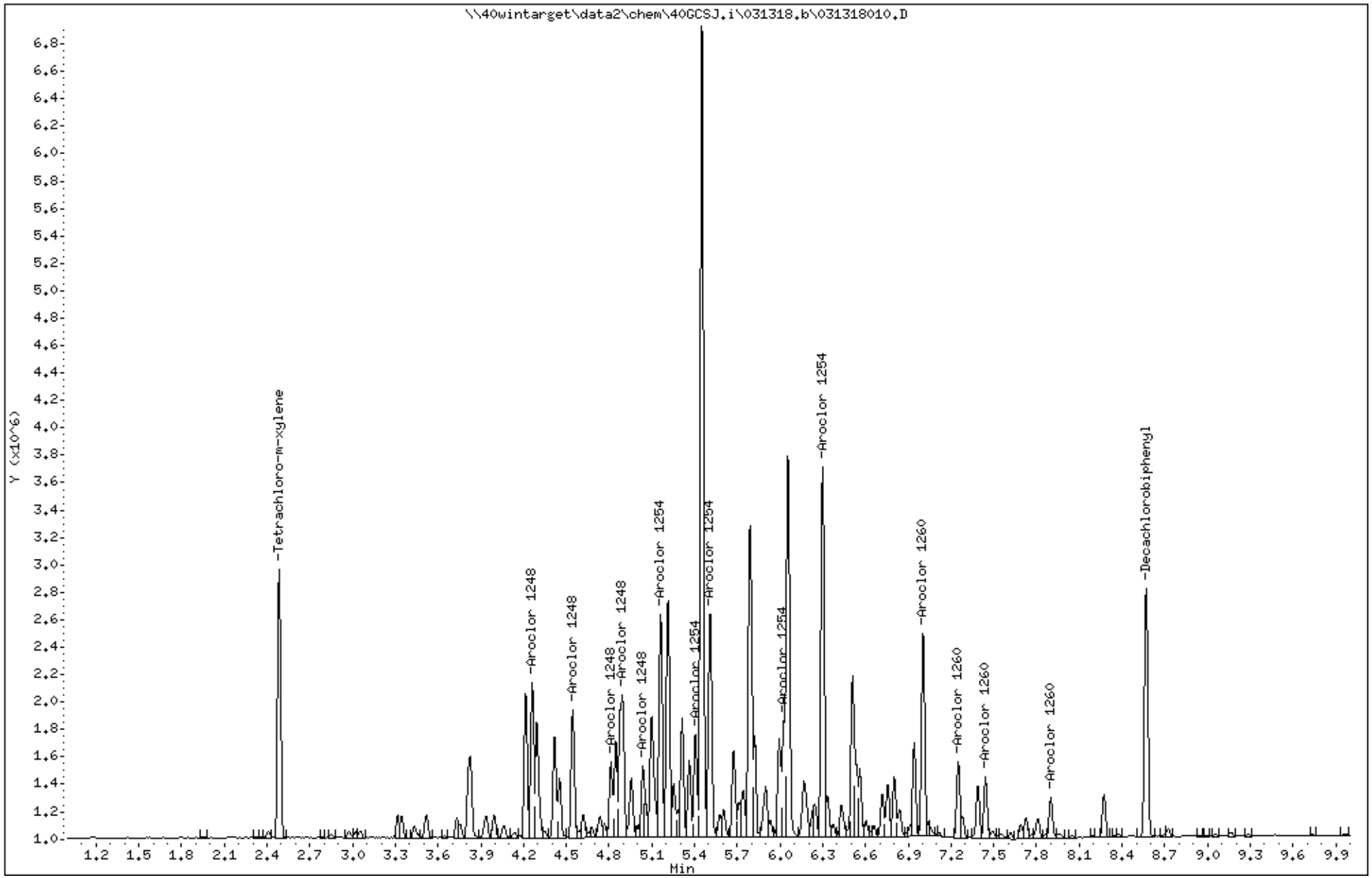
M - Compound response manually integrated.

Review Codes Legend

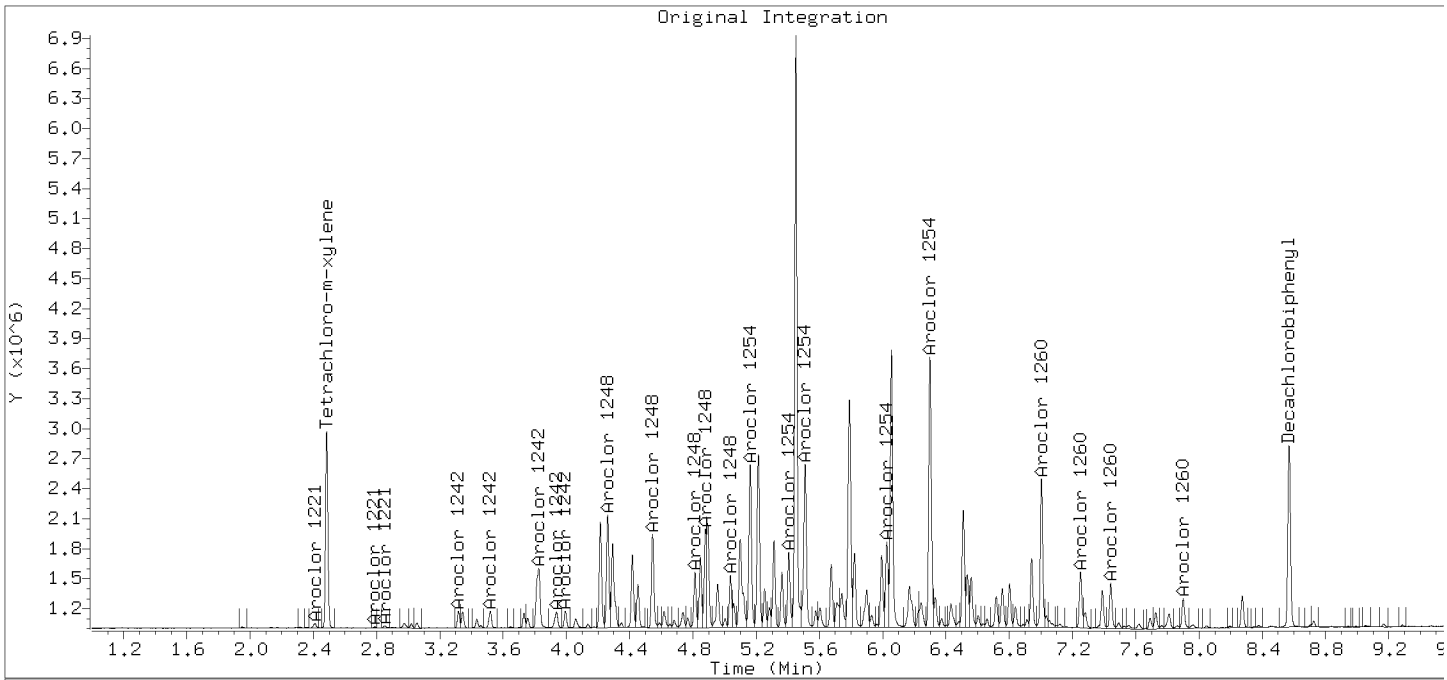
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

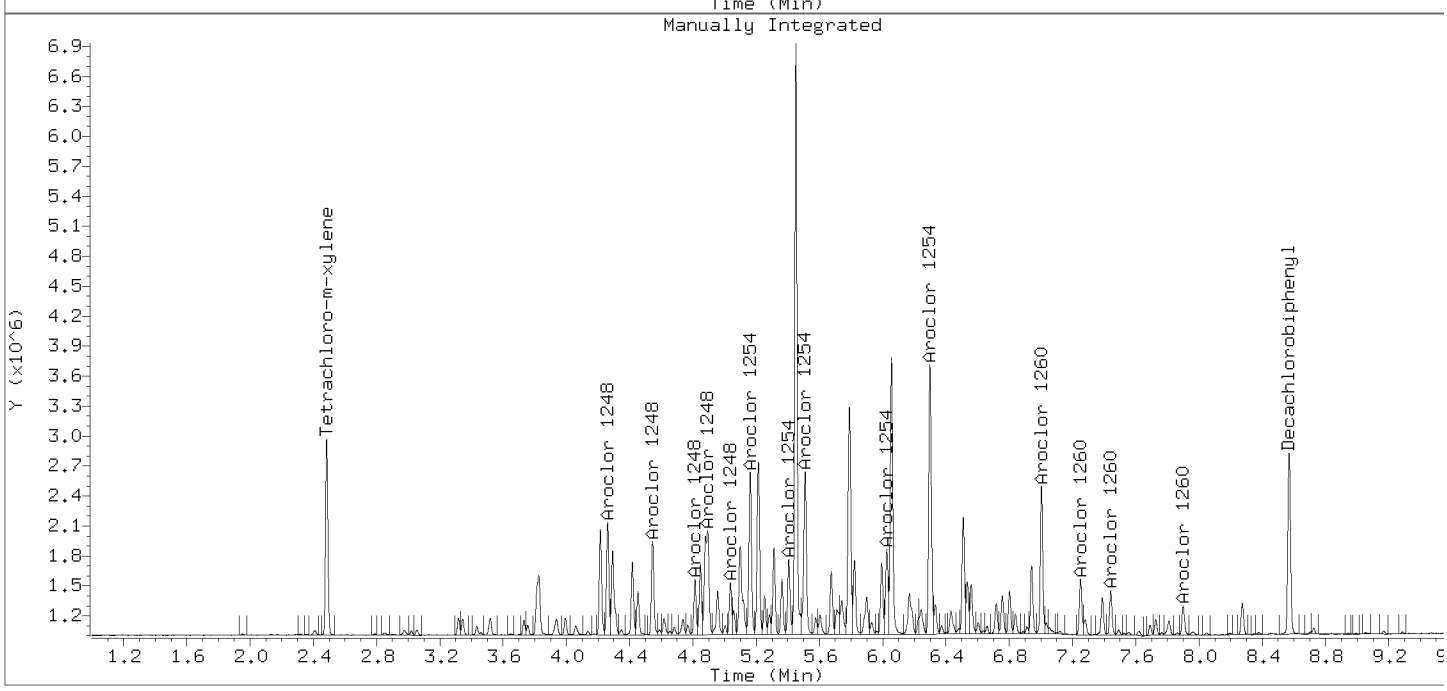
Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b\031318010.D
Date : 13-MAR-2018 15:53
Client ID: CS1-170518-01-STB-0
Sample Info: 1655664 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031318.b/031318010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-MAR-2018 15:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1655664





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	173645	0	
Aroclor 1016	173645	0	
Aroclor 1016	173645	0	
Aroclor 1016	173645	0	
Aroclor 1016	173645	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32335	0	
Aroclor 1232	32335	0	
Aroclor 1232	32335	0	
Aroclor 1232	32335	0	

Aroclor 1232	32335	0	
Aroclor 1242	173645	0	
Aroclor 1242	173645	0	
Aroclor 1242	173645	0	
Aroclor 1242	173645	0	
Aroclor 1242	173645	0	
Aroclor 1248	1188659	1196182	BA
Aroclor 1248	1188659	1196182	BA
Aroclor 1248	1188659	1196182	BA
Aroclor 1248	1188659	1196182	BA
Aroclor 1248	1188659	1196182	BA
Aroclor 1254	1881876	1880262	BA
Aroclor 1254	1881876	1880262	BA
Aroclor 1254	1881876	1880262	BA
Aroclor 1254	1881876	1880262	BA
Aroclor 1254	1881876	1880262	BA
Aroclor 1260	3192657	0	BA
Aroclor 1260	3192657	0	BA
Aroclor 1260	3192657	0	BA
Aroclor 1260	3192657	0	BA
Aroclor 1260	3192657	0	BA
Tetrachloro-m-xylene	2055965	2055965	
Decachlorobiphenyl	2188544	2188544	

==========

Prep Log Report

Batch Information: OEXT 282341 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	03/05/2018 07:12:05:305
Spiked By	AMC	Spiked By Date/Time	03/05/2018 07:12:06:417	Witnessed By	BLM	Witnessed By Date/Time	03/05/2018 07:12:06:417
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane	188917	Sodium Sulfate	186889	Florisil	186910	3620B Date/Initials	3/07/18 AMC
H2SO4 - Conc.	179361	Acid 3665A Date/Initials	3/07/18 AMC	Tuna	None Added	Reviewed By	CAH
Reviewed By Date	03/27/2018 10:15	Batch Notes	Hex/Ace 50:50-190415				

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	**1654789**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1654790**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	RQS	**40148722009**	9.9765	5	3		189973 (.25)	
8082A TNYP	MS	**1654791**	9.9878	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1654792**	9.9848	5	3		189973 (.25)	
8082A TNYP	PS	**40150295001**	10.001	5	3		189973 (.25)	
8082A TNYP	PS	**40150295002**	9.996	5	3		189973 (.25)	
8082A TNYP	PS	**40150295003**	9.964	5	3		189973 (.25)	
8082A TNYP	PS	**40150295004**	10.0388	5	3		189973 (.25)	
8082A TNYP	PS	**40150295005**	9.9735	5	3		189973 (.25)	
8082A TNYP	PS	**40150295006**	9.9767	5	3		189973 (.25)	
8082A TNYP	PS	**40150295007**	9.986	5	3		189973 (.25)	
8082A TNYP	PS	**40150295008**	9.9688	5	3		189973 (.25)	
8082A TNYP	RQS	**40150295009**	10.0318	5	3		189973 (.25)	
8082A TNYP	DUP	**1654793**	9.9773	5	3		189973 (.25)	
8082A TNYP	PS	**40150295010**	9.9615	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40150295011**	10.0004	5	3		189973 (.25)	
8082A TNYP	PS	**40150295012**	9.9732	5	3		189973 (.25)	
8082A TNYP	PS	**40150295013**	9.9876	5	3		189973 (.25)	
8082A TNYP	PS	**40150295014**	10.0191	5	3		189973 (.25)	
8082A TNYP	PS	**40150295015**	9.9684	5	3		189973 (.25)	
8082A TNYP	PS	**40150295016**	10.0135	5	3		189973 (.25)	
8082A TNYP	PS	**40150295017**	10.0128	5	3		189973 (.25)	
8082A TNYP	PS	**40150295018**	9.9713	5	3		189973 (.25)	

Standard Notes:

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

Prep Log Report

Batch Information: OEXT 282598 PCB-B 2

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/12/2018 07:42:08:001
Spiked By	AMC	Spiked By Date/Time	03/12/2018 07:42:09:160	Witnessed By	ETB	Witnessed By Date/Time	03/12/2018 07:42:09:160
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane	188917	Sodium Sulfate	188340	Florisil	186910	3620B Date/Initials	03/13/18 AMC
H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/13/18 AMC	Tuna	None Added	Reviewed By	BLM
Reviewed By Date	03/23/2018 13:52	Batch Notes	Hex/Ace 50:50-191186, Bacth was re-extracted under the same batch number.				

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	**1655661**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1655662**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40150295019**	10.012	5	3		189973 (.25)	
8082A TNYP	MS	**1655663**	10.0094	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1655664**	10.0106	5	3		189973 (.25)	
8082A TNYP	PS	**40150295020**	9.9616	5	3		189973 (.25)	
8082A TNYP	PS	**40151597002**	10.0054	5	3		189973 (.25)	
8082A TNYP	PS	**40151597003**	9.9731	5	3		189973 (.25)	
8082A TNYP	PS	**40151601002**	9.9928	5	3		189973 (.25)	
8082A TNYP	PS	**40151608001**	9.9824	5	3		189973 (.25)	
8082A TNYP	PS	**40151608002**	10.0008	5	3		189973 (.25)	
8082A TNYP	PS	**40151608011**	10.0021	5	3		189973 (.25)	
8082A TNYP	PS	**40151800006**	10.0226	5	3		189973 (.25)	
8082A TNYP	PS	**40151800007**	10.0192	5	3		189973 (.25)	
8082A TNYP	PS	**40151800008**	9.98	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40151800009**	10.0226	5	3		189973 (.25)	
8082A TNYP	PS	**40151800010**	9.9707	5	3		189973 (.25)	
8082A TNYP	PS	**40151804004**	10.0181	5	3		189973 (.25)	
8082A TNYP	PS	**40151804005**	9.9782	5	3		189973 (.25)	
8082A TNYP	PS	**40151804006**	9.9895	5	3		189973 (.25)	
8082A TNYP	RQS	**40151804007**	10.0333	5	3		189973 (.25)	
8082A TNYP	DUP	**1655665**	9.9824	5	3		189973 (.25)	
8082A TNYP	PS	**40151804008**	9.9931	5	3		189973 (.25)	

Standard Notes:

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

```
   Sequence Name: C:\msdchem\1\sequence\030718.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\030718\
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  1654789MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1654790LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1654791MS
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40148722-009
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  1654792DUP
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40150295-001
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40150295-002
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40150295-003
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40150295-004
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40150295-005
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40150295-006
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40150295-007
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40150295-008
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40150295-009
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1654793DUP
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40150295-010 x2
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40150295-011 x2
     Datafile           --------

  Last Modified: Wed Mar 07 10:59:54 2018                Page:  1
```

GE BIOTA

BLK 3/15/18

Continued on Page 6

Read and Understood By

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

```
      Method                SCREEN2014
20)   Sample        20      40150295-012 —
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40150295-013 x10
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40150295-014 —
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      40150295-015 x2
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      40150295-016 —
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp      25      40150295-017 —
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40150295-018 —
      Datafile              --------
      Method                SCREEN2014
```

Last Modified: Wed Mar 07 10:59:54 2018 Page: 2

BLM 3/15/18

Continued on Page —

Read and Understood By

Bryan Meyer 3/15/18 Signed Date

3/15/18 Signed Date

```
    Sequence Name: C:\msdchem\1\sequence\031318.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\031318\
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  1658171MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1658172LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1658173MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1658174MSD
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40165731-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40165479-001
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40165479-002
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40165479-003
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40165479-004
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40165650-001
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40165650-002
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40165650-003P
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40165650-004
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40165696-001
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  1655661MB
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  1655662LCS
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  1655663MS x5
     Datafile          --------

   Last Modified: Tue Mar 13 12:00:34 2018                Page:  1
```

GE BIOTA

BLM 3/15/18

Continued on Page 10

Read and Understood By

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

```
      Method                SCREEN2014
20)   Sample        20      40150295-019  x5
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp       21      1655664DUP  x5
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40150295-020  —
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp       23      40151597-002  —
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      40151597-003  —
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp       25      40151601-002  —
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40151608-001  x2
      Datafile              --------
      Method                SCREEN2014
27)   RearSamp       27      40151608-002  —
      Datafile              --------
      Method                SCREEN2014
28)   Sample        28      40151608-011  —
      Datafile              --------
      Method                SCREEN2014
29)   RearSamp       29      40151800-006  x3
      Datafile              --------
      Method                SCREEN2014
30)   Sample        30      40151800-007  x3
      Datafile              --------
      Method                SCREEN2014
31)   RearSamp       31      40151800-008  x3
      Datafile              --------
      Method                SCREEN2014
32)   Sample        32      40151800-009  x3
      Datafile              --------
      Method                SCREEN2014
33)   RearSamp       33      40151800-010  x3
      Datafile              --------
      Method                SCREEN2014
34)   Sample        34      40151804-004  x3
      Datafile              --------
      Method                SCREEN2014
35)   RearSamp       35      40151804-005  —
      Datafile              --------
      Method                SCREEN2014
36)   Sample        36      40151804-006  x3
      Datafile              --------
      Method                SCREEN2014
37)   RearSamp       37      40151804-007  x15
      Datafile              --------
      Method                SCREEN2014
38)   Sample        38      1655665DUP  x15
      Datafile              --------
      Method                SCREEN2014
39)   RearSamp       39      40151804-008  x3
      Datafile              --------
      Method                SCREEN2014
40)   Sample        40      HEXANE
      Datafile              --------
      Method                SCREEN2014
```

Last Modified: Tue Mar 13 12:00:34 2018

Page: 2

BLM 3/15/18

Continued on Page —

Read and Understood By

Signed 3/15/18 Date

Signed 3/15/18 Date

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

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

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

   Last Modified: Tue Mar 06 10:58:59 2018                  Page:  1
```

BLM 3/7/18

Continued on Page 5

Read and Understood By

Bryan Mayl — Signed — 3/7/18 — Date

Signed — 3/7/18 — Date

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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  2
```

BLM 3/7/18

Continued on Page 6

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		

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

Page: 3

BLM 3/7/18

Continued on Page 7

Read and Understood By

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

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

Last Modified: Tue Mar 06 10:58:59 2018          Page:  4
```

BLM 3/7/18

Continued on Page —

Read and Understood By

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

```
   Sequence Name: C:\msdchem\1\sequence\030718.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030718\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

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

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030718001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030718002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030718003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030718004
     Method            GEBIOTA2017
 6) RearSamp        5  HEXANE
     Datafile          030718005
     Method            GEBIOTA2017
 7) Sample          6  HEXANE
     Datafile          030718006
     Method            GEBIOTA2017
 8) RearSamp        7  1221-CCV,185538:1,17499,AR122 ok
     Datafile          030718007
     Method            GEBIOTA2017
 9) Sample          8  1221-CCV,185538:1,17498,AR122 ok
     Datafile          030718008
     Method            GEBIOTA2017
10) RearSamp        9  1221-CCV,185538:1,17499,AR122 ok
     Datafile          030718009
     Method            GEBIOTA2017
11) Sample         10  1221-CCV,185538:1,17498,AR122 ok
     Datafile          030718010
     Method            GEBIOTA2017
12) RearSamp       11  1653810,,17493,BIOTA
     Datafile          030718011
     Method            GEBIOTA2017
13) Sample         12  1654789,,17504,BIOTA
     Datafile          030718012
     Method            GEBIOTA2017
14) RearSamp       13  1653811,,17493,BIOTA
     Datafile          030718013
     Method            GEBIOTA2017
15) Sample         14  1654790,,17504,BIOTA
     Datafile          030718014
     Method            GEBIOTA2017
16) RearSamp       15  1653812 x2,,17493,BIOTA
     Datafile          030718015
     Method            GEBIOTA2017
17) Sample         16  1654791,,17504,BIOTA
     Datafile          030718016
     Method            GEBIOTA2017
18) RearSamp       17  40148598001,,17493,BIOTA
     Datafile          030718017
     Method            GEBIOTA2017
19) Sample         18  40148722009,,17504,BIOTA
     Datafile          030718018
     Method            GEBIOTA2017
20) RearSamp       19  40148598002,,17493,BIOTA

   Last Modified: Wed Mar 07 12:34:27 2018                Page:  1
```

BLM 3/8/18

Continued on Page 9

Read and Understood By

Bryan Mayl — Signed — 3/8/18 — Date

Jim O'Connor — Signed — 3-8-18 — Date

```
      Datafile          030718019
      Method            GEBIOTA2017
21) Sample        20    1654792,,17504,BIOTA
      Datafile          030718020
      Method            GEBIOTA2017
22) RearSamp      21    40148598003,,17493,BIOTA
      Datafile          030718021
      Method            GEBIOTA2017
23) Sample        22    40150295001,,17504,BIOTA
      Datafile          030718022
      Method            GEBIOTA2017
24) RearSamp      23    40148598004,,17493,BIOTA
      Datafile          030718023
      Method            GEBIOTA2017
25) Sample        24    40150295002,,17504,BIOTA
      Datafile          030718024
      Method            GEBIOTA2017
26) RearSamp      25    40148598005 x2,,17493,BIOTA
      Datafile          030718025
      Method            GEBIOTA2017
27) Sample        26    40150295003,,17504,BIOTA
      Datafile          030718026
      Method            GEBIOTA2017
28) RearSamp      27    1653813 x2,,17493,BIOTA
      Datafile          030718027
      Method            GEBIOTA2017
29) Sample        28    40150295004,,17504,BIOTA
      Datafile          030718028
      Method            GEBIOTA2017
30) RearSamp      29    40148671001,,17493,BIOTA
      Datafile          030718029
      Method            GEBIOTA2017
31) Sample        30    40150295005,,17504,BIOTA
      Datafile          030718030
      Method            GEBIOTA2017
32) RearSamp      31    1232-CCV,185539:1,17499,AR123 ok
      Datafile          030718031
      Method            GEBIOTA2017
33) Sample        32    1232-CCV,185539:1,17498,AR123 ok
      Datafile          030718032
      Method            GEBIOTA2017
34) RearSamp      33    1232-CCV,185539:1,17499,AR123 ok
      Datafile          030718033
      Method            GEBIOTA2017
35) Sample        34    1232-CCV,185539:1,17498,AR123 ok
      Datafile          030718034
      Method            GEBIOTA2017
36) RearSamp      35    40148671002,,17493,BIOTA
      Datafile          030718035
      Method            GEBIOTA2017
37) Sample        36    40150295006,,17504,BIOTA
      Datafile          030718036
      Method            GEBIOTA2017
38) RearSamp      37    40148671003,,17493,BIOTA
      Datafile          030718037
      Method            GEBIOTA2017
39) Sample        38    40150295007,,17504,BIOTA
      Datafile          030718038
      Method            GEBIOTA2017
40) RearSamp      39    40148671004,,17493,BIOTA
      Datafile          030718039
      Method            GEBIOTA2017
41) Sample        40    40150295008,,17504,BIOTA
      Datafile          030718040
      Method            GEBIOTA2017
42) RearSamp      41    1653814,,17493,BIOTA
      Datafile          030718041
      Method            GEBIOTA2017
43) Sample        42    40150295009,,17504,BIOTA
      Datafile          030718042
      Method            GEBIOTA2017

Last Modified: Wed Mar 07 12:34:27 2018          Page: 2
```

BLK 3/8/18

Continued on Page 10

Read and Understood By

Bryan Meyer — Signed — 3/8/18 — Date

Jim O'Connor — Signed — 3-8-18 — Date

Sequence Name: C:\msdchem\1\sequence\030718.s

	Line Type	Vial	DataFile Method Sample Name
44)	RearSamp	43	40148671005,,17493,BIOTA
	Datafile		030718043
	Method		GEBIOTA2017
45)	Sample	44	1654793,,17504,BIOTA
	Datafile		030718044
	Method		GEBIOTA2017
46)	RearSamp	45	40148671006,,17493,BIOTA
	Datafile		030718045
	Method		GEBIOTA2017
47)	Sample	46	40150295010 x2,,17504,BIOTA
	Datafile		030718046
	Method		GEBIOTA2017
48)	RearSamp	47	40148722001,,17493,BIOTA
	Datafile		030718047
	Method		GEBIOTA2017
49)	Sample	48	40150295011 x2,,17504,BIOTA
	Datafile		030718048
	Method		GEBIOTA2017
50)	RearSamp	49	40148722002,,17493,BIOTA
	Datafile		030718049
	Method		GEBIOTA2017
51)	Sample	50	40150295012,,17504,BIOTA
	Datafile		030718050
	Method		GEBIOTA2017
52)	RearSamp	51	40148722003 x2,,17493,BIOTA
	Datafile		030718051
	Method		GEBIOTA2017
53)	Sample	52	40150295013 x10,,17504,BIOTA
	Datafile		030718052
	Method		GEBIOTA2017
54)	RearSamp	53	40148722004,,17493,BIOTA
	Datafile		030718053
	Method		GEBIOTA2017
55)	Sample	54	40150295014,,17504,BIOTA
	Datafile		030718054
	Method		GEBIOTA2017
56)	RearSamp	55	1242-CCV,185544:1,17499,AR124 ok
	Datafile		030718055
	Method		GEBIOTA2017
57)	Sample	56	1242-CCV,185544:1,17498,AR124 ok
	Datafile		030718056
	Method		GEBIOTA2017
58)	RearSamp	57	1242-CCV,185544:1,17499,AR124 ok
	Datafile		030718057
	Method		GEBIOTA2017
59)	Sample	58	1242-CCV,185544:1,17498,AR124 ok
	Datafile		030718058
	Method		GEBIOTA2017
60)	RearSamp	59	40148722005,,17493,BIOTA
	Datafile		030718059
	Method		GEBIOTA2017
61)	Sample	60	40150295015 x2,,17504,BIOTA
	Datafile		030718060
	Method		GEBIOTA2017
62)	RearSamp	61	40148722006,,17493,BIOTA
	Datafile		030718061
	Method		GEBIOTA2017
63)	Sample	62	40150295016,,17504,BIOTA
	Datafile		030718062
	Method		GEBIOTA2017
64)	RearSamp	63	40148722007,,17493,BIOTA
	Datafile		030718063
	Method		GEBIOTA2017
65)	Sample	64	40150295017,,17504,BIOTA
	Datafile		030718064
	Method		GEBIOTA2017
66)	RearSamp	65	40148722008,,17493,BIOTA
	Datafile		030718065

Last Modified: Wed Mar 07 12:34:27 2018 Page: 3

BLM 3/8/18

Continued on Page 11

Read and Understood By

Beg Meyl 3/8/18 Signed Date

Jim O'Connor 3-8-18 Signed Date

```
      Method              GEBIOTA2017
67) Sample          66  40150295018,,17504,BIOTA
      Datafile            030718066
      Method              GEBIOTA2017
68) RearSamp        67  1248-CCV,185549:1,17499,AR124 OK
      Datafile            030718067
      Method              GEBIOTA2017
69) Sample          68  1248-CCV,185549:1,17498,AR124 OK
      Datafile            030718068
      Method              GEBIOTA2017
70) RearSamp        69  1248-CCV,185549:1,17499,AR124 OK
      Datafile            030718069
      Method              GEBIOTA2017
71) Sample          70  1248-CCV,185549:1,17498,AR124 OK
      Datafile            030718070
      Method              GEBIOTA2017
```

Last Modified: Wed Mar 07 12:34:27 2018 Page: 4

BLK 3/8/18

Continued on Page —

Read and Understood By

Signed 3/8/18 Date Signed 3-8-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\031318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\031318\
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          031318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          031318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          031318003
     Method            GEBIOTA2017
 4) Sample          4  1242-CCV,185544:1,17498,AR124 OK
     Datafile          031318004
     Method            GEBIOTA2017
 5) Sample          5  1242-CCV,185544:1,17498,AR124 OK
     Datafile          031318005
     Method            GEBIOTA2017
 6) Sample          6  1655661,,17521,BIOTA
     Datafile          031318006
     Method            GEBIOTA2017
 7) Sample          7  1655662,,17521,BIOTA
     Datafile          031318007
     Method            GEBIOTA2017
 8) Sample          8  1655663 x5,,17521,BIOTA
     Datafile          031318008
     Method            GEBIOTA2017
 9) Sample          9  40150295019 x5,,17521,BIOTA
     Datafile          031318009
     Method            GEBIOTA2017
10) Sample         10  1655664 x5,,17521,BIOTA
     Datafile          031318010
     Method            GEBIOTA2017
11) Sample         11  40150295020,,17521,BIOTA
     Datafile          031318011
     Method            GEBIOTA2017
12) Sample         12  40151597002,,17521,BIOTA RS
     Datafile          031318012
     Method            GEBIOTA2017
13) Sample         13  40151597003,,17521,BIOTA
     Datafile          031318013
     Method            GEBIOTA2017
14) Sample         14  40151601002,,17521,BIOTA
     Datafile          031318014
     Method            GEBIOTA2017
15) Sample         15  40151608001 x2,,17521,BIOTA
     Datafile          031318015
     Method            GEBIOTA2017
16) Sample         16  1248-CCV,185549:1,17498,AR124 OK
     Datafile          031318016
     Method            GEBIOTA2017
17) Sample         17  1248-CCV,185549:1,17498,AR124 OK
     Datafile          031318017
     Method            GEBIOTA2017
18) Sample         18  40151608002,,17521,BIOTA
     Datafile          031318018
     Method            GEBIOTA2017
19) Sample         19  40151608011,,17521,BIOTA RS
     Datafile          031318019

   Last Modified: Tue Mar 13 13:26:45 2018                Page:  1
```

BLM 3/14/18

Continued on Page 15

Read and Understood By

Signed 3/14/18 Date Signed 3/14/18 Date

```
      Method          GEBIOTA2017
20) Sample      20  40151800006 x3,,17521,BIOTA
     Datafile       031318020
      Method        GEBIOTA2017
21) Sample      21  40151800007 x3,,17521,BIOTA
     Datafile       031318021
      Method        GEBIOTA2017
22) Sample      22  40151800008 x3,,17521,BIOTA
     Datafile       031318022
      Method        GEBIOTA2017
23) Sample      23  40151800009 x3,,17521,BIOTA
     Datafile       031318023
      Method        GEBIOTA2017
24) Sample      24  40151800010 x3,,17521,BIOTA RS
     Datafile       031318024
      Method        GEBIOTA2017
25) Sample      25  40151804004 x3,,17521,BIOTA
     Datafile       031318025
      Method        GEBIOTA2017
26) Sample      26  40151804005,,17521,BIOTA RS
     Datafile       031318026
      Method        GEBIOTA2017
27) Sample      27  40151804006 x3,,17521,BIOTA
     Datafile       031318027
      Method        GEBIOTA2017
28) Sample      28  1254-CCV,185554:1,17498,AR125 OK
     Datafile       031318028
      Method        GEBIOTA2017
29) Sample      29  1254-CCV,185554:1,17498,AR125 OK
     Datafile       031318029
      Method        GEBIOTA2017
30) Sample      30  40151804007 x15,,17521,BIOTA
     Datafile       031318030
      Method        GEBIOTA2017
31) Sample      31  1655665 x15,,17521,BIOTA
     Datafile       031318031
      Method        GEBIOTA2017
32) Sample      32  40151804008 x3,,17521,BIOTA
     Datafile       031318032
      Method        GEBIOTA2017
33) Sample      33  1660-CCV,185559:1,17498,AR166 OK
     Datafile       031318033
      Method        GEBIOTA2017
34) Sample      34  1660-CCV,185559:1,17498,AR166 OK
     Datafile       031318034
      Method        GEBIOTA2017
35) Sample      35  1656929,,17518,BIOTA
     Datafile       031318035
      Method        GEBIOTA2017
36) Sample      36  1656930,,17518,BIOTA
     Datafile       031318036
      Method        GEBIOTA2017
37) Sample      37  1656931,,17518,BIOTA
     Datafile       031318037
      Method        GEBIOTA2017
38) Sample      38  1656932,,17518,BIOTA
     Datafile       031318038
      Method        GEBIOTA2017
39) Sample      39  1656933,,17518,BIOTA
     Datafile       031318039
      Method        GEBIOTA2017
40) Sample      40  1656934,,17518,BIOTA
     Datafile       031318040
      Method        GEBIOTA2017
41) Sample      41  1656935,,17518,BIOTA
     Datafile       031318041
      Method        GEBIOTA2017
42) Sample      42  1656936,,17518,BIOTA
     Datafile       031318042
      Method        GEBIOTA2017
43) Sample      43  1656937,,17518,BIOTA
     Datafile       031318043

   Last Modified: Tue Mar 13 13:26:45 2018          Page:  2
```

BLM 3/14/18

Continued on Page 16

Read and Understood By

Signed 3/14/18 Date Signed 3/14/18 Date

Sequence Name: C:\msdchem\1\sequence\031318.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	1656938,,17518,BIOTA		
	Datafile		031318044		
	Method			GEBIOTA2017	
45)	Sample	45	1221-CCV,185538:1,17498,AR122		ok
	Datafile		031318045		
	Method			GEBIOTA2017	
46)	Sample	46	1221-CCV,185538:1,17498,AR122		ok
	Datafile		031318046		
	Method			GEBIOTA2017	
47)	Sample	47	1656939,,17518,BIOTA		
	Datafile		031318047		
	Method			GEBIOTA2017	
48)	Sample	48	1656940,,17518,BIOTA		
	Datafile		031318048		
	Method			GEBIOTA2017	
49)	Sample	49	1656941,,17518,BIOTA		
	Datafile		031318049		
	Method			GEBIOTA2017	
50)	Sample	50	1656942,,17518,BIOTA		
	Datafile		031318050		
	Method			GEBIOTA2017	
51)	Sample	51	1656943,,17518,BIOTA		
	Datafile		031318051		
	Method			GEBIOTA2017	
52)	Sample	52	1656944,,17518,BIOTA		
	Datafile		031318052		
	Method			GEBIOTA2017	
53)	Sample	53	1656945,,17518,BIOTA		
	Datafile		031318053		
	Method			GEBIOTA2017	
54)	Sample	54	1232-CCV,185539:1,17498,AR123		ok
	Datafile		031318054		
	Method			GEBIOTA2017	
55)	Sample	55	1232-CCV,185539:1,17498,AR123		ok
	Datafile		031318055		
	Method			GEBIOTA2017	

Screener run on 40GCSI 03/13/18
BLK 3/23/18

Last Modified: Tue Mar 13 13:26:45 2018 Page: 4

BLK 3/14/18

Continued on Page —

Read and Understood By

Signed 3/14/18 Date Signed 3/14/18 Date

Standard Log Report

Standards Log Information for Standard #191186

WORKING STANDARD

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

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191186

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

Composed of Information for Standard #191186

Composed of Standard Seq	Volume	Units
190951	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #190951

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190951

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #190415

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/02/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/02/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #190415

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

Composed of Information for Standard #190415

Composed of Standard Seq	Volume	Units
189478	2000	mL
188917	2000	mL

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 #189478

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189478

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188340

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	02/01/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #188340

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

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

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

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 #186889

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	01/11/2018	**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 #186889

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

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

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

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

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

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

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

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

Composed of Information for Standard #185565

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

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

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

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

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

Composed of Information for Standard #185564

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

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

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

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

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

Composed of Information for Standard #185563

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

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

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

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

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

Composed of Information for Standard #185562

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

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

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

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

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

Composed of Information for Standard #185561

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

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

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

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

Composed of Information for Standard #185560

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

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

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

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

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

Composed of Information for Standard #185559

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

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

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

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

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

Composed of Information for Standard #185558

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

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

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

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

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

Composed of Information for Standard #185556

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

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

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

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

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

Composed of Information for Standard #185555

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

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

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

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

Composed of Information for Standard #185554

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

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

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

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

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

Composed of Information for Standard #185553

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

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

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

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

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

Composed of Information for Standard #185551

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

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

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

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

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

Composed of Information for Standard #185550

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

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

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

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

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

Composed of Information for Standard #185549

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

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

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

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

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

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

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

Composed of Information for Standard #185538

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

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

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

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

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

Composed of Information for Standard #185537

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

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

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

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

Composed of Information for Standard #185536

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

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

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

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

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

Composed of Information for Standard #185535

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

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

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

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

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

Composed of Information for Standard #185534

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

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

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

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

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

Composed of Information for Standard #185533

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

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

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

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

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

Composed of Information for Standard #185530

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

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

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

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

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

Composed of Information for Standard #185529

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

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

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

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

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

Composed of Information for Standard #185528

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

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

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

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

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

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

Composed of Information for Standard #185527

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

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

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

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

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

Composed of Information for Standard #185526

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

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

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

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

Standard Log Report

Standards Log Information for Standard #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

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

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

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

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

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

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

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

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

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

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

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

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

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

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

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

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

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

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

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

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #172034

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

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

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

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

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ 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 **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 --

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:
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.

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

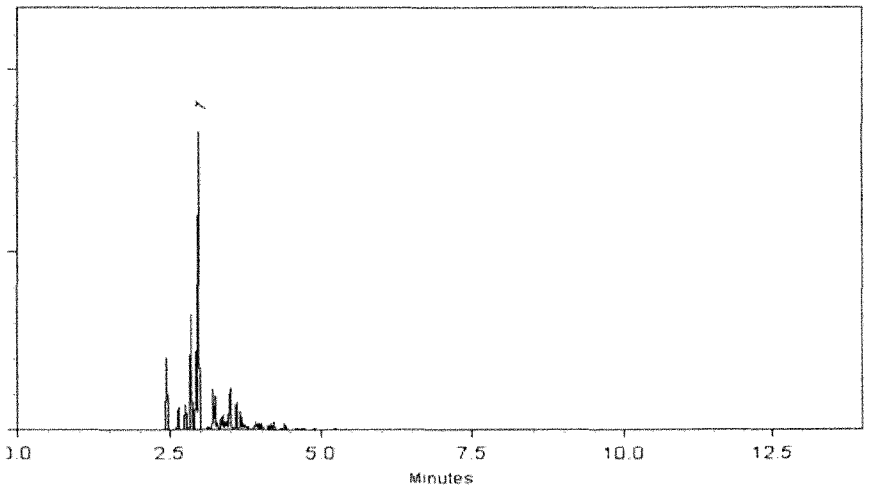
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

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

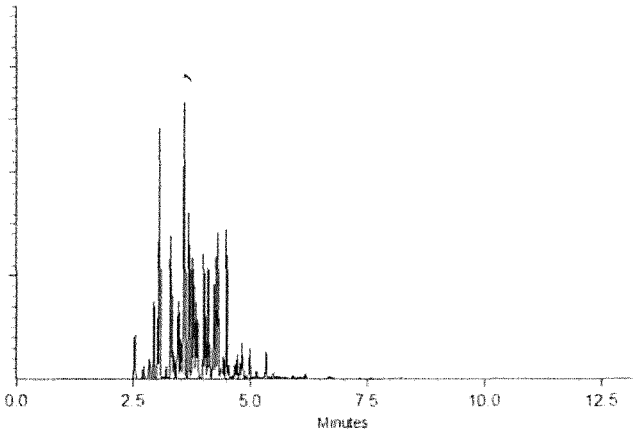
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.AKM QC

Date Passed: 31-Jan-2017

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

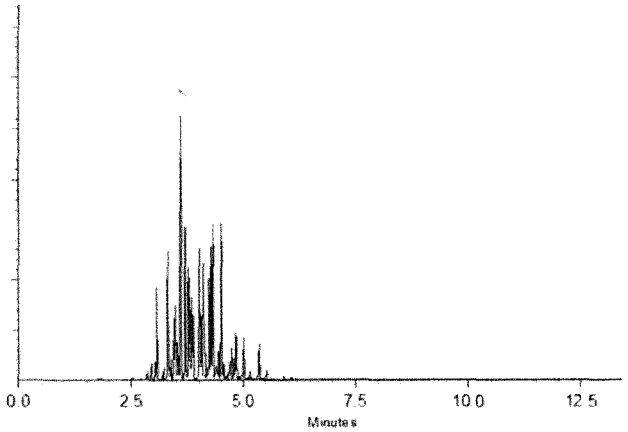
Carrier Gas:
helium-constant pressure 20 psi.

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

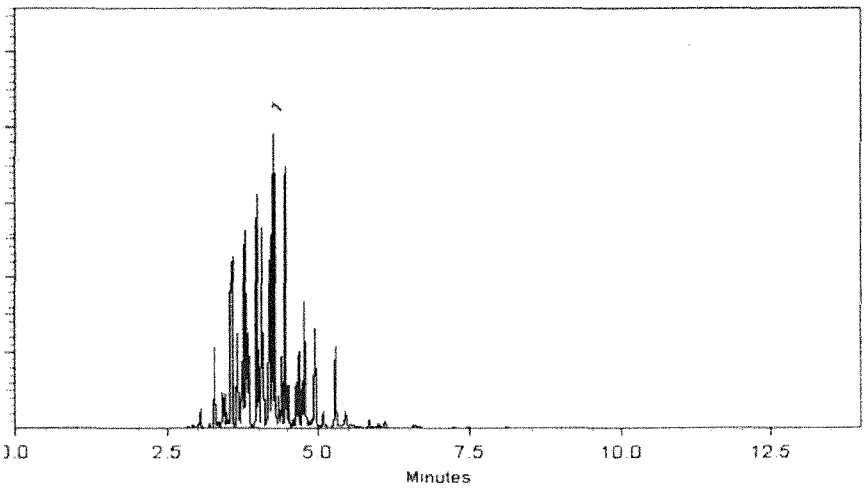
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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

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. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

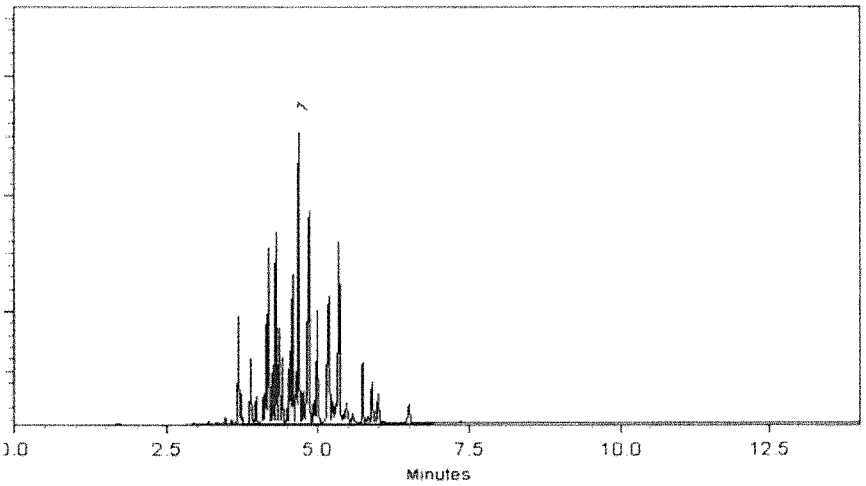
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

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

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

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

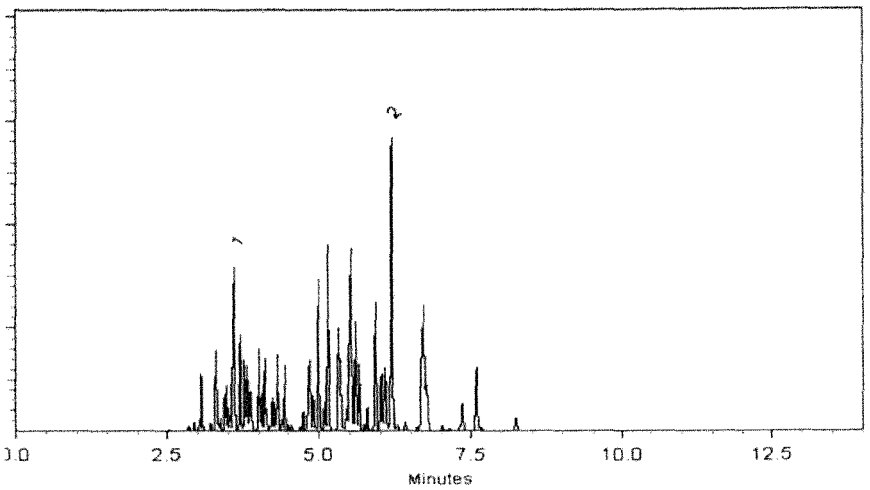
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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

o2si smart solutions®

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

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:
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.

o2si smart solutions®

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

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:
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.

o2si smart solutions®

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

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:
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.

o2si smart solutions®

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

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

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%
for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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.:** 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.

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%		+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%		+/- 8.3581	µg/mL	Stressed

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

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

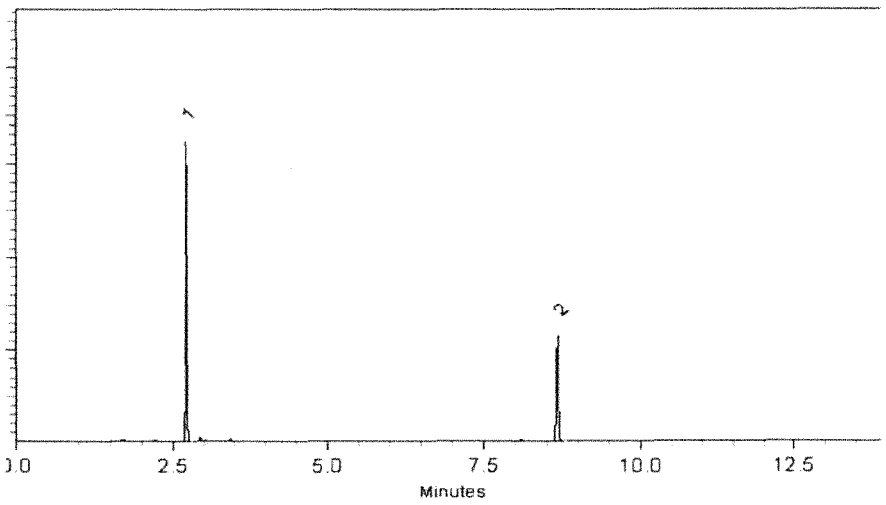
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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

o2si smart solutions®

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

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

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

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

James Ethier
Jamie Ethier
Vice President Global Quality

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

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Pesticide Surrogate Mix

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

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

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

Handling: Contains PCBs - sonicate prior to use.

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

CERTIFIED VALUES

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

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

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

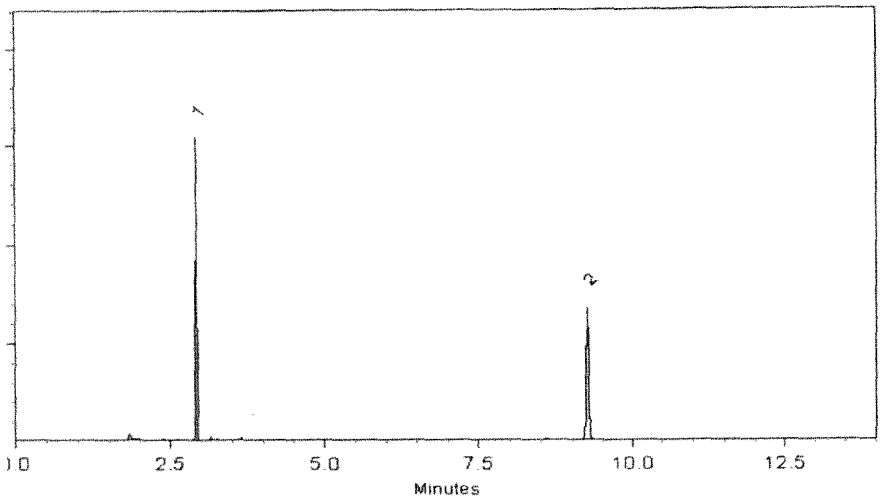
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

o2si smart solutions®

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

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

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **Page 1 of 1**

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

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

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

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

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

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

SAMPLE NO.

CS1-170518-01-STB-20

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.2		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-18

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.4		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.64		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.53		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.2		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.47		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.6		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.7		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.38		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.6		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.6		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.55		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	03/07/2018 07:13

SAMPLE NO.

CS1-170518-01-STB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.0		%	1	03/13/2018 08:59

SAMPLE NO.

CS1-170518-01-STB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150295020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.72		%	1	03/13/2018 08:59

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract : HUDSON RIVER REMEDIAL ACTON 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	1654892	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract : HUDSON RIVER REMEDIAL ACTON 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	1655713	C
Lipid									<0.030	U

SAMPLE NO.

1654895DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.4	2.5	29

SAMPLE NO.

1654896DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	2.6	1.7	39

SAMPLE NO.

1655716DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.0	2.1	36

SAMPLE NO.

1655717DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40150295 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.39	0.41	3

Prep Log Report

Batch Information: OEXT 282377 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 13:02				

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	**1654892**	Y	0.000	03/07/2018 07:13:19		10	5	1	0.9282	0.9282	M	
LIPID	BLANK	**1654893**	Y	0.01500	03/07/2018 07:13:19		10	5	1	0.9312	0.9315	M	
LIPID	RQS	**40148722009**	Y	3.408	03/07/2018 07:13:19		9.9765	5	1	0.9296	0.9976	M	
LIPID	DUP	**1654895**	Y	2.534	03/07/2018 07:13:19		9.9848	5	1	0.9316	0.9822	M	
LIPID	PS	**40150295001**	Y	4.205	03/07/2018 07:13:19		10.001	5	1	0.9314	1.0155	M	
LIPID	PS	**40150295002**	Y	1.005	03/07/2018 07:13:19		9.996	5	1	0.9307	0.9508	M	
LIPID	PS	**40150295003**	Y	2.379	03/07/2018 07:13:19		9.964	5	1	0.9327	0.9801	M	
LIPID	PS	**40150295004**	Y	0.6425	03/07/2018 07:13:19		10.0388	5	1	0.9315	0.9444	M	
LIPID	PS	**40150295005**	Y	0.5314	03/07/2018 07:13:19		9.9735	5	1	0.9336	0.9442	M	
LIPID	PS	**40150295006**	Y	2.150	03/07/2018 07:13:19		9.9767	5	1	0.9295	0.9724	M	
LIPID	PS	**40150295007**	Y	0.4657	03/07/2018 07:13:19		9.986	5	1	0.9347	0.944	M	
LIPID	PS	**40150295008**	Y	1.189	03/07/2018 07:13:19		9.9688	5	1	0.9248	0.9485	M	
LIPID	RQS	**40150295009**	Y	2.572	03/07/2018 07:13:19		10.0318	5	1	0.9275	0.9791	M	
LIPID	DUP	**1654896**	Y	1.724	03/07/2018 07:13:19		9.9773	5	1	0.9297	0.9641	M	
LIPID	PS	**40150295010**	Y	1.747	03/07/2018 07:13:19		9.9615	5	1	0.9227	0.9575	M	
LIPID	PS	**40150295011**	Y	0.3850	03/07/2018 07:13:19		10.0004	5	1	0.9292	0.9369	M	
LIPID	PS	**40150295012**	Y	3.585	03/07/2018 07:13:19		9.9732	5	1	0.9254	0.9969	M	
LIPID	PS	**40150295013**	Y	2.463	03/07/2018 07:13:19		9.9876	5	1	0.9275	0.9767	M	
LIPID	PS	**40150295014**	Y	1.542	03/07/2018 07:13:19		10.0191	5	1	0.9294	0.9603	M	

Prep Log Report

40150295

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	**40150295015**	Y	1.028	03/07/2018 07:13:19		9.9684	5	1	0.9355	0.956	M	
LIPID	PS	**40150295016**	Y	3.615	03/07/2018 07:13:19		10.0135	5	1	0.929	1.0014	M	
LIPID	PS	**40150295017**	Y	0.5493	03/07/2018 07:13:19		10.0128	5	1	0.9238	0.9348	M	
LIPID	PS	**40150295018**	Y	1.188	03/07/2018 07:13:19		9.9713	5	1	0.9257	0.9494	M	
LIPID	MS	**1682435**	Y	2.663	03/07/2018 07:13:19		9.9878	5	1	0.9367	0.9899	M	

Prep Log Report

Batch Information: OEXT 282623 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 12:46				

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	**1655713**	Y	-0.02500	03/13/2018 08:59:48		10	5	1	0.9256	0.9251	M	
LIPID	BLANK	**1655714**	Y	-0.005000	03/13/2018 08:59:48		10	5	1	0.9253	0.9252	M	
LIPID	PS	**40150295019**	Y	2.996	03/13/2018 08:59:48		10.012	5	1	0.9258	0.9858	M	
LIPID	DUP	**1655716**	Y	2.088	03/13/2018 08:59:48		10.0106	5	1	0.9241	0.9659	M	
LIPID	PS	**40150295020**	Y	0.7228	03/13/2018 08:59:48		9.9616	5	1	0.9251	0.9395	M	
LIPID	PS	**40151597002**	Y	0.6496	03/13/2018 08:59:48		10.0054	5	1	0.9272	0.9402	M	
LIPID	PS	**40151597003**	Y	0.3158	03/13/2018 08:59:48		9.9731	5	1	0.9222	0.9285	M	
LIPID	PS	**40151601002**	Y	0.3703	03/13/2018 08:59:48		9.9928	5	1	0.9241	0.9315	M	
LIPID	PS	**40151608001**	Y	0.7363	03/13/2018 08:59:48		9.9824	5	1	0.9213	0.936	M	
LIPID	PS	**40151608002**	Y	0.6200	03/13/2018 08:59:48		10.0008	5	1	0.9218	0.9342	M	
LIPID	PS	**40151608011**	Y	0.4249	03/13/2018 08:59:48		10.0021	5	1	0.9218	0.9303	M	
LIPID	PS	**40151800006**	Y	0.5787	03/13/2018 08:59:48		10.0226	5	1	0.9249	0.9365	M	
LIPID	PS	**40151800007**	Y	0.4591	03/13/2018 08:59:48		10.0192	5	1	0.9286	0.9378	M	
LIPID	PS	**40151800008**	Y	0.3457	03/13/2018 08:59:48		9.98	5	1	0.9229	0.9298	M	
LIPID	PS	**40151800009**	Y	0.3592	03/13/2018 08:59:48		10.0226	5	1	0.926	0.9332	M	
LIPID	PS	**40151800010**	Y	0.4864	03/13/2018 08:59:48		9.9707	5	1	0.9251	0.9348	M	
LIPID	PS	**40151804004**	Y	0.3344	03/13/2018 08:59:48		10.0181	5	1	0.9272	0.9339	M	
LIPID	PS	**40151804005**	Y	0.2505	03/13/2018 08:59:48		9.9782	5	1	0.9275	0.9325	M	
LIPID	PS	**40151804006**	Y	0.4104	03/13/2018 08:59:48		9.9895	5	1	0.9304	0.9386	M	

Prep Log Report

40150295

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	RQS	**40151804007**	Y	0.3937	03/13/2018 08:59:48		10.0333	5	1	0.9225	0.9304	M	
LIPID	DUP	**1655717**	Y	0.4057	03/13/2018 08:59:48		9.9824	5	1	0.9236	0.9317	M	
LIPID	PS	**40151804008**	Y	0.2902	03/13/2018 08:59:48		9.9931	5	1	0.9254	0.9312	M	
LIPID	MS	**1682460**	Y	2.962	03/13/2018 08:59:48		10.0094	5	1	.9242	0.9835	M	

40150295

Client Name: GE
Project #: 40150295
Sample Type: Fish
Date/Time Removed to Thaw: 02-21-18
Date/Time Prepped: 02-22-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
4	A	F	Y	1872.1	Y	M	413.6	Left / Both	Y	9AG	2	Y	394.4	R	HAD WRONG Label
5	A	F	Y	1947.6	Y	M	411.0	Left / Both	Y	9AG	2	Y	398.7	R	
7	A	F	Y	2157.9	Y	M	478.5	Left / Both	Y	9AG	3	Y	466.5	RM2	
10	A	F	Y	1242.1	Y	M	280.2	Left / Both	Y	9AG	2	Y	271.8	R	
11	A	F	Y	1892.8	Y	M	393.3	Left / Both	Y	9AG	2	Y	388.2	R	
13	A	F	Y	1974.0	Y	M	420.9	Left / Both	Y	9AG	3	Y	403.7	R	
15	A	F	Y	1296.0	Y	M	270.8	Left / Both	Y	9AG	2	Y	261.2	R	
18	A	F	Y	1229.2	Y	M	279.1	Left / Both	Y	9AG	2	Y	271.9	R	
20	A	F	Y	2167.7	Y	M	474.6	Left / Both	Y	9AG	3	Y	458.3	RM2	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
					CWN 02-26-18			Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-212-04AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

3/16/19
Date

40150295

Client Name: GE
Project #: 40150295
Sample Type: Fish
Date/Time Removed to Thaw: 02-22-18
Date/Time Prepped: 02-26-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
16	A	F	Y	6341.4	Y	F	1167.3	Left / Both	Y	32AG	2	Y	1120.6	RM2	
14	A	F	Y	5675.8	Y	F	1083.9	Left / Both	Y	32AG	2	Y	1051.1	RM2	
06	A	F	Y	9811.3	Y	F	1843.8	Left / Both	Y	32AG	3	Y	1802.2	RM3	
1	A	F	Y	13360.1	Y	F	2594.1	Left / Both	Y	32AG	4	Y	2522.4	RM3	
2	A	F	Y	11629.7	Y	F	1840.3	Left / Both	Y	32AG	3	Y	1777.6	RM3	
9	A	F	Y	8778.9	Y	F	1504.8	Left / Both	Y	32AG	3	Y	1452.6	RM3	
8	A	F	Y	2648.9	Y	M	568.4	Left / Both	Y	32AG	1	Y	552.2	R	
3	A	F	Y	7973.8	Y	F	1509.8	Left / Both	Y	32AG	3	Y	1445.1	RM3	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
					CWN	02-26-18		Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.
(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	
32AG	32 oz Amber Glass	J-4-338-02AB

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

Date 3/16/18

667 of 668

40150295

Client Name: GE
Project #: 40150295
Sample Type: Fish
Date/Time Removed to Thaw: CWN ~~02~~ 02-22-18
Date/Time Prepped: 02-27 02-27-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
12	A	F	Y	5634.8	Y	F	1170.6	Left / Both	Y	32AG	2	Y	1124.6	RM2	
19	A	F	Y	2967.9	Y	M CWN	~~2916~~ CWN	Left / Both	Y	32AG	1	Y	576.4	R	601.1 fillet wt
17	A	F	Y	3869.0	Y	M	750.7	Left / Both	Y	32AG	2	Y	718.3	RM2	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	~~02-27-18~~	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	
32AG	32 oz Amber Glass	J-4-338-02AB

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

Date 3/16/18