

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-89679-1

Client Project/Site: GE Tonawanda

For:

Clean Harbors Environmental Services Inc

42 Longwater Drive

Norwell, Massachusetts 02061

Attn: Chris Nelson



Authorized for release by:

10/23/2015 1:58:40 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Job ID: 480-89679-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-89679-1

Comments

No additional comments.

Receipt

The sample was received on 10/22/2015 4:05 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC Semi VOA

Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: TANK 1-SED (480-89679-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3550C: The following sample: TANK 1-SED (480-89679-1) was decanted prior to preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Client Sample ID: TANK 1-SED

Lab Sample ID: 480-89679-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	10000		980		ug/Kg	5		8082A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Client Sample ID: TANK 1-SED

Date Collected: 10/22/15 08:35

Date Received: 10/22/15 16:05

Lab Sample ID: 480-89679-1

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5
PCB-1221	ND		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5
PCB-1232	ND		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5
PCB-1242	ND		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5
PCB-1248	ND		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5
PCB-1254	ND		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5
PCB-1260	10000		980		ug/Kg		10/22/15 18:08	10/23/15 09:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		65 - 174	10/22/15 18:08	10/23/15 09:16	5
Tetrachloro-m-xylene	96		60 - 154	10/22/15 18:08	10/23/15 09:16	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		0.10		%			10/22/15 23:07	1
Percent Solids	76		0.10		%			10/22/15 23:07	1

TestAmerica Buffalo

Surrogate Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (65-174)	TCX2 (60-154)
480-89679-1	TANK 1-SED	104	96
LCS 480-270529/2-A	Lab Control Sample	113	105
MB 480-270529/1-A	Method Blank	97	92

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-270529/1-A

Matrix: Solid

Analysis Batch: 270588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 270529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1
PCB-1221	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1
PCB-1232	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1
PCB-1242	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1
PCB-1248	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1
PCB-1254	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1
PCB-1260	ND		240		ug/Kg		10/22/15 18:08	10/23/15 08:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		65 - 174	10/22/15 18:08	10/23/15 08:02	1
Tetrachloro-m-xylene	92		60 - 154	10/22/15 18:08	10/23/15 08:02	1

Lab Sample ID: LCS 480-270529/2-A

Matrix: Solid

Analysis Batch: 270588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 270529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2080	2450		ug/Kg		118	51 - 185
PCB-1260	2080	2470		ug/Kg		119	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	113		65 - 174
Tetrachloro-m-xylene	105		60 - 154

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QC Association Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

GC Semi VOA

Prep Batch: 270529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-89679-1	TANK 1-SED	Total/NA	Solid	3550C	
LCS 480-270529/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-270529/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 270588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-89679-1	TANK 1-SED	Total/NA	Solid	8082A	270529
LCS 480-270529/2-A	Lab Control Sample	Total/NA	Solid	8082A	270529
MB 480-270529/1-A	Method Blank	Total/NA	Solid	8082A	270529

General Chemistry

Analysis Batch: 270568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-89679-1	TANK 1-SED	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Client Sample ID: TANK 1-SED

Date Collected: 10/22/15 08:35

Date Received: 10/22/15 16:05

Lab Sample ID: 480-89679-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			270529	10/22/15 18:08	CAM	TAL BUF
Total/NA	Analysis	8082A		5	270588	10/23/15 09:16	JMO	TAL BUF
Total/NA	Analysis	Moisture		1	270568	10/22/15 23:07	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-89679-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-89679-1	TANK 1-SED	Solid	10/22/15 08:35	10/22/15 16:05

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Login Sample Receipt Checklist

Client: Clean Harbors Environmental Services Inc

Job Number: 480-89679-1

Login Number: 89679

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-89387-1

Job Description: GE Tonawanda

For:

AECOM Technical Services Inc.
40 British American Boulevard
Latham, NY 12110

Attention: Karen Peppin



Approved for release.
Rebecca M Jones
Project Management Assistant I
10/26/2015 1:44 PM

Designee for
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10/26/2015

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-89387-1

Receipt

The sample was received on 10/19/2015 5:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC Semi VOA

Method(s) 8082A: All primary data is reported from the ZB-35 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-89387-1	20151019 WASTEWATER	Water	10/19/2015 1505	10/19/2015 1750

EXECUTIVE SUMMARY - Detections

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-89387-1	20151019 WASTEWATER					
PCB-1254		1.3		0.47	ug/L	8082A
PCB-1260		0.96		0.47	ug/L	8082A

METHOD SUMMARY

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Method	Analyst	Analyst ID
SW846 8082A	Owen, Joshua M	JMO

Analytical Data

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Client Sample ID: 20151019 WASTEWATER

Lab Sample ID: 480-89387-1

Date Sampled: 10/19/2015 1505

Client Matrix: Water

Date Received: 10/19/2015 1750

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-270055	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-269887	Initial Weight/Volume:	267.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	10/21/2015 1236			Injection Volume:	1 uL
Prep Date:	10/20/2015 1429			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.16	0.47
PCB-1221	ND		0.16	0.47
PCB-1232	ND		0.16	0.47
PCB-1242	ND		0.16	0.47
PCB-1248	ND		0.16	0.47
PCB-1254	1.3		0.23	0.47
PCB-1260	0.96		0.23	0.47

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	56		24 - 137
DCB Decachlorobiphenyl	23		19 - 125

Analytical Data

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Client Sample ID: 20151019 WASTEWATER

Lab Sample ID: 480-89387-1

Date Sampled: 10/19/2015 1505

Client Matrix: Water

Date Received: 10/19/2015 1750

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-270055	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-269887	Initial Weight/Volume:	267.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	10/21/2015 1236			Injection Volume:	1 uL
Prep Date:	10/20/2015 1429			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	72		24 - 137
DCB Decachlorobiphenyl	29		19 - 125

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-89387-1	20151019 WASTEWATER	56	72	23	29
MB 480-269887/1-A		77	92	45	49
LCS 480-269887/2-A		83	95	46	64

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	24-137
DCB = DCB Decachlorobiphenyl	19-125

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Method Blank - Batch: 480-269887

Method: 8082A Preparation: 3510C

Lab Sample ID:	MB 480-269887/1-A	Analysis Batch:	480-270055	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-269887	Lab File ID:	7_387_006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	10/21/2015 1013	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/20/2015 1429			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		0.18	0.50
PCB-1221	ND		0.18	0.50
PCB-1232	ND		0.18	0.50
PCB-1242	ND		0.18	0.50
PCB-1248	ND		0.18	0.50
PCB-1254	ND		0.25	0.50
PCB-1260	ND		0.25	0.50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	77	24 - 137
DCB Decachlorobiphenyl	45	19 - 125

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	92	24 - 137
DCB Decachlorobiphenyl	49	19 - 125

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Lab Control Sample - Batch: 480-269887

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 480-269887/2-A	Analysis Batch:	480-270055	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-269887	Lab File ID:	7_387_007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	10/21/2015 1029	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/20/2015 1429			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	4.00	3.55	89	62 - 130	
PCB-1260	4.00	3.33	83	56 - 123	
Surrogate	% Rec		Acceptance Limits		
Tetrachloro-m-xylene	83		24 - 137		
DCB Decachlorobiphenyl	46		19 - 125		

Lab Control Sample - Batch: 480-269887

Method: 8082A
Preparation: 3510C

Lab Sample ID:	LCS 480-269887/2-A	Analysis Batch:	480-270055	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-269887	Lab File ID:	7_387_007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	10/21/2015 1029	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/20/2015 1429			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	4.00	4.88	122	62 - 130	
PCB-1260	4.00	4.12	103	56 - 123	
Surrogate	% Rec		Acceptance Limits		
Tetrachloro-m-xylene	95		24 - 137		
DCB Decachlorobiphenyl	64		19 - 125		

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
-------------	-----------	-------------

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-269887					
LCS 480-269887/2-A	Lab Control Sample	T	Water	3510C	
MB 480-269887/1-A	Method Blank	T	Water	3510C	
480-89387-1	20151019 WASTEWATER	T	Water	3510C	
Analysis Batch:480-270055					
LCS 480-269887/2-A	Lab Control Sample	T	Water	8082A	480-269887
MB 480-269887/1-A	Method Blank	T	Water	8082A	480-269887
480-89387-1	20151019 WASTEWATER	T	Water	8082A	480-269887

Report Basis

T = Total

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Laboratory Chronicle

Lab ID: 480-89387-1

Client ID: 20151019 WASTEWATER

Sample Date/Time: 10/19/2015 15:05 Received Date/Time: 10/19/2015 17:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-89387-B-1-A		480-270055	480-269887	10/20/2015 14:29	1	TAL BUF	CPH
A:8082A	480-89387-B-1-A		480-270055	480-269887	10/21/2015 12:36	1	TAL BUF	JMO

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	MB 480-269887/1-A		480-270055	480-269887	10/20/2015 14:29	1	TAL BUF	CPH
A:8082A	MB 480-269887/1-A		480-270055	480-269887	10/21/2015 10:13	1	TAL BUF	JMO

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	LCS 480-269887/2-A		480-270055	480-269887	10/20/2015 14:29	1	TAL BUF	CPH
A:8082A	LCS 480-269887/2-A		480-270055	480-269887	10/21/2015 10:29	1	TAL BUF	JMO

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8082A

Polychlorinated Biphenyls (PCBs)
(GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-5 ID: 0.53 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
20151019 WASTEWATER	480-89387-1	56	72	23	29
	MB 480-269887/1-A	77	92	45	49
	LCS 480-269887/2-A	83	95	46	64

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC LIMITS
24-137
19-125

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 7_387_007.D

Lab ID: LCS 480-269887/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.55	89	62-130	
PCB-1016	4.00	4.88	122	62-130	
PCB-1260	4.00	3.33	83	56-123	
PCB-1260	4.00	4.12	103	56-123	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
SDG No.: _____
Lab Sample ID: MB 480-269887/1-A
Matrix: Water Date Extracted: 10/20/2015 14:29
Lab File ID: (1) 7_387_006.D Lab File ID: (2) 7_387_006.D
Date Analyzed: (1) 10/21/2015 10:13 Date Analyzed: (2) 10/21/2015 10:13
Instrument ID: (1) HP6890-7 Instrument ID: (2) HP6890-7
GC Column: (1) ZB-5 ID: 0.53 (mm) GC Column: (2) ZB-35 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-269887/2-A	10/21/2015 10:29	10/21/2015 10:29
20151019 WASTEWATER	480-89387-1	10/21/2015 12:36	10/21/2015 12:36

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Client Sample ID: 20151019 WASTEWATER Lab Sample ID: 480-89387-1
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 10/21/2015 12:36 Date Analyzed (2): 10/21/2015 12:36
 GC Column (1): ZB-5 ID: 0.53 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	3.99	3.96	4.02	1.05	1.3	26.8
		2	4.29	4.26	4.32	1.18		
		3	4.48	4.46	4.52	1.40		
		4	4.89	4.86	4.92	1.76		
	2	1	3.61	3.59	3.65	1.57	1.8	
		2	4.01	3.97	4.03	1.84		
		3	4.14	4.11	4.17	2.01		
		4	4.57	4.54	4.60	1.64		
PCB-1260	1	1	4.66	4.63	4.69	1.03	0.96	13.7
		2	4.89	4.86	4.92	1.37		
		3	5.41	5.38	5.44	0.701		
		4	5.66	5.63	5.69	0.751		
	2	1	4.25	4.22	4.28	1.60	1.1	
		2	4.54	4.51	4.57	0.964		
		3	5.02	4.99	5.05	0.986		
		4	5.35	5.32	5.38	0.872		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-269887/2-A
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 10/21/2015 10:29 Date Analyzed (2): 10/21/2015 10:29
 GC Column (1): ZB-5 ID: 0.53 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.02	2.99	3.05	3.62	3.55	31.5
		2	3.17	3.14	3.20	3.57		
		3	3.46	3.43	3.49	3.49		
		4	3.56	3.53	3.59	3.52		
	2	1	2.41	2.38	2.44	4.72	4.88	
		2	2.57	2.54	2.60	4.57		
		3	2.72	2.69	2.75	5.25		
		4	2.83	2.80	2.86	4.98		
PCB-1260	1	1	4.66	4.63	4.69	3.45	3.33	21.3
		2	4.89	4.86	4.92	4.15		
		3	5.41	5.38	5.44	2.72		
		4	5.66	5.63	5.69	2.99		
	2	1	4.25	4.22	4.28	5.38	4.12	
		2	4.54	4.51	4.57	3.19		
		3	5.02	4.99	5.05	4.10		
		4	5.35	5.32	5.38	3.83		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-89387-1</u>
SDG No.: _____	
Client Sample ID: <u>20151019 WASTEWATER</u>	Lab Sample ID: <u>480-89387-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>7_387_015.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/19/2015 15:05</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>10/20/2015 14:29</u>
Sample wt/vol: <u>267.8(mL)</u>	Date Analyzed: <u>10/21/2015 12:36</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-5</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>270055</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.47	0.16
11104-28-2	PCB-1221	ND		0.47	0.16
11141-16-5	PCB-1232	ND		0.47	0.16
53469-21-9	PCB-1242	ND		0.47	0.16
12672-29-6	PCB-1248	ND		0.47	0.16
11097-69-1	PCB-1254	1.3		0.47	0.23
11096-82-5	PCB-1260	0.96		0.47	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	56		24-137
2051-24-3	DCB Decachlorobiphenyl	23		19-125

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_015.D
 Lims ID: 480-89387-B-1-A Lab Sample ID: 480-89387-1
 Client ID: 20151019 WASTEWATER
 Sample Type: Client
 Inject. Date: 21-Oct-2015 12:36:46 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 14:25:50 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 14:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.075	2.077	-0.002	445191	0.0112
2	1.688	1.689	-0.001	492493	0.0144

RPD = 24.78

8 PCB-1254

1	3.986	3.986	0.000	246920	0.1412
1	4.286	4.288	-0.002	319395	0.1574
1	4.483	4.488	-0.006	381039	0.1869
1	4.889	4.891	-0.002	382499	0.2361

Average of Peak Amounts = 0.1804

2	3.614	3.616	-0.002	249695	0.2108
2	4.005	4.004	0.001	443208	0.2459
2	4.138	4.136	0.002	478993	0.2694
2	4.570	4.573	-0.003	327664	0.2192

Average of Peak Amounts = 0.2363

RPD = 26.84

9 PCB-1260

1	4.659	4.658	0.001	236080	0.1383
1	4.889	4.888	0.001	382499	0.1829
1	5.409	5.411	-0.002	266656	0.0939
1	5.662	5.660	0.002	136415	0.1005

Average of Peak Amounts = 0.1289

2	4.253	4.253	0.000	302855	0.2137
2	4.543	4.540	0.002	153397	0.1291
2	5.018	5.018	0.000	344225	0.1321
2	5.353	5.353	0.001	179928	0.1168

Average of Peak Amounts = 0.1479

RPD = 13.75

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_015.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.100	7.097	0.003	117659	0.004557
2	6.449	6.448	0.001	126706	0.005783

RPD = 23.72

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP6890-07\\20151021-47502.b\\7_387_015.D

Injection Date: 21-Oct-2015 12:36:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-89387-B-1-A

Lab Sample ID: 480-89387-1

Worklist Smp#: 15

Client ID: 20151019 WASTEWATER

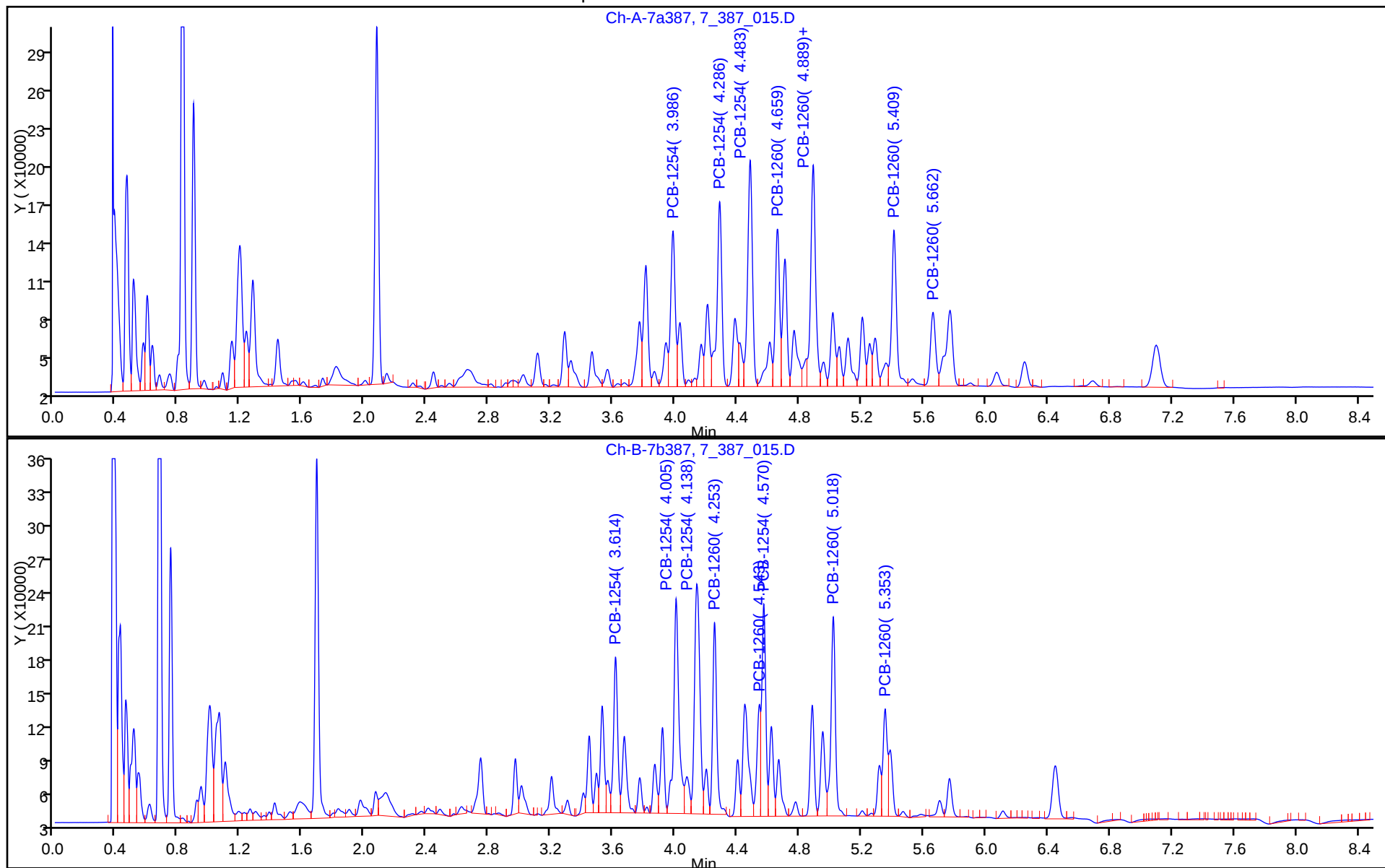
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-89387-1</u>
SDG No.: _____	
Client Sample ID: <u>20151019 WASTEWATER</u>	Lab Sample ID: <u>480-89387-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>7_387_015.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/19/2015 15:05</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>10/20/2015 14:29</u>
Sample wt/vol: <u>267.8(mL)</u>	Date Analyzed: <u>10/21/2015 12:36</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>270055</u>	Units: <u>ug/L</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	72		24-137
2051-24-3	DCB Decachlorobiphenyl	29		19-125

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_015.D
 Lims ID: 480-89387-B-1-A Lab Sample ID: 480-89387-1
 Client ID: 20151019 WASTEWATER
 Sample Type: Client
 Inject. Date: 21-Oct-2015 12:36:46 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 14:25:50 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 14:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.075	2.077	-0.002	445191	0.0112	
2	1.688	1.689	-0.001	492493	0.0144	
RPD = 24.78						

8 PCB-1254

1	3.986	3.986	0.000	246920	0.1412	
1	4.286	4.288	-0.002	319395	0.1574	
1	4.483	4.488	-0.006	381039	0.1869	
1	4.889	4.891	-0.002	382499	0.2361	
Average of Peak Amounts =					0.1804	
2	3.614	3.616	-0.002	249695	0.2108	
2	4.005	4.004	0.001	443208	0.2459	
2	4.138	4.136	0.002	478993	0.2694	
2	4.570	4.573	-0.003	327664	0.2192	
Average of Peak Amounts =					0.2363	
RPD = 26.84						

9 PCB-1260

1	4.659	4.658	0.001	236080	0.1383	
1	4.889	4.888	0.001	382499	0.1829	
1	5.409	5.411	-0.002	266656	0.0939	
1	5.662	5.660	0.002	136415	0.1005	
Average of Peak Amounts =					0.1289	
2	4.253	4.253	0.000	302855	0.2137	
2	4.543	4.540	0.002	153397	0.1291	
2	5.018	5.018	0.000	344225	0.1321	
2	5.353	5.353	0.001	179928	0.1168	
Average of Peak Amounts =					0.1479	
RPD = 13.75						

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_015.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.100	7.097	0.003	117659	0.004557
2	6.449	6.448	0.001	126706	0.005783

RPD = 23.72

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_015.D

Injection Date: 21-Oct-2015 12:36:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-89387-B-1-A

Lab Sample ID: 480-89387-1

Worklist Smp#: 15

Client ID: 20151019 WASTEWATER

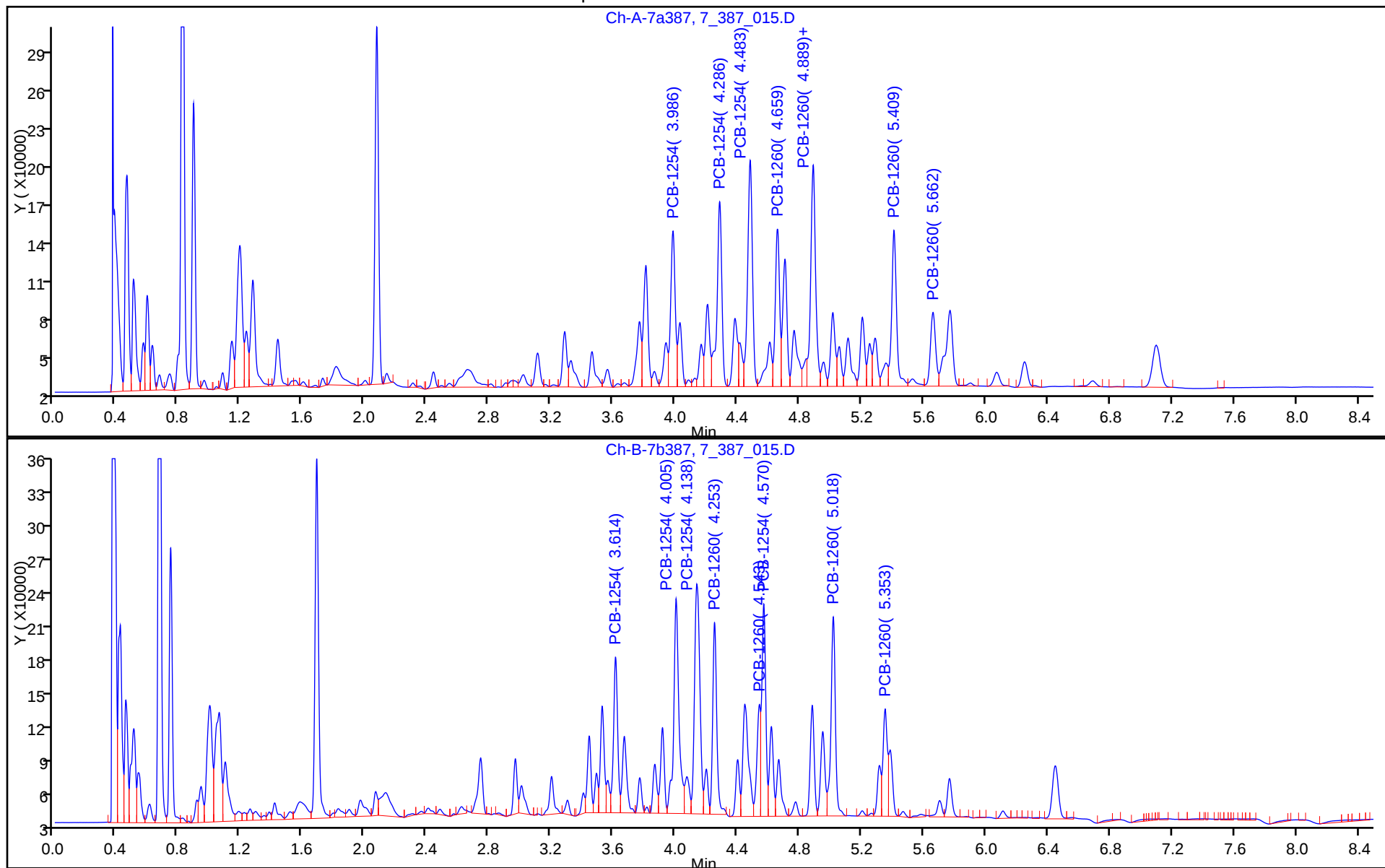
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 21:01 Calibration End Date: 08/06/2015 22:36 Calibration ID: 24457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/8	7_379_248.D
Level 2	STD2 480-257541/7	7_379_247.D
Level 3	STD3 480-257541/6	7_379_246.D
Level 4	STD4 480-257541/5	7_379_245.D
Level 5	STD5 480-257541/4	7_379_244.D
Level 6	STD6 480-257541/3	7_379_243.D
Level 7	STD7 480-257541/2	7_379_242.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	3.055	3.057	3.055	3.056	3.056	3.055	3.055				3.025 - 3.085	3.056
PCB-1016 Peak 2	3.203	3.204	3.204	3.203	3.204	3.204	3.203				3.173 - 3.233	3.204
PCB-1016 Peak 3	3.502	3.501	3.503	3.502	3.502	3.502	3.501				3.472 - 3.532	3.502
PCB-1016 Peak 4	3.603	3.603	3.603	3.603	3.603	3.603	3.603				3.573 - 3.633	3.603
PCB-1260 Peak 1	4.701	4.701	4.702	4.702	4.701	4.702	4.701				4.671 - 4.731	4.701
PCB-1260 Peak 2	4.930	4.933	4.933	4.932	4.933	4.932	4.930				4.900 - 4.960	4.932
PCB-1260 Peak 3	5.454	5.455	5.455	5.455	5.456	5.456	5.456				5.424 - 5.484	5.455
PCB-1260 Peak 4	5.712	5.712	5.714	5.713	5.713	5.713	5.713				5.682 - 5.742	5.713
Tetrachloro-m-xylene	2.105	2.106	2.105	2.105	2.105	2.106	2.106				2.075 - 2.135	2.105
DCB Decachlorobiphenyl	7.188	7.187	7.186	7.188	7.188	7.188	7.185				7.128 - 7.248	7.187

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 21:01 Calibration End Date: 08/06/2015 22:36 Calibration ID: 24457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/8	7_379_248.D
Level 2	STD2 480-257541/7	7_379_247.D
Level 3	STD3 480-257541/6	7_379_246.D
Level 4	STD4 480-257541/5	7_379_245.D
Level 5	STD5 480-257541/4	7_379_244.D
Level 6	STD6 480-257541/3	7_379_243.D
Level 7	STD7 480-257541/2	7_379_242.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	3034800 2614724	2908740 2492796	2708680 2473379	2723940	Ave		2708151.21				7.6		20.0			
PCB-1016 Peak 2	802350 669480	765240 638016	698320 642592	698835	Ave		702118.929				8.8		20.0			
PCB-1016 Peak 3	950450 760916	913000 716796	815780 732604	811150	Ave		814385.143				10.9		20.0			
PCB-1016 Peak 4	1074350 869302	1017500 826524	905330 833857	906180	Ave		919006.143				10.2		20.0			
PCB-1260 Peak 1	1871200 1629080	1877560 1573201	1712170 1585444	1701655	Ave		1707187.07				7.4		20.0			
PCB-1260 Peak 2	2291200 1977356	2261920 1925397	2084810 2050023	2050930	Ave		2091662.29				6.6		20.0			
PCB-1260 Peak 3	3190200 2727978	3005960 2623130	2828250 2684964	2822445	Ave		2840418.07				7.0		20.0			
PCB-1260 Peak 4	1543350 1278492	1471760 1224568	1379290 1260695	1342040	Ave		1357170.64				8.6		20.0			
Tetrachloro-m-xylene	43568000 38419520	42118400 37118880	39929600 37107860	39968400	Ave		39747237.1				6.2		20.0			
DCB Decachlorobiphenyl	30808000 23218080	29900800 21605040	27676000 21516780	26026800	Ave		25821642.9				14.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 21:01 Calibration End Date: 08/06/2015 22:36 Calibration ID: 24457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/8	7_379_248.D
Level 2	STD2 480-257541/7	7_379_247.D
Level 3	STD3 480-257541/6	7_379_246.D
Level 4	STD4 480-257541/5	7_379_245.D
Level 5	STD5 480-257541/4	7_379_244.D
Level 6	STD6 480-257541/3	7_379_243.D
Level 7	STD7 480-257541/2	7_379_242.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	60696 2492796	145437 4946757	270868	544788	1307362	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	16047 638016	38262 1285183	69832	139767	334740	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	19009 716796	45650 1465208	81578	162230	380458	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	21487 826524	50875 1667714	90533	181236	434651	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	37424 1573201	93878 3170887	171217	340331	814540	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	45824 1925397	113096 4100046	208481	410186	988678	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	63804 2623130	150298 5369927	282825	564489	1363989	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	30867 1224568	73588 2521389	137929	268408	639246	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	21784 927972	52648 1855393	99824	199842	480244	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	15404 540126	37376 1075839	69190	130134	290226	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 06-Aug-2015 21:01:14 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:23:54 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 08:30:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.106	2.105	0.001	1855393	0.0500	0.0467	a
2	1.720	1.719	0.001	1718804	0.0500	0.0501	a
						RPD = 7.16	

6 PCB-1016

1	3.055	3.055	0.000	4946757	2.00	1.83	a
1	3.203	3.203	-0.001	1285183	2.00	1.83	a
1	3.501	3.502	-0.001	1465208	2.00	1.80	a
1	3.603	3.603	0.001	1667714	2.00	1.81	a
Average of Peak Amounts =						1.82	
2	2.444	2.443	0.001	2083755	2.00	1.78	
2	2.608	2.606	0.002	619504	2.00	1.81	
2	2.758	2.756	0.002	4432395	2.00	1.92	
2	2.873	2.872	0.001	1622544	2.00	1.87	
Average of Peak Amounts =						1.84	
						RPD = 1.47	

9 PCB-1260

1	4.701	4.701	0.000	3170887	2.00	1.86	a
1	4.930	4.930	0.000	4100046	2.00	1.96	a
1	5.456	5.454	0.002	5369927	2.00	1.89	
1	5.713	5.712	0.000	2521389	2.00	1.86	
Average of Peak Amounts =						1.89	
2	4.301	4.299	0.002	2734174	2.00	1.93	a
2	4.620	4.619	0.001	2386509	2.00	2.01	a
2	5.068	5.068	0.000	5335193	2.00	2.05	M
2	5.403	5.404	-0.001	3148483	2.00	2.04	
Average of Peak Amounts =						2.01	
						RPD = 5.93	

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.185	7.188	-0.003	1075839	0.0500	0.0417	a
2	6.534	6.536	-0.002	1006235	0.0500	0.0459	a

RPD = 9.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D

Injection Date: 06-Aug-2015 21:01:14

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 2

Client ID:

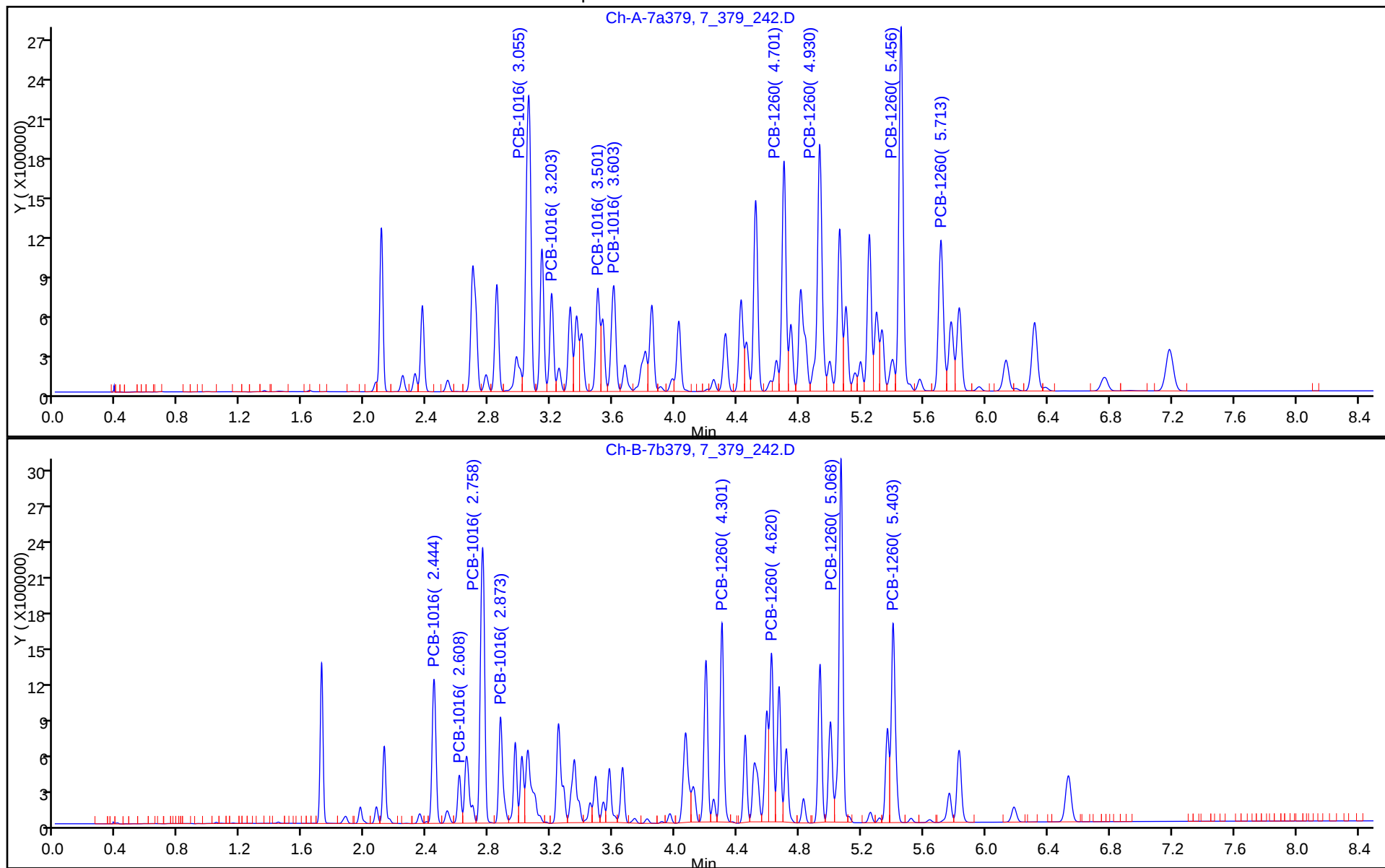
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 06-Aug-2015 21:17:13 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:23:57 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 08:52:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.106	2.105	0.001	927972	0.0250	0.0233	a
2	1.720	1.719	0.001	791403	0.0250	0.0231	a
						RPD = 1.11	

6 PCB-1016

1	3.055	3.055	0.000	2492796	1.00	0.9205	a
1	3.204	3.203	0.001	638016	1.00	0.9087	a
1	3.502	3.502	0.000	716796	1.00	0.8802	a
1	3.603	3.603	0.001	826524	1.00	0.8994	a
Average of Peak Amounts =						0.9022	
2	2.444	2.443	0.001	1051595	1.00	0.8979	
2	2.607	2.606	0.001	309113	1.00	0.9039	
2	2.757	2.756	0.001	2173703	1.00	0.9400	
2	2.873	2.872	0.000	804442	1.00	0.9277	
Average of Peak Amounts =						0.9174	
						RPD = 1.67	

9 PCB-1260

1	4.702	4.701	0.001	1573201	1.00	0.9215	a
1	4.932	4.930	0.002	1925397	1.00	0.9205	a
1	5.456	5.454	0.002	2623130	1.00	0.9235	
1	5.713	5.712	0.001	1224568	1.00	0.9023	
Average of Peak Amounts =						0.9170	
2	4.299	4.299	0.000	1323043	1.00	0.9336	a
2	4.619	4.619	0.000	1145122	1.00	0.9636	a
2	5.068	5.068	0.000	2523841	1.00	0.9684	M
2	5.404	5.404	0.000	1483428	1.00	0.9628	
Average of Peak Amounts =						0.9571	
						RPD = 4.28	

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.188	7.188	0.000	540126	0.0250	0.0209	a
2	6.533	6.536	-0.004	495190	0.0250	0.0226	a

RPD = 7.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 500.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D

Injection Date: 06-Aug-2015 21:17:13

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 3

Client ID:

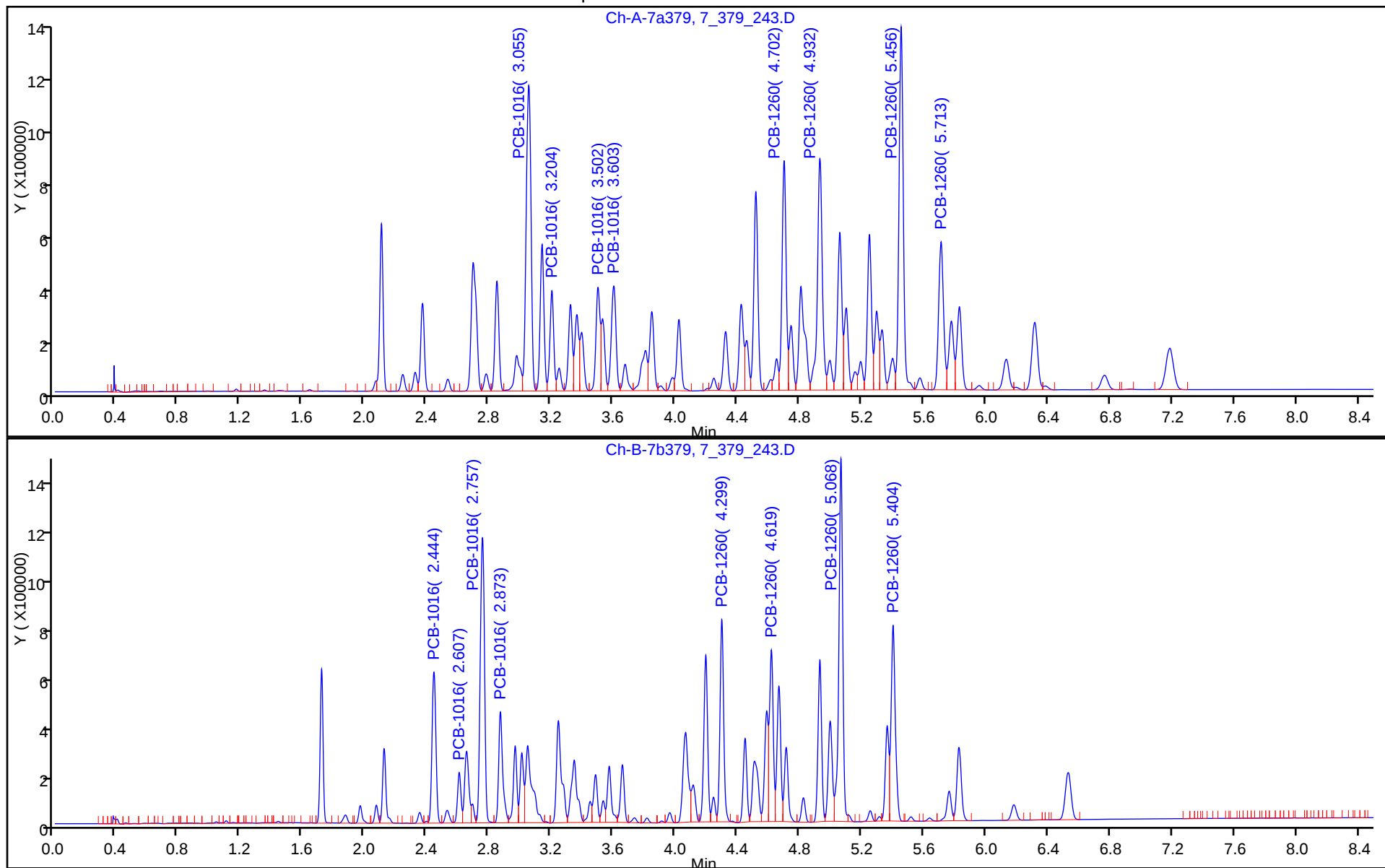
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 06-Aug-2015 21:33:04 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:00 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 09:05:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M
 1 2.105 2.105 0.000 480244 0.0125 0.0121 M
 2 1.720 1.719 0.001 400096 0.0125 0.0117 a
 RPD = 3.45

6 PCB-1016
 1 3.056 3.055 0.001 1307362 0.5000 0.4828 a
 1 3.204 3.203 0.001 334740 0.5000 0.4768 a
 1 3.502 3.502 0.000 380458 0.5000 0.4672 a
 1 3.603 3.603 0.001 434651 0.5000 0.4730 a
 Average of Peak Amounts = 0.4749
 2 2.443 2.443 0.000 552493 0.5000 0.4717
 2 2.607 2.606 0.001 161903 0.5000 0.4734
 2 2.757 2.756 0.001 1115805 0.5000 0.4825
 2 2.873 2.872 0.000 416827 0.5000 0.4807
 Average of Peak Amounts = 0.4771
 RPD = 0.46

9 PCB-1260 M
 1 4.701 4.701 0.000 814540 0.5000 0.4771 a
 1 4.933 4.930 0.002 988678 0.5000 0.4727 a
 1 5.456 5.454 0.002 1363989 0.5000 0.4802
 1 5.713 5.712 0.000 639246 0.5000 0.4710
 Average of Peak Amounts = 0.4753
 2 4.300 4.299 0.001 685131 0.5000 0.4834 M
 2 4.620 4.619 0.001 575475 0.5000 0.4843 M
 2 5.068 5.068 0.000 1272526 0.5000 0.4883 M
 2 5.403 5.404 -0.001 743105 0.5000 0.4823
 Average of Peak Amounts = 0.4846
 RPD = 1.94

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.188	7.188	0.000	290226	0.0125	0.0112	a
2	6.534	6.536	-0.002	263600	0.0125	0.0120	a

RPD = 6.80

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Injection Date: 06-Aug-2015 21:33:04

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 4

Client ID:

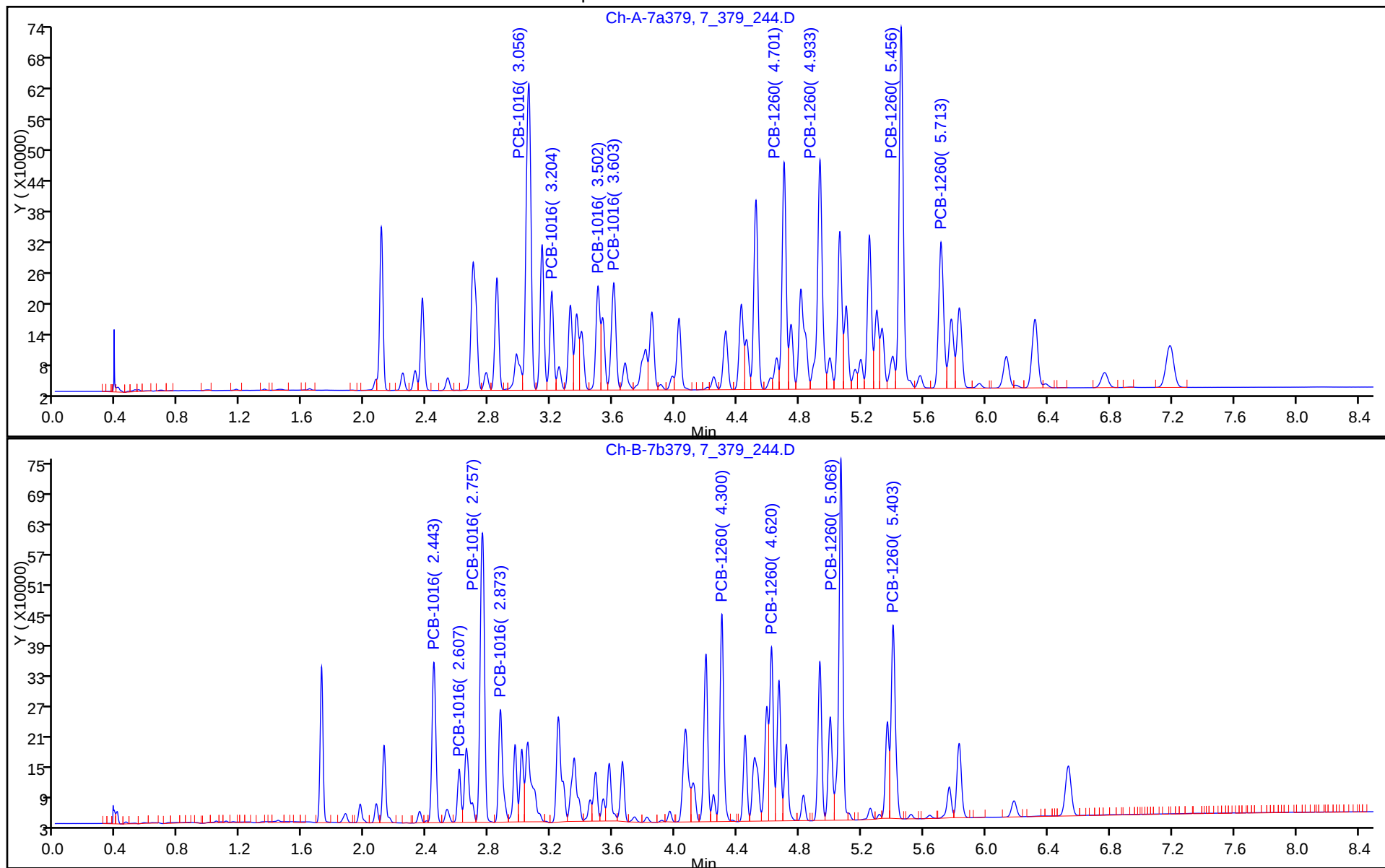
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Injection Date: 06-Aug-2015 21:33:04

Instrument ID: HP6890-7

Lims ID: STD5

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

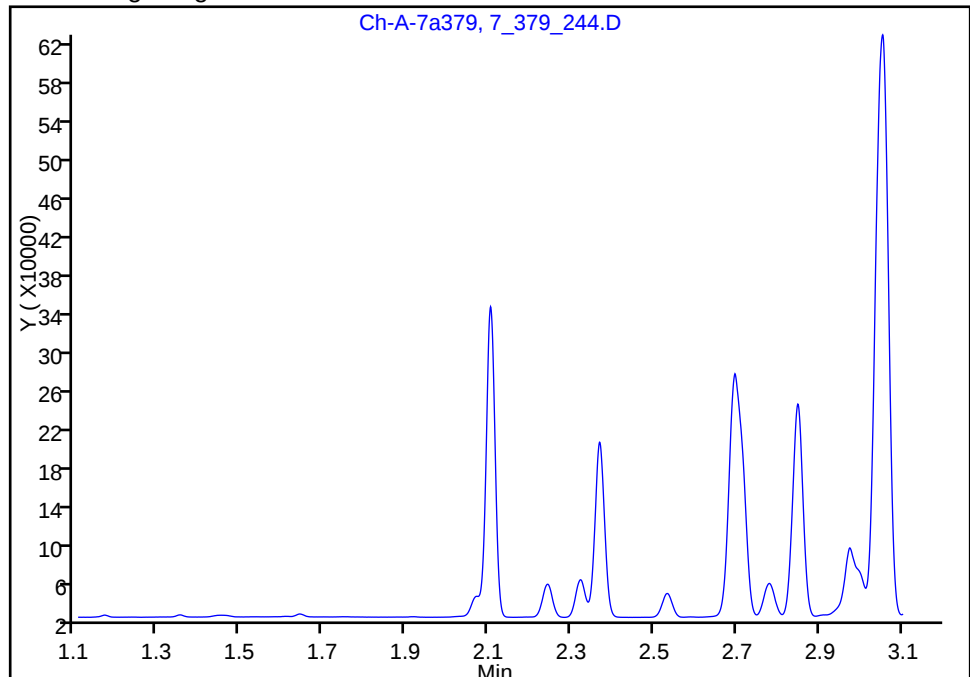
Detector Ch-A-7A136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

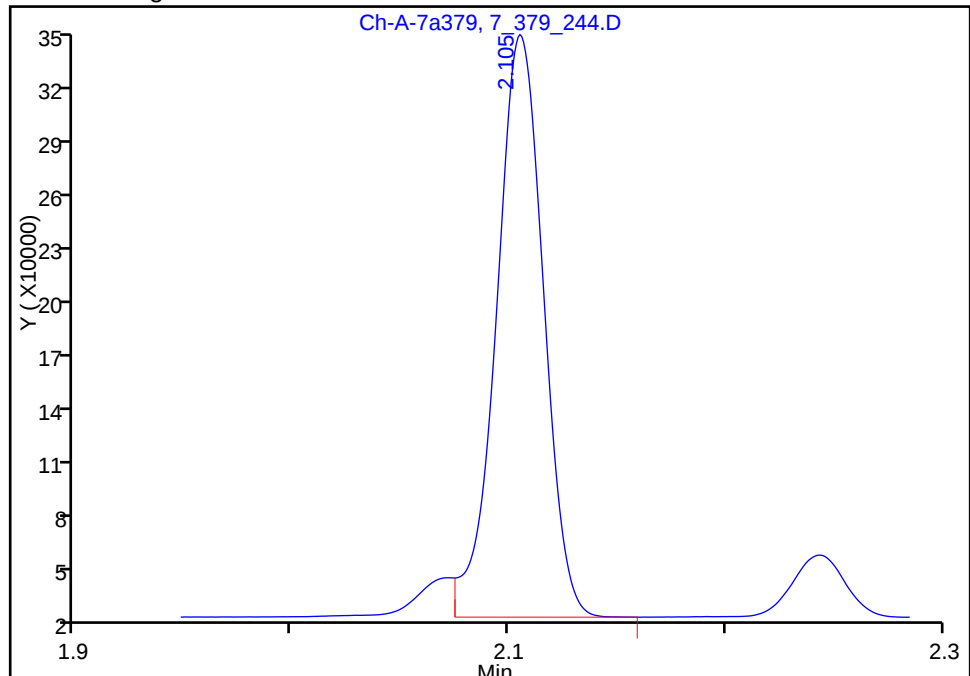
Not Detected

Expected RT: 2.11

Processing Integration Results



Manual Integration Results



RT: 2.11

Area: 480244

Amount: 0.012082

Amount Units: ng/uL

Reviewer: larsonj, 07-Aug-2015 11:12:30

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 06-Aug-2015 21:48:54 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:04 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 08:46:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.105	2.105	0.000	199842	0.005000	0.005028	a
2	1.720	1.719	0.001	166565	0.005000	0.004860	a
RPD = 3.40							

6 PCB-1016

1	3.056	3.055	0.001	544788	0.2000	0.2012	a
1	3.203	3.203	0.000	139767	0.2000	0.1991	a
1	3.502	3.502	0.000	162230	0.2000	0.1992	a
1	3.603	3.603	0.001	181236	0.2000	0.1972	a
Average of Peak Amounts =							0.1992
2	2.443	2.443	0.000	238608	0.2000	0.2037	M
2	2.607	2.606	0.001	70841	0.2000	0.2071	M
2	2.757	2.756	0.001	462350	0.2000	0.1999	M
2	2.873	2.872	0.000	173942	0.2000	0.2006	
Average of Peak Amounts =							0.2029
RPD = 1.84							

9 PCB-1260

1	4.702	4.701	0.001	340331	0.2000	0.1994	a
1	4.932	4.930	0.002	410186	0.2000	0.1961	a
1	5.455	5.454	0.001	564489	0.2000	0.1987	
1	5.713	5.712	0.000	268408	0.2000	0.1978	
Average of Peak Amounts =							0.1980
2	4.300	4.299	0.001	284542	0.2000	0.2008	M
2	4.620	4.619	0.001	237367	0.2000	0.1997	M
2	5.068	5.068	0.000	515303	0.2000	0.1977	M
2	5.404	5.404	0.000	304726	0.2000	0.1978	M
Average of Peak Amounts =							0.1990
RPD = 0.51							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.188	7.188	0.000	130134	0.005000	0.005040	a
2	6.532	6.536	-0.004	110368	0.005000	0.005037	a

RPD = 0.05

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 100.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D

Injection Date: 06-Aug-2015 21:48:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 5

Client ID:

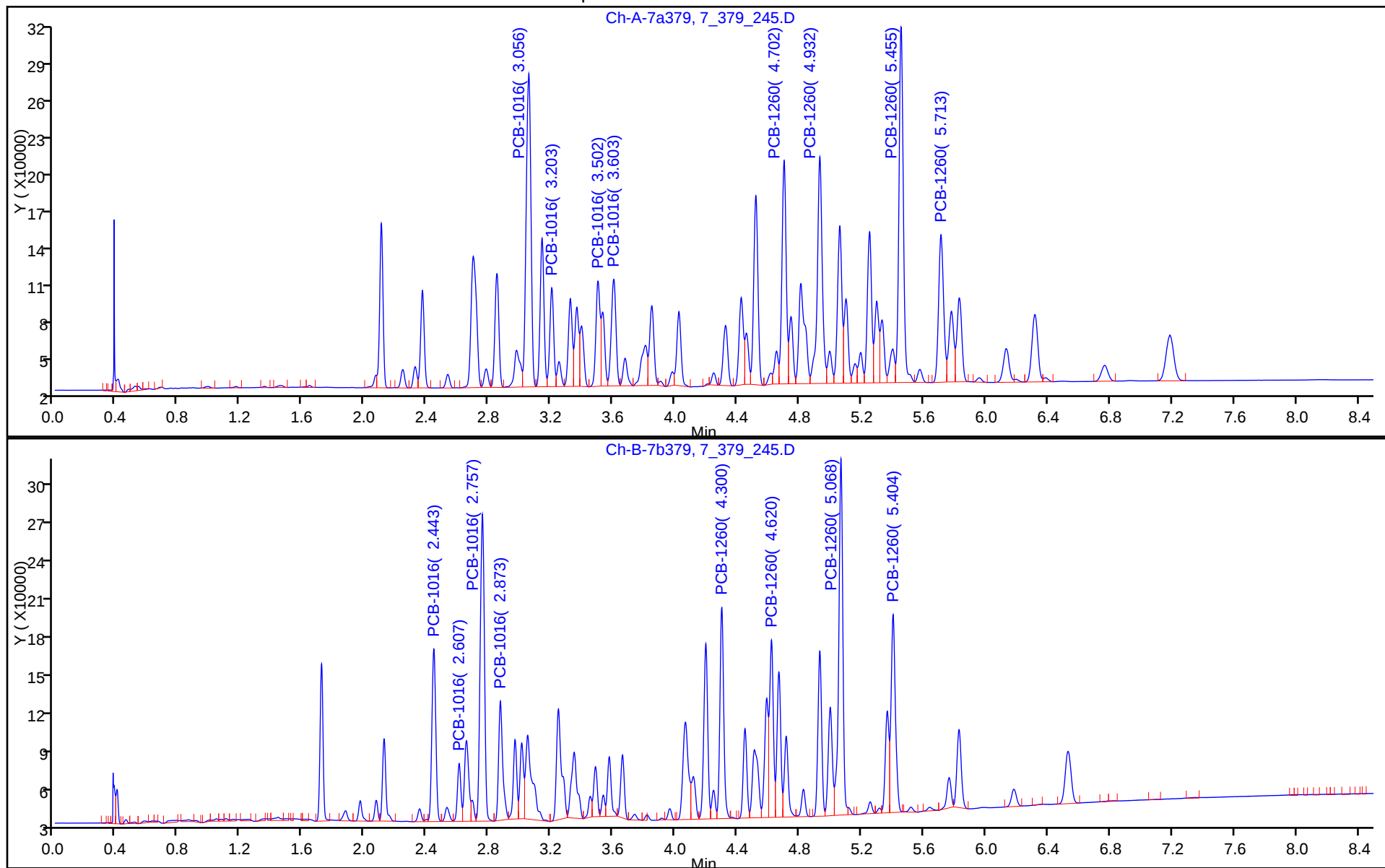
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 06-Aug-2015 22:05:01 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:07 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 09:10:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.105	2.105	0.000	99824	0.002500	0.002511	a
2	1.719	1.719	0.000	84048	0.002500	0.002452	a

RPD = 2.39

6 PCB-1016

1	3.055	3.055	0.000	270868	0.1000	0.1000	a
1	3.204	3.203	0.001	69832	0.1000	0.0995	a
1	3.503	3.502	0.000	81578	0.1000	0.1002	a
1	3.603	3.603	0.001	90533	0.1000	0.0985	a
Average of Peak Amounts =						0.0995	
2	2.443	2.443	0.000	120670	0.1000	0.1030	
2	2.608	2.606	0.002	34790	0.1000	0.1017	
2	2.756	2.756	0.000	230332	0.1000	0.0996	
2	2.873	2.872	0.000	89356	0.1000	0.1031	
Average of Peak Amounts =						0.1019	

RPD = 2.30

9 PCB-1260

1	4.702	4.701	0.001	171217	0.1000	0.1003	a
1	4.933	4.930	0.002	208481	0.1000	0.0997	a
1	5.455	5.454	0.001	282825	0.1000	0.0996	
1	5.714	5.712	0.002	137929	0.1000	0.1016	
Average of Peak Amounts =						0.1003	
2	4.299	4.299	0.000	142576	0.1000	0.1006	M
2	4.619	4.619	0.000	121341	0.1000	0.1021	M
2	5.068	5.068	0.000	252341	0.1000	0.0968	M
2	5.404	5.404	0.000	153845	0.1000	0.0999	
Average of Peak Amounts =						0.0998	

RPD = 0.44

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.186	7.188	-0.002	69190	0.002500	0.002680	a
2	6.532	6.536	-0.004	58269	0.002500	0.002659	a

RPD = 0.75

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 50.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D

Injection Date: 06-Aug-2015 22:05:01

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 6

Client ID:

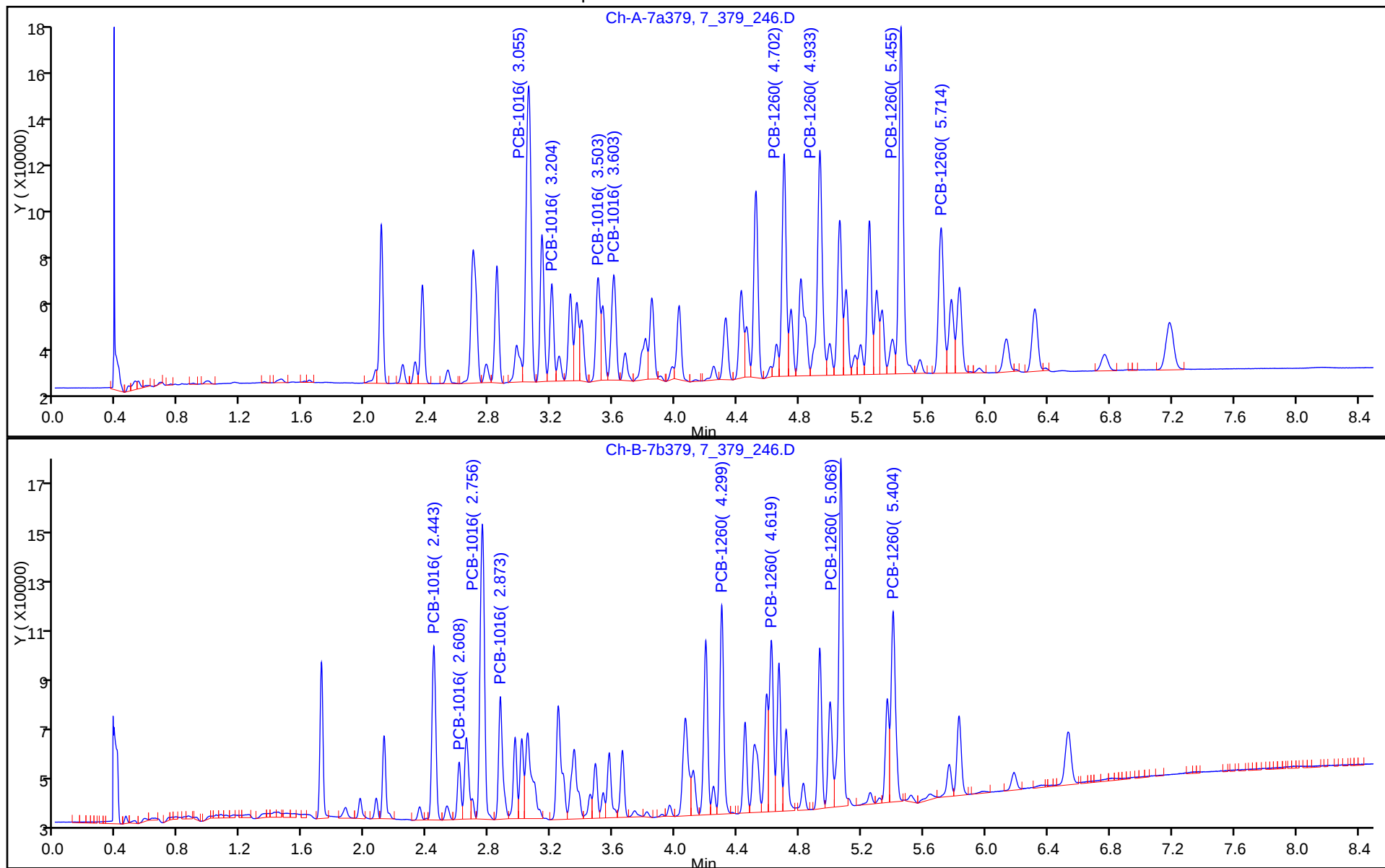
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 06-Aug-2015 22:20:58 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:10 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 09:12:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.106	2.105	0.001	52648	0.001250	0.001325	a
2	1.720	1.719	0.001	45105	0.001250	0.001316	a
							RPD = 0.65

6 PCB-1016

1	3.057	3.055	0.002	145437	0.0500	0.0537	M
1	3.204	3.203	0.001	38262	0.0500	0.0545	M
1	3.501	3.502	-0.001	45650	0.0500	0.0561	M
1	3.603	3.603	0.001	50875	0.0500	0.0554	M
Average of Peak Amounts =							0.0549
2	2.443	2.443	0.000	64047	0.0500	0.0547	
2	2.607	2.606	0.001	18681	0.0500	0.0546	M
2	2.757	2.756	0.001	121645	0.0500	0.0526	M
2	2.873	2.872	0.000	45955	0.0500	0.0530	
Average of Peak Amounts =							0.0537
							RPD = 2.16

9 PCB-1260

1	4.701	4.701	0.000	93878	0.0500	0.0550	a
1	4.933	4.930	0.002	113096	0.0500	0.0541	a
1	5.455	5.454	0.001	150298	0.0500	0.0529	
1	5.712	5.712	0.000	73588	0.0500	0.0542	
Average of Peak Amounts =							0.0540
2	4.300	4.299	0.001	74521	0.0500	0.0526	a
2	4.620	4.619	0.001	60597	0.0500	0.0510	a
2	5.068	5.068	0.000	132475	0.0500	0.0508	M
2	5.403	5.404	-0.001	79036	0.0500	0.0513	
Average of Peak Amounts =							0.0514
							RPD = 4.97

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.187	7.188	-0.001	37376	0.001250	0.001447	a
2	6.533	6.536	-0.003	30363	0.001250	0.001386	a

RPD = 4.36

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 25.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D

Injection Date: 06-Aug-2015 22:20:58

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 7

Client ID:

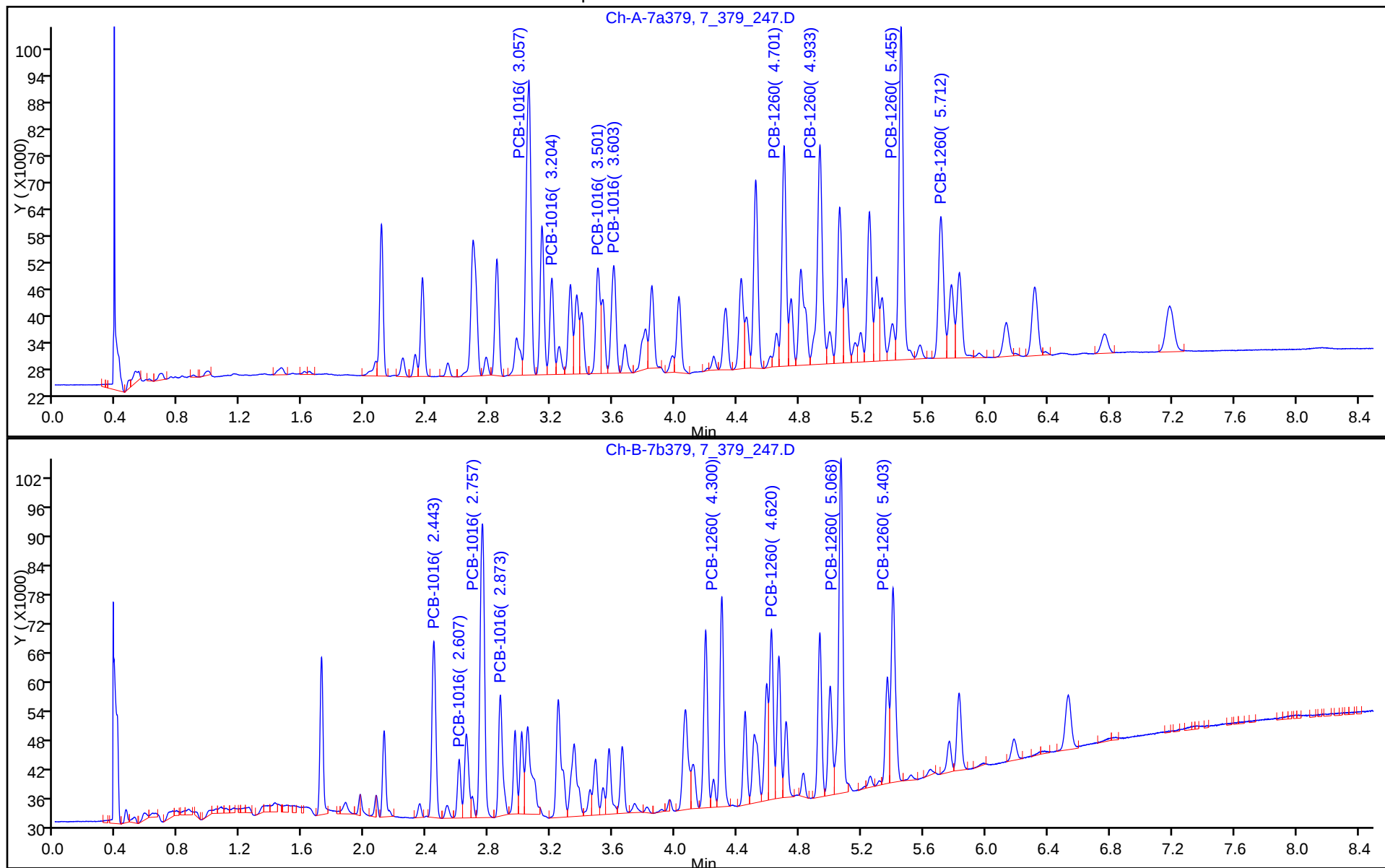
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D

Injection Date: 06-Aug-2015 22:20:58

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

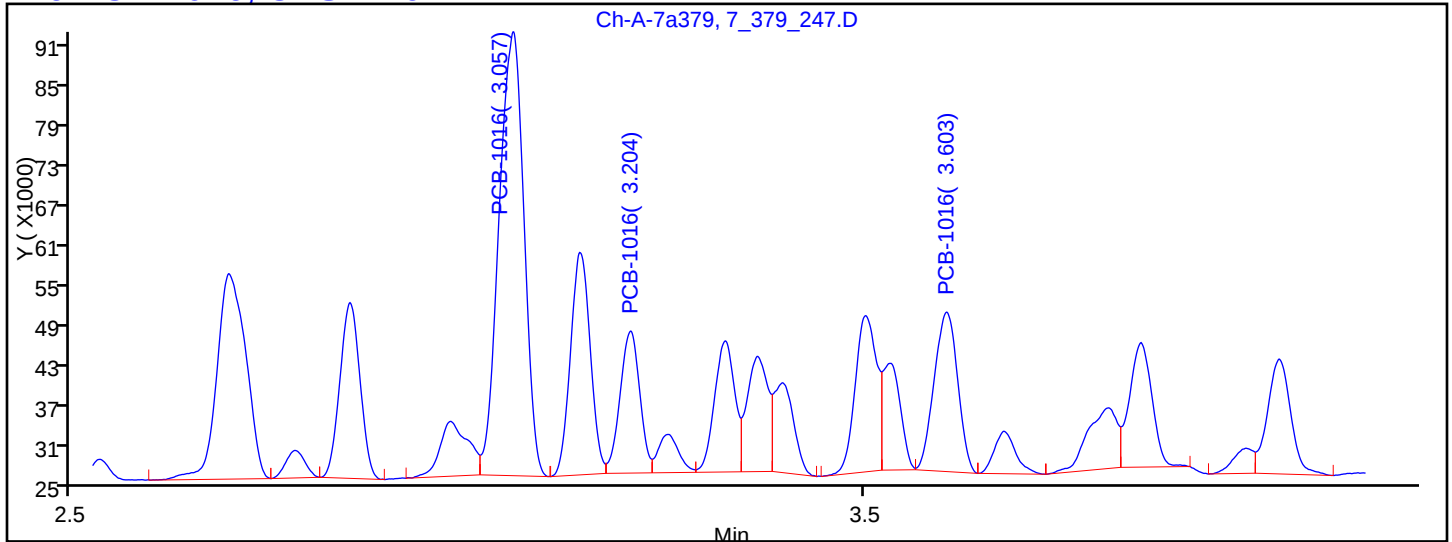
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

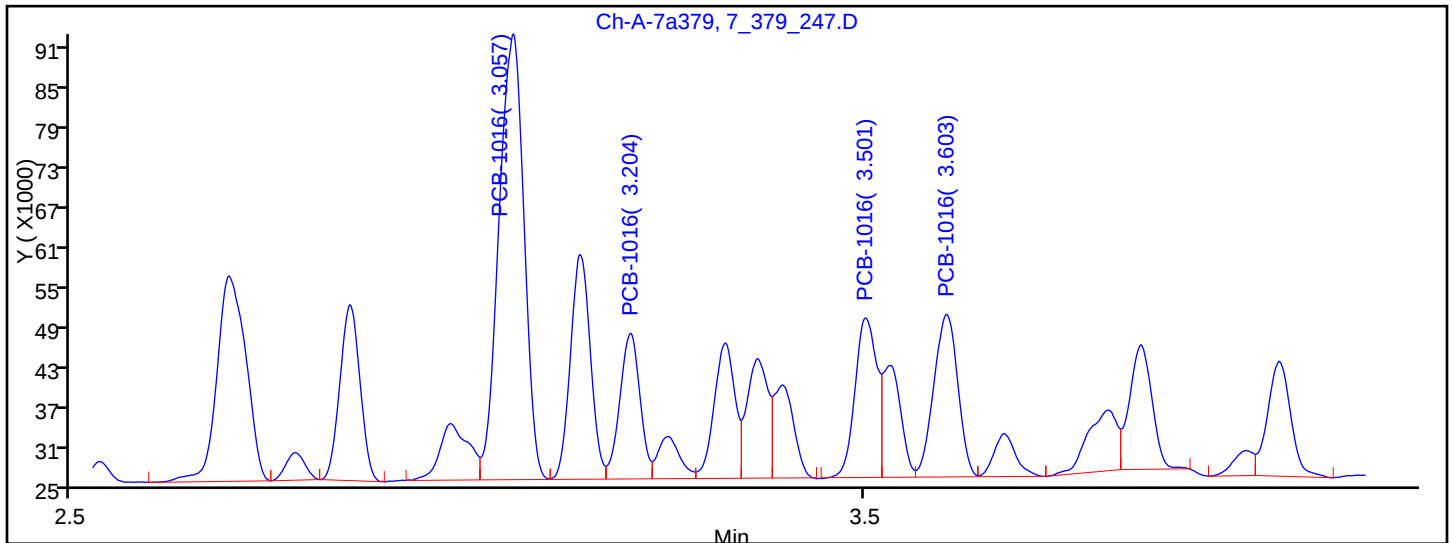
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 3.057	Response = 144115	M
RT = 3.204	Response = 36398	M
RT = 3.324	Response = 34651	M
RT = 3.603	Response = 48701	M



Manual Integration Results

RT = 3.057	Response = 145437	M
RT = 3.204	Response = 38262	M
RT = 3.501	Response = 45650	M
RT = 3.603	Response = 50875	M

Reviewer: larsonj, 07-Aug-2015 10:55:20

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 06-Aug-2015 22:36:48 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:13 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 08:46:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.105	2.105	0.000	21784	0.000500	0.000548	a
2	1.719	1.719	0.000	19437	0.000500	0.000567	a
RPD = 3.41							

6 PCB-1016

1	3.055	3.055	0.000	60696	0.0200	0.0224	M
1	3.203	3.203	0.000	16047	0.0200	0.0229	M
1	3.502	3.502	0.000	19009	0.0200	0.0233	M
1	3.603	3.603	0.000	21487	0.0200	0.0234	M
Average of Peak Amounts =							0.0230
2	2.443	2.443	0.000	26390	0.0200	0.0225	
2	2.606	2.606	0.000	7511	0.0200	0.0220	M
2	2.756	2.756	0.000	50337	0.0200	0.0218	M
2	2.872	2.872	0.000	18760	0.0200	0.0216	
Average of Peak Amounts =							0.0220
RPD = 4.55							

9 PCB-1260

1	4.701	4.701	0.000	37424	0.0200	0.0219	a
1	4.930	4.930	0.000	45824	0.0200	0.0219	a
1	5.454	5.454	0.000	63804	0.0200	0.0225	
1	5.712	5.712	0.000	30867	0.0200	0.0227	
Average of Peak Amounts =							0.0223
2	4.299	4.299	0.000	30422	0.0200	0.0215	a
2	4.619	4.619	0.000	24340	0.0200	0.0205	a
2	5.068	5.068	0.000	55142	0.0200	0.0212	M
2	5.404	5.404	0.000	31967	0.0200	0.0207	
Average of Peak Amounts =							0.0210
RPD = 5.99							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl M
1 7.188 7.188 0.000 15404 0.000500 0.000597 M
2 6.536 6.536 0.000 11341 0.000500 0.000518 a
RPD = 14.17

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Injection Date: 06-Aug-2015 22:36:48

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 8

Client ID:

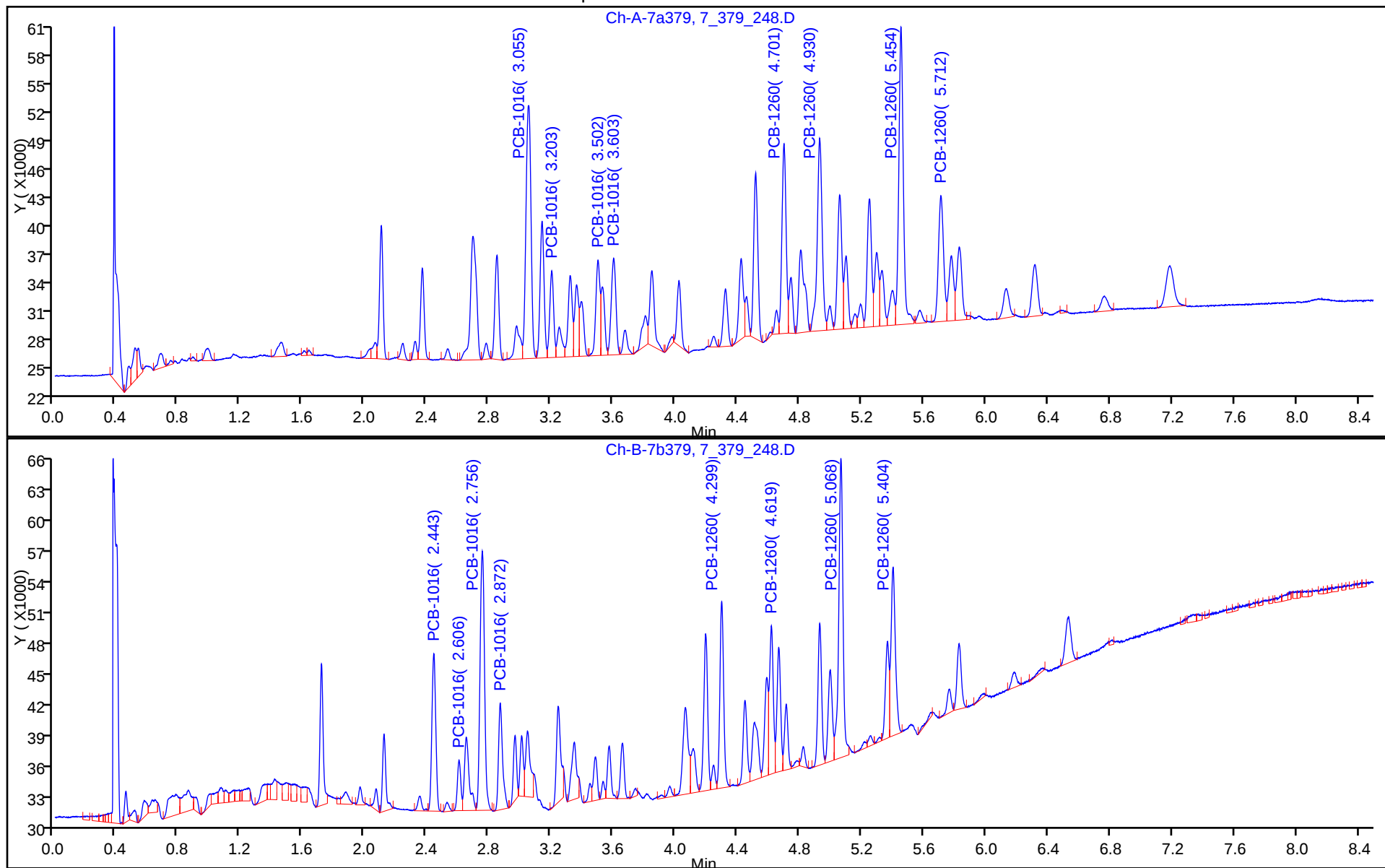
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Injection Date: 06-Aug-2015 22:36:48

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

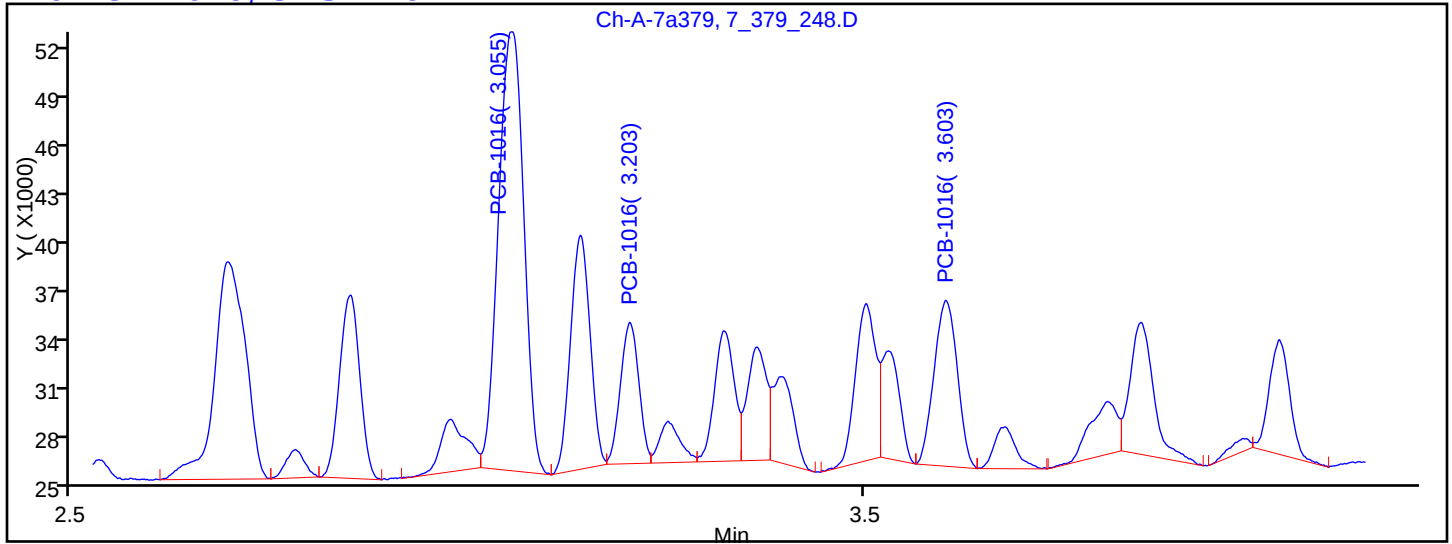
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

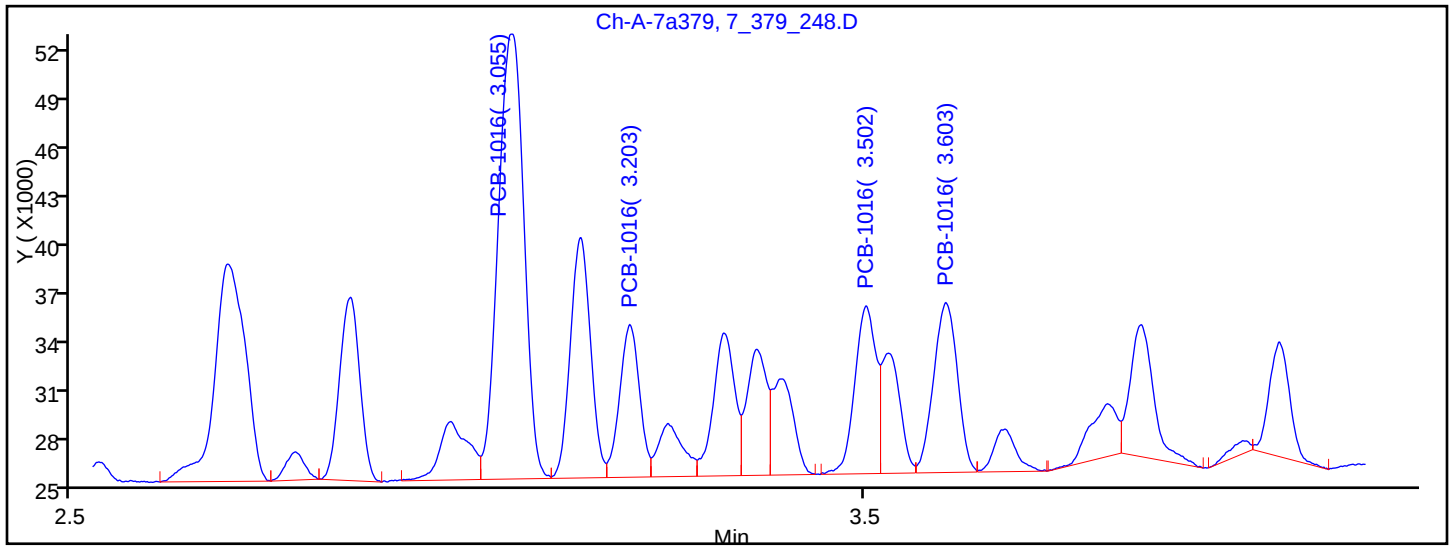
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 3.055	Response = 58926	M
RT = 3.203	Response = 13769	M
RT = 3.323	Response = 13708	M
RT = 3.603	Response = 20397	M



Manual Integration Results

RT = 3.055	Response = 60696	M
RT = 3.203	Response = 16047	M
RT = 3.502	Response = 19009	M
RT = 3.603	Response = 21487	M

Reviewer: larsonj, 07-Aug-2015 10:55:44

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason:

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Injection Date: 06-Aug-2015 22:36:48

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: HP7-PCBS

Limit Group:

GC - 8082A PCB ICAL

Column:

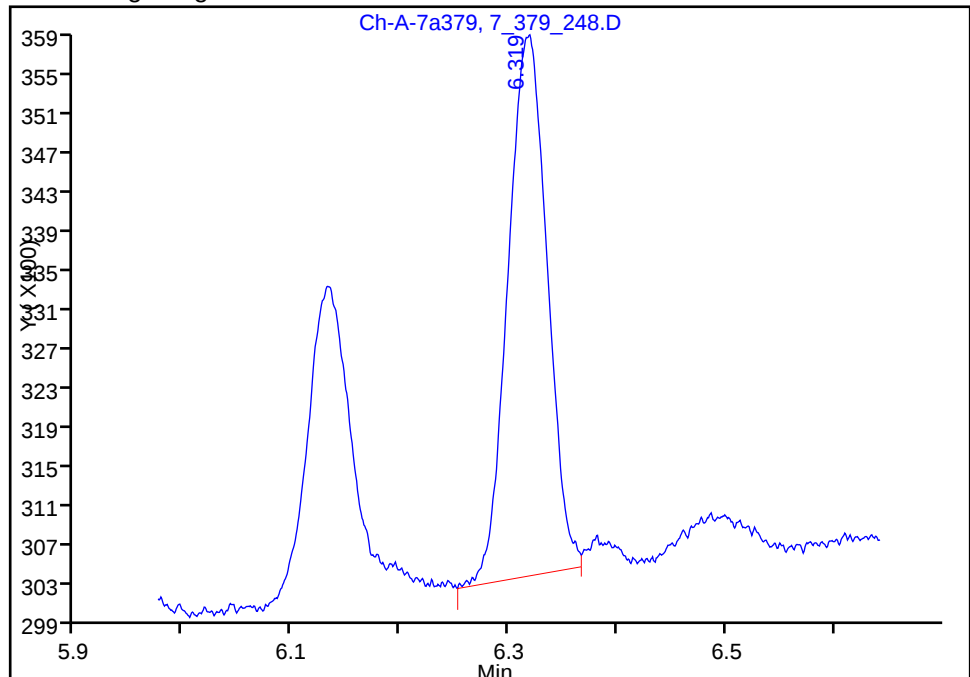
Detector

Ch-A-7A136

\$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

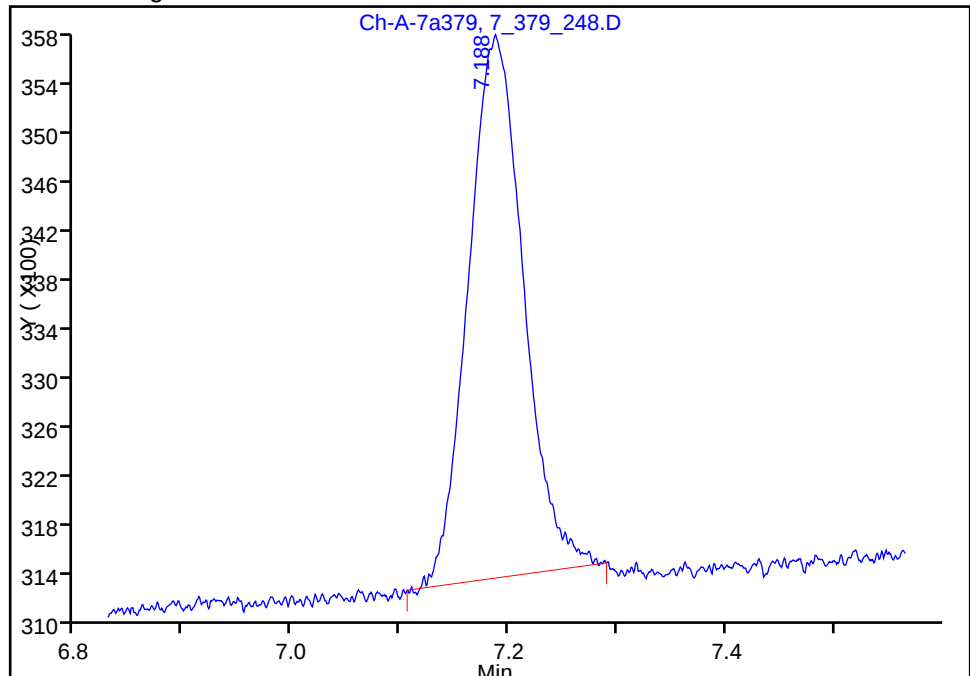
RT: 6.32
Area: 13787
Amount: 0.000496
Amount Units: ng/uL

Processing Integration Results



RT: 7.19
Area: 15404
Amount: 0.000597
Amount Units: ng/uL

Manual Integration Results



Reviewer: larsonj, 07-Aug-2015 11:17:39

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 21:01 Calibration End Date: 08/06/2015 22:36 Calibration ID: 24458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/8	7_379_248.D
Level 2	STD2 480-257541/7	7_379_247.D
Level 3	STD3 480-257541/6	7_379_246.D
Level 4	STD4 480-257541/5	7_379_245.D
Level 5	STD5 480-257541/4	7_379_244.D
Level 6	STD6 480-257541/3	7_379_243.D
Level 7	STD7 480-257541/2	7_379_242.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.443	2.443	2.443	2.443	2.443	2.444	2.444				2.413 - 2.473	2.443
PCB-1016 Peak 2	2.606	2.607	2.608	2.607	2.607	2.607	2.608				2.576 - 2.636	2.607
PCB-1016 Peak 3	2.756	2.757	2.756	2.757	2.757	2.757	2.758				2.726 - 2.786	2.757
PCB-1016 Peak 4	2.872	2.873	2.873	2.873	2.873	2.873	2.873				2.842 - 2.902	2.873
PCB-1260 Peak 1	4.299	4.300	4.299	4.300	4.300	4.299	4.301				4.269 - 4.329	4.300
PCB-1260 Peak 2	4.619	4.620	4.619	4.620	4.620	4.619	4.620				4.589 - 4.649	4.620
PCB-1260 Peak 3	5.068	5.068	5.068	5.068	5.068	5.068	5.068				5.038 - 5.098	5.068
PCB-1260 Peak 4	5.404	5.403	5.404	5.404	5.403	5.404	5.403				5.374 - 5.434	5.404
Tetrachloro-m-xylene	1.719	1.720	1.719	1.720	1.720	1.720	1.720				1.689 - 1.749	1.720
DCB Decachlorobiphenyl	6.536	6.533	6.532	6.532	6.534	6.533	6.534				6.476 - 6.596	6.533

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 21:01 Calibration End Date: 08/06/2015 22:36 Calibration ID: 24458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/8	7_379_248.D
Level 2	STD2 480-257541/7	7_379_247.D
Level 3	STD3 480-257541/6	7_379_246.D
Level 4	STD4 480-257541/5	7_379_245.D
Level 5	STD5 480-257541/4	7_379_244.D
Level 6	STD6 480-257541/3	7_379_243.D
Level 7	STD7 480-257541/2	7_379_242.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	1319500 1104986	1280940 1051595	1206700 1041878	1193040	Ave		1171234.07				9.3		20.0			
PCB-1016 Peak 2	375550 323806	373620 309113	347900 309752	354205	Ave		341992.286				8.2		20.0			
PCB-1016 Peak 3	2516850 2231610	2432900 2173703	2303320 2216198	2311750	Ave		2312332.93				5.3		20.0			
PCB-1016 Peak 4	938000 833654	919100 804442	893560 811272	869710	Ave		867105.429				6.1		20.0			
PCB-1260 Peak 1	1521100 1370262	1490420 1323043	1425760 1367087	1422710	Ave		1417197.43				5.0		20.0			
PCB-1260 Peak 2	1217000 1150950	1211940 1145122	1213410 1193255	1186835	Ave		1188358.79				2.5		20.0			
PCB-1260 Peak 3	2757100 2545052	2649500 2523841	2523410 2667597	2576515	Ave		2606144.93				3.4		20.0			
PCB-1260 Peak 4	1598350 1486210	1580720 1483428	1538450 1574242	1523630	Ave		1540718.50				3.0		20.0			
Tetrachloro-m-xylene	38874000 32007680	36084000 31656120	33619200 34376080	33313000	Ave		34275725.7				7.3		20.0			
DCB Decachlorobiphenyl	22682000 21088000	24290400 19807600	23307600 20124700	22073600	Ave		21910557.1				7.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 21:01 Calibration End Date: 08/06/2015 22:36 Calibration ID: 24458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/8	7_379_248.D
Level 2	STD2 480-257541/7	7_379_247.D
Level 3	STD3 480-257541/6	7_379_246.D
Level 4	STD4 480-257541/5	7_379_245.D
Level 5	STD5 480-257541/4	7_379_244.D
Level 6	STD6 480-257541/3	7_379_243.D
Level 7	STD7 480-257541/2	7_379_242.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	26390 1051595	64047 2083755	120670	238608	552493	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	7511 309113	18681 619504	34790	70841	161903	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	50337 2173703	121645 4432395	230332	462350	1115805	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	18760 804442	45955 1622544	89356	173942	416827	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	30422 1323043	74521 2734174	142576	284542	685131	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	24340 1145122	60597 2386509	121341	237367	575475	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	55142 2523841	132475 5335193	252341	515303	1272526	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	31967 1483428	79036 3148483	153845	304726	743105	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	19437 791403	45105 1718804	84048	166565	400096	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	11341 495190	30363 1006235	58269	110368	263600	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 06-Aug-2015 21:01:14 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:23:54 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 08:30:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.106	2.105	0.001	1855393	0.0500	0.0467	a
2	1.720	1.719	0.001	1718804	0.0500	0.0501	a
RPD = 7.16							

6 PCB-1016

1	3.055	3.055	0.000	4946757	2.00	1.83	a
1	3.203	3.203	-0.001	1285183	2.00	1.83	a
1	3.501	3.502	-0.001	1465208	2.00	1.80	a
1	3.603	3.603	0.001	1667714	2.00	1.81	a
Average of Peak Amounts =							1.82
2	2.444	2.443	0.001	2083755	2.00	1.78	
2	2.608	2.606	0.002	619504	2.00	1.81	
2	2.758	2.756	0.002	4432395	2.00	1.92	
2	2.873	2.872	0.001	1622544	2.00	1.87	
Average of Peak Amounts =							1.84
RPD = 1.47							

9 PCB-1260

1	4.701	4.701	0.000	3170887	2.00	1.86	a
1	4.930	4.930	0.000	4100046	2.00	1.96	a
1	5.456	5.454	0.002	5369927	2.00	1.89	
1	5.713	5.712	0.000	2521389	2.00	1.86	
Average of Peak Amounts =							1.89
2	4.301	4.299	0.002	2734174	2.00	1.93	a
2	4.620	4.619	0.001	2386509	2.00	2.01	a
2	5.068	5.068	0.000	5335193	2.00	2.05	M
2	5.403	5.404	-0.001	3148483	2.00	2.04	
Average of Peak Amounts =							2.01
RPD = 5.93							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.185	7.188	-0.003	1075839	0.0500	0.0417	a
2	6.534	6.536	-0.002	1006235	0.0500	0.0459	a

RPD = 9.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D

Injection Date: 06-Aug-2015 21:01:14

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 2

Client ID:

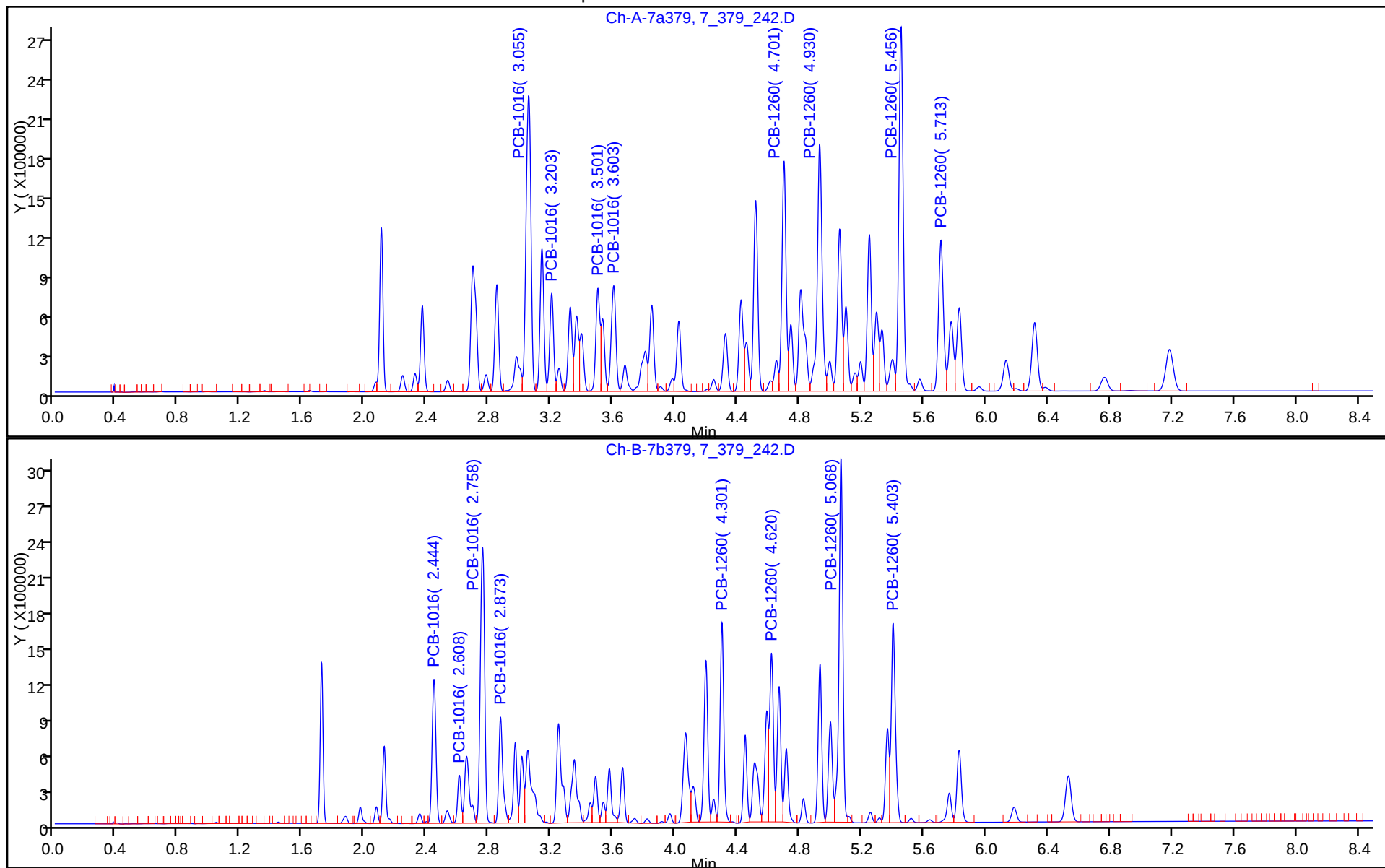
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_242.D

Injection Date: 06-Aug-2015 21:01:14

Instrument ID: HP6890-7

Lims ID: STD7

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 2

Injection Vol: 1.0 ul

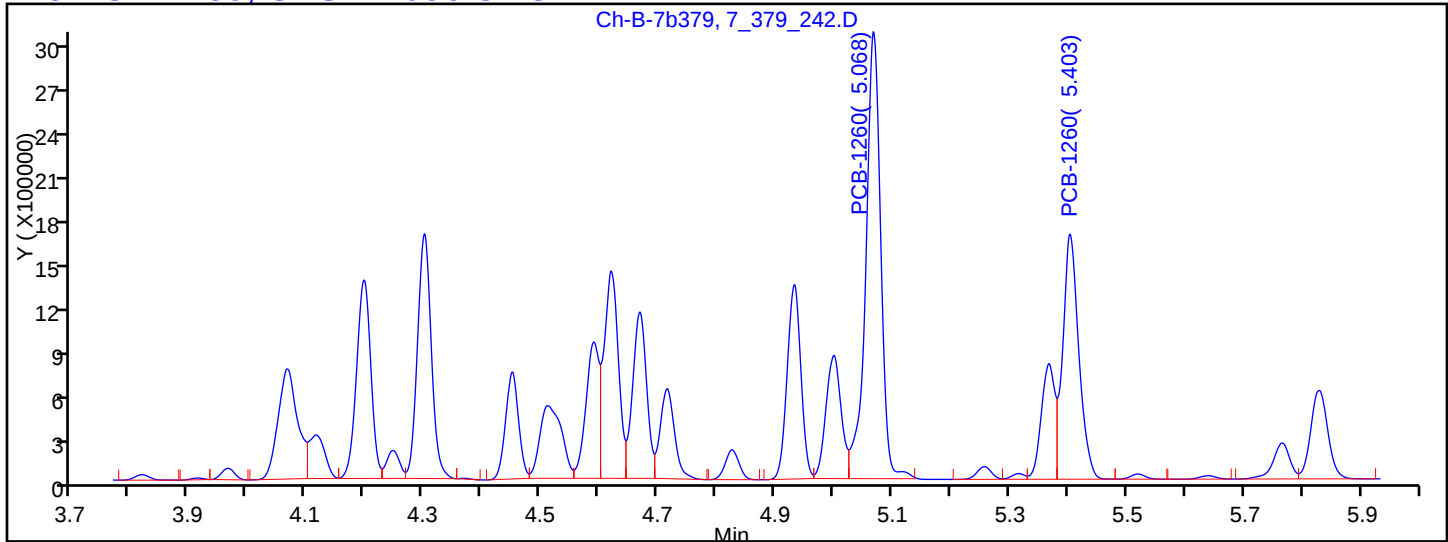
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

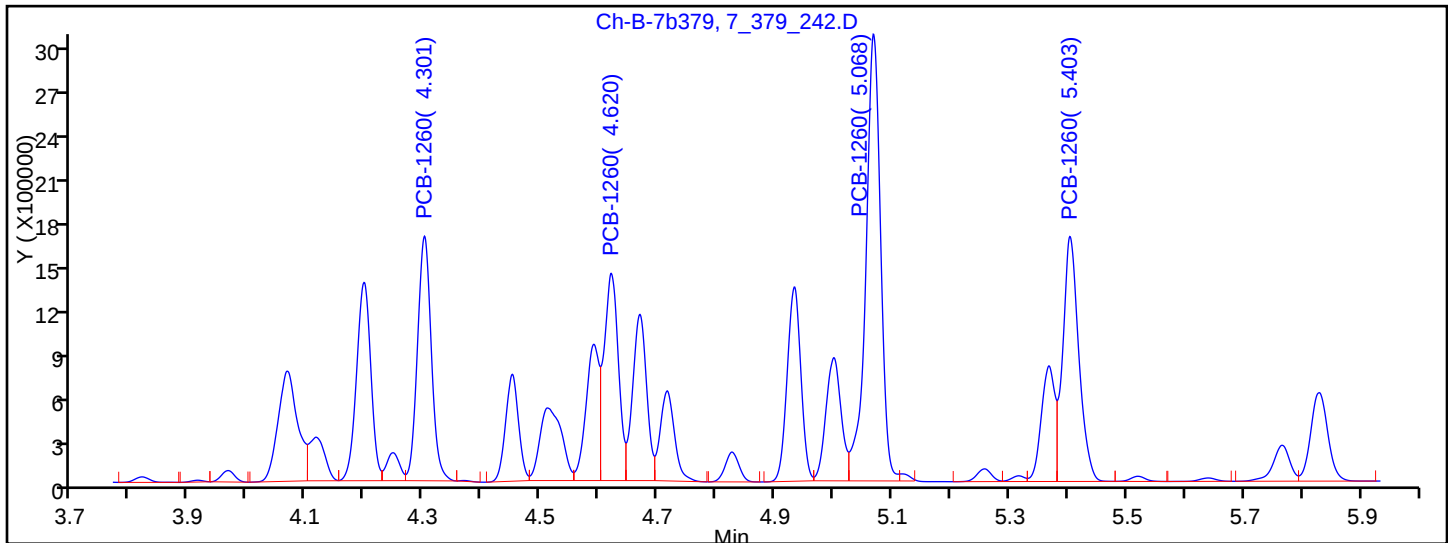
Column:

Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.933	Response = 2152891	M
RT = 5.000	Response = 1524996	M
RT = 5.068	Response = 5389684	M
RT = 5.403	Response = 3148483	



Manual Integration Results

RT = 4.301	Response = 2734174	M
RT = 4.620	Response = 2386509	M
RT = 5.068	Response = 5335193	M
RT = 5.403	Response = 3148483	

Reviewer: larsonj, 07-Aug-2015 11:33:28

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 06-Aug-2015 21:17:13 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:23:57 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 08:52:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.106	2.105	0.001	927972	0.0250	0.0233	a
2	1.720	1.719	0.001	791403	0.0250	0.0231	a
						RPD = 1.11	

6 PCB-1016

1	3.055	3.055	0.000	2492796	1.00	0.9205	a
1	3.204	3.203	0.001	638016	1.00	0.9087	a
1	3.502	3.502	0.000	716796	1.00	0.8802	a
1	3.603	3.603	0.001	826524	1.00	0.8994	a
Average of Peak Amounts =						0.9022	
2	2.444	2.443	0.001	1051595	1.00	0.8979	
2	2.607	2.606	0.001	309113	1.00	0.9039	
2	2.757	2.756	0.001	2173703	1.00	0.9400	
2	2.873	2.872	0.000	804442	1.00	0.9277	
Average of Peak Amounts =						0.9174	
						RPD = 1.67	

9 PCB-1260

1	4.702	4.701	0.001	1573201	1.00	0.9215	a
1	4.932	4.930	0.002	1925397	1.00	0.9205	a
1	5.456	5.454	0.002	2623130	1.00	0.9235	
1	5.713	5.712	0.001	1224568	1.00	0.9023	
Average of Peak Amounts =						0.9170	
2	4.299	4.299	0.000	1323043	1.00	0.9336	a
2	4.619	4.619	0.000	1145122	1.00	0.9636	a
2	5.068	5.068	0.000	2523841	1.00	0.9684	M
2	5.404	5.404	0.000	1483428	1.00	0.9628	
Average of Peak Amounts =						0.9571	
						RPD = 4.28	

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.188	7.188	0.000	540126	0.0250	0.0209	a
2	6.533	6.536	-0.004	495190	0.0250	0.0226	a

RPD = 7.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 500.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D

Injection Date: 06-Aug-2015 21:17:13

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 3

Client ID:

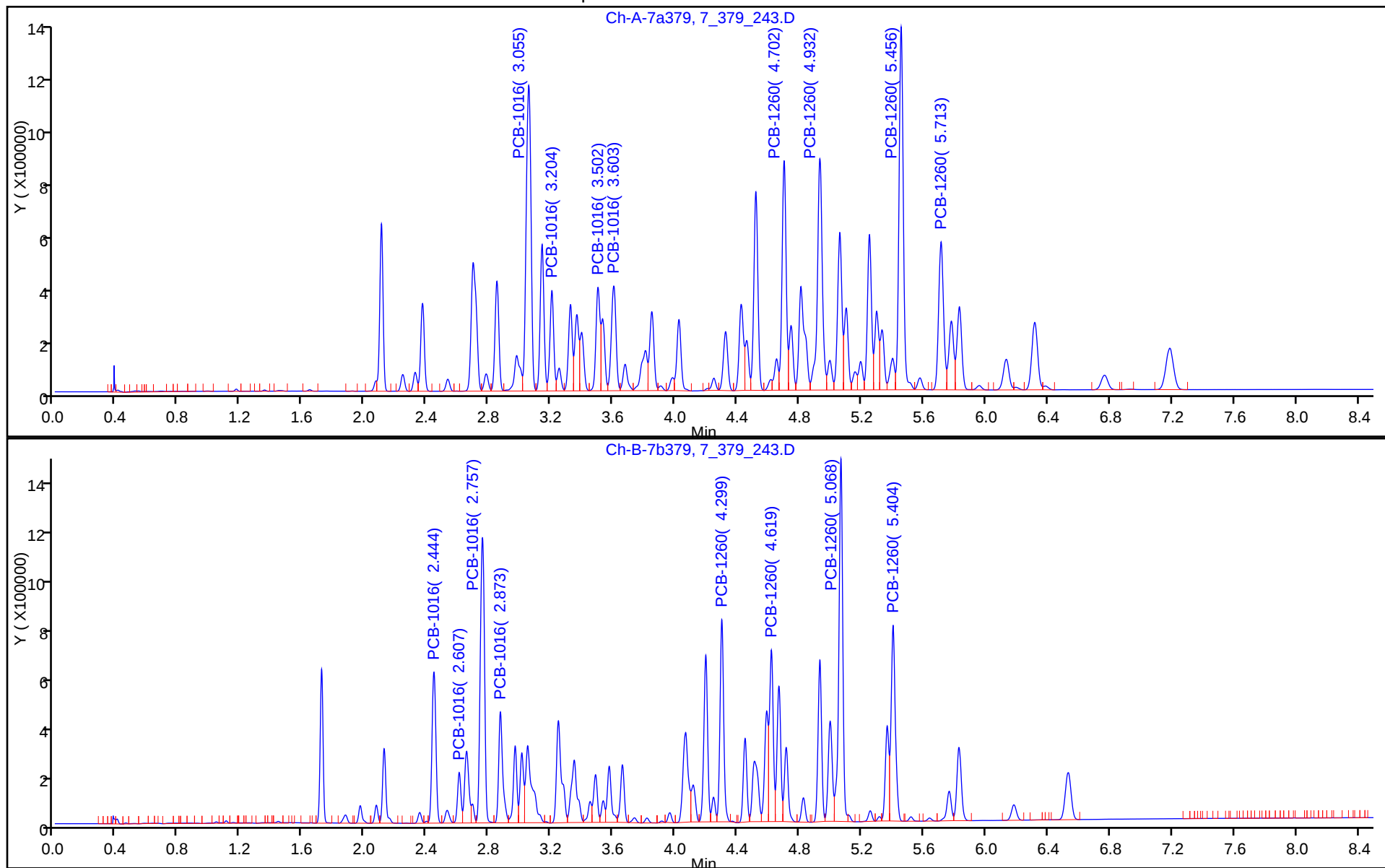
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_243.D

Injection Date: 06-Aug-2015 21:17:13

Instrument ID: HP6890-7

Lims ID: STD6

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

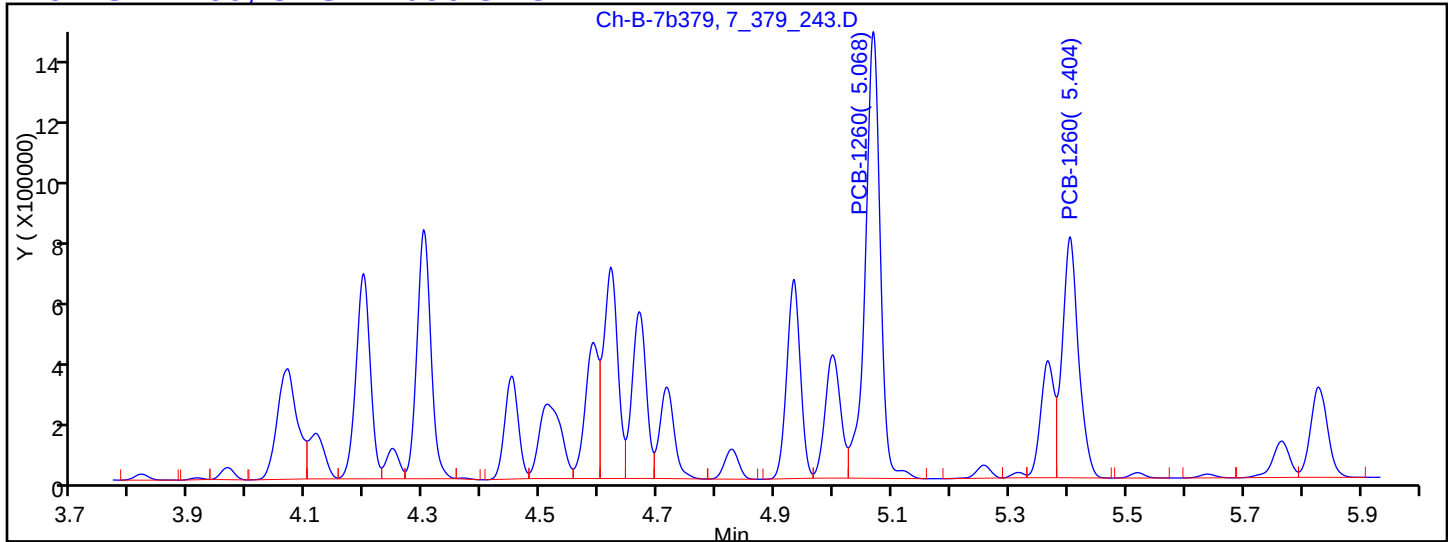
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

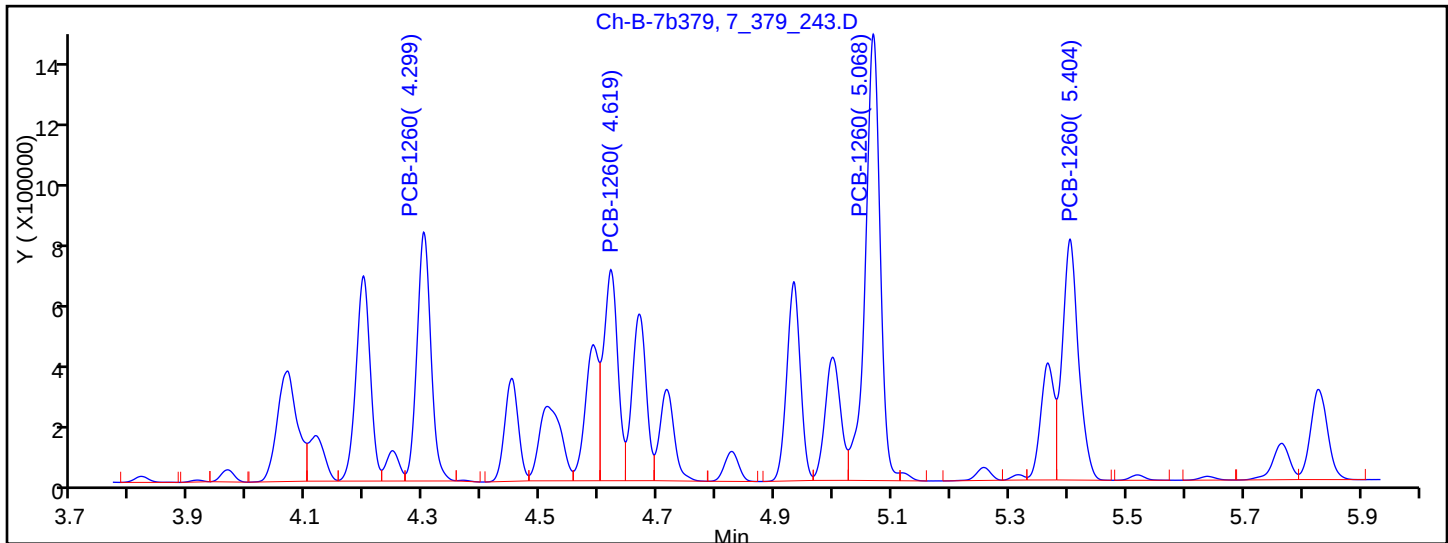
Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.932	Response = 1030493	M
RT = 4.998	Response = 736588	M
RT = 5.068	Response = 2553004	M
RT = 5.404	Response = 1483428	



Manual Integration Results

RT = 4.299	Response = 1323043	M
RT = 4.619	Response = 1145122	M
RT = 5.068	Response = 2523841	M
RT = 5.404	Response = 1483428	

Reviewer: larsonj, 07-Aug-2015 11:33:44

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 06-Aug-2015 21:33:04 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:00 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 09:05:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M
 1 2.105 2.105 0.000 480244 0.0125 0.0121 M
 2 1.720 1.719 0.001 400096 0.0125 0.0117 a
 RPD = 3.45

6 PCB-1016
 1 3.056 3.055 0.001 1307362 0.5000 0.4828 a
 1 3.204 3.203 0.001 334740 0.5000 0.4768 a
 1 3.502 3.502 0.000 380458 0.5000 0.4672 a
 1 3.603 3.603 0.001 434651 0.5000 0.4730 a
 Average of Peak Amounts = 0.4749
 2 2.443 2.443 0.000 552493 0.5000 0.4717
 2 2.607 2.606 0.001 161903 0.5000 0.4734
 2 2.757 2.756 0.001 1115805 0.5000 0.4825
 2 2.873 2.872 0.000 416827 0.5000 0.4807
 Average of Peak Amounts = 0.4771
 RPD = 0.46

9 PCB-1260 M
 1 4.701 4.701 0.000 814540 0.5000 0.4771 a
 1 4.933 4.930 0.002 988678 0.5000 0.4727 a
 1 5.456 5.454 0.002 1363989 0.5000 0.4802
 1 5.713 5.712 0.000 639246 0.5000 0.4710
 Average of Peak Amounts = 0.4753
 2 4.300 4.299 0.001 685131 0.5000 0.4834 M
 2 4.620 4.619 0.001 575475 0.5000 0.4843 M
 2 5.068 5.068 0.000 1272526 0.5000 0.4883 M
 2 5.403 5.404 -0.001 743105 0.5000 0.4823
 Average of Peak Amounts = 0.4846
 RPD = 1.94

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.188	7.188	0.000	290226	0.0125	0.0112	a
2	6.534	6.536	-0.002	263600	0.0125	0.0120	a

RPD = 6.80

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Injection Date: 06-Aug-2015 21:33:04

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 4

Client ID:

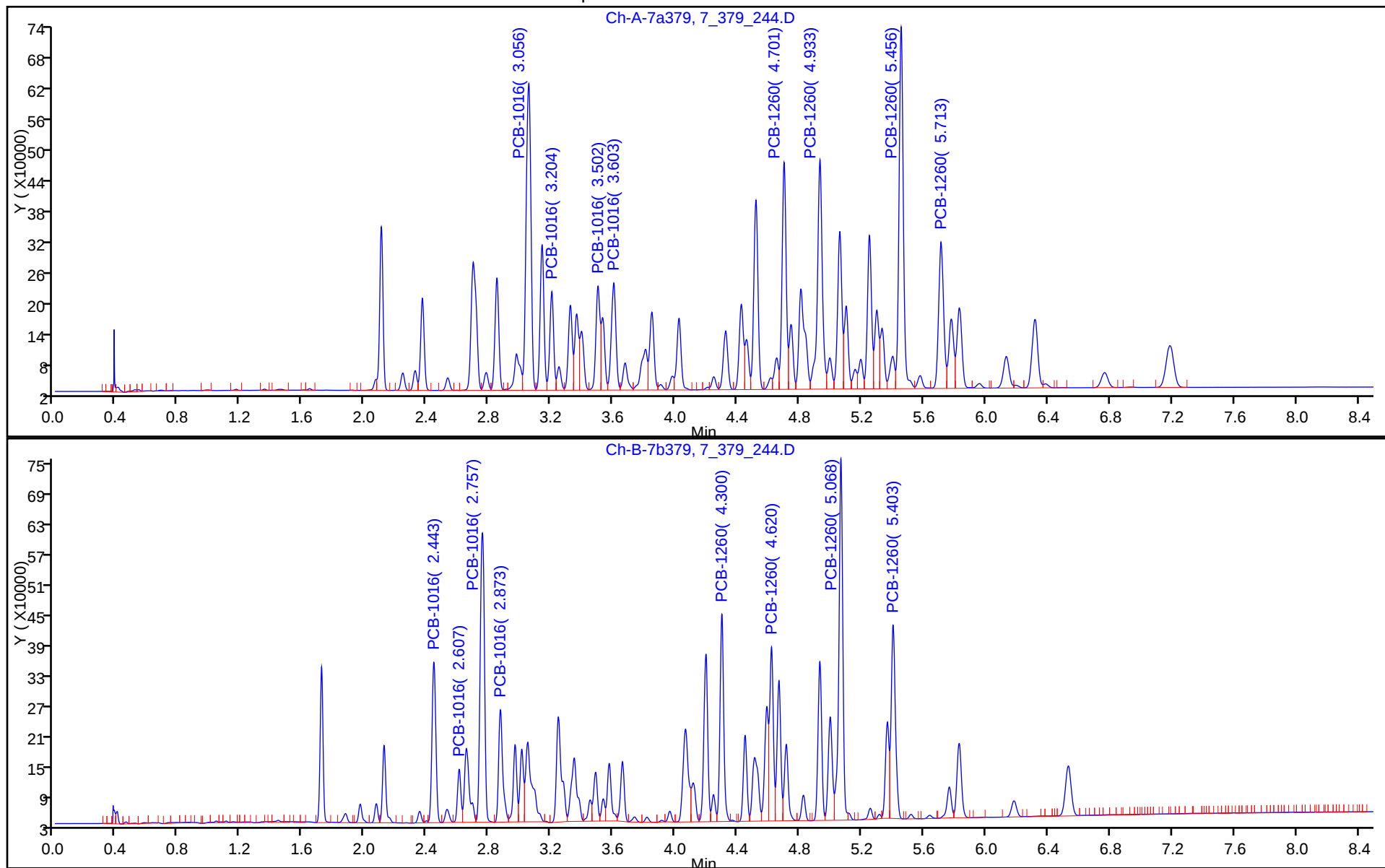
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Injection Date: 06-Aug-2015 21:33:04

Instrument ID: HP6890-7

Lims ID: STD5

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

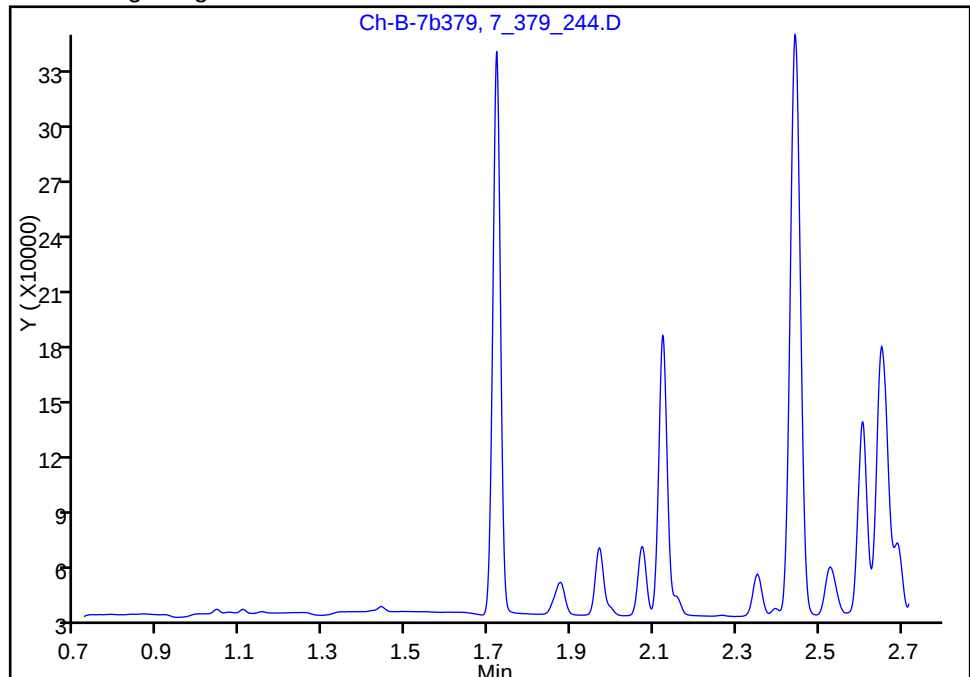
Detector Ch-B-7b136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

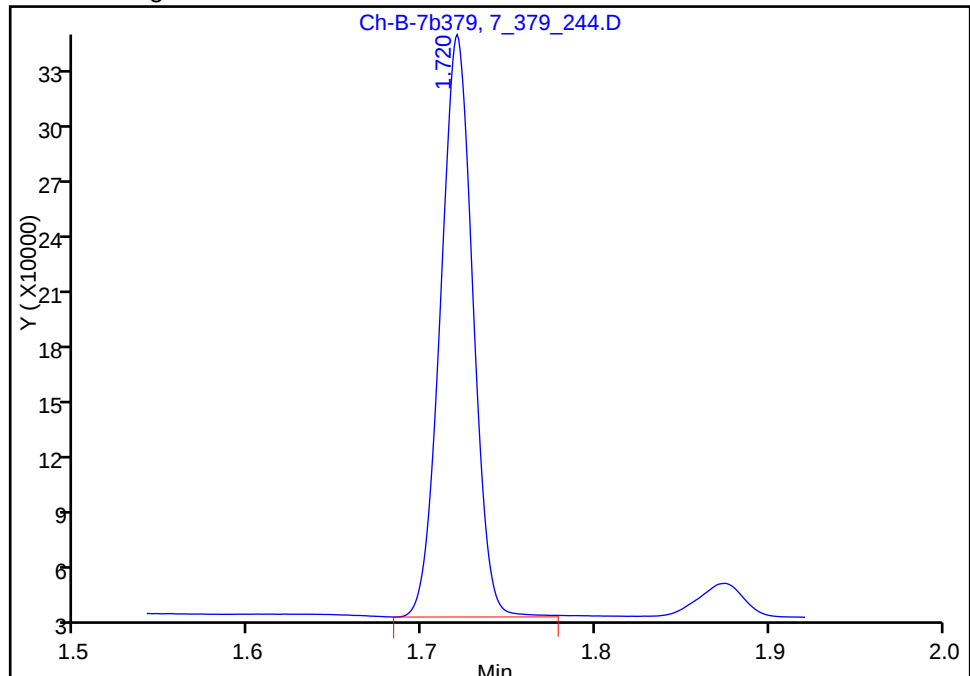
Not Detected

Expected RT: 1.72

Processing Integration Results



Manual Integration Results



RT: 1.72

Area: 400096

Amount: 0.011673

Amount Units: ng/uL

Reviewer: larsonj, 07-Aug-2015 11:09:01

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_244.D

Injection Date: 06-Aug-2015 21:33:04

Instrument ID: HP6890-7

Lims ID: STD5

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

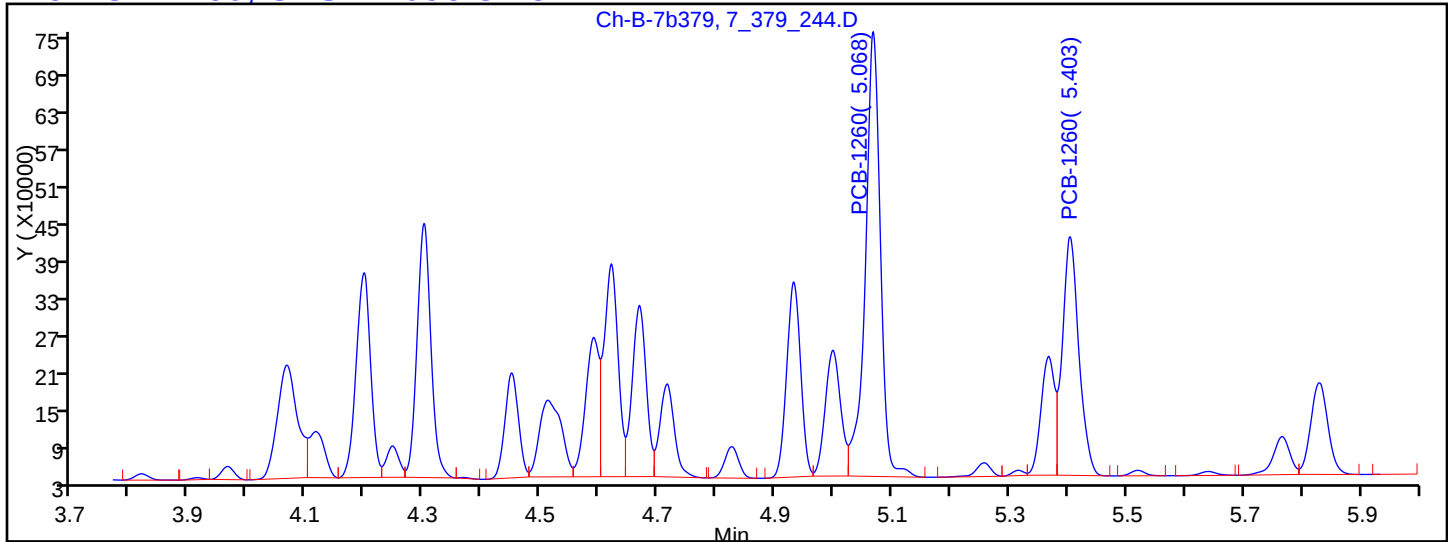
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

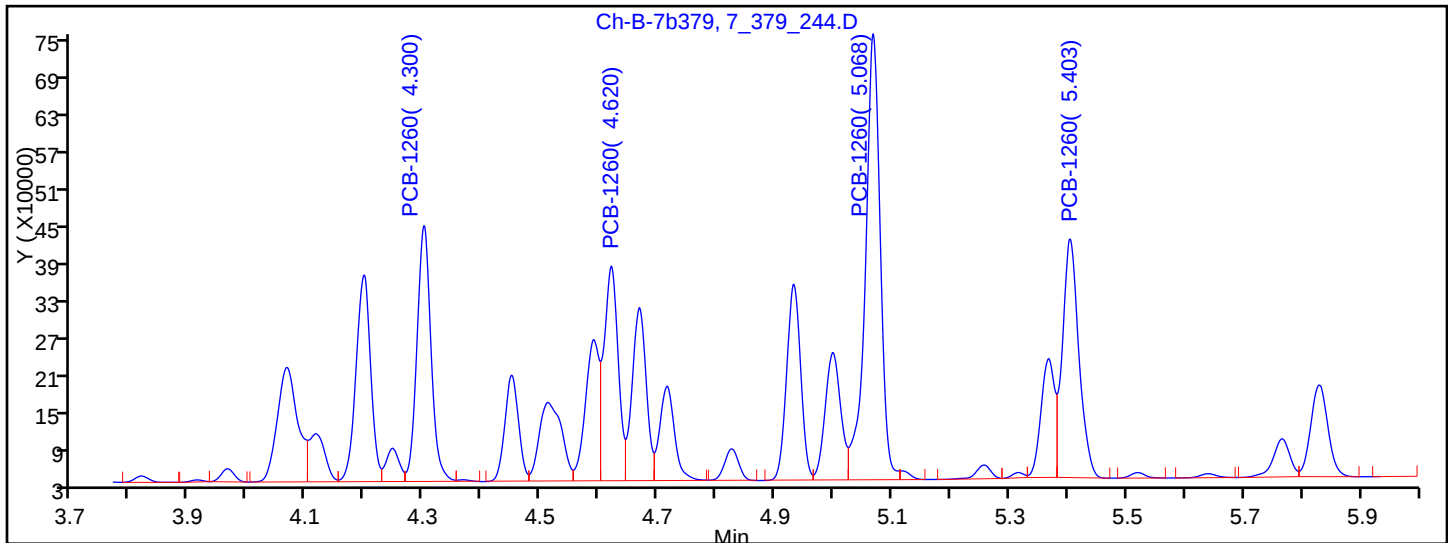
Column:

Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.932	Response = 520629	M
RT = 4.998	Response = 372343	M
RT = 5.068	Response = 1278355	M
RT = 5.403	Response = 743105	



Manual Integration Results

RT = 4.300	Response = 685131	M
RT = 4.620	Response = 575475	M
RT = 5.068	Response = 1272526	M
RT = 5.403	Response = 743105	

Reviewer: larsonj, 07-Aug-2015 11:33:59

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 06-Aug-2015 21:48:54 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:04 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 08:46:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.105	2.105	0.000	199842	0.005000	0.005028	a
2	1.720	1.719	0.001	166565	0.005000	0.004860	a
RPD = 3.40							

6 PCB-1016

1	3.056	3.055	0.001	544788	0.2000	0.2012	a
1	3.203	3.203	0.000	139767	0.2000	0.1991	a
1	3.502	3.502	0.000	162230	0.2000	0.1992	a
1	3.603	3.603	0.001	181236	0.2000	0.1972	a
Average of Peak Amounts =							0.1992
2	2.443	2.443	0.000	238608	0.2000	0.2037	M
2	2.607	2.606	0.001	70841	0.2000	0.2071	M
2	2.757	2.756	0.001	462350	0.2000	0.1999	M
2	2.873	2.872	0.000	173942	0.2000	0.2006	
Average of Peak Amounts =							0.2029
RPD = 1.84							

9 PCB-1260

1	4.702	4.701	0.001	340331	0.2000	0.1994	a
1	4.932	4.930	0.002	410186	0.2000	0.1961	a
1	5.455	5.454	0.001	564489	0.2000	0.1987	
1	5.713	5.712	0.000	268408	0.2000	0.1978	
Average of Peak Amounts =							0.1980
2	4.300	4.299	0.001	284542	0.2000	0.2008	M
2	4.620	4.619	0.001	237367	0.2000	0.1997	M
2	5.068	5.068	0.000	515303	0.2000	0.1977	M
2	5.404	5.404	0.000	304726	0.2000	0.1978	M
Average of Peak Amounts =							0.1990
RPD = 0.51							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.188	7.188	0.000	130134	0.005000	0.005040	a
2	6.532	6.536	-0.004	110368	0.005000	0.005037	a

RPD = 0.05

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 100.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D

Injection Date: 06-Aug-2015 21:48:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 5

Client ID:

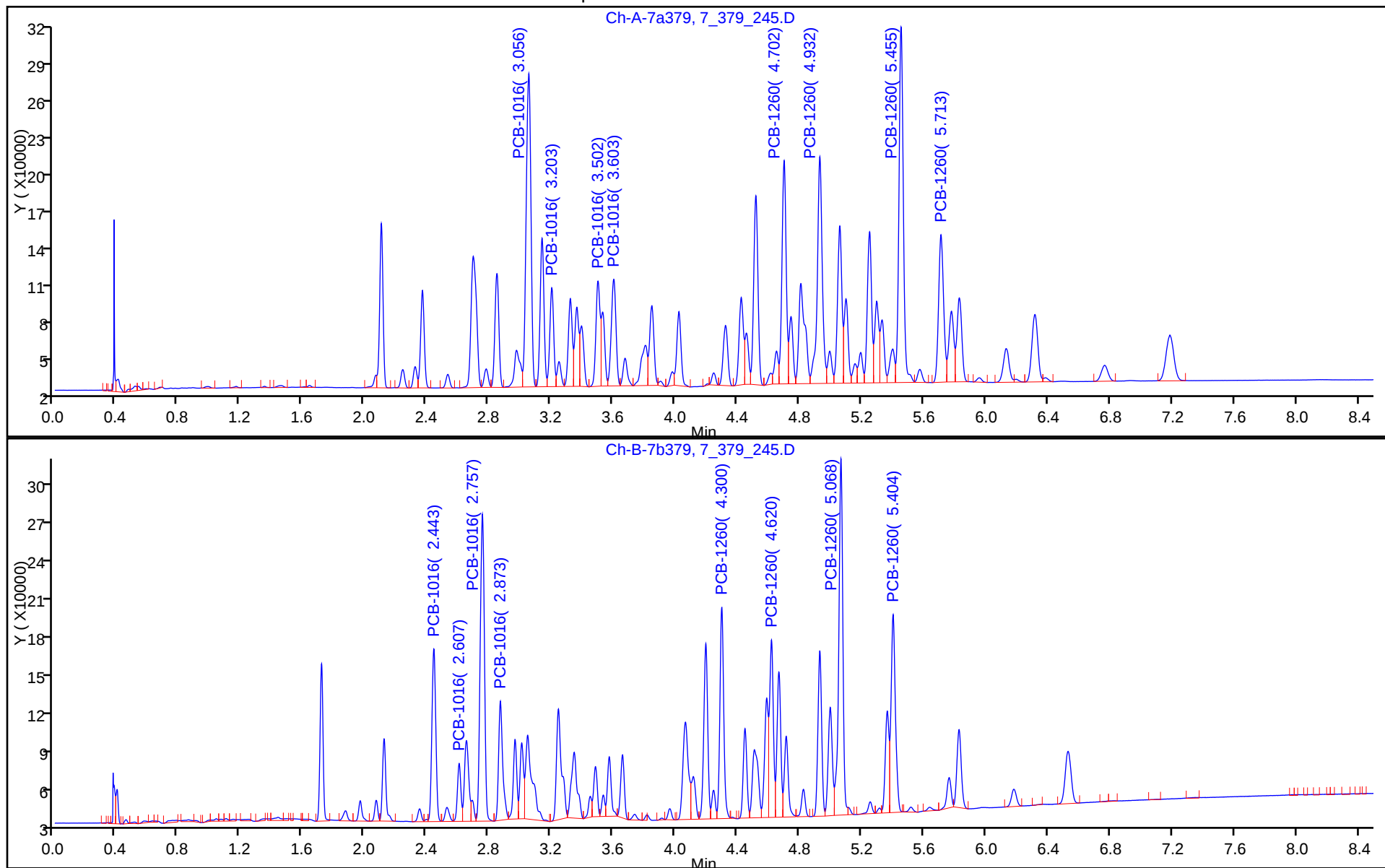
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_245.D

Injection Date: 06-Aug-2015 21:48:54

Instrument ID: HP6890-7

Lims ID: STD4

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

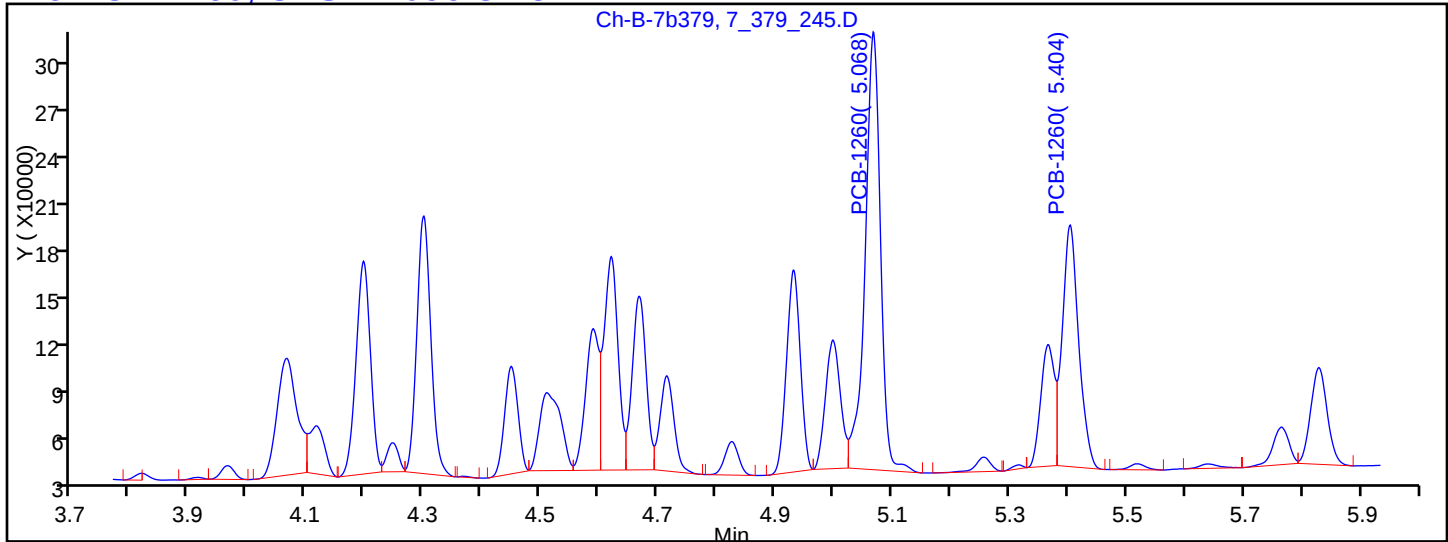
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

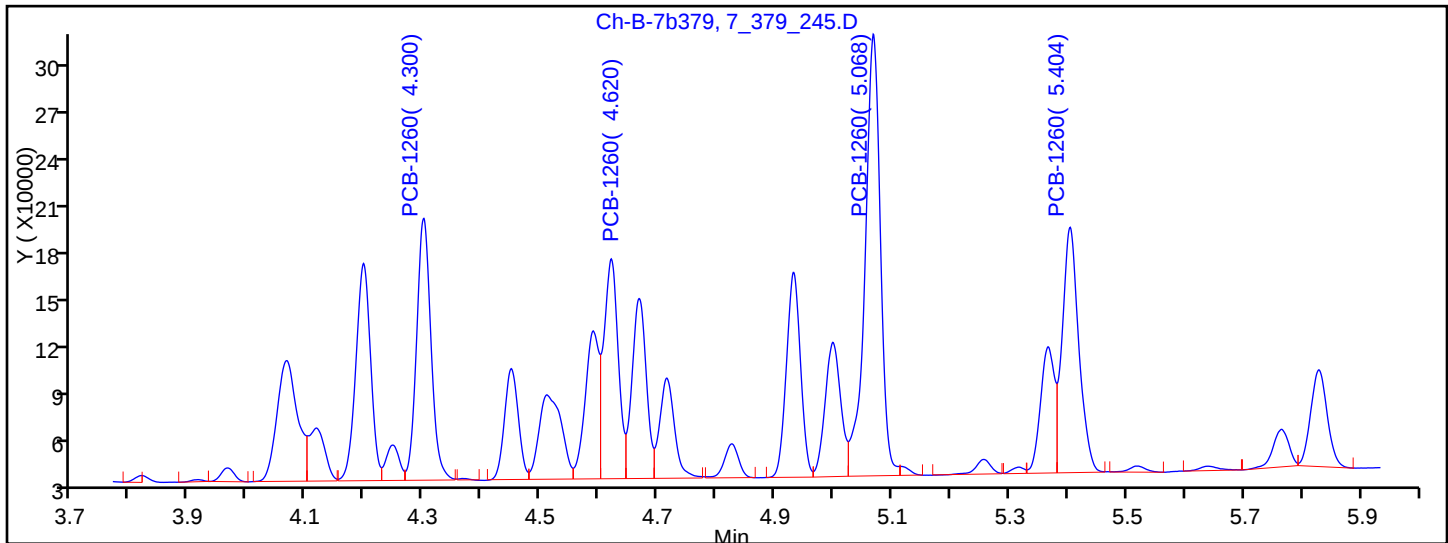
Column:

Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.931	Response = 210805	M
RT = 4.998	Response = 147242	M
RT = 5.068	Response = 507595	M
RT = 5.404	Response = 296379	M



Manual Integration Results

RT = 4.300	Response = 284542	M
RT = 4.620	Response = 237367	M
RT = 5.068	Response = 515303	M
RT = 5.404	Response = 304726	M

Reviewer: larsonj, 07-Aug-2015 09:08:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 06-Aug-2015 22:05:01 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:07 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 09:10:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.105	2.105	0.000	99824	0.002500	0.002511	a
2	1.719	1.719	0.000	84048	0.002500	0.002452	a

RPD = 2.39

6 PCB-1016

1	3.055	3.055	0.000	270868	0.1000	0.1000	a
1	3.204	3.203	0.001	69832	0.1000	0.0995	a
1	3.503	3.502	0.000	81578	0.1000	0.1002	a
1	3.603	3.603	0.001	90533	0.1000	0.0985	a
Average of Peak Amounts =						0.0995	
2	2.443	2.443	0.000	120670	0.1000	0.1030	
2	2.608	2.606	0.002	34790	0.1000	0.1017	
2	2.756	2.756	0.000	230332	0.1000	0.0996	
2	2.873	2.872	0.000	89356	0.1000	0.1031	
Average of Peak Amounts =						0.1019	

RPD = 2.30

9 PCB-1260

1	4.702	4.701	0.001	171217	0.1000	0.1003	a
1	4.933	4.930	0.002	208481	0.1000	0.0997	a
1	5.455	5.454	0.001	282825	0.1000	0.0996	
1	5.714	5.712	0.002	137929	0.1000	0.1016	
Average of Peak Amounts =						0.1003	
2	4.299	4.299	0.000	142576	0.1000	0.1006	M
2	4.619	4.619	0.000	121341	0.1000	0.1021	M
2	5.068	5.068	0.000	252341	0.1000	0.0968	M
2	5.404	5.404	0.000	153845	0.1000	0.0999	
Average of Peak Amounts =						0.0998	

RPD = 0.44

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.186	7.188	-0.002	69190	0.002500	0.002680	a
2	6.532	6.536	-0.004	58269	0.002500	0.002659	a

RPD = 0.75

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 50.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D

Injection Date: 06-Aug-2015 22:05:01

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 6

Client ID:

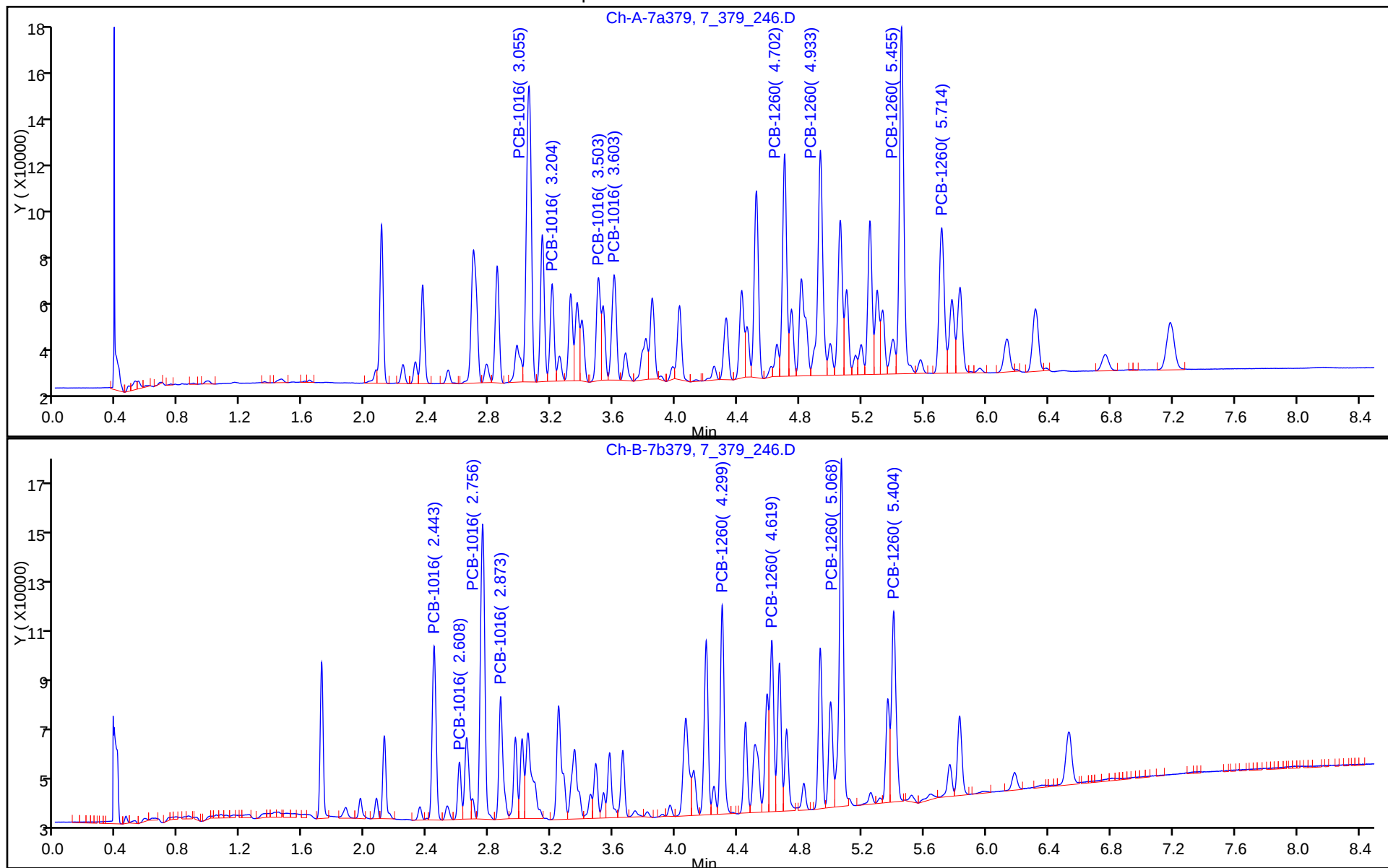
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_246.D

Injection Date: 06-Aug-2015 22:05:01

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

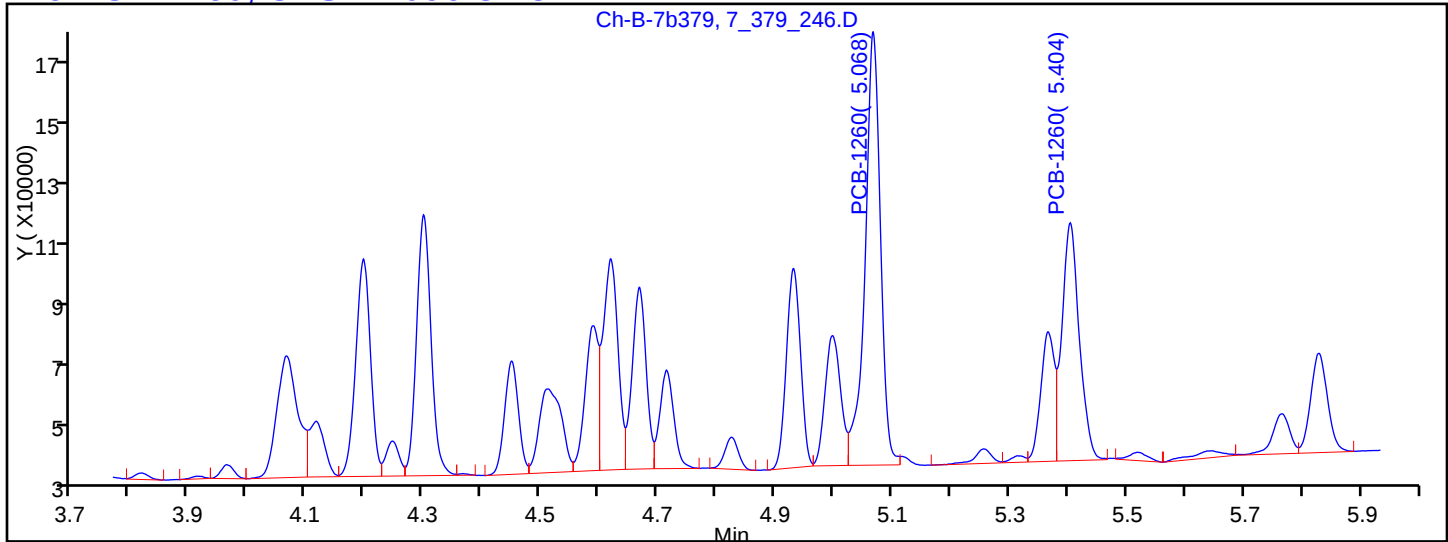
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

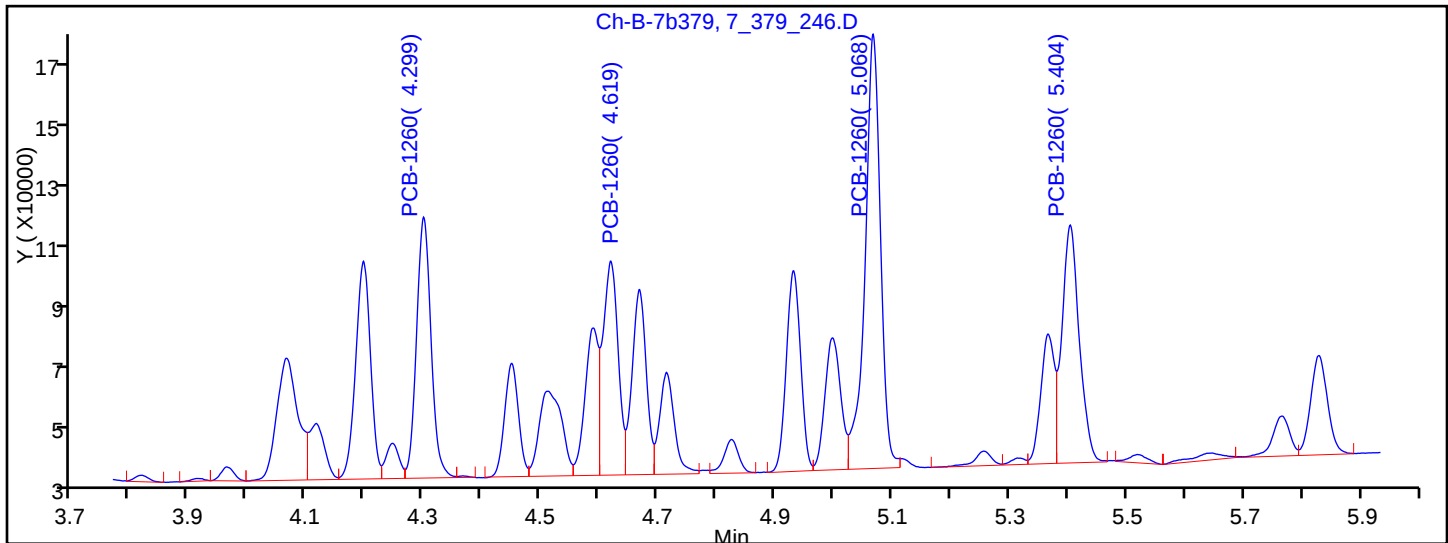
Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.931	Response = 106222	M
RT = 4.998	Response = 77162	M
RT = 5.068	Response = 250539	M
RT = 5.404	Response = 153845	



Manual Integration Results

RT = 4.299	Response = 142576	M
RT = 4.619	Response = 121341	M
RT = 5.068	Response = 252341	M
RT = 5.404	Response = 153845	

Reviewer: larsonj, 07-Aug-2015 09:10:50

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 06-Aug-2015 22:20:58 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:10 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 09:12:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.106	2.105	0.001	52648	0.001250	0.001325	a
2	1.720	1.719	0.001	45105	0.001250	0.001316	a

RPD = 0.65

6 PCB-1016

1	3.057	3.055	0.002	145437	0.0500	0.0537	M
1	3.204	3.203	0.001	38262	0.0500	0.0545	M
1	3.501	3.502	-0.001	45650	0.0500	0.0561	M
1	3.603	3.603	0.001	50875	0.0500	0.0554	M

Average of Peak Amounts = 0.0549

2	2.443	2.443	0.000	64047	0.0500	0.0547	
2	2.607	2.606	0.001	18681	0.0500	0.0546	M
2	2.757	2.756	0.001	121645	0.0500	0.0526	M
2	2.873	2.872	0.000	45955	0.0500	0.0530	

Average of Peak Amounts = 0.0537

RPD = 2.16

9 PCB-1260

1	4.701	4.701	0.000	93878	0.0500	0.0550	a
1	4.933	4.930	0.002	113096	0.0500	0.0541	a
1	5.455	5.454	0.001	150298	0.0500	0.0529	
1	5.712	5.712	0.000	73588	0.0500	0.0542	

Average of Peak Amounts = 0.0540

2	4.300	4.299	0.001	74521	0.0500	0.0526	a
2	4.620	4.619	0.001	60597	0.0500	0.0510	a
2	5.068	5.068	0.000	132475	0.0500	0.0508	M
2	5.403	5.404	-0.001	79036	0.0500	0.0513	

Average of Peak Amounts = 0.0514

RPD = 4.97

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.187	7.188	-0.001	37376	0.001250	0.001447	a
2	6.533	6.536	-0.003	30363	0.001250	0.001386	a

RPD = 4.36

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 25.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D

Injection Date: 06-Aug-2015 22:20:58

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 7

Client ID:

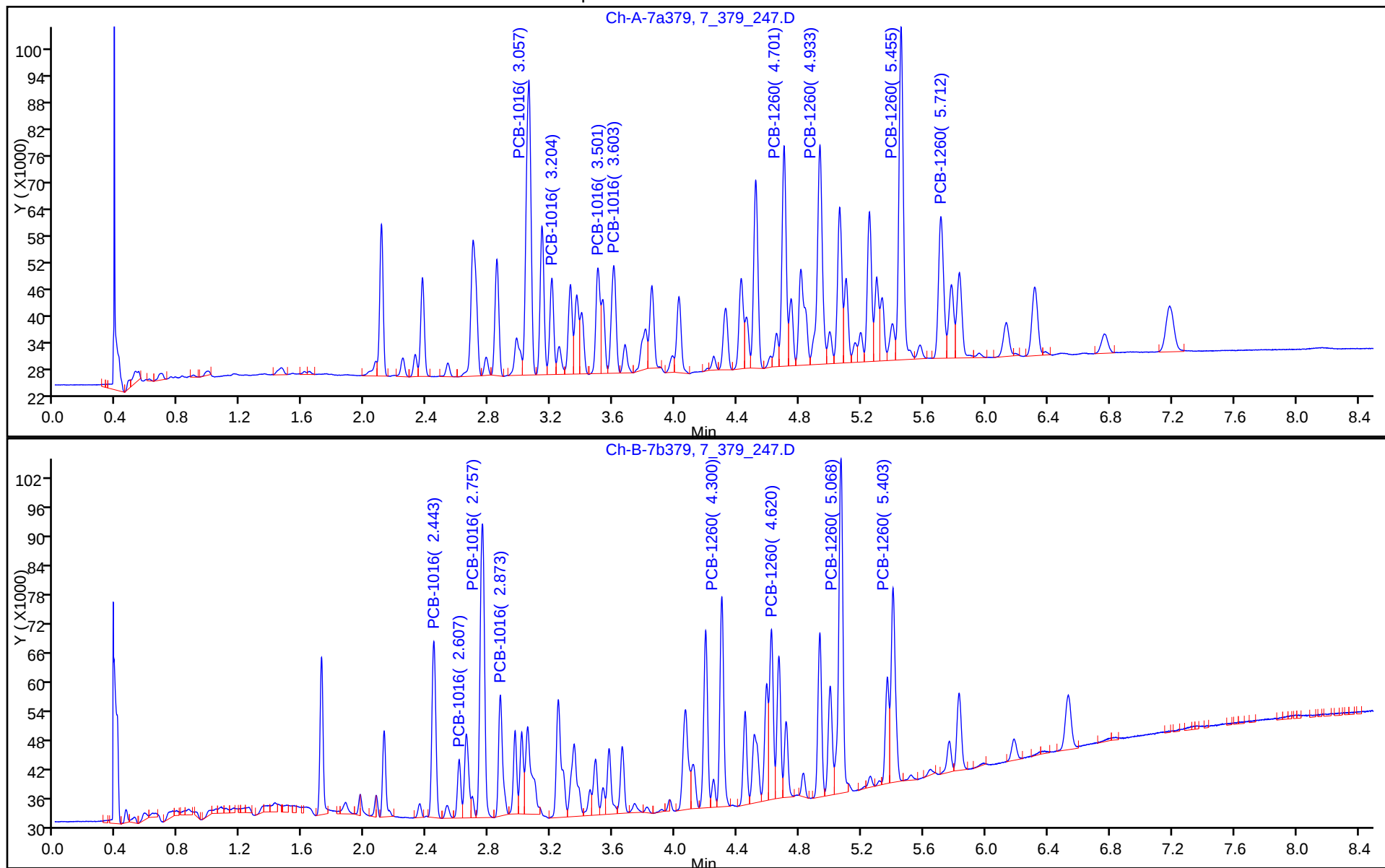
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_247.D

Injection Date: 06-Aug-2015 22:20:58

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

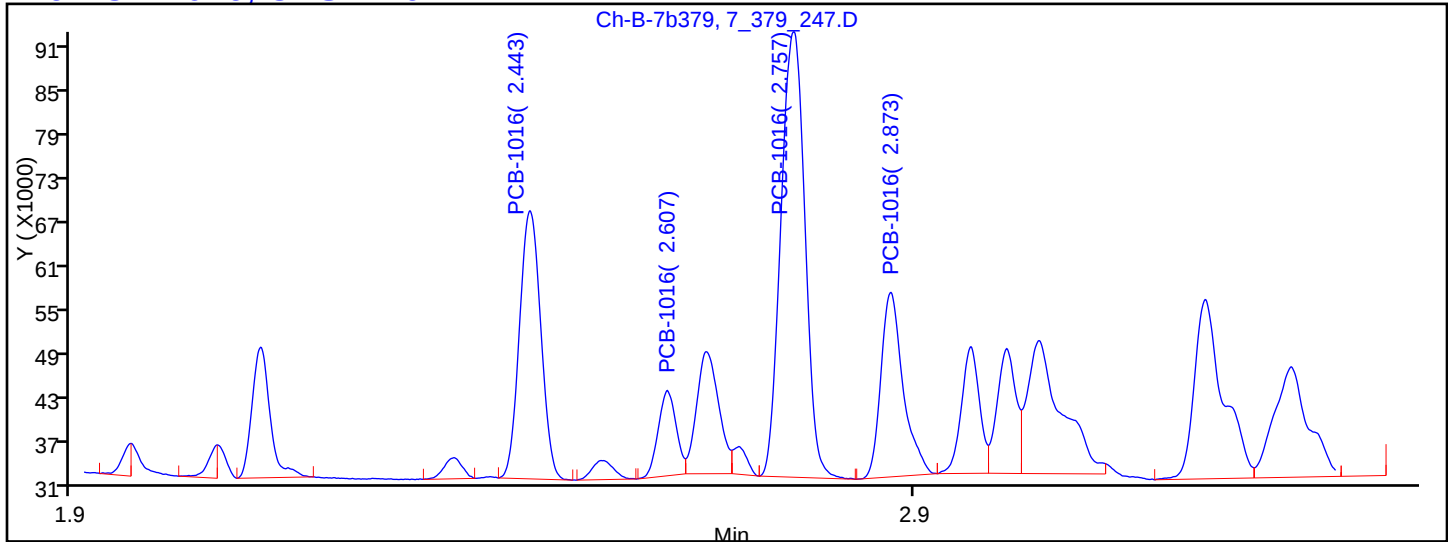
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.443 Response = 64047

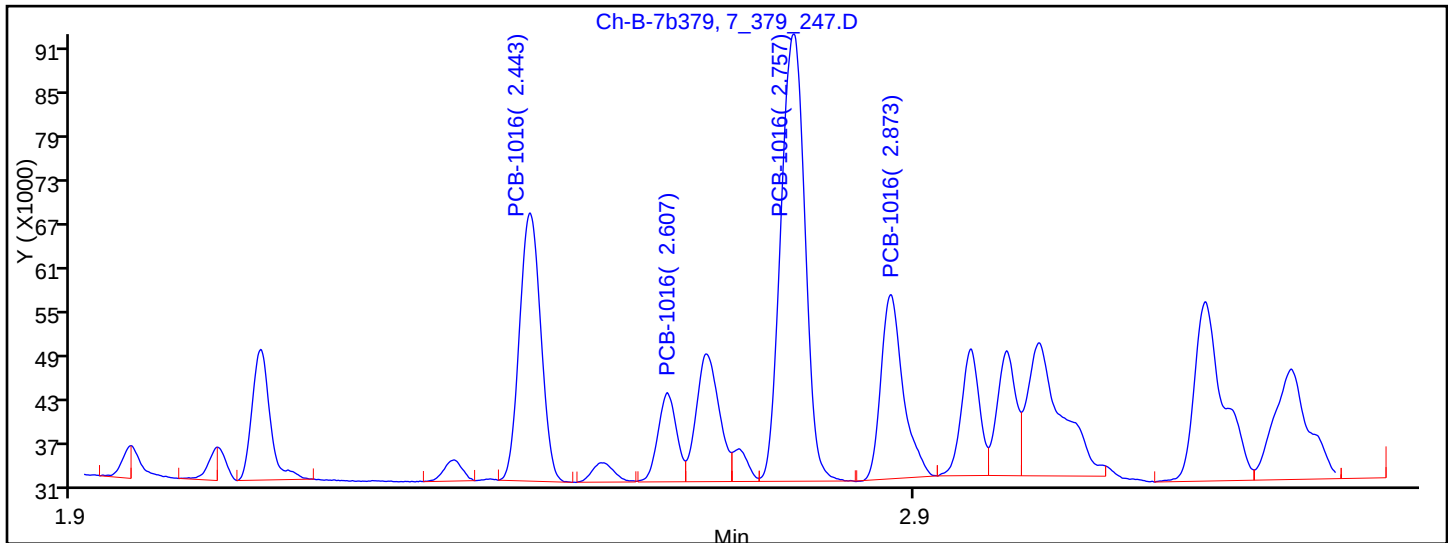
RT = 2.607 Response = 17200

RT = 2.757 Response = 120474

RT = 2.873 Response = 45955

M

M



Manual Integration Results

RT = 2.443 Response = 64047

RT = 2.607 Response = 18681

RT = 2.757 Response = 121645

RT = 2.873 Response = 45955

M

M

Reviewer: larsonj, 07-Aug-2015 09:12:16

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 06-Aug-2015 22:36:48 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:13 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 08:46:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.105	2.105	0.000	21784	0.000500	0.000548	a
2	1.719	1.719	0.000	19437	0.000500	0.000567	a
RPD = 3.41							

6 PCB-1016

1	3.055	3.055	0.000	60696	0.0200	0.0224	M
1	3.203	3.203	0.000	16047	0.0200	0.0229	M
1	3.502	3.502	0.000	19009	0.0200	0.0233	M
1	3.603	3.603	0.000	21487	0.0200	0.0234	M
Average of Peak Amounts =							0.0230
2	2.443	2.443	0.000	26390	0.0200	0.0225	
2	2.606	2.606	0.000	7511	0.0200	0.0220	M
2	2.756	2.756	0.000	50337	0.0200	0.0218	M
2	2.872	2.872	0.000	18760	0.0200	0.0216	
Average of Peak Amounts =							0.0220
RPD = 4.55							

9 PCB-1260

1	4.701	4.701	0.000	37424	0.0200	0.0219	a
1	4.930	4.930	0.000	45824	0.0200	0.0219	a
1	5.454	5.454	0.000	63804	0.0200	0.0225	
1	5.712	5.712	0.000	30867	0.0200	0.0227	
Average of Peak Amounts =							0.0223
2	4.299	4.299	0.000	30422	0.0200	0.0215	a
2	4.619	4.619	0.000	24340	0.0200	0.0205	a
2	5.068	5.068	0.000	55142	0.0200	0.0212	M
2	5.404	5.404	0.000	31967	0.0200	0.0207	
Average of Peak Amounts =							0.0210
RPD = 5.99							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl M
1 7.188 7.188 0.000 15404 0.000500 0.000597 M
2 6.536 6.536 0.000 11341 0.000500 0.000518 a
RPD = 14.17

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00007

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Injection Date: 06-Aug-2015 22:36:48

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 8

Client ID:

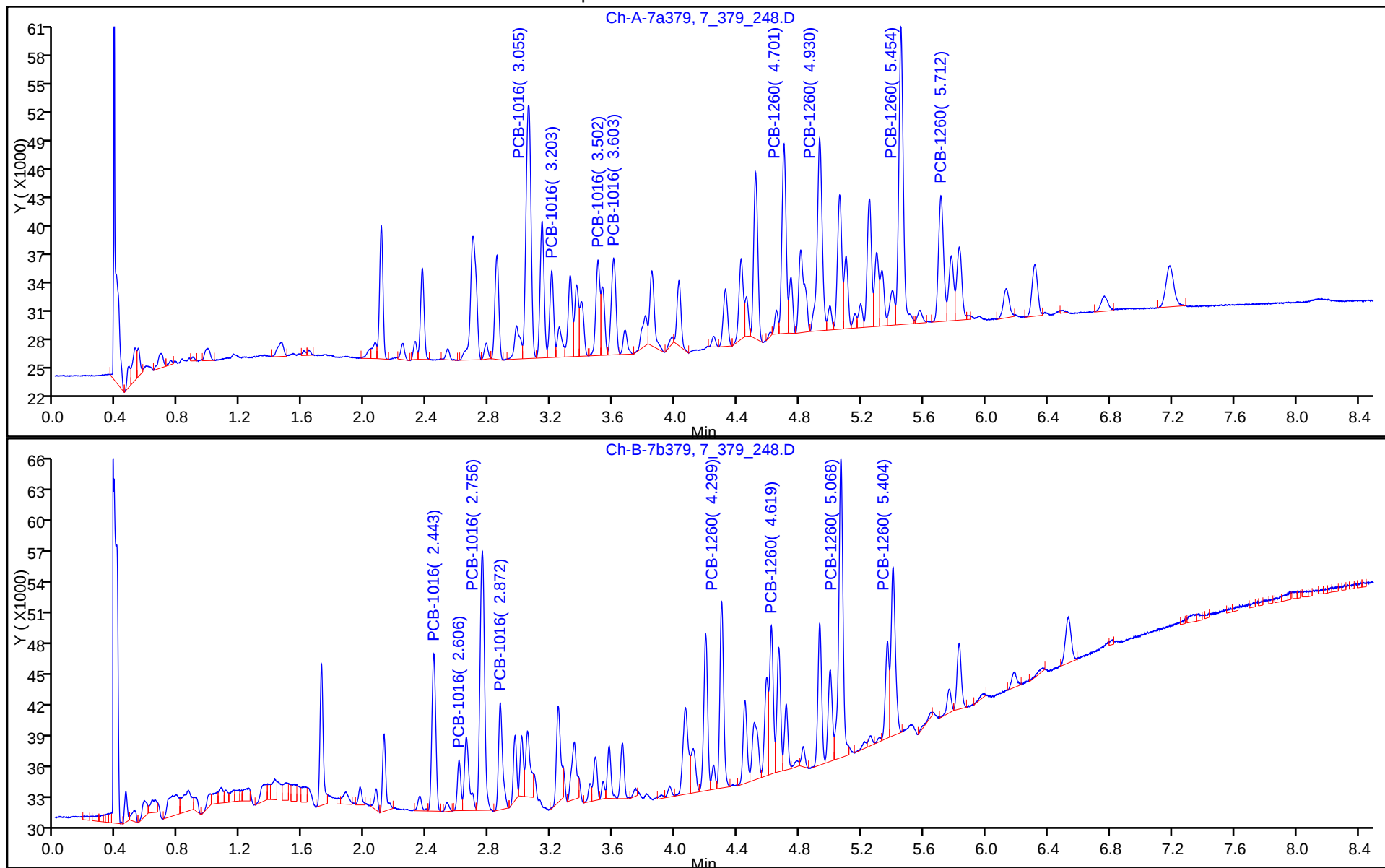
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Injection Date: 06-Aug-2015 22:36:48

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

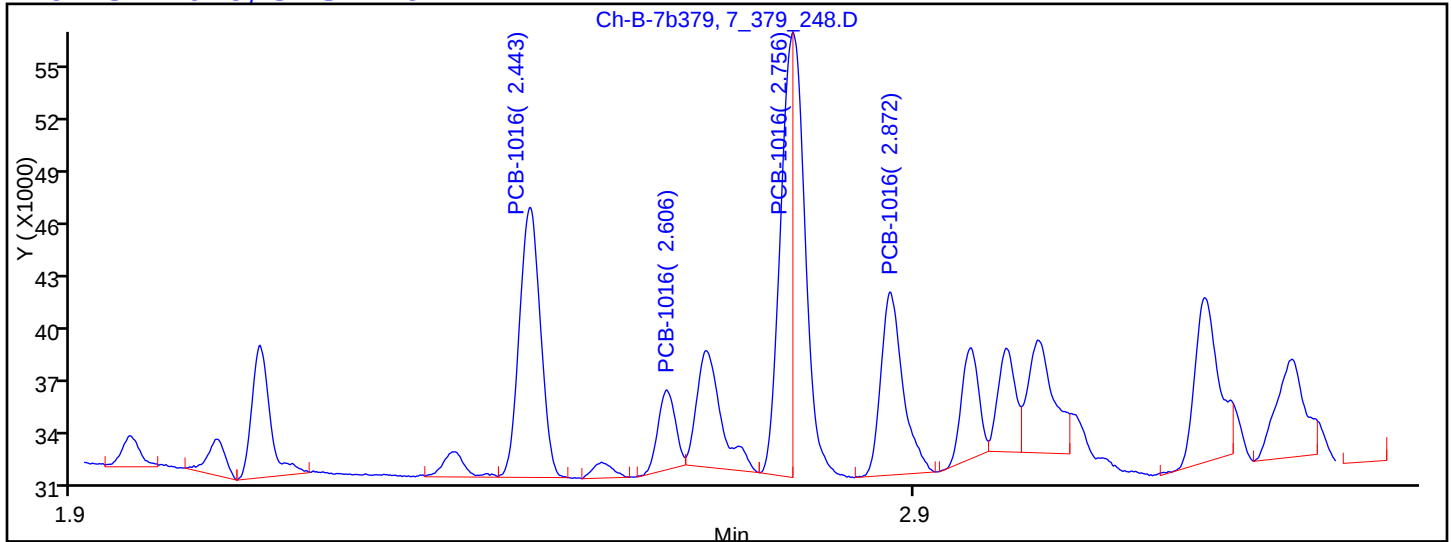
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.443 Response = 26390

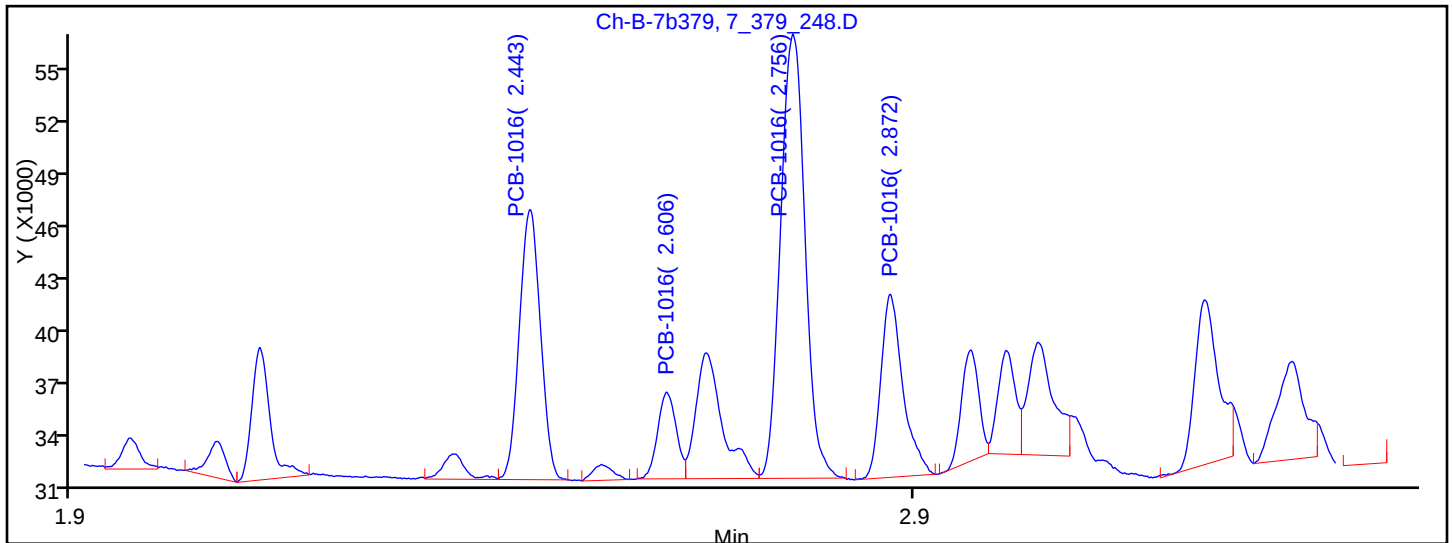
RT = 2.606 Response = 6448

M

RT = 2.756 Response = 24748

M

RT = 2.872 Response = 18760



Manual Integration Results

RT = 2.443 Response = 26390

RT = 2.606 Response = 7511

M

RT = 2.756 Response = 50337

M

RT = 2.872 Response = 18760

Reviewer: larsonj, 07-Aug-2015 09:15:16

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_248.D

Injection Date: 06-Aug-2015 22:36:48

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

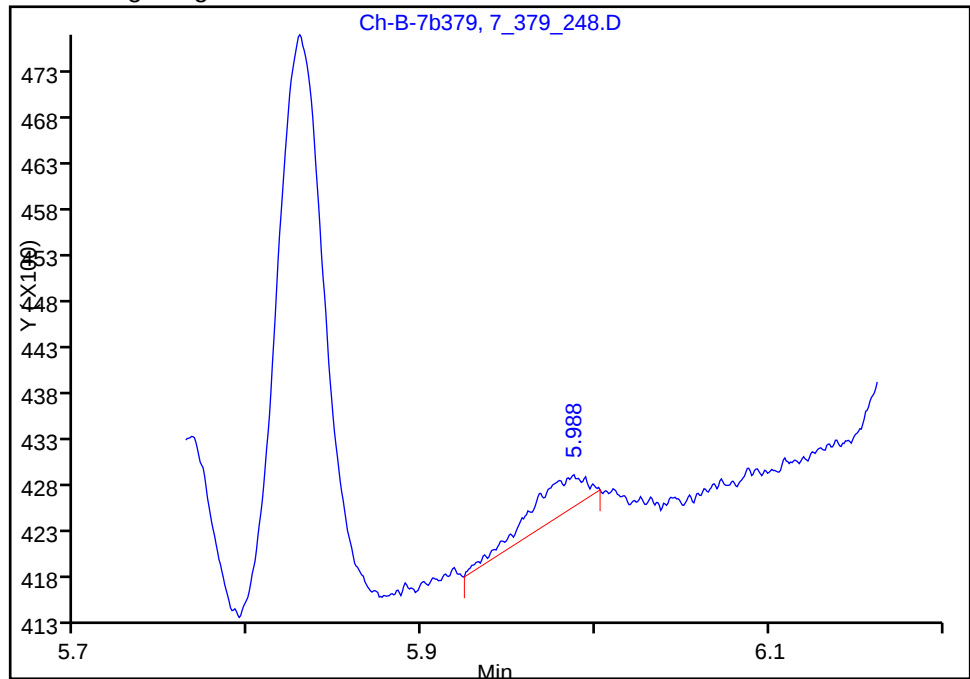
Column:

Detector Ch-B-7b136

\$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

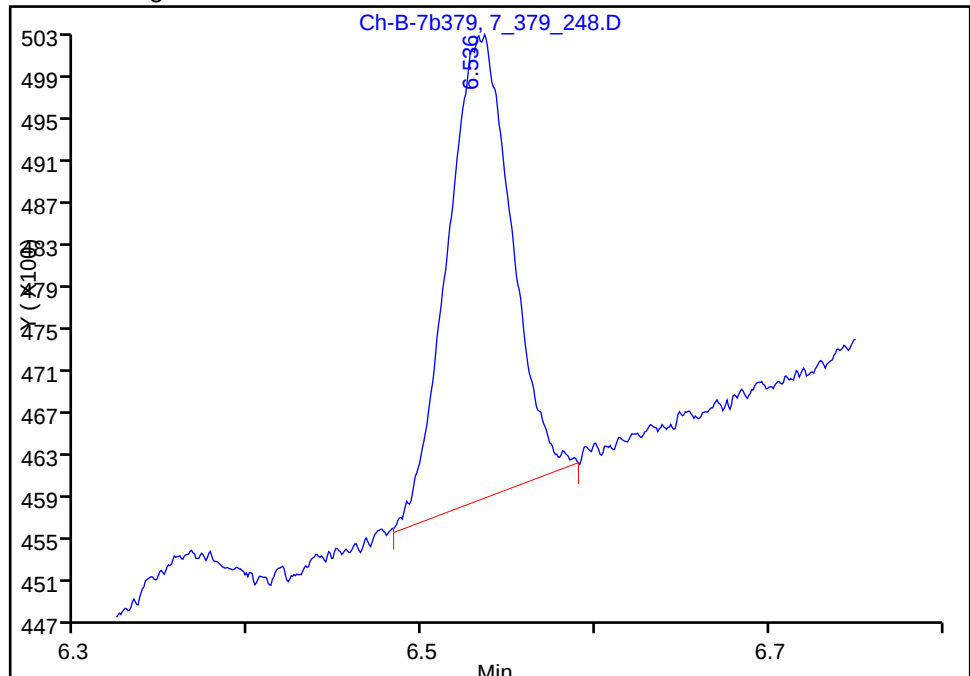
RT: 5.99
Area: 921
Amount: 0.000199
Amount Units: ng/uL

Processing Integration Results



RT: 6.54
Area: 11341
Amount: 0.000518
Amount Units: ng/uL

Manual Integration Results



Reviewer: larsonj, 07-Aug-2015 11:11:08

Audit Action: Assigned Compound ID

Audit Reason:

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 23:08 Calibration End Date: 08/06/2015 23:40 Calibration ID: 24463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/12	7_379_252.D
Level 2	STD2 480-257541/11	7_379_251.D
Level 3	STD3 480-257541/10	7_379_250.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1221 Peak 1	+++++	1.643	+++++								1.613 - 1.673	1.643
PCB-1221 Peak 2	+++++	2.245	+++++								2.213 - 2.273	2.245
PCB-1221 Peak 3	+++++	2.323	+++++								2.292 - 2.352	2.323
PCB-1221 Peak 4	+++++	2.371	+++++								2.339 - 2.399	2.371
PCB-1254 Peak 1	+++++	4.026	+++++								3.995 - 4.055	4.026
PCB-1254 Peak 2	+++++	4.329	+++++								4.295 - 4.355	4.329
PCB-1254 Peak 3	+++++	4.528	+++++								4.495 - 4.555	4.528
PCB-1254 Peak 4	+++++	4.933	+++++								4.901 - 4.961	4.933

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 23:08 Calibration End Date: 08/06/2015 23:40 Calibration ID: 24463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/12	7_379_252.D
Level 2	STD2 480-257541/11	7_379_251.D
Level 3	STD3 480-257541/10	7_379_250.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1221 Peak 1	+++++	234274	+++++		Ave		234274.000						20.0			
PCB-1221 Peak 2	+++++	352202	+++++		Ave		352202.000						20.0			
PCB-1221 Peak 3	+++++	220430	+++++		Ave		220430.000						20.0			
PCB-1221 Peak 4	+++++	809064	+++++		Ave		809064.000						20.0			
PCB-1254 Peak 1	+++++	1749134	+++++		Ave		1749134.00						20.0			
PCB-1254 Peak 2	+++++	2028854	+++++		Ave		2028854.00						20.0			
PCB-1254 Peak 3	+++++	2038310	+++++		Ave		2038310.00						20.0			
PCB-1254 Peak 4	+++++	1620280	+++++		Ave		1620280.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 23:08 Calibration End Date: 08/06/2015 23:40 Calibration ID: 24463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/12	7_379_252.D
Level 2	STD2 480-257541/11	7_379_251.D
Level 3	STD3 480-257541/10	7_379_250.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	Ave	+++++	117137	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	Ave	+++++	176101	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	Ave	+++++	110215	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	Ave	+++++	404532	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	Ave	+++++	874567	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	Ave	+++++	1014427	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	Ave	+++++	1019155	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	Ave	+++++	810140	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_250.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 06-Aug-2015 23:08:22 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:21 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 08:38:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

1	1.643	1.643	0.000	406058	2.00	1.73	a
1	2.244	2.243	0.001	642022	2.00	1.82	a
1	2.322	2.322	0.000	387801	2.00	1.76	a
1	2.369	2.369	0.000	1457244	2.00	1.80	a

Average of Peak Amounts = 1.78

2	1.440	1.439	0.001	407856	2.00	1.58	a
2	1.969	1.968	0.001	610517	2.00	1.87	a
2	2.073	2.071	0.002	370563	2.00	1.84	a
2	2.123	2.123	0.000	1211894	2.00	2.15	a

Average of Peak Amounts = 1.86

RPD = 4.35

8 PCB-1254

1	4.024	4.025	-0.001	3353169	2.00	1.92	a
1	4.328	4.325	0.003	3958584	2.00	1.95	a
1	4.526	4.525	0.001	4011524	2.00	1.97	a
1	4.932	4.931	0.001	3415914	2.00	2.11	a

Average of Peak Amounts = 1.99

2	3.659	3.659	0.000	2358099	2.00	1.99	a
2	4.051	4.051	0.000	3695130	2.00	2.05	a
2	4.181	4.182	-0.001	3608511	2.00	2.03	a
2	4.619	4.618	0.001	3049180	2.00	2.04	a

Average of Peak Amounts = 2.03

RPD = 2.07

Reagents:

1221-1254 2.0_00005

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_250.D

Injection Date: 06-Aug-2015 23:08:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 10

Client ID:

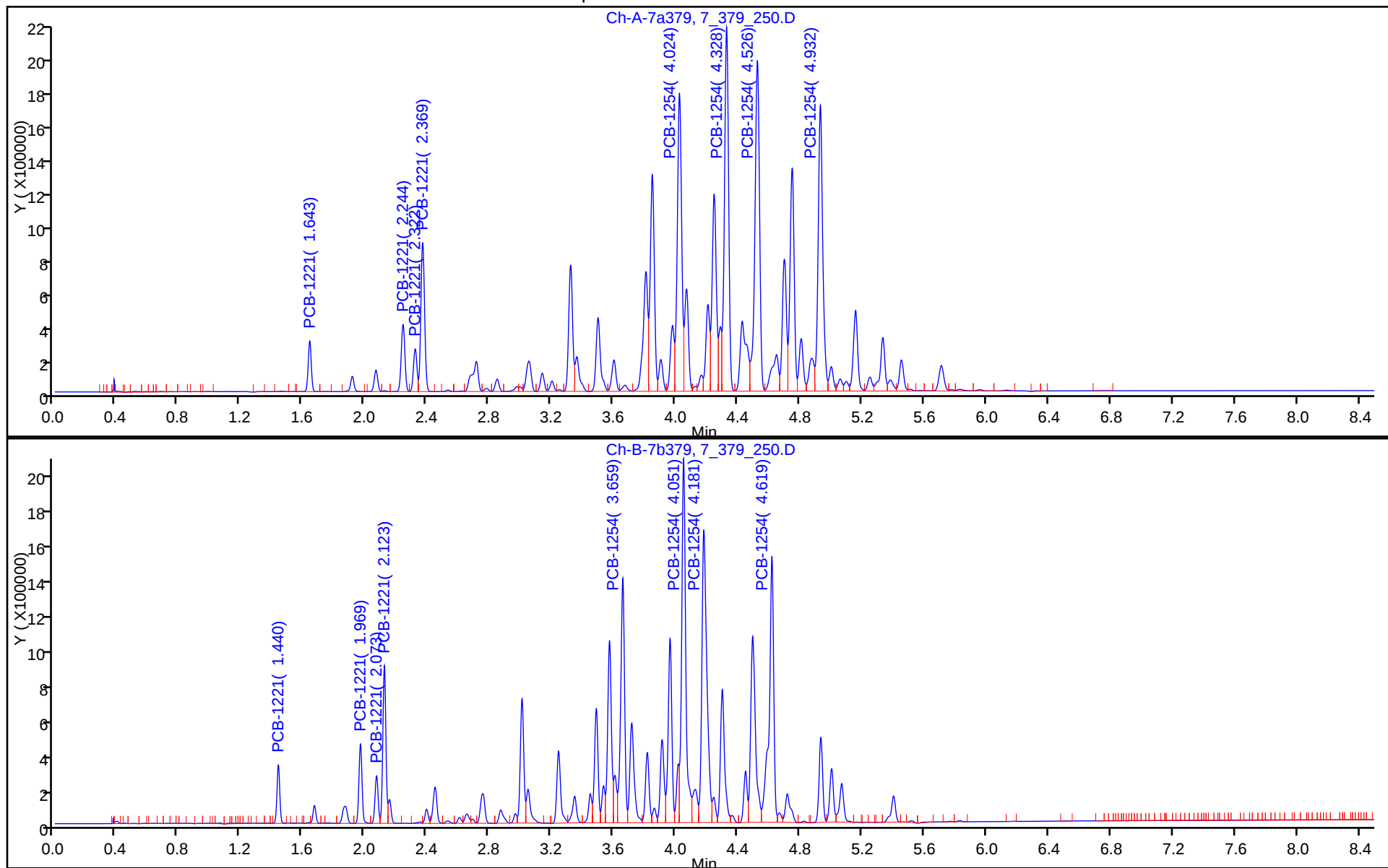
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_251.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 06-Aug-2015 23:24:27 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:24 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 11:45:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

M

1	1.643	1.643	0.001	117137	0.5000	0.5000	
1	2.245	2.243	0.002	176101	0.5000	0.5000	
1	2.323	2.322	0.000	110215	0.5000	0.5000	
1	2.371	2.369	0.002	404532	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.440	1.439	0.001	129329	0.5000	0.5000	
2	1.969	1.968	0.001	163184	0.5000	0.5000	M
2	2.073	2.071	0.001	100913	0.5000	0.5000	
2	2.123	2.123	-0.001	281912	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

8 PCB-1254

1	4.026	4.025	0.001	874567	0.5000	0.5000	
1	4.329	4.325	0.004	1014427	0.5000	0.5000	
1	4.528	4.525	0.003	1019155	0.5000	0.5000	
1	4.933	4.931	0.002	810140	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.659	3.659	0.000	592223	0.5000	0.5000	
2	4.051	4.051	0.000	901169	0.5000	0.5000	
2	4.182	4.182	0.000	889157	0.5000	0.5000	
2	4.620	4.618	0.002	747318	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1221-1254 2.0_00005

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_251.D

Injection Date: 06-Aug-2015 23:24:27

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 11

Client ID:

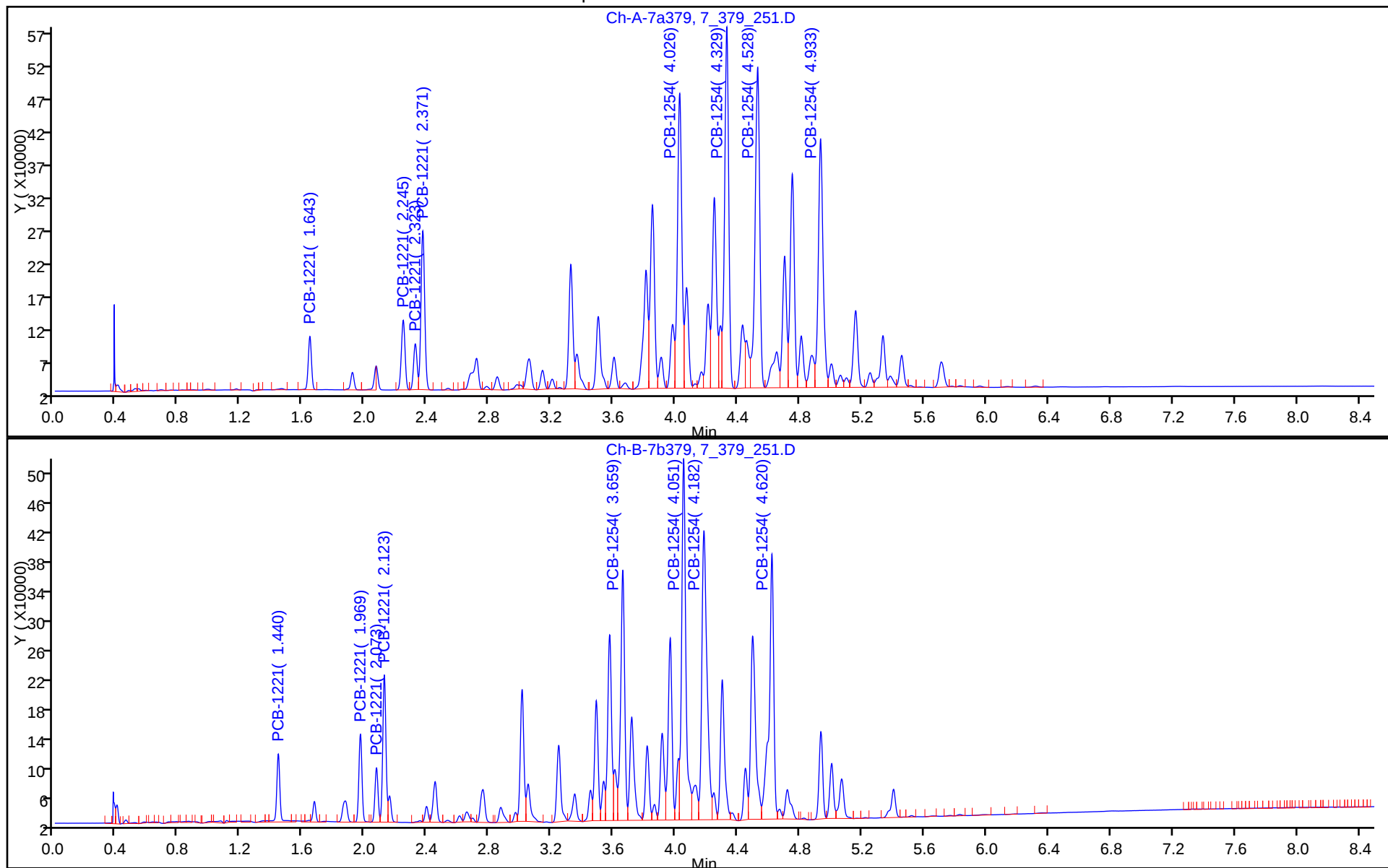
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 06-Aug-2015 23:40:12 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:26 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 11:41:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221 M

1	1.643	1.643	0.000	7706	0.0200	0.0329	a
1	2.243	2.243	0.000	9707	0.0200	0.0276	a
1	2.322	2.322	0.000	5847	0.0200	0.0265	a
1	2.369	2.369	0.000	22377	0.0200	0.0277	a

Average of Peak Amounts = 0.0287

2	1.439	1.439	0.000	7437	0.0200	0.0288	M
2	1.968	1.968	0.000	7771	0.0200	0.0238	M
2	2.071	2.071	0.000	5417	0.0200	0.0268	a
2	2.123	2.123	0.000	13042	0.0200	0.0231	a

Average of Peak Amounts = 0.0256

RPD = 11.15

8 PCB-1254 M

1	4.025	4.025	0.000	43318	0.0200	0.0248	M
1	4.325	4.325	0.000	47169	0.0200	0.0232	M
1	4.525	4.525	0.000	47717	0.0200	0.0234	M
1	4.931	4.931	0.000	40854	0.0200	0.0252	M

Average of Peak Amounts = 0.0242

2	3.659	3.659	0.000	27895	0.0200	0.0236	M
2	4.051	4.051	0.000	39421	0.0200	0.0219	M
2	4.182	4.182	0.000	39297	0.0200	0.0221	M
2	4.618	4.618	0.000	32469	0.0200	0.0217	a

Average of Peak Amounts = 0.0223

RPD = 7.96

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1221-1254 2.0_00005

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D

Injection Date: 06-Aug-2015 23:40:12

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 12

Client ID:

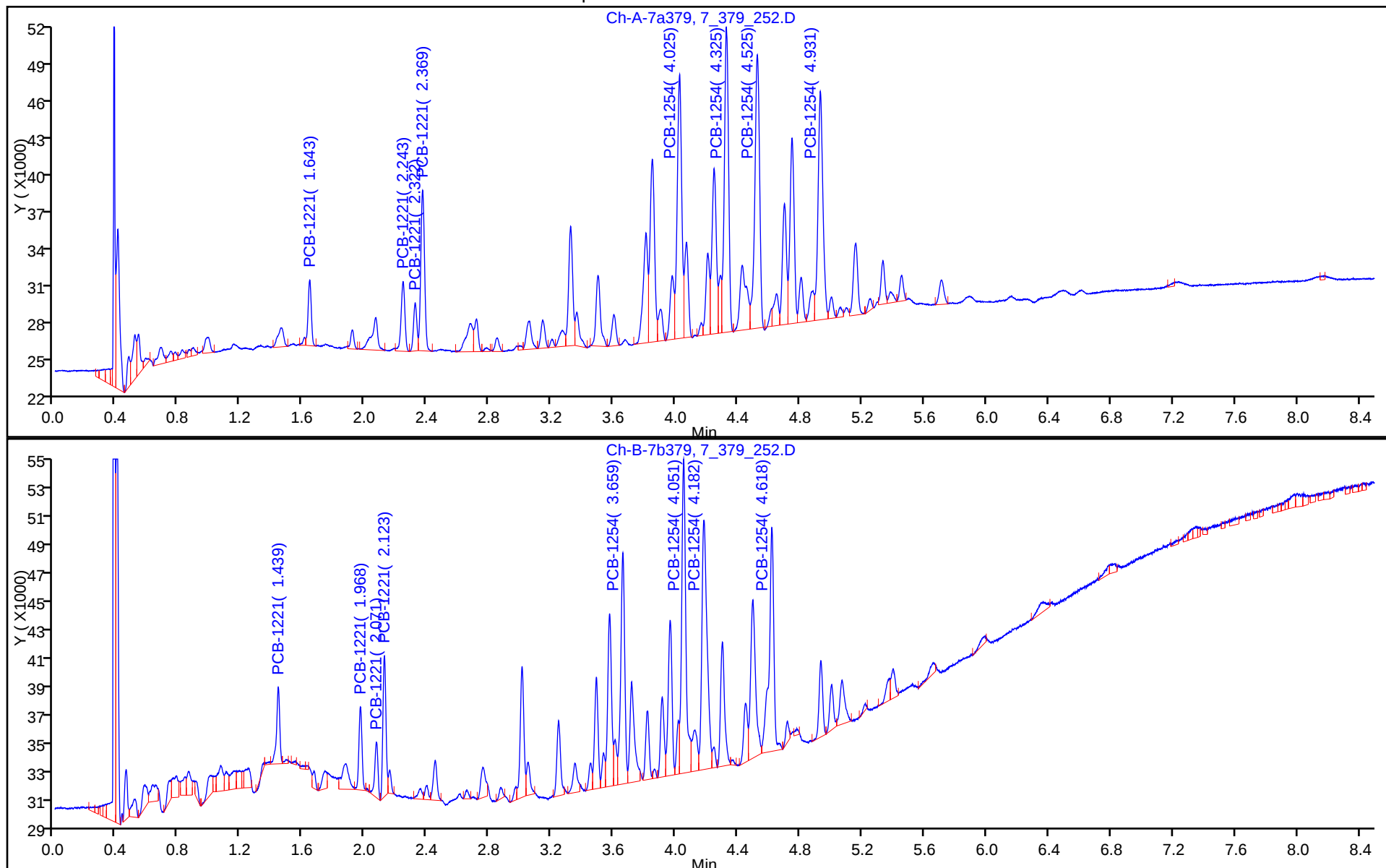
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D

Injection Date: 06-Aug-2015 23:40:12

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 12

Injection Vol: 1.0 ul

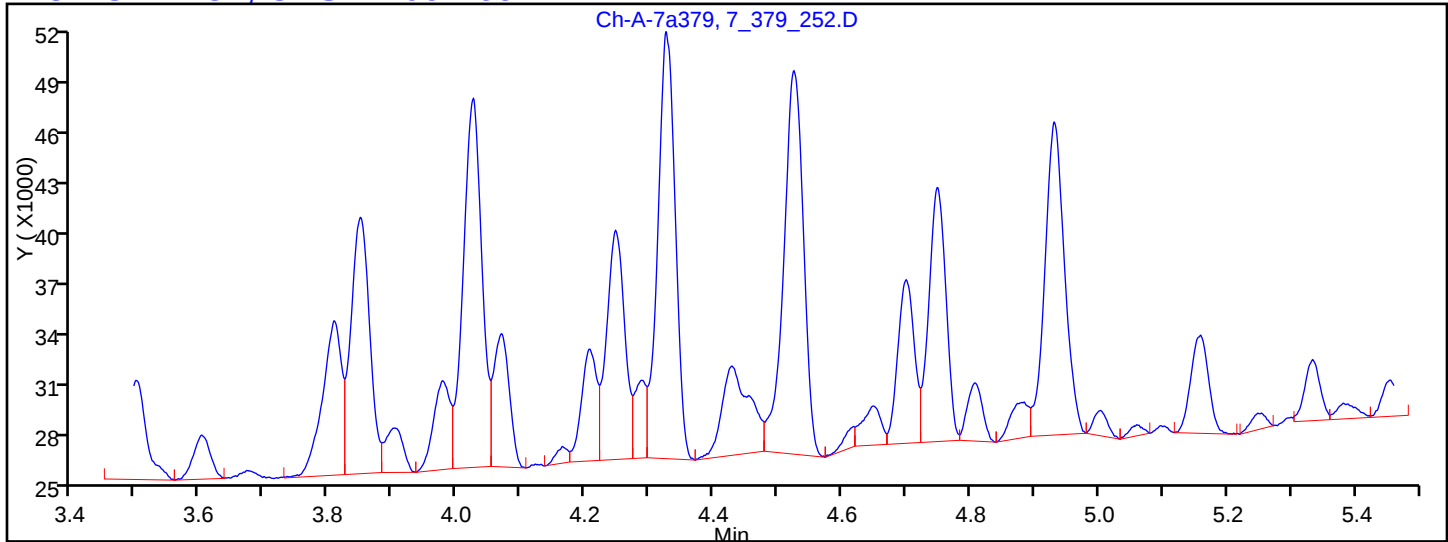
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

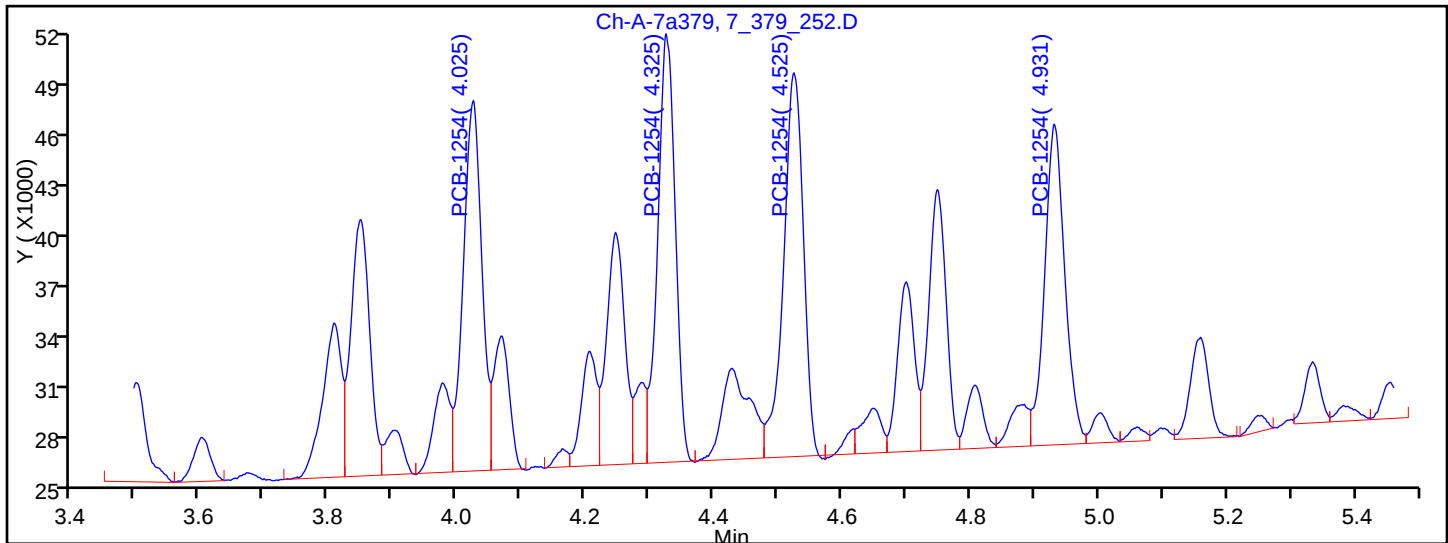
Column:

Detector Ch-A-7A136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

RT = 3.601	Response = 4715	M
RT = 3.808	Response = 18600	M
RT = 3.903	Response = 4992	M
RT = 4.069	Response = 12935	M



Manual Integration Results

RT = 4.025	Response = 43318	M
RT = 4.325	Response = 47169	M
RT = 4.525	Response = 47717	M
RT = 4.931	Response = 40854	M

Reviewer: larsonj, 07-Aug-2015 11:57:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 23:08 Calibration End Date: 08/06/2015 23:40 Calibration ID: 24464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/12	7_379_252.D
Level 2	STD2 480-257541/11	7_379_251.D
Level 3	STD3 480-257541/10	7_379_250.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1221 Peak 1	+++++	1.440	+++++								1.409 - 1.469	1.440
PCB-1221 Peak 2	+++++	1.969	+++++								1.938 - 1.998	1.969
PCB-1221 Peak 3	+++++	2.073	+++++								2.041 - 2.101	2.073
PCB-1221 Peak 4	+++++	2.123	+++++								2.093 - 2.153	2.123
PCB-1254 Peak 1	+++++	3.659	+++++								3.629 - 3.689	3.659
PCB-1254 Peak 2	+++++	4.051	+++++								4.021 - 4.081	4.051
PCB-1254 Peak 3	+++++	4.182	+++++								4.152 - 4.212	4.182
PCB-1254 Peak 4	+++++	4.620	+++++								4.588 - 4.648	4.620

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 23:08 Calibration End Date: 08/06/2015 23:40 Calibration ID: 24464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/12	7_379_252.D
Level 2	STD2 480-257541/11	7_379_251.D
Level 3	STD3 480-257541/10	7_379_250.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1221 Peak 1	+++++	258658	+++++		Ave		258658.000						20.0			
PCB-1221 Peak 2	+++++	326368	+++++		Ave		326368.000						20.0			
PCB-1221 Peak 3	+++++	201826	+++++		Ave		201826.000						20.0			
PCB-1221 Peak 4	+++++	563824	+++++		Ave		563824.000						20.0			
PCB-1254 Peak 1	+++++	1184446	+++++		Ave		1184446.00						20.0			
PCB-1254 Peak 2	+++++	1802338	+++++		Ave		1802338.00						20.0			
PCB-1254 Peak 3	+++++	1778314	+++++		Ave		1778314.00						20.0			
PCB-1254 Peak 4	+++++	1494636	+++++		Ave		1494636.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/06/2015 23:08 Calibration End Date: 08/06/2015 23:40 Calibration ID: 24464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/12	7_379_252.D
Level 2	STD2 480-257541/11	7_379_251.D
Level 3	STD3 480-257541/10	7_379_250.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	Ave	+++++	129329	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	Ave	+++++	163184	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	Ave	+++++	100913	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	Ave	+++++	281912	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	Ave	+++++	592223	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	Ave	+++++	901169	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	Ave	+++++	889157	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	Ave	+++++	747318	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_250.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 06-Aug-2015 23:08:22 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:21 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 08:38:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

1	1.643	1.643	0.000	406058	2.00	1.73	a
1	2.244	2.243	0.001	642022	2.00	1.82	a
1	2.322	2.322	0.000	387801	2.00	1.76	a
1	2.369	2.369	0.000	1457244	2.00	1.80	a

Average of Peak Amounts = 1.78

2	1.440	1.439	0.001	407856	2.00	1.58	a
2	1.969	1.968	0.001	610517	2.00	1.87	a
2	2.073	2.071	0.002	370563	2.00	1.84	a
2	2.123	2.123	0.000	1211894	2.00	2.15	a

Average of Peak Amounts = 1.86

RPD = 4.35

8 PCB-1254

1	4.024	4.025	-0.001	3353169	2.00	1.92	a
1	4.328	4.325	0.003	3958584	2.00	1.95	a
1	4.526	4.525	0.001	4011524	2.00	1.97	a
1	4.932	4.931	0.001	3415914	2.00	2.11	a

Average of Peak Amounts = 1.99

2	3.659	3.659	0.000	2358099	2.00	1.99	a
2	4.051	4.051	0.000	3695130	2.00	2.05	a
2	4.181	4.182	-0.001	3608511	2.00	2.03	a
2	4.619	4.618	0.001	3049180	2.00	2.04	a

Average of Peak Amounts = 2.03

RPD = 2.07

Reagents:

1221-1254 2.0_00005

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_250.D

Injection Date: 06-Aug-2015 23:08:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 10

Client ID:

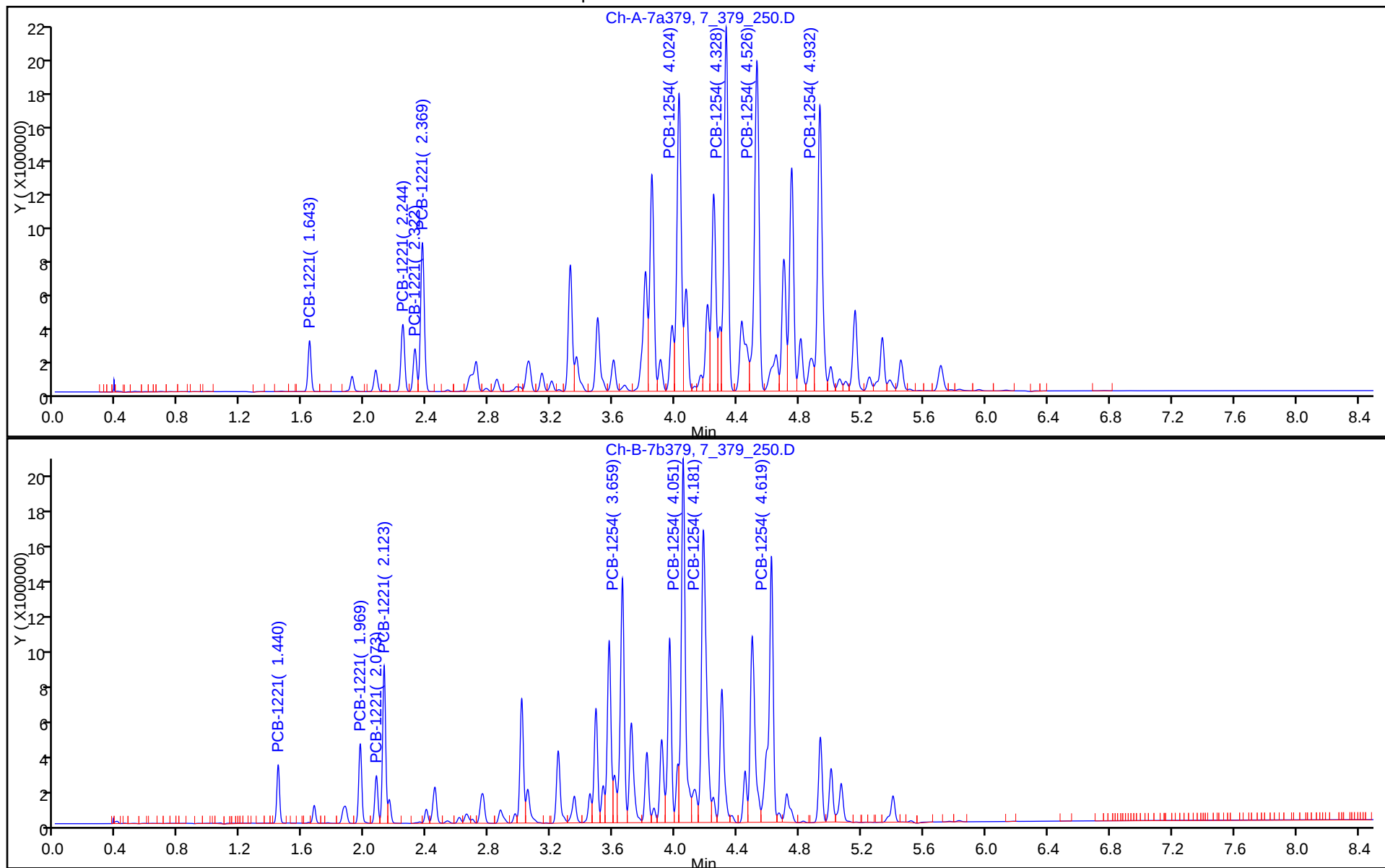
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_251.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 06-Aug-2015 23:24:27 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:24 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 11:45:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

1	1.643	1.643	0.001	117137	0.5000	0.5000	M
1	2.245	2.243	0.002	176101	0.5000	0.5000	
1	2.323	2.322	0.000	110215	0.5000	0.5000	
1	2.371	2.369	0.002	404532	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.440	1.439	0.001	129329	0.5000	0.5000	
2	1.969	1.968	0.001	163184	0.5000	0.5000	M
2	2.073	2.071	0.001	100913	0.5000	0.5000	
2	2.123	2.123	-0.001	281912	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

8 PCB-1254

1	4.026	4.025	0.001	874567	0.5000	0.5000	
1	4.329	4.325	0.004	1014427	0.5000	0.5000	
1	4.528	4.525	0.003	1019155	0.5000	0.5000	
1	4.933	4.931	0.002	810140	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.659	3.659	0.000	592223	0.5000	0.5000	
2	4.051	4.051	0.000	901169	0.5000	0.5000	
2	4.182	4.182	0.000	889157	0.5000	0.5000	
2	4.620	4.618	0.002	747318	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1221-1254 2.0_00005

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_251.D

Injection Date: 06-Aug-2015 23:24:27

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 11

Client ID:

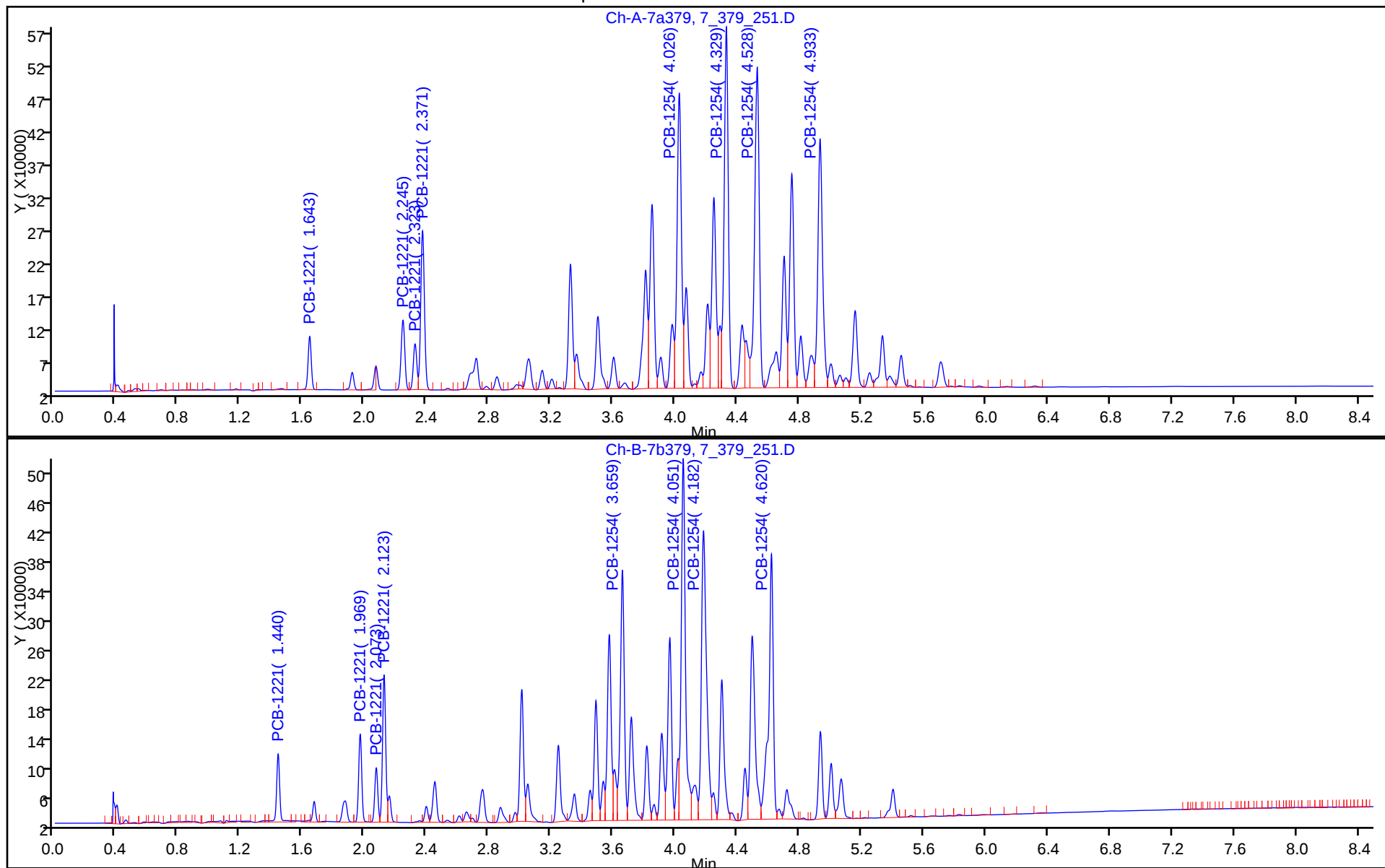
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_251.D

Injection Date: 06-Aug-2015 23:24:27

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 11

Injection Vol: 1.0 ul

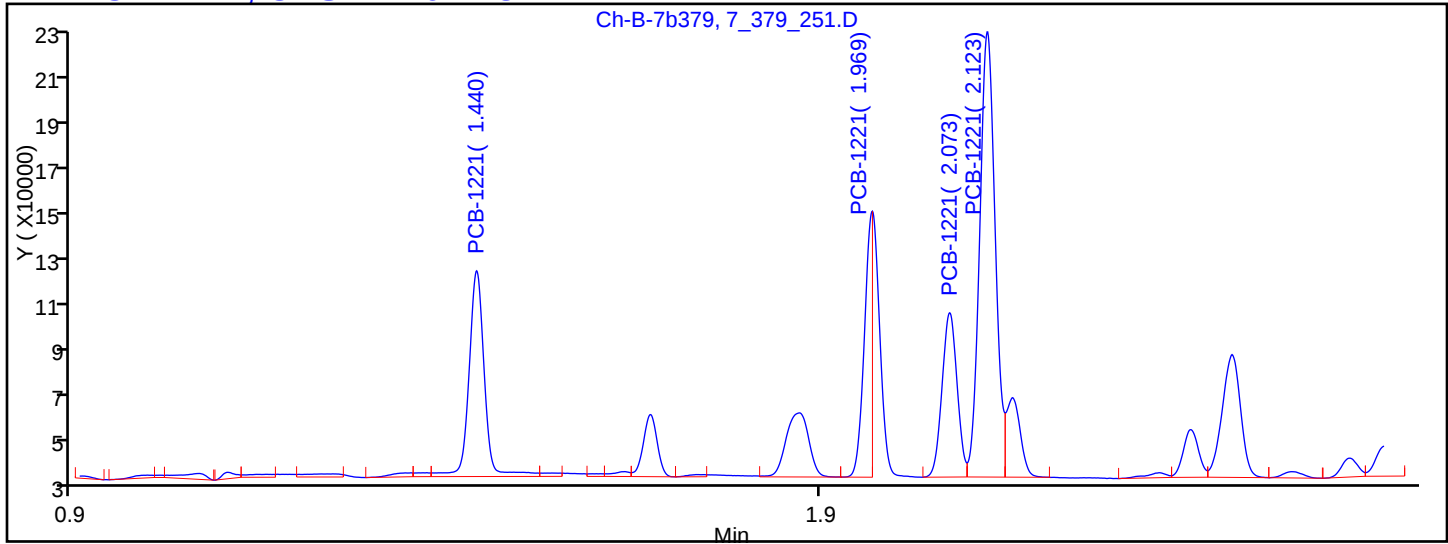
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

2 PCB-1221, CAS: 11104-28-2

Processing Integration Results

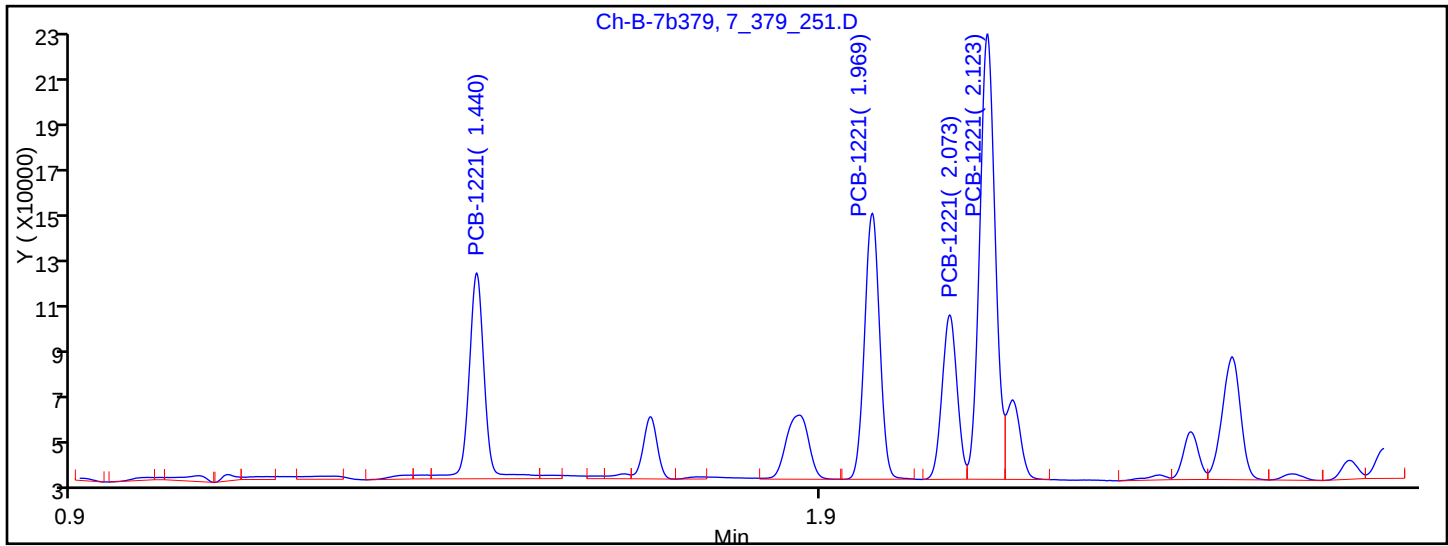
RT = 1.440 Response = 129329

RT = 1.969 Response = 83549

RT = 2.073 Response = 100913

RT = 2.123 Response = 281912

M



Manual Integration Results

RT = 1.440 Response = 129329

RT = 1.969 Response = 163184

RT = 2.073 Response = 100913

RT = 2.123 Response = 281912

M

Reviewer: larsonj, 07-Aug-2015 11:56:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 06-Aug-2015 23:40:12 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:26 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 11:41:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221 M

1	1.643	1.643	0.000	7706	0.0200	0.0329	a
1	2.243	2.243	0.000	9707	0.0200	0.0276	a
1	2.322	2.322	0.000	5847	0.0200	0.0265	a
1	2.369	2.369	0.000	22377	0.0200	0.0277	a

Average of Peak Amounts = 0.0287

2	1.439	1.439	0.000	7437	0.0200	0.0288	M
2	1.968	1.968	0.000	7771	0.0200	0.0238	M
2	2.071	2.071	0.000	5417	0.0200	0.0268	a
2	2.123	2.123	0.000	13042	0.0200	0.0231	a

Average of Peak Amounts = 0.0256

RPD = 11.15

8 PCB-1254 M

1	4.025	4.025	0.000	43318	0.0200	0.0248	M
1	4.325	4.325	0.000	47169	0.0200	0.0232	M
1	4.525	4.525	0.000	47717	0.0200	0.0234	M
1	4.931	4.931	0.000	40854	0.0200	0.0252	M

Average of Peak Amounts = 0.0242

2	3.659	3.659	0.000	27895	0.0200	0.0236	M
2	4.051	4.051	0.000	39421	0.0200	0.0219	M
2	4.182	4.182	0.000	39297	0.0200	0.0221	M
2	4.618	4.618	0.000	32469	0.0200	0.0217	a

Average of Peak Amounts = 0.0223

RPD = 7.96

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1221-1254 2.0_00005

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D

Injection Date: 06-Aug-2015 23:40:12

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 12

Client ID:

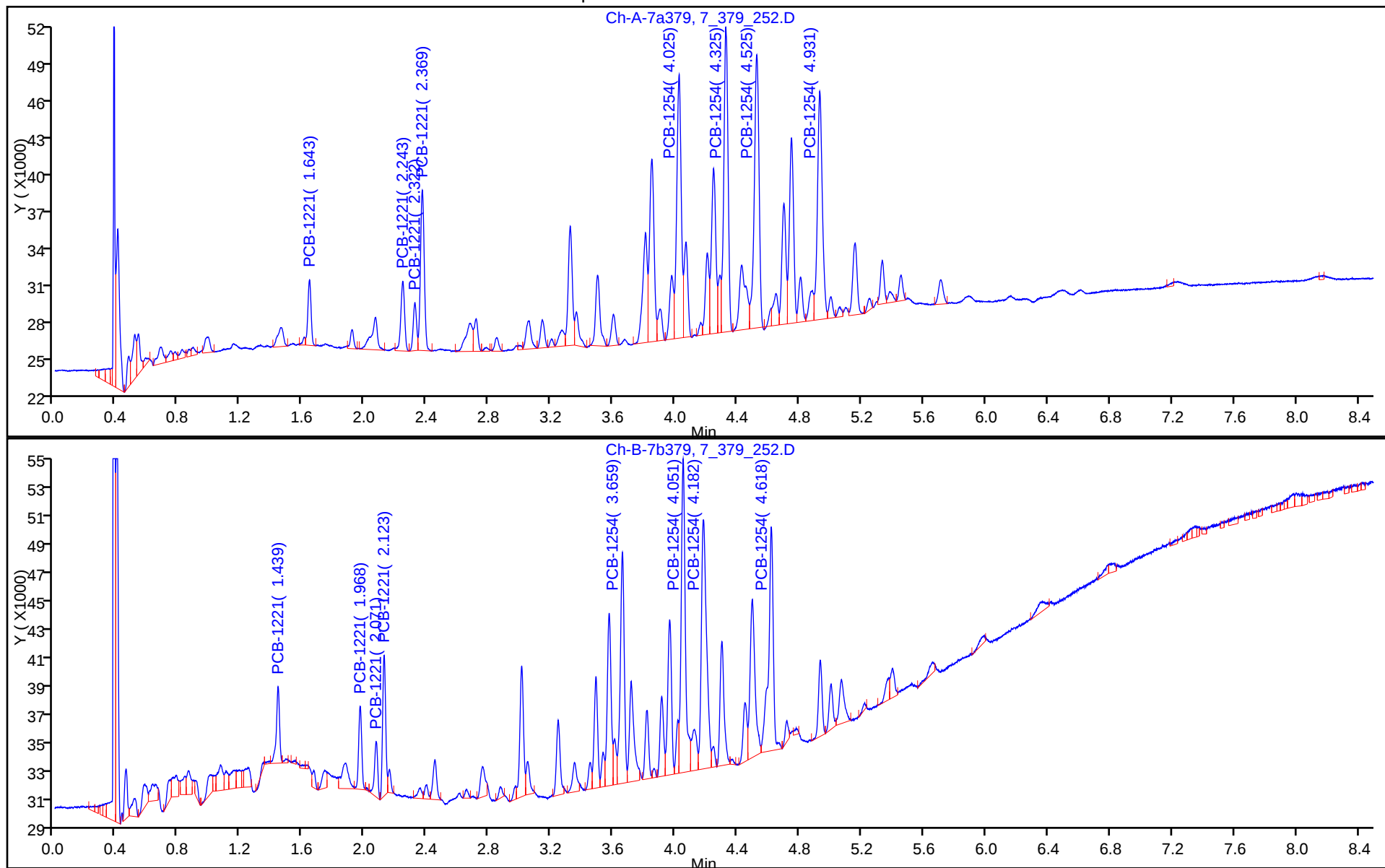
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D

Injection Date: 06-Aug-2015 23:40:12

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 12

Injection Vol: 1.0 ul

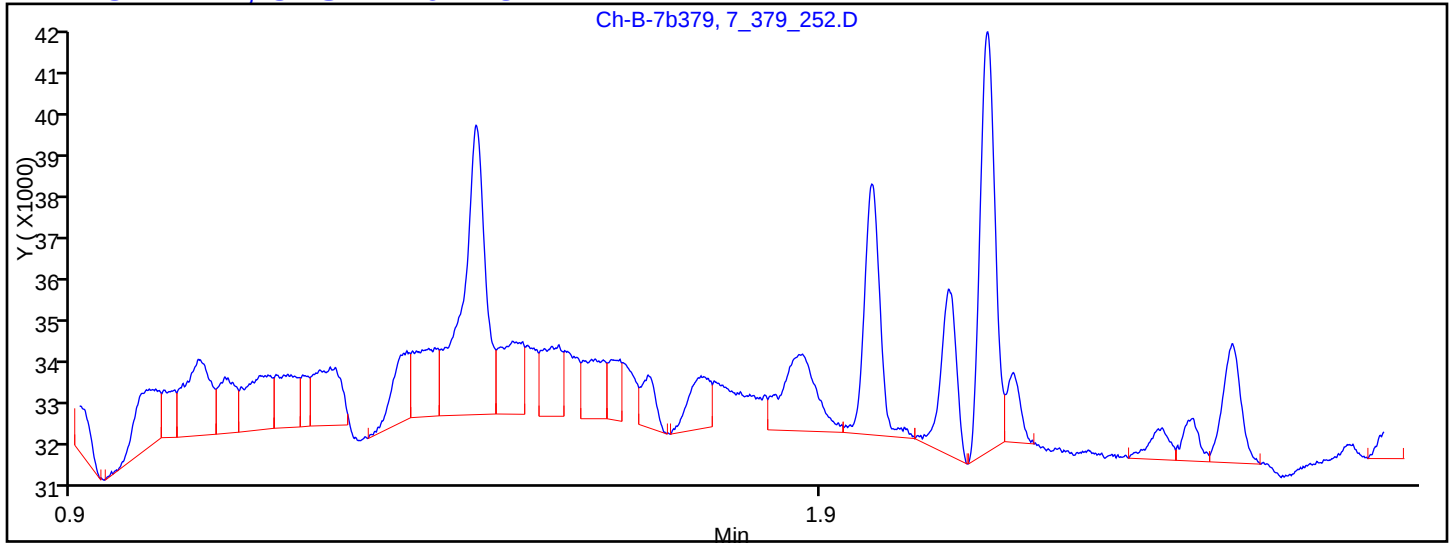
Dil. Factor: 1.0000

Method: HP7-PCBS

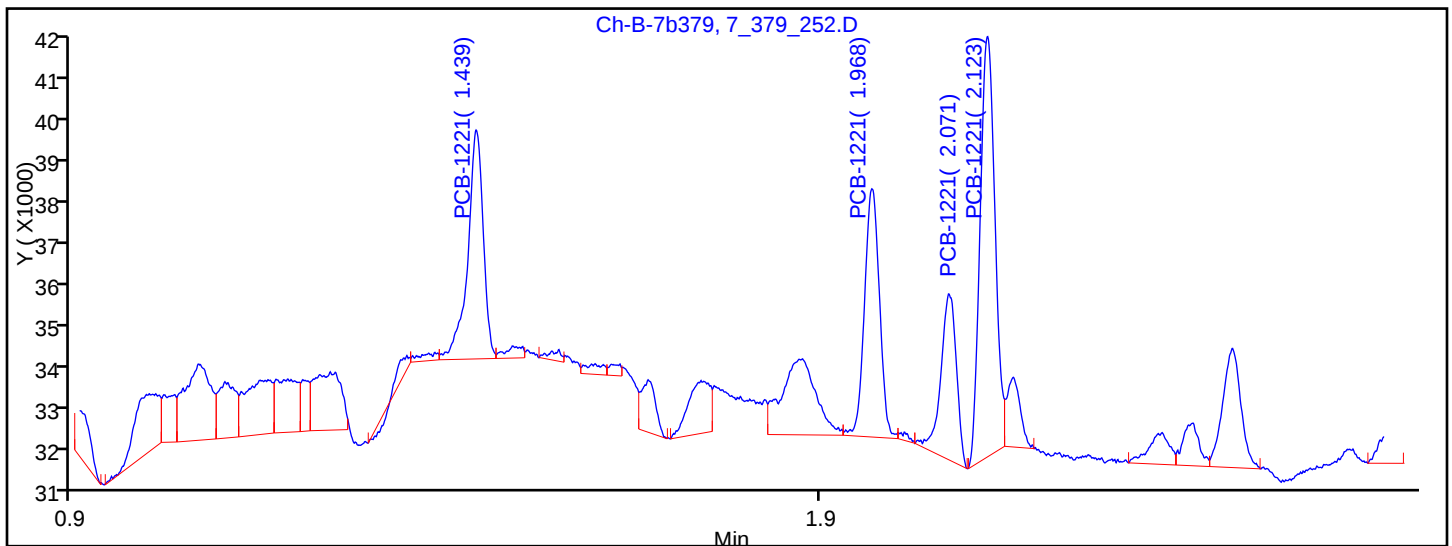
Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

2 PCB-1221, CAS: 11104-28-2

Processing Integration Results



Manual Integration Results

RT = 1.439	Response = 7437	M
RT = 1.968	Response = 7771	M
RT = 2.071	Response = 5417	M
RT = 2.123	Response = 13042	M

Reviewer: larsonj, 07-Aug-2015 11:48:23

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_252.D

Injection Date: 06-Aug-2015 23:40:12

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

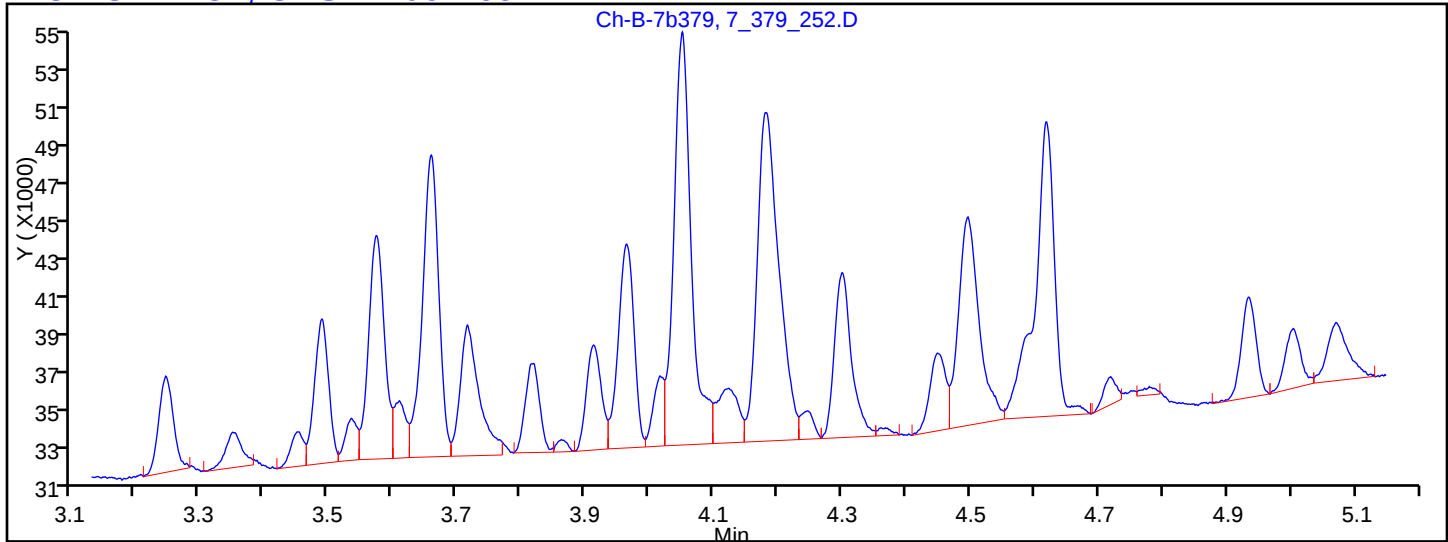
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

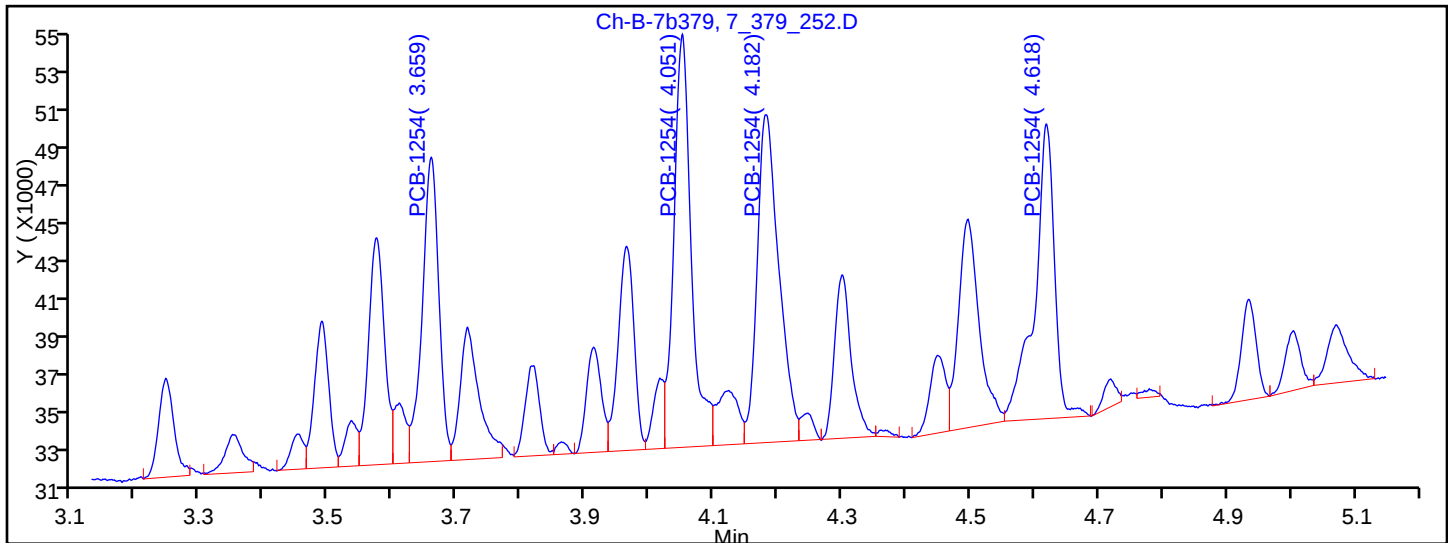
Detector Ch-B-7b136

8 PCB-1254, CAS: 11097-69-1



Processing Integration Results

RT = 3.349	Response = 3298	M
RT = 3.659	Response = 27392	M
RT = 3.716	Response = 13665	M
RT = 3.863	Response = 721	M



Manual Integration Results

RT = 3.659	Response = 27895	M
RT = 4.051	Response = 39421	M
RT = 4.182	Response = 39297	M
RT = 4.618	Response = 32469	M

Reviewer: larsonj, 07-Aug-2015 11:48:23

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason:

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 00:11 Calibration End Date: 08/07/2015 00:43 Calibration ID: 24469

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/16	7_379_256.D
Level 2	STD2 480-257541/15	7_379_255.D
Level 3	STD3 480-257541/14	7_379_254.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1232 Peak 1	+++++	2.370	+++++								2.340 - 2.400	2.370
PCB-1232 Peak 2	+++++	2.850	+++++								2.819 - 2.879	2.850
PCB-1232 Peak 3	+++++	3.055	+++++								3.023 - 3.083	3.055
PCB-1232 Peak 4	+++++	3.141	+++++								3.112 - 3.172	3.141
PCB-1262 Peak 1	+++++	4.700	+++++								4.670 - 4.730	4.700
PCB-1262 Peak 2	+++++	5.059	+++++								5.031 - 5.091	5.059
PCB-1262 Peak 3	+++++	5.455	+++++								5.425 - 5.485	5.455
PCB-1262 Peak 4	+++++	5.832	+++++								5.802 - 5.862	5.832

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 00:11 Calibration End Date: 08/07/2015 00:43 Calibration ID: 24469

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/16	7_379_256.D
Level 2	STD2 480-257541/15	7_379_255.D
Level 3	STD3 480-257541/14	7_379_254.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1232 Peak 1	+++++	704586	+++++		Ave		704586.000						20.0			
PCB-1232 Peak 2	+++++	369808	+++++		Ave		369808.000						20.0			
PCB-1232 Peak 3	+++++	1205116	+++++		Ave		1205116.00						20.0			
PCB-1232 Peak 4	+++++	460584	+++++		Ave		460584.000						20.0			
PCB-1262 Peak 1	+++++	1255478	+++++		Ave		1255478.00						20.0			
PCB-1262 Peak 2	+++++	1733716	+++++		Ave		1733716.00						20.0			
PCB-1262 Peak 3	+++++	3081308	+++++		Ave		3081308.00						20.0			
PCB-1262 Peak 4	+++++	1222898	+++++		Ave		1222898.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 00:11 Calibration End Date: 08/07/2015 00:43 Calibration ID: 24469

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/16	7_379_256.D
Level 2	STD2 480-257541/15	7_379_255.D
Level 3	STD3 480-257541/14	7_379_254.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	Ave	+++++	352293	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	Ave	+++++	184904	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	Ave	+++++	602558	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	Ave	+++++	230292	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	Ave	+++++	627739	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	Ave	+++++	866858	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	Ave	+++++	1540654	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	Ave	+++++	611449	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_254.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-Aug-2015 00:11:50 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:35 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:12:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

1	2.370	2.370	0.000	1262368	2.00	1.79	a
1	2.849	2.849	0.000	669688	2.00	1.81	a
1	3.055	3.053	0.002	2309801	2.00	1.92	a
1	3.139	3.142	-0.003	870632	2.00	1.89	a

Average of Peak Amounts = 1.85

2	2.123	2.123	0.000	1026429	2.00	2.05	a
2	2.444	2.444	0.000	1044561	2.00	1.82	a
2	2.757	2.757	0.000	1995984	2.00	1.95	a
2	2.873	2.873	-0.001	735808	2.00	1.87	a

Average of Peak Amounts = 1.92

RPD = 3.67

10 PCB-1262

1	4.700	4.700	0.000	2455354	2.00	1.96	a
1	5.059	5.061	-0.002	3376557	2.00	1.95	a
1	5.455	5.455	0.000	6045213	2.00	1.96	a
1	5.830	5.832	-0.002	2421014	2.00	1.98	a

Average of Peak Amounts = 1.96

2	4.668	4.667	0.001	2863153	2.00	2.03	a
2	4.931	4.931	0.000	2606463	2.00	2.05	a
2	5.068	5.068	0.000	5947291	2.00	2.10	a
2	5.403	5.405	-0.002	3576349	2.00	2.09	a

Average of Peak Amounts = 2.07

RPD = 5.21

Reagents:

1232-1262 2.0_00006

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_254.D

Injection Date: 07-Aug-2015 00:11:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 14

Client ID:

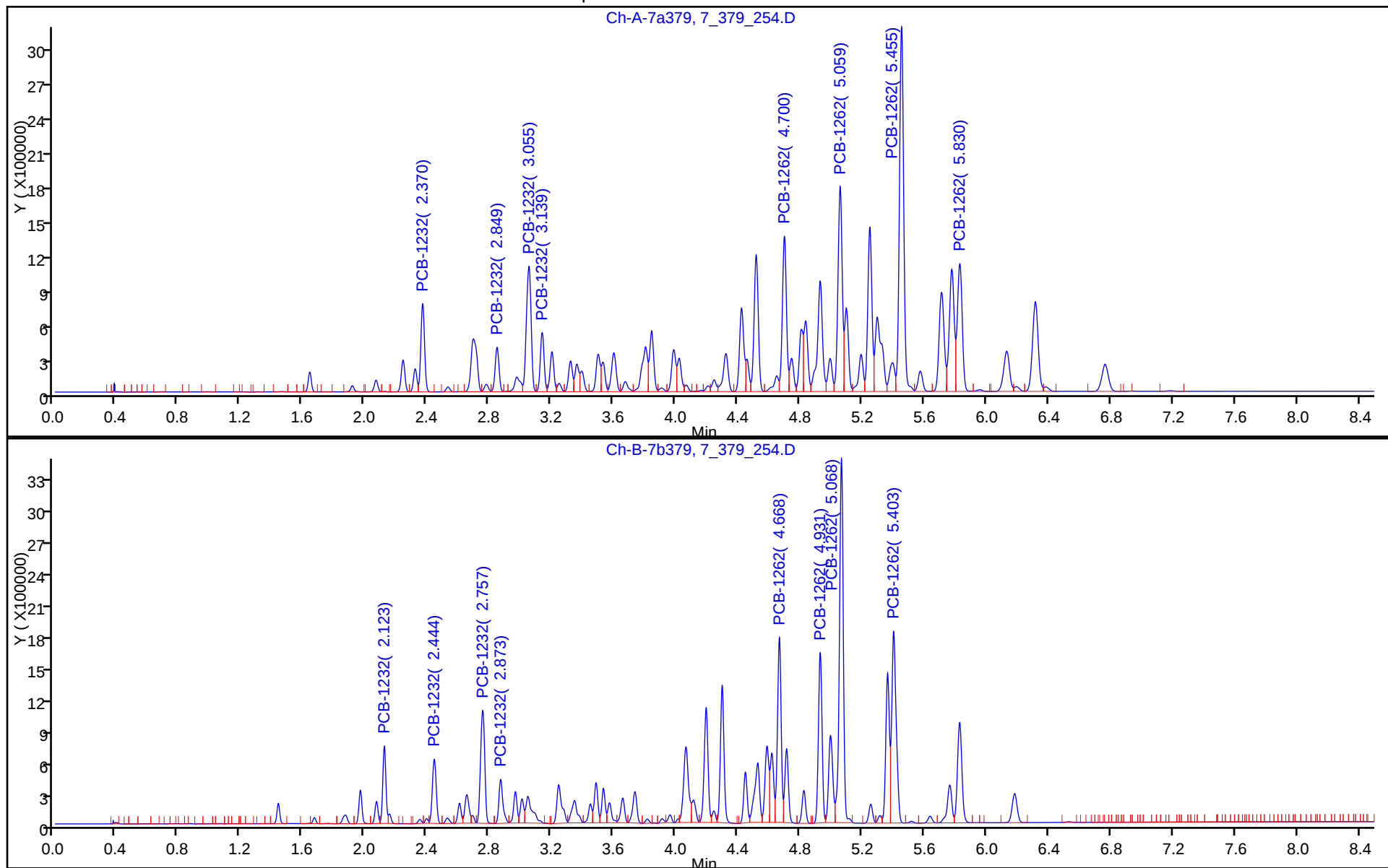
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_255.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-Aug-2015 00:27:50 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:38 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:12:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

M

1	2.370	2.370	0.000	352293	0.5000	0.5000	
1	2.850	2.849	0.001	184904	0.5000	0.5000	
1	3.055	3.053	0.002	602558	0.5000	0.5000	
1	3.141	3.142	-0.001	230292	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.123	2.123	-0.001	250252	0.5000	0.5000	M
2	2.444	2.444	0.000	286683	0.5000	0.5000	
2	2.756	2.757	-0.001	512836	0.5000	0.5000	
2	2.872	2.873	-0.001	196953	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.700	4.700	0.000	627739	0.5000	0.5000	
1	5.059	5.061	-0.002	866858	0.5000	0.5000	
1	5.455	5.455	0.000	1540654	0.5000	0.5000	
1	5.832	5.832	0.000	611449	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	4.668	4.667	0.001	704653	0.5000	0.5000	
2	4.931	4.931	0.000	637154	0.5000	0.5000	
2	5.067	5.068	-0.001	1418607	0.5000	0.5000	
2	5.403	5.405	-0.003	854866	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00006

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_255.D

Injection Date: 07-Aug-2015 00:27:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 15

Client ID:

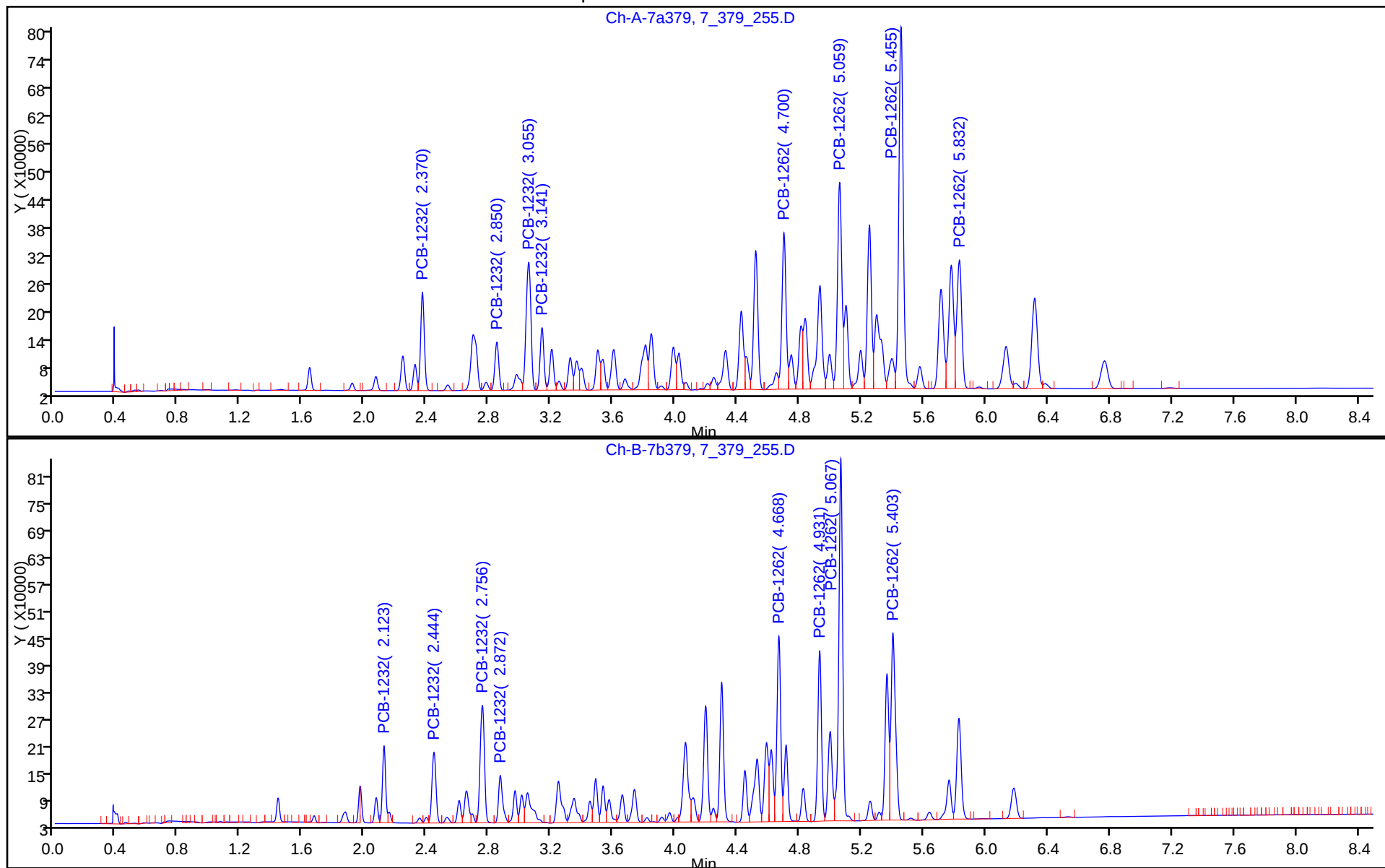
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-Aug-2015 00:43:43 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:41 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 12:12:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232 M

1	2.370	2.370	0.000	19414	0.0200	0.0276	
1	2.849	2.849	0.000	10040	0.0200	0.0271	
1	3.053	3.053	0.000	29780	0.0200	0.0247	M
1	3.142	3.142	0.000	13556	0.0200	0.0294	M

Average of Peak Amounts = 0.0272

2	2.123	2.123	0.000	11628	0.0200	0.0232	
2	2.444	2.444	0.000	13959	0.0200	0.0243	
2	2.757	2.757	0.000	24820	0.0200	0.0242	
2	2.873	2.873	0.000	9508	0.0200	0.0241	

Average of Peak Amounts = 0.0240

RPD = 12.63

10 PCB-1262 M

1	4.700	4.700	0.000	29894	0.0200	0.0238	M
1	5.061	5.061	0.000	40896	0.0200	0.0236	M
1	5.455	5.455	0.000	70235	0.0200	0.0228	M
1	5.832	5.832	0.000	30370	0.0200	0.0248	M

Average of Peak Amounts = 0.0238

2	4.667	4.667	0.000	31198	0.0200	0.0221	M
2	4.931	4.931	0.000	27157	0.0200	0.0213	
2	5.068	5.068	0.000	59064	0.0200	0.0208	
2	5.405	5.405	0.000	36177	0.0200	0.0212	

Average of Peak Amounts = 0.0214

RPD = 10.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00006

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D

Injection Date: 07-Aug-2015 00:43:43

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 16

Client ID:

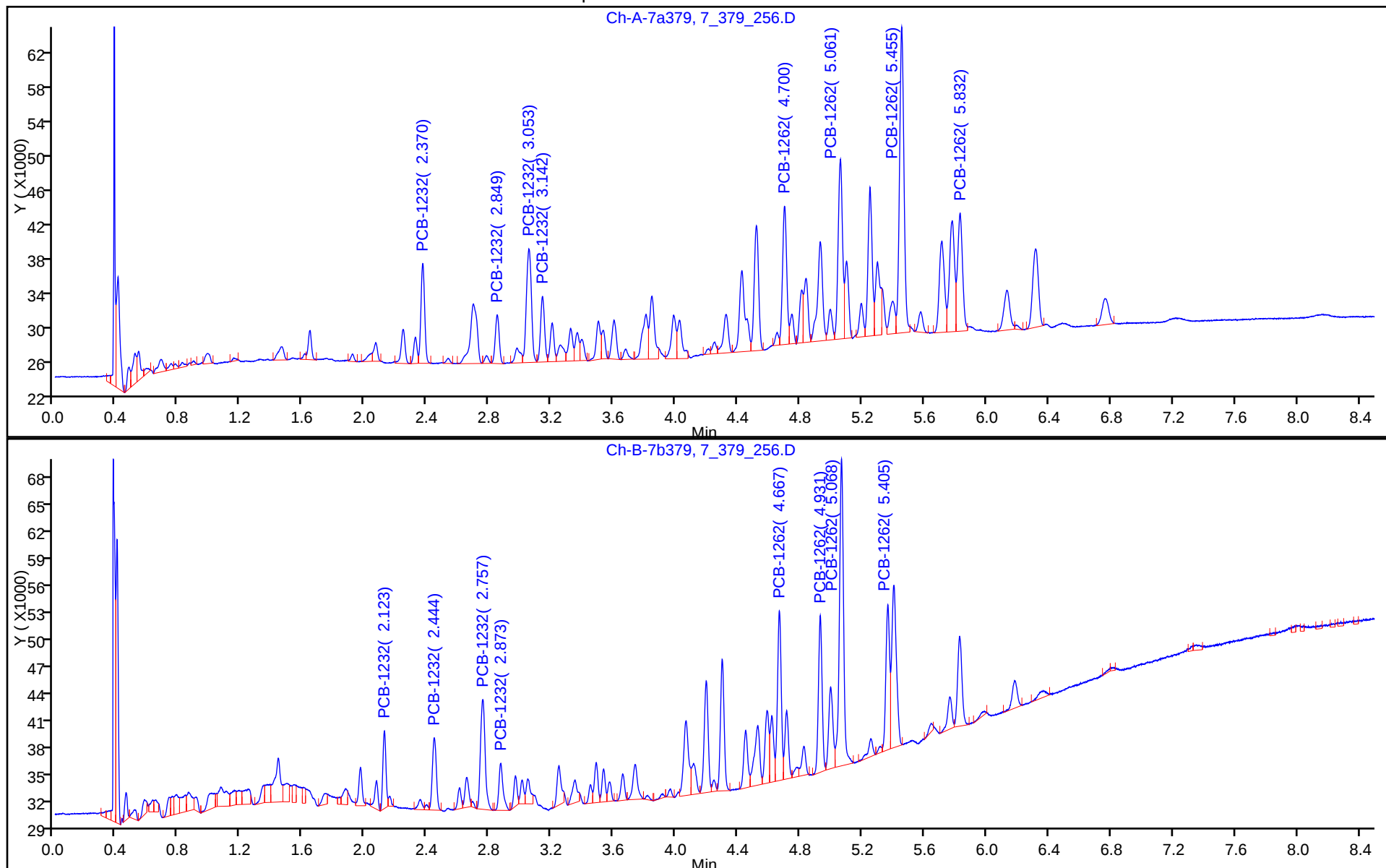
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D

Injection Date: 07-Aug-2015 00:43:43

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 16

Injection Vol: 1.0 ul

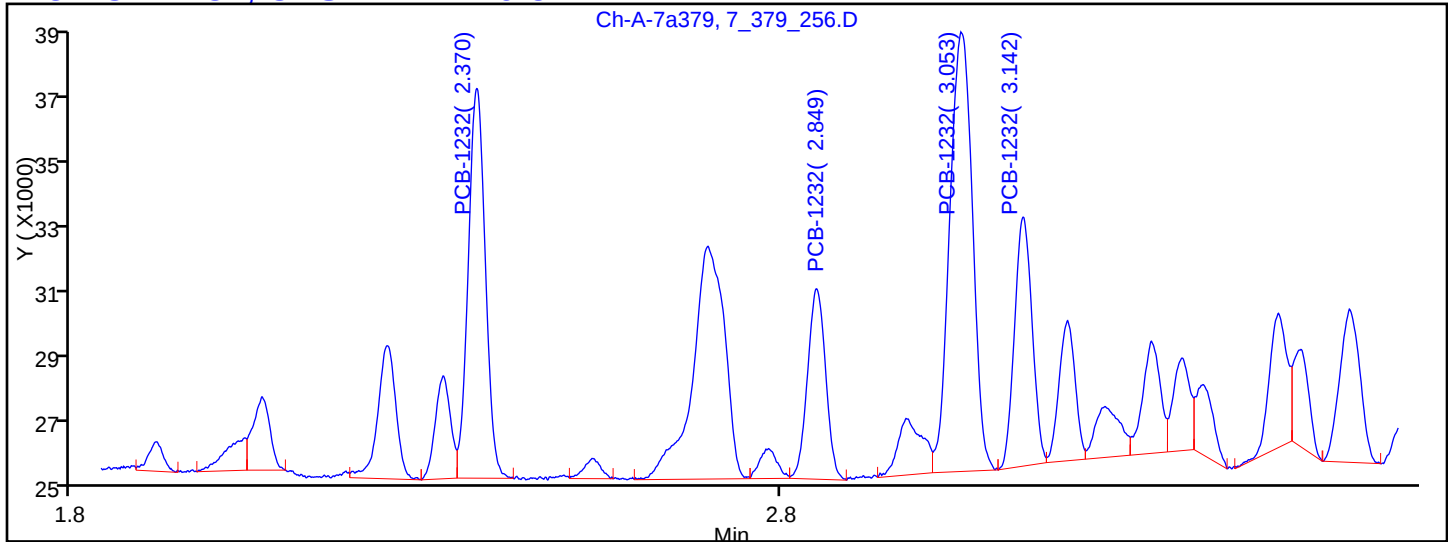
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5

Processing Integration Results

RT = 2.370 Response = 19414

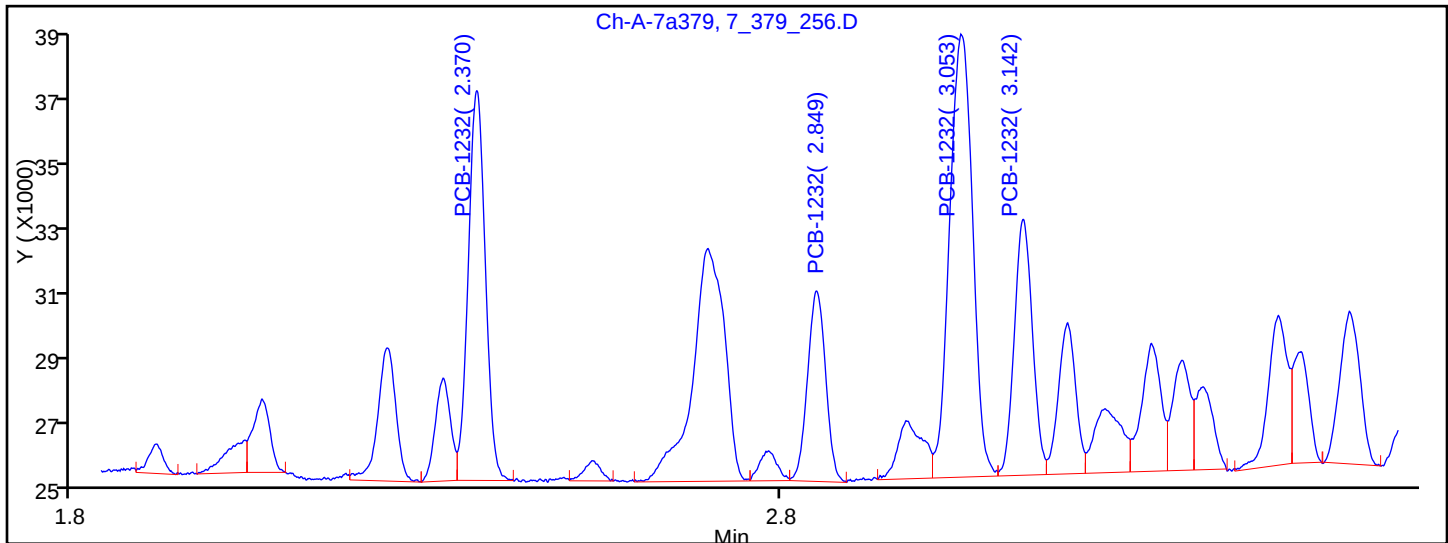
RT = 2.849 Response = 10040

RT = 3.053 Response = 29209

RT = 3.142 Response = 12734

M

M



Manual Integration Results

RT = 2.370 Response = 19414

RT = 2.849 Response = 10040

RT = 3.053 Response = 29780

RT = 3.142 Response = 13556

M

M

Reviewer: larsonj, 07-Aug-2015 12:18:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D

Injection Date: 07-Aug-2015 00:43:43

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 16

Injection Vol: 1.0 ul

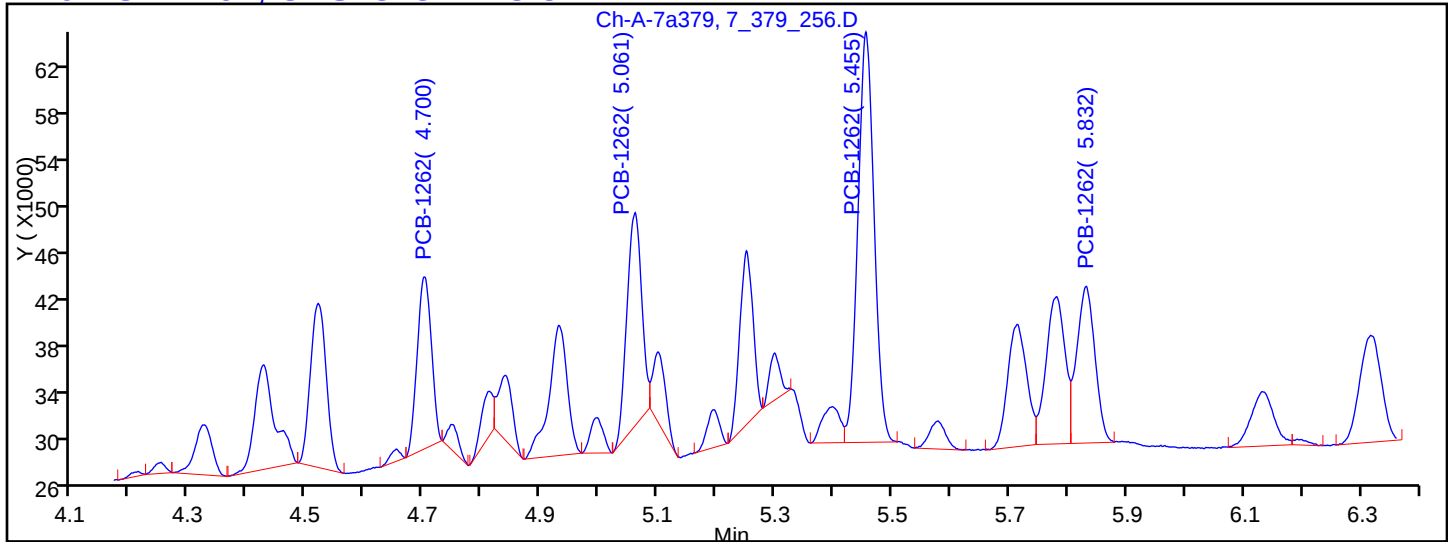
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

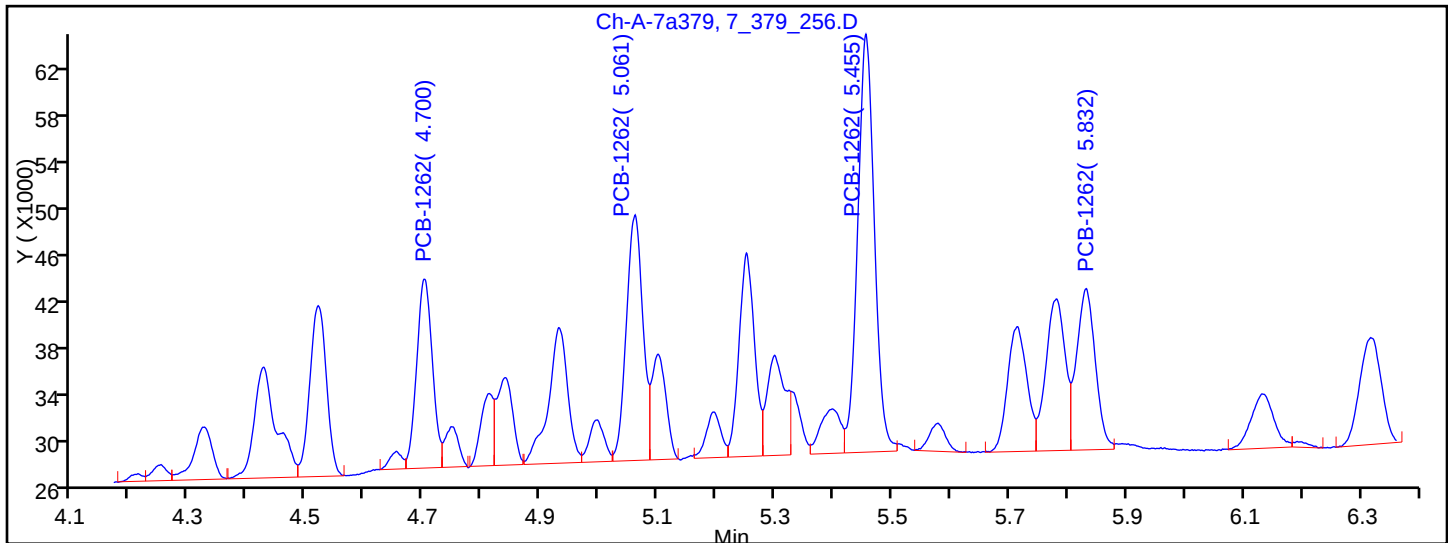
Column:

Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

RT = 4.700	Response = 24651	M
RT = 5.061	Response = 31896	M
RT = 5.455	Response = 66822	M
RT = 5.832	Response = 28624	M



Manual Integration Results

RT = 4.700	Response = 29894	M
RT = 5.061	Response = 40896	M
RT = 5.455	Response = 70235	M
RT = 5.832	Response = 30370	M

Reviewer: larsonj, 07-Aug-2015 12:18:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 00:11 Calibration End Date: 08/07/2015 00:43 Calibration ID: 24470

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/16	7_379_256.D
Level 2	STD2 480-257541/15	7_379_255.D
Level 3	STD3 480-257541/14	7_379_254.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1232 Peak 1	+++++	2.123	+++++								2.093 - 2.153	2.123
PCB-1232 Peak 2	+++++	2.444	+++++								2.414 - 2.474	2.444
PCB-1232 Peak 3	+++++	2.756	+++++								2.727 - 2.787	2.756
PCB-1232 Peak 4	+++++	2.872	+++++								2.843 - 2.903	2.872
PCB-1262 Peak 1	+++++	4.668	+++++								4.637 - 4.697	4.668
PCB-1262 Peak 2	+++++	4.931	+++++								4.901 - 4.961	4.931
PCB-1262 Peak 3	+++++	5.067	+++++								5.038 - 5.098	5.067
PCB-1262 Peak 4	+++++	5.403	+++++								5.375 - 5.435	5.403

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 00:11 Calibration End Date: 08/07/2015 00:43 Calibration ID: 24470

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/16	7_379_256.D
Level 2	STD2 480-257541/15	7_379_255.D
Level 3	STD3 480-257541/14	7_379_254.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1232 Peak 1	+++++	500504	+++++		Ave		500504.000						20.0			
PCB-1232 Peak 2	+++++	573366	+++++		Ave		573366.000						20.0			
PCB-1232 Peak 3	+++++	1025672	+++++		Ave		1025672.00						20.0			
PCB-1232 Peak 4	+++++	393906	+++++		Ave		393906.000						20.0			
PCB-1262 Peak 1	+++++	1409306	+++++		Ave		1409306.00						20.0			
PCB-1262 Peak 2	+++++	1274308	+++++		Ave		1274308.00						20.0			
PCB-1262 Peak 3	+++++	2837214	+++++		Ave		2837214.00						20.0			
PCB-1262 Peak 4	+++++	1709732	+++++		Ave		1709732.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 00:11 Calibration End Date: 08/07/2015 00:43 Calibration ID: 24470

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/16	7_379_256.D
Level 2	STD2 480-257541/15	7_379_255.D
Level 3	STD3 480-257541/14	7_379_254.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	Ave	+++++	250252	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	Ave	+++++	286683	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	Ave	+++++	512836	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	Ave	+++++	196953	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	Ave	+++++	704653	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	Ave	+++++	637154	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	Ave	+++++	1418607	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	Ave	+++++	854866	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_254.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-Aug-2015 00:11:50 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:35 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:12:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

1	2.370	2.370	0.000	1262368	2.00	1.79	a
1	2.849	2.849	0.000	669688	2.00	1.81	a
1	3.055	3.053	0.002	2309801	2.00	1.92	a
1	3.139	3.142	-0.003	870632	2.00	1.89	a

Average of Peak Amounts = 1.85

2	2.123	2.123	0.000	1026429	2.00	2.05	a
2	2.444	2.444	0.000	1044561	2.00	1.82	a
2	2.757	2.757	0.000	1995984	2.00	1.95	a
2	2.873	2.873	-0.001	735808	2.00	1.87	a

Average of Peak Amounts = 1.92

RPD = 3.67

10 PCB-1262

1	4.700	4.700	0.000	2455354	2.00	1.96	a
1	5.059	5.061	-0.002	3376557	2.00	1.95	a
1	5.455	5.455	0.000	6045213	2.00	1.96	a
1	5.830	5.832	-0.002	2421014	2.00	1.98	a

Average of Peak Amounts = 1.96

2	4.668	4.667	0.001	2863153	2.00	2.03	a
2	4.931	4.931	0.000	2606463	2.00	2.05	a
2	5.068	5.068	0.000	5947291	2.00	2.10	a
2	5.403	5.405	-0.002	3576349	2.00	2.09	a

Average of Peak Amounts = 2.07

RPD = 5.21

Reagents:

1232-1262 2.0_00006

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_254.D

Injection Date: 07-Aug-2015 00:11:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 14

Client ID:

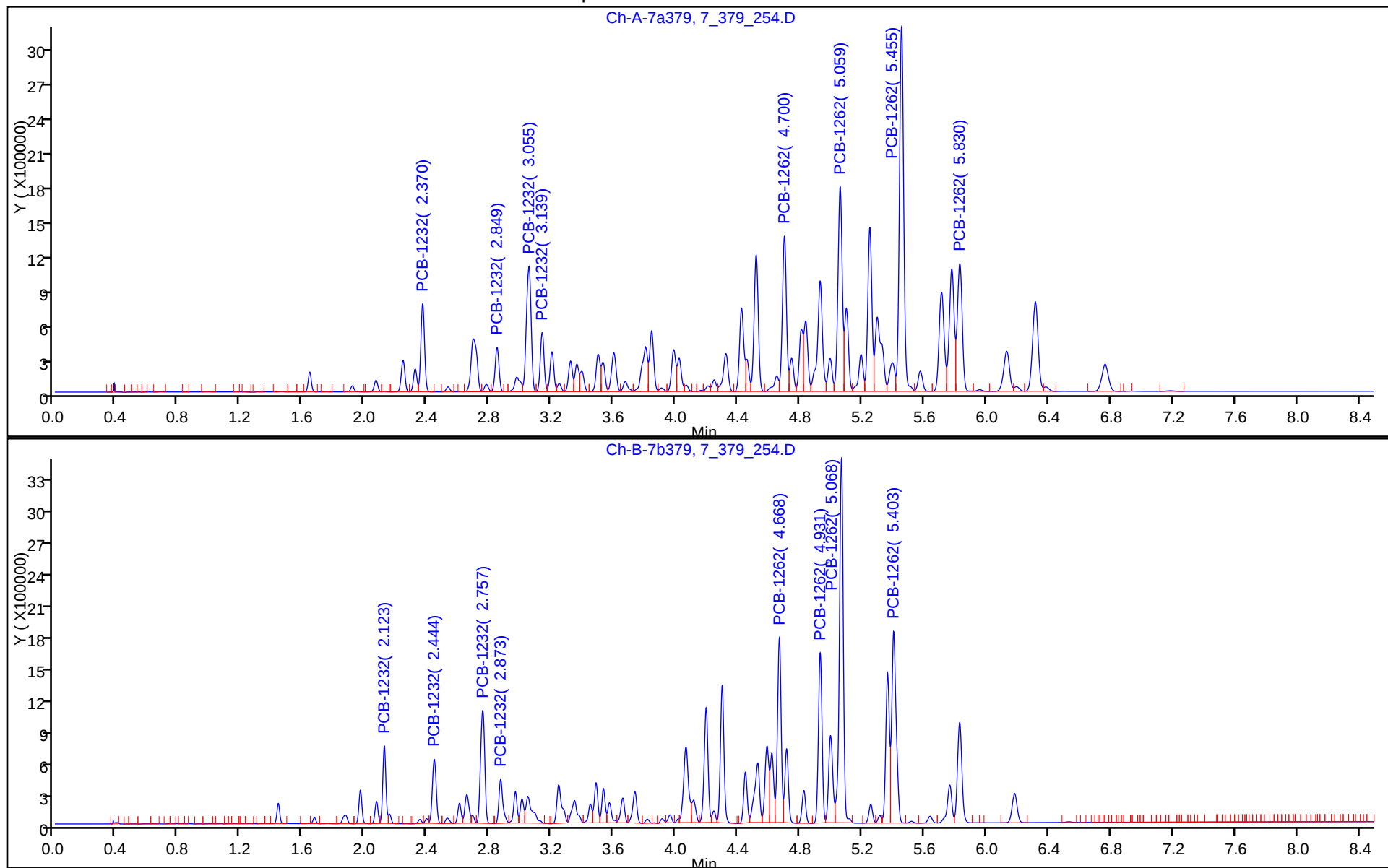
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_255.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-Aug-2015 00:27:50 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:38 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:12:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

M

1	2.370	2.370	0.000	352293	0.5000	0.5000	
1	2.850	2.849	0.001	184904	0.5000	0.5000	
1	3.055	3.053	0.002	602558	0.5000	0.5000	
1	3.141	3.142	-0.001	230292	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.123	2.123	-0.001	250252	0.5000	0.5000	M
2	2.444	2.444	0.000	286683	0.5000	0.5000	
2	2.756	2.757	-0.001	512836	0.5000	0.5000	
2	2.872	2.873	-0.001	196953	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.700	4.700	0.000	627739	0.5000	0.5000	
1	5.059	5.061	-0.002	866858	0.5000	0.5000	
1	5.455	5.455	0.000	1540654	0.5000	0.5000	
1	5.832	5.832	0.000	611449	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	4.668	4.667	0.001	704653	0.5000	0.5000	
2	4.931	4.931	0.000	637154	0.5000	0.5000	
2	5.067	5.068	-0.001	1418607	0.5000	0.5000	
2	5.403	5.405	-0.003	854866	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00006

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_255.D

Injection Date: 07-Aug-2015 00:27:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 15

Client ID:

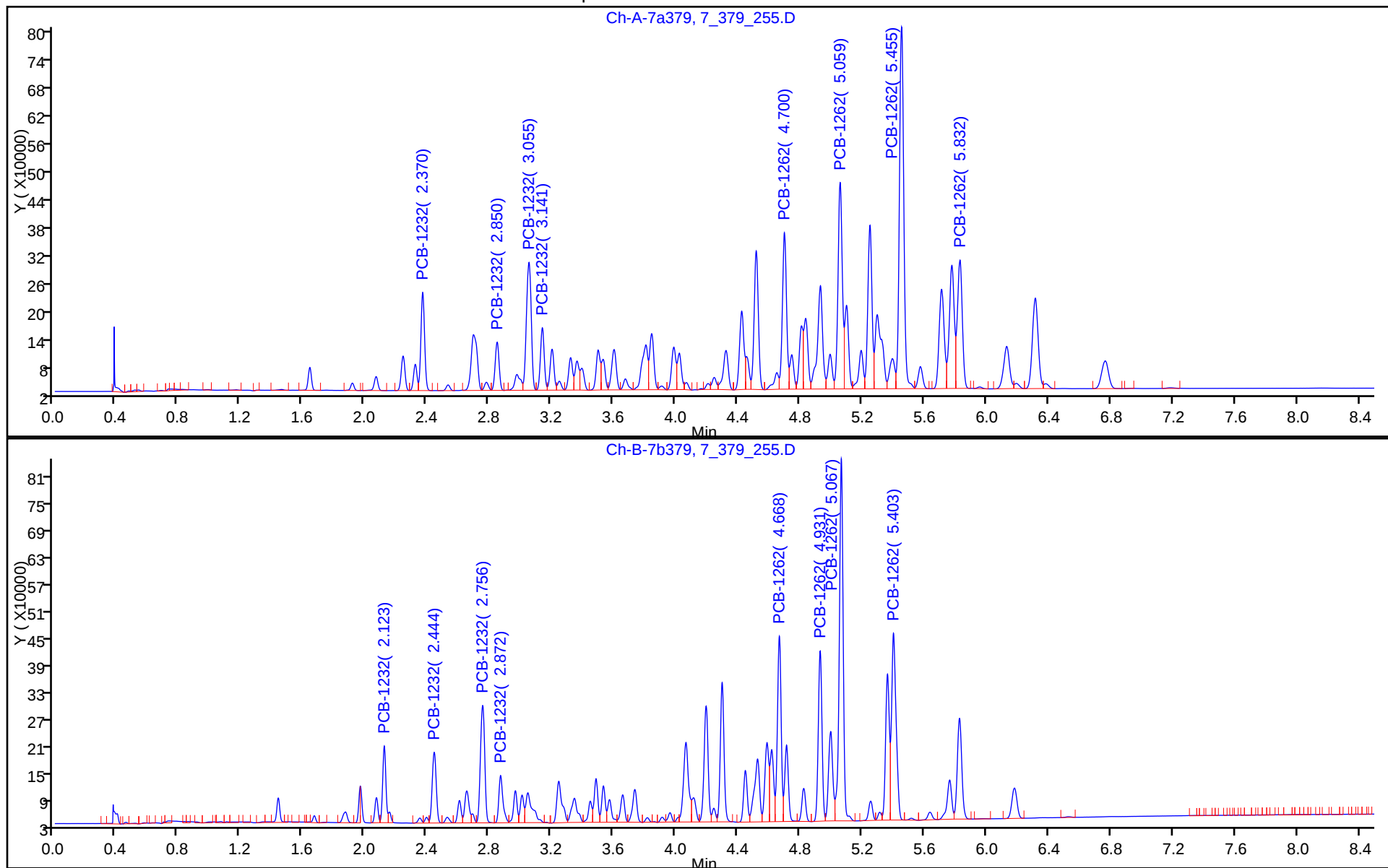
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_255.D

Injection Date: 07-Aug-2015 00:27:50

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

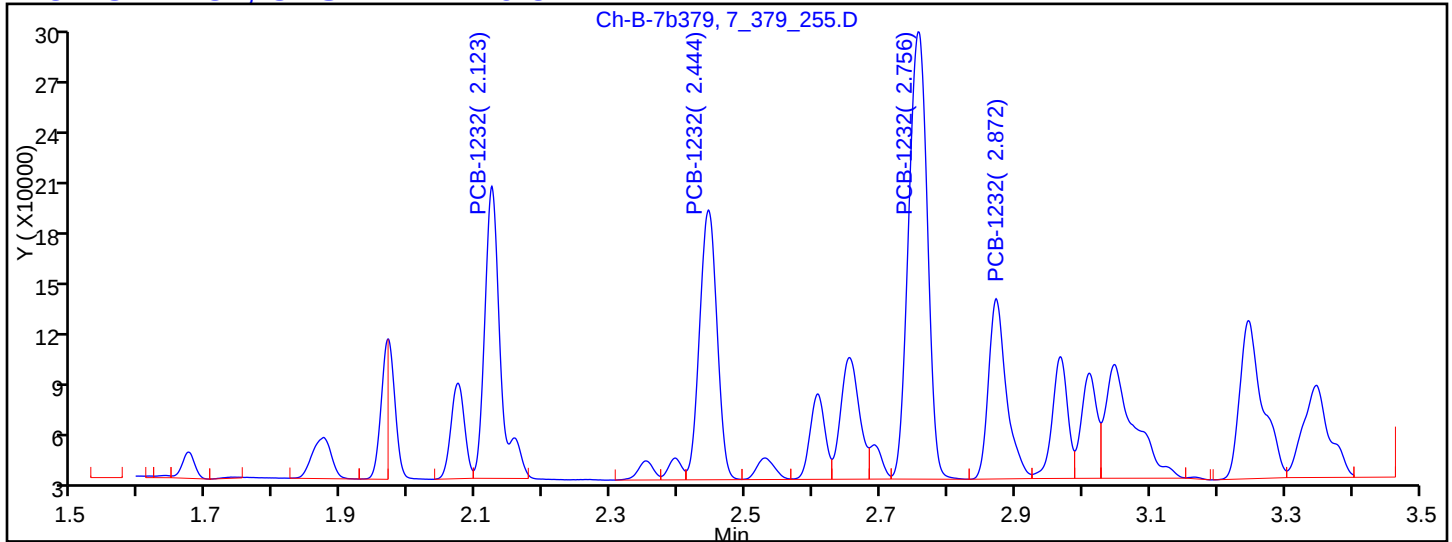
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

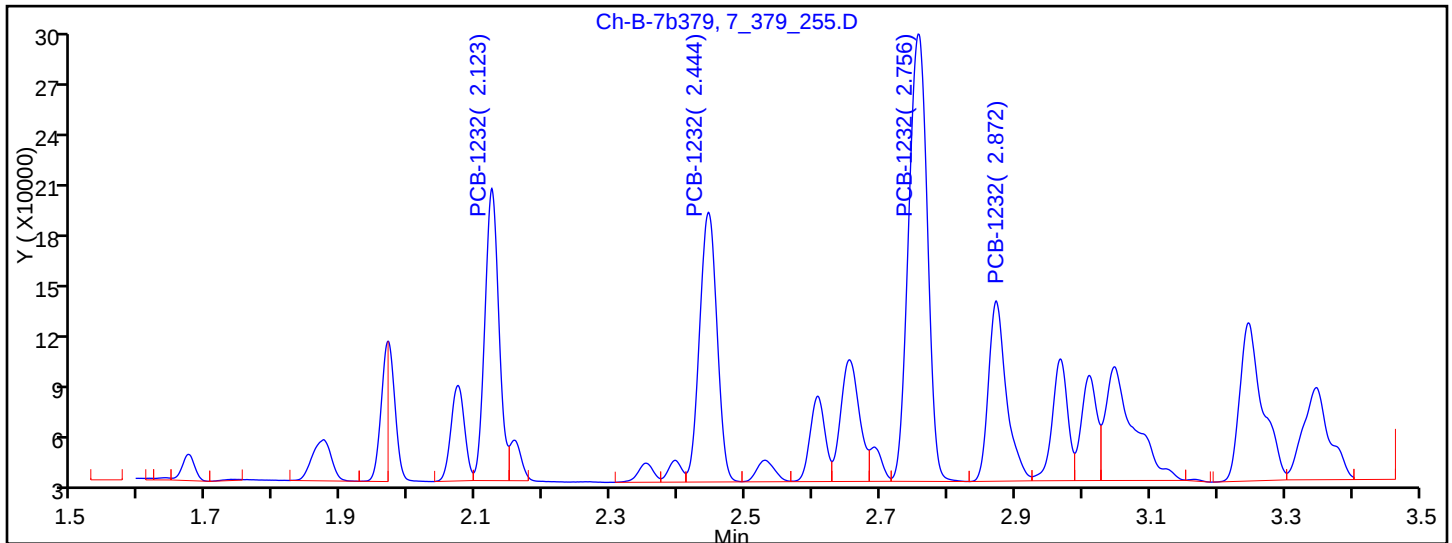
RT = 2.123 Response = 277092

M

RT = 2.444 Response = 286683

RT = 2.756 Response = 512836

RT = 2.872 Response = 196953



Manual Integration Results

RT = 2.123 Response = 250252

M

RT = 2.444 Response = 286683

RT = 2.756 Response = 512836

RT = 2.872 Response = 196953

Reviewer: larsonj, 07-Aug-2015 12:15:10

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-Aug-2015 00:43:43 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:41 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 12:12:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232 M

1	2.370	2.370	0.000	19414	0.0200	0.0276	
1	2.849	2.849	0.000	10040	0.0200	0.0271	
1	3.053	3.053	0.000	29780	0.0200	0.0247	M
1	3.142	3.142	0.000	13556	0.0200	0.0294	M

Average of Peak Amounts = 0.0272

2	2.123	2.123	0.000	11628	0.0200	0.0232	
2	2.444	2.444	0.000	13959	0.0200	0.0243	
2	2.757	2.757	0.000	24820	0.0200	0.0242	
2	2.873	2.873	0.000	9508	0.0200	0.0241	

Average of Peak Amounts = 0.0240

RPD = 12.63

10 PCB-1262 M

1	4.700	4.700	0.000	29894	0.0200	0.0238	M
1	5.061	5.061	0.000	40896	0.0200	0.0236	M
1	5.455	5.455	0.000	70235	0.0200	0.0228	M
1	5.832	5.832	0.000	30370	0.0200	0.0248	M

Average of Peak Amounts = 0.0238

2	4.667	4.667	0.000	31198	0.0200	0.0221	M
2	4.931	4.931	0.000	27157	0.0200	0.0213	
2	5.068	5.068	0.000	59064	0.0200	0.0208	
2	5.405	5.405	0.000	36177	0.0200	0.0212	

Average of Peak Amounts = 0.0214

RPD = 10.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00006

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D

Injection Date: 07-Aug-2015 00:43:43

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 16

Client ID:

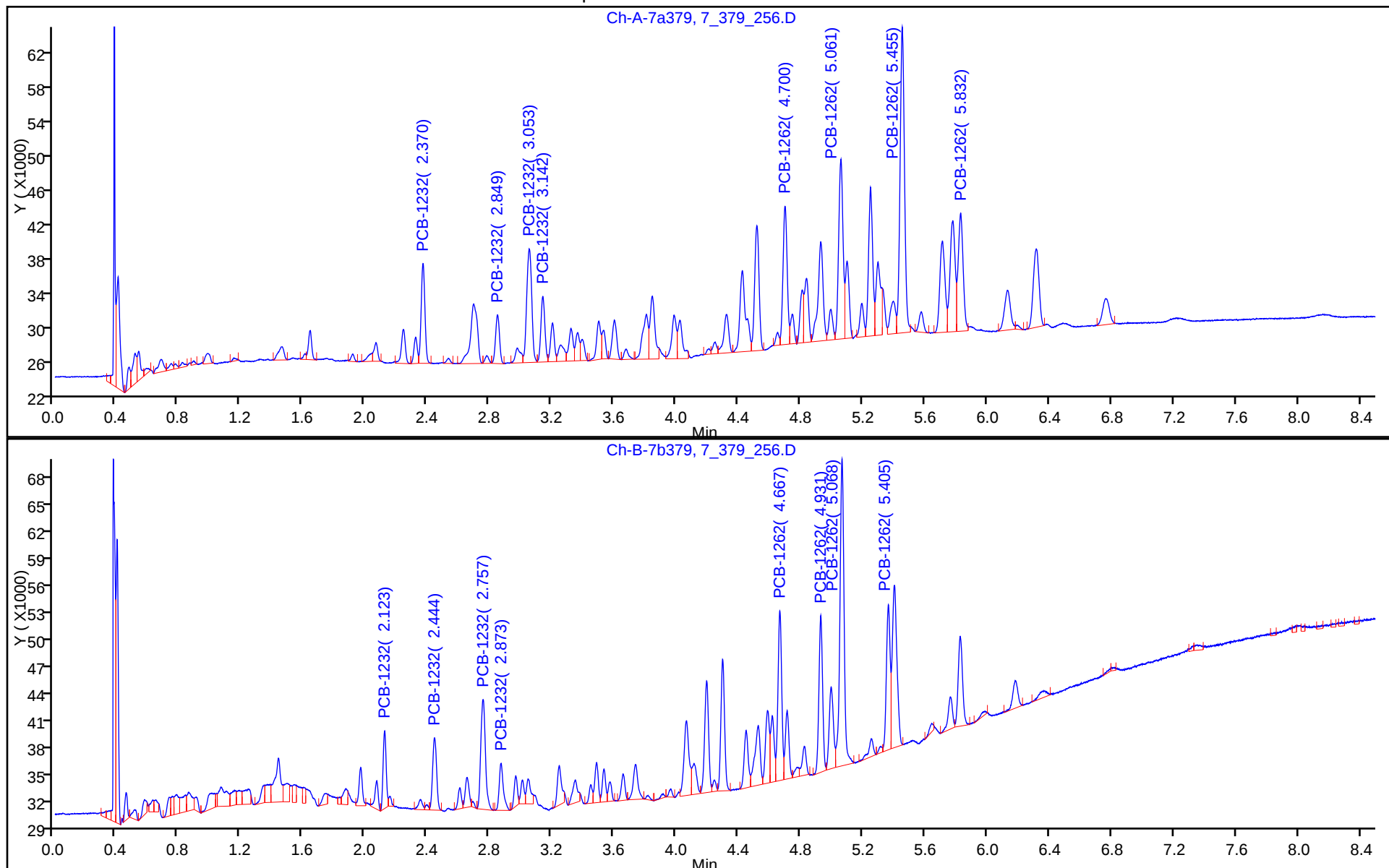
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_256.D

Injection Date: 07-Aug-2015 00:43:43

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 16

Injection Vol: 1.0 ul

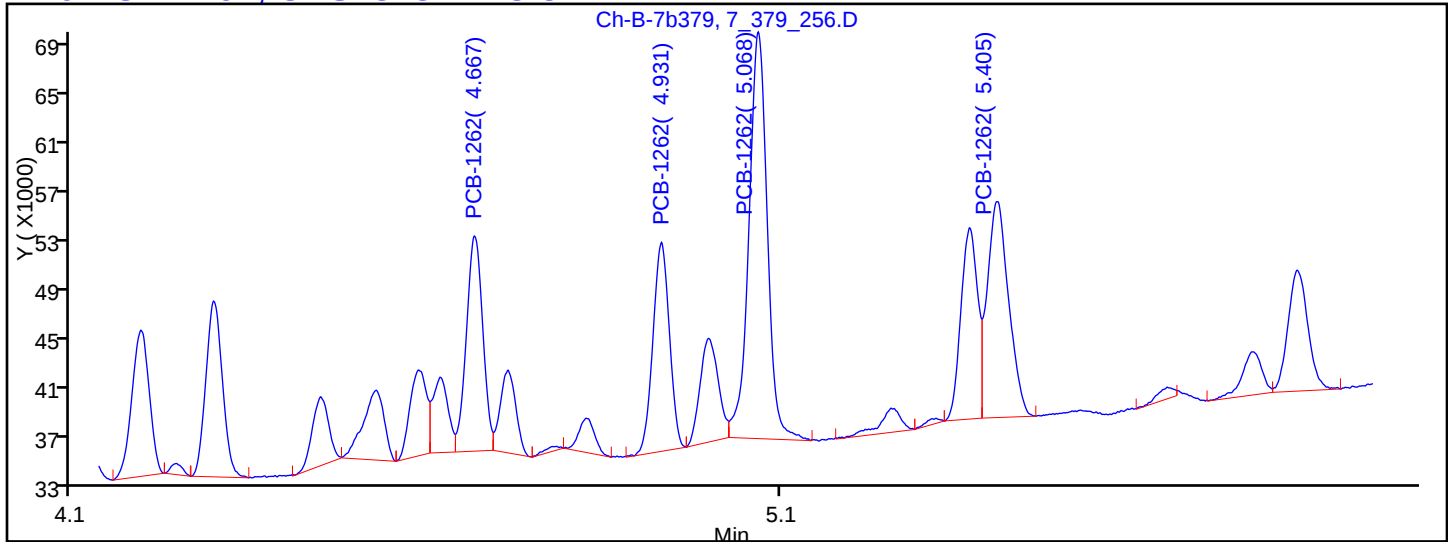
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

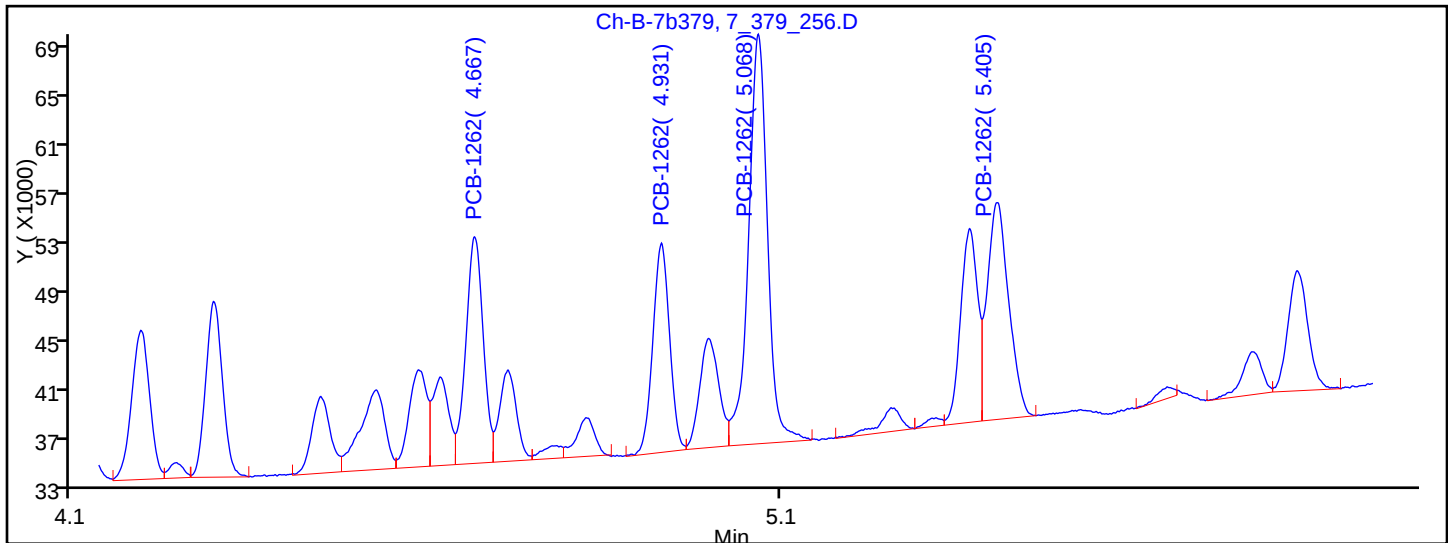
RT = 4.667 Response = 27845

M

RT = 4.931 Response = 27157

RT = 5.068 Response = 59064

RT = 5.405 Response = 36177



Manual Integration Results

RT = 4.667 Response = 31198

M

RT = 4.931 Response = 27157

RT = 5.068 Response = 59064

RT = 5.405 Response = 36177

Reviewer: larsonj, 07-Aug-2015 12:18:15

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 01:15 Calibration End Date: 08/07/2015 01:47 Calibration ID: 24451

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/20	7_379_260.D
Level 2	STD2 480-257541/19	7_379_259.D
Level 3	STD3 480-257541/18	7_379_258.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1242 Peak 1	+++++	3.055	+++++								3.023 - 3.083	3.055
PCB-1242 Peak 2	+++++	3.142	+++++								3.111 - 3.171	3.142
PCB-1242 Peak 3	+++++	3.603	+++++								3.573 - 3.633	3.603
PCB-1242 Peak 4	+++++	3.843	+++++								3.813 - 3.873	3.843
PCB-1268 Peak 1	+++++	5.781	+++++								5.749 - 5.809	5.781
PCB-1268 Peak 2	+++++	5.831	+++++								5.799 - 5.859	5.831
PCB-1268 Peak 3	+++++	6.116	+++++								6.083 - 6.143	6.116
PCB-1268 Peak 4	+++++	6.771	+++++								6.736 - 6.796	6.771

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 01:15 Calibration End Date: 08/07/2015 01:47 Calibration ID: 24451

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/20	7_379_260.D
Level 2	STD2 480-257541/19	7_379_259.D
Level 3	STD3 480-257541/18	7_379_258.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1242 Peak 1	+++++	2171956	+++++		Ave		2171956.00						20.0			
PCB-1242 Peak 2	+++++	810930	+++++		Ave		810930.000						20.0			
PCB-1242 Peak 3	+++++	740890	+++++		Ave		740890.000						20.0			
PCB-1242 Peak 4	+++++	675882	+++++		Ave		675882.000						20.0			
PCB-1268 Peak 1	+++++	3471772	+++++		Ave		3471772.00						20.0			
PCB-1268 Peak 2	+++++	3073756	+++++		Ave		3073756.00						20.0			
PCB-1268 Peak 3	+++++	2688604	+++++		Ave		2688604.00						20.0			
PCB-1268 Peak 4	+++++	8551686	+++++		Ave		8551686.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 01:15 Calibration End Date: 08/07/2015 01:47 Calibration ID: 24451

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/20	7_379_260.D
Level 2	STD2 480-257541/19	7_379_259.D
Level 3	STD3 480-257541/18	7_379_258.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	Ave	+++++	1085978	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	Ave	+++++	405465	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	Ave	+++++	370445	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	Ave	+++++	337941	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	Ave	+++++	1735886	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	Ave	+++++	1536878	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	Ave	+++++	1344302	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	Ave	+++++	4275843	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_258.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-Aug-2015 01:15:22 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:48 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 12:24:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	3.055	3.053	0.002	4135148	2.00	1.90	
1	3.141	3.141	0.000	1547773	2.00	1.91	
1	3.603	3.603	0.001	1434398	2.00	1.94	
1	3.844	3.843	0.002	1474546	2.00	2.18	

Average of Peak Amounts = 1.98

2	2.758	2.756	0.002	3698234	2.00	2.03	
2	2.873	2.872	0.000	1366843	2.00	1.98	
2	3.488	3.487	0.001	1299056	2.00	2.04	
2	3.535	3.533	0.002	1075274	2.00	2.04	

Average of Peak Amounts = 2.02

RPD = 2.04

11 PCB-1268

1	5.779	5.779	0.000	6919824	2.00	1.99	
1	5.831	5.829	0.002	6232187	2.00	2.03	
1	6.115	6.113	0.002	5429662	2.00	2.02	
1	6.768	6.766	0.002	17032586	2.00	1.99	
Average of Peak Amounts =						2.01	
2	5.365	5.363	0.003	6385593	2.00	2.18	
2	5.403	5.401	0.002	5775888	2.00	2.19	
2	6.183	6.182	0.001	17155548	2.00	2.20	a
2	6.533	6.531	0.001	3117510	2.00	2.07	a

Average of Peak Amounts = 2.16

RPD = 7.28

Reagents:

1242-1268 2.0_00006

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_258.D

Injection Date: 07-Aug-2015 01:15:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 18

Client ID:

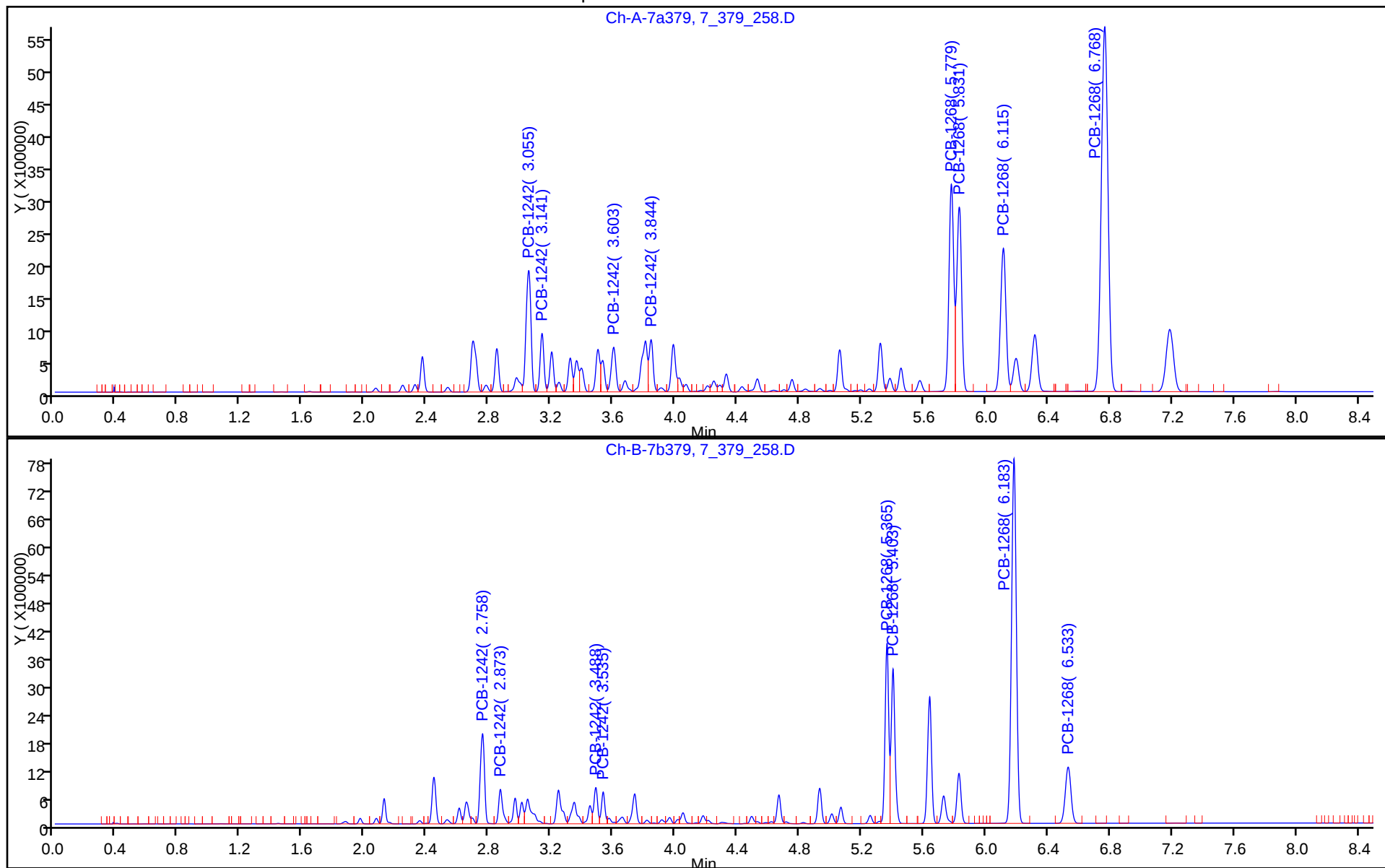
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_259.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-Aug-2015 01:31:22 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:50 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 12:30:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	3.055	3.053	0.002	1085978	0.5000	0.5000	
1	3.142	3.141	0.001	405465	0.5000	0.5000	
1	3.603	3.603	0.001	370445	0.5000	0.5000	
1	3.843	3.843	0.001	337941	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.756	2.756	0.000	910128	0.5000	0.5000	
2	2.871	2.872	-0.001	344645	0.5000	0.5000	
2	3.488	3.487	0.001	319012	0.5000	0.5000	
2	3.534	3.533	0.001	263165	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.781	5.779	0.002	1735886	0.5000	0.5000	
1	5.831	5.829	0.002	1536878	0.5000	0.5000	
1	6.116	6.113	0.003	1344302	0.5000	0.5000	
1	6.771	6.766	0.005	4275843	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.363	5.363	0.001	1461701	0.5000	0.5000	
2	5.403	5.401	0.002	1316961	0.5000	0.5000	
2	6.183	6.182	0.000	3907545	0.5000	0.5000	a
2	6.534	6.531	0.003	754322	0.5000	0.5000	a

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1242-1268 2.0_00006

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_259.D

Injection Date: 07-Aug-2015 01:31:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 19

Client ID:

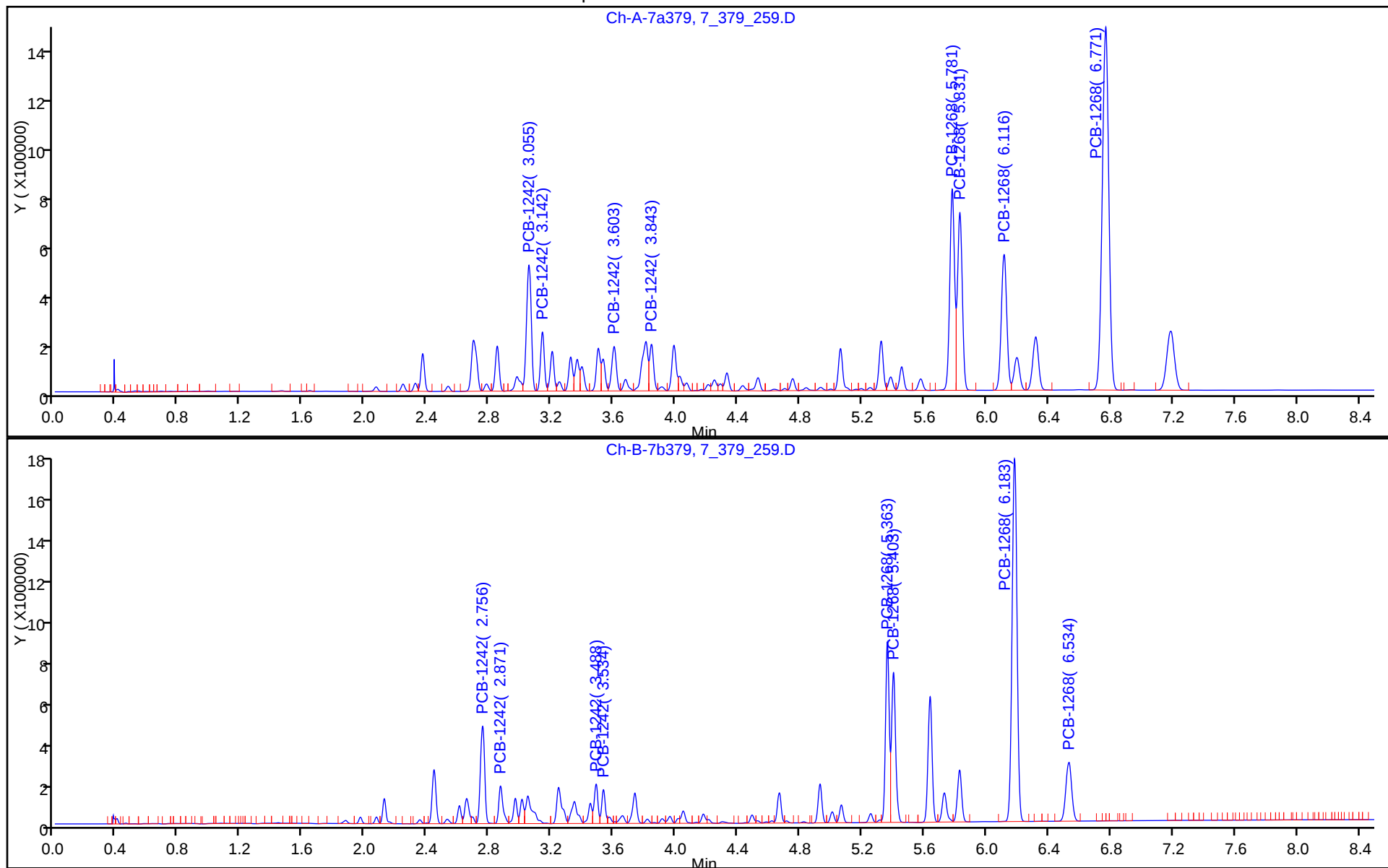
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_260.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-Aug-2015 01:47:13 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:53 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 13:59:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	3.053	3.053	0.000	47989	0.0200	0.0221	M
1	3.141	3.141	0.000	19976	0.0200	0.0246	a
1	3.603	3.603	0.000	17487	0.0200	0.0236	a
1	3.843	3.843	0.000	16887	0.0200	0.0250	a

Average of Peak Amounts = 0.0238

2	2.756	2.756	0.000	41167	0.0200	0.0226	
2	2.872	2.872	0.000	15709	0.0200	0.0228	
2	3.487	3.487	0.000	14606	0.0200	0.0229	a
2	3.533	3.533	0.000	11548	0.0200	0.0219	M

Average of Peak Amounts = 0.0226

RPD = 5.47

11 PCB-1268

1	5.779	5.779	0.000	77294	0.0200	0.0223	
1	5.829	5.829	0.000	69044	0.0200	0.0225	
1	6.113	6.113	0.000	62435	0.0200	0.0232	
1	6.766	6.766	0.000	185873	0.0200	0.0217	

Average of Peak Amounts = 0.0224

2	5.363	5.363	0.000	61524	0.0200	0.0210	
2	5.401	5.401	0.000	54253	0.0200	0.0206	
2	6.182	6.182	0.000	152457	0.0200	0.0195	a
2	6.531	6.531	0.000	33593	0.0200	0.0223	a

Average of Peak Amounts = 0.0209

RPD = 7.24

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1242-1268 2.0_00006

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_260.D

Injection Date: 07-Aug-2015 01:47:13

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 20

Client ID:

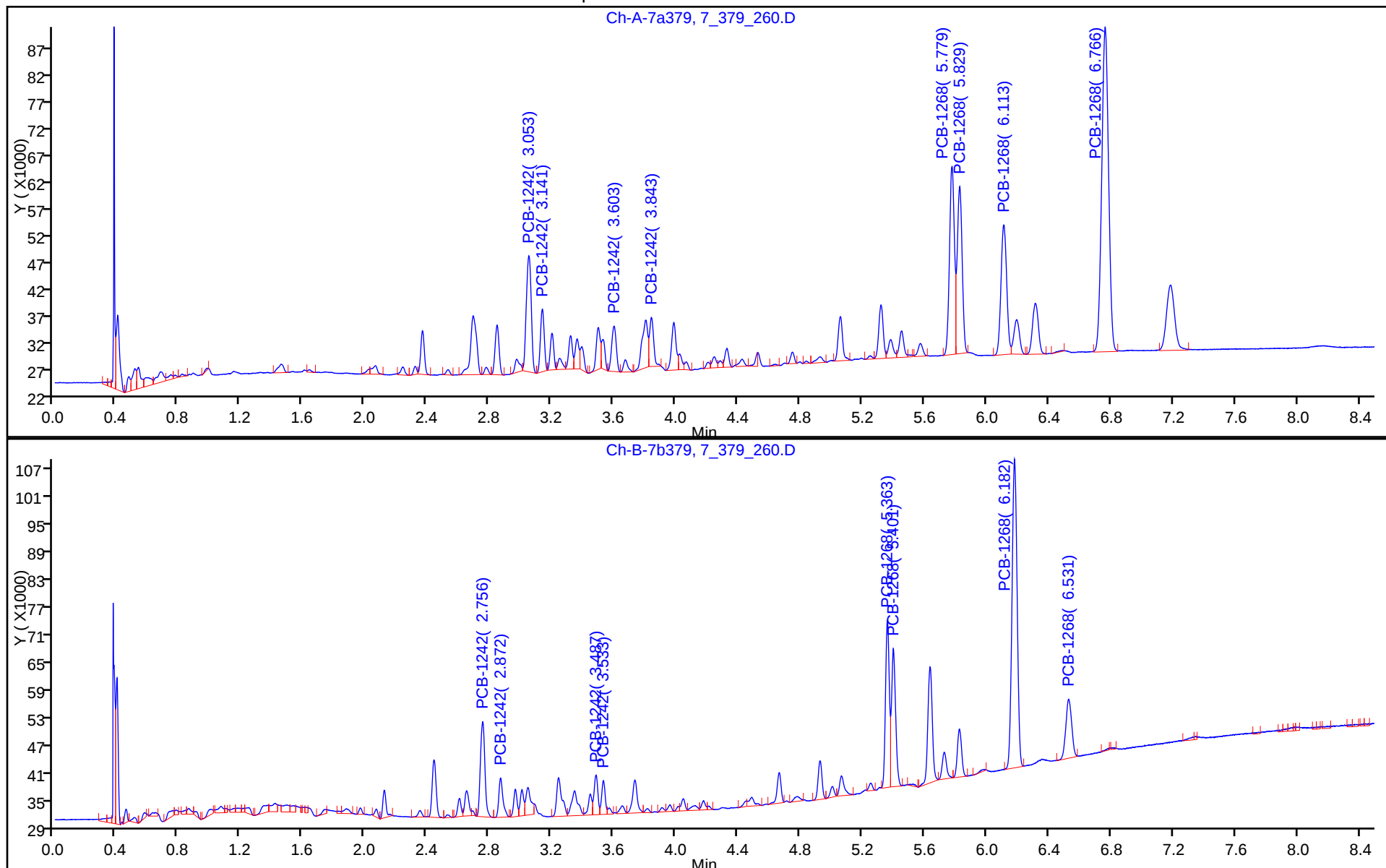
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 01:15 Calibration End Date: 08/07/2015 01:47 Calibration ID: 24452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/20	7_379_260.D
Level 2	STD2 480-257541/19	7_379_259.D
Level 3	STD3 480-257541/18	7_379_258.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1242 Peak 1	+++++	2.756	+++++								2.726 - 2.786	2.756
PCB-1242 Peak 2	+++++	2.871	+++++								2.842 - 2.902	2.871
PCB-1242 Peak 3	+++++	3.488	+++++								3.457 - 3.517	3.488
PCB-1242 Peak 4	+++++	3.534	+++++								3.503 - 3.563	3.534
PCB-1268 Peak 1	+++++	5.363	+++++								5.333 - 5.393	5.363
PCB-1268 Peak 2	+++++	5.403	+++++								5.371 - 5.431	5.403
PCB-1268 Peak 3	+++++	6.183	+++++								6.152 - 6.212	6.183
PCB-1268 Peak 4	+++++	6.534	+++++								6.501 - 6.561	6.534

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 01:15 Calibration End Date: 08/07/2015 01:47 Calibration ID: 24452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/20	7_379_260.D
Level 2	STD2 480-257541/19	7_379_259.D
Level 3	STD3 480-257541/18	7_379_258.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1242 Peak 1	+++++	1820256	+++++		Ave		1820256.00						20.0			
PCB-1242 Peak 2	+++++	689290	+++++		Ave		689290.000						20.0			
PCB-1242 Peak 3	+++++	638024	+++++		Ave		638024.000						20.0			
PCB-1242 Peak 4	+++++	526330	+++++		Ave		526330.000						20.0			
PCB-1268 Peak 1	+++++	2923402	+++++		Ave		2923402.00						20.0			
PCB-1268 Peak 2	+++++	2633922	+++++		Ave		2633922.00						20.0			
PCB-1268 Peak 3	+++++	7815090	+++++		Ave		7815090.00						20.0			
PCB-1268 Peak 4	+++++	1508644	+++++		Ave		1508644.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 01:15 Calibration End Date: 08/07/2015 01:47 Calibration ID: 24452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/20	7_379_260.D
Level 2	STD2 480-257541/19	7_379_259.D
Level 3	STD3 480-257541/18	7_379_258.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	Ave	+++++	910128	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	Ave	+++++	344645	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	Ave	+++++	319012	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	Ave	+++++	263165	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	Ave	+++++	1461701	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	Ave	+++++	1316961	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	Ave	+++++	3907545	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	Ave	+++++	754322	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_258.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-Aug-2015 01:15:22 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:48 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 12:24:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

4 PCB-1242

1	3.055	3.053	0.002	4135148	2.00	1.90	
1	3.141	3.141	0.000	1547773	2.00	1.91	
1	3.603	3.603	0.001	1434398	2.00	1.94	
1	3.844	3.843	0.002	1474546	2.00	2.18	

Average of Peak Amounts = 1.98

2	2.758	2.756	0.002	3698234	2.00	2.03	
2	2.873	2.872	0.000	1366843	2.00	1.98	
2	3.488	3.487	0.001	1299056	2.00	2.04	
2	3.535	3.533	0.002	1075274	2.00	2.04	

Average of Peak Amounts = 2.02

RPD = 2.04

11 PCB-1268

1	5.779	5.779	0.000	6919824	2.00	1.99	
1	5.831	5.829	0.002	6232187	2.00	2.03	
1	6.115	6.113	0.002	5429662	2.00	2.02	
1	6.768	6.766	0.002	17032586	2.00	1.99	
Average of Peak Amounts =						2.01	
2	5.365	5.363	0.003	6385593	2.00	2.18	
2	5.403	5.401	0.002	5775888	2.00	2.19	
2	6.183	6.182	0.001	17155548	2.00	2.20	a
2	6.533	6.531	0.001	3117510	2.00	2.07	a

Average of Peak Amounts = 2.16

RPD = 7.28

Reagents:

1242-1268 2.0_00006

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_258.D

Injection Date: 07-Aug-2015 01:15:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 18

Client ID:

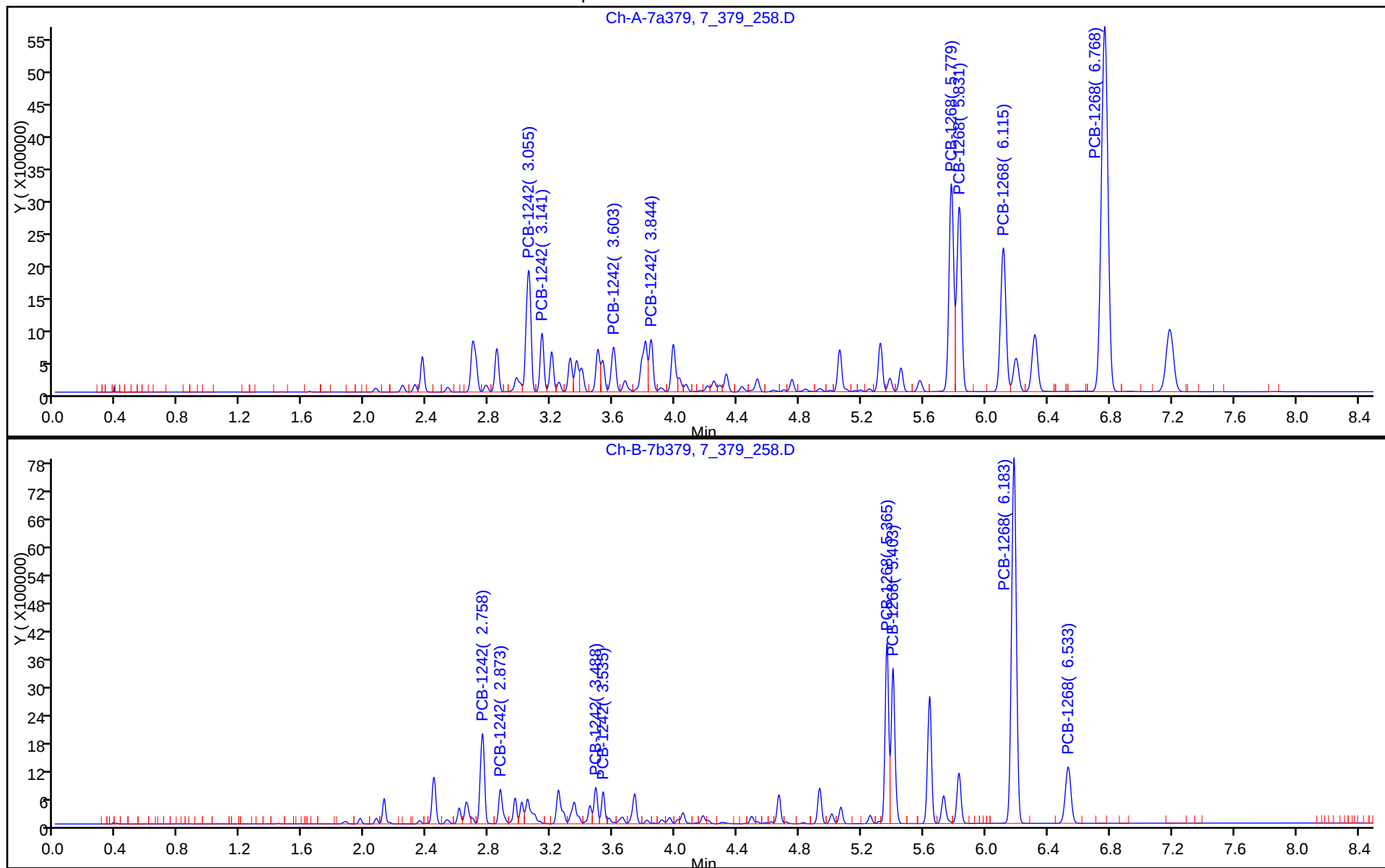
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_259.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-Aug-2015 01:31:22 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:50 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 12:30:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	3.055	3.053	0.002	1085978	0.5000	0.5000	
1	3.142	3.141	0.001	405465	0.5000	0.5000	
1	3.603	3.603	0.001	370445	0.5000	0.5000	
1	3.843	3.843	0.001	337941	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.756	2.756	0.000	910128	0.5000	0.5000	
2	2.871	2.872	-0.001	344645	0.5000	0.5000	
2	3.488	3.487	0.001	319012	0.5000	0.5000	
2	3.534	3.533	0.001	263165	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.781	5.779	0.002	1735886	0.5000	0.5000	
1	5.831	5.829	0.002	1536878	0.5000	0.5000	
1	6.116	6.113	0.003	1344302	0.5000	0.5000	
1	6.771	6.766	0.005	4275843	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.363	5.363	0.001	1461701	0.5000	0.5000	
2	5.403	5.401	0.002	1316961	0.5000	0.5000	
2	6.183	6.182	0.000	3907545	0.5000	0.5000	a
2	6.534	6.531	0.003	754322	0.5000	0.5000	a

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1242-1268 2.0_00006

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_259.D

Injection Date: 07-Aug-2015 01:31:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 19

Client ID:

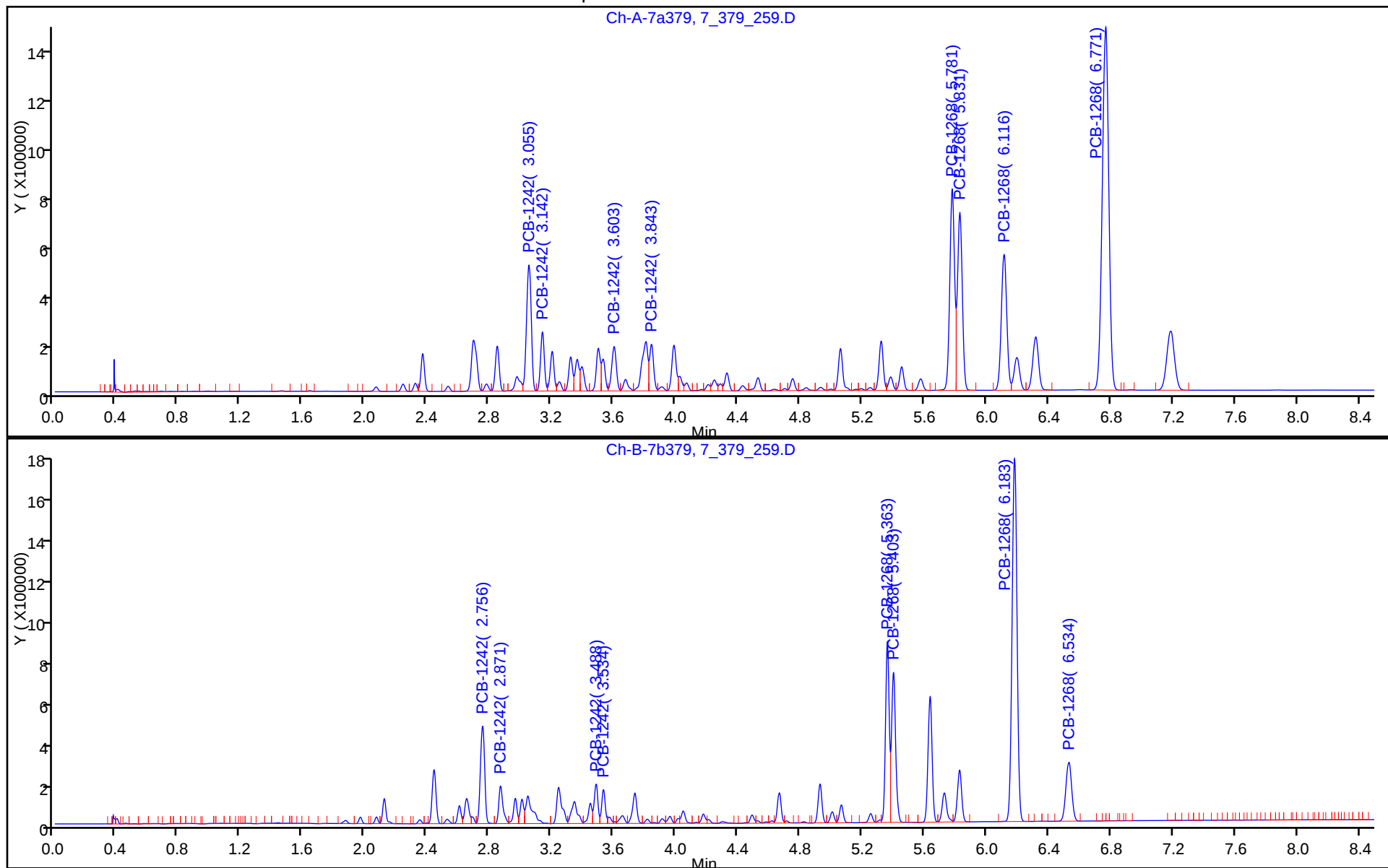
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_260.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-Aug-2015 01:47:13 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:53 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj Date: 07-Aug-2015 13:59:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	3.053	3.053	0.000	47989	0.0200	0.0221	M
1	3.141	3.141	0.000	19976	0.0200	0.0246	a
1	3.603	3.603	0.000	17487	0.0200	0.0236	a
1	3.843	3.843	0.000	16887	0.0200	0.0250	a

Average of Peak Amounts = 0.0238

2	2.756	2.756	0.000	41167	0.0200	0.0226	
2	2.872	2.872	0.000	15709	0.0200	0.0228	
2	3.487	3.487	0.000	14606	0.0200	0.0229	a
2	3.533	3.533	0.000	11548	0.0200	0.0219	M

Average of Peak Amounts = 0.0226

RPD = 5.47

11 PCB-1268

1	5.779	5.779	0.000	77294	0.0200	0.0223	
1	5.829	5.829	0.000	69044	0.0200	0.0225	
1	6.113	6.113	0.000	62435	0.0200	0.0232	
1	6.766	6.766	0.000	185873	0.0200	0.0217	

Average of Peak Amounts = 0.0224

2	5.363	5.363	0.000	61524	0.0200	0.0210	
2	5.401	5.401	0.000	54253	0.0200	0.0206	
2	6.182	6.182	0.000	152457	0.0200	0.0195	a
2	6.531	6.531	0.000	33593	0.0200	0.0223	a

Average of Peak Amounts = 0.0209

RPD = 7.24

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1242-1268 2.0_00006

Amount Added: 10.00

Units: uL

Report Date: 07-Aug-2015 14:24:55

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_260.D

Injection Date: 07-Aug-2015 01:47:13

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 20

Client ID:

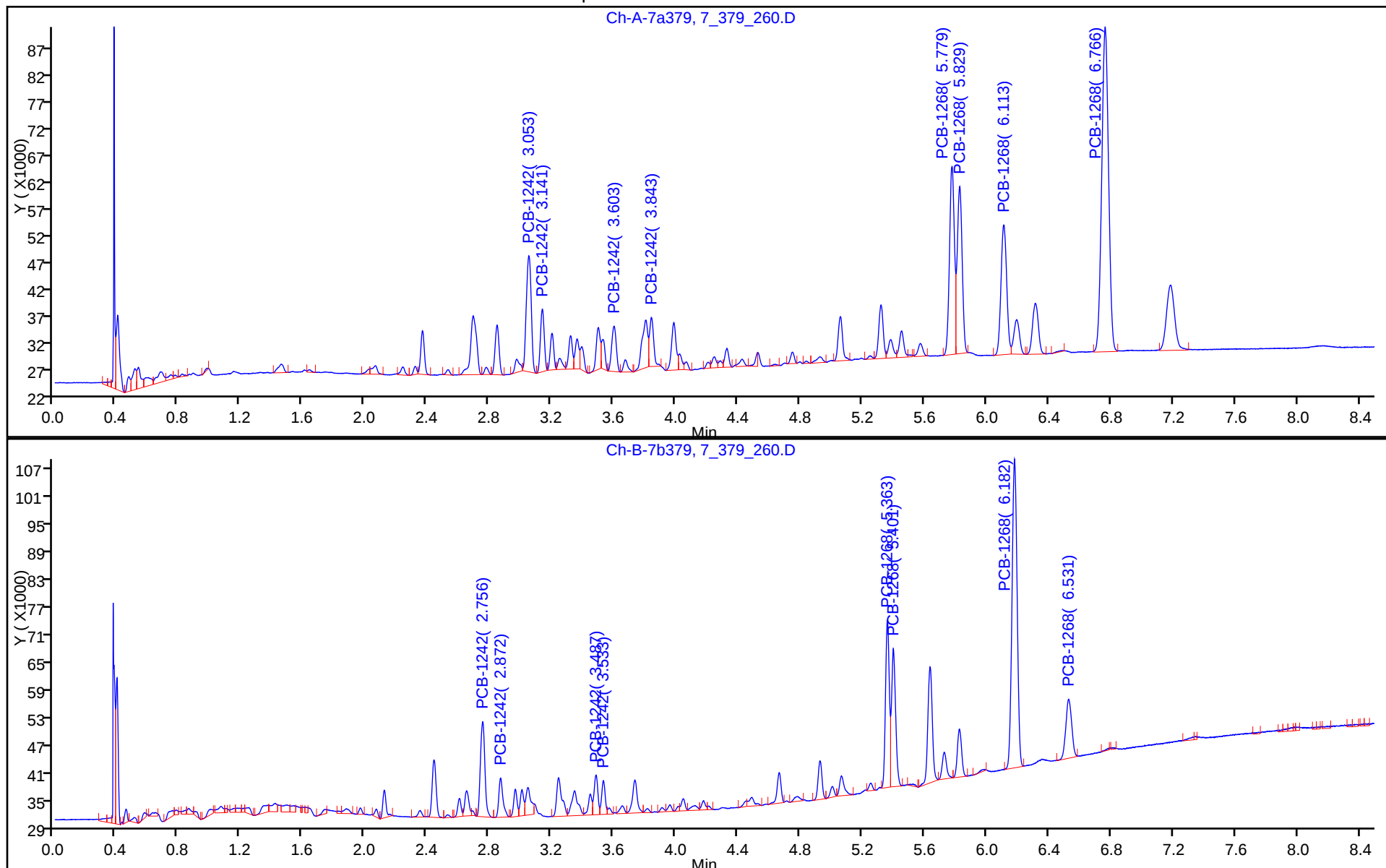
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_260.D

Injection Date: 07-Aug-2015 01:47:13

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 20

Injection Vol: 1.0 ul

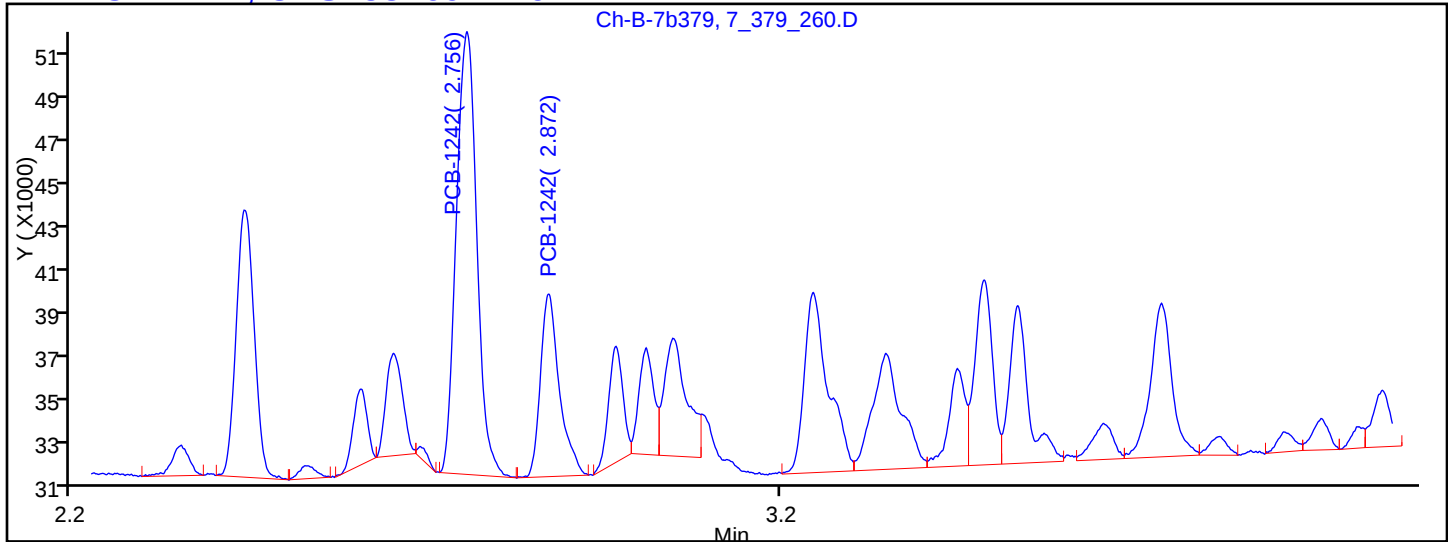
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

4 PCB-1242, CAS: 53469-21-9

Processing Integration Results

RT = 2.756 Response = 41167

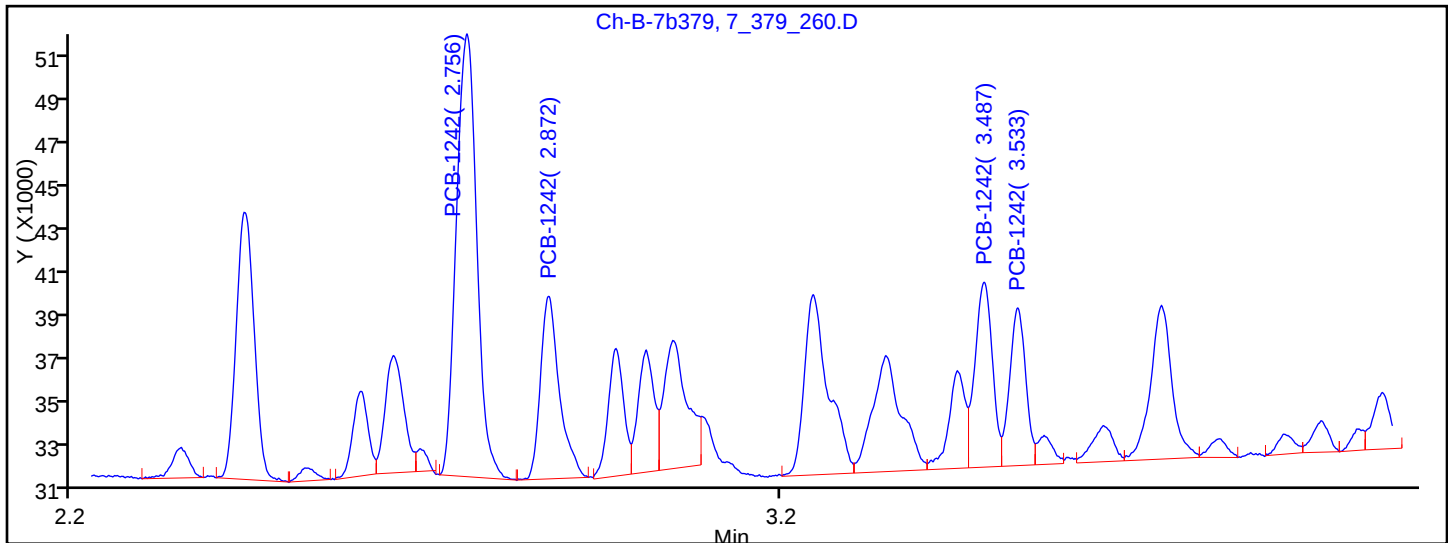
RT = 2.872 Response = 15709

RT = 3.533 Response = 13568

RT = 3.737 Response = 14975

M

M



Manual Integration Results

RT = 2.756 Response = 41167

RT = 2.872 Response = 15709

RT = 3.487 Response = 14606

RT = 3.533 Response = 11548

M

M

Reviewer: larsonj, 07-Aug-2015 12:38:06

Audit Action: Assigned Compound ID

Audit Reason:

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 02:18 Calibration End Date: 08/07/2015 02:50 Calibration ID: 24475

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/24	7_379_264.D
Level 2	STD2 480-257541/23	7_379_263.D
Level 3	STD3 480-257541/22	7_379_262.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1248 Peak 1	+++++	3.604	+++++								3.572 - 3.632	3.604
PCB-1248 Peak 2	+++++	3.809	+++++								3.778 - 3.838	3.809
PCB-1248 Peak 3	+++++	3.846	+++++								3.814 - 3.874	3.846
PCB-1248 Peak 4	+++++	3.988	+++++								3.958 - 4.018	3.988

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 02:18 Calibration End Date: 08/07/2015 02:50 Calibration ID: 24475

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/24	7_379_264.D
Level 2	STD2 480-257541/23	7_379_263.D
Level 3	STD3 480-257541/22	7_379_262.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1248 Peak 1	+++++	1137152	+++++		Ave		1137152.00						20.0			
PCB-1248 Peak 2	+++++	1832088	+++++		Ave		1832088.00						20.0			
PCB-1248 Peak 3	+++++	1181132	+++++		Ave		1181132.00						20.0			
PCB-1248 Peak 4	+++++	1134730	+++++		Ave		1134730.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 02:18 Calibration End Date: 08/07/2015 02:50 Calibration ID: 24475

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/24	7_379_264.D
Level 2	STD2 480-257541/23	7_379_263.D
Level 3	STD3 480-257541/22	7_379_262.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	Ave	+++++	568576	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	Ave	+++++	916044	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	Ave	+++++	590566	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	Ave	+++++	567365	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_262.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-Aug-2015 02:18:55 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:59 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:52:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.604	3.602	0.002	2216065	2.00	1.95	a
1	3.808	3.808	0.000	3573236	2.00	1.95	a
1	3.845	3.844	0.001	2645720	2.00	2.24	a
1	3.988	3.988	0.000	2250529	2.00	1.98	a

Average of Peak Amounts = 2.03

2	3.245	3.246	-0.001	1894762	2.00	1.96	a
2	3.488	3.488	0.000	2294381	2.00	2.01	a
2	3.534	3.535	-0.001	1716034	2.00	2.01	a
2	3.736	3.738	-0.002	2024678	2.00	2.13	a

Average of Peak Amounts = 2.03

RPD = 0.15

Reagents:

1248 2.0_00005

Amount Added: 1.00

Units: mL

Report Date: 07-Aug-2015 14:25:00

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_262.D

Injection Date: 07-Aug-2015 02:18:55

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 22

Client ID:

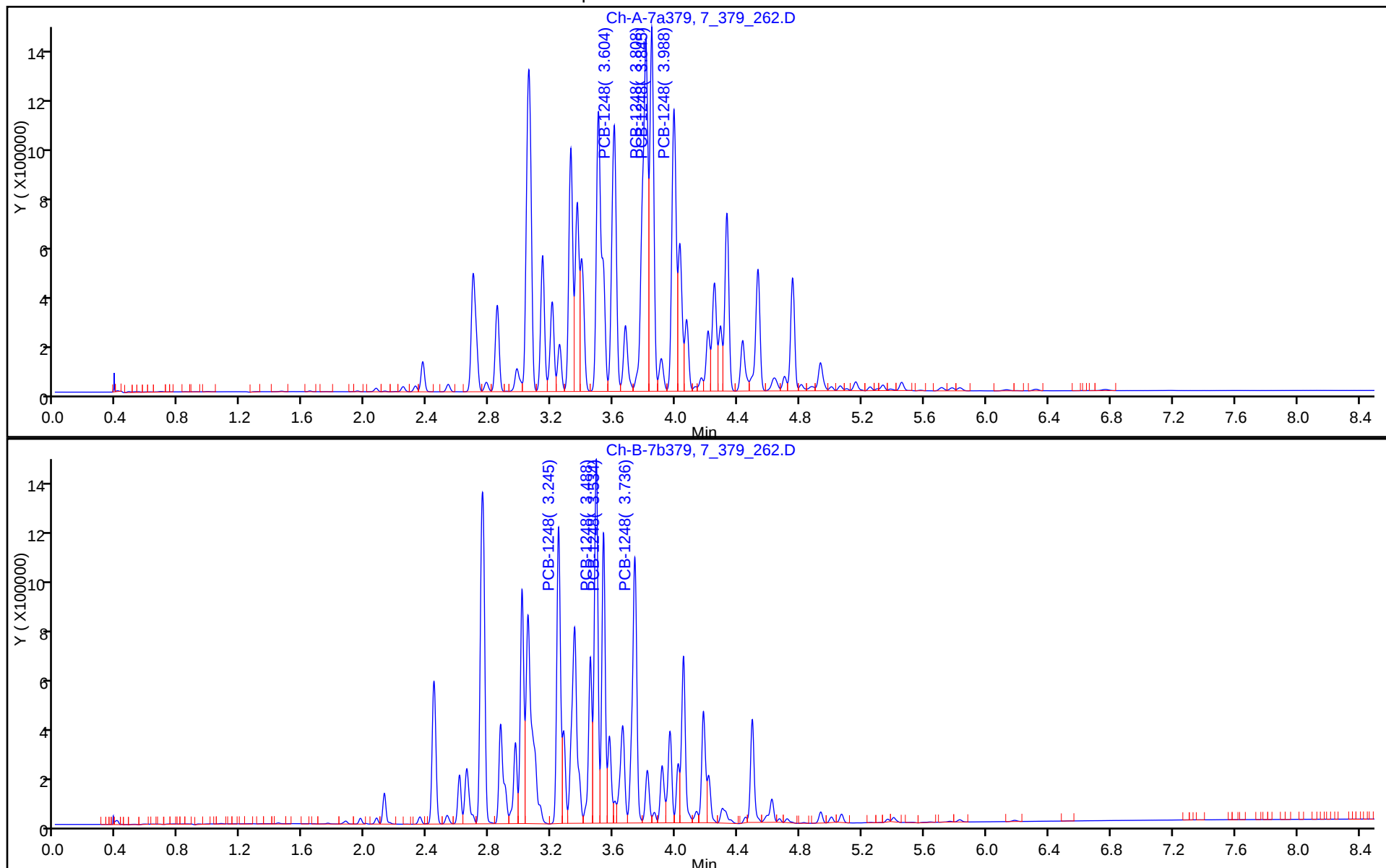
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_263.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-Aug-2015 02:34:58 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:25:02 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:53:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.604	3.602	0.002	568576	0.5000	0.5000
1	3.809	3.808	0.001	916044	0.5000	0.5000
1	3.846	3.844	0.002	590566	0.5000	0.5000
1	3.988	3.988	0.000	567365	0.5000	0.5000

Average of Peak Amounts = 0.5000

2	3.246	3.246	0.000	482741	0.5000	0.5000
2	3.488	3.488	0.000	571717	0.5000	0.5000
2	3.536	3.535	0.001	426461	0.5000	0.5000
2	3.738	3.738	0.000	475425	0.5000	0.5000

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1248 2.0_00005

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_263.D

Injection Date: 07-Aug-2015 02:34:58

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 23

Client ID:

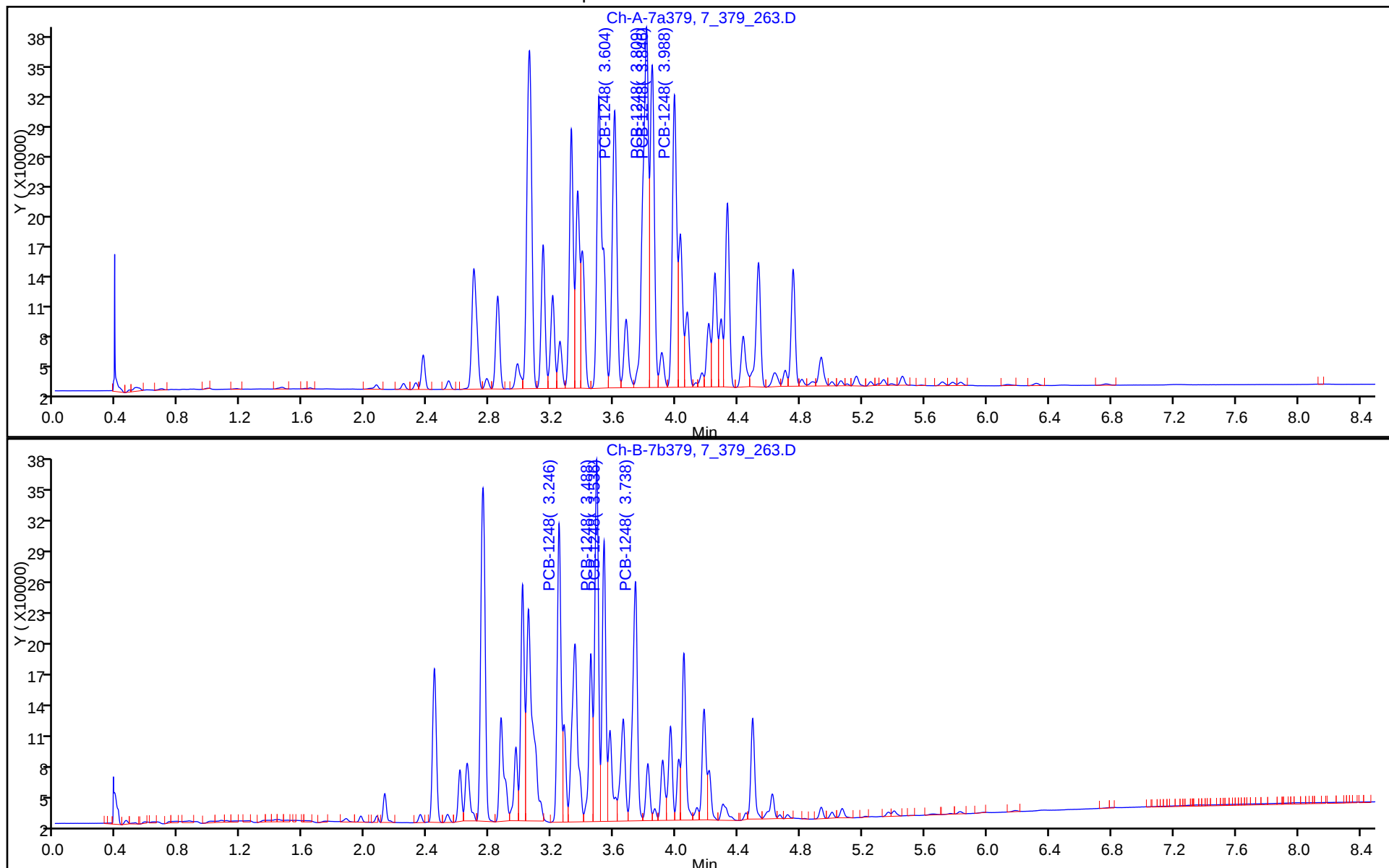
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-Aug-2015 02:50:41 ALS Bottle#: 0 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:25:06 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:53:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248							M
1	3.602	3.602	0.000	29129	0.0200	0.0256	M
1	3.808	3.808	0.000	44864	0.0200	0.0245	M
1	3.844	3.844	0.000	33285	0.0200	0.0282	M
1	3.988	3.988	0.000	28200	0.0200	0.0249	M
Average of Peak Amounts =						0.0258	
2	3.246	3.246	0.000	24229	0.0200	0.0251	M
2	3.488	3.488	0.000	27090	0.0200	0.0237	
2	3.535	3.535	0.000	20076	0.0200	0.0235	
2	3.738	3.738	0.000	24798	0.0200	0.0261	
Average of Peak Amounts =						0.0246	
RPD = 4.70							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1248 2.0_00005

Amount Added: 10.00

Units: uL

Report Date: 07-Aug-2015 14:25:07

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Injection Date: 07-Aug-2015 02:50:41

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 24

Client ID:

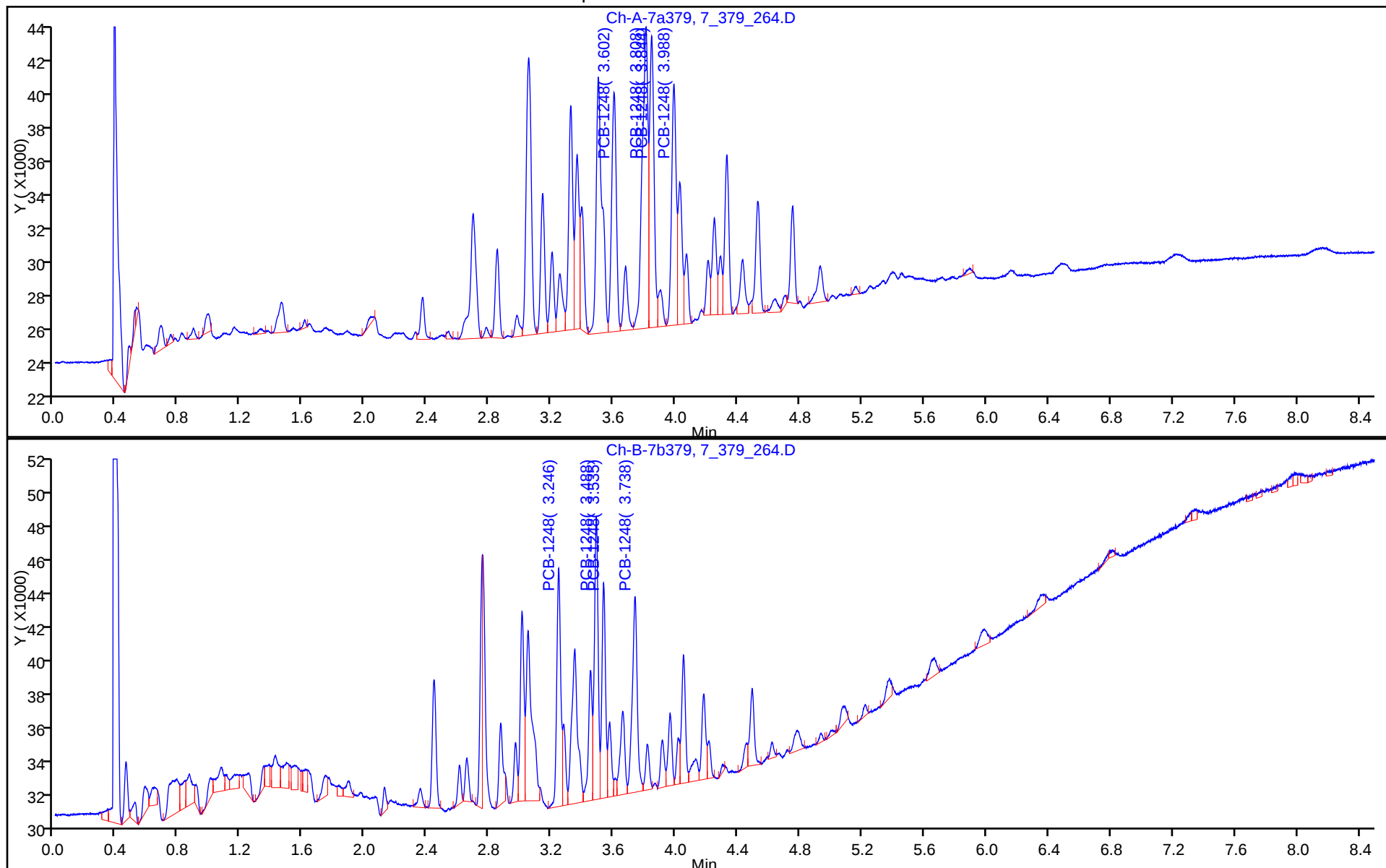
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Injection Date: 07-Aug-2015 02:50:41

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 24

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

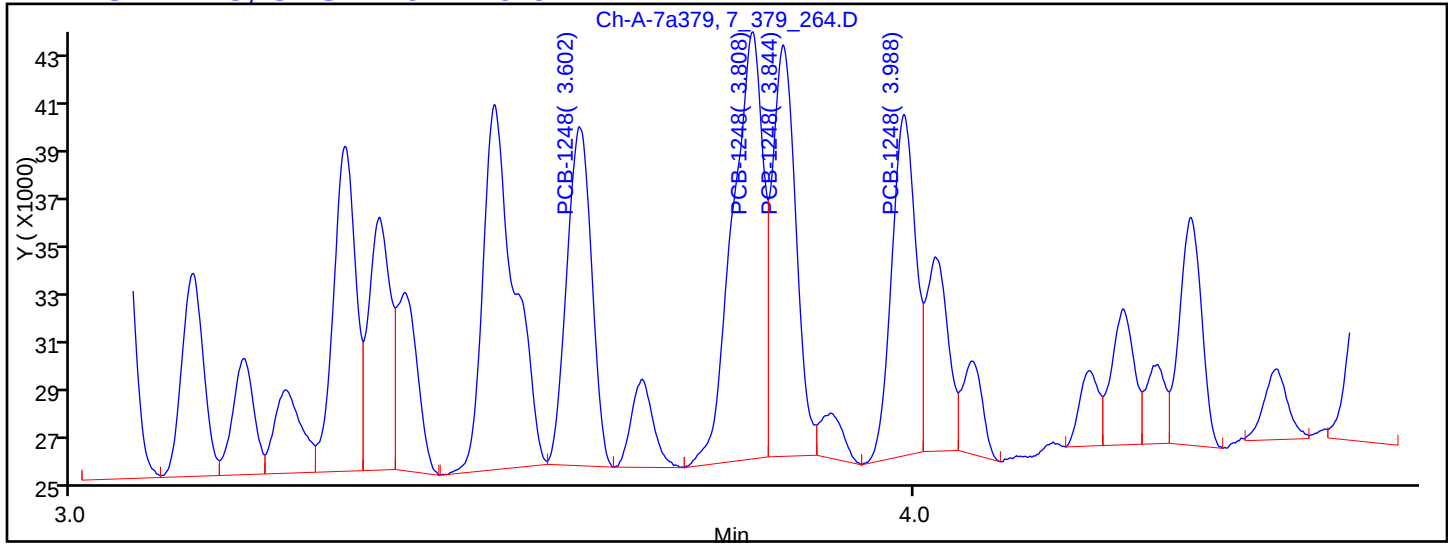
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

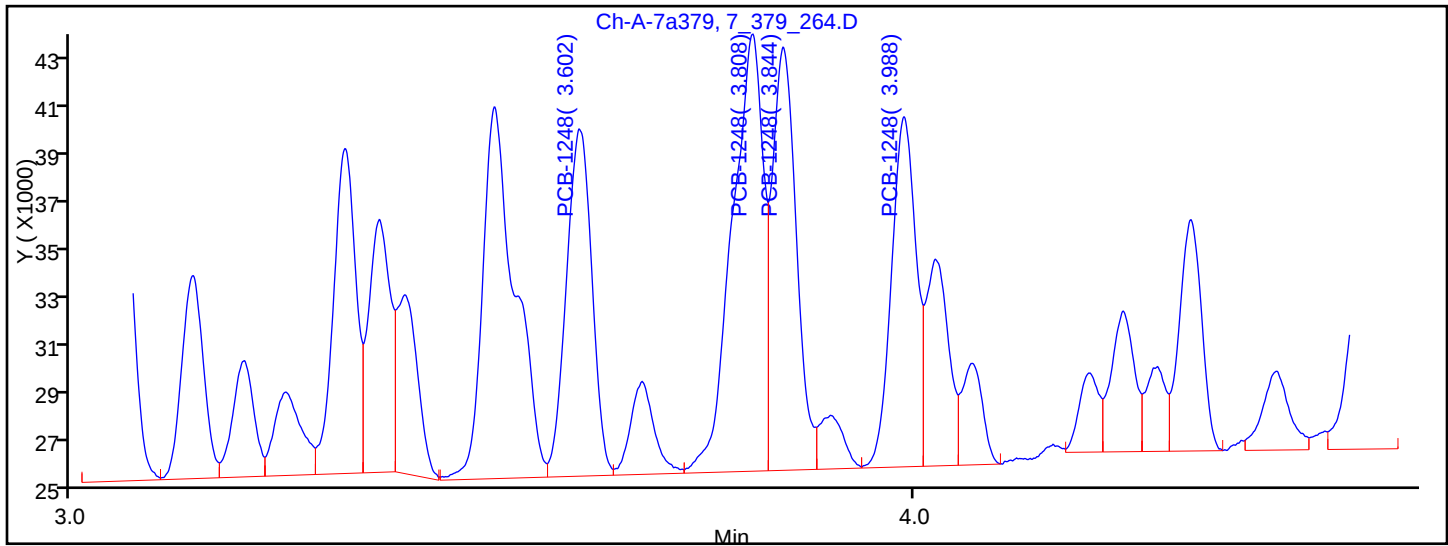
Detector Ch-A-7A136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

RT = 3.602	Response = 27611	M
RT = 3.808	Response = 43094	M
RT = 3.844	Response = 31677	M
RT = 3.988	Response = 27039	M



Manual Integration Results

RT = 3.602	Response = 29129	M
RT = 3.808	Response = 44864	M
RT = 3.844	Response = 33285	M
RT = 3.988	Response = 28200	M

Reviewer: larsonj, 07-Aug-2015 12:53:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 02:18 Calibration End Date: 08/07/2015 02:50 Calibration ID: 24476

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/24	7_379_264.D
Level 2	STD2 480-257541/23	7_379_263.D
Level 3	STD3 480-257541/22	7_379_262.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1248 Peak 1	+++++	3.246	+++++								3.216 - 3.276	3.246
PCB-1248 Peak 2	+++++	3.488	+++++								3.458 - 3.518	3.488
PCB-1248 Peak 3	+++++	3.536	+++++								3.505 - 3.565	3.536
PCB-1248 Peak 4	+++++	3.738	+++++								3.708 - 3.768	3.738

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 02:18 Calibration End Date: 08/07/2015 02:50 Calibration ID: 24476

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/24	7_379_264.D
Level 2	STD2 480-257541/23	7_379_263.D
Level 3	STD3 480-257541/22	7_379_262.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
PCB-1248 Peak 1	+++++	965482	+++++		Ave		965482.000						20.0			
PCB-1248 Peak 2	+++++	1143434	+++++		Ave		1143434.00						20.0			
PCB-1248 Peak 3	+++++	852922	+++++		Ave		852922.000						20.0			
PCB-1248 Peak 4	+++++	950850	+++++		Ave		950850.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1 Analy Batch No.: 257541

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2015 02:18 Calibration End Date: 08/07/2015 02:50 Calibration ID: 24476

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-257541/24	7_379_264.D
Level 2	STD2 480-257541/23	7_379_263.D
Level 3	STD3 480-257541/22	7_379_262.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	Ave	+++++	482741	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	Ave	+++++	571717	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	Ave	+++++	426461	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	Ave	+++++	475425	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_262.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-Aug-2015 02:18:55 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:24:59 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:52:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.604	3.602	0.002	2216065	2.00	1.95	a
1	3.808	3.808	0.000	3573236	2.00	1.95	a
1	3.845	3.844	0.001	2645720	2.00	2.24	a
1	3.988	3.988	0.000	2250529	2.00	1.98	a

Average of Peak Amounts = 2.03

2	3.245	3.246	-0.001	1894762	2.00	1.96	a
2	3.488	3.488	0.000	2294381	2.00	2.01	a
2	3.534	3.535	-0.001	1716034	2.00	2.01	a
2	3.736	3.738	-0.002	2024678	2.00	2.13	a

Average of Peak Amounts = 2.03

RPD = 0.15

Reagents:

1248 2.0_00005

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_262.D

Injection Date: 07-Aug-2015 02:18:55

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 22

Client ID:

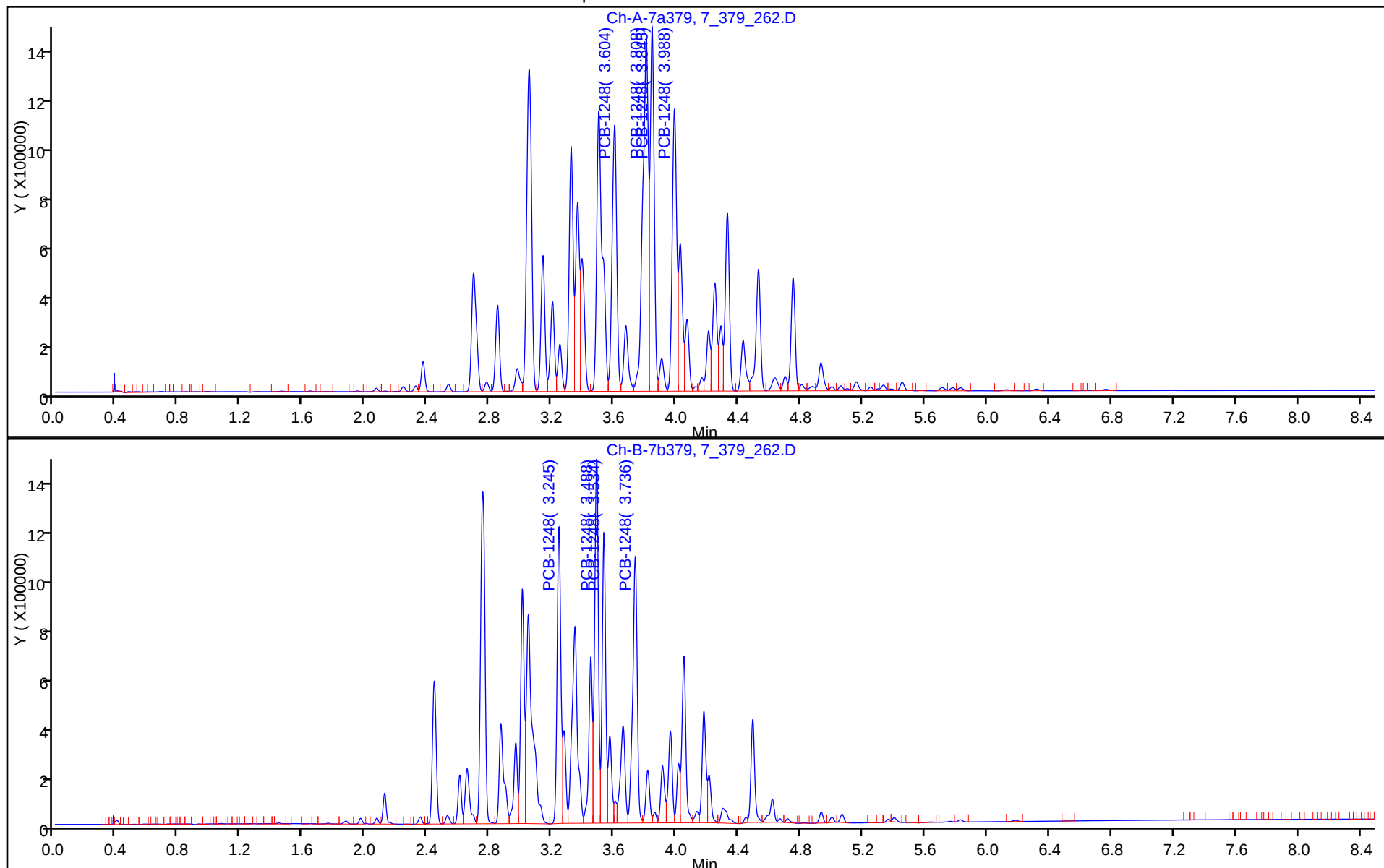
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_263.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-Aug-2015 02:34:58 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:25:02 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:53:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.604	3.602	0.002	568576	0.5000	0.5000
1	3.809	3.808	0.001	916044	0.5000	0.5000
1	3.846	3.844	0.002	590566	0.5000	0.5000
1	3.988	3.988	0.000	567365	0.5000	0.5000

Average of Peak Amounts = 0.5000

2	3.246	3.246	0.000	482741	0.5000	0.5000
2	3.488	3.488	0.000	571717	0.5000	0.5000
2	3.536	3.535	0.001	426461	0.5000	0.5000
2	3.738	3.738	0.000	475425	0.5000	0.5000

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1248 2.0_00005

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_263.D

Injection Date: 07-Aug-2015 02:34:58

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 23

Client ID:

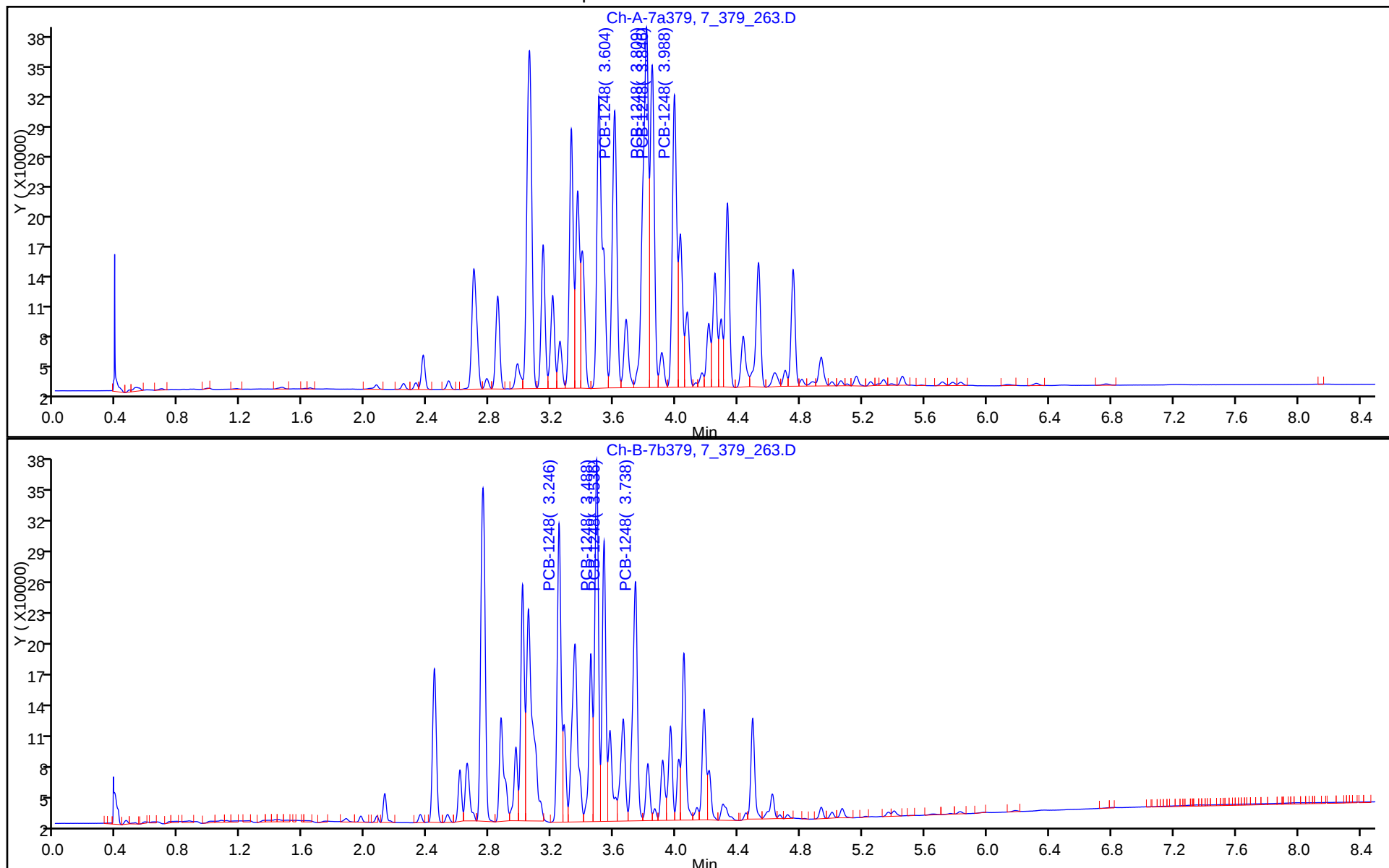
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-Aug-2015 02:50:41 ALS Bottle#: 0 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 07-Aug-2015 14:25:06 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK002

First Level Reviewer: larsonj

Date: 07-Aug-2015 12:53:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248							M
1	3.602	3.602	0.000	29129	0.0200	0.0256	M
1	3.808	3.808	0.000	44864	0.0200	0.0245	M
1	3.844	3.844	0.000	33285	0.0200	0.0282	M
1	3.988	3.988	0.000	28200	0.0200	0.0249	M
Average of Peak Amounts =						0.0258	
2	3.246	3.246	0.000	24229	0.0200	0.0251	M
2	3.488	3.488	0.000	27090	0.0200	0.0237	
2	3.535	3.535	0.000	20076	0.0200	0.0235	
2	3.738	3.738	0.000	24798	0.0200	0.0261	
Average of Peak Amounts =						0.0246	
RPD = 4.70							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1248 2.0_00005

Amount Added: 10.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Injection Date: 07-Aug-2015 02:50:41

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 24

Client ID:

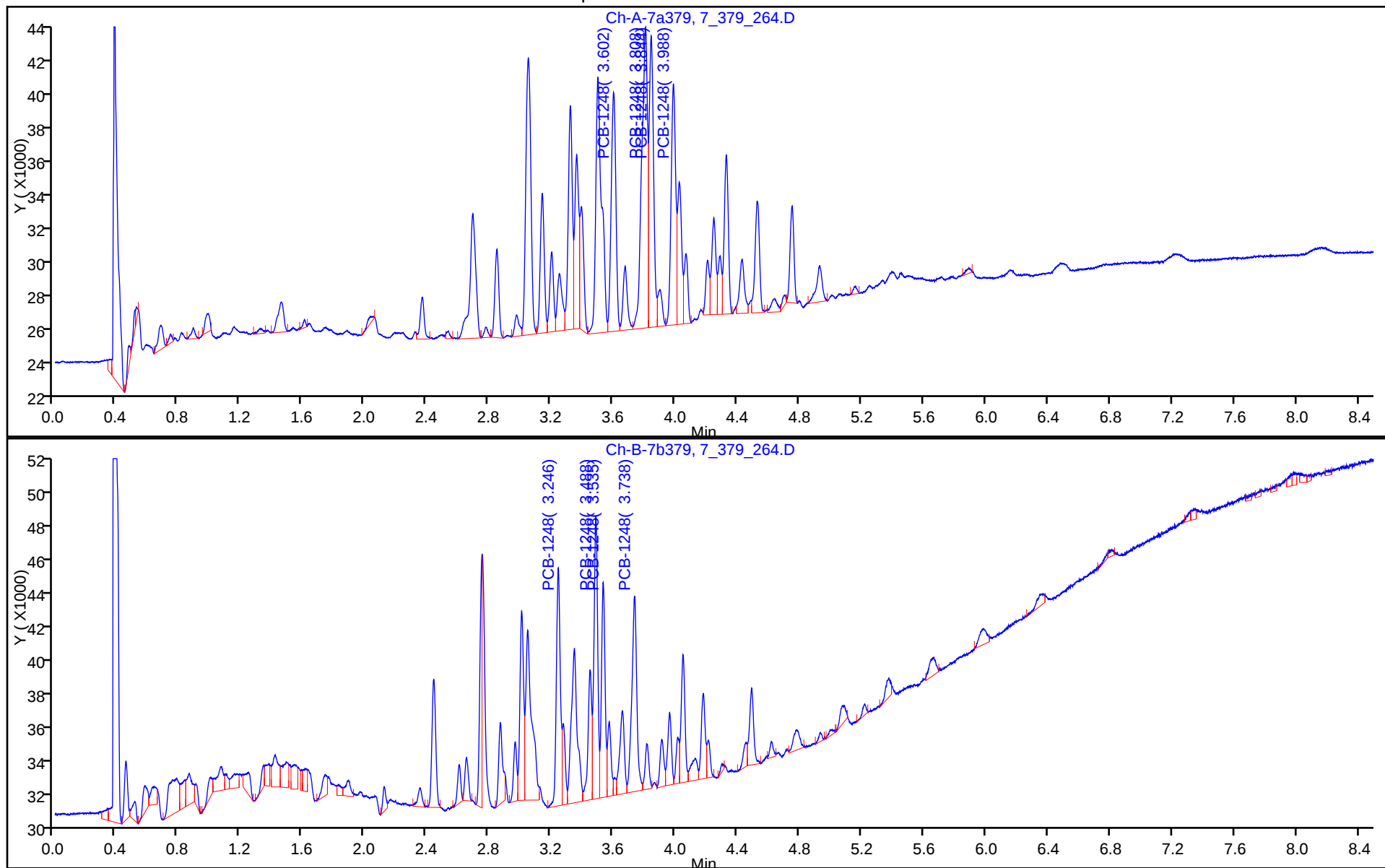
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Injection Date: 07-Aug-2015 02:50:41

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#:

24

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: HP7-PCBS

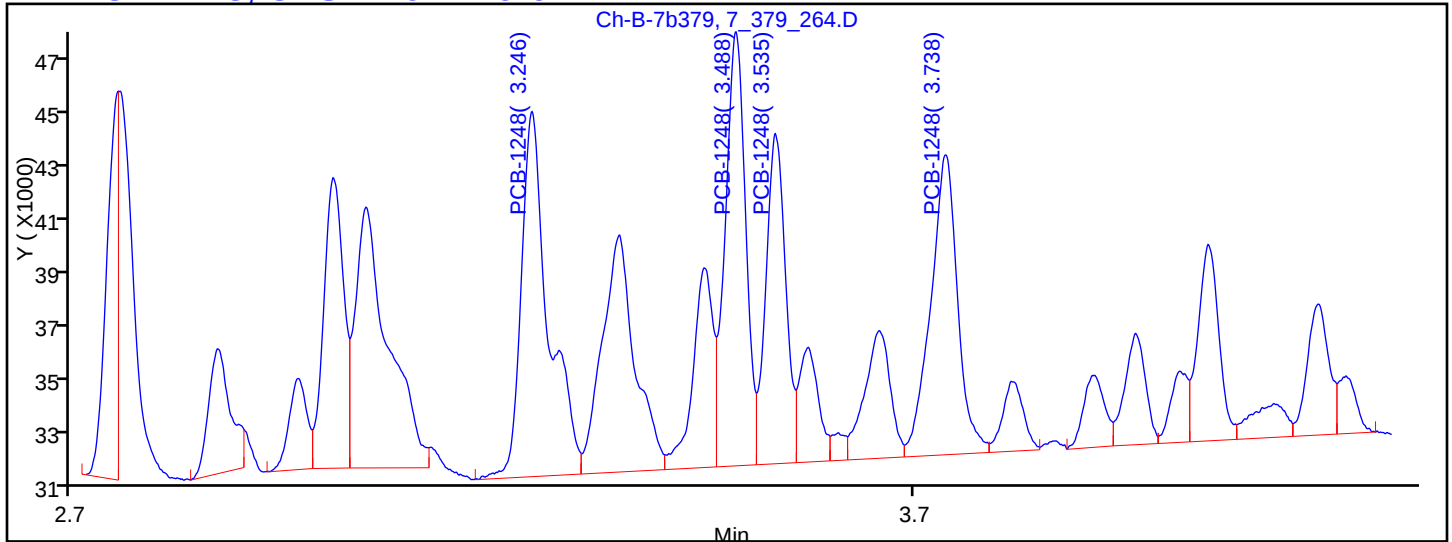
Limit Group:

GC - 8082A PCB ICAL

Column:

Detector

Ch-B-7b136

7 PCB-1248, CAS: 12672-29-6

Processing Integration Results

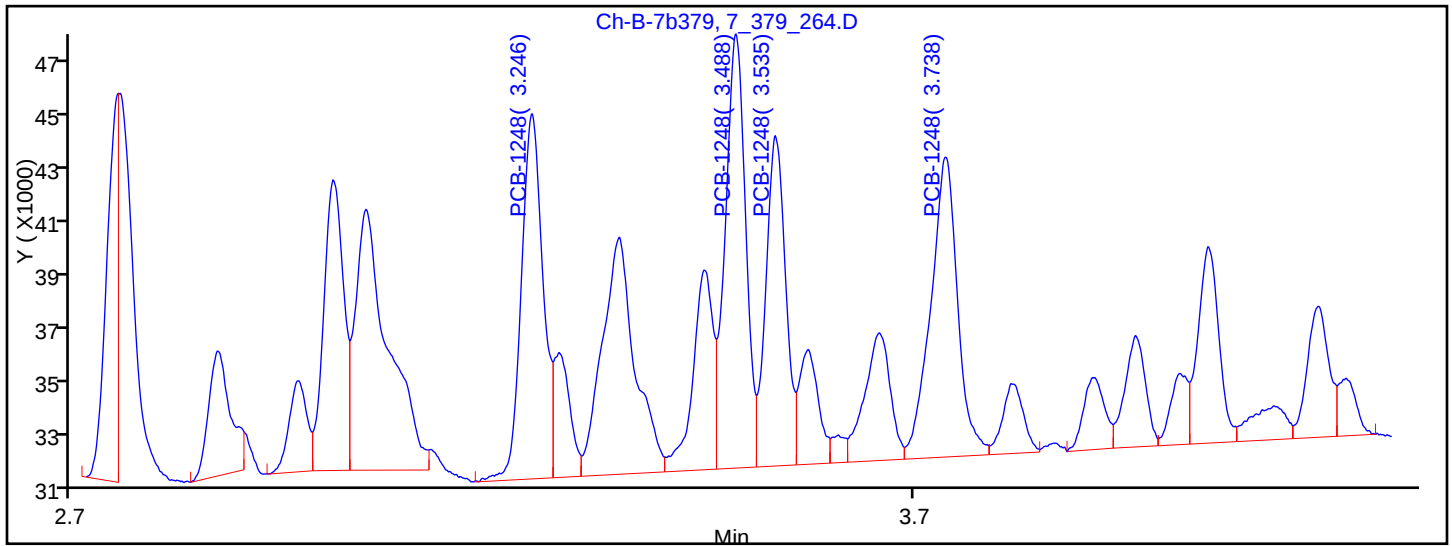
RT = 3.246 Response = 30292

M

RT = 3.488 Response = 27090

RT = 3.535 Response = 20076

RT = 3.738 Response = 24798



Manual Integration Results

RT = 3.246 Response = 24229

M

RT = 3.488 Response = 27090

RT = 3.535 Response = 20076

RT = 3.738 Response = 24798

Reviewer: larsonj, 07-Aug-2015 14:16:09

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/4 Calibration Date: 10/21/2015 09:42
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_004.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	2708151	2646934		0.489	0.500	-2.3	20.0
PCB-1016 Peak 2	Ave	702119	656706		0.468	0.500	-6.5	20.0
PCB-1016 Peak 3	Ave	814385	717636		0.441	0.500	-11.9	20.0
PCB-1016 Peak 4	Ave	919006	807114		0.439	0.500	-12.2	20.0
PCB-1260 Peak 1	Ave	1707187	1530396		0.448	0.500	-10.4	20.0
PCB-1260 Peak 2	Ave	2091662	1980344		0.473	0.500	-5.3	20.0
PCB-1260 Peak 3	Ave	2840418	2731850		0.481	0.500	-3.8	20.0
PCB-1260 Peak 4	Ave	1357171	1297034		0.478	0.500	-4.4	20.0
Tetrachloro-m-xylene	Ave	39747237	38822933		0.0293	0.0300	-2.3	20.0
DCB Decachlorobiphenyl	Ave	25821643	22587733		0.0262	0.0300	-12.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/4 Calibration Date: 10/21/2015 09:42
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_004.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.02	2.99	3.05
PCB-1016 Peak 2	3.17	3.14	3.20
PCB-1016 Peak 3	3.46	3.43	3.49
PCB-1016 Peak 4	3.56	3.53	3.59
PCB-1260 Peak 1	4.66	4.63	4.69
PCB-1260 Peak 2	4.89	4.86	4.92
PCB-1260 Peak 3	5.41	5.38	5.44
PCB-1260 Peak 4	5.66	5.63	5.69
Tetrachloro-m-xylene	2.08	2.05	2.11
DCB Decachlorobiphenyl	7.10	7.04	7.16

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_004.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2015 09:42:02 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:19:45 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK006

First Level Reviewer: sobolk Date: 21-Oct-2015 13:19:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.077	2.077	0.000	1164688	0.0300	0.0293	
2	1.689	1.689	0.000	1203768	0.0300	0.0351	
						RPD = 18.06	

6 PCB-1016

1	3.020	3.020	0.000	1323467	0.5000	0.4887	
1	3.167	3.167	0.000	328353	0.5000	0.4677	
1	3.463	3.463	0.000	358818	0.5000	0.4406	
1	3.564	3.564	0.000	403557	0.5000	0.4391	
Average of Peak Amounts =						0.4590	
2	2.406	2.406	0.000	758942	0.5000	0.6480	
2	2.568	2.568	0.000	221833	0.5000	0.6486	
2	2.718	2.718	0.000	1605915	0.5000	0.6945	
2	2.831	2.831	0.000	603390	0.5000	0.6959	
Average of Peak Amounts =						0.6718	
						RPD = 37.63	

9 PCB-1260

1	4.658	4.658	0.000	765198	0.5000	0.4482	
1	4.888	4.888	0.000	990172	0.5000	0.4734	
1	5.411	5.411	0.000	1365925	0.5000	0.4809	
1	5.660	5.660	0.000	648517	0.5000	0.4778	
Average of Peak Amounts =						0.4701	
2	4.253	4.253	0.000	997811	0.5000	0.7041	
2	4.540	4.540	0.000	514909	0.5000	0.4333	
2	5.018	5.018	0.000	1779573	0.5000	0.6828	
2	5.353	5.353	0.000	1021949	0.5000	0.6633	
Average of Peak Amounts =						0.6209	
						RPD = 27.64	

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_004.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.097	7.097	0.000	677632	0.0300	0.0262
2	6.448	6.448	0.000	773082	0.0300	0.0353

RPD = 29.39

Reagents:

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_004.D

Injection Date: 21-Oct-2015 09:42:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

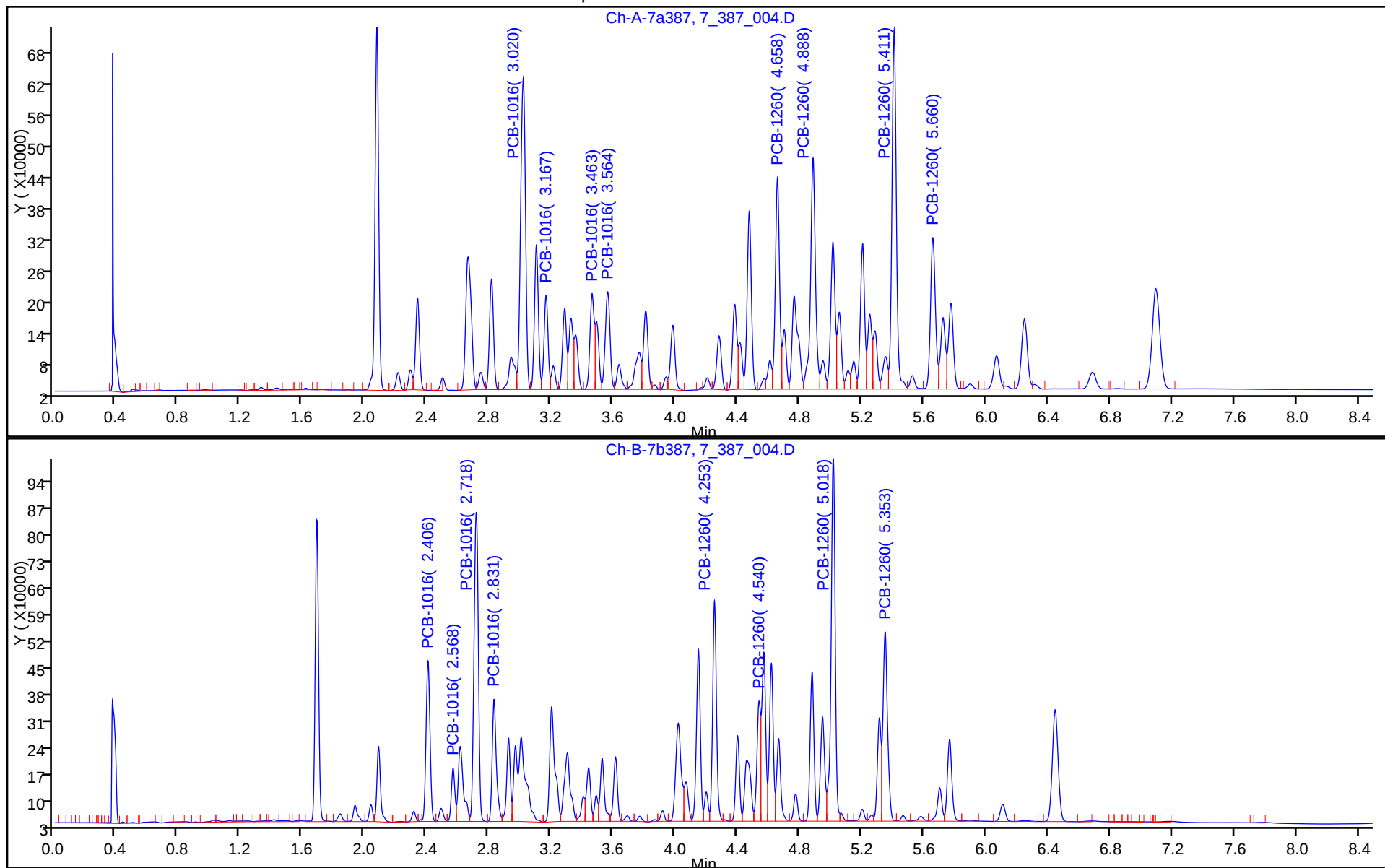
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/4 Calibration Date: 10/21/2015 09:42
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_004.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	1171234	1517884		0.648	0.500	29.6*	20.0
PCB-1016 Peak 2	Ave	341992	443666		0.649	0.500	29.7*	20.0
PCB-1016 Peak 3	Ave	2312333	3211830		0.694	0.500	38.9*	20.0
PCB-1016 Peak 4	Ave	867105	1206780		0.696	0.500	39.2*	20.0
PCB-1260 Peak 1	Ave	1417197	1995622		0.704	0.500	40.8*	20.0
PCB-1260 Peak 2	Ave	1188359	1029818		0.433	0.500	-13.3	20.0
PCB-1260 Peak 3	Ave	2606145	3559146		0.683	0.500	36.6*	20.0
PCB-1260 Peak 4	Ave	1540719	2043898		0.663	0.500	32.7*	20.0
Tetrachloro-m-xylene	Ave	34275726	40125600		0.0351	0.0300	17.1	20.0
DCB Decachlorobiphenyl	Ave	21910557	25769400		0.0353	0.0300	17.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/4 Calibration Date: 10/21/2015 09:42
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_004.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.41	2.38	2.44
PCB-1016 Peak 2	2.57	2.54	2.60
PCB-1016 Peak 3	2.72	2.69	2.75
PCB-1016 Peak 4	2.83	2.80	2.86
PCB-1260 Peak 1	4.25	4.22	4.28
PCB-1260 Peak 2	4.54	4.51	4.57
PCB-1260 Peak 3	5.02	4.99	5.05
PCB-1260 Peak 4	5.35	5.32	5.38
Tetrachloro-m-xylene	1.69	1.66	1.72
DCB Decachlorobiphenyl	6.45	6.39	6.51

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_004.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2015 09:42:02 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:19:45 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:19:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.077	2.077	0.000	1164688	0.0300	0.0293	
2	1.689	1.689	0.000	1203768	0.0300	0.0351	
RPD = 18.06							

6 PCB-1016

1	3.020	3.020	0.000	1323467	0.5000	0.4887	
1	3.167	3.167	0.000	328353	0.5000	0.4677	
1	3.463	3.463	0.000	358818	0.5000	0.4406	
1	3.564	3.564	0.000	403557	0.5000	0.4391	
Average of Peak Amounts =							0.4590
2	2.406	2.406	0.000	758942	0.5000	0.6480	
2	2.568	2.568	0.000	221833	0.5000	0.6486	
2	2.718	2.718	0.000	1605915	0.5000	0.6945	
2	2.831	2.831	0.000	603390	0.5000	0.6959	
Average of Peak Amounts =							0.6718
RPD = 37.63							

9 PCB-1260

1	4.658	4.658	0.000	765198	0.5000	0.4482	
1	4.888	4.888	0.000	990172	0.5000	0.4734	
1	5.411	5.411	0.000	1365925	0.5000	0.4809	
1	5.660	5.660	0.000	648517	0.5000	0.4778	
Average of Peak Amounts =							0.4701
2	4.253	4.253	0.000	997811	0.5000	0.7041	
2	4.540	4.540	0.000	514909	0.5000	0.4333	
2	5.018	5.018	0.000	1779573	0.5000	0.6828	
2	5.353	5.353	0.000	1021949	0.5000	0.6633	
Average of Peak Amounts =							0.6209
RPD = 27.64							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_004.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.097	7.097	0.000	677632	0.0300	0.0262
2	6.448	6.448	0.000	773082	0.0300	0.0353

RPD = 29.39

Reagents:

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_004.D

Injection Date: 21-Oct-2015 09:42:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

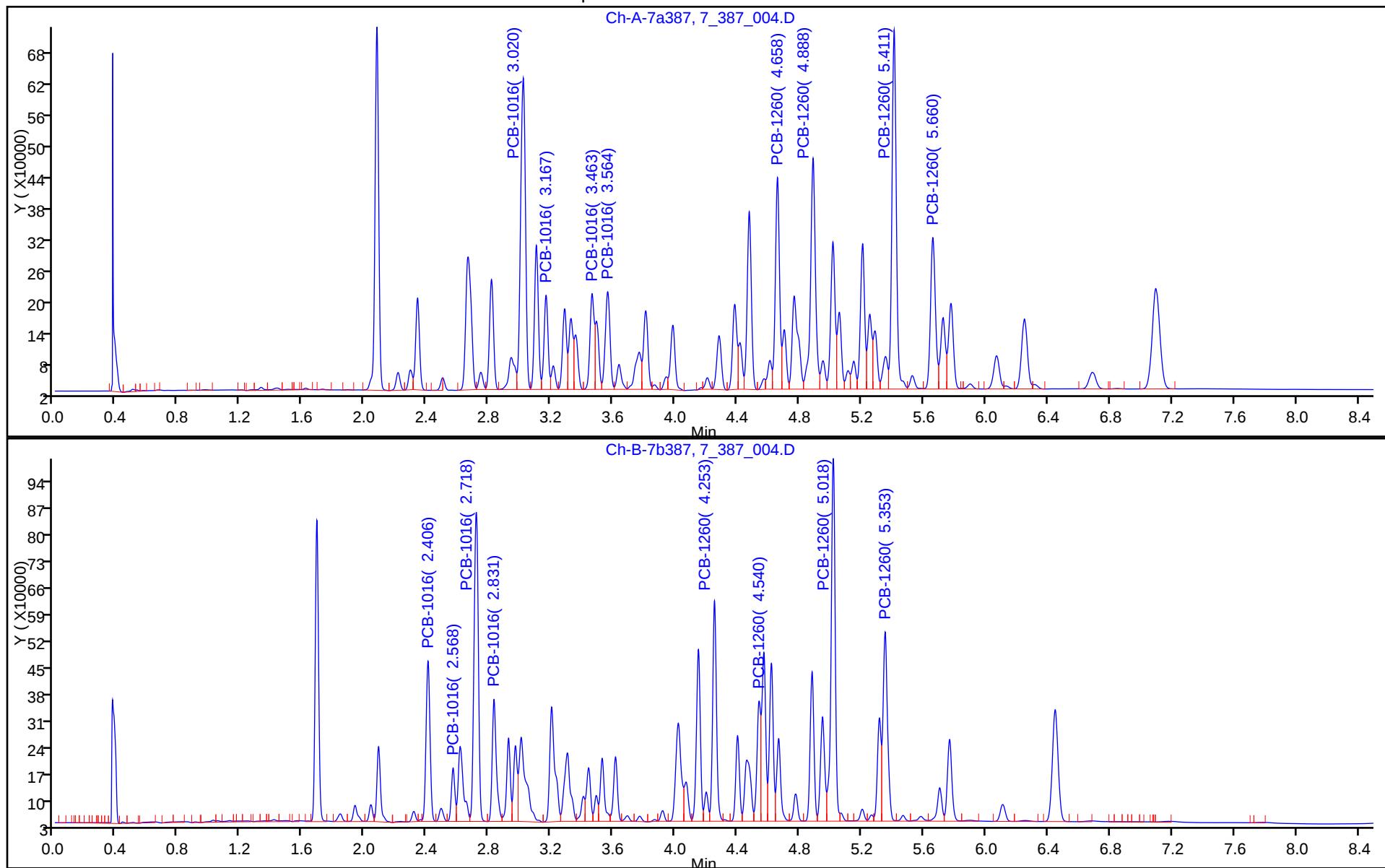
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/16 Calibration Date: 10/21/2015 12:52
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	2708151	2747072		0.507	0.500	1.4	20.0
PCB-1016 Peak 2	Ave	702119	693662		0.494	0.500	-1.2	20.0
PCB-1016 Peak 3	Ave	814385	783102		0.481	0.500	-3.8	20.0
PCB-1016 Peak 4	Ave	919006	881326		0.479	0.500	-4.1	20.0
PCB-1260 Peak 1	Ave	1707187	1641876		0.481	0.500	-3.8	20.0
PCB-1260 Peak 2	Ave	2091662	2117276		0.506	0.500	1.2	20.0
PCB-1260 Peak 3	Ave	2840418	2853716		0.502	0.500	0.5	20.0
PCB-1260 Peak 4	Ave	1357171	1303538		0.480	0.500	-4.0	20.0
Tetrachloro-m-xylene	Ave	39747237	39590767		0.0299	0.0300	-0.4	20.0
DCB Decachlorobiphenyl	Ave	25821643	23443400		0.0272	0.0300	-9.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/16 Calibration Date: 10/21/2015 12:52
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_016.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.02	2.99	3.05
PCB-1016 Peak 2	3.17	3.14	3.20
PCB-1016 Peak 3	3.46	3.43	3.49
PCB-1016 Peak 4	3.56	3.53	3.59
PCB-1260 Peak 1	4.66	4.63	4.69
PCB-1260 Peak 2	4.89	4.86	4.92
PCB-1260 Peak 3	5.41	5.38	5.44
PCB-1260 Peak 4	5.66	5.63	5.69
Tetrachloro-m-xylene	2.08	2.05	2.11
DCB Decachlorobiphenyl	7.10	7.04	7.16

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_016.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2015 12:52:39 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:19:37 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:19:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M
 1 2.077 2.077 0.000 1187723 0.0300 0.0299 M
 2 1.690 1.690 0.000 1295958 0.0300 0.0378
 RPD = 23.42

6 PCB-1016

1 3.020 3.020 0.000 1373536 0.5000 0.5072
 1 3.167 3.167 0.000 346831 0.5000 0.4940
 1 3.463 3.463 0.000 391551 0.5000 0.4808
 1 3.564 3.564 0.000 440663 0.5000 0.4795

Average of Peak Amounts = 0.4904

2 2.406 2.406 0.000 767734 0.5000 0.6555
 2 2.568 2.568 0.000 231544 0.5000 0.6770
 2 2.717 2.717 0.000 1687665 0.5000 0.7299
 2 2.832 2.832 0.000 619377 0.5000 0.7143

Average of Peak Amounts = 0.6942

RPD = 34.41

9 PCB-1260

1 4.658 4.658 0.000 820938 0.5000 0.4809
 1 4.888 4.888 0.000 1058638 0.5000 0.5061
 1 5.411 5.411 0.000 1426858 0.5000 0.5023
 1 5.662 5.662 0.000 651769 0.5000 0.4802

Average of Peak Amounts = 0.4924

2 4.254 4.254 0.000 827013 0.5000 0.5836
 2 4.542 4.542 0.000 547536 0.5000 0.4607
 2 5.018 5.018 0.000 1979219 0.5000 0.7594
 2 5.353 5.353 0.000 1111836 0.5000 0.7216

Average of Peak Amounts = 0.6313

RPD = 24.73

Data File: \\ChromNA\\Buffalo\\ChromData\\HP6890-07\\20151021-47502.b\\7_387_016.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	7.103	7.103	0.000	703302	0.0300	0.0272	
2	6.449	6.449	0.000	841301	0.0300	0.0384	

RPD = 34.01

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_016.D

Injection Date: 21-Oct-2015 12:52:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 16

Client ID:

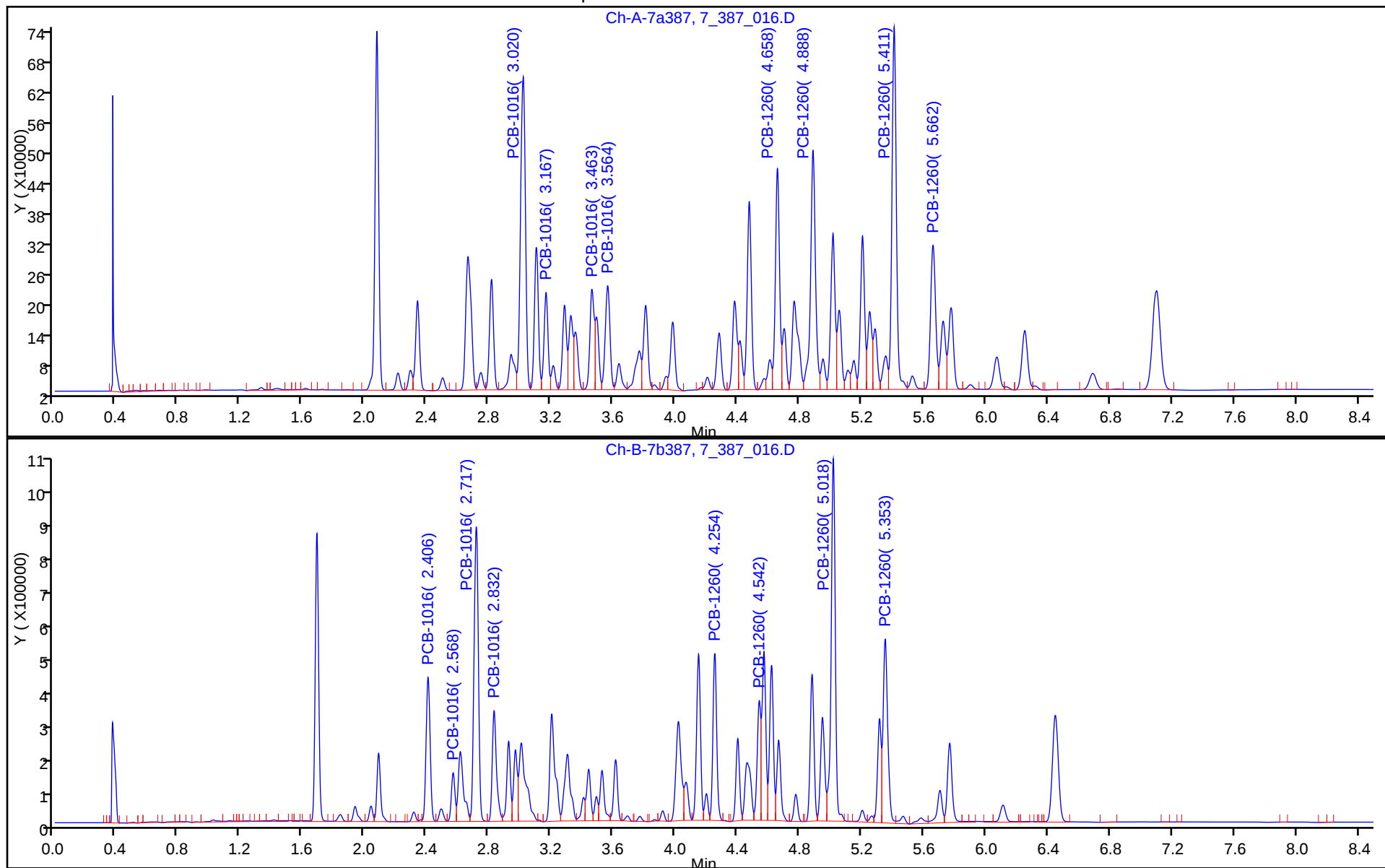
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



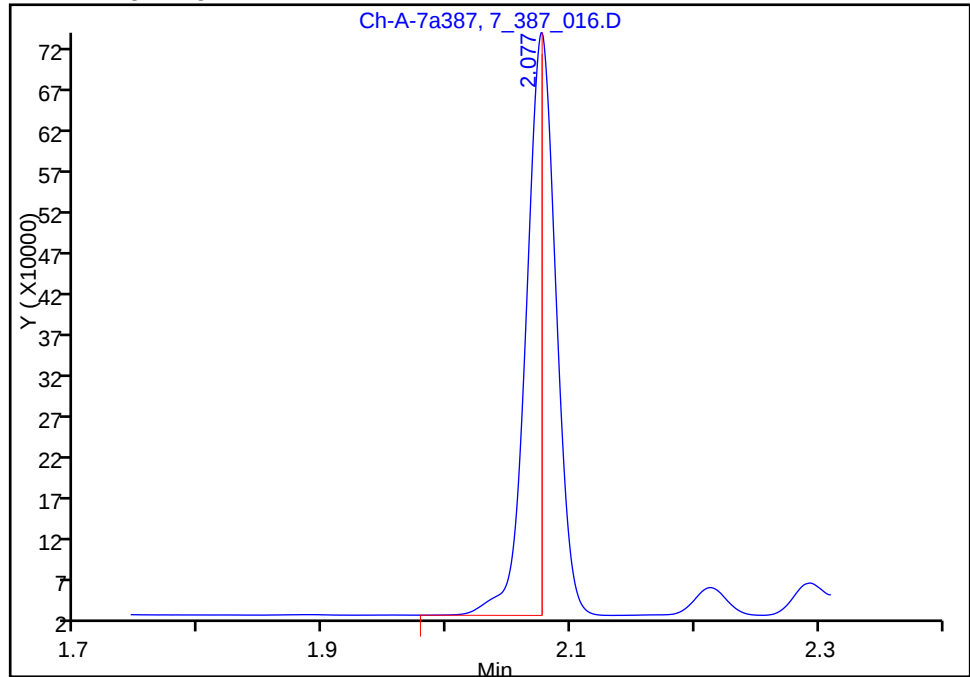
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_016.D
Injection Date: 21-Oct-2015 12:52:39 Instrument ID: HP6890-7
Lims ID: CCV
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

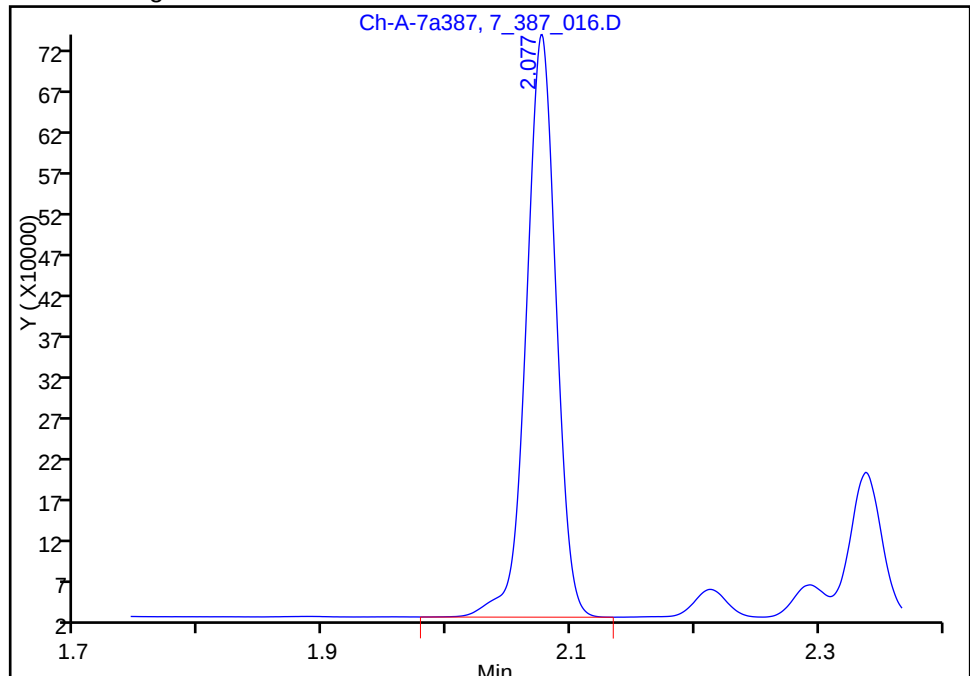
RT: 2.08
Area: 624613
Amount: 0.015715
Amount Units: ng/uL

Processing Integration Results



RT: 2.08
Area: 1187723
Amount: 0.029882
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 21-Oct-2015 13:19:37
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270055/16 Calibration Date: 10/21/2015 12:52
 Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 08/06/2015 22:36
 Lab File ID: 7_387_016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	1171234	1535468		0.655	0.500	31.1*	20.0
PCB-1016 Peak 2	Ave	341992	463088		0.677	0.500	35.4*	20.0
PCB-1016 Peak 3	Ave	2312333	3375330		0.730	0.500	46.0*	20.0
PCB-1016 Peak 4	Ave	867105	1238754		0.714	0.500	42.9*	20.0
PCB-1260 Peak 1	Ave	1417197	1654026		0.584	0.500	16.7	20.0
PCB-1260 Peak 2	Ave	1188359	1095072		0.461	0.500	-7.9	20.0
PCB-1260 Peak 3	Ave	2606145	3958438		0.759	0.500	51.9*	20.0
PCB-1260 Peak 4	Ave	1540719	2223672		0.722	0.500	44.3*	20.0
Tetrachloro-m-xylene	Ave	34275726	43198600		0.0378	0.0300	26.0*	20.0
DCB Decachlorobiphenyl	Ave	21910557	28043367		0.0384	0.0300	28.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
SDG No.: _____
Lab Sample ID: CCV 480-270055/16 Calibration Date: 10/21/2015 12:52
Instrument ID: HP6890-7 Calib Start Date: 08/06/2015 21:01
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 08/06/2015 22:36
Lab File ID: 7_387_016.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.41	2.38	2.44
PCB-1016 Peak 2	2.57	2.54	2.60
PCB-1016 Peak 3	2.72	2.69	2.75
PCB-1016 Peak 4	2.83	2.80	2.86
PCB-1260 Peak 1	4.25	4.22	4.28
PCB-1260 Peak 2	4.54	4.51	4.57
PCB-1260 Peak 3	5.02	4.99	5.05
PCB-1260 Peak 4	5.35	5.32	5.38
Tetrachloro-m-xylene	1.69	1.66	1.72
DCB Decachlorobiphenyl	6.45	6.39	6.51

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_016.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2015 12:52:39 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:19:37 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:19:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene M
 1 2.077 2.077 0.000 1187723 0.0300 0.0299 M
 2 1.690 1.690 0.000 1295958 0.0300 0.0378
 RPD = 23.42

6 PCB-1016

1	3.020	3.020	0.000	1373536	0.5000	0.5072
1	3.167	3.167	0.000	346831	0.5000	0.4940
1	3.463	3.463	0.000	391551	0.5000	0.4808
1	3.564	3.564	0.000	440663	0.5000	0.4795

Average of Peak Amounts = 0.4904

2	2.406	2.406	0.000	767734	0.5000	0.6555
2	2.568	2.568	0.000	231544	0.5000	0.6770
2	2.717	2.717	0.000	1687665	0.5000	0.7299
2	2.832	2.832	0.000	619377	0.5000	0.7143

Average of Peak Amounts = 0.6942

RPD = 34.41

9 PCB-1260

1	4.658	4.658	0.000	820938	0.5000	0.4809
1	4.888	4.888	0.000	1058638	0.5000	0.5061
1	5.411	5.411	0.000	1426858	0.5000	0.5023
1	5.662	5.662	0.000	651769	0.5000	0.4802

Average of Peak Amounts = 0.4924

2	4.254	4.254	0.000	827013	0.5000	0.5836
2	4.542	4.542	0.000	547536	0.5000	0.4607
2	5.018	5.018	0.000	1979219	0.5000	0.7594
2	5.353	5.353	0.000	1111836	0.5000	0.7216

Average of Peak Amounts = 0.6313

RPD = 24.73

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_016.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	7.103	7.103	0.000	703302	0.0300	0.0272	
2	6.449	6.449	0.000	841301	0.0300	0.0384	

RPD = 34.01

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_016.D

Injection Date: 21-Oct-2015 12:52:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 16

Client ID:

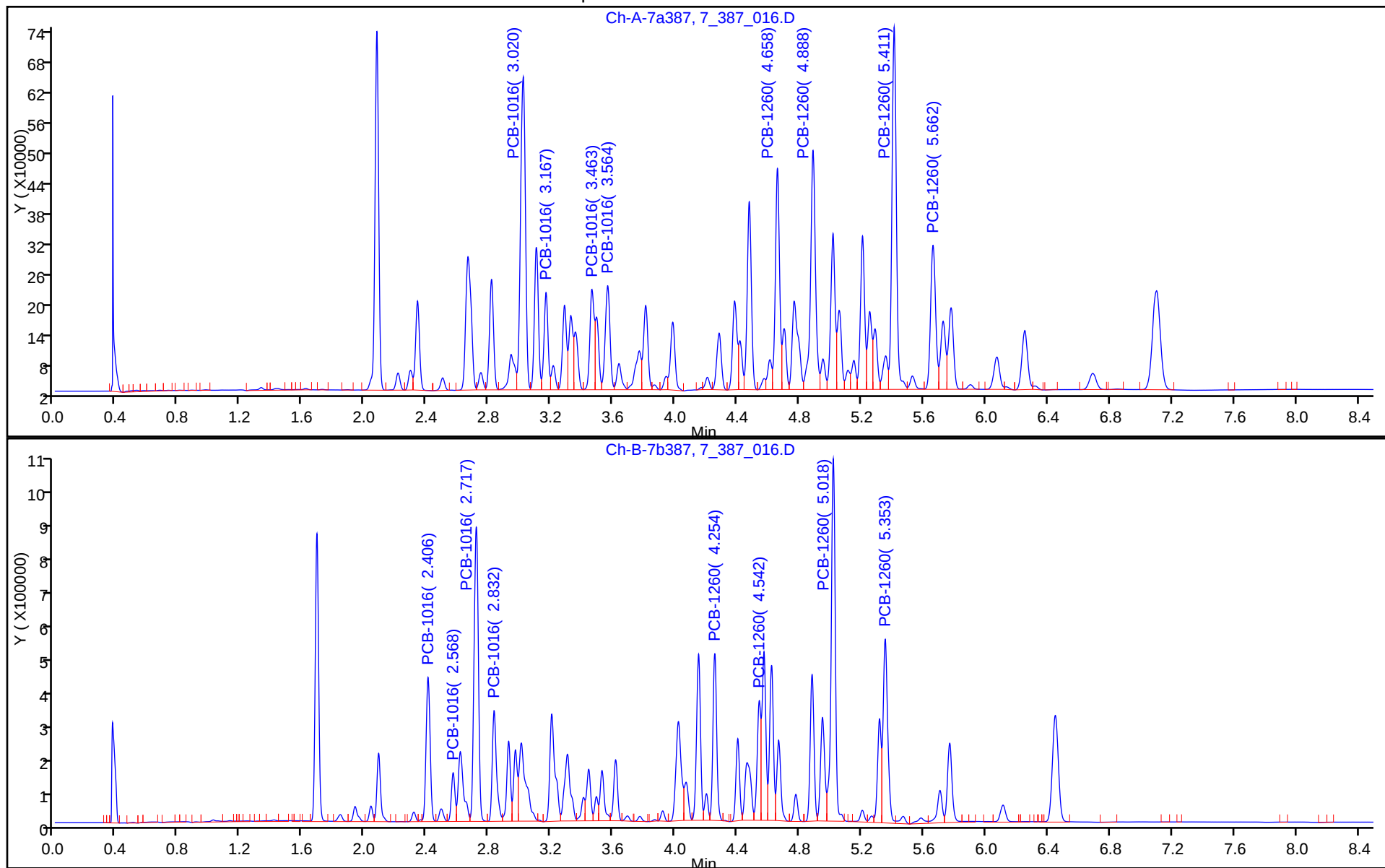
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-269887/1-A
 Matrix: Water Lab File ID: 7_387_006.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 10/20/2015 14:29
 Sample wt/vol: 250 (mL) Date Analyzed: 10/21/2015 10:13
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 270055 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		24-137
2051-24-3	DCB Decachlorobiphenyl	45		19-125

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_006.D
 Lims ID: MB 480-269887/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Oct-2015 10:13:54 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:20:52 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:20:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	2.075	2.077	-0.002	614760	0.0200	0.0155	
2	1.688	1.689	-0.001	629730	0.0200	0.0184	
						RPD = 17.17	

9 PCB-1260

1	4.658	4.658	0.000	5024		0.002943	
1	4.887	4.888	-0.001	6240		0.002983	
1	5.412	5.411	0.001	10097		0.003555	
1	5.660	5.660	0.000	2720		0.002004	
Average of Peak Amounts =						0.002871	
2	4.253	4.253	0.000	4266		0.003010	
2	0.000	4.540	-4.540	0		0	
2	5.018	5.018	0.000	6857		0.002631	
2	5.353	5.353	0.001	5740		0.003726	
Average of Peak Amounts =						0.003122	
						RPD = 8.38	

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

1	7.101	7.097	0.004	233534	0.0200	0.009044	
2	6.448	6.448	0.000	214729	0.0200	0.009800	
						RPD = 8.03	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_006.D

Injection Date: 21-Oct-2015 10:13:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-269887/1-A

Worklist Smp#: 6

Client ID:

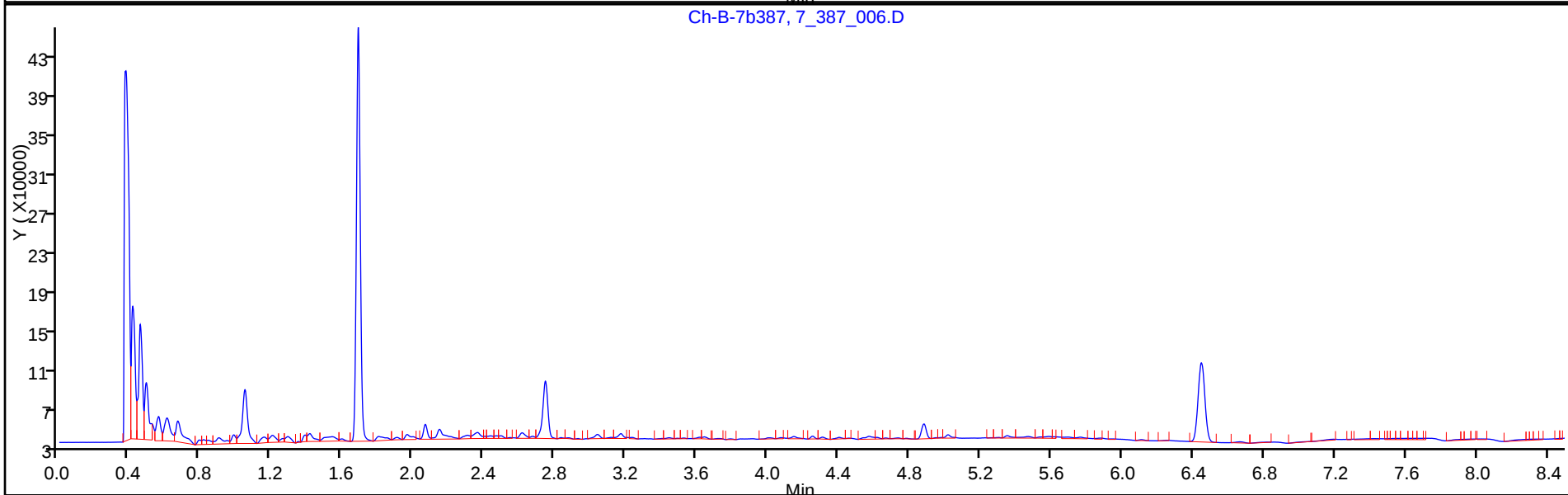
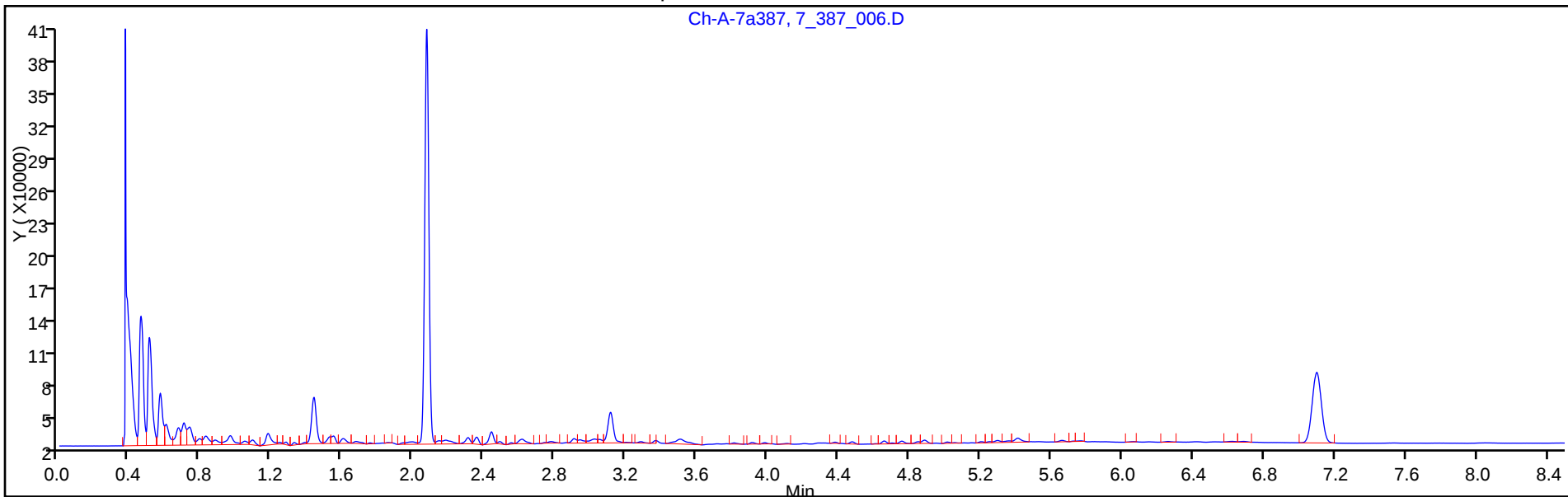
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-269887/1-A
Matrix: Water Lab File ID: 7_387_006.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 10/20/2015 14:29
Sample wt/vol: 250 (mL) Date Analyzed: 10/21/2015 10:13
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 270055 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		24-137
2051-24-3	DCB Decachlorobiphenyl	49		19-125

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_006.D
 Lims ID: MB 480-269887/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Oct-2015 10:13:54 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:20:52 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:20:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.075	2.077	-0.002	614760	0.0200	0.0155	
2	1.688	1.689	-0.001	629730	0.0200	0.0184	
						RPD = 17.17	

9 PCB-1260

1	4.658	4.658	0.000	5024		0.002943	
1	4.887	4.888	-0.001	6240		0.002983	
1	5.412	5.411	0.001	10097		0.003555	
1	5.660	5.660	0.000	2720		0.002004	
Average of Peak Amounts =						0.002871	
2	4.253	4.253	0.000	4266		0.003010	
2	0.000	4.540	-4.540	0		0	
2	5.018	5.018	0.000	6857		0.002631	
2	5.353	5.353	0.001	5740		0.003726	
Average of Peak Amounts =						0.003122	
						RPD = 8.38	

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

1	7.101	7.097	0.004	233534	0.0200	0.009044	
2	6.448	6.448	0.000	214729	0.0200	0.009800	
						RPD = 8.03	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 21-Oct-2015 13:20:53

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_006.D

Injection Date: 21-Oct-2015 10:13:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-269887/1-A

Worklist Smp#: 6

Client ID:

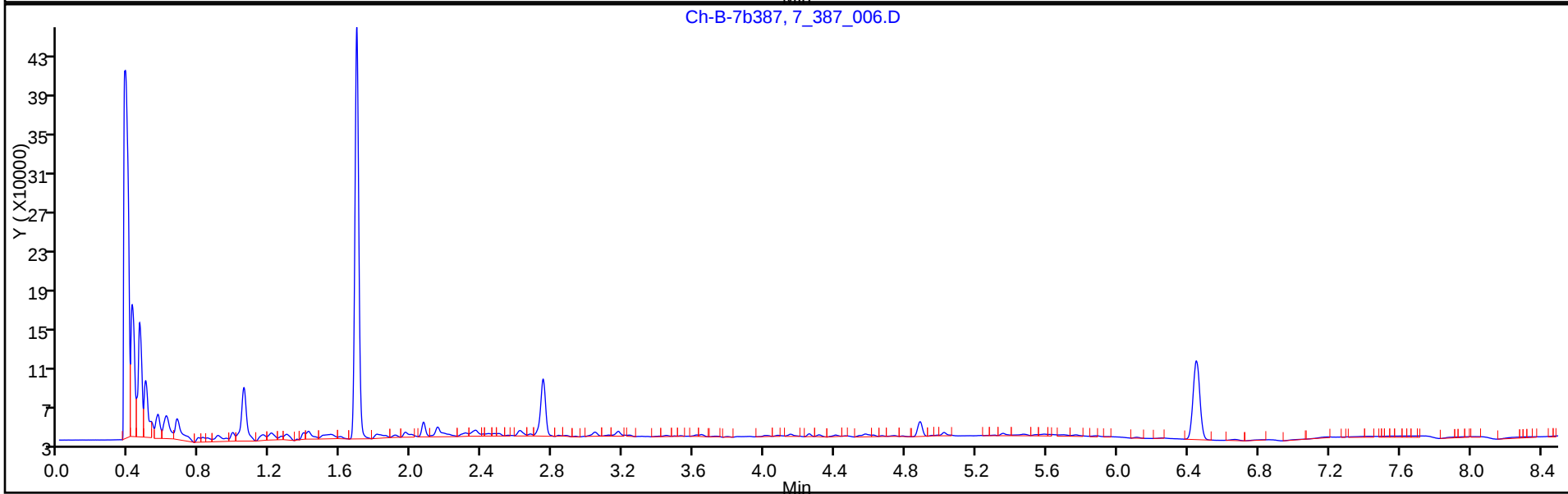
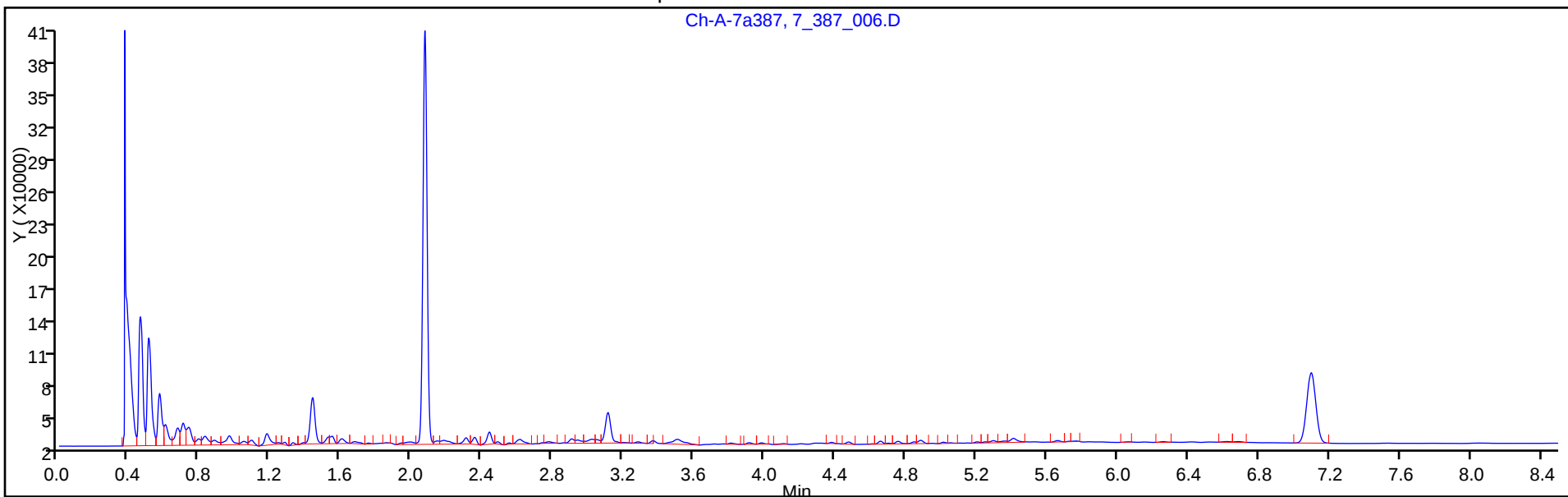
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-269887/2-A
 Matrix: Water Lab File ID: 7_387_007.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 10/20/2015 14:29
 Sample wt/vol: 250 (mL) Date Analyzed: 10/21/2015 10:29
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 270055 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.55		0.50	0.18
11096-82-5	PCB-1260	3.33		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	83		24-137
2051-24-3	DCB Decachlorobiphenyl	46		19-125

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_007.D
 Lims ID: LCS 480-269887/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Oct-2015 10:29:47 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:20:52 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:21:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.076	2.077	-0.001	658081	0.0200	0.0166	
2	1.689	1.689	0.000	649755	0.0200	0.0190	
						RPD = 13.52	

6 PCB-1016

1	3.018	3.020	-0.002	1226387	0.5000	0.4529	
1	3.167	3.167	0.000	313567	0.5000	0.4466	
1	3.464	3.463	0.001	355351	0.5000	0.4363	
1	3.564	3.564	0.000	403906	0.5000	0.4395	
Average of Peak Amounts =						0.4438	
2	2.406	2.406	0.000	690575	0.5000	0.5896	
2	2.568	2.568	0.000	195529	0.5000	0.5717	
2	2.716	2.718	-0.002	1516619	0.5000	0.6559	
2	2.832	2.831	0.001	540167	0.5000	0.6230	
Average of Peak Amounts =						0.6100	
						RPD = 31.55	

9 PCB-1260

1	4.658	4.658	0.000	736173	0.5000	0.4312	
1	4.888	4.888	0.000	1085674	0.5000	0.5190	
1	5.410	5.411	-0.001	966169	0.5000	0.3402	
1	5.662	5.660	0.002	506401	0.5000	0.3731	
Average of Peak Amounts =						0.4159	
2	4.253	4.253	0.000	952206	0.5000	0.6719	
2	4.543	4.540	0.003	473330	0.5000	0.3983	
2	5.018	5.018	0.000	1334176	0.5000	0.5119	
2	5.353	5.353	0.001	737112	0.5000	0.4784	
Average of Peak Amounts =						0.5151	
						RPD = 21.32	

\$ 12 DCB Decachlorobiphenyl

1	7.099	7.097	0.002	239394	0.0200	0.009271	
2	6.450	6.448	0.002	279084	0.0200	0.0127	
						RPD = 31.50	

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 21-Oct-2015 13:21:03

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_007.D

Injection Date: 21-Oct-2015 10:29:47

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-269887/2-A

Worklist Smp#: 7

Client ID:

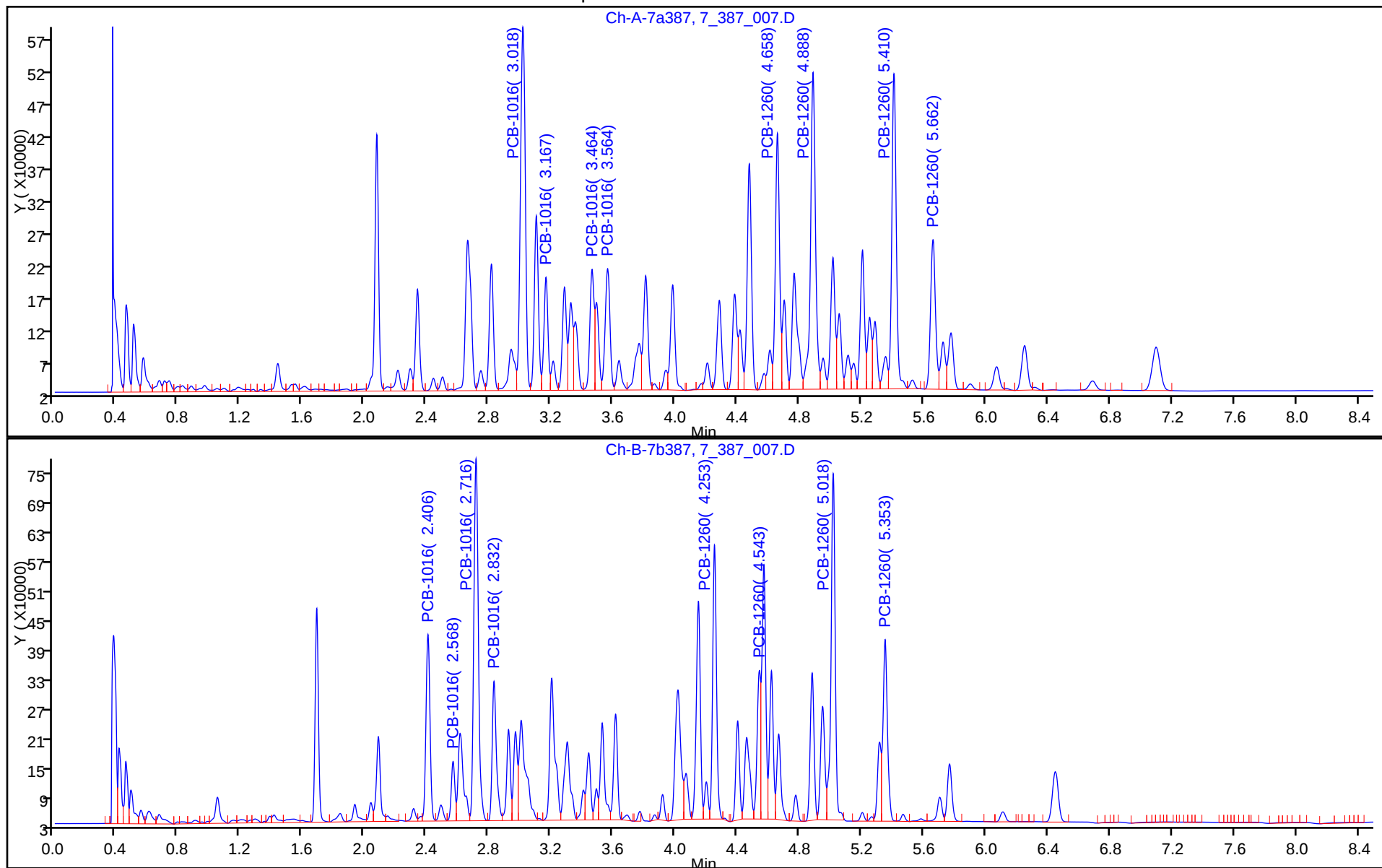
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-269887/2-A
 Matrix: Water Lab File ID: 7_387_007.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 10/20/2015 14:29
 Sample wt/vol: 250 (mL) Date Analyzed: 10/21/2015 10:29
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 270055 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	4.88		0.50	0.18
11096-82-5	PCB-1260	4.12		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		24-137
2051-24-3	DCB Decachlorobiphenyl	64		19-125

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_007.D
 Lims ID: LCS 480-269887/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Oct-2015 10:29:47 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 21-Oct-2015 13:20:52 Calib Date: 07-Aug-2015 02:50:41
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20150807-45182.b\7_379_264.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 21-Oct-2015 13:21:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	2.076	2.077	-0.001	658081	0.0200	0.0166	
2	1.689	1.689	0.000	649755	0.0200	0.0190	
						RPD = 13.52	

6 PCB-1016

1	3.018	3.020	-0.002	1226387	0.5000	0.4529	
1	3.167	3.167	0.000	313567	0.5000	0.4466	
1	3.464	3.463	0.001	355351	0.5000	0.4363	
1	3.564	3.564	0.000	403906	0.5000	0.4395	
Average of Peak Amounts =						0.4438	
2	2.406	2.406	0.000	690575	0.5000	0.5896	
2	2.568	2.568	0.000	195529	0.5000	0.5717	
2	2.716	2.718	-0.002	1516619	0.5000	0.6559	
2	2.832	2.831	0.001	540167	0.5000	0.6230	
Average of Peak Amounts =						0.6100	
						RPD = 31.55	

9 PCB-1260

1	4.658	4.658	0.000	736173	0.5000	0.4312	
1	4.888	4.888	0.000	1085674	0.5000	0.5190	
1	5.410	5.411	-0.001	966169	0.5000	0.3402	
1	5.662	5.660	0.002	506401	0.5000	0.3731	
Average of Peak Amounts =						0.4159	
2	4.253	4.253	0.000	952206	0.5000	0.6719	
2	4.543	4.540	0.003	473330	0.5000	0.3983	
2	5.018	5.018	0.000	1334176	0.5000	0.5119	
2	5.353	5.353	0.001	737112	0.5000	0.4784	
Average of Peak Amounts =						0.5151	
						RPD = 21.32	

\$ 12 DCB Decachlorobiphenyl

1	7.099	7.097	0.002	239394	0.0200	0.009271	
2	6.450	6.448	0.002	279084	0.0200	0.0127	
						RPD = 31.50	

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20151021-47502.b\7_387_007.D

Injection Date: 21-Oct-2015 10:29:47

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-269887/2-A

Worklist Smp#: 7

Client ID:

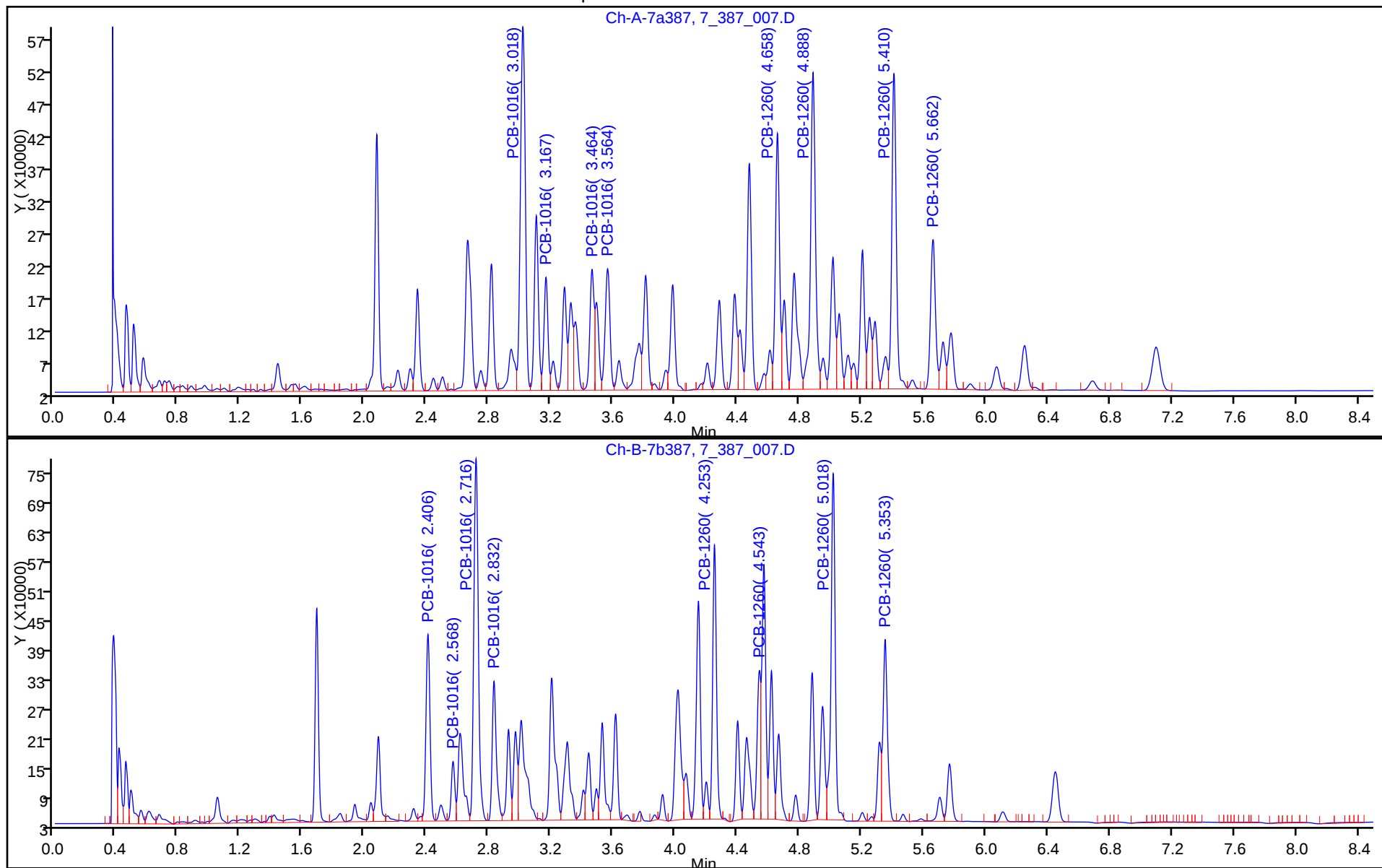
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-89387-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 08/06/2015 21:01Analysis Batch Number: 257541End Date: 08/07/2015 03:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-257541/2 IC		08/06/2015 21:01	1	7_379_242.D	ZB-5 0.53 (mm)
STD7 480-257541/2 IC		08/06/2015 21:01	1	7_379_242.D	ZB-35 0.53 (mm)
STD6 480-257541/3 IC		08/06/2015 21:17	1	7_379_243.D	ZB-5 0.53 (mm)
STD6 480-257541/3 IC		08/06/2015 21:17	1	7_379_243.D	ZB-35 0.53 (mm)
STD5 480-257541/4 IC		08/06/2015 21:33	1	7_379_244.D	ZB-5 0.53 (mm)
STD5 480-257541/4 IC		08/06/2015 21:33	1	7_379_244.D	ZB-35 0.53 (mm)
STD4 480-257541/5 IC		08/06/2015 21:48	1	7_379_245.D	ZB-5 0.53 (mm)
STD4 480-257541/5 IC		08/06/2015 21:48	1	7_379_245.D	ZB-35 0.53 (mm)
STD3 480-257541/6 IC		08/06/2015 22:05	1	7_379_246.D	ZB-5 0.53 (mm)
STD3 480-257541/6 IC		08/06/2015 22:05	1	7_379_246.D	ZB-35 0.53 (mm)
STD2 480-257541/7 IC		08/06/2015 22:20	1	7_379_247.D	ZB-5 0.53 (mm)
STD2 480-257541/7 IC		08/06/2015 22:20	1	7_379_247.D	ZB-35 0.53 (mm)
STD1 480-257541/8 IC		08/06/2015 22:36	1	7_379_248.D	ZB-5 0.53 (mm)
STD1 480-257541/8 IC		08/06/2015 22:36	1	7_379_248.D	ZB-35 0.53 (mm)
ICV 480-257541/9		08/06/2015 22:52	1		ZB-5 0.53 (mm)
ICV 480-257541/9		08/06/2015 22:52	1		ZB-35 0.53 (mm)
STD3 480-257541/10 IC		08/06/2015 23:08	1	7_379_250.D	ZB-5 0.53 (mm)
STD3 480-257541/10 IC		08/06/2015 23:08	1	7_379_250.D	ZB-35 0.53 (mm)
STD2 480-257541/11 IC		08/06/2015 23:24	1	7_379_251.D	ZB-5 0.53 (mm)
STD2 480-257541/11 IC		08/06/2015 23:24	1	7_379_251.D	ZB-35 0.53 (mm)
STD1 480-257541/12 IC		08/06/2015 23:40	1	7_379_252.D	ZB-5 0.53 (mm)
STD1 480-257541/12 IC		08/06/2015 23:40	1	7_379_252.D	ZB-35 0.53 (mm)
ICV 480-257541/13		08/06/2015 23:55	1		ZB-5 0.53 (mm)
ICV 480-257541/13		08/06/2015 23:55	1		ZB-35 0.53 (mm)
STD3 480-257541/14 IC		08/07/2015 00:11	1	7_379_254.D	ZB-5 0.53 (mm)
STD3 480-257541/14 IC		08/07/2015 00:11	1	7_379_254.D	ZB-35 0.53 (mm)
STD2 480-257541/15 IC		08/07/2015 00:27	1	7_379_255.D	ZB-5 0.53 (mm)
STD2 480-257541/15 IC		08/07/2015 00:27	1	7_379_255.D	ZB-35 0.53 (mm)
STD1 480-257541/16 IC		08/07/2015 00:43	1	7_379_256.D	ZB-5 0.53 (mm)
STD1 480-257541/16 IC		08/07/2015 00:43	1	7_379_256.D	ZB-35 0.53 (mm)
ICV 480-257541/17		08/07/2015 00:59	1		ZB-5 0.53 (mm)
ICV 480-257541/17		08/07/2015 00:59	1		ZB-35 0.53 (mm)
STD3 480-257541/18 IC		08/07/2015 01:15	1	7_379_258.D	ZB-5 0.53 (mm)
STD3 480-257541/18 IC		08/07/2015 01:15	1	7_379_258.D	ZB-35 0.53 (mm)
STD2 480-257541/19 IC		08/07/2015 01:31	1	7_379_259.D	ZB-5 0.53 (mm)
STD2 480-257541/19 IC		08/07/2015 01:31	1	7_379_259.D	ZB-35 0.53 (mm)
STD1 480-257541/20 IC		08/07/2015 01:47	1	7_379_260.D	ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1
SDG No.: _____
Instrument ID: HP6890-7 Start Date: 08/06/2015 21:01
Analysis Batch Number: 257541 End Date: 08/07/2015 03:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-257541/20 IC		08/07/2015 01:47	1	7_379_260.D	ZB-35 0.53 (mm)
ICV 480-257541/21		08/07/2015 02:03	1		ZB-5 0.53 (mm)
ICV 480-257541/21		08/07/2015 02:03	1		ZB-35 0.53 (mm)
STD3 480-257541/22 IC		08/07/2015 02:18	1	7_379_262.D	ZB-5 0.53 (mm)
STD3 480-257541/22 IC		08/07/2015 02:18	1	7_379_262.D	ZB-35 0.53 (mm)
STD2 480-257541/23 IC		08/07/2015 02:34	1	7_379_263.D	ZB-5 0.53 (mm)
STD2 480-257541/23 IC		08/07/2015 02:34	1	7_379_263.D	ZB-35 0.53 (mm)
STD1 480-257541/24 IC		08/07/2015 02:50	1	7_379_264.D	ZB-5 0.53 (mm)
STD1 480-257541/24 IC		08/07/2015 02:50	1	7_379_264.D	ZB-35 0.53 (mm)
ICV 480-257541/25		08/07/2015 03:06	1		ZB-5 0.53 (mm)
ICV 480-257541/25		08/07/2015 03:06	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-89387-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 10/21/2015 09:42Analysis Batch Number: 270055End Date: 10/21/2015 20:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-270055/4		10/21/2015 09:42	1	7_387_004.D	ZB-5 0.53 (mm)
CCV 480-270055/4		10/21/2015 09:42	1	7_387_004.D	ZB-35 0.53 (mm)
MB 480-269887/1-A		10/21/2015 10:13	1	7_387_006.D	ZB-5 0.53 (mm)
MB 480-269887/1-A		10/21/2015 10:13	1	7_387_006.D	ZB-35 0.53 (mm)
LCS 480-269887/2-A		10/21/2015 10:29	1	7_387_007.D	ZB-5 0.53 (mm)
LCS 480-269887/2-A		10/21/2015 10:29	1	7_387_007.D	ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 10:45	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 10:45	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 11:01	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 11:01	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 11:17	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 11:17	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 11:33	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 11:33	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 11:49	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 11:49	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 12:05	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 12:05	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 12:20	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 12:20	1		ZB-35 0.53 (mm)
480-89387-1	20151019 WASTEWATER	10/21/2015 12:36	1	7_387_015.D	ZB-5 0.53 (mm)
480-89387-1	20151019 WASTEWATER	10/21/2015 12:36	1	7_387_015.D	ZB-35 0.53 (mm)
CCV 480-270055/16		10/21/2015 12:52	1	7_387_016.D	ZB-5 0.53 (mm)
CCV 480-270055/16		10/21/2015 12:52	1	7_387_016.D	ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 13:24	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 13:24	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 13:40	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 13:40	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 13:56	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 13:56	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 14:12	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 14:12	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 14:27	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 14:27	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 14:43	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 14:43	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 14:59	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 14:59	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 15:15	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 15:15	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 15:31	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 15:31	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 15:47	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 15:47	1		ZB-35 0.53 (mm)
CCV 480-270055/28		10/21/2015 16:03	1		ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-89387-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 10/21/2015 09:42Analysis Batch Number: 270055End Date: 10/21/2015 20:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-270055/28		10/21/2015 16:03	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 16:35	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 16:35	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 16:50	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 16:50	1		ZB-35 0.53 (mm)
CCV 480-270055/32		10/21/2015 17:06	1		ZB-5 0.53 (mm)
CCV 480-270055/32		10/21/2015 17:06	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 17:38	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 17:38	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 17:54	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 17:54	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 18:10	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 18:10	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 18:26	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 18:26	1		ZB-35 0.53 (mm)
CCV 480-270055/38		10/21/2015 18:42	1		ZB-5 0.53 (mm)
CCV 480-270055/38		10/21/2015 18:42	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 19:14	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 19:14	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 19:30	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 19:30	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 19:45	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 19:45	1		ZB-35 0.53 (mm)
ZZZZZ		10/21/2015 20:01	1		ZB-5 0.53 (mm)
ZZZZZ		10/21/2015 20:01	1		ZB-35 0.53 (mm)
CCV 480-270055/44		10/21/2015 20:17	1		ZB-5 0.53 (mm)
CCV 480-270055/44		10/21/2015 20:17	1		ZB-35 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89387-1

SDG No.: _____

Batch Number: 269887 Batch Start Date: 10/20/15 14:29 Batch Analyst: Hartigan, Connor PBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount
MB 480-269887/1		3510C, 8082A		7 SU				250 mL	2 mL
LCS 480-269887/2		3510C, 8082A		7 SU				250 mL	2 mL
480-89387-B-1	20151019 WASTEWATER	3510C, 8082A	T	7 SU	445.0 g	177.2 g	Yes	267.8 mL	2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_608PCBSpike 00010	O_PCBLIsurr 00030	AnalysisComment			
MB 480-269887/1		3510C, 8082A			1 mL				
LCS 480-269887/2		3510C, 8082A		1 mL	1 mL				
480-89387-B-1	20151019 WASTEWATER	3510C, 8082A	T		1 mL	Density = 1.00 g/mL			

Batch Notes	
Acid used for Clean Up Reagent	Sulfuric 2981522; CH 10/20/15
Batch Comment	L10702D; Tip Lot # E160816J
Person's name who did the concentration	CH
Exchange Solvent Lot #	2987034
Exchange Solvent Name	Hexane
Na2SO4 Lot Number	2858180
Prep Solvent Lot #	3021333
Prep Solvent Name	Methylene Chloride
Prep Solvent Volume Used	60 mL
Person's name who did the prep	CH
Person's name who witnessed reagent drop	CH
Sufficient volume for MS/MSD?	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-89387-1

Login Number: 89387

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-89678-1

Job Description: GE Tonawanda

For:

AECOM Technical Services Inc.
40 British American Boulevard
Latham, NY 12110

Attention: Karen Peppin



Approved for release.
Rebecca M Jones
Project Management Assistant I
10/26/2015 1:52 PM

Designee for
Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
10/26/2015

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

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Job Narrative
480-89678-1

Receipt

The sample was received on 10/22/2015 4:05 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC Semi VOA

Method(s) 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-270529 and analytical batch 480-270588 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: TANK 2-SED (480-89678-1). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3550C: The following samples: TANK 2-SED (480-89678-1), (480-89678-A-1 MS) and (480-89678-A-1 MSD) was decanted prior to preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-89678-1	TANK 2-SED	Solid	10/22/2015 0845	10/22/2015 1605

EXECUTIVE SUMMARY - Detections

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-89678-1	TANK 2-SED					
PCB-1254		17		2.5	mg/Kg	8082A
PCB-1260		5.4	F1	2.5	mg/Kg	8082A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture

METHOD SUMMARY

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082A	
Ultrasonic Extraction	TAL BUF		SW846 3550C
Percent Moisture	TAL BUF	EPA Moisture	

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Method	Analyst	Analyst ID
SW846 8082A	Owen, Joshua M	JMO
EPA Moisture	Kolb, Chris M	CMK

Analytical Data

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Client Sample ID: TANK 2-SED

Lab Sample ID: 480-89678-1

Date Sampled: 10/22/2015 0845

Client Matrix: Solid

% Moisture: 13.2

Date Received: 10/22/2015 1605

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 480-270588

Instrument ID: HP5890-12

Prep Method: 3550C

Prep Batch: 480-270529

Initial Weight/Volume: +2.32 g

Dilution: 10

Final Weight/Volume: 10 mL

Analysis Date: 10/23/2015 0901

Injection Volume: 1 uL

Prep Date: 10/22/2015 1808

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.49	2.5
PCB-1221		ND		0.49	2.5
PCB-1232		ND		0.49	2.5
PCB-1242		ND		0.49	2.5
PCB-1248		ND		0.49	2.5
PCB-1254		17		1.2	2.5
PCB-1260		5.4	F1	1.2	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	110		60 - 154
DCB Decachlorobiphenyl	99		65 - 174

Analytical Data

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Client Sample ID: TANK 2-SED

Lab Sample ID: 480-89678-1

Date Sampled: 10/22/2015 0845

Client Matrix: Solid

% Moisture: 13.2

Date Received: 10/22/2015 1605

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 480-270588

Instrument ID: HP5890-12

Prep Method: 3550C

Prep Batch: 480-270529

Initial Weight/Volume: +2.32 g

Dilution: 10

Final Weight/Volume: 10 mL

Analysis Date: 10/23/2015 0901

Injection Volume: 1 uL

Prep Date: 10/22/2015 1808

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		60 - 154
DCB Decachlorobiphenyl	91		65 - 174

Analytical Data

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

General Chemistry

Client Sample ID: TANK 2-SED

Lab Sample ID: 480-89678-1

Client Matrix: Solid

Date Sampled: 10/22/2015 0845

Date Received: 10/22/2015 1605

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-270568	Analysis Date: 10/22/2015 2307					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-270568	Analysis Date: 10/22/2015 2307					DryWt Corrected: N

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-89678-1	TANK 2-SED	87	110	91	99
MB 480-270529/1-A		94	92	87	97
LCS 480-270529/2-A		124	105	99	113
480-89678-1 MS	TANK 2-SED MS	116	110	115	117
480-89678-1 MSD	TANK 2-SED MSD	108	110	108	117

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	60-154
DCB = DCB Decachlorobiphenyl	65-174

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Method Blank - Batch: 480-270529

Method: 8082A
Preparation: 3550C

Lab Sample ID:	MB 480-270529/1-A	Analysis Batch:	480-270588	Instrument ID:	HP5890-12
Client Matrix:	Solid	Prep Batch:	480-270529	Lab File ID:	12_347_266.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.10 g
Analysis Date:	10/23/2015 0802	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/22/2015 1808			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		0.047	0.24
PCB-1221	ND		0.047	0.24
PCB-1232	ND		0.047	0.24
PCB-1242	ND		0.047	0.24
PCB-1248	ND		0.047	0.24
PCB-1254	ND		0.11	0.24
PCB-1260	ND		0.11	0.24

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	92	60 - 154
DCB Decachlorobiphenyl	97	65 - 174

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	94	60 - 154
DCB Decachlorobiphenyl	87	65 - 174

Lab Control Sample - Batch: 480-270529

Method: 8082A
Preparation: 3550C

Lab Sample ID:	LCS 480-270529/2-A	Analysis Batch:	480-270588	Instrument ID:	HP5890-12
Client Matrix:	Solid	Prep Batch:	480-270529	Lab File ID:	12_347_267.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.40 g
Analysis Date:	10/23/2015 0817	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/22/2015 1808			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	2.08	2.45	118	51 - 185	
PCB-1260	2.08	2.47	119	61 - 184	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	105	60 - 154
DCB Decachlorobiphenyl	113	65 - 174

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	124	60 - 154
DCB Decachlorobiphenyl	99	65 - 174

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-270529

Method: 8082A
Preparation: 3550C

MS Lab Sample ID: 480-89678-1
Client Matrix: Solid
Dilution: 10
Analysis Date: 10/23/2015 0832
Prep Date: 10/22/2015 1808
Leach Date: N/A

Analysis Batch: 480-270588
Prep Batch: 480-270529
Leach Batch: N/A

Instrument ID: HP5890-12
Lab File ID: 12_347_268.D
Initial Weight/Volume: +2.40 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 480-89678-1
Client Matrix: Solid
Dilution: 10
Analysis Date: 10/23/2015 0846
Prep Date: 10/22/2015 1808
Leach Date: N/A

Analysis Batch: 480-270588
Prep Batch: 480-270529
Leach Batch: N/A

Instrument ID: HP5890-12
Lab File ID: 12_347_269.D
Initial Weight/Volume: +2.35 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
PCB-1016	150	114	50 - 177	25	50		
PCB-1260	535	300	33 - 200	35	50	F1	F1
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Tetrachloro-m-xylene	110		110	60 - 154			
DCB Decachlorobiphenyl	117		117	65 - 174			
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Tetrachloro-m-xylene	116		108	60 - 154			
DCB Decachlorobiphenyl	115		108	65 - 174			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-270529

Method: 8082A
Preparation: 3550C

MS Lab Sample ID: 480-89678-1
Client Matrix: Solid
Dilution: 10
Analysis Date: 10/23/2015 0832
Prep Date: 10/22/2015 1808
Leach Date: N/A

Units: mg/Kg

MSD Lab Sample ID: 480-89678-1
Client Matrix: Solid
Dilution: 10
Analysis Date: 10/23/2015 0846
Prep Date: 10/22/2015 1808
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
PCB-1016	ND	2.40	2.45	3.60	2.79
PCB-1260	5.4	2.40	2.45	18.2 F1	12.7 F1

DATA REPORTING QUALIFIERS

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Lab Section	Qualifier	Description
GC Semi VOA	F1	MS and/or MSD Recovery is outside acceptance limits.

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-270529					
LCS 480-270529/2-A	Lab Control Sample	T	Solid	3550C	
MB 480-270529/1-A	Method Blank	T	Solid	3550C	
480-89678-1	TANK 2-SED	T	Solid	3550C	
480-89678-1MS	Matrix Spike	T	Solid	3550C	
480-89678-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:480-270588					
LCS 480-270529/2-A	Lab Control Sample	T	Solid	8082A	480-270529
MB 480-270529/1-A	Method Blank	T	Solid	8082A	480-270529
480-89678-1	TANK 2-SED	T	Solid	8082A	480-270529
480-89678-1MS	Matrix Spike	T	Solid	8082A	480-270529
480-89678-1MSD	Matrix Spike Duplicate	T	Solid	8082A	480-270529

Report Basis

T = Total

General Chemistry

Analysis Batch:480-270568

480-89678-1	TANK 2-SED	T	Solid	Moisture
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Report Basis

T = Total

Quality Control Results

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Laboratory Chronicle

Lab ID: 480-89678-1

Client ID: TANK 2-SED

Sample Date/Time: 10/22/2015 08:45 Received Date/Time: 10/22/2015 16:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-89678-A-1-C		480-270588	480-270529	10/22/2015 18:08	10	TAL BUF	CAM
A:8082A	480-89678-A-1-C		480-270588	480-270529	10/23/2015 09:01	10	TAL BUF	JMO
A:Moisture	480-89678-A-1		480-270568		10/22/2015 23:07	1	TAL BUF	CMK

Lab ID: 480-89678-1 MS

Client ID: TANK 2-SED

Sample Date/Time: 10/22/2015 08:45 Received Date/Time: 10/22/2015 16:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-89678-A-1-A MS		480-270588	480-270529	10/22/2015 18:08	10	TAL BUF	CAM
A:8082A	480-89678-A-1-A MS		480-270588	480-270529	10/23/2015 08:32	10	TAL BUF	JMO

Lab ID: 480-89678-1 MSD

Client ID: TANK 2-SED

Sample Date/Time: 10/22/2015 08:45 Received Date/Time: 10/22/2015 16:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-89678-A-1-B MSD		480-270588	480-270529	10/22/2015 18:08	10	TAL BUF	CAM
A:8082A	480-89678-A-1-B MSD		480-270588	480-270529	10/23/2015 08:46	10	TAL BUF	JMO

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	MB 480-270529/1-A		480-270588	480-270529	10/22/2015 18:08	1	TAL BUF	CAM
A:8082A	MB 480-270529/1-A		480-270588	480-270529	10/23/2015 08:02	1	TAL BUF	JMO

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	LCS 480-270529/2-A		480-270588	480-270529	10/22/2015 18:08	1	TAL BUF	CAM
A:8082A	LCS 480-270529/2-A		480-270588	480-270529	10/23/2015 08:17	1	TAL BUF	JMO

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8082A

Polychlorinated Biphenyls (PCBs)
(GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.25 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
TANK 2-SED	480-89678-1	87	110	91	99
	MB 480-270529/1-A	94	92	87	97
	LCS 480-270529/2-A	124	105	99	113
TANK 2-SED MS	480-89678-1 MS	116	110	115	117
TANK 2-SED MSD	480-89678-1 MSD	108	110	108	117

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC LIMITS
60-154
65-174

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 12_347_267.D

Lab ID: LCS 480-270529/2-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	2.08	2.45	118	51-185	
PCB-1260	2.08	2.47	119	61-184	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: 12_347_268.D
Lab ID: 480-89678-1 MS Client ID: TANK 2-SED MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.40	ND	3.60	150	50-177	
PCB-1260	2.40	5.4	18.2	535	33-200	F1

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 12_347_269.D
 Lab ID: 480-89678-1 MSD Client ID: TANK 2-SED MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	2.45	2.79	114	25	50	50-177	
PCB-1260	2.45	12.7	300	35	50	33-200	F1

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: MB 480-270529/1-A
 Matrix: Solid Date Extracted: 10/22/2015 18:08
 Lab File ID: (1) 12_347_266.D Lab File ID: (2) 12_347_266.D
 Date Analyzed: (1) 10/23/2015 08:02 Date Analyzed: (2) 10/23/2015 08:02
 Instrument ID: (1) HP5890-12 Instrument ID: (2) HP5890-12
 GC Column: (1) ZB-5 ID: 0.25 (mm) GC Column: (2) ZB-35 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-270529/2-A	10/23/2015 08:17	10/23/2015 08:17
TANK 2-SED MS	480-89678-1 MS	10/23/2015 08:32	10/23/2015 08:32
TANK 2-SED MSD	480-89678-1 MSD	10/23/2015 08:46	10/23/2015 08:46
TANK 2-SED	480-89678-1	10/23/2015 09:01	10/23/2015 09:01

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Client Sample ID: TANK 2-SED Lab Sample ID: 480-89678-1
 Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12
 Date Analyzed (1): 10/23/2015 09:01 Date Analyzed (2): 10/23/2015 09:01
 GC Column (1): ZB-5 ID: 0.25 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	3.32	3.29	3.35	15.7	16	5.4
		2	3.72	3.67	3.73	14.2		
		3	3.79	3.75	3.81	15.8		
		4	3.99	3.95	4.01	18.0		
	2	1	3.11	3.07	3.13	14.4	17	
		2	3.49	3.44	3.50	15.1		
		3	3.62	3.57	3.63	18.0		
		4	4.03	3.99	4.05	19.7		
PCB-1260	1	1	4.17	4.13	4.19	7.38	5.1	5.4
		3	4.51	4.48	4.54	3.64		
		4	4.89	4.86	4.92	4.27		
	2	2	4.33	4.30	4.36	7.46	5.4	
		3	4.47	4.44	4.50	4.63		
		4	4.79	4.76	4.82	4.05		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Client Sample ID: TANK 2-SED MS Lab Sample ID: 480-89678-1 MS
 Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12
 Date Analyzed (1): 10/23/2015 08:32 Date Analyzed (2): 10/23/2015 08:32
 GC Column (1): ZB-5 ID: 0.25 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.22	2.18	2.24	3.70	3.95	9.2
		2	2.35	2.32	2.38	3.59		
		3	2.55	2.52	2.58	3.87		
		4	2.64	2.60	2.66	4.62		
	2	1	1.94	1.91	1.97	3.41	3.60	
		2	2.23	2.20	2.26	3.31		
		3	2.36	2.31	2.37	4.07		
PCB-1254	1	1	3.32	3.29	3.35	67.6	67.6	15.6
		2	3.72	3.67	3.73	67.9		
		3	3.79	3.75	3.81	68.1		
		4	3.99	3.95	4.01	67.0		
	2	1	3.11	3.07	3.13	71.5	79.1	
		2	3.48	3.44	3.50	79.3		
		3	3.62	3.57	3.63	79.6		
		4	4.03	3.99	4.05	86.1		
PCB-1260	1	1	4.18	4.13	4.19	21.5	13.8	27.5
		3	4.51	4.48	4.54	8.86		
		4	4.89	4.86	4.92	11.1		
	2	2	4.33	4.30	4.36	29.5	18.2	
		3	4.47	4.44	4.50	13.7		
		4	4.79	4.76	4.82	11.5		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Client Sample ID: TANK 2-SED MSD Lab Sample ID: 480-89678-1 MSD
 Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12
 Date Analyzed (1): 10/23/2015 08:46 Date Analyzed (2): 10/23/2015 08:46
 GC Column (1): ZB-5 ID: 0.25 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.22	2.18	2.24	3.05	3.01	7.5
		2	2.36	2.32	2.38	2.78		
		3	2.55	2.52	2.58	3.07		
		4	2.64	2.60	2.66	3.14		
	2	1	1.95	1.91	1.97	2.86	2.79	
		2	2.23	2.20	2.26	2.65		
		3	2.35	2.31	2.37	2.86		
PCB-1254	1	1	3.32	3.29	3.35	40.0	41.1	10.7
		2	3.72	3.67	3.73	39.2		
		3	3.80	3.75	3.81	39.3		
		4	3.99	3.95	4.01	46.1		
	2	1	3.11	3.07	3.13	34.2	45.8	
		2	3.49	3.44	3.50	43.5		
		3	3.62	3.57	3.63	51.7		
		4	4.03	3.99	4.05	53.8		
PCB-1260	1	1	4.18	4.13	4.19	19.4	11.2	12.6
		3	4.51	4.48	4.54	6.37		
		4	4.89	4.86	4.92	7.87		
	2	2	4.33	4.30	4.36	19.9	12.7	
		3	4.47	4.44	4.50	10.1		
		4	4.79	4.76	4.82	8.20		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-270529/2-A
 Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12
 Date Analyzed (1): 10/23/2015 08:17 Date Analyzed (2): 10/23/2015 08:17
 GC Column (1): ZB-5 ID: 0.25 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.21	2.18	2.24	2.24	2.28	7.3
		2	2.35	2.32	2.38	2.43		
		3	2.54	2.52	2.58	2.22		
		4	2.63	2.60	2.66	2.23		
	2	1	1.94	1.91	1.97	2.41	2.45	
		2	2.23	2.20	2.26	2.47		
		3	2.34	2.31	2.37	2.38		
		4	2.70	2.68	2.74	2.54		
PCB-1260	1	1	4.16	4.13	4.19	2.56	2.40	2.9
		2	4.38	4.35	4.41	2.82		
		3	4.51	4.48	4.54	2.18		
		4	4.89	4.86	4.92	2.05		
	2	1	4.03	4.00	4.06	3.06	2.47	
		2	4.33	4.30	4.36	2.22		
		3	4.47	4.44	4.50	2.35		
		4	4.78	4.76	4.82	2.26		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Client Sample ID: TANK 2-SED Lab Sample ID: 480-89678-1
Matrix: Solid Lab File ID: 12_347_270.D
Analysis Method: 8082A Date Collected: 10/22/2015 08:45
Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
Sample wt/vol: +2.32(g) Date Analyzed: 10/23/2015 09:01
Con. Extract Vol.: 10(mL) Dilution Factor: 10
Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)
% Moisture: 13.2 GPC Cleanup: (Y/N) N
Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	87		60-154
2051-24-3	DCB Decachlorobiphenyl	91		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D
 Lims ID: 480-89678-A-1-C Lab Sample ID: 480-89678-1
 Client ID: TANK 2-SED
 Sample Type: Client
 Inject. Date: 23-Oct-2015 09:01:40 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:55:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.654	1.652	0.002	4872	0.001737	
2	1.280	1.280	0.000	3306	0.002199	
RPD = 23.52						

6 PCB-1016

M

1	2.205	2.213	-0.008	380	0.002662	M
1	2.345	2.352	-0.007	360	0.004330	M
1	2.547	2.548	-0.001	1417	0.005936	M
1	2.637	2.631	0.006	712	0.006887	
Average of Peak Amounts =						0.004954
2	1.939	1.940	-0.001	695	0.005818	M
2	2.227	2.230	-0.003	1068	0.007108	M
2	2.361	2.343	0.018	552	0.007903	M
2	0.000	2.705	-2.705	0	0	
Average of Peak Amounts =						0.006943

RPD = 33.45

LOD = 0.0100

8 PCB-1254

M

1	3.321	3.315	0.006	67681	0.3162	
1	3.716	3.701	0.015	46662	0.2851	
1	3.791	3.779	0.012	67072	0.3176	
1	3.986	3.975	0.011	79534	0.3620	
Average of Peak Amounts =						0.3202
2	3.107	3.099	0.008	38777	0.2901	
2	3.485	3.470	0.015	58695	0.3034	
2	3.622	3.604	0.018	67457	0.3618	
2	4.032	4.017	0.015	56816	0.3968	M
Average of Peak Amounts =						0.3380

RPD = 5.41

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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9 PCB-1260

1	4.170	4.164	0.006	38224	0.1487	M
1	0.000	4.379	-4.379	0	0	
1	4.510	4.511	-0.001	16300	0.0734	
1	4.893	4.892	0.001	25924	0.0860	

Average of Peak Amounts = 0.1027

2	0.000	4.030	-4.030	0	0	
2	4.333	4.333	0.000	13938	0.1502	
2	4.471	4.470	0.001	19953	0.0932	
2	4.787	4.786	0.001	14949	0.0816	

Average of Peak Amounts = 0.1083

RPD = 5.36

\$ 12 DCB Decachlorobiphenyl

1	6.210	6.207	0.003	6317	0.001820	
2	5.663	5.661	0.002	5206	0.001970	

RPD = 7.94

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:55:53

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Injection Date: 23-Oct-2015 09:01:40

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: 480-89678-A-1-C

Lab Sample ID: 480-89678-1

Worklist Smp#: 10

Client ID: TANK 2-SED

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

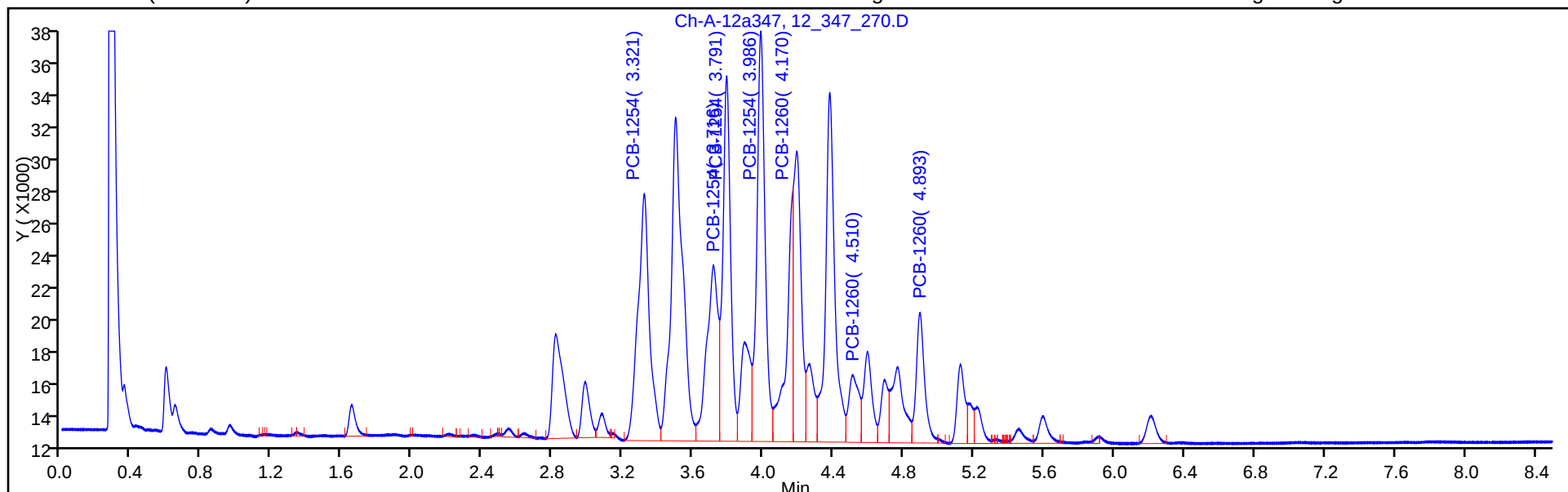
ALS Bottle#: 0

Method: hp12_pcb

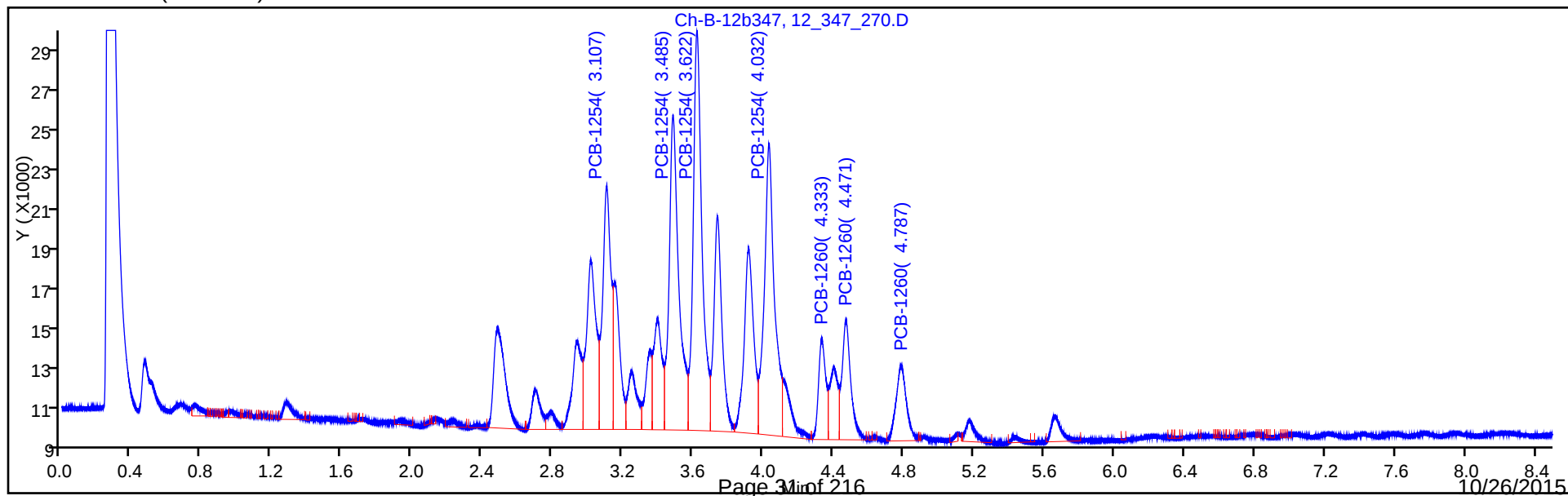
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Injection Date: 23-Oct-2015 09:01:40

Instrument ID: HP5890-12

Lims ID: 480-89678-A-1-C

Lab Sample ID: 480-89678-1

Client ID: TANK 2-SED

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 1.0 ul

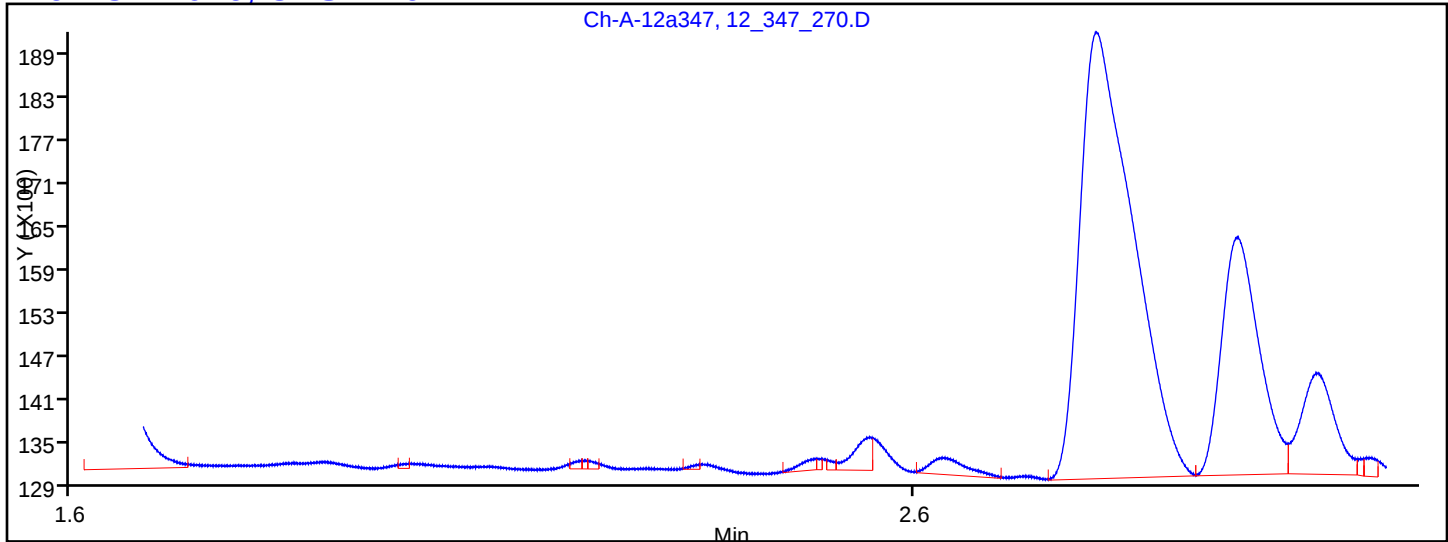
Dil. Factor: 10.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

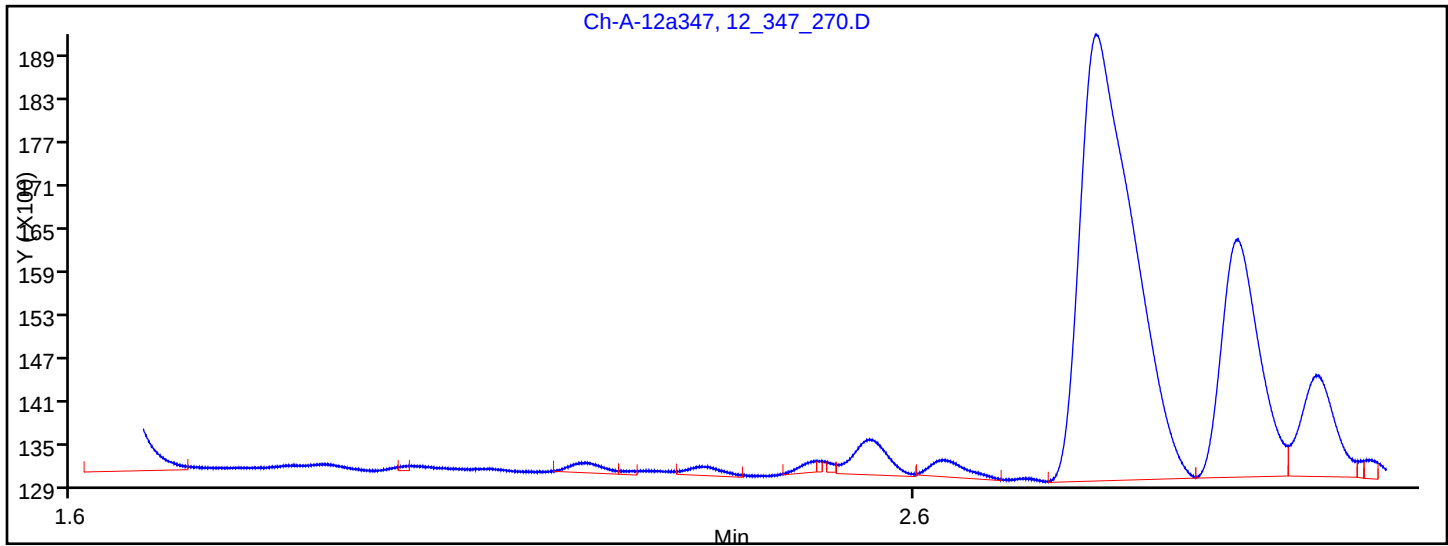
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.215	Response = 76	M
RT = 2.345	Response = 47	M
RT = 2.547	Response = 709	M
RT = 2.637	Response = 712	



Manual Integration Results

RT = 2.205	Response = 380	M
RT = 2.345	Response = 360	M
RT = 2.547	Response = 1417	M
RT = 2.637	Response = 712	

Reviewer: sobolk, 23-Oct-2015 09:32:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-89678-1</u>
SDG No.: _____	
Client Sample ID: <u>TANK 2-SED</u>	Lab Sample ID: <u>480-89678-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>12_347_270.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/22/2015 08:45</u>
Extraction Method: <u>3550C</u>	Date Extracted: <u>10/22/2015 18:08</u>
Sample wt/vol: <u>+2.32(g)</u>	Date Analyzed: <u>10/23/2015 09:01</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: <u>13.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>270588</u>	Units: <u>mg/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		2.5	0.49
11104-28-2	PCB-1221	ND		2.5	0.49
11141-16-5	PCB-1232	ND		2.5	0.49
53469-21-9	PCB-1242	ND		2.5	0.49
12672-29-6	PCB-1248	ND		2.5	0.49
11097-69-1	PCB-1254	17		2.5	1.2
11096-82-5	PCB-1260	5.4	F1	2.5	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D
 Lims ID: 480-89678-A-1-C Lab Sample ID: 480-89678-1
 Client ID: TANK 2-SED
 Sample Type: Client
 Inject. Date: 23-Oct-2015 09:01:40 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:55:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.654	1.652	0.002	4872	0.001737	
2	1.280	1.280	0.000	3306	0.002199	
RPD = 23.52						

6 PCB-1016

M

1	2.205	2.213	-0.008	380	0.002662	M
1	2.345	2.352	-0.007	360	0.004330	M
1	2.547	2.548	-0.001	1417	0.005936	M
1	2.637	2.631	0.006	712	0.006887	
Average of Peak Amounts =					0.004954	
2	1.939	1.940	-0.001	695	0.005818	M
2	2.227	2.230	-0.003	1068	0.007108	M
2	2.361	2.343	0.018	552	0.007903	M
2	0.000	2.705	-2.705	0	0	
Average of Peak Amounts =					0.006943	

RPD = 33.45

LOD = 0.0100

8 PCB-1254

M

1	3.321	3.315	0.006	67681	0.3162	
1	3.716	3.701	0.015	46662	0.2851	
1	3.791	3.779	0.012	67072	0.3176	
1	3.986	3.975	0.011	79534	0.3620	
Average of Peak Amounts =					0.3202	
2	3.107	3.099	0.008	38777	0.2901	
2	3.485	3.470	0.015	58695	0.3034	
2	3.622	3.604	0.018	67457	0.3618	
2	4.032	4.017	0.015	56816	0.3968	M
Average of Peak Amounts =					0.3380	

RPD = 5.41

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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9 PCB-1260

1	4.170	4.164	0.006	38224	0.1487	M
1	0.000	4.379	-4.379	0	0	
1	4.510	4.511	-0.001	16300	0.0734	
1	4.893	4.892	0.001	25924	0.0860	

Average of Peak Amounts = 0.1027

2	0.000	4.030	-4.030	0	0	
2	4.333	4.333	0.000	13938	0.1502	
2	4.471	4.470	0.001	19953	0.0932	
2	4.787	4.786	0.001	14949	0.0816	

Average of Peak Amounts = 0.1083

RPD = 5.36

\$ 12 DCB Decachlorobiphenyl

1	6.210	6.207	0.003	6317	0.001820	
2	5.663	5.661	0.002	5206	0.001970	

RPD = 7.94

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:55:55

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Injection Date: 23-Oct-2015 09:01:40

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: 480-89678-A-1-C

Lab Sample ID: 480-89678-1

Worklist Smp#: 10

Client ID: TANK 2-SED

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

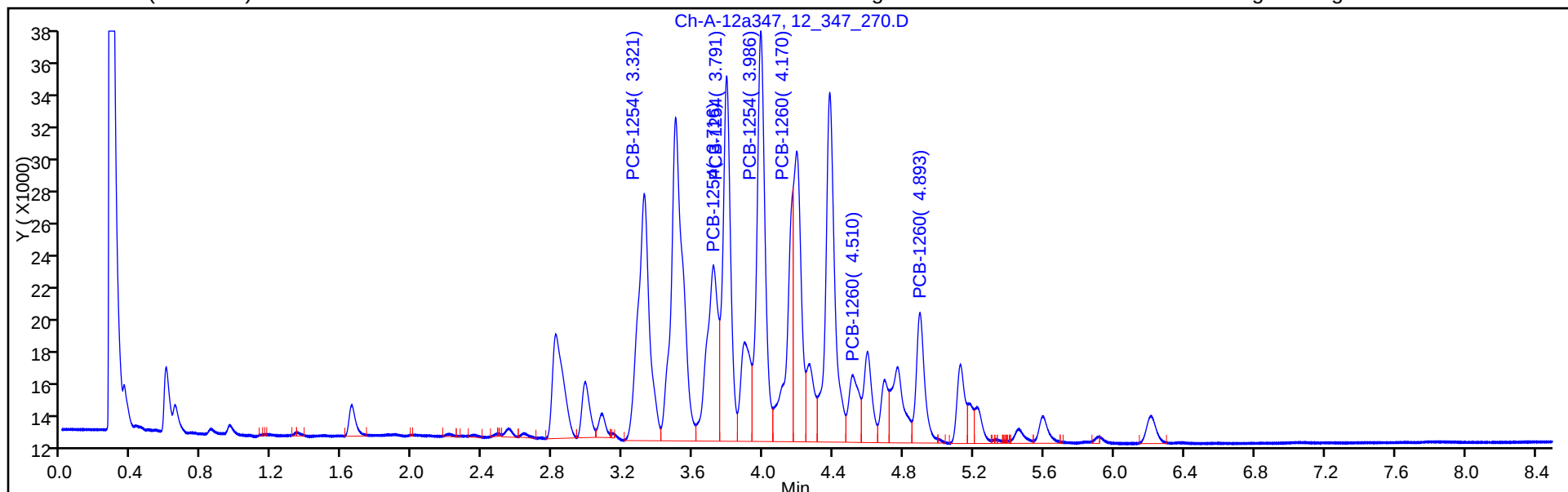
ALS Bottle#: 0

Method: hp12_pcb

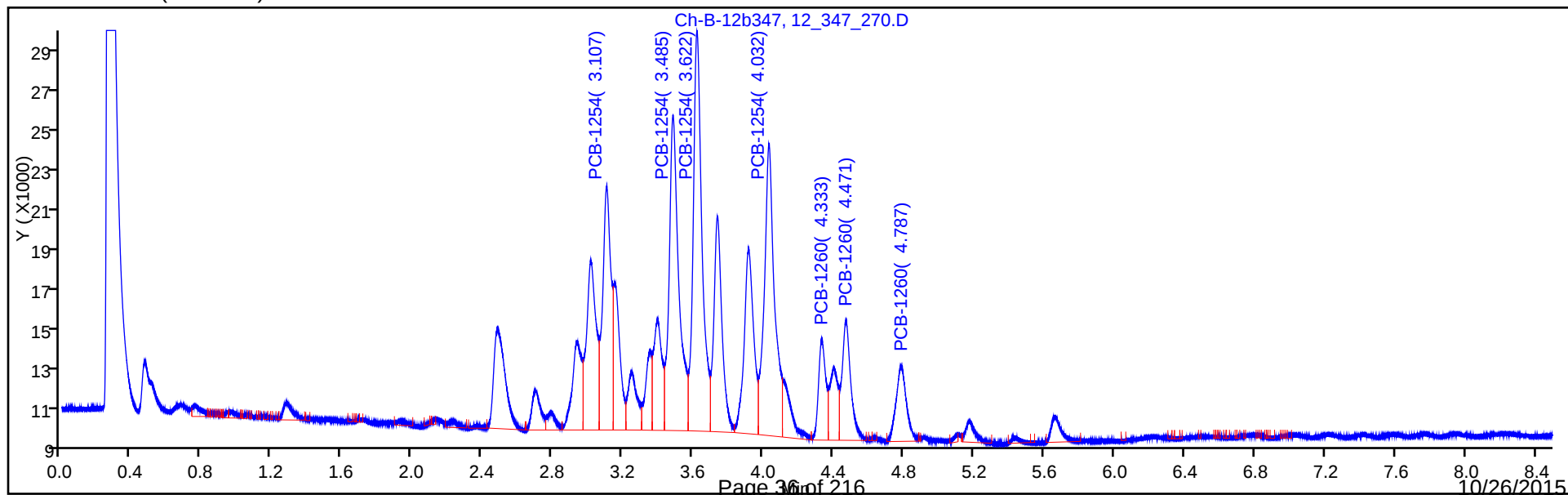
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Injection Date: 23-Oct-2015 09:01:40

Instrument ID: HP5890-12

Lims ID: 480-89678-A-1-C

Lab Sample ID: 480-89678-1

Client ID: TANK 2-SED

Operator ID: buftchrom

ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul

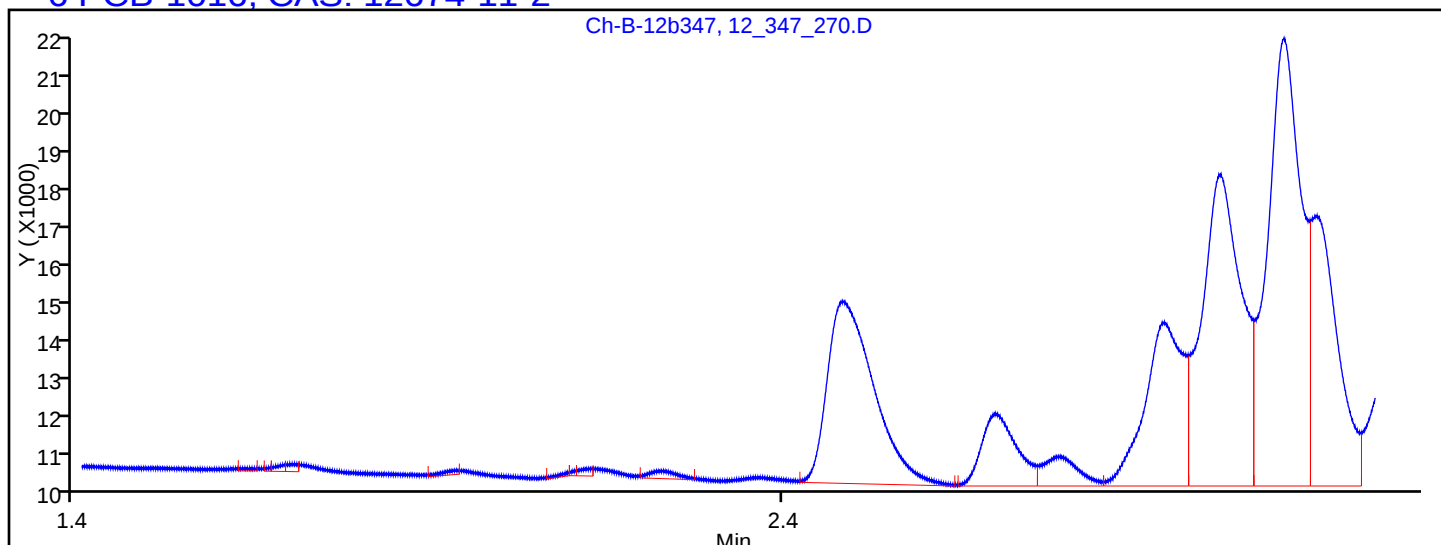
Dil. Factor: 10.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

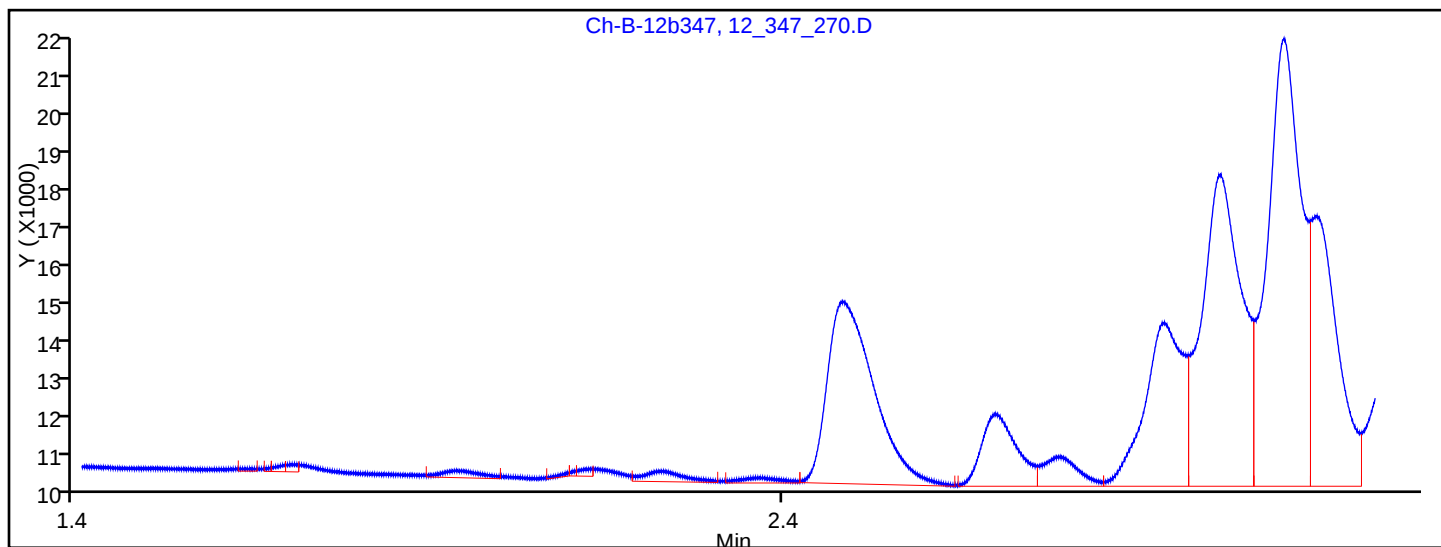
Column: ZB-35 (0.53 mm)

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 1.939	Response = 178	M
RT = 2.227	Response = 547	M
RT = 0.000	Response = 0	M
RT = 2.699	Response = 6484	



Manual Integration Results

RT = 1.939	Response = 695	M
RT = 2.227	Response = 1068	M
RT = 2.361	Response = 552	M
RT = 0.000	Response = 0	

Reviewer: sobolk, 23-Oct-2015 09:32:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_270.D

Injection Date: 23-Oct-2015 09:01:40

Instrument ID: HP5890-12

Lims ID: 480-89678-A-1-C

Lab Sample ID: 480-89678-1

Client ID: TANK 2-SED

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

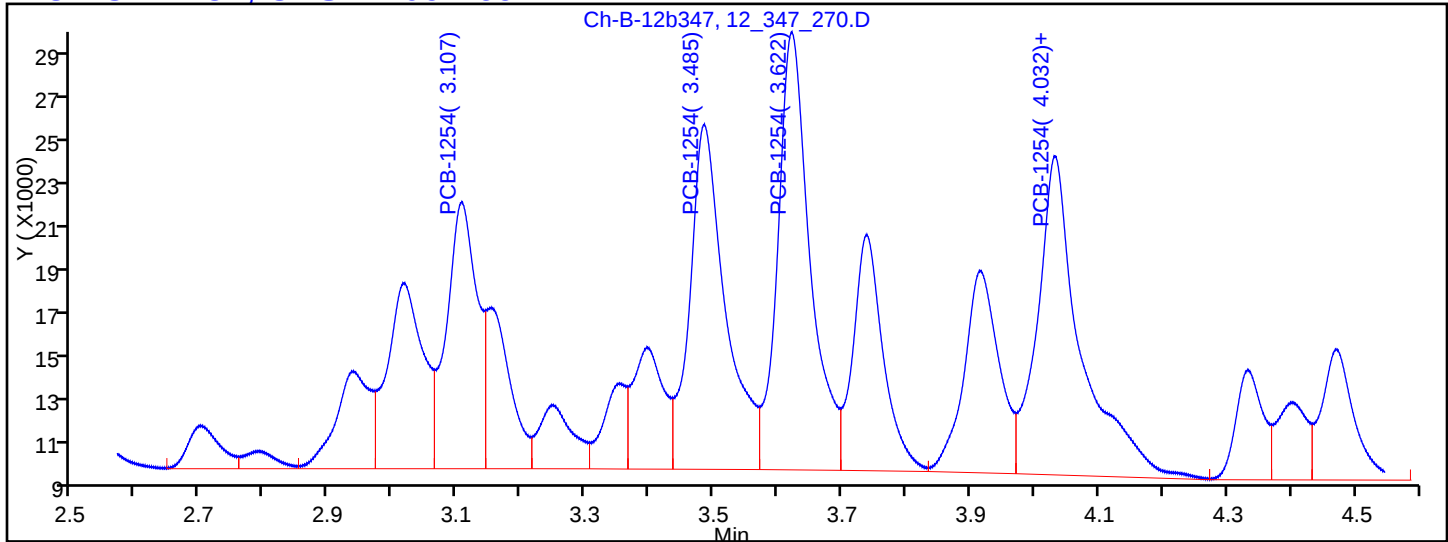
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

Detector: Ch-B-7b136

8 PCB-1254, CAS: 11097-69-1



Processing Integration Results

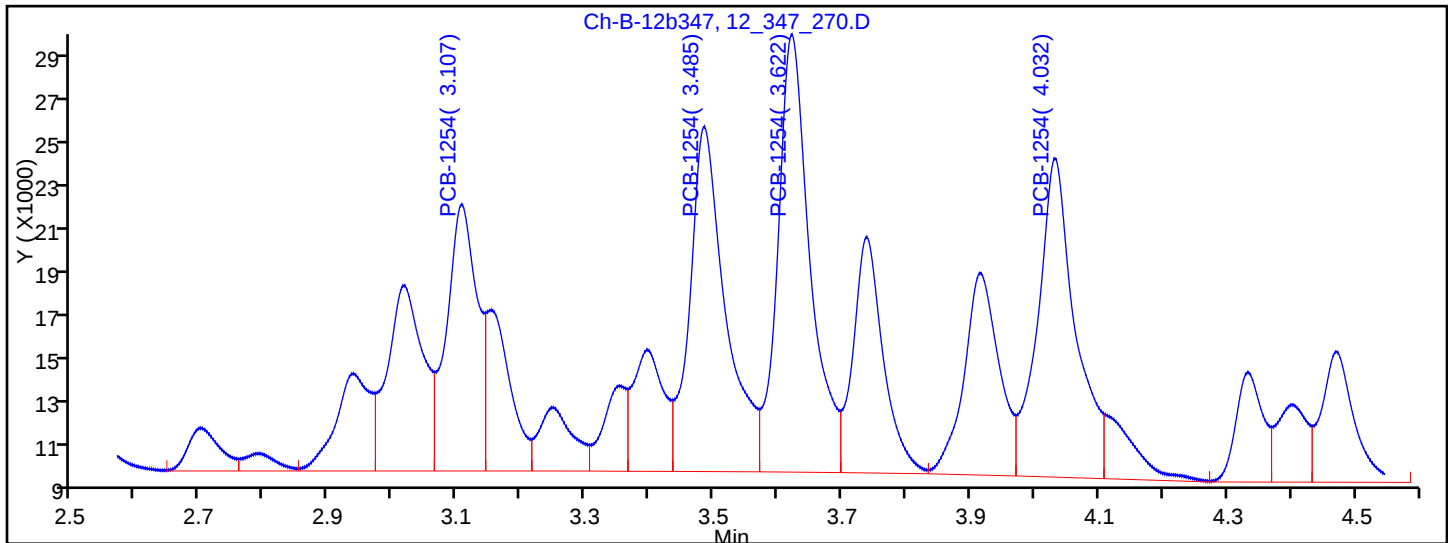
RT = 3.107 Response = 38777

RT = 3.485 Response = 58695

RT = 3.622 Response = 67457

RT = 4.032 Response = 66083

M



Manual Integration Results

RT = 3.107 Response = 38777

RT = 3.485 Response = 58695

RT = 3.622 Response = 67457

RT = 4.032 Response = 56816

M

Reviewer: sobolk, 23-Oct-2015 09:32:39

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 13:14 Calibration End Date: 08/01/2015 14:43 Calibration ID: 24327

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/8	12_339_298.D
Level 2	IC 480-256564/7	12_339_297.D
Level 3	IC 480-256564/6	12_339_296.D
Level 4	IC 480-256564/5	12_339_295.D
Level 5	IC 480-256564/4	12_339_294.D
Level 6	IC 480-256564/3	12_339_293.D
Level 7	IC 480-256564/2	12_339_292.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.251	2.249	2.251	2.255	2.251	2.249	2.245				2.221 - 2.281	2.250
PCB-1016 Peak 2	2.391	2.389	2.389	2.391	2.391	2.387	2.385				2.359 - 2.419	2.389
PCB-1016 Peak 3	2.589	2.586	2.587	2.589	2.588	2.585	2.582				2.557 - 2.617	2.587
PCB-1016 Peak 4	2.684	2.671	2.671	2.671	2.671	2.668	2.665				2.641 - 2.701	2.672
PCB-1260 Peak 1	4.193	4.190	4.191	4.189	4.189	4.187	4.189				4.161 - 4.221	4.190
PCB-1260 Peak 2	4.410	4.407	4.408	4.407	4.407	4.405	4.407				4.378 - 4.438	4.407
PCB-1260 Peak 3	4.539	4.535	4.538	4.535	4.535	4.533	4.535				4.508 - 4.568	4.536
PCB-1260 Peak 4	4.920	4.917	4.918	4.916	4.916	4.915	4.916				4.888 - 4.948	4.917
Tetrachloro-m-xylene	1.692	1.689	1.687	1.688	1.689	1.687	1.685				1.657 - 1.717	1.688
DCB Decachlorobiphenyl	6.233	6.231	6.235	6.232	6.231	6.232	6.232				6.205 - 6.265	6.232

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 13:14 Calibration End Date: 08/01/2015 14:43 Calibration ID: 24327

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/8	12_339_298.D
Level 2	IC 480-256564/7	12_339_297.D
Level 3	IC 480-256564/6	12_339_296.D
Level 4	IC 480-256564/5	12_339_295.D
Level 5	IC 480-256564/4	12_339_294.D
Level 6	IC 480-256564/3	12_339_293.D
Level 7	IC 480-256564/2	12_339_292.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	182100 140444	150880 123446	147820 111667	142775	Ave		142733.071				15.6		20.0			
PCB-1016 Peak 2	115000 75830	87000 73031	80670 70379	80135	Ave		83149.2857				18.1		20.0			
PCB-1016 Peak 3	290150 225892	251300 217812	239090 211383	235370	Ave		238713.857				11.0		20.0			
PCB-1016 Peak 4	110850 93282	127820 89290	115520 85644	101305	Ave		103387.286				14.9		20.0			
PCB-1260 Peak 1	296050 241658	272340 237940	263620 224543	263760	Ave		257130.071				9.4		20.0			
PCB-1260 Peak 2	210850 218512	232240 217627	228450 210935	229315	Ave		221132.714				4.0		20.0			
PCB-1260 Peak 3	246300 211768	235480 207002	230560 198632	225200	Ave		222134.500				7.6		20.0			
PCB-1260 Peak 4	298500 301252	310600 294371	305900 285397	314060	Ave		301440.000				3.3		20.0			
Tetrachloro-m-xylene	3040000 2740400	2840000 2700280	2847200 2761860	2709400	Ave		2805591.43				4.2		20.0			
DCB Decachlorobiphenyl	4290000 3181600	4123200 3018000	3396800 2942340	3349600	Ave		3471648.57				15.3		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 13:14 Calibration End Date: 08/01/2015 14:43 Calibration ID: 24327

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/8	12_339_298.D
Level 2	IC 480-256564/7	12_339_297.D
Level 3	IC 480-256564/6	12_339_296.D
Level 4	IC 480-256564/5	12_339_295.D
Level 5	IC 480-256564/4	12_339_294.D
Level 6	IC 480-256564/3	12_339_293.D
Level 7	IC 480-256564/2	12_339_292.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	3642 123446	7544 223333	14782	28555	70222	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	2300 73031	4350 140758	8067	16027	37915	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	5803 217812	12565 422766	23909	47074	112946	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	2217 89290	6391 171288	11552	20261	46641	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	5921 237940	13617 449085	26362	52752	120829	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	4217 217627	11612 421870	22845	45863	109256	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	4926 207002	11774 397263	23056	45040	105884	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	5970 294371	15530 570794	30590	62812	150626	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	1520 67507	3550 138093	7118	13547	34255	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	2145 75450	5154 147117	8492	16748	39770	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_292.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Aug-2015 13:14:05 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:44 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 11:04:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.685	1.687	-0.002	138093	0.0500	0.0492	
2	1.308	1.310	-0.002	87730	0.0500	0.0584	
						RPD = 17.00	

6 PCB-1016

1	2.245	2.251	-0.006	223333	2.00	1.56	a
1	2.385	2.389	-0.004	140758	2.00	1.69	
1	2.582	2.587	-0.005	422766	2.00	1.77	
1	2.665	2.671	-0.006	171288	2.00	1.66	
Average of Peak Amounts =						1.67	
2	1.967	1.975	-0.008	218067	2.00	1.83	a
2	2.259	2.265	-0.006	343305	2.00	2.28	
2	2.372	2.375	-0.003	141962	2.00	2.03	
2	2.735	2.743	-0.008	168791	2.00	2.31	
Average of Peak Amounts =						2.11	
						RPD = 23.30	

9 PCB-1260

1	4.189	4.191	-0.002	449085	2.00	1.75	
1	4.407	4.408	-0.001	421870	2.00	1.91	
1	4.535	4.538	-0.003	397263	2.00	1.79	
1	4.916	4.918	-0.002	570794	2.00	1.89	a
Average of Peak Amounts =						1.83	
2	4.056	4.055	0.001	349533	2.00	2.22	a
2	4.358	4.361	-0.003	187209	2.00	2.02	a
2	4.495	4.497	-0.002	460761	2.00	2.15	a
2	4.810	4.814	-0.004	410659	2.00	2.24	a
Average of Peak Amounts =						2.16	
						RPD = 16.26	

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_292.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.232	6.235	-0.003	147117	0.0500	0.0424	
2	5.683	5.687	-0.004	117584	0.0500	0.0445	

RPD = 4.88

Reagents:

1660sur/is2.0_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:45

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_292.D

Injection Date: 01-Aug-2015 13:14:05

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 7

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

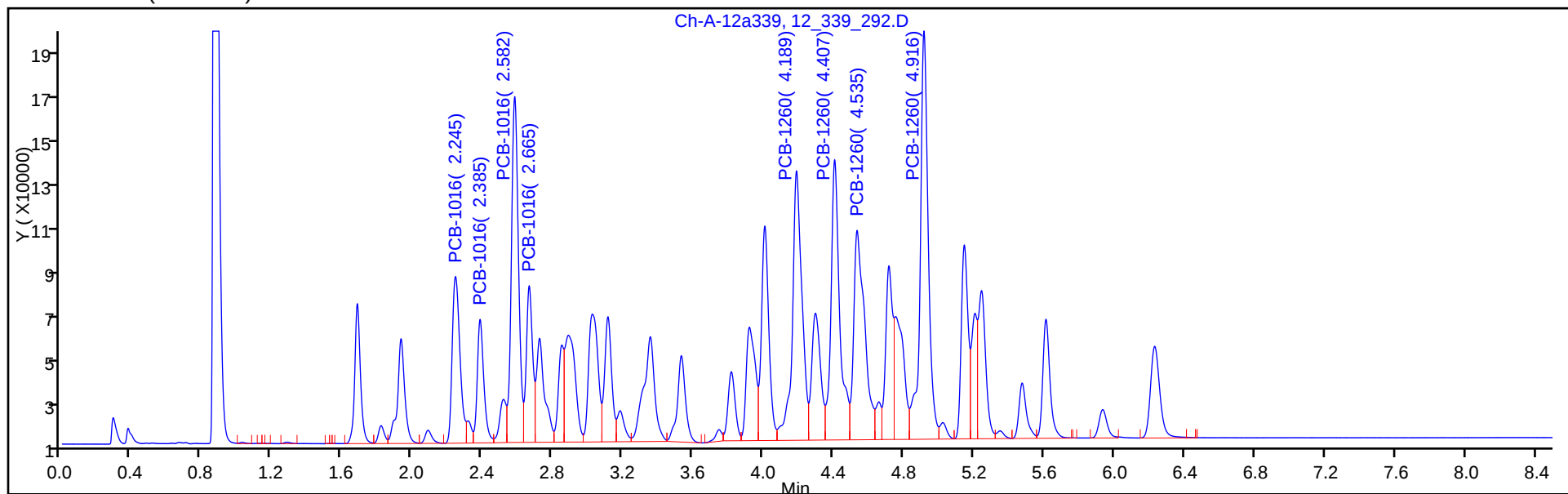
Dil. Factor: 1.0000

ALS Bottle#: 0

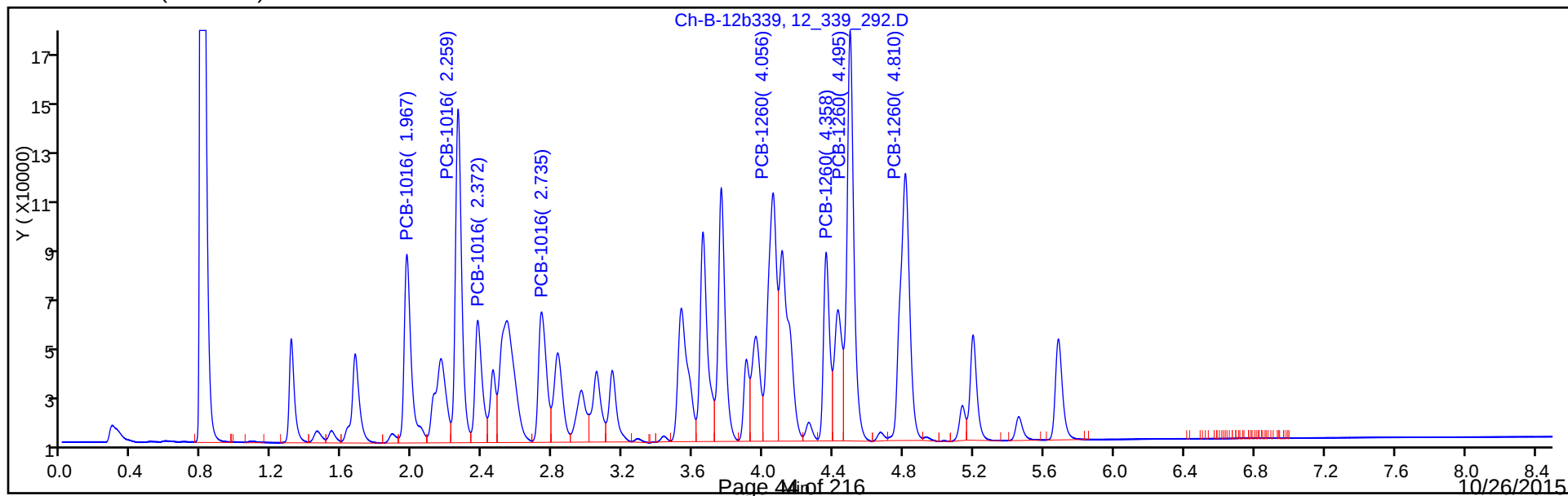
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-Aug-2015 13:29:01 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:46 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 11:06:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M

1	1.687	1.687	0.000	67507	0.0250	0.0241	M
2	1.311	1.310	0.001	37034	0.0250	0.0246	

RPD = 2.36

6 PCB-1016 M

1	2.249	2.251	-0.002	123446	1.00	0.8649	M
1	2.387	2.389	-0.002	73031	1.00	0.8783	M
1	2.585	2.587	-0.002	217812	1.00	0.9124	M
1	2.668	2.671	-0.003	89290	1.00	0.8636	M

Average of Peak Amounts = 0.8798

2	1.971	1.975	-0.004	112700	1.00	0.9435	
2	2.263	2.265	-0.002	162627	1.00	1.08	
2	2.375	2.375	0.000	69030	1.00	0.9883	
2	2.739	2.743	-0.004	80910	1.00	1.10	

Average of Peak Amounts = 1.03

RPD = 15.71

9 PCB-1260 M

1	4.187	4.191	-0.004	237940	1.00	0.9254	M
1	4.405	4.408	-0.003	217627	1.00	0.9841	M
1	4.533	4.538	-0.005	207002	1.00	0.9319	M
1	4.915	4.918	-0.003	294371	1.00	0.9765	M

Average of Peak Amounts = 0.9545

2	4.053	4.055	-0.002	168339	1.00	1.07	
2	4.357	4.361	-0.004	91614	1.00	0.9872	
2	4.493	4.497	-0.004	226538	1.00	1.06	
2	4.810	4.814	-0.004	197760	1.00	1.08	

Average of Peak Amounts = 1.05

RPD = 9.43

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5890-12\\20150801-45014.b\\12_339_293.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.232	6.235	-0.003	75450	0.0250	0.0217	
2	5.683	5.687	-0.004	59247	0.0250	0.0224	

RPD = 3.11

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00003

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:47

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D

Injection Date: 01-Aug-2015 13:29:01

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 6

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

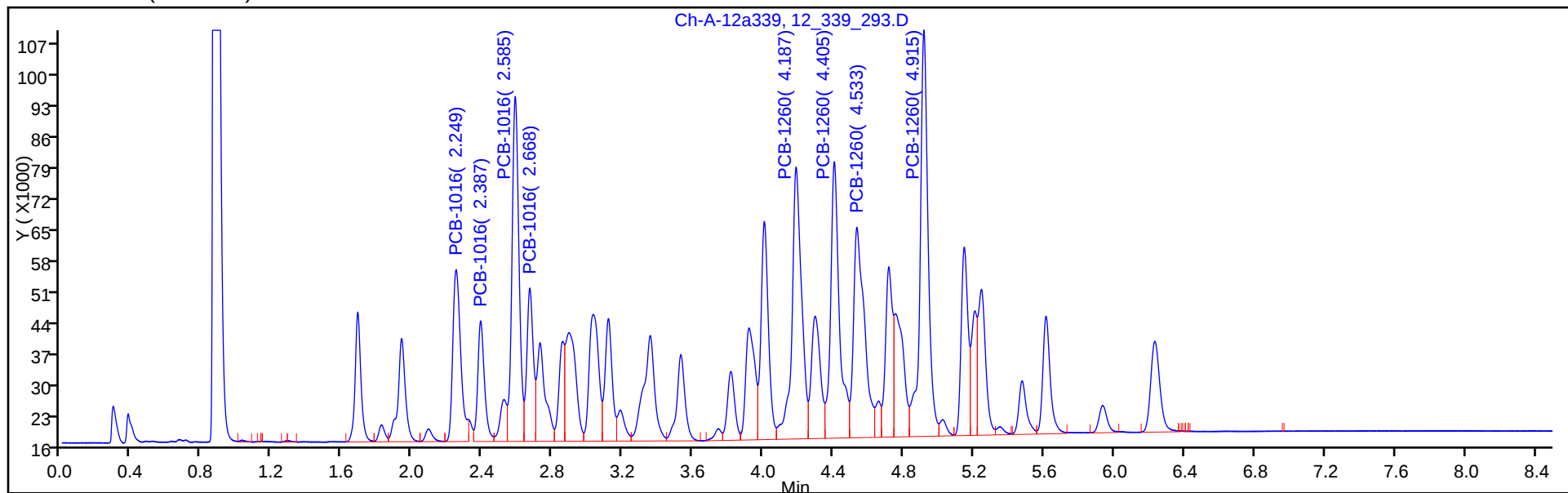
Dil. Factor: 1.0000

ALS Bottle#: 0

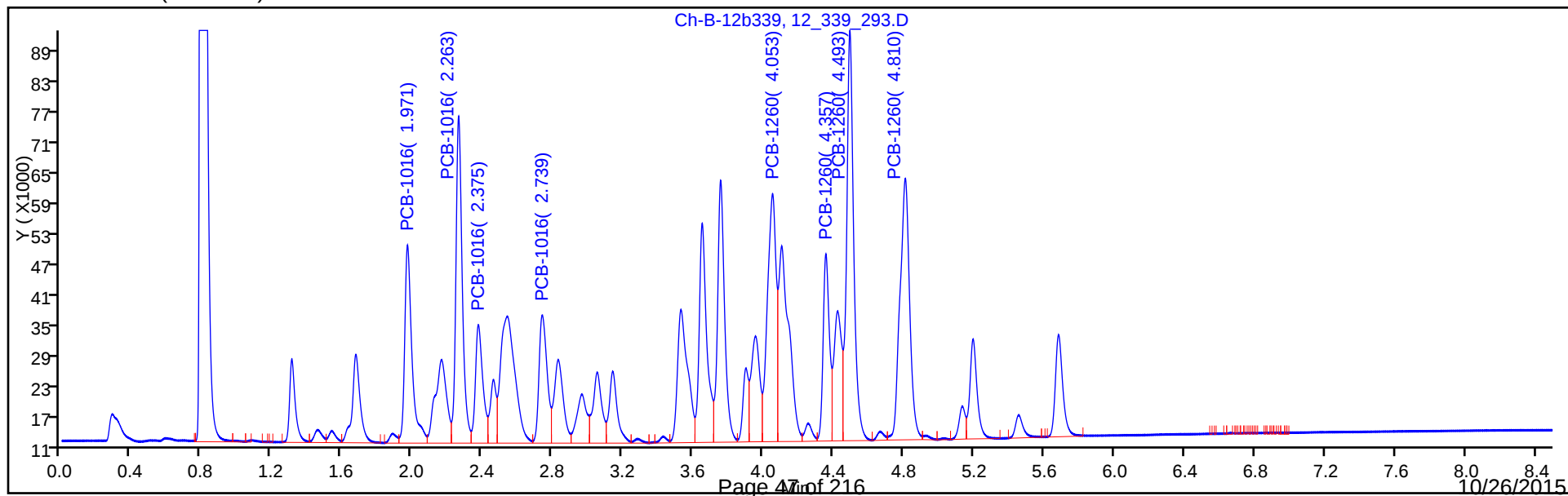
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



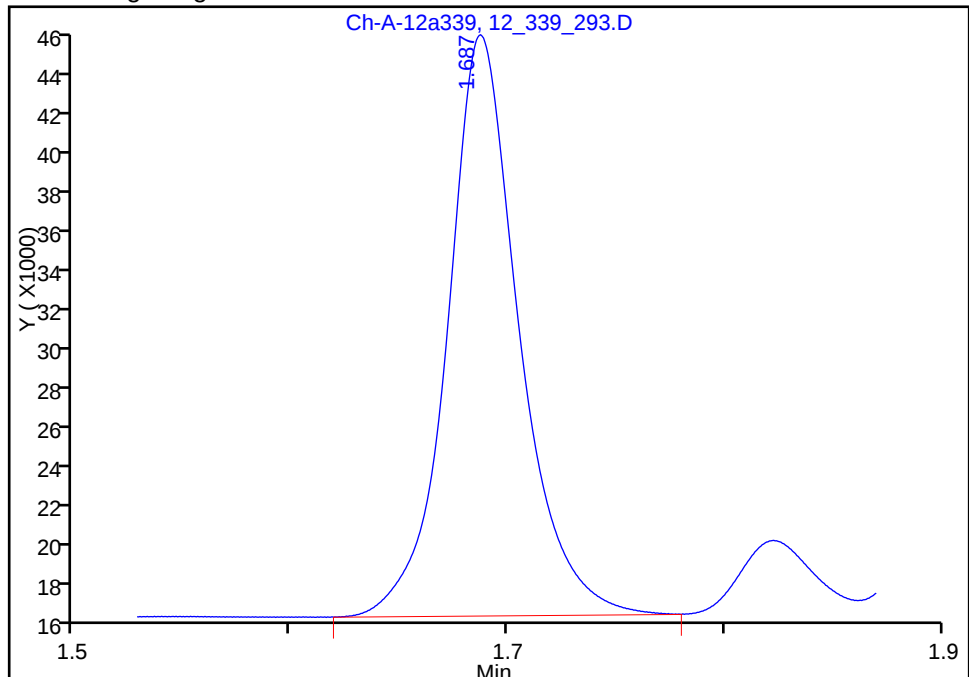
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D		
Injection Date:	01-Aug-2015 13:29:01	Instrument ID:	HP5890-12
Lims ID:	IC 6		
Client ID:			
Operator ID:	buftchrom	ALS Bottle#:	0 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL
Column:	ZB-5 (0.25 mm)	Detector	Ch-A-7A136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

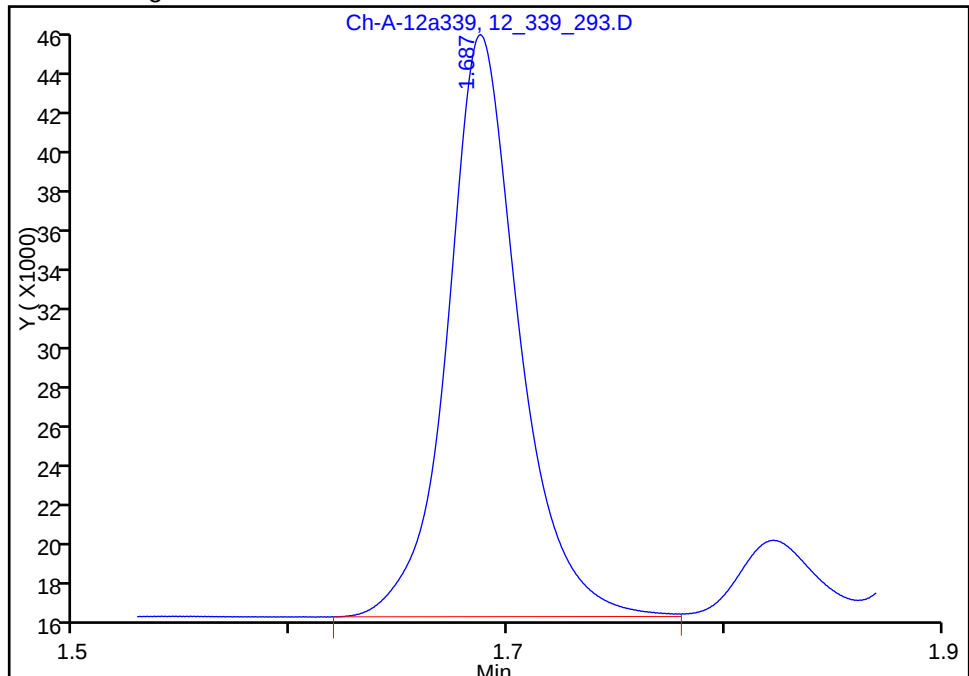
RT: 1.69
Area: 67030
Amount: 0.023872
Amount Units: ng/uL

Processing Integration Results



RT: 1.69
Area: 67507
Amount: 0.024062
Amount Units: ng/uL

Manual Integration Results



Reviewer: eversd, 03-Aug-2015 11:06:18
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D

Injection Date: 01-Aug-2015 13:29:01

Instrument ID: HP5890-12

Lims ID: IC 6

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

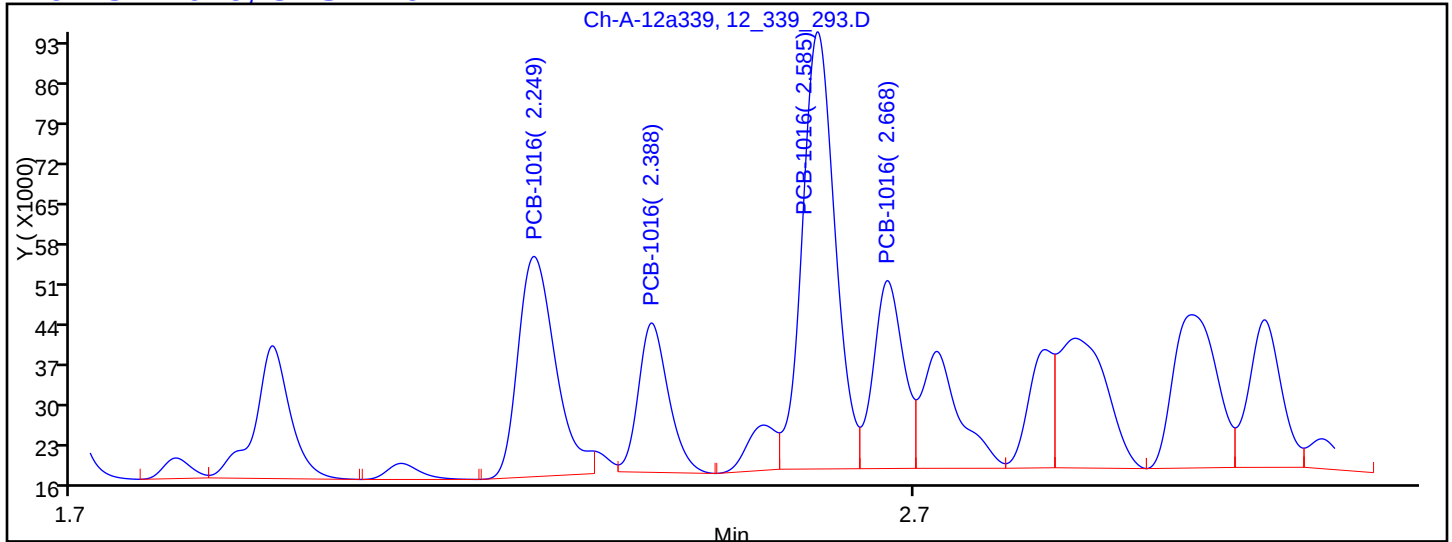
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

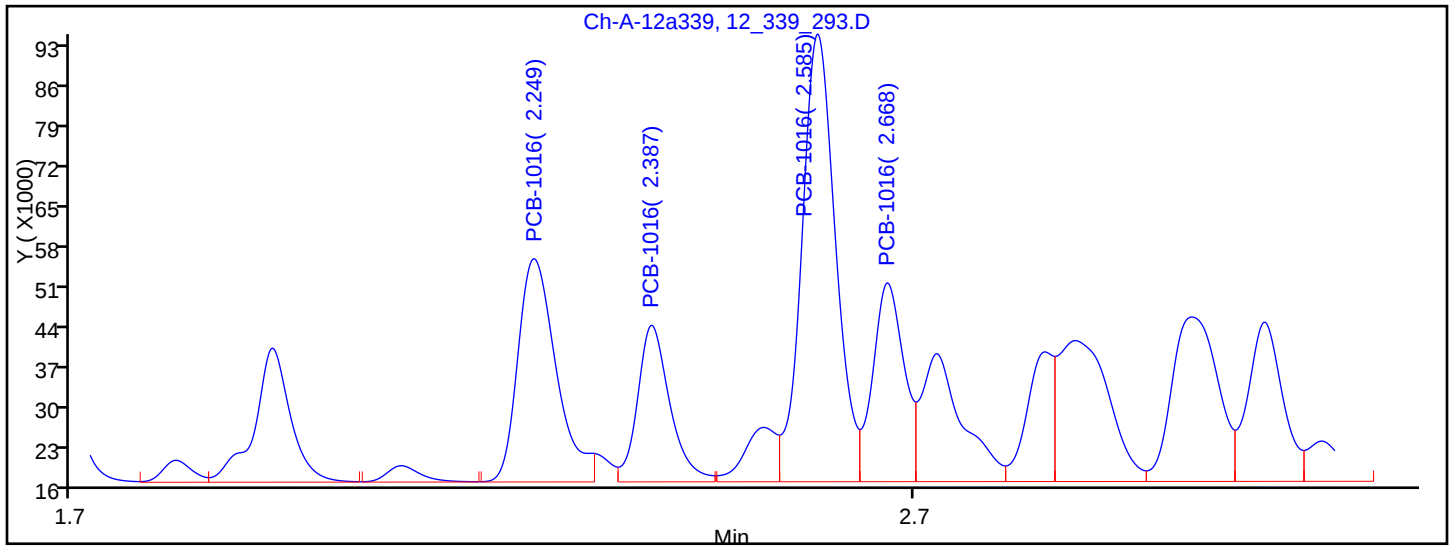
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.249	Response = 119010	M
RT = 2.388	Response = 64671	M
RT = 2.585	Response = 207399	M
RT = 2.668	Response = 81732	M



Manual Integration Results

RT = 2.249	Response = 123446	M
RT = 2.387	Response = 73031	M
RT = 2.585	Response = 217812	M
RT = 2.668	Response = 89290	M

Reviewer: eversd, 03-Aug-2015 11:06:18

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D

Injection Date: 01-Aug-2015 13:29:01

Instrument ID: HP5890-12

Lims ID: IC 6

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

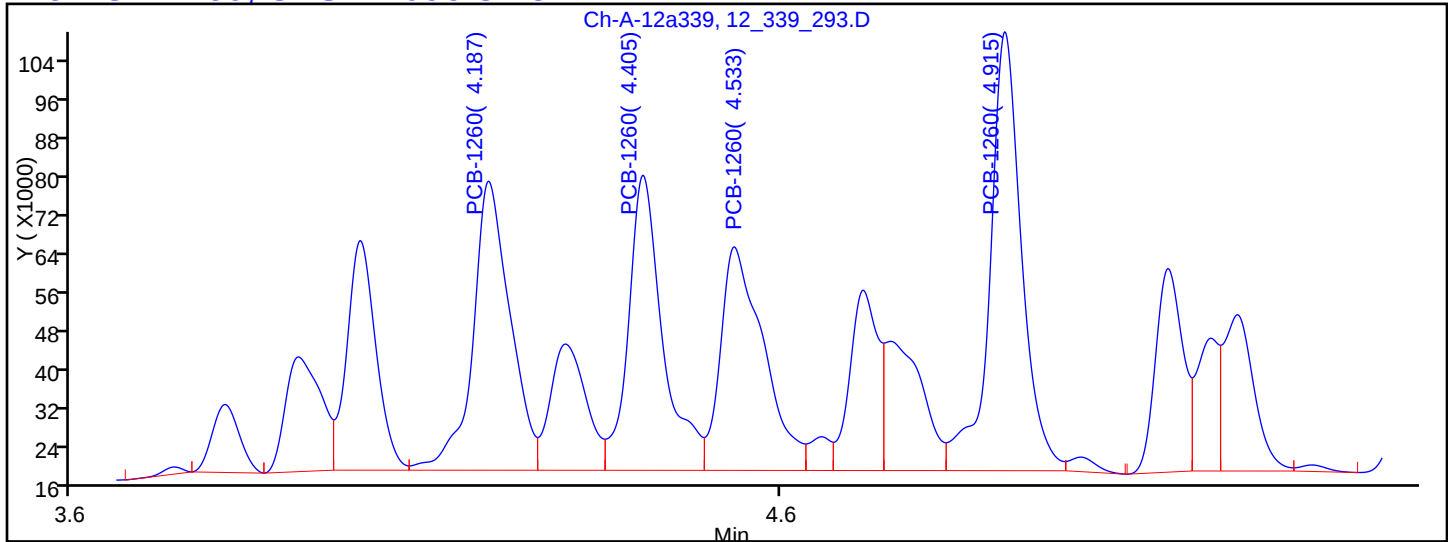
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

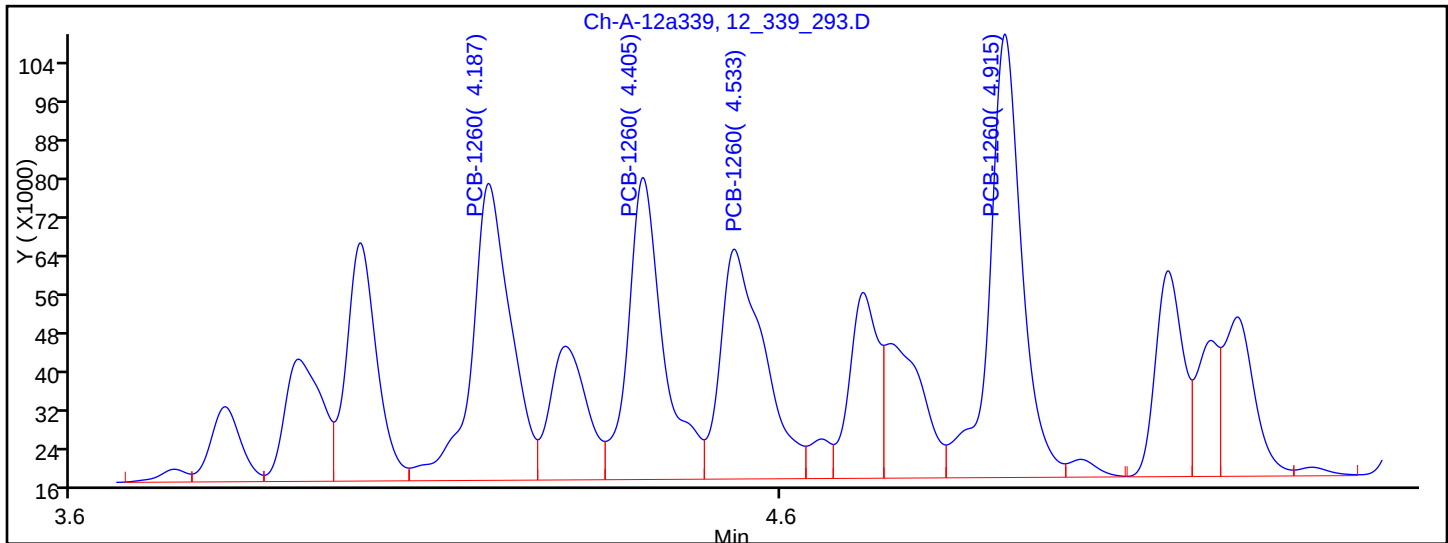
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.187	Response = 219928	M
RT = 4.405	Response = 205657	M
RT = 4.533	Response = 195861	M
RT = 4.915	Response = 284747	M



Manual Integration Results

RT = 4.187	Response = 237940	M
RT = 4.405	Response = 217627	M
RT = 4.533	Response = 207002	M
RT = 4.915	Response = 294371	M

Reviewer: eversd, 03-Aug-2015 11:06:18

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_294.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-Aug-2015 13:43:59 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:49 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.689	1.689	0.000	34255	0.0125	0.0122
2	1.310	1.310	0.000	16787	0.0125	0.0112

RPD = 8.91

6 PCB-1016

1	2.251	2.251	0.000	70222	0.5000	0.4920
1	2.391	2.391	0.000	37915	0.5000	0.4560
1	2.588	2.588	0.000	112946	0.5000	0.4731
1	2.671	2.671	0.000	46641	0.5000	0.4511

Average of Peak Amounts = 0.4681

2	1.976	1.976	0.000	60815	0.5000	0.5091
2	2.266	2.266	0.000	77005	0.5000	0.5125
2	2.379	2.379	0.000	34194	0.5000	0.4896
2	2.744	2.744	0.000	38889	0.5000	0.5311

Average of Peak Amounts = 0.5106

RPD = 8.69

9 PCB-1260

1	4.189	4.189	0.000	120829	0.5000	0.4699
1	4.407	4.407	0.000	109256	0.5000	0.4941
1	4.535	4.535	0.000	105884	0.5000	0.4767
1	4.916	4.916	0.000	150626	0.5000	0.4997

Average of Peak Amounts = 0.4851

2	4.054	4.054	0.000	81175	0.5000	0.5164
2	4.359	4.359	0.000	45086	0.5000	0.4858
2	4.495	4.495	0.000	110930	0.5000	0.5180
2	4.810	4.810	0.000	94741	0.5000	0.5174

Average of Peak Amounts = 0.5094

RPD = 4.89

\$ 12 DCB Decachlorobiphenyl

1	6.231	6.231	0.000	39770	0.0125	0.0115
2	5.682	5.682	0.000	30597	0.0125	0.0116

Reagents:

1660sur/is0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:50

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_294.D

Injection Date: 01-Aug-2015 13:43:59

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 5

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

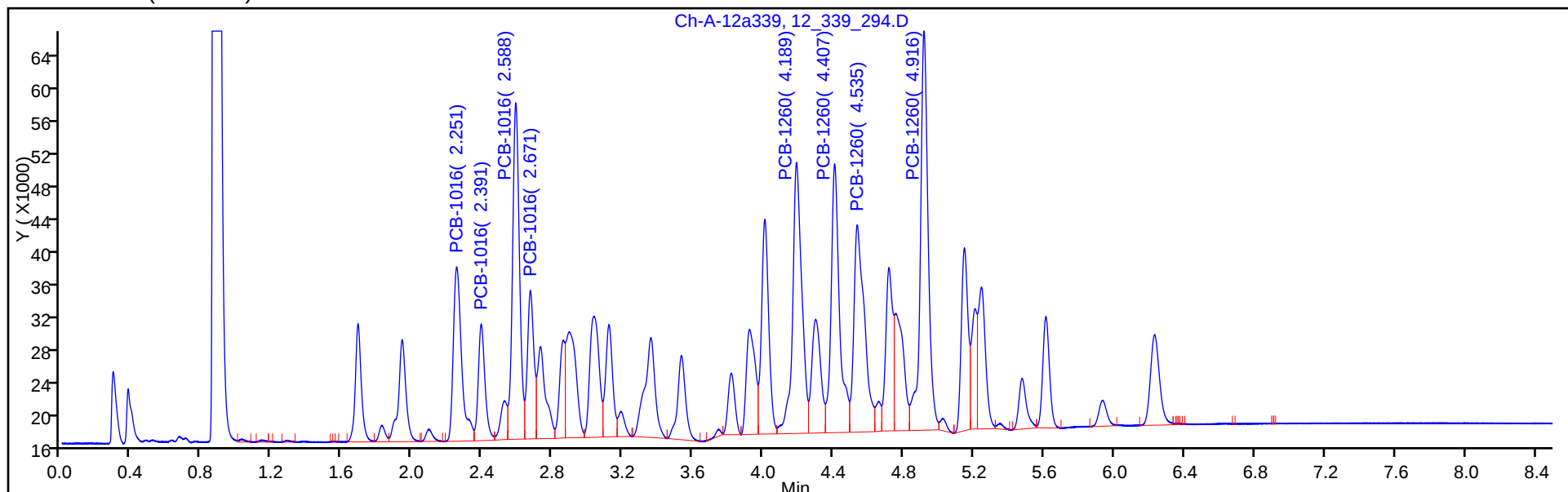
Dil. Factor: 1.0000

ALS Bottle#: 0

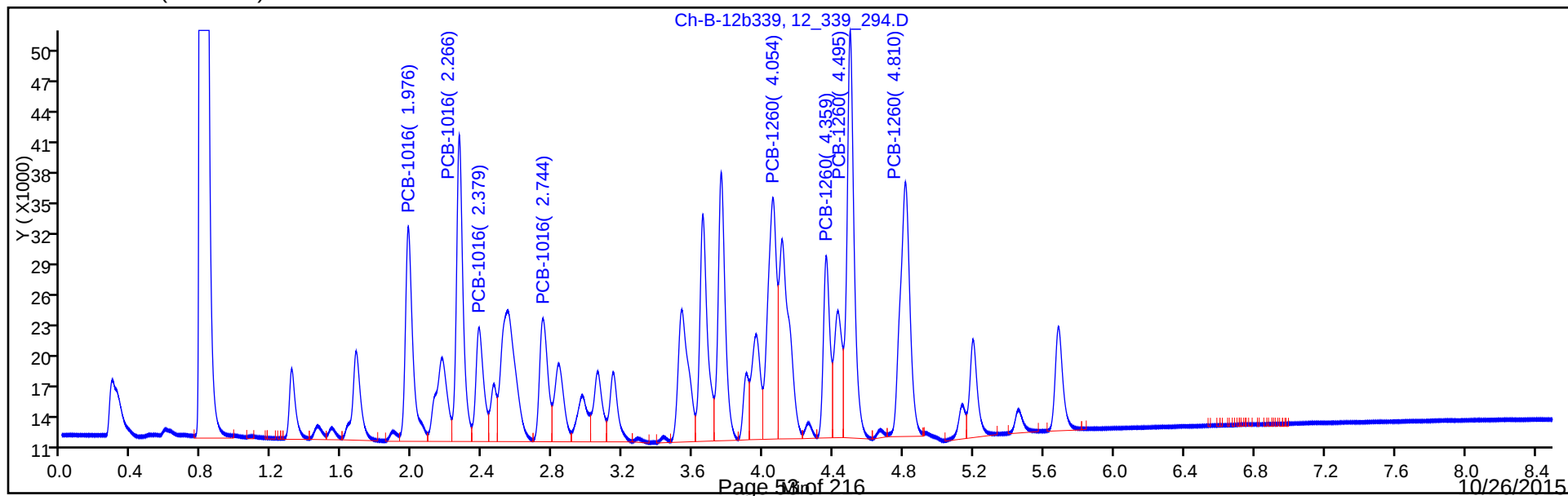
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Aug-2015 13:58:50 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:52 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:07:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.688	1.689	-0.001	13547	0.005000	0.004829	
2	1.310	1.310	0.000	6217	0.005000	0.004136	

RPD = 15.45

6 PCB-1016

M

1	2.255	2.251	0.004	28555	0.2000	0.2001	M
1	2.391	2.391	0.000	16027	0.2000	0.1927	M
1	2.589	2.588	0.001	47074	0.2000	0.1972	M
1	2.671	2.671	0.000	20261	0.2000	0.1960	M

Average of Peak Amounts = 0.1965

2	1.975	1.976	-0.001	24277	0.2000	0.2032	M
2	2.269	2.266	0.003	28119	0.2000	0.1871	M
2	2.379	2.379	0.000	13402	0.2000	0.1919	M
2	2.745	2.744	0.001	14320	0.2000	0.1956	M

Average of Peak Amounts = 0.1945

RPD = 1.04

9 PCB-1260

M

1	4.189	4.189	0.000	52752	0.2000	0.2052	M
1	4.407	4.407	0.000	45863	0.2000	0.2074	M
1	4.535	4.535	0.000	45040	0.2000	0.2028	M
1	4.916	4.916	0.000	62812	0.2000	0.2084	M

Average of Peak Amounts = 0.2059

2	4.053	4.054	-0.001	29782	0.2000	0.1895	M
2	4.359	4.359	0.000	17291	0.2000	0.1863	M
2	4.496	4.495	0.001	43010	0.2000	0.2008	M
2	4.810	4.810	0.000	36559	0.2000	0.1996	M

Average of Peak Amounts = 0.1941

RPD = 5.93

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.232	6.231	0.001	16748	0.005000	0.004824	
2	5.683	5.682	0.001	12541	0.005000	0.004746	

RPD = 1.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:53

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Injection Date: 01-Aug-2015 13:58:50

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

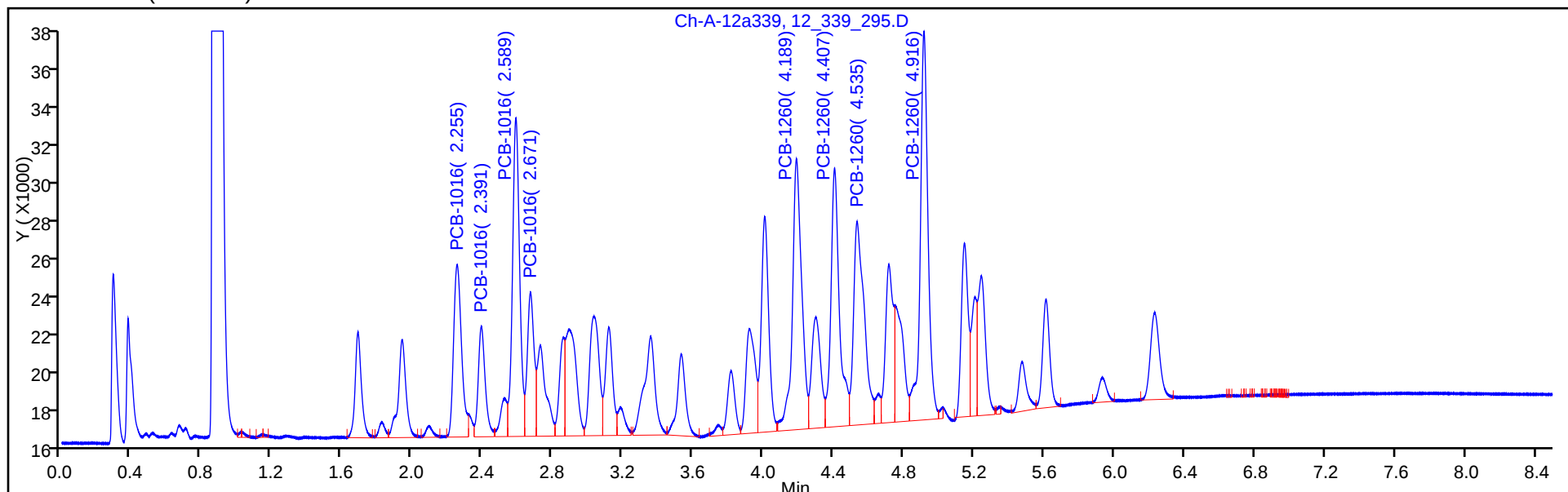
Dil. Factor: 1.0000

ALS Bottle#: 0

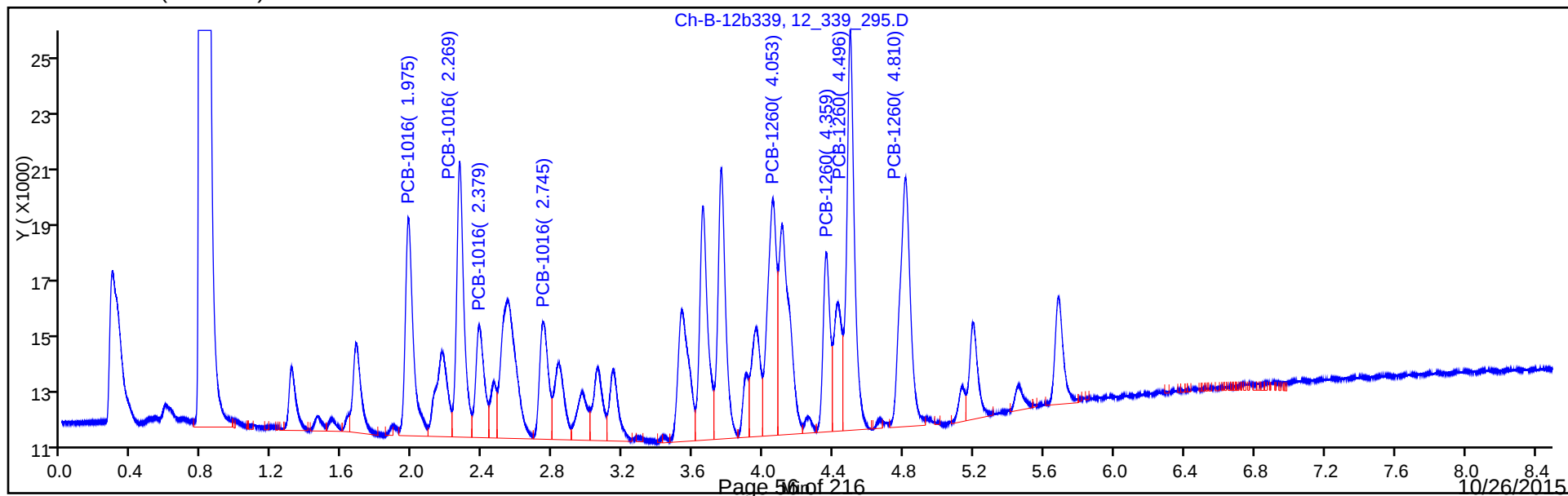
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Injection Date: 01-Aug-2015 13:58:50

Instrument ID: HP5890-12

Lims ID: IC 4

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

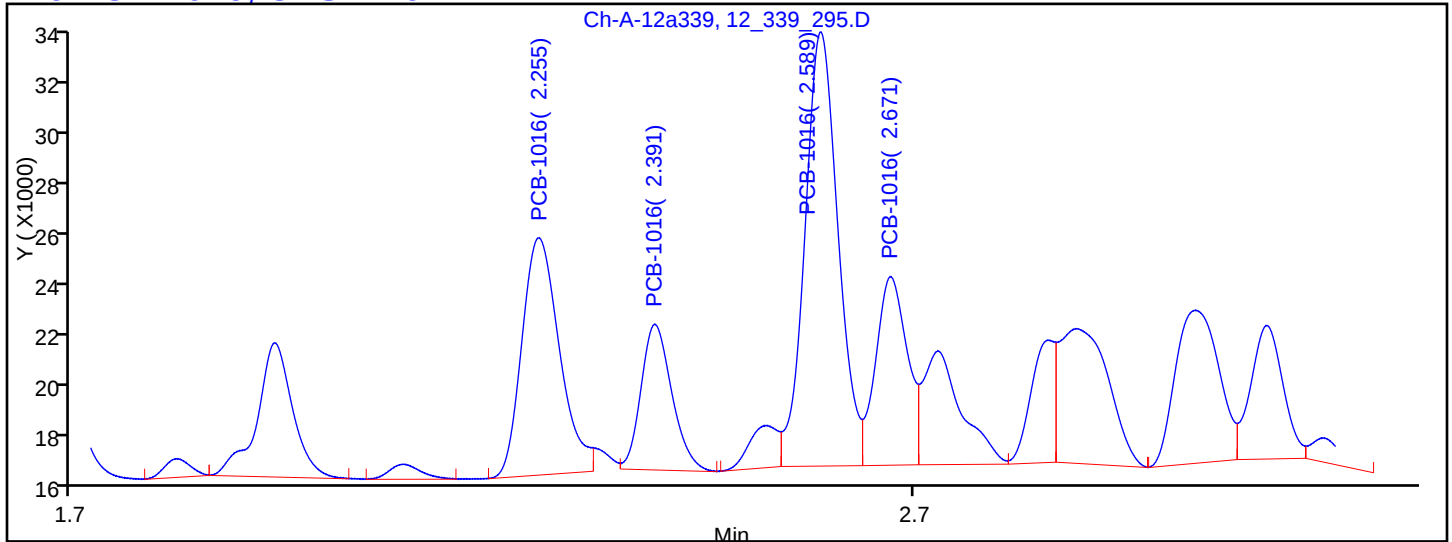
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

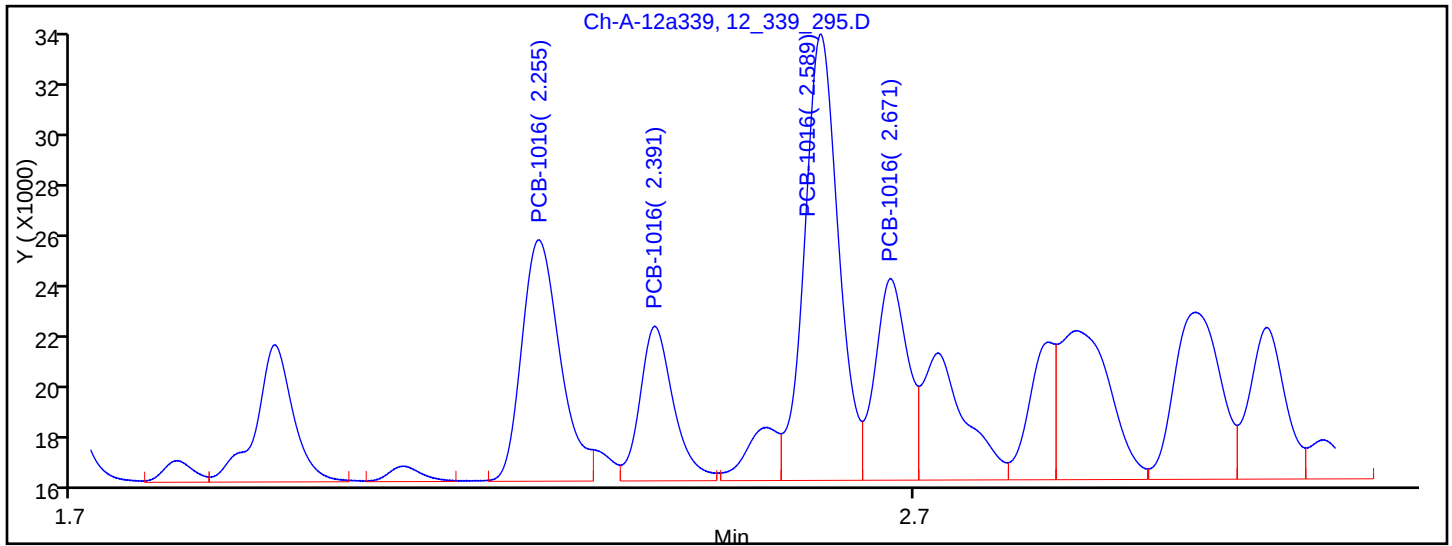
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.255	Response = 27347	M
RT = 2.391	Response = 13832	M
RT = 2.589	Response = 44395	M
RT = 2.671	Response = 18315	M



Manual Integration Results

RT = 2.255	Response = 28555	M
RT = 2.391	Response = 16027	M
RT = 2.589	Response = 47074	M
RT = 2.671	Response = 20261	M

Reviewer: eversd, 03-Aug-2015 11:07:18

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Injection Date: 01-Aug-2015 13:58:50

Instrument ID: HP5890-12

Lims ID: IC 4

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

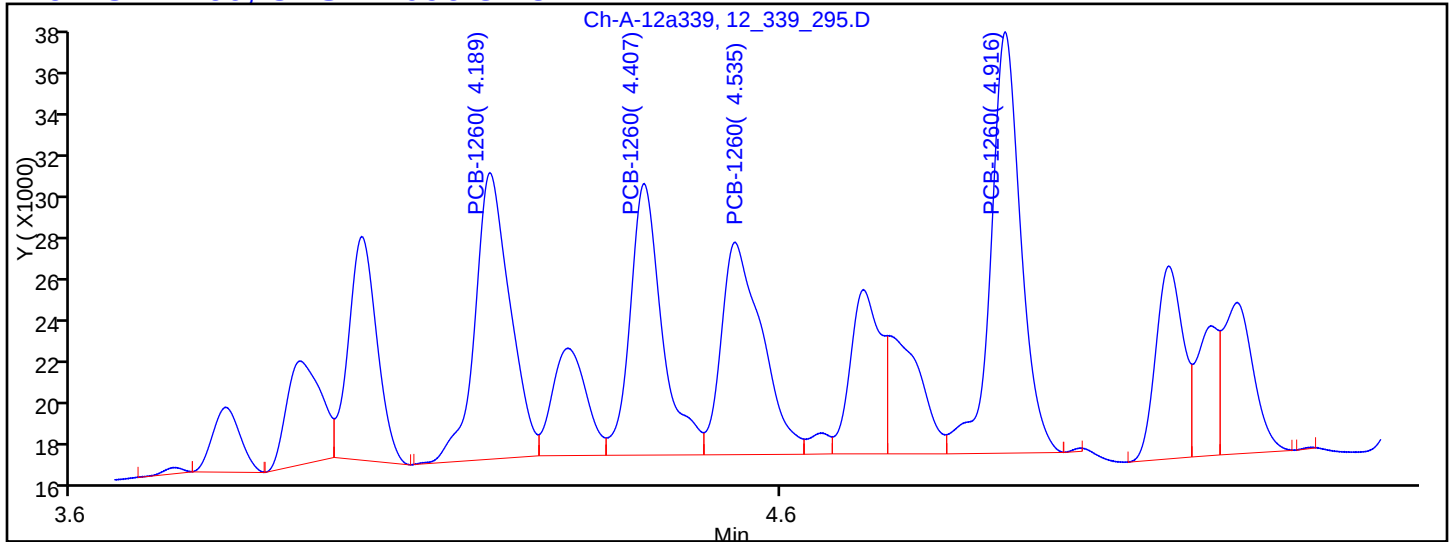
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

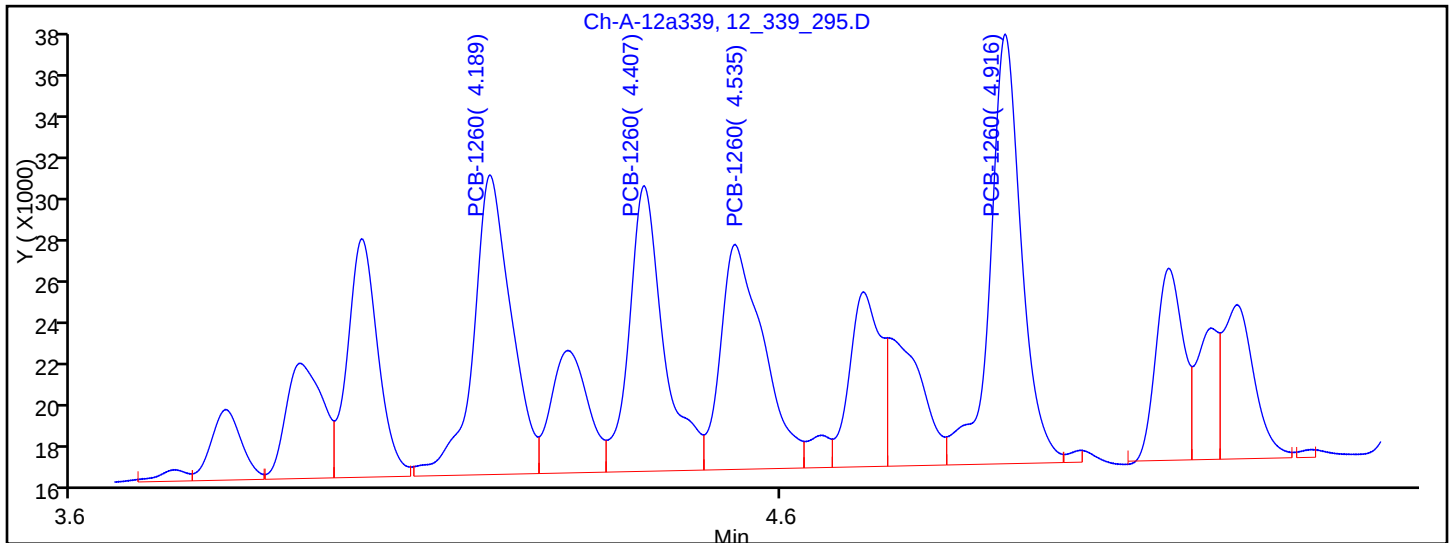
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.189	Response = 46535	M
RT = 4.407	Response = 40481	M
RT = 4.535	Response = 40156	M
RT = 4.916	Response = 58924	M



Manual Integration Results

RT = 4.189	Response = 52752	M
RT = 4.407	Response = 45863	M
RT = 4.535	Response = 45040	M
RT = 4.916	Response = 62812	M

Reviewer: eversd, 03-Aug-2015 11:07:18

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Aug-2015 14:13:48 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:55 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:07:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.687	1.687	0.000	7118	0.002500	0.002537	
2	1.310	1.310	0.000	3326	0.002500	0.002213	
RPD = 13.66							

6 PCB-1016

1	2.251	2.251	0.000	14782	0.1000	0.1036	
1	2.389	2.389	0.000	8067	0.1000	0.0970	
1	2.587	2.587	0.000	23909	0.1000	0.1002	
1	2.671	2.671	0.000	11552	0.1000	0.1117	
Average of Peak Amounts =							0.1031
2	1.975	1.975	0.000	12540	0.1000	0.1050	
2	2.265	2.265	0.000	14153	0.1000	0.0942	
2	2.375	2.375	0.000	6820	0.1000	0.0976	
2	2.743	2.743	0.000	6983	0.1000	0.0954	
Average of Peak Amounts =							0.0980
RPD = 5.04							

9 PCB-1260

1	4.191	4.191	0.000	26362	0.1000	0.1025	M
1	4.408	4.408	0.000	22845	0.1000	0.1033	M
1	4.538	4.538	0.000	23056	0.1000	0.1038	M
1	4.918	4.918	0.000	30590	0.1000	0.1015	M
Average of Peak Amounts =							0.1028
2	4.055	4.055	0.000	14580	0.1000	0.0927	M
2	4.361	4.361	0.000	8431	0.1000	0.0908	M
2	4.497	4.497	0.000	20454	0.1000	0.0955	M
2	4.814	4.814	0.000	16661	0.1000	0.0910	
Average of Peak Amounts =							0.0925
RPD = 10.50							

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.235	6.235	0.000	8492	0.002500	0.002446	
2	5.687	5.687	0.000	6548	0.002500	0.002478	

RPD = 1.29

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:56

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D

Injection Date: 01-Aug-2015 14:13:48

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 3

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

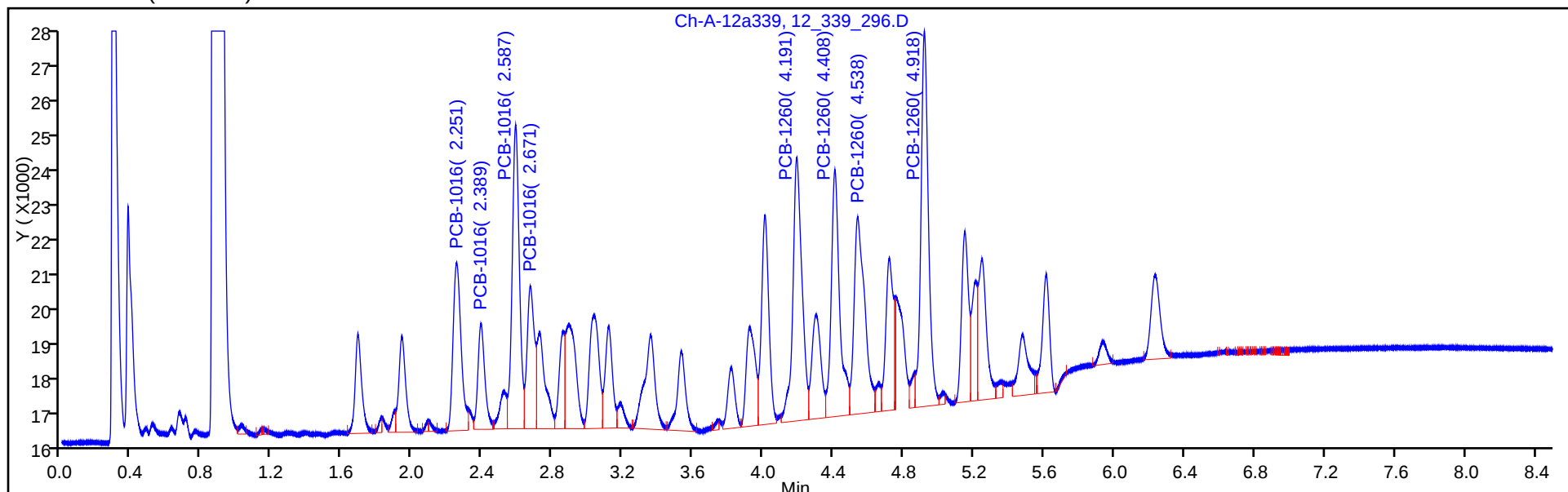
Dil. Factor: 1.0000

ALS Bottle#: 0

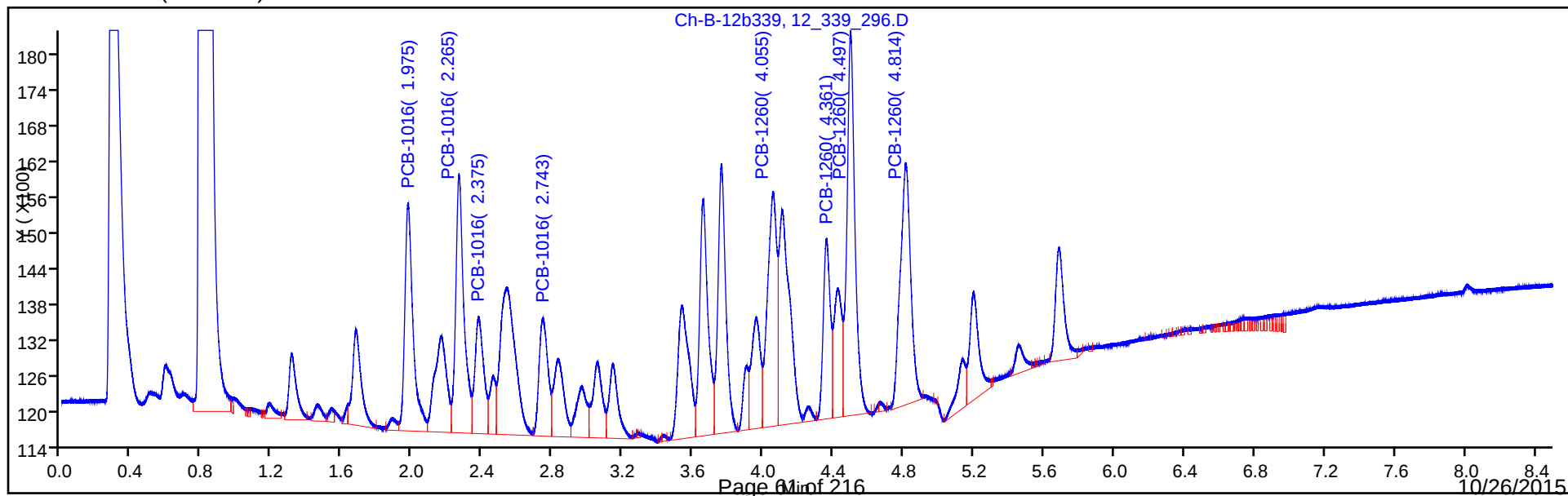
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D

Injection Date: 01-Aug-2015 14:13:48

Instrument ID: HP5890-12

Lims ID: IC 3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

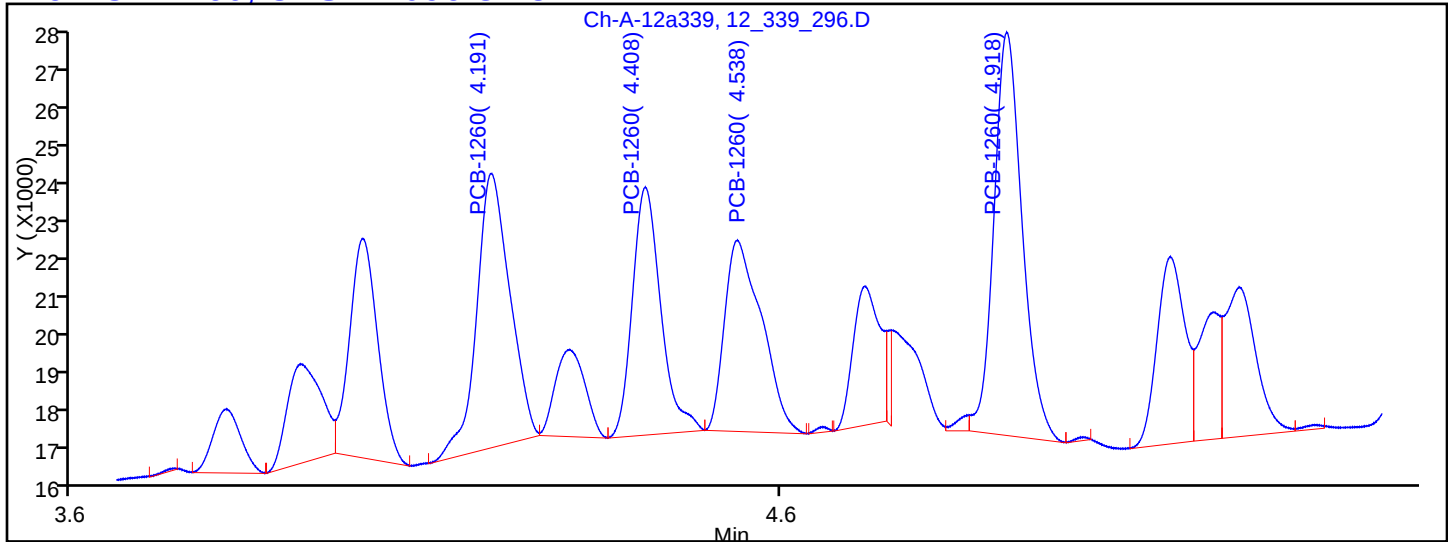
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

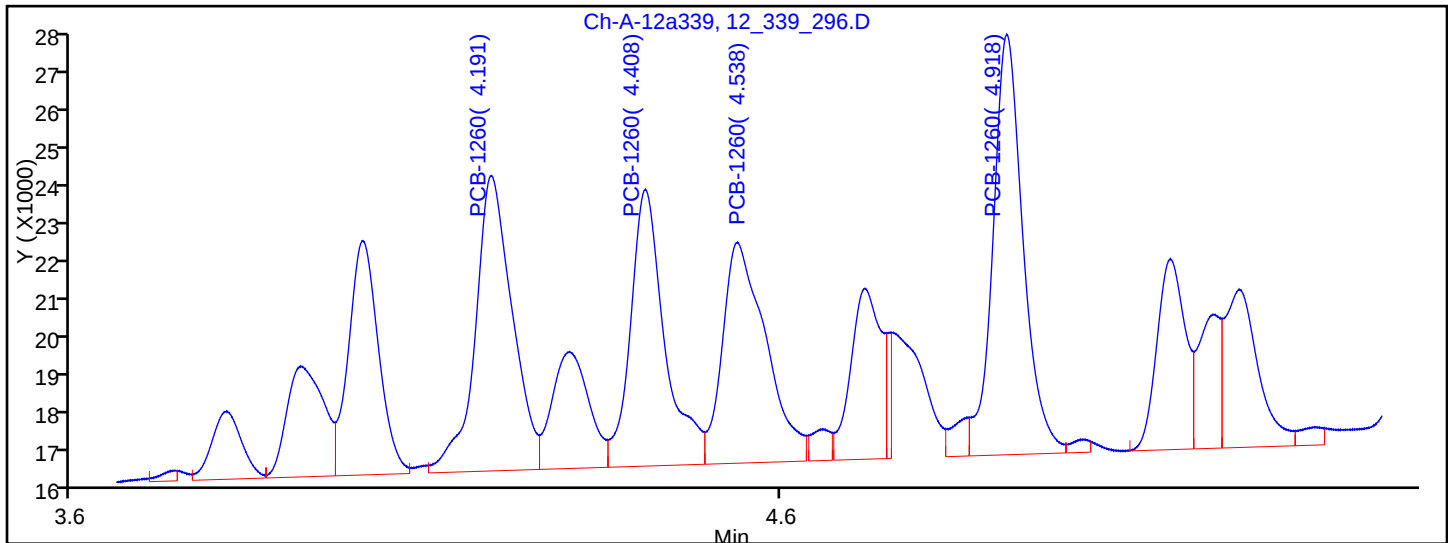
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.191	Response = 21926	M
RT = 4.408	Response = 16962	M
RT = 4.538	Response = 17092	M
RT = 4.918	Response = 27518	M



Manual Integration Results

RT = 4.191	Response = 26362	M
RT = 4.408	Response = 22845	M
RT = 4.538	Response = 23056	M
RT = 4.918	Response = 30590	M

Reviewer: eversd, 03-Aug-2015 11:07:50

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 14:28:46 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:58 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:08:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene M

1	1.689	1.687	0.002	3550	0.001250	0.001265	M
2	1.311	1.310	0.001	2002	0.001250	0.001332	

RPD = 5.12

6 PCB-1016 M

1	2.249	2.251	-0.002	7544	0.0500	0.0529	M
1	2.389	2.389	0.000	4350	0.0500	0.0523	M
1	2.586	2.587	-0.001	12565	0.0500	0.0526	M
1	2.671	2.671	0.000	6391	0.0500	0.0618	M

Average of Peak Amounts = 0.0549

2	1.973	1.975	-0.002	6171	0.0500	0.0517	M
2	2.263	2.265	-0.002	6996	0.0500	0.0466	M
2	2.375	2.375	0.000	3320	0.0500	0.0475	M
2	2.742	2.743	-0.001	3116	0.0500	0.0426	

Average of Peak Amounts = 0.0471

RPD = 15.35

9 PCB-1260 M

1	4.190	4.191	-0.001	13617	0.0500	0.0530	M
1	4.407	4.408	-0.001	11612	0.0500	0.0525	M
1	4.535	4.538	-0.003	11774	0.0500	0.0530	M
1	4.917	4.918	-0.001	15530	0.0500	0.0515	M

Average of Peak Amounts = 0.0525

2	4.056	4.055	0.001	7136	0.0500	0.0454	M
2	4.361	4.361	0.000	4553	0.0500	0.0491	M
2	4.498	4.497	0.001	9973	0.0500	0.0466	M
2	4.811	4.814	-0.003	8798	0.0500	0.0480	M

Average of Peak Amounts = 0.0473

RPD = 10.49

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.231	6.235	-0.004	5154	0.001250	0.001485	
2	5.687	5.687	0.000	3432	0.001250	0.001299	

RPD = 13.36

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:59

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Injection Date: 01-Aug-2015 14:28:46

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

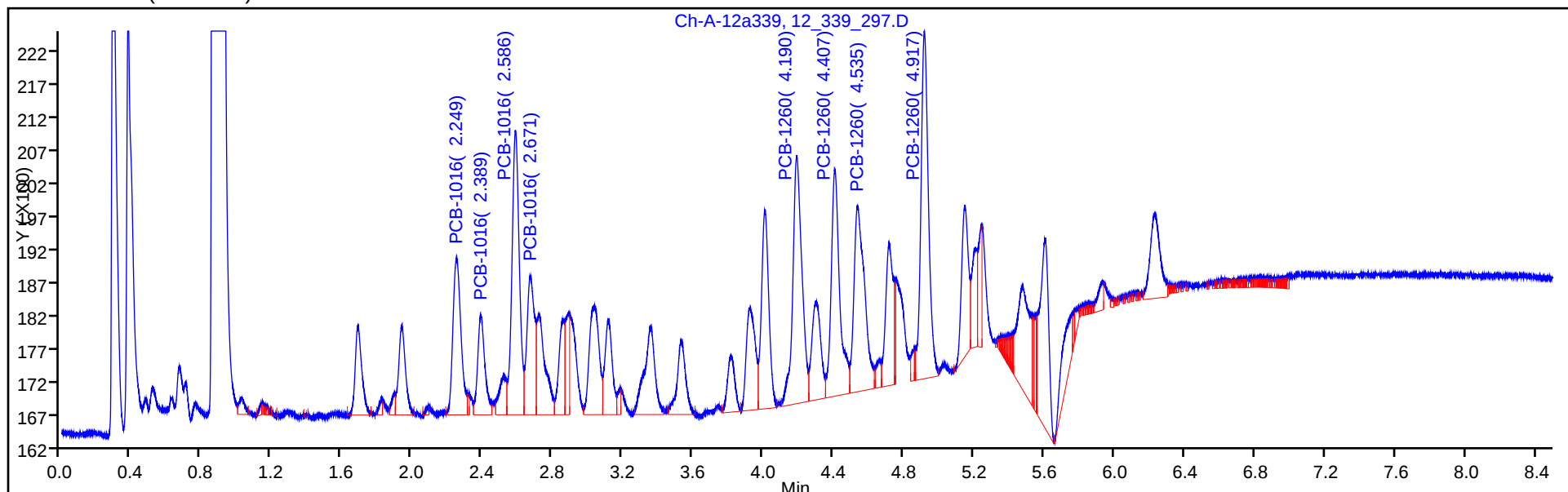
Dil. Factor: 1.0000

ALS Bottle#: 0

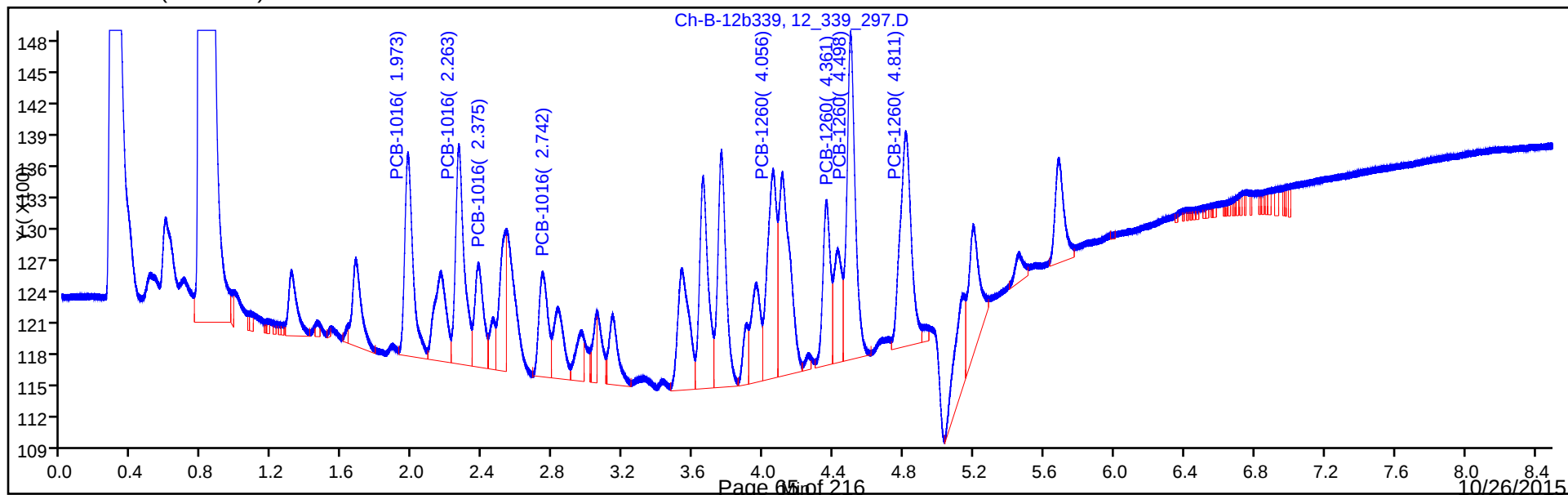
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



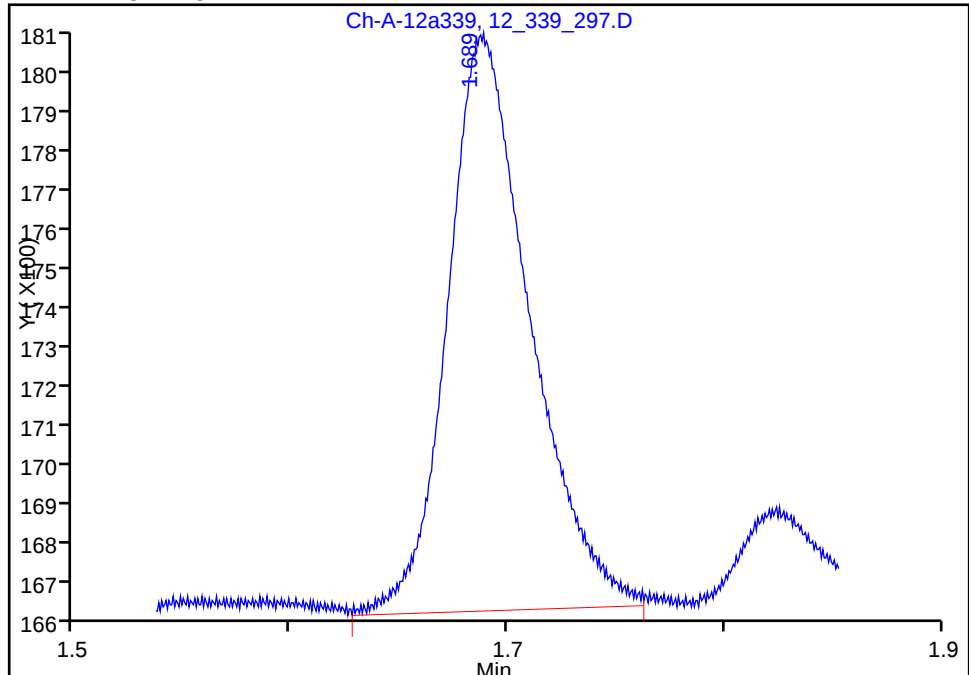
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D
Injection Date: 01-Aug-2015 14:28:46 Instrument ID: HP5890-12
Lims ID: IC 2
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

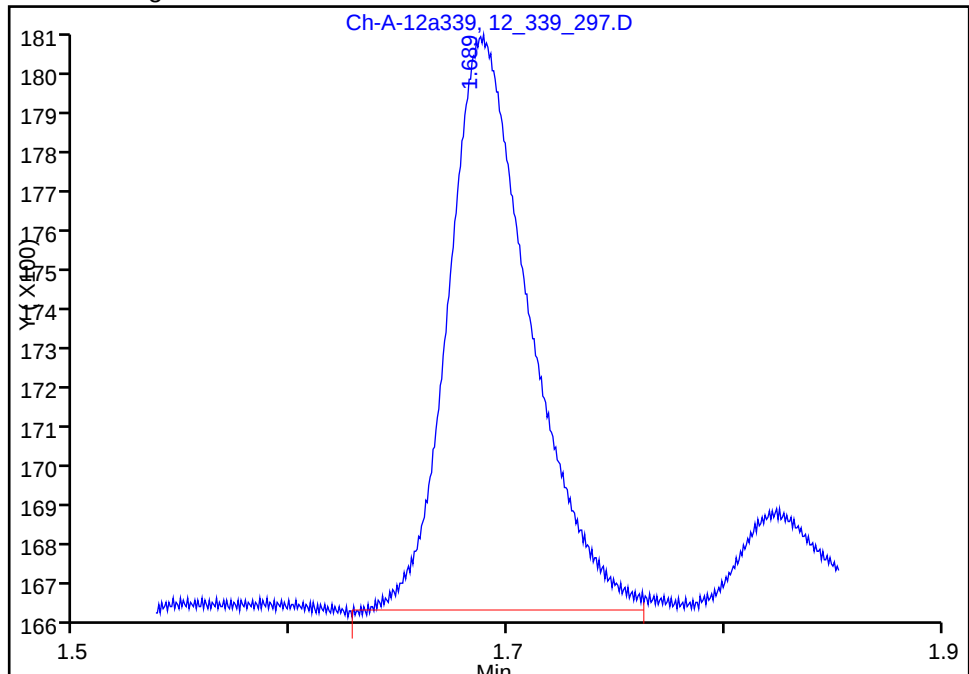
RT: 1.69
Area: 3594
Amount: 0.001279
Amount Units: ng/uL

Processing Integration Results



RT: 1.69
Area: 3550
Amount: 0.001265
Amount Units: ng/uL

Manual Integration Results



Reviewer: eversd, 03-Aug-2015 11:08:29
Audit Action: Assigned New Baseline
Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Injection Date: 01-Aug-2015 14:28:46

Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

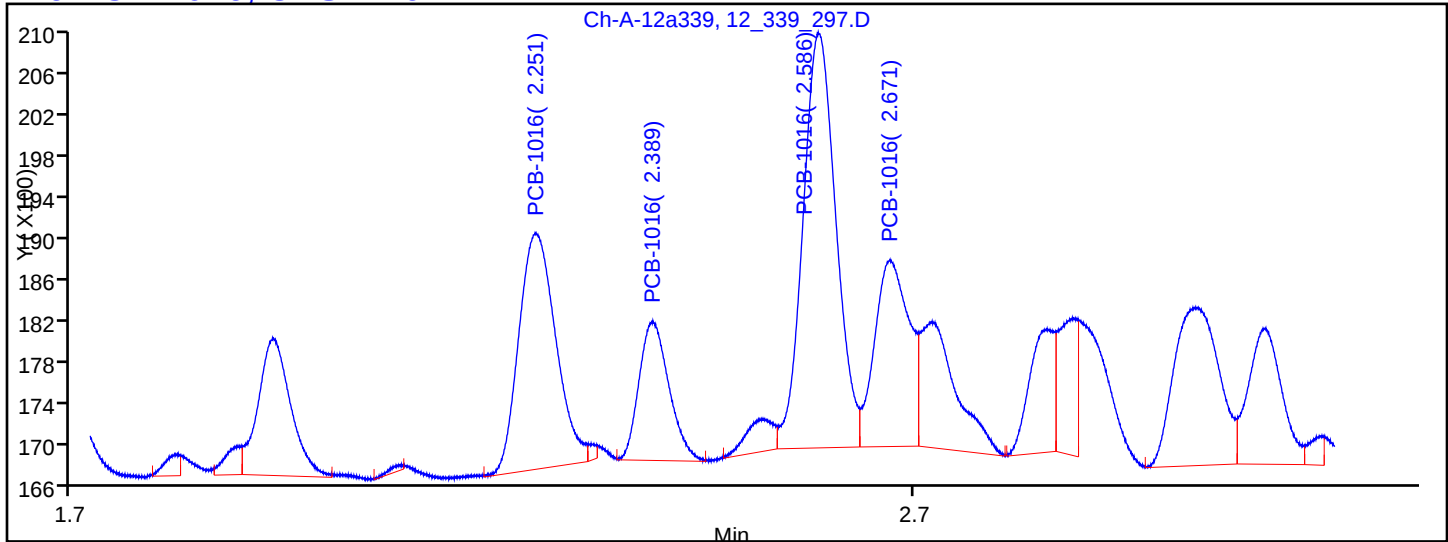
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

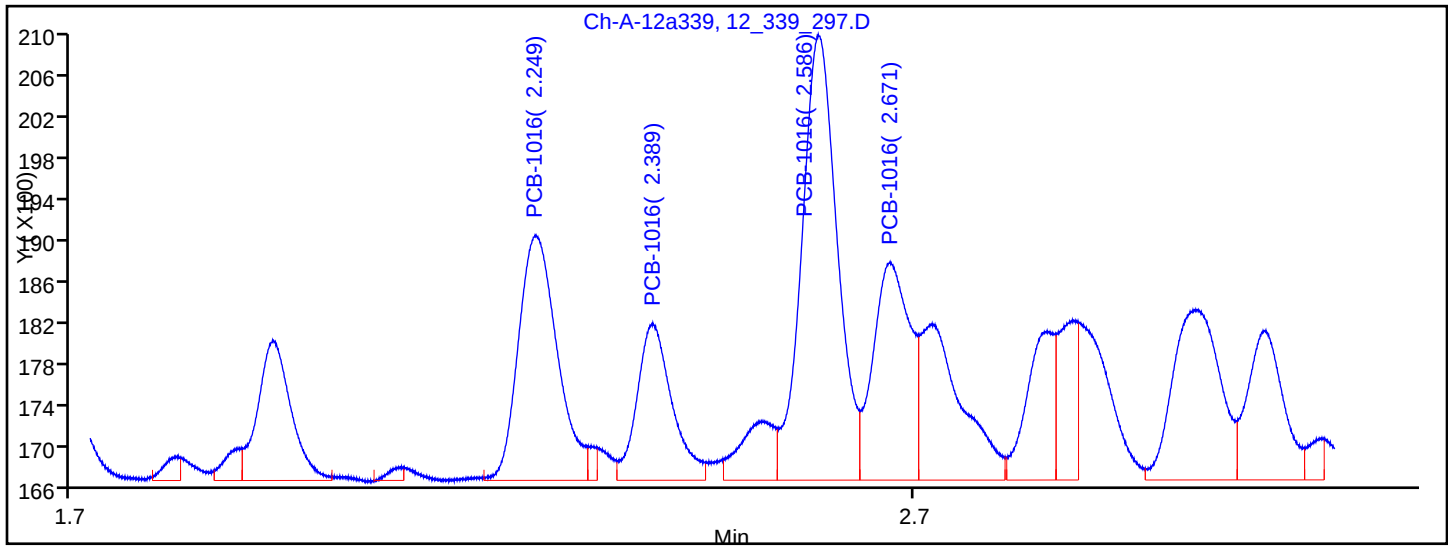
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.251	Response = 6919	M
RT = 2.389	Response = 3295	M
RT = 2.586	Response = 10875	M
RT = 2.671	Response = 5131	M



Manual Integration Results

RT = 2.249	Response = 7544	M
RT = 2.389	Response = 4350	M
RT = 2.586	Response = 12565	M
RT = 2.671	Response = 6391	M

Reviewer: eversd, 03-Aug-2015 11:08:29

Audit Action: Assigned New Baseline

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Injection Date: 01-Aug-2015 14:28:46

Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

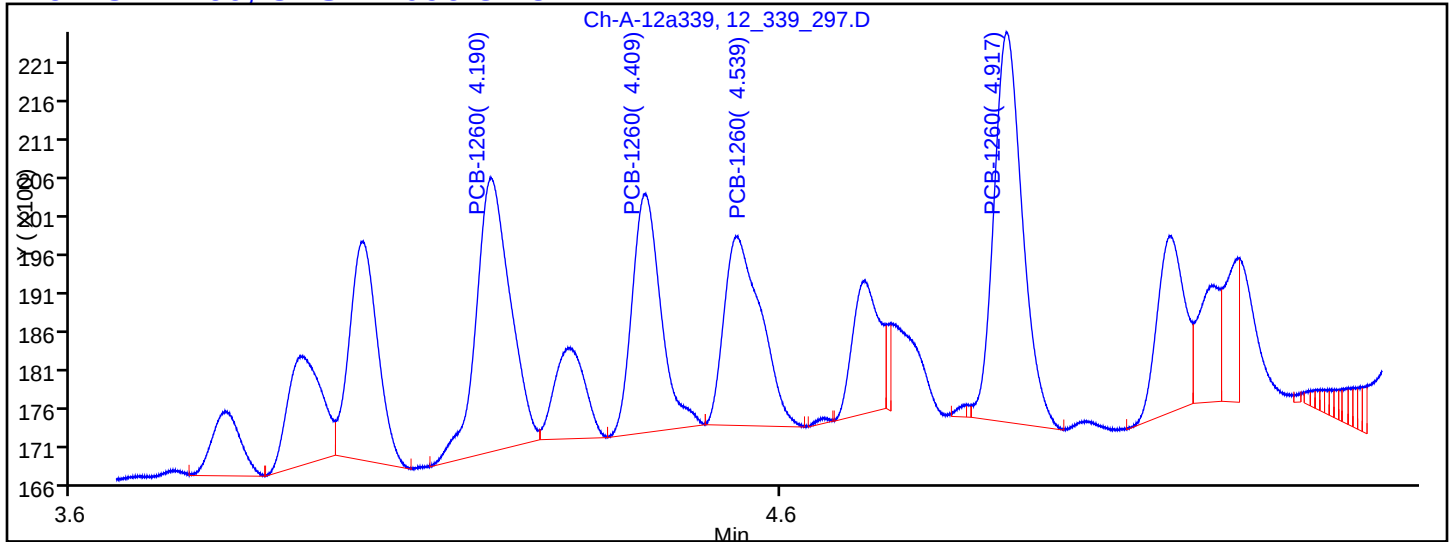
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

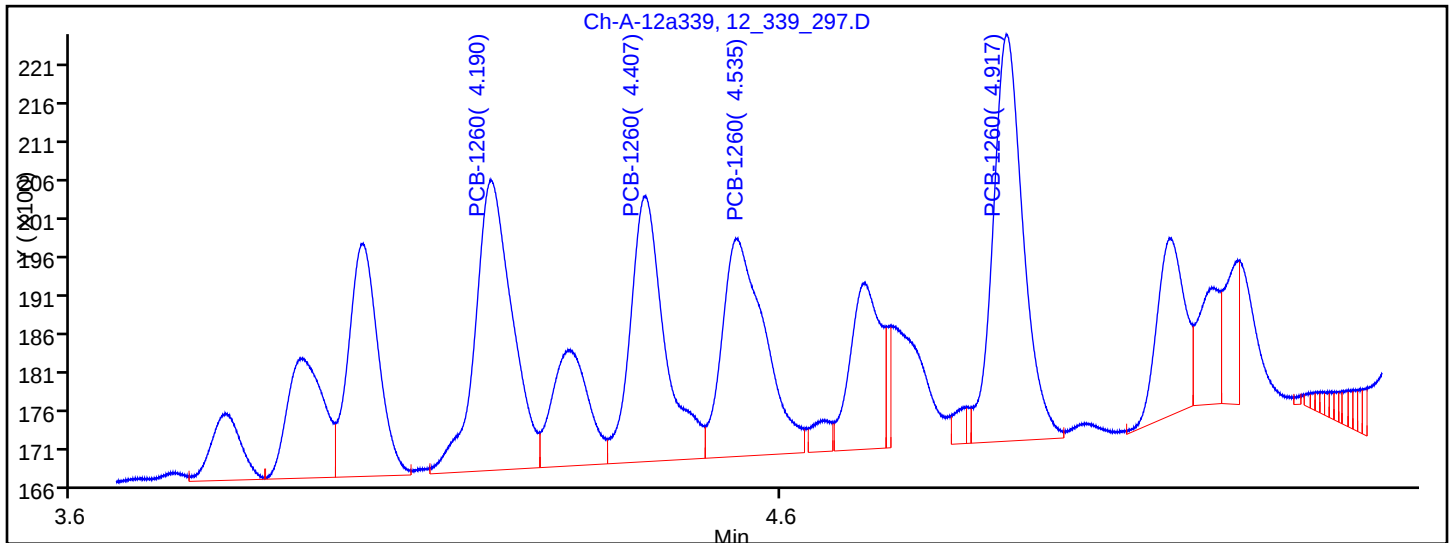
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.190	Response = 11800	M
RT = 4.409	Response = 8681	M
RT = 4.539	Response = 8834	M
RT = 4.917	Response = 14064	M



Manual Integration Results

RT = 4.190	Response = 13617	M
RT = 4.407	Response = 11612	M
RT = 4.535	Response = 11774	M
RT = 4.917	Response = 15530	M

Reviewer: eversd, 03-Aug-2015 11:08:29

Audit Action: Assigned New Baseline

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Aug-2015 14:43:45 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:03 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:09:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M

1	1.692	1.687	0.005	1520	0.000500	0.000542	
2	1.314	1.310	0.004	884	0.000500	0.000588	M

RPD = 8.20

6 PCB-1016 M

1	2.251	2.251	0.000	3642	0.0200	0.0255	M
1	2.391	2.389	0.002	2300	0.0200	0.0277	M
1	2.589	2.587	0.002	5803	0.0200	0.0243	M
1	2.684	2.671	0.013	2217	0.0200	0.0214	M

Average of Peak Amounts = 0.0247

2	1.973	1.975	-0.002	2452	0.0200	0.0205	M
2	2.263	2.265	-0.002	2829	0.0200	0.0188	M
2	2.373	2.375	-0.002	1578	0.0200	0.0226	M
2	2.745	2.743	0.002	1315	0.0200	0.0180	

Average of Peak Amounts = 0.0200

RPD = 21.28

9 PCB-1260 M

1	4.193	4.191	0.002	5921	0.0200	0.0230	M
1	4.410	4.408	0.002	4217	0.0200	0.0191	M
1	4.539	4.538	0.001	4926	0.0200	0.0222	M
1	4.920	4.918	0.002	5970	0.0200	0.0198	M

Average of Peak Amounts = 0.0210

2	4.057	4.055	0.002	3150	0.0200	0.0200	M
2	4.359	4.361	-0.002	2248	0.0200	0.0242	M
2	4.499	4.497	0.002	4027	0.0200	0.0188	M
2	4.816	4.814	0.002	3278	0.0200	0.0179	

Average of Peak Amounts = 0.0202

RPD = 3.77

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl M
1 6.233 6.235 -0.002 2145 0.000500 0.000618 M
2 5.686 5.687 -0.001 1728 0.000500 0.000654
RPD = 5.67

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:04

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 1

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

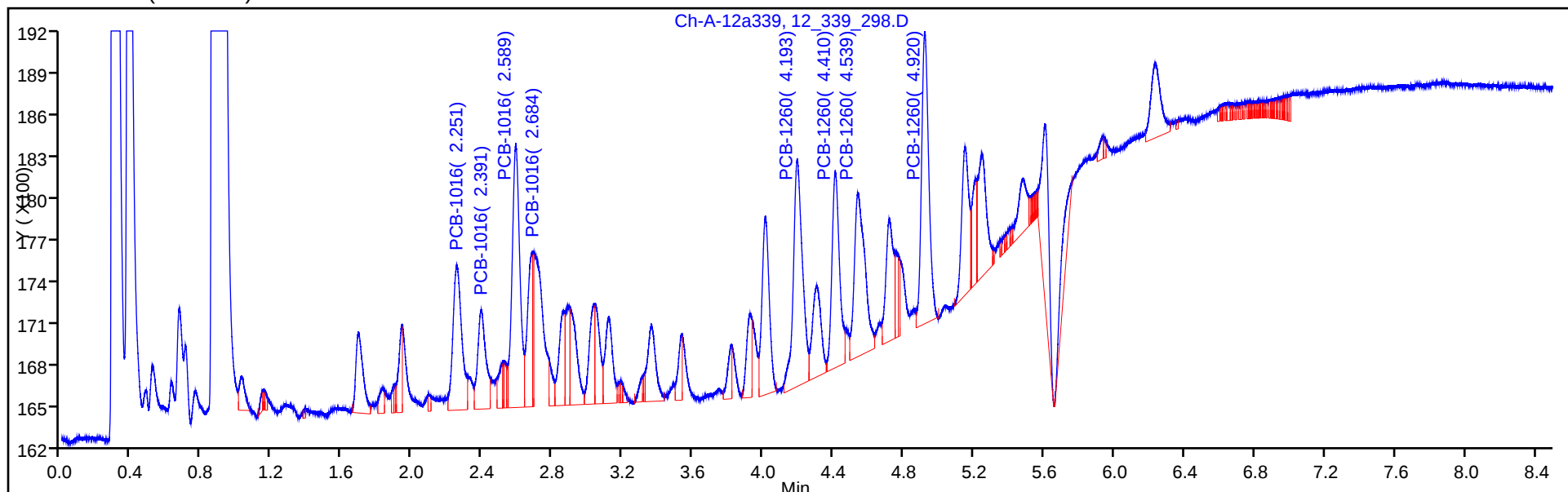
Dil. Factor: 1.0000

ALS Bottle#: 0

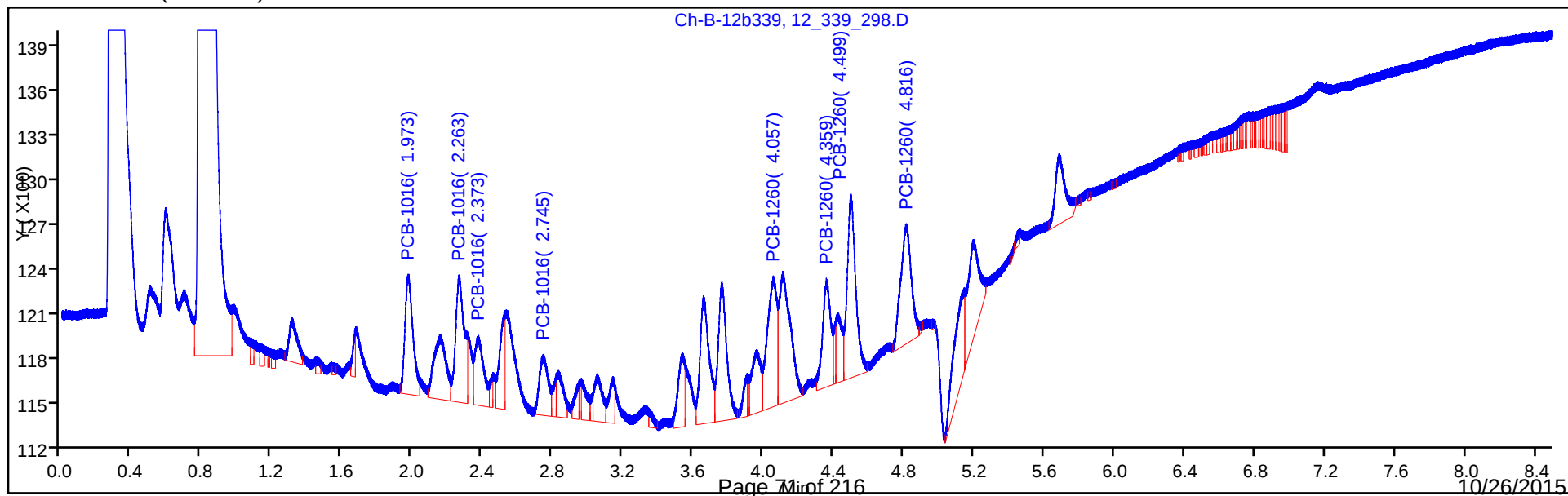
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

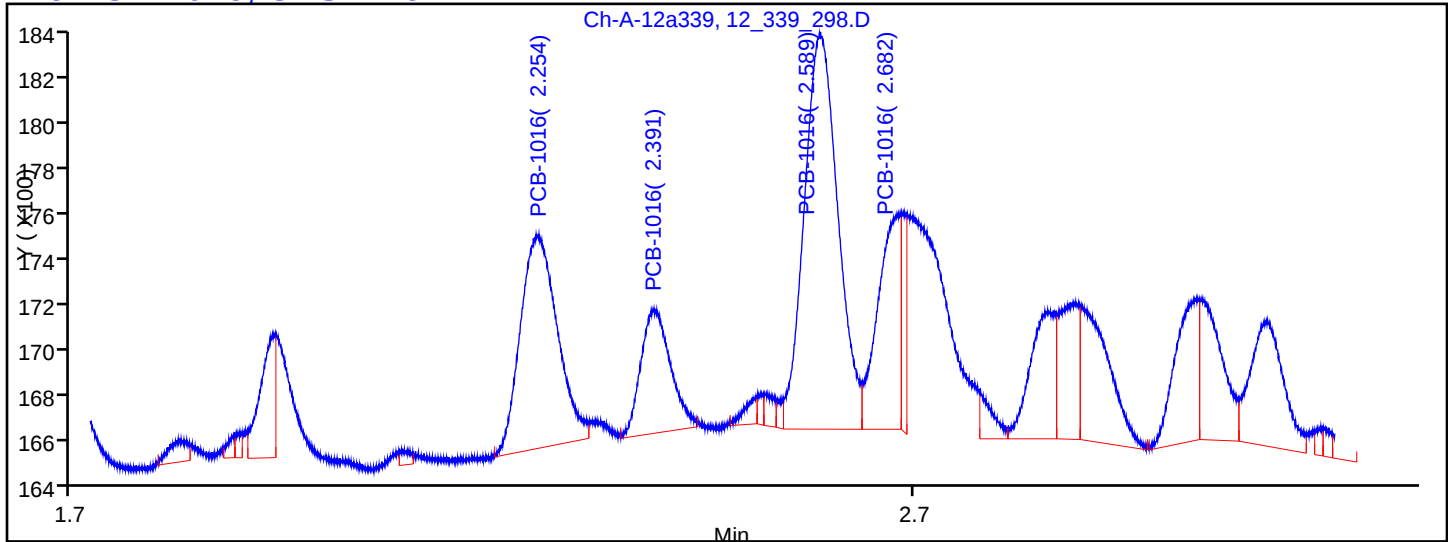
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

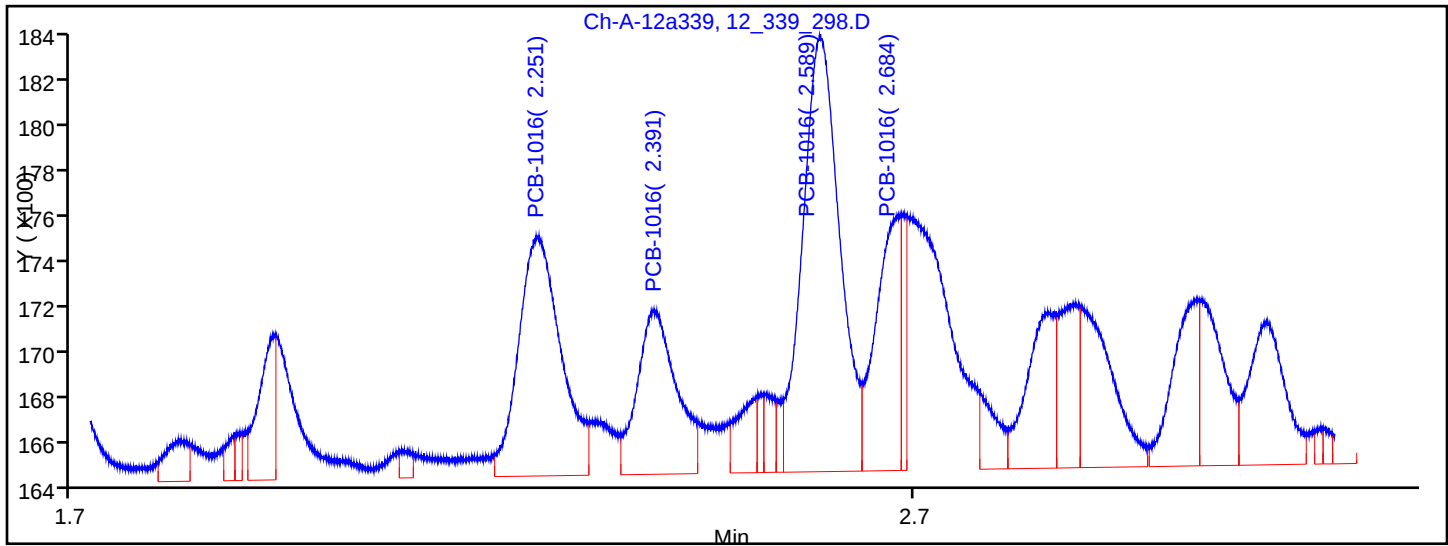
Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.254	Response = 2815	M
RT = 2.391	Response = 1311	M
RT = 2.589	Response = 4772	M
RT = 2.682	Response = 1714	M



Manual Integration Results

RT = 2.251	Response = 3642	M
RT = 2.391	Response = 2300	M
RT = 2.589	Response = 5803	M
RT = 2.684	Response = 2217	M

Reviewer: eversd, 03-Aug-2015 11:09:44

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

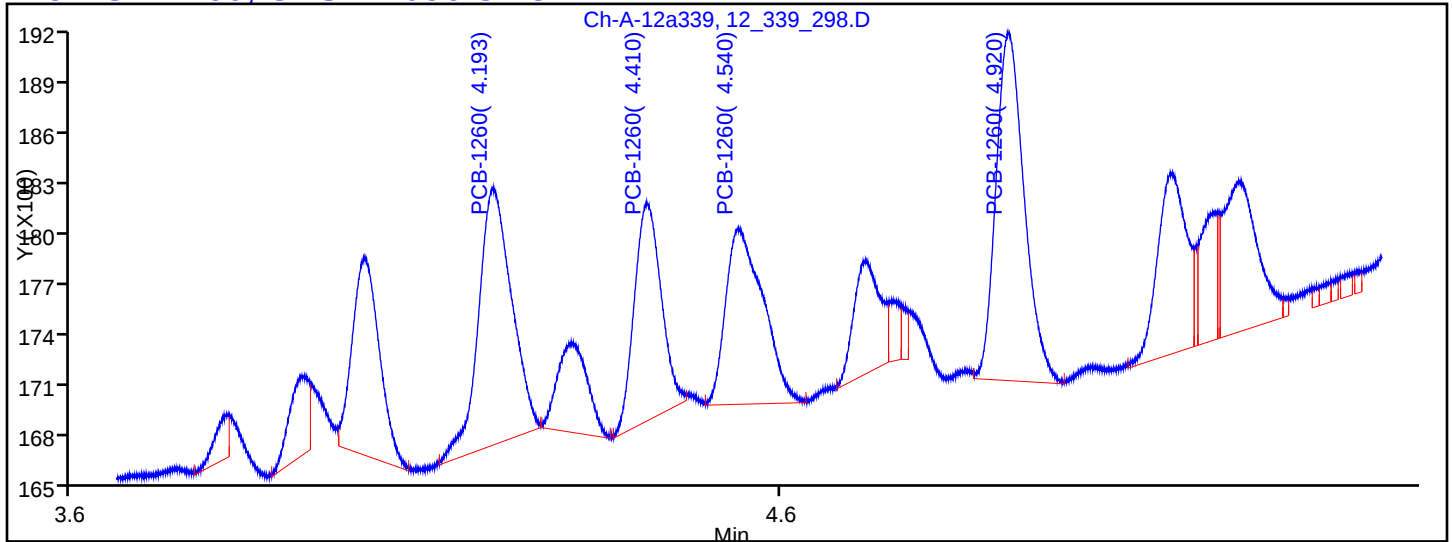
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

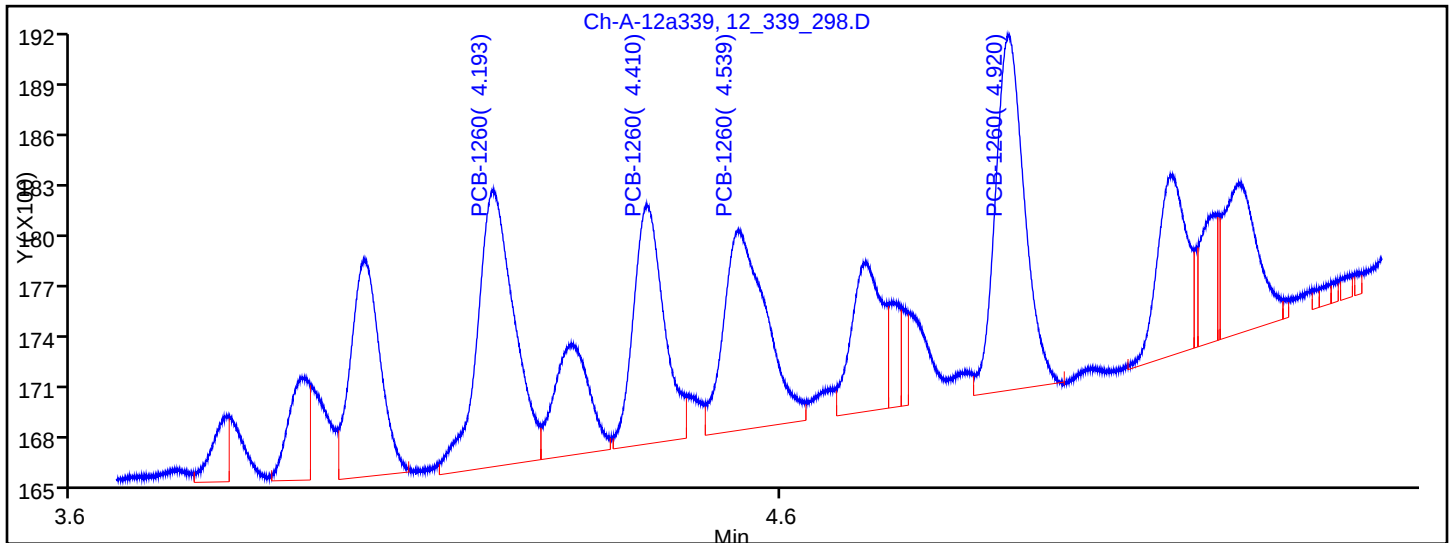
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.193	Response = 4924	M
RT = 4.410	Response = 3389	M
RT = 4.540	Response = 3797	M
RT = 4.920	Response = 5694	M



Manual Integration Results

RT = 4.193	Response = 5921	M
RT = 4.410	Response = 4217	M
RT = 4.539	Response = 4926	M
RT = 4.920	Response = 5970	M

Reviewer: eversd, 03-Aug-2015 11:09:44

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: hp12_pcb

Limit Group:

GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

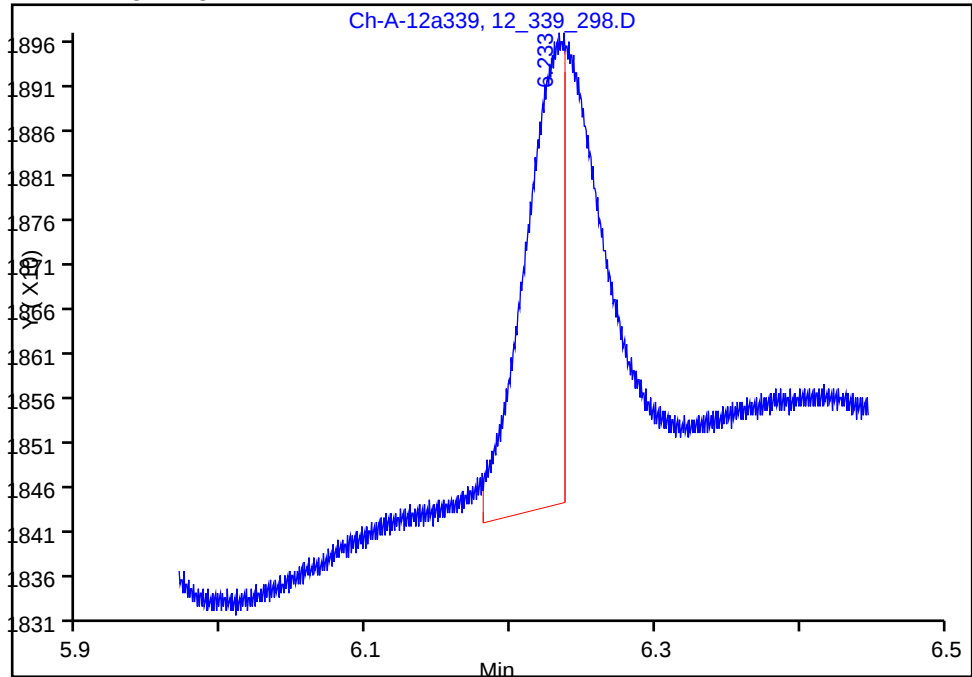
Detector

Ch-A-7A136

\$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

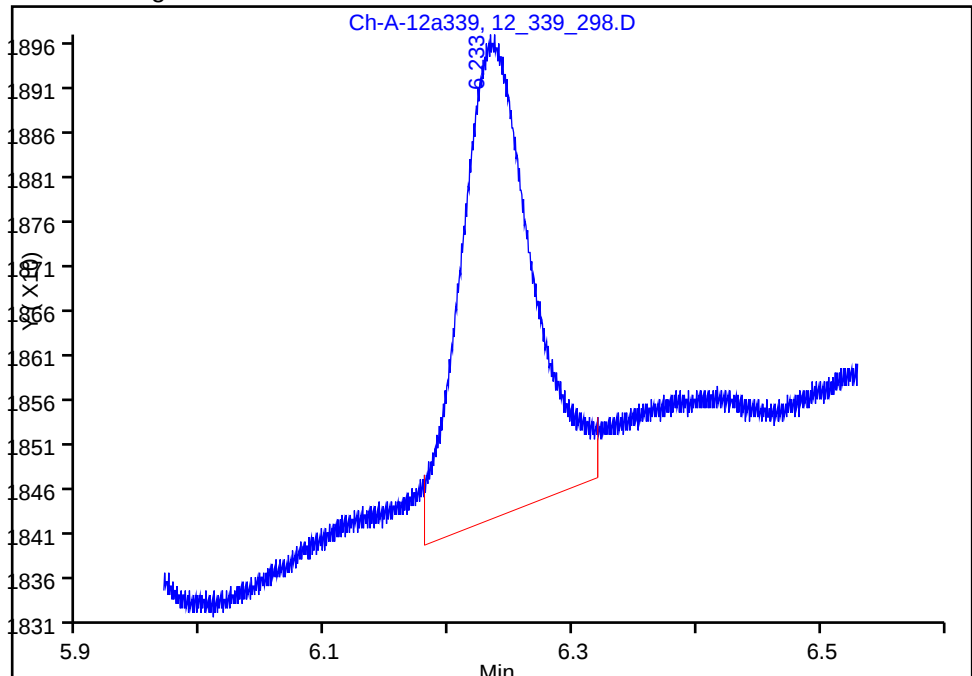
RT: 6.23
Area: 968
Amount: 0.000309
Amount Units: ng/uL

Processing Integration Results



RT: 6.23
Area: 2145
Amount: 0.000618
Amount Units: ng/uL

Manual Integration Results



Reviewer: eversd, 03-Aug-2015 11:09:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 13:14 Calibration End Date: 08/01/2015 14:43 Calibration ID: 24328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/8	12_339_298.D
Level 2	IC 480-256564/7	12_339_297.D
Level 3	IC 480-256564/6	12_339_296.D
Level 4	IC 480-256564/5	12_339_295.D
Level 5	IC 480-256564/4	12_339_294.D
Level 6	IC 480-256564/3	12_339_293.D
Level 7	IC 480-256564/2	12_339_292.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	1.973	1.973	1.975	1.975	1.976	1.971	1.967				1.945 - 2.005	1.973
PCB-1016 Peak 2	2.263	2.263	2.265	2.269	2.266	2.263	2.259				2.235 - 2.295	2.264
PCB-1016 Peak 3	2.373	2.375	2.375	2.379	2.379	2.375	2.372				2.345 - 2.405	2.375
PCB-1016 Peak 4	2.745	2.742	2.743	2.745	2.744	2.739	2.735				2.713 - 2.773	2.742
PCB-1260 Peak 1	4.057	4.056	4.055	4.053	4.054	4.053	4.056				4.025 - 4.085	4.055
PCB-1260 Peak 2	4.359	4.361	4.361	4.359	4.359	4.357	4.358				4.331 - 4.391	4.359
PCB-1260 Peak 3	4.499	4.498	4.497	4.496	4.495	4.493	4.495				4.467 - 4.527	4.496
PCB-1260 Peak 4	4.816	4.811	4.814	4.810	4.810	4.810	4.810				4.784 - 4.844	4.812
Tetrachloro-m-xylene	1.314	1.311	1.310	1.310	1.310	1.311	1.308				1.280 - 1.340	1.311
DCB Decachlorobiphenyl	5.686	5.687	5.687	5.683	5.682	5.683	5.683				5.657 - 5.717	5.684

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 13:14 Calibration End Date: 08/01/2015 14:43 Calibration ID: 24328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/8	12_339_298.D
Level 2	IC 480-256564/7	12_339_297.D
Level 3	IC 480-256564/6	12_339_296.D
Level 4	IC 480-256564/5	12_339_295.D
Level 5	IC 480-256564/4	12_339_294.D
Level 6	IC 480-256564/3	12_339_293.D
Level 7	IC 480-256564/2	12_339_292.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	122600 121630	123420 112700	125400 109034	121385	Ave		119452.643				5.1		20.0			
PCB-1016 Peak 2	141450 154010	139920 162627	141530 171653	140595	Ave		150254.929				8.5		20.0			
PCB-1016 Peak 3	78900 68388	66400 69030	68200 70981	67010	Ave		69844.1429				6.1		20.0			
PCB-1016 Peak 4	65750 77778	62320 80910	69830 84396	71600	Ave		73226.2143				11.1		20.0			
PCB-1260 Peak 1	157500 162350	142720 168339	145800 174767	148910	Ave		157197.929				7.6		20.0			
PCB-1260 Peak 2	112400 90172	91060 91614	84310 93605	86455	Ave		92802.2143				9.9		20.0			
PCB-1260 Peak 3	201350 221860	199460 226538	204540 230381	215050	Ave		214168.357				5.9		20.0			
PCB-1260 Peak 4	163900 189482	175960 197760	166610 205330	182795	Ave		183119.500				8.5		20.0			
Tetrachloro-m-xylene	1768000 1342960	1601600 1481360	1330400 1754600	1243400	Ave		1503188.57				14.0		20.0			
DCB Decachlorobiphenyl	3456000 2447760	2745600 2369880	2619200 2351680	2508200	Ave		2642617.14				14.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 13:14 Calibration End Date: 08/01/2015 14:43 Calibration ID: 24328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/8	12_339_298.D
Level 2	IC 480-256564/7	12_339_297.D
Level 3	IC 480-256564/6	12_339_296.D
Level 4	IC 480-256564/5	12_339_295.D
Level 5	IC 480-256564/4	12_339_294.D
Level 6	IC 480-256564/3	12_339_293.D
Level 7	IC 480-256564/2	12_339_292.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	2452 112700	6171 218067	12540	24277	60815	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	2829 162627	6996 343305	14153	28119	77005	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	1578 69030	3320 141962	6820	13402	34194	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	1315 80910	3116 168791	6983	14320	38889	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	3150 168339	7136 349533	14580	29782	81175	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	2248 91614	4553 187209	8431	17291	45086	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	4027 226538	9973 460761	20454	43010	110930	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	3278 197760	8798 410659	16661	36559	94741	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	884 37034	2002 87730	3326	6217	16787	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	1728 59247	3432 117584	6548	12541	30597	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_292.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Aug-2015 13:14:05 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:44 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 11:04:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.685	1.687	-0.002	138093	0.0500	0.0492	
2	1.308	1.310	-0.002	87730	0.0500	0.0584	
						RPD = 17.00	

6 PCB-1016

1	2.245	2.251	-0.006	223333	2.00	1.56	a
1	2.385	2.389	-0.004	140758	2.00	1.69	
1	2.582	2.587	-0.005	422766	2.00	1.77	
1	2.665	2.671	-0.006	171288	2.00	1.66	
Average of Peak Amounts =						1.67	
2	1.967	1.975	-0.008	218067	2.00	1.83	a
2	2.259	2.265	-0.006	343305	2.00	2.28	
2	2.372	2.375	-0.003	141962	2.00	2.03	
2	2.735	2.743	-0.008	168791	2.00	2.31	
Average of Peak Amounts =						2.11	
						RPD = 23.30	

9 PCB-1260

1	4.189	4.191	-0.002	449085	2.00	1.75	
1	4.407	4.408	-0.001	421870	2.00	1.91	
1	4.535	4.538	-0.003	397263	2.00	1.79	
1	4.916	4.918	-0.002	570794	2.00	1.89	a
Average of Peak Amounts =						1.83	
2	4.056	4.055	0.001	349533	2.00	2.22	a
2	4.358	4.361	-0.003	187209	2.00	2.02	a
2	4.495	4.497	-0.002	460761	2.00	2.15	a
2	4.810	4.814	-0.004	410659	2.00	2.24	a
Average of Peak Amounts =						2.16	
						RPD = 16.26	

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_292.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.232	6.235	-0.003	147117	0.0500	0.0424	
2	5.683	5.687	-0.004	117584	0.0500	0.0445	

RPD = 4.88

Reagents:

1660sur/is2.0_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:45

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_292.D

Injection Date: 01-Aug-2015 13:14:05

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 7

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

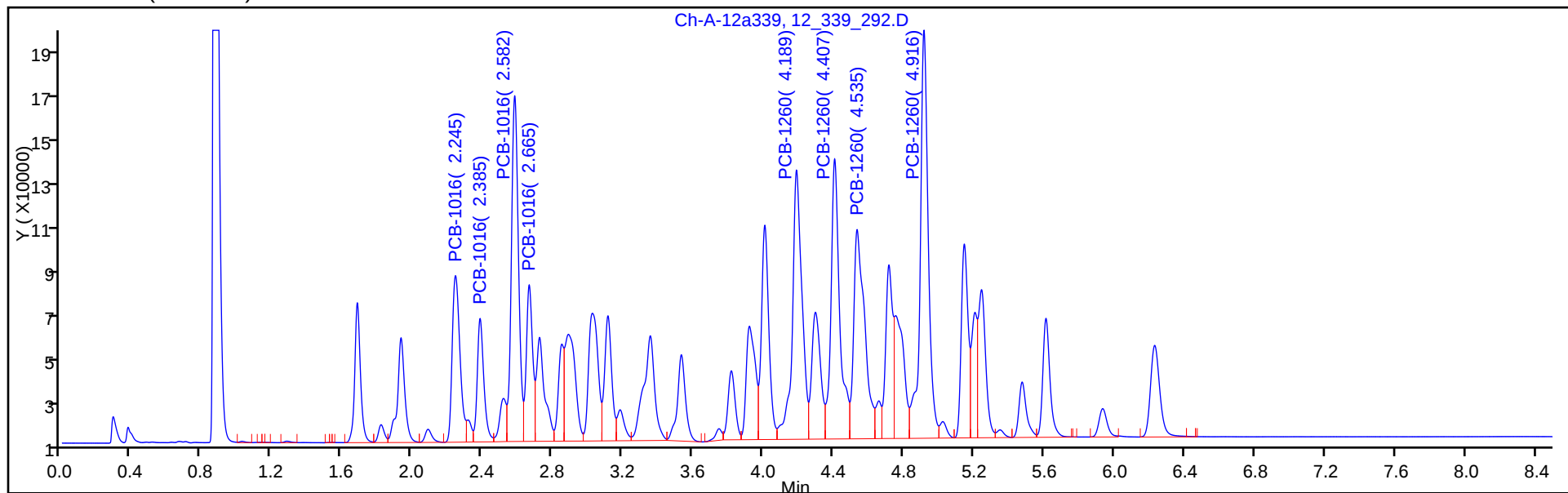
Dil. Factor: 1.0000

ALS Bottle#: 0

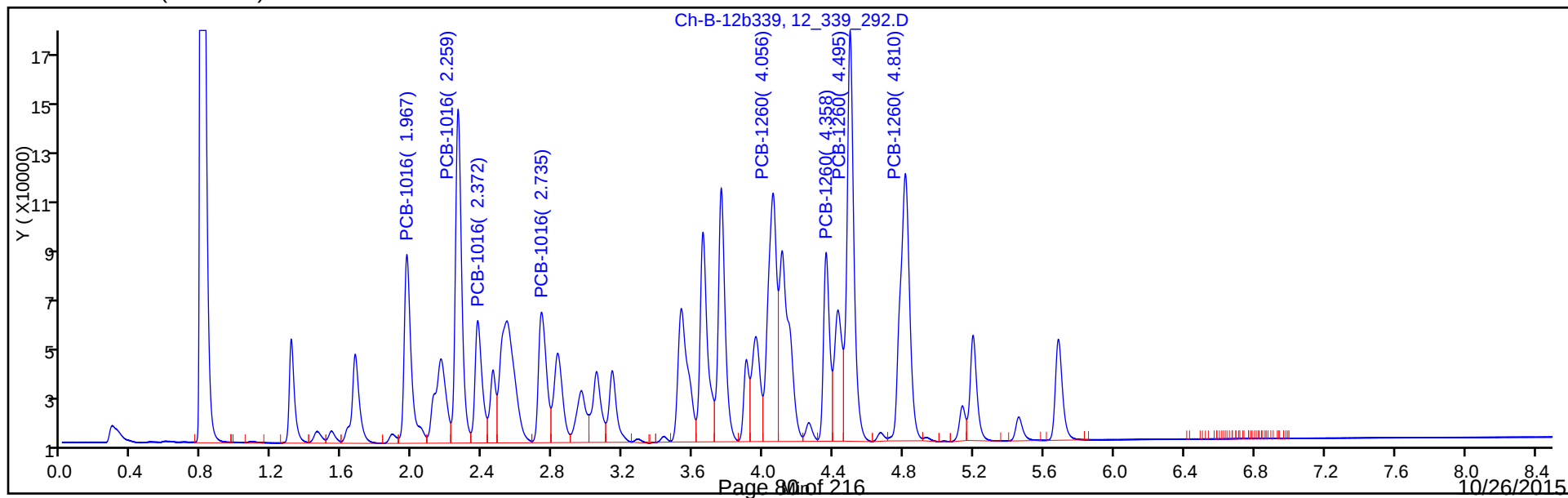
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-Aug-2015 13:29:01 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:46 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 11:06:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M

1	1.687	1.687	0.000	67507	0.0250	0.0241	M
2	1.311	1.310	0.001	37034	0.0250	0.0246	

RPD = 2.36

6 PCB-1016 M

1	2.249	2.251	-0.002	123446	1.00	0.8649	M
1	2.387	2.389	-0.002	73031	1.00	0.8783	M
1	2.585	2.587	-0.002	217812	1.00	0.9124	M
1	2.668	2.671	-0.003	89290	1.00	0.8636	M

Average of Peak Amounts = 0.8798

2	1.971	1.975	-0.004	112700	1.00	0.9435	
2	2.263	2.265	-0.002	162627	1.00	1.08	
2	2.375	2.375	0.000	69030	1.00	0.9883	
2	2.739	2.743	-0.004	80910	1.00	1.10	

Average of Peak Amounts = 1.03

RPD = 15.71

9 PCB-1260 M

1	4.187	4.191	-0.004	237940	1.00	0.9254	M
1	4.405	4.408	-0.003	217627	1.00	0.9841	M
1	4.533	4.538	-0.005	207002	1.00	0.9319	M
1	4.915	4.918	-0.003	294371	1.00	0.9765	M

Average of Peak Amounts = 0.9545

2	4.053	4.055	-0.002	168339	1.00	1.07	
2	4.357	4.361	-0.004	91614	1.00	0.9872	
2	4.493	4.497	-0.004	226538	1.00	1.06	
2	4.810	4.814	-0.004	197760	1.00	1.08	

Average of Peak Amounts = 1.05

RPD = 9.43

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.232	6.235	-0.003	75450	0.0250	0.0217	
2	5.683	5.687	-0.004	59247	0.0250	0.0224	

RPD = 3.11

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00003

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:48

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_293.D

Injection Date: 01-Aug-2015 13:29:01

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 6

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

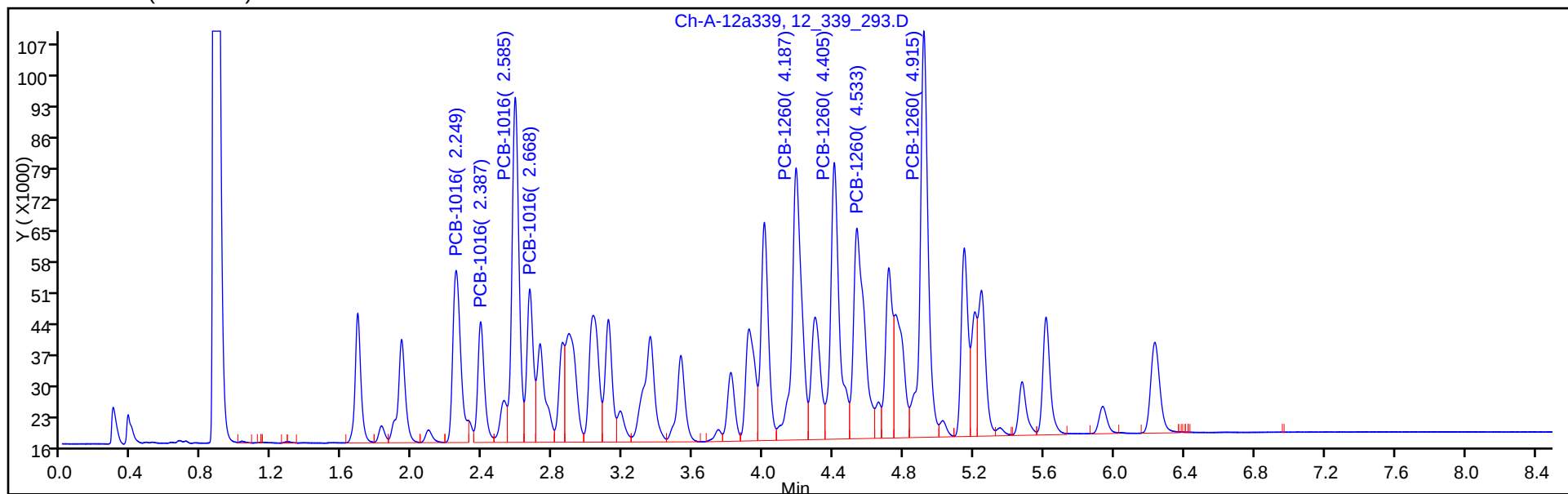
Dil. Factor: 1.0000

ALS Bottle#: 0

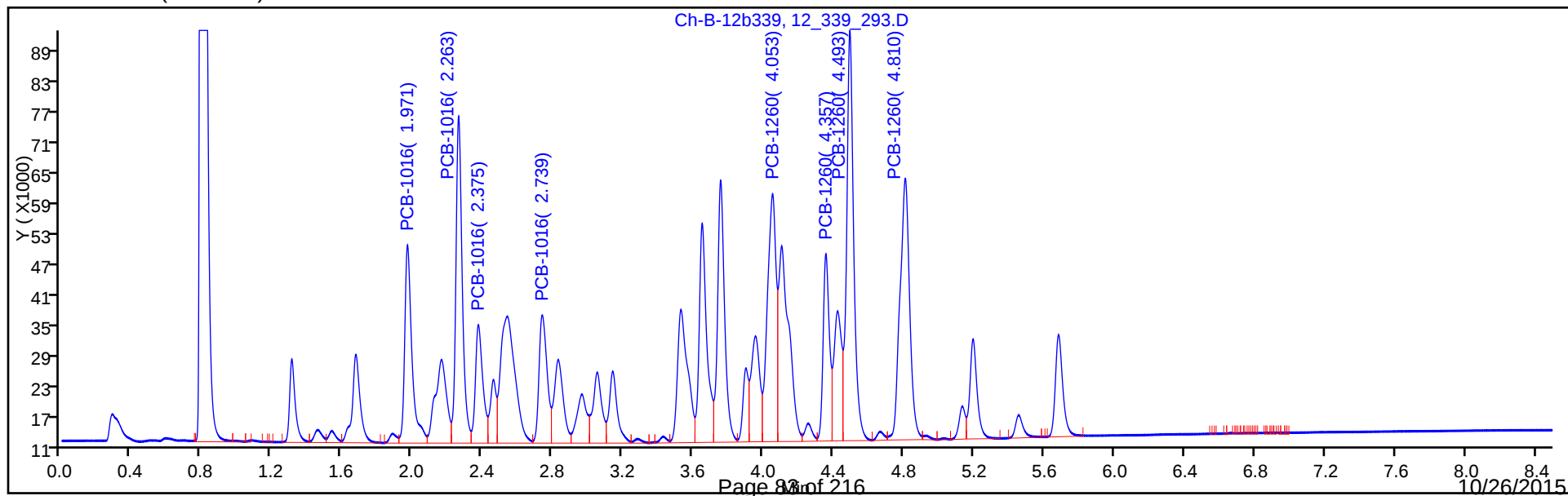
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_294.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-Aug-2015 13:43:59 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:49 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.689	1.689	0.000	34255	0.0125	0.0122
2	1.310	1.310	0.000	16787	0.0125	0.0112

RPD = 8.91

6 PCB-1016

1	2.251	2.251	0.000	70222	0.5000	0.4920
1	2.391	2.391	0.000	37915	0.5000	0.4560
1	2.588	2.588	0.000	112946	0.5000	0.4731
1	2.671	2.671	0.000	46641	0.5000	0.4511

Average of Peak Amounts = 0.4681

2	1.976	1.976	0.000	60815	0.5000	0.5091
2	2.266	2.266	0.000	77005	0.5000	0.5125
2	2.379	2.379	0.000	34194	0.5000	0.4896
2	2.744	2.744	0.000	38889	0.5000	0.5311

Average of Peak Amounts = 0.5106

RPD = 8.69

9 PCB-1260

1	4.189	4.189	0.000	120829	0.5000	0.4699
1	4.407	4.407	0.000	109256	0.5000	0.4941
1	4.535	4.535	0.000	105884	0.5000	0.4767
1	4.916	4.916	0.000	150626	0.5000	0.4997

Average of Peak Amounts = 0.4851

2	4.054	4.054	0.000	81175	0.5000	0.5164
2	4.359	4.359	0.000	45086	0.5000	0.4858
2	4.495	4.495	0.000	110930	0.5000	0.5180
2	4.810	4.810	0.000	94741	0.5000	0.5174

Average of Peak Amounts = 0.5094

RPD = 4.89

\$ 12 DCB Decachlorobiphenyl

1	6.231	6.231	0.000	39770	0.0125	0.0115
2	5.682	5.682	0.000	30597	0.0125	0.0116

Reagents:

1660sur/is0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:50

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_294.D

Injection Date: 01-Aug-2015 13:43:59

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 5

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

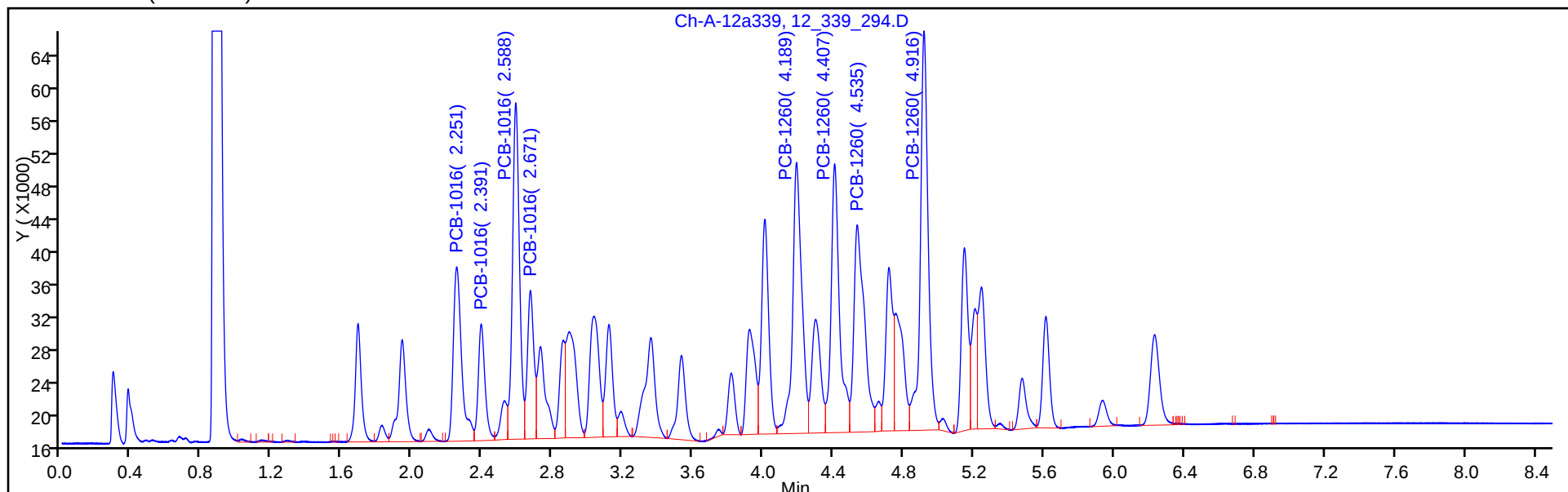
Dil. Factor: 1.0000

ALS Bottle#: 0

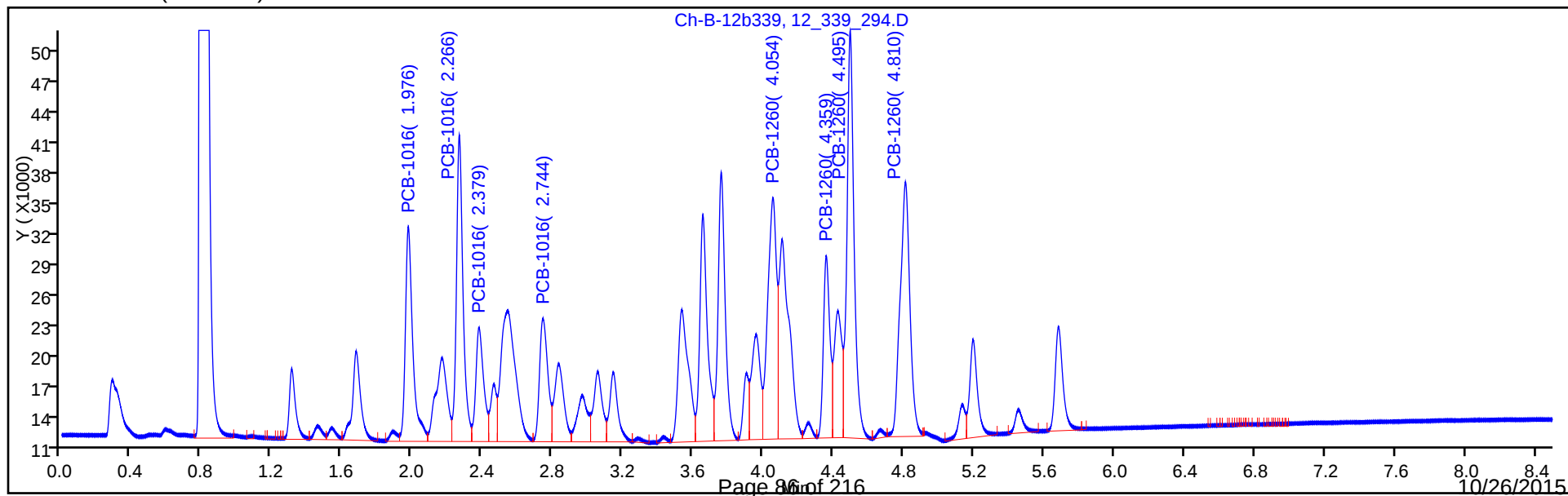
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Aug-2015 13:58:50 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:52 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:07:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.688	1.689	-0.001	13547	0.005000	0.004829	
2	1.310	1.310	0.000	6217	0.005000	0.004136	
RPD = 15.45							

6 PCB-1016

1	2.255	2.251	0.004	28555	0.2000	0.2001	M
1	2.391	2.391	0.000	16027	0.2000	0.1927	M
1	2.589	2.588	0.001	47074	0.2000	0.1972	M
1	2.671	2.671	0.000	20261	0.2000	0.1960	M
Average of Peak Amounts =							0.1965
2	1.975	1.976	-0.001	24277	0.2000	0.2032	M
2	2.269	2.266	0.003	28119	0.2000	0.1871	M
2	2.379	2.379	0.000	13402	0.2000	0.1919	M
2	2.745	2.744	0.001	14320	0.2000	0.1956	M
Average of Peak Amounts =							0.1945
RPD = 1.04							

9 PCB-1260

1	4.189	4.189	0.000	52752	0.2000	0.2052	M
1	4.407	4.407	0.000	45863	0.2000	0.2074	M
1	4.535	4.535	0.000	45040	0.2000	0.2028	M
1	4.916	4.916	0.000	62812	0.2000	0.2084	M
Average of Peak Amounts =							0.2059
2	4.053	4.054	-0.001	29782	0.2000	0.1895	M
2	4.359	4.359	0.000	17291	0.2000	0.1863	M
2	4.496	4.495	0.001	43010	0.2000	0.2008	M
2	4.810	4.810	0.000	36559	0.2000	0.1996	M
Average of Peak Amounts =							0.1941
RPD = 5.93							

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.232	6.231	0.001	16748	0.005000	0.004824	
2	5.683	5.682	0.001	12541	0.005000	0.004746	

RPD = 1.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:53

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Injection Date: 01-Aug-2015 13:58:50

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

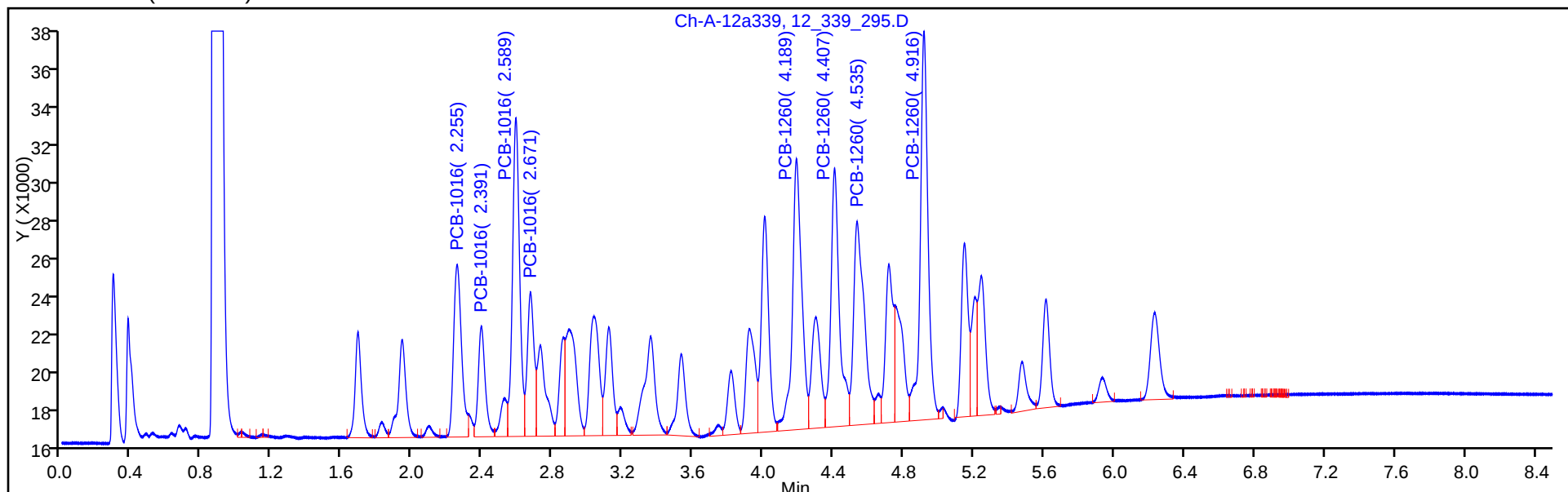
Dil. Factor: 1.0000

ALS Bottle#: 0

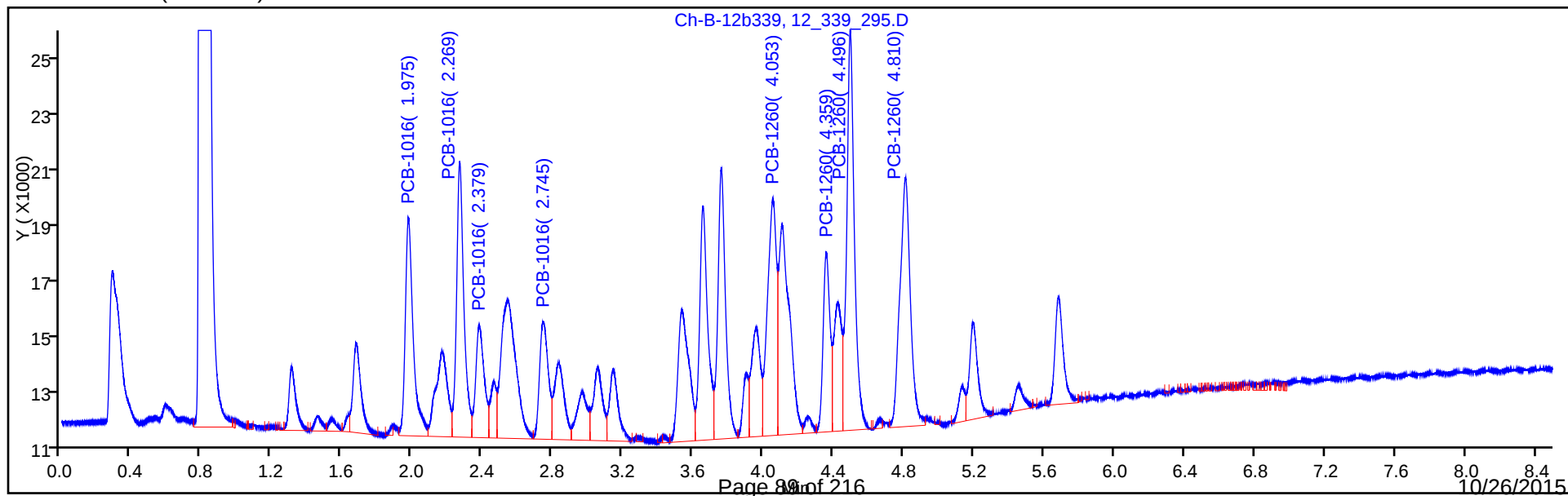
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Injection Date: 01-Aug-2015 13:58:50

Instrument ID: HP5890-12

Lims ID: IC 4

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

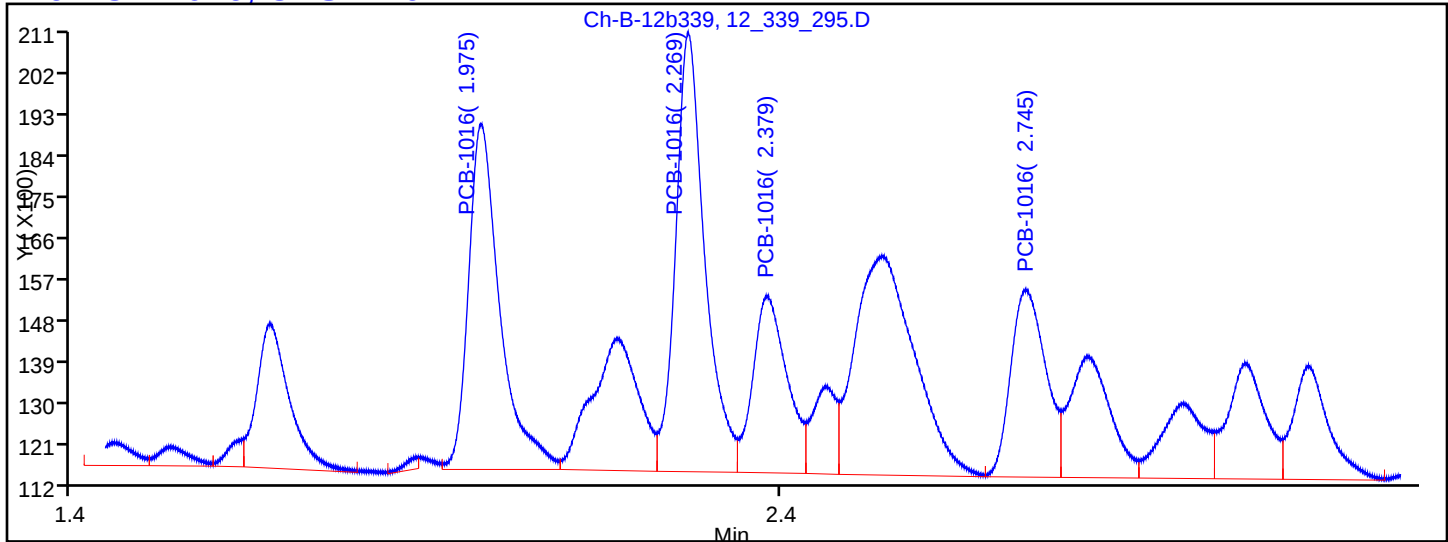
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

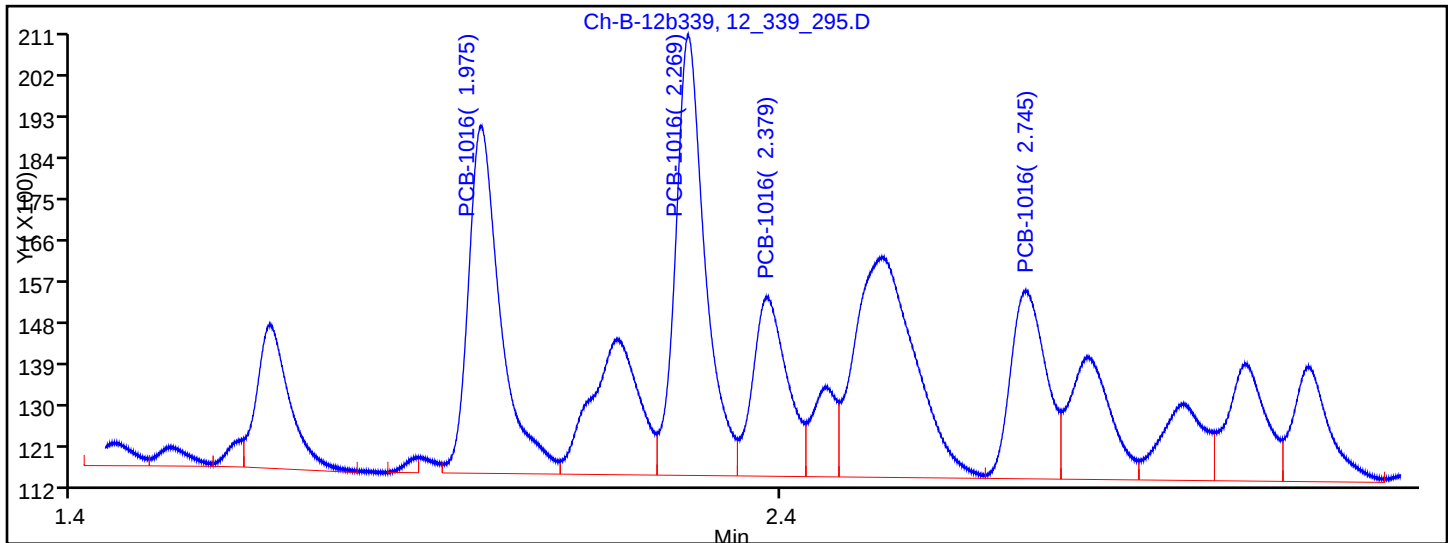
Column: ZB-35 (0.53 mm)

Detector: Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 1.975	Response = 23417	M
RT = 2.269	Response = 27589	M
RT = 2.379	Response = 12988	M
RT = 2.745	Response = 14096	M



Manual Integration Results

RT = 1.975	Response = 24277	M
RT = 2.269	Response = 28119	M
RT = 2.379	Response = 13402	M
RT = 2.745	Response = 14320	M

Reviewer: eversd, 03-Aug-2015 11:07:18

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_295.D

Injection Date: 01-Aug-2015 13:58:50

Instrument ID: HP5890-12

Lims ID: IC 4

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

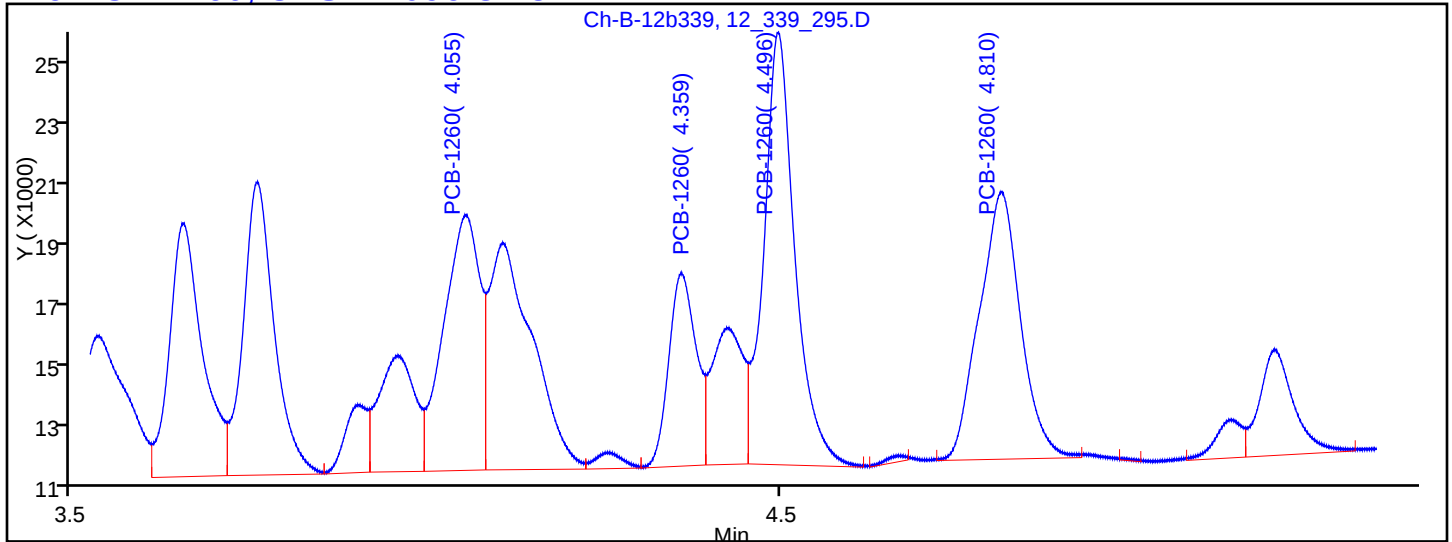
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

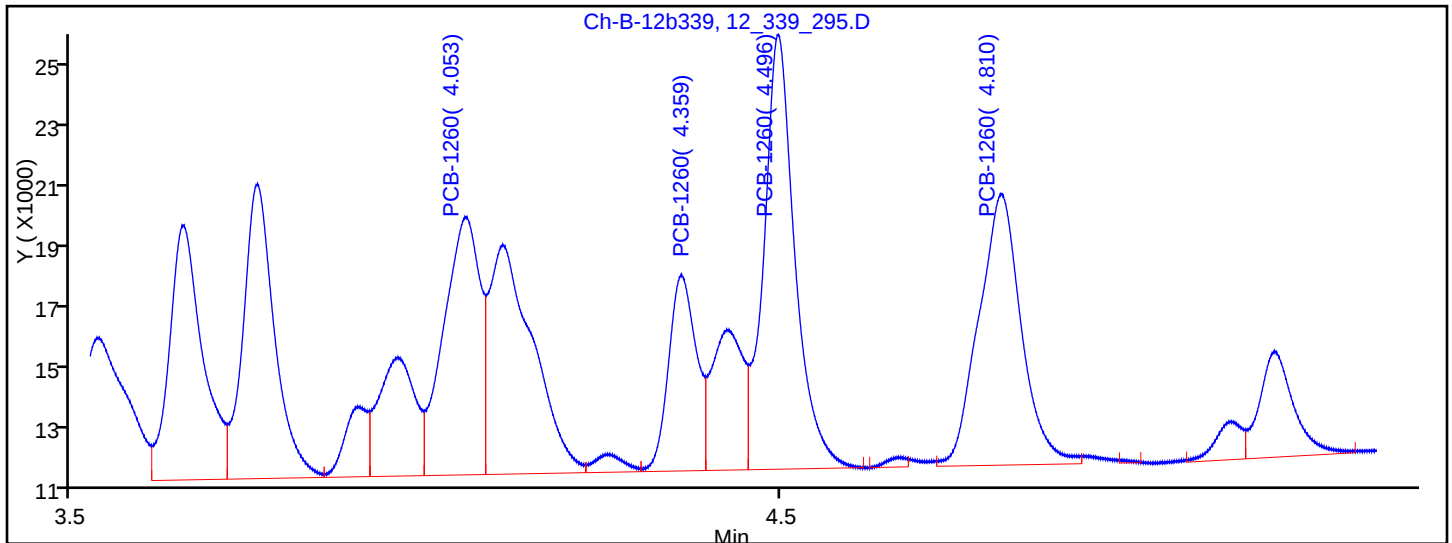
Column: ZB-35 (0.53 mm)

Detector: Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.055	Response = 29335	M
RT = 4.359	Response = 16795	M
RT = 4.496	Response = 42561	M
RT = 4.810	Response = 34902	M



Manual Integration Results

RT = 4.053	Response = 29782	M
RT = 4.359	Response = 17291	M
RT = 4.496	Response = 43010	M
RT = 4.810	Response = 36559	M

Reviewer: eversd, 03-Aug-2015 11:07:18

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Aug-2015 14:13:48 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:55 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:07:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.687	1.687	0.000	7118	0.002500	0.002537	
2	1.310	1.310	0.000	3326	0.002500	0.002213	
RPD = 13.66							

6 PCB-1016

1	2.251	2.251	0.000	14782	0.1000	0.1036	
1	2.389	2.389	0.000	8067	0.1000	0.0970	
1	2.587	2.587	0.000	23909	0.1000	0.1002	
1	2.671	2.671	0.000	11552	0.1000	0.1117	
Average of Peak Amounts =							0.1031
2	1.975	1.975	0.000	12540	0.1000	0.1050	
2	2.265	2.265	0.000	14153	0.1000	0.0942	
2	2.375	2.375	0.000	6820	0.1000	0.0976	
2	2.743	2.743	0.000	6983	0.1000	0.0954	
Average of Peak Amounts =							0.0980
RPD = 5.04							

9 PCB-1260

1	4.191	4.191	0.000	26362	0.1000	0.1025	M
1	4.408	4.408	0.000	22845	0.1000	0.1033	M
1	4.538	4.538	0.000	23056	0.1000	0.1038	M
1	4.918	4.918	0.000	30590	0.1000	0.1015	M
Average of Peak Amounts =							0.1028
2	4.055	4.055	0.000	14580	0.1000	0.0927	M
2	4.361	4.361	0.000	8431	0.1000	0.0908	M
2	4.497	4.497	0.000	20454	0.1000	0.0955	M
2	4.814	4.814	0.000	16661	0.1000	0.0910	
Average of Peak Amounts =							0.0925
RPD = 10.50							

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.235	6.235	0.000	8492	0.002500	0.002446	
2	5.687	5.687	0.000	6548	0.002500	0.002478	

RPD = 1.29

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:07:56

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D

Injection Date: 01-Aug-2015 14:13:48

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 3

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

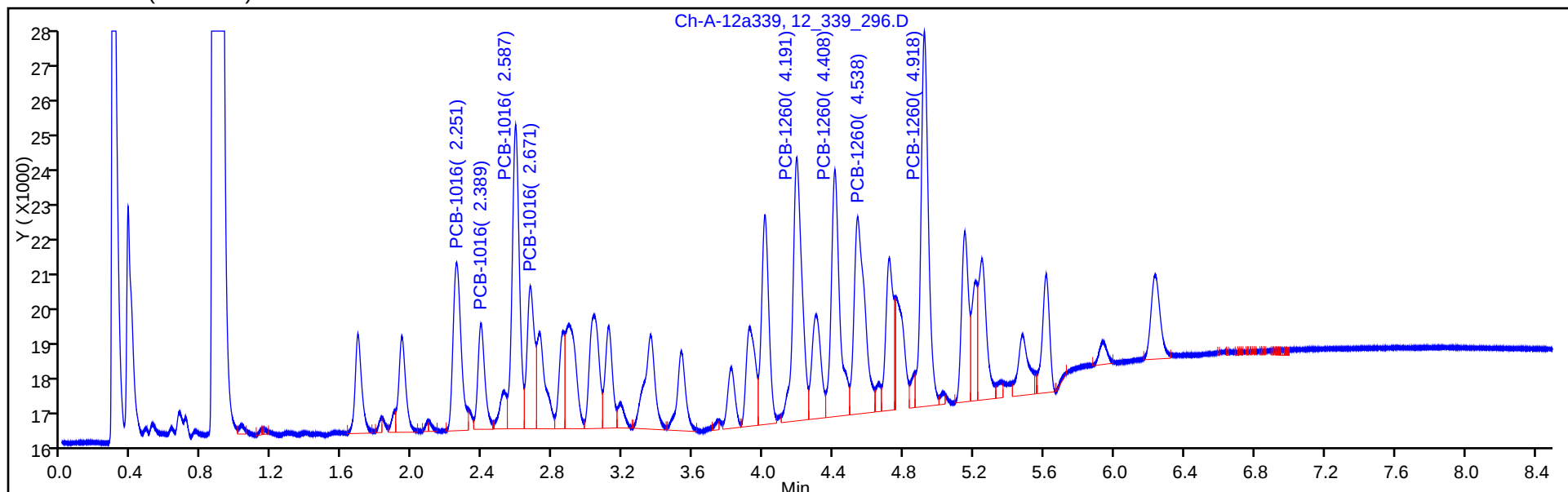
Dil. Factor: 1.0000

ALS Bottle#: 0

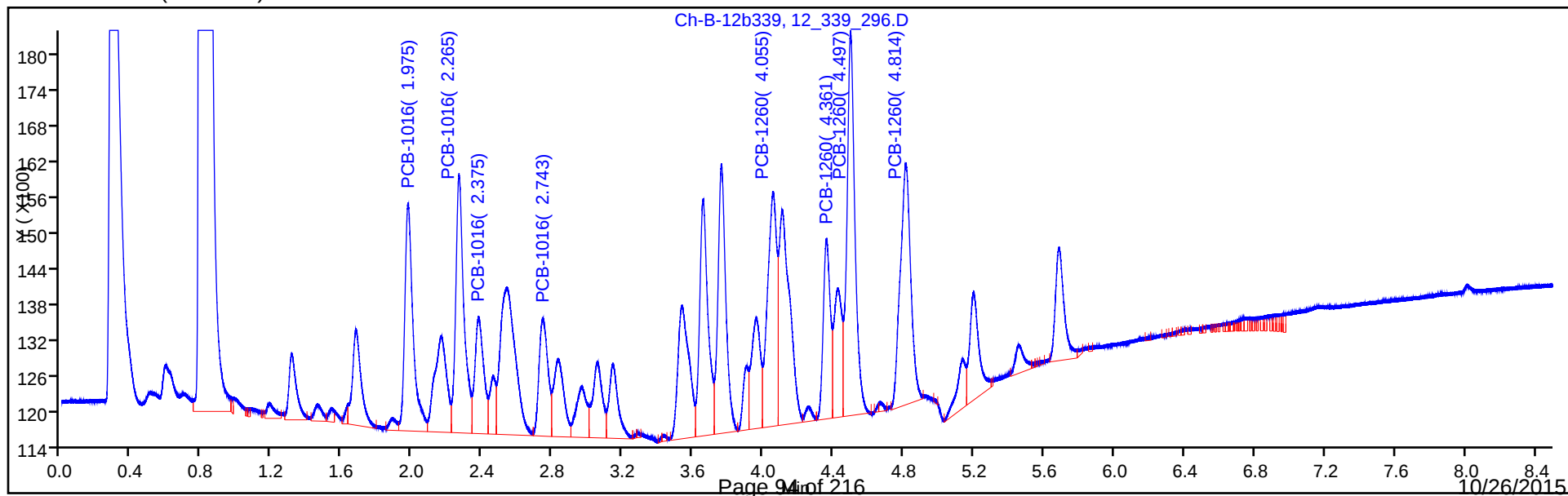
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_296.D

Injection Date: 01-Aug-2015 14:13:48

Instrument ID: HP5890-12

Lims ID: IC 3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

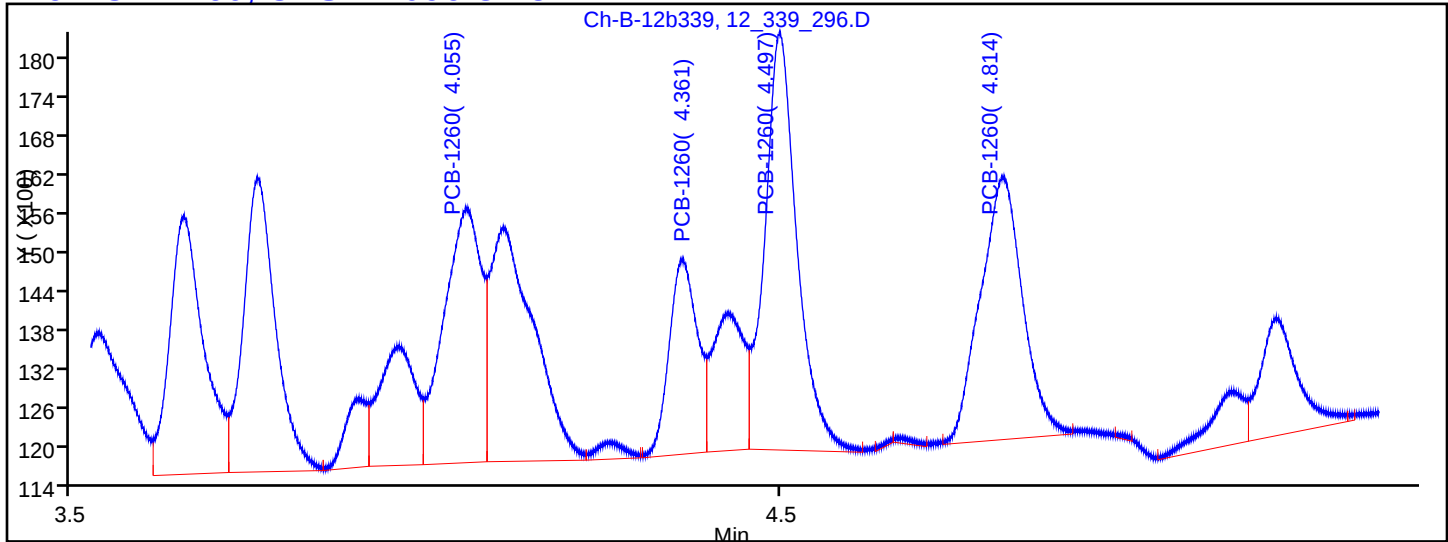
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

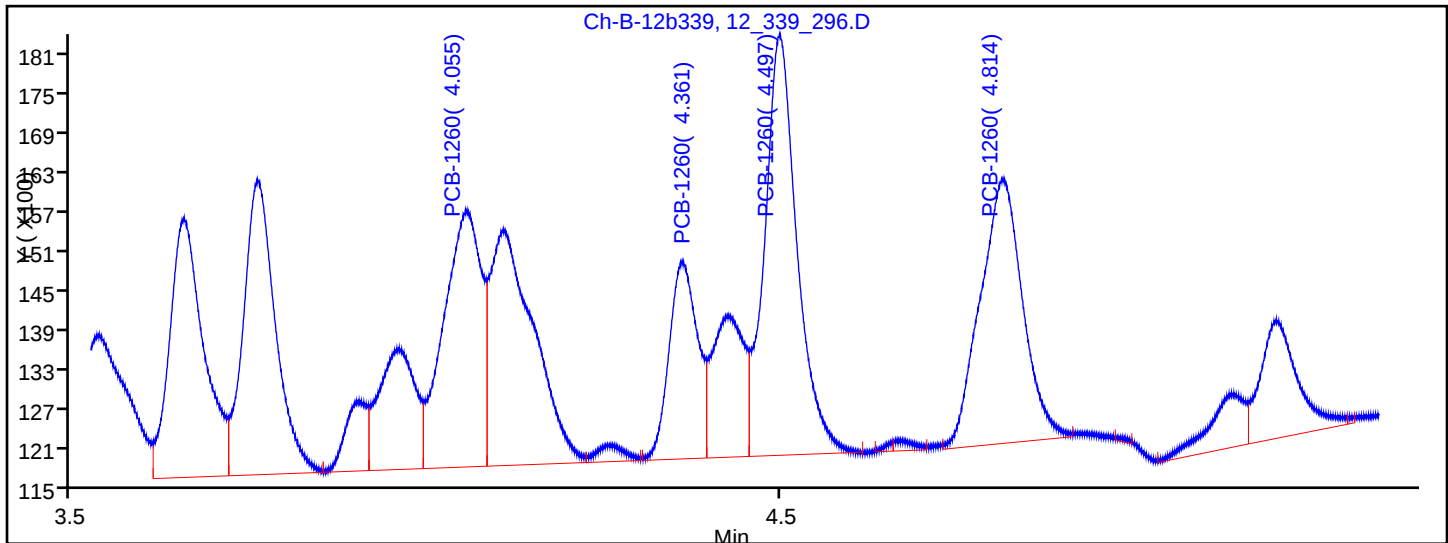
Detector: Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.055	Response = 14462	M
RT = 4.361	Response = 8303	M
RT = 4.497	Response = 20329	M
RT = 4.814	Response = 16661	



Manual Integration Results

RT = 4.055	Response = 14580	M
RT = 4.361	Response = 8431	M
RT = 4.497	Response = 20454	M
RT = 4.814	Response = 16661	

Reviewer: eversd, 03-Aug-2015 11:07:50

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 14:28:46 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:07:58 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 11:08:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M

1	1.689	1.687	0.002	3550	0.001250	0.001265	M
2	1.311	1.310	0.001	2002	0.001250	0.001332	

RPD = 5.12

6 PCB-1016 M

1	2.249	2.251	-0.002	7544	0.0500	0.0529	M
1	2.389	2.389	0.000	4350	0.0500	0.0523	M
1	2.586	2.587	-0.001	12565	0.0500	0.0526	M
1	2.671	2.671	0.000	6391	0.0500	0.0618	M

Average of Peak Amounts = 0.0549

2	1.973	1.975	-0.002	6171	0.0500	0.0517	M
2	2.263	2.265	-0.002	6996	0.0500	0.0466	M
2	2.375	2.375	0.000	3320	0.0500	0.0475	M
2	2.742	2.743	-0.001	3116	0.0500	0.0426	

Average of Peak Amounts = 0.0471

RPD = 15.35

9 PCB-1260 M

1	4.190	4.191	-0.001	13617	0.0500	0.0530	M
1	4.407	4.408	-0.001	11612	0.0500	0.0525	M
1	4.535	4.538	-0.003	11774	0.0500	0.0530	M
1	4.917	4.918	-0.001	15530	0.0500	0.0515	M

Average of Peak Amounts = 0.0525

2	4.056	4.055	0.001	7136	0.0500	0.0454	M
2	4.361	4.361	0.000	4553	0.0500	0.0491	M
2	4.498	4.497	0.001	9973	0.0500	0.0466	M
2	4.811	4.814	-0.003	8798	0.0500	0.0480	M

Average of Peak Amounts = 0.0473

RPD = 10.49

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.231	6.235	-0.004	5154	0.001250	0.001485	
2	5.687	5.687	0.000	3432	0.001250	0.001299	

RPD = 13.36

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:00

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Injection Date: 01-Aug-2015 14:28:46

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

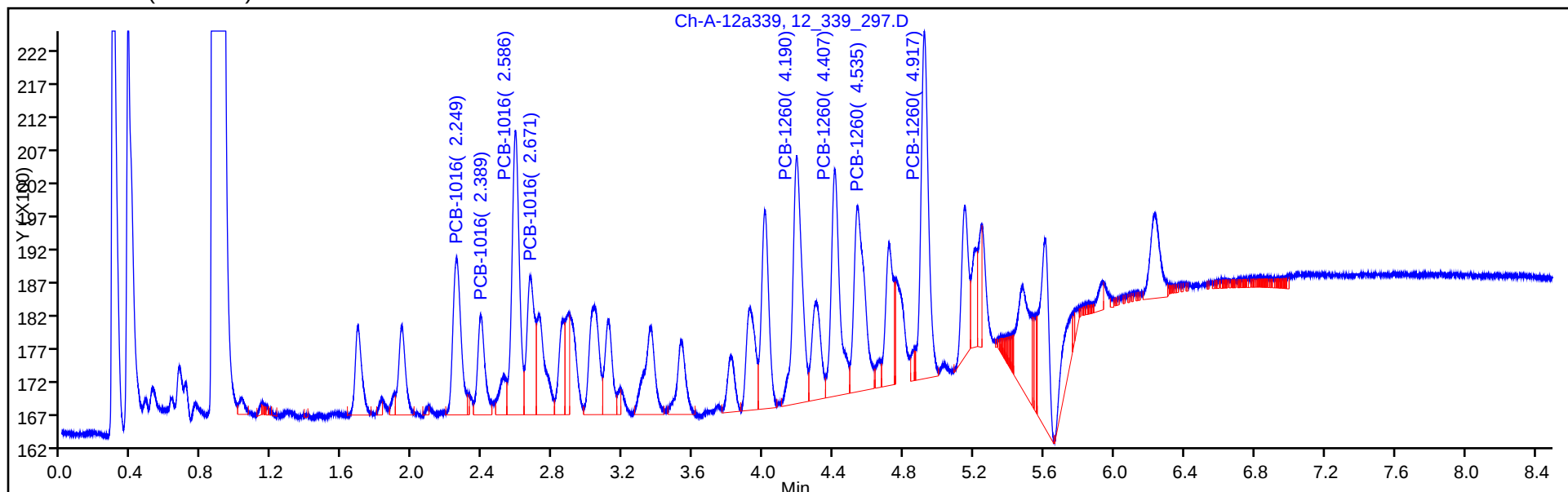
Dil. Factor: 1.0000

ALS Bottle#: 0

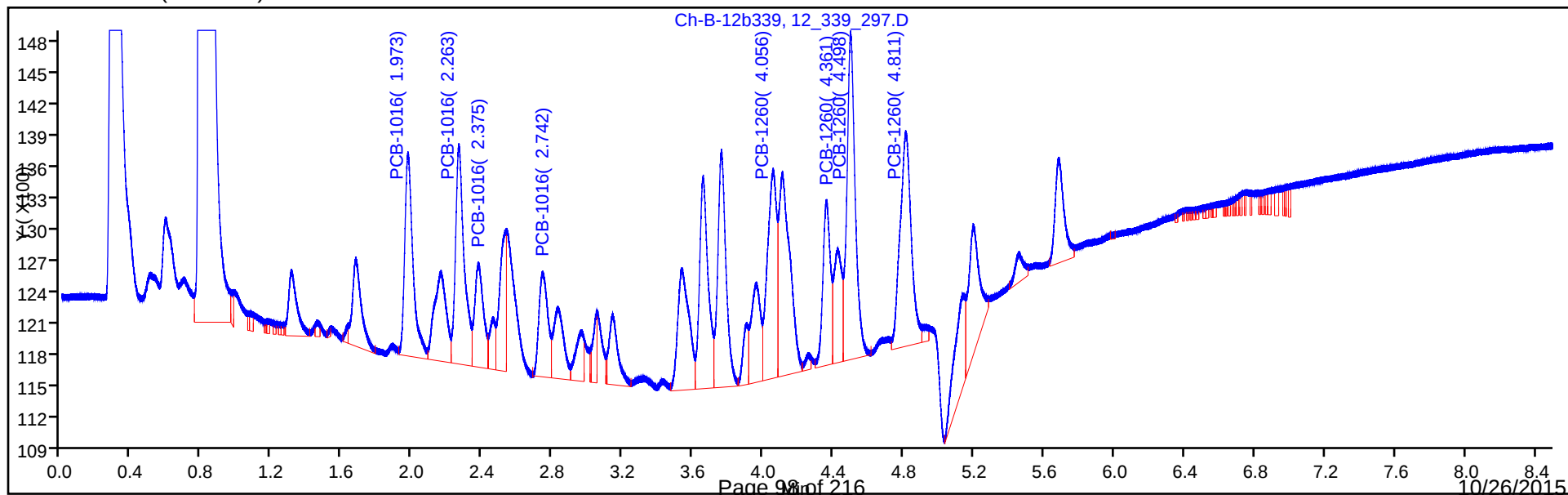
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Injection Date: 01-Aug-2015 14:28:46

Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

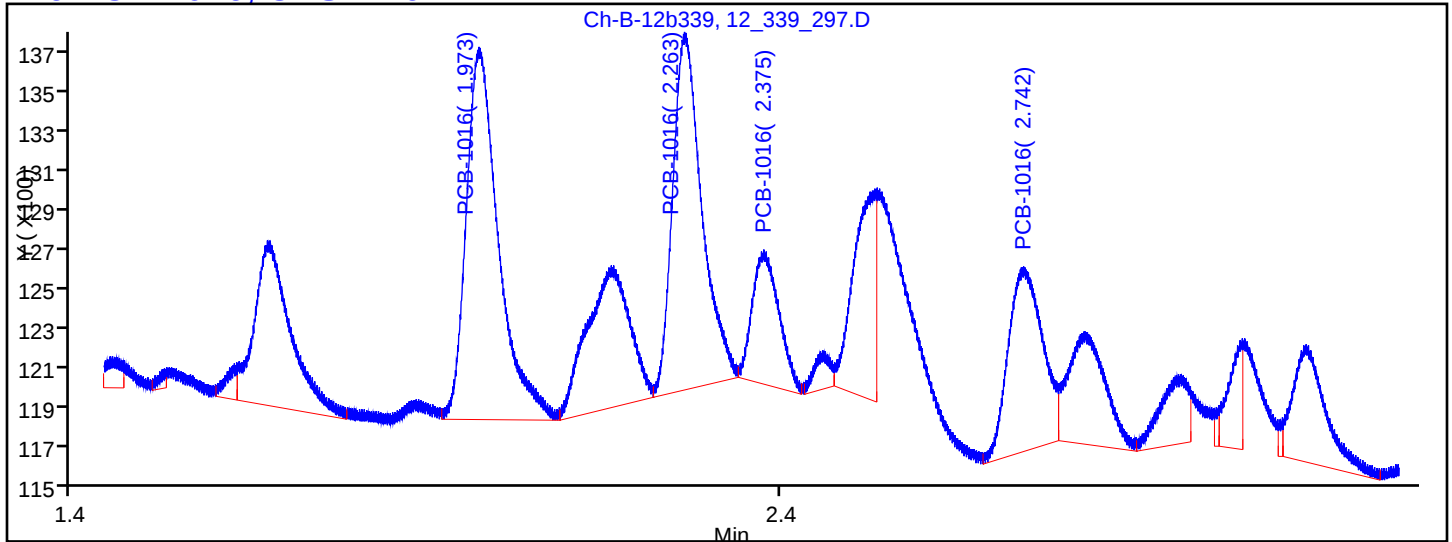
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

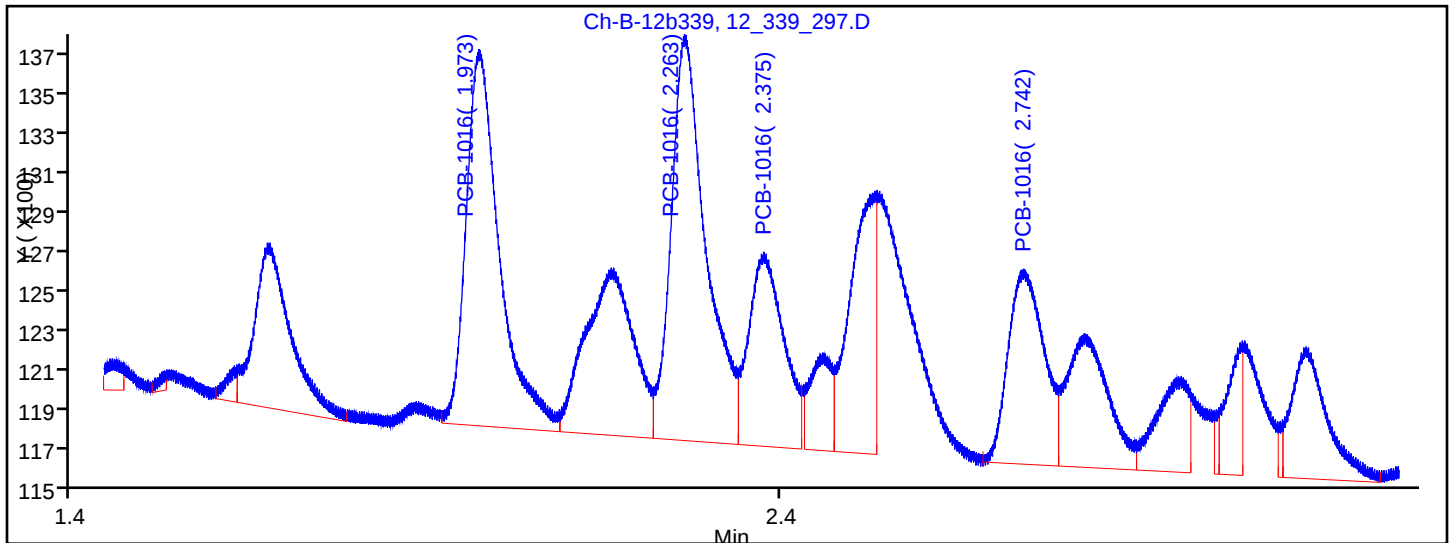
Column: ZB-35 (0.53 mm)

Detector: Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 1.973	Response = 5901	M
RT = 2.263	Response = 5128	M
RT = 2.375	Response = 1744	M
RT = 2.742	Response = 3116	



Manual Integration Results

RT = 1.973	Response = 6171	M
RT = 2.263	Response = 6996	M
RT = 2.375	Response = 3320	M
RT = 2.742	Response = 3116	

Reviewer: eversd, 03-Aug-2015 11:08:29

Audit Action: Assigned New Baseline

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_297.D

Injection Date: 01-Aug-2015 14:28:46

Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

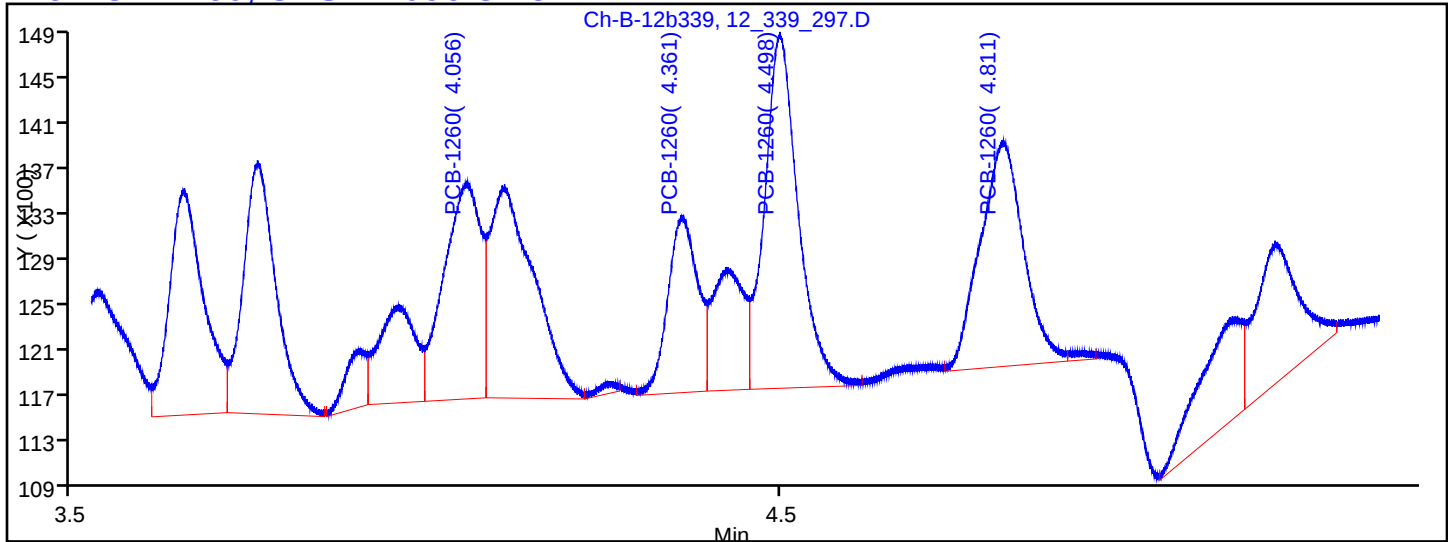
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

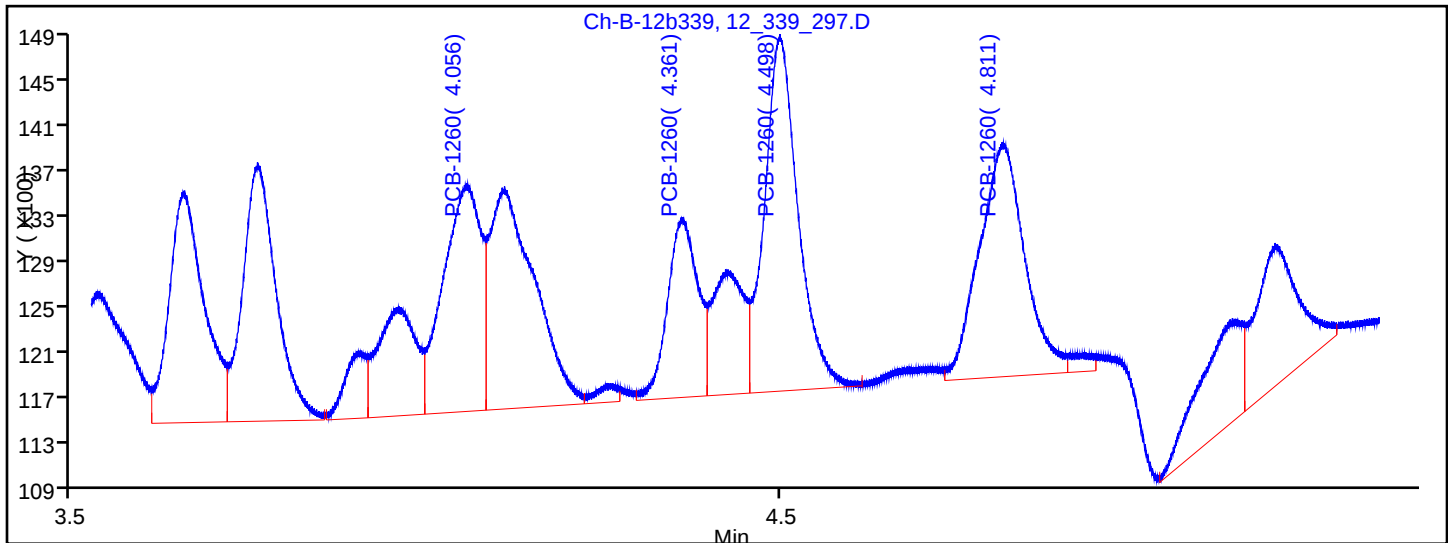
Detector: Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.056	Response = 6679	M
RT = 4.361	Response = 4421	M
RT = 4.498	Response = 9987	M
RT = 4.811	Response = 8085	M



Manual Integration Results

RT = 4.056	Response = 7136	M
RT = 4.361	Response = 4553	M
RT = 4.498	Response = 9973	M
RT = 4.811	Response = 8798	M

Reviewer: eversd, 03-Aug-2015 11:08:29

Audit Action: Assigned New Baseline

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Aug-2015 14:43:45 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub1
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:03 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 11:09:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

M

1	1.692	1.687	0.005	1520	0.000500	0.000542	
2	1.314	1.310	0.004	884	0.000500	0.000588	M
RPD = 8.20							

6 PCB-1016

M

1	2.251	2.251	0.000	3642	0.0200	0.0255	M
1	2.391	2.389	0.002	2300	0.0200	0.0277	M
1	2.589	2.587	0.002	5803	0.0200	0.0243	M
1	2.684	2.671	0.013	2217	0.0200	0.0214	M
Average of Peak Amounts =							0.0247
2	1.973	1.975	-0.002	2452	0.0200	0.0205	M
2	2.263	2.265	-0.002	2829	0.0200	0.0188	M
2	2.373	2.375	-0.002	1578	0.0200	0.0226	M
2	2.745	2.743	0.002	1315	0.0200	0.0180	
Average of Peak Amounts =							0.0200
RPD = 21.28							

9 PCB-1260

M

1	4.193	4.191	0.002	5921	0.0200	0.0230	M
1	4.410	4.408	0.002	4217	0.0200	0.0191	M
1	4.539	4.538	0.001	4926	0.0200	0.0222	M
1	4.920	4.918	0.002	5970	0.0200	0.0198	M
Average of Peak Amounts =							0.0210
2	4.057	4.055	0.002	3150	0.0200	0.0200	M
2	4.359	4.361	-0.002	2248	0.0200	0.0242	M
2	4.499	4.497	0.002	4027	0.0200	0.0188	M
2	4.816	4.814	0.002	3278	0.0200	0.0179	
Average of Peak Amounts =							0.0202
RPD = 3.77							

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl M
1 6.233 6.235 -0.002 2145 0.000500 0.000618 M
2 5.686 5.687 -0.001 1728 0.000500 0.000654
RPD = 5.67

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:05

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 1

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

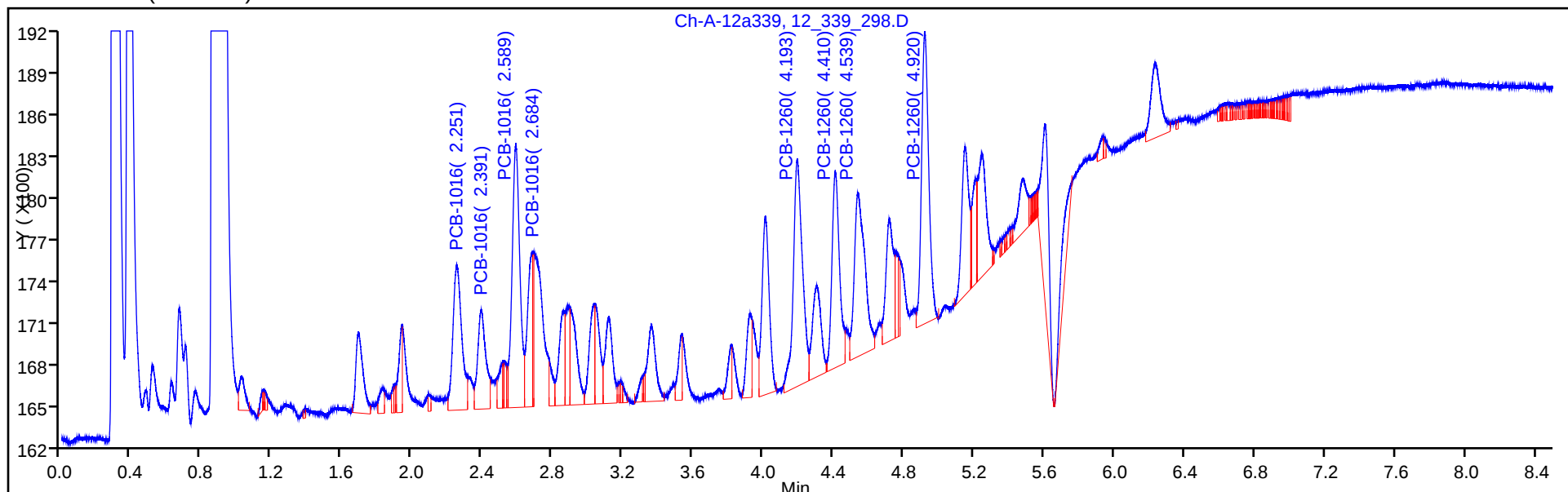
Dil. Factor: 1.0000

ALS Bottle#: 0

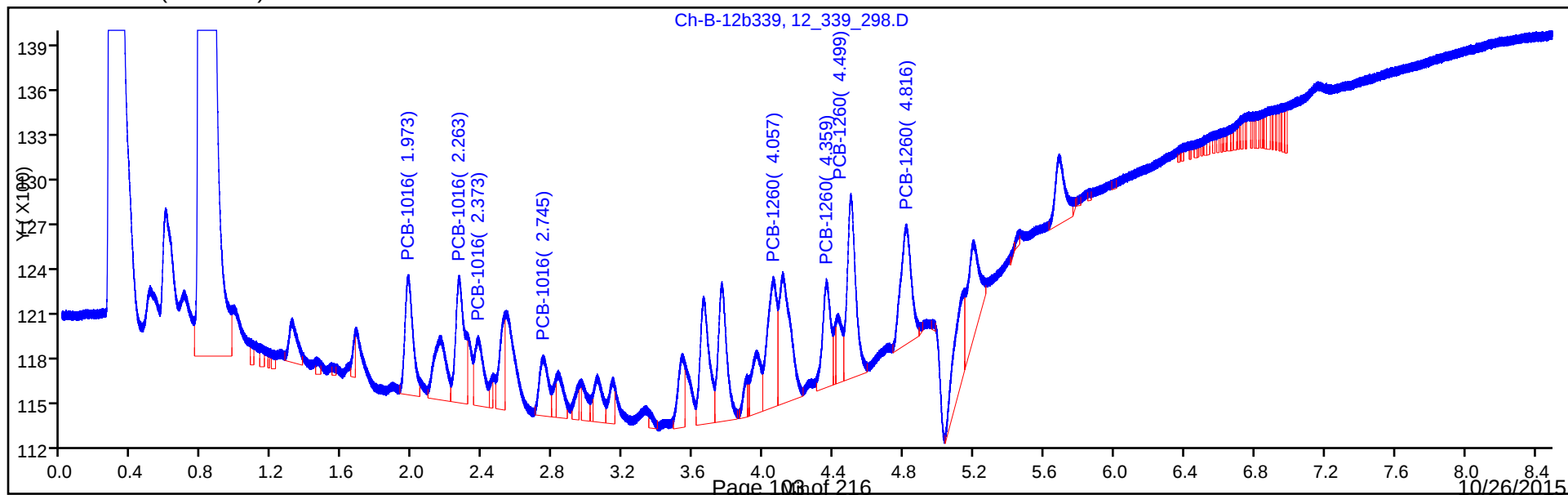
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: hp12_pcb

Limit Group:

GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

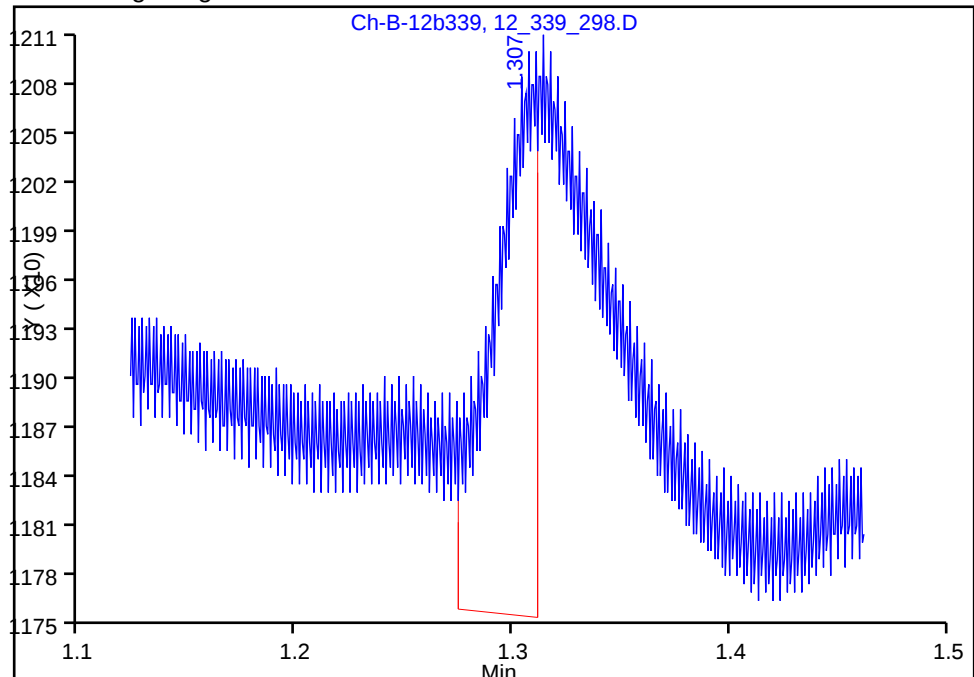
Detector

Ch-B-7b136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

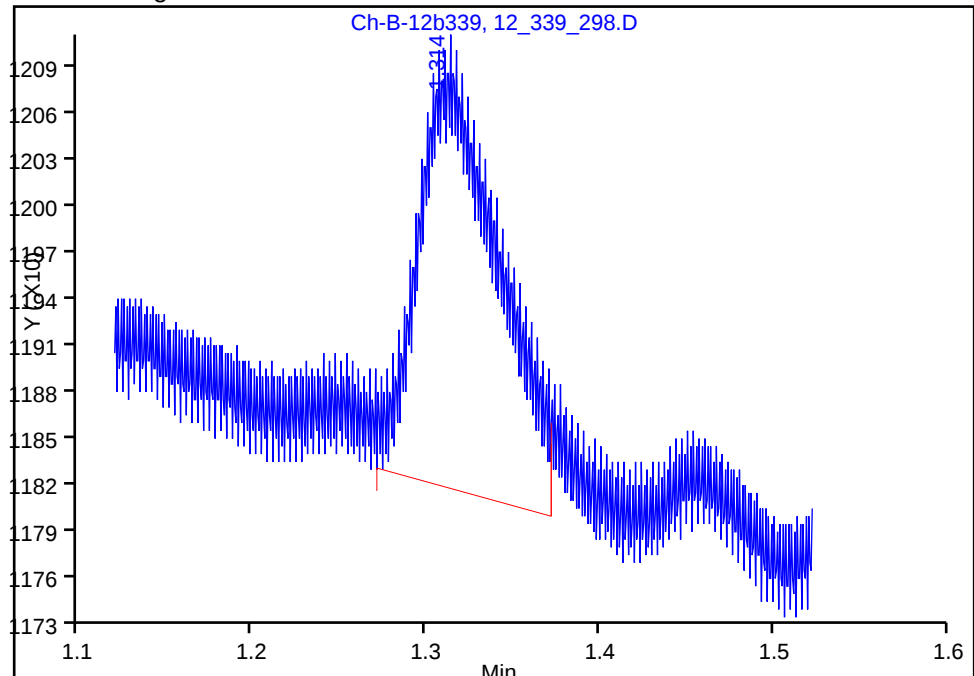
RT: 1.31
Area: 438
Amount: 0.000318
Amount Units: ng/uL

Processing Integration Results



RT: 1.31
Area: 884
Amount: 0.000588
Amount Units: ng/uL

Manual Integration Results



Reviewer: eversd, 03-Aug-2015 11:09:44

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

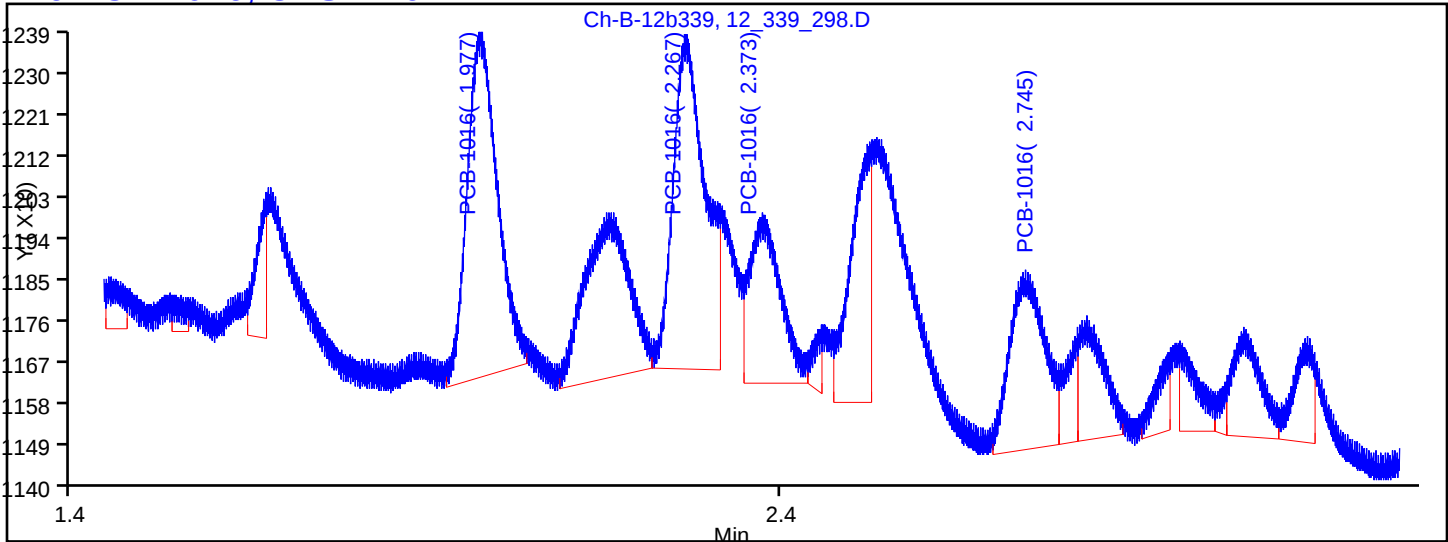
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

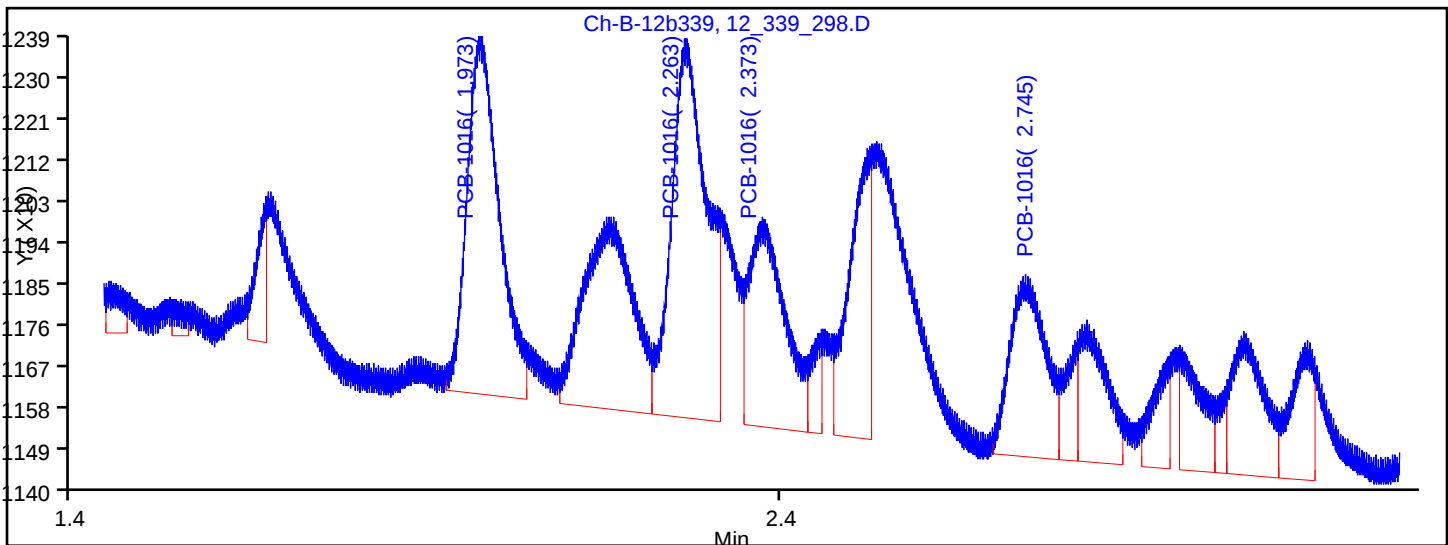
Column: ZB-35 (0.53 mm)

Detector: Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 1.977	Response = 2227	M
RT = 2.267	Response = 2263	M
RT = 2.373	Response = 1095	M
RT = 2.745	Response = 1315	



Manual Integration Results

RT = 1.973	Response = 2452	M
RT = 2.263	Response = 2829	M
RT = 2.373	Response = 1578	M
RT = 2.745	Response = 1315	

Reviewer: eversd, 03-Aug-2015 11:09:44

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_298.D

Injection Date: 01-Aug-2015 14:43:45

Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

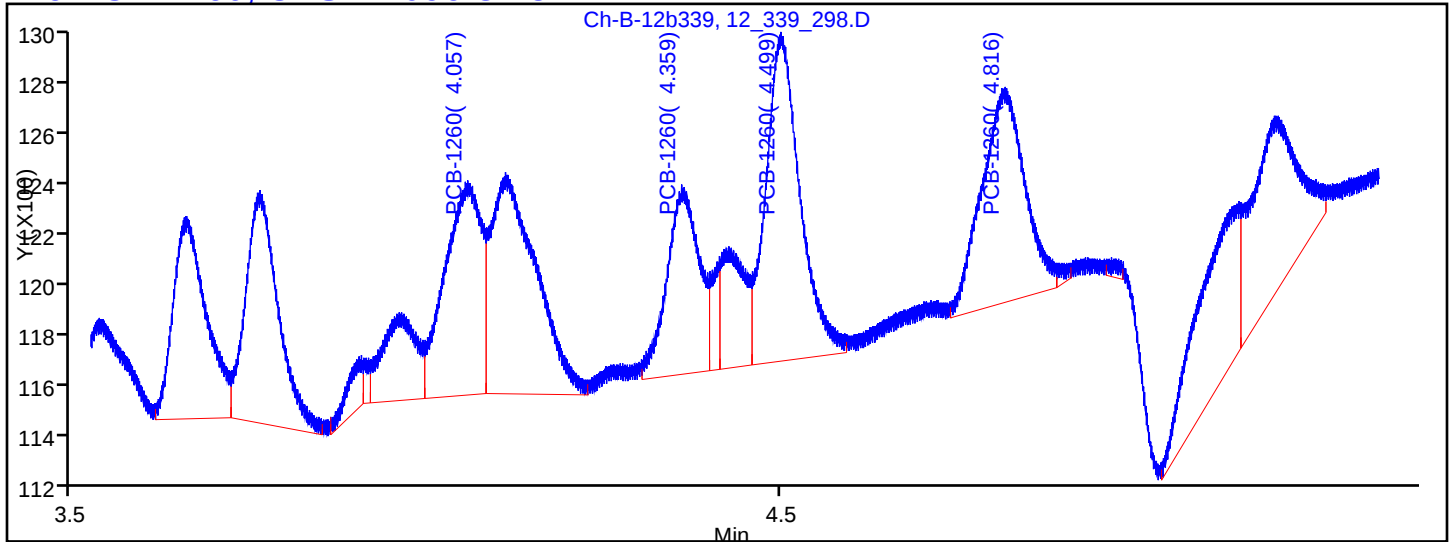
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

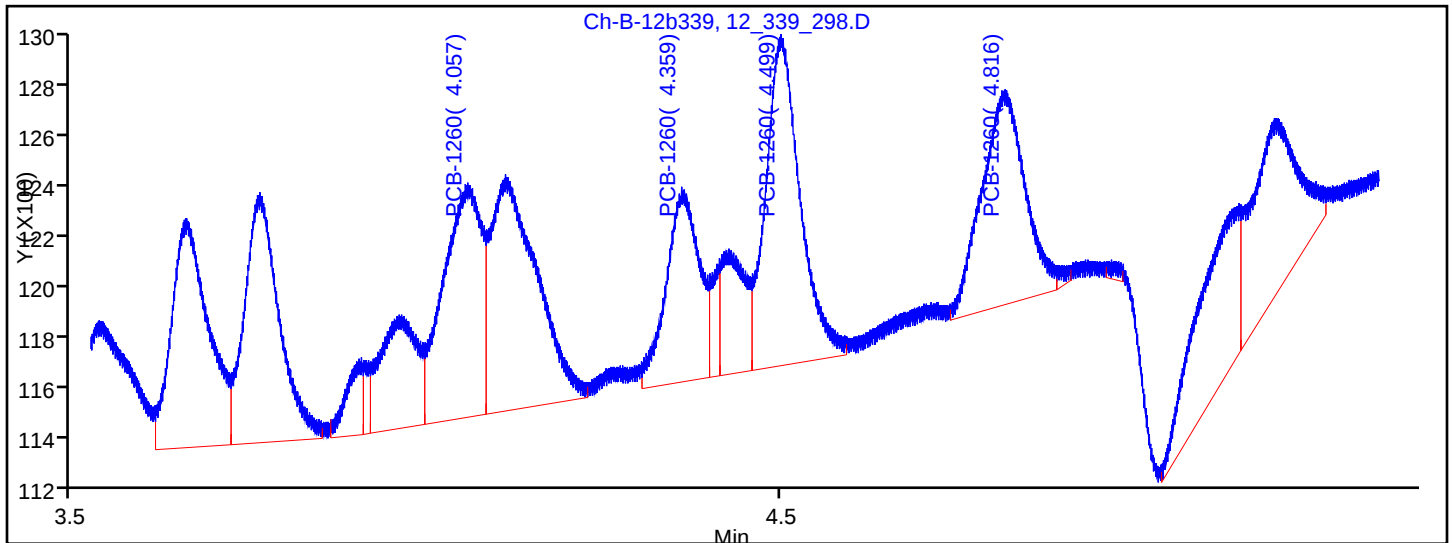
Detector: Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.057	Response = 2752	M
RT = 4.359	Response = 2131	M
RT = 4.499	Response = 3979	M
RT = 4.816	Response = 3278	



Manual Integration Results

RT = 4.057	Response = 3150	M
RT = 4.359	Response = 2248	M
RT = 4.499	Response = 4027	M
RT = 4.816	Response = 3278	

Reviewer: eversd, 03-Aug-2015 11:09:44

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 15:43 Calibration End Date: 08/01/2015 15:43 Calibration ID: 24333

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/12	12_339_302.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.285										1.251 - 1.311	1.285
PCB-1221 Peak 2	1.530										1.496 - 1.556	1.530
PCB-1221 Peak 3	1.825										1.791 - 1.851	1.825
PCB-1221 Peak 4	1.940										1.905 - 1.965	1.940
PCB-1254 Peak 1	3.361										3.323 - 3.383	3.361
PCB-1254 Peak 2	3.746										3.709 - 3.769	3.746
PCB-1254 Peak 3	3.823										3.786 - 3.846	3.823
PCB-1254 Peak 4	4.018										3.981 - 4.041	4.018

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 15:43 Calibration End Date: 08/01/2015 15:43 Calibration ID: 24333

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/12	12_339_302.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	33340				Ave		33340.0000						20.0			
PCB-1221 Peak 2	11812				Ave		11812.0000						20.0			
PCB-1221 Peak 3	32872				Ave		32872.0000						20.0			
PCB-1221 Peak 4	99980				Ave		99980.0000						20.0			
PCB-1254 Peak 1	214020				Ave		214020.0000						20.0			
PCB-1254 Peak 2	163674				Ave		163674.0000						20.0			
PCB-1254 Peak 3	211192				Ave		211192.0000						20.0			
PCB-1254 Peak 4	219734				Ave		219734.0000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 15:43 Calibration End Date: 08/01/2015 15:43 Calibration ID: 24333

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/12	12_339_302.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	16670					0.500				
PCB-1221 Peak 2	Ave	5906					0.500				
PCB-1221 Peak 3	Ave	16436					0.500				
PCB-1221 Peak 4	Ave	49990					0.500				
PCB-1254 Peak 1	Ave	107010					0.500				
PCB-1254 Peak 2	Ave	81837					0.500				
PCB-1254 Peak 3	Ave	105596					0.500				
PCB-1254 Peak 4	Ave	109867					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_302.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 15:43:34 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:10 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 13:25:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221

1	1.285	1.281	0.004	16670	0.5000	0.5000	
1	1.530	1.526	0.004	5906	0.5000	0.5000	a
1	1.825	1.821	0.004	16436	0.5000	0.5000	
1	1.940	1.935	0.005	49990	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	1.459	1.454	0.005	7120	0.5000	0.5000	a
2	1.541	1.537	0.004	11247	0.5000	0.5000	a
2	1.679	1.674	0.005	39721	0.5000	0.5000	M
2	1.983	1.976	0.007	12716	0.5000	0.5000	a
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

8 PCB-1254

1	3.361	3.353	0.008	107010	0.5000	0.5000	a
1	3.746	3.739	0.007	81837	0.5000	0.5000	
1	3.823	3.816	0.007	105596	0.5000	0.5000	
1	4.018	4.011	0.007	109867	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.143	3.137	0.006	66836	0.5000	0.5000	
2	3.517	3.508	0.009	96730	0.5000	0.5000	
2	3.650	3.641	0.009	93220	0.5000	0.5000	
2	4.062	4.055	0.007	71591	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

Reagents:

21-54w/IS@0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:11

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_302.D

Injection Date: 01-Aug-2015 15:43:34

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

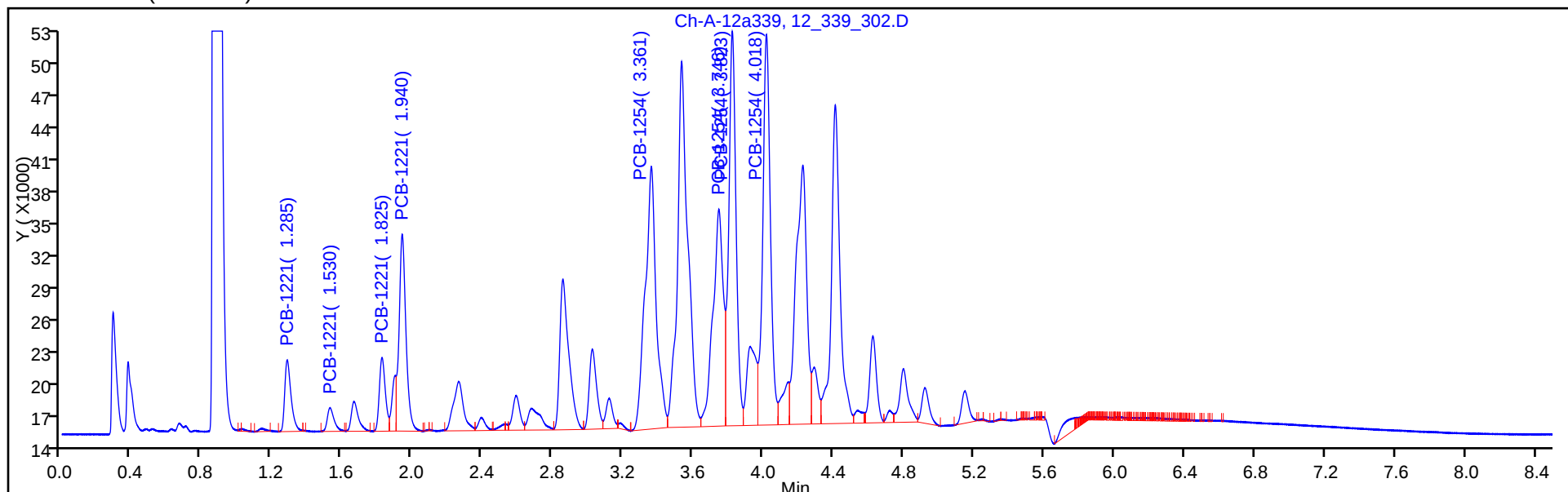
Dil. Factor: 1.0000

ALS Bottle#: 0

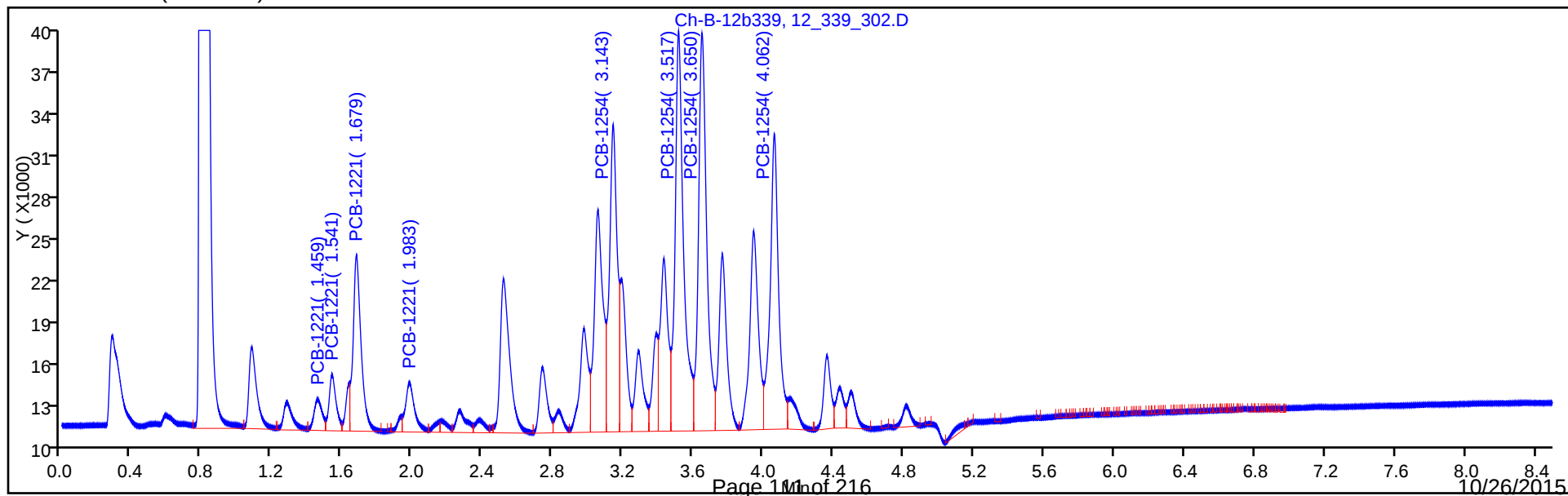
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 15:43 Calibration End Date: 08/01/2015 15:43 Calibration ID: 24334

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/12	12_339_302.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.459										1.424 - 1.484	1.459
PCB-1221 Peak 2	1.541										1.507 - 1.567	1.541
PCB-1221 Peak 3	1.679										1.644 - 1.704	1.679
PCB-1221 Peak 4	1.983										1.946 - 2.006	1.983
PCB-1254 Peak 1	3.143										3.107 - 3.167	3.143
PCB-1254 Peak 2	3.517										3.478 - 3.538	3.517
PCB-1254 Peak 3	3.650										3.611 - 3.671	3.650
PCB-1254 Peak 4	4.062										4.025 - 4.085	4.062

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 15:43 Calibration End Date: 08/01/2015 15:43 Calibration ID: 24334

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/12	12_339_302.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	14240				Ave		14240.0000						20.0			
PCB-1221 Peak 2	22494				Ave		22494.0000						20.0			
PCB-1221 Peak 3	79442				Ave		79442.0000						20.0			
PCB-1221 Peak 4	25432				Ave		25432.0000						20.0			
PCB-1254 Peak 1	133672				Ave		133672.0000						20.0			
PCB-1254 Peak 2	193460				Ave		193460.0000						20.0			
PCB-1254 Peak 3	186440				Ave		186440.0000						20.0			
PCB-1254 Peak 4	143182				Ave		143182.0000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 15:43 Calibration End Date: 08/01/2015 15:43 Calibration ID: 24334

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/12	12_339_302.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	7120					0.500				
PCB-1221 Peak 2	Ave	11247					0.500				
PCB-1221 Peak 3	Ave	39721					0.500				
PCB-1221 Peak 4	Ave	12716					0.500				
PCB-1254 Peak 1	Ave	66836					0.500				
PCB-1254 Peak 2	Ave	96730					0.500				
PCB-1254 Peak 3	Ave	93220					0.500				
PCB-1254 Peak 4	Ave	71591					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_302.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 15:43:34 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:10 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 13:25:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

1	1.285	1.281	0.004	16670	0.5000	0.5000	
1	1.530	1.526	0.004	5906	0.5000	0.5000	a
1	1.825	1.821	0.004	16436	0.5000	0.5000	
1	1.940	1.935	0.005	49990	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	1.459	1.454	0.005	7120	0.5000	0.5000	a
2	1.541	1.537	0.004	11247	0.5000	0.5000	a
2	1.679	1.674	0.005	39721	0.5000	0.5000	M
2	1.983	1.976	0.007	12716	0.5000	0.5000	a
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

8 PCB-1254

1	3.361	3.353	0.008	107010	0.5000	0.5000	a
1	3.746	3.739	0.007	81837	0.5000	0.5000	
1	3.823	3.816	0.007	105596	0.5000	0.5000	
1	4.018	4.011	0.007	109867	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.143	3.137	0.006	66836	0.5000	0.5000	
2	3.517	3.508	0.009	96730	0.5000	0.5000	
2	3.650	3.641	0.009	93220	0.5000	0.5000	
2	4.062	4.055	0.007	71591	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
						RPD = 0.00	

Reagents:

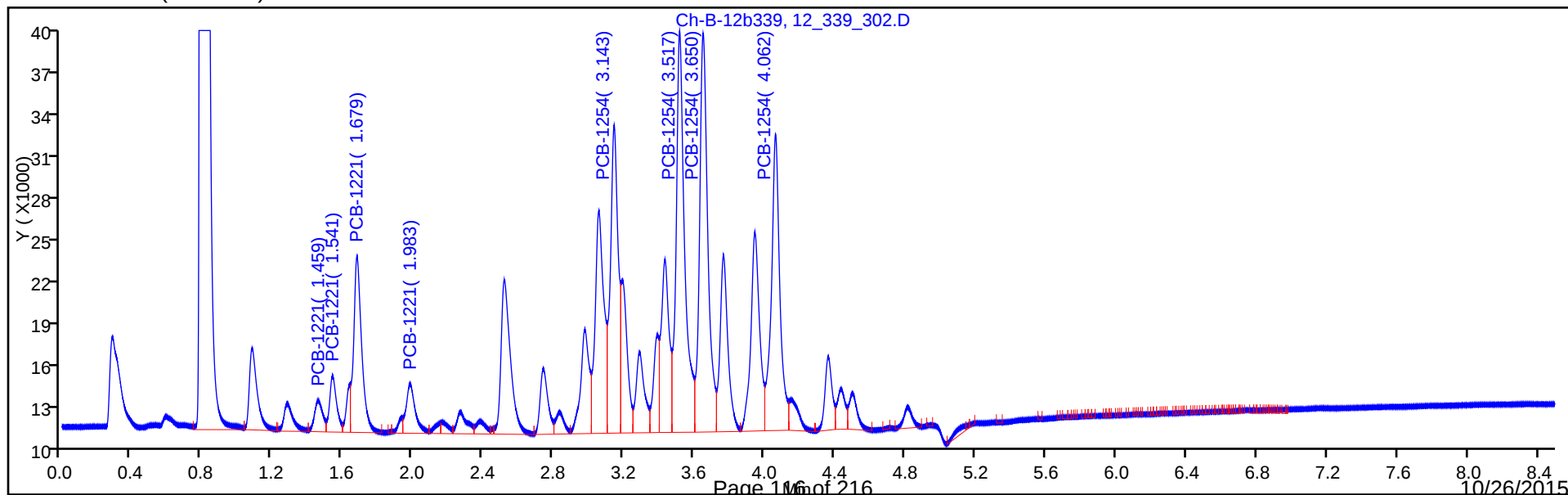
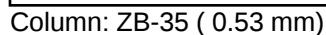
21-54w/IS@0.5_00002

Amount Added: 1.00

Units: mL

Chrom Revision: 2.2 09-Jul-2015 10:16:20

Column: ZB-5 (0.25 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 16:58 Calibration End Date: 08/01/2015 16:58 Calibration ID: 24339

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/17	12_339_307.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	1.823										1.796 - 1.856	1.823
PCB-1232 Peak 2	1.937										1.910 - 1.970	1.937
PCB-1232 Peak 3	2.251										2.226 - 2.286	2.251
PCB-1232 Peak 4	2.588										2.562 - 2.622	2.588
PCB-1262 Peak 1	4.005										3.978 - 4.038	4.005
PCB-1262 Peak 2	4.531										4.503 - 4.563	4.531
PCB-1262 Peak 3	4.711										4.684 - 4.744	4.711
PCB-1262 Peak 4	4.911										4.884 - 4.944	4.911

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 16:58 Calibration End Date: 08/01/2015 16:58 Calibration ID: 24339

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/17	12_339_307.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	23012				Ave		23012.0000						20.0			
PCB-1232 Peak 2	87862				Ave		87862.0000						20.0			
PCB-1232 Peak 3	83092				Ave		83092.0000						20.0			
PCB-1232 Peak 4	113662				Ave		113662.000						20.0			
PCB-1262 Peak 1	133634				Ave		133634.000						20.0			
PCB-1262 Peak 2	307152				Ave		307152.000						20.0			
PCB-1262 Peak 3	156754				Ave		156754.000						20.0			
PCB-1262 Peak 4	360342				Ave		360342.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 16:58 Calibration End Date: 08/01/2015 16:58 Calibration ID: 24339

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/17	12_339_307.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	11506					0.500				
PCB-1232 Peak 2	Ave	43931					0.500				
PCB-1232 Peak 3	Ave	41546					0.500				
PCB-1232 Peak 4	Ave	56831					0.500				
PCB-1262 Peak 1	Ave	66817					0.500				
PCB-1262 Peak 2	Ave	153576					0.500				
PCB-1262 Peak 3	Ave	78377					0.500				
PCB-1262 Peak 4	Ave	180171					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_307.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 16:58:14 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub39
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:17 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 16:24:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

5 PCB-1232

1	1.823	1.826	-0.003	11506	0.5000	0.5000	
1	1.937	1.940	-0.003	43931	0.5000	0.5000	
1	2.251	2.256	-0.005	41546	0.5000	0.5000	
1	2.588	2.592	-0.004	56831	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.677	1.677	0.000	38321	0.5000	0.5000	
2	1.975	1.975	0.000	34966	0.5000	0.5000	
2	2.265	2.270	-0.005	34734	0.5000	0.5000	
2	2.541	2.547	-0.006	30848	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.005	4.008	-0.003	66817	0.5000	0.5000	
1	4.531	4.533	-0.002	153576	0.5000	0.5000	
1	4.711	4.714	-0.003	78377	0.5000	0.5000	
1	4.911	4.914	-0.003	180171	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.757	3.759	-0.002	59199	0.5000	0.5000	
2	4.105	4.108	-0.003	114498	0.5000	0.5000	
2	4.355	4.357	-0.002	61284	0.5000	0.5000	
2	4.491	4.493	-0.002	135135	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

32-62w/IS@0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:18

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_307.D

Injection Date: 01-Aug-2015 16:58:14

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

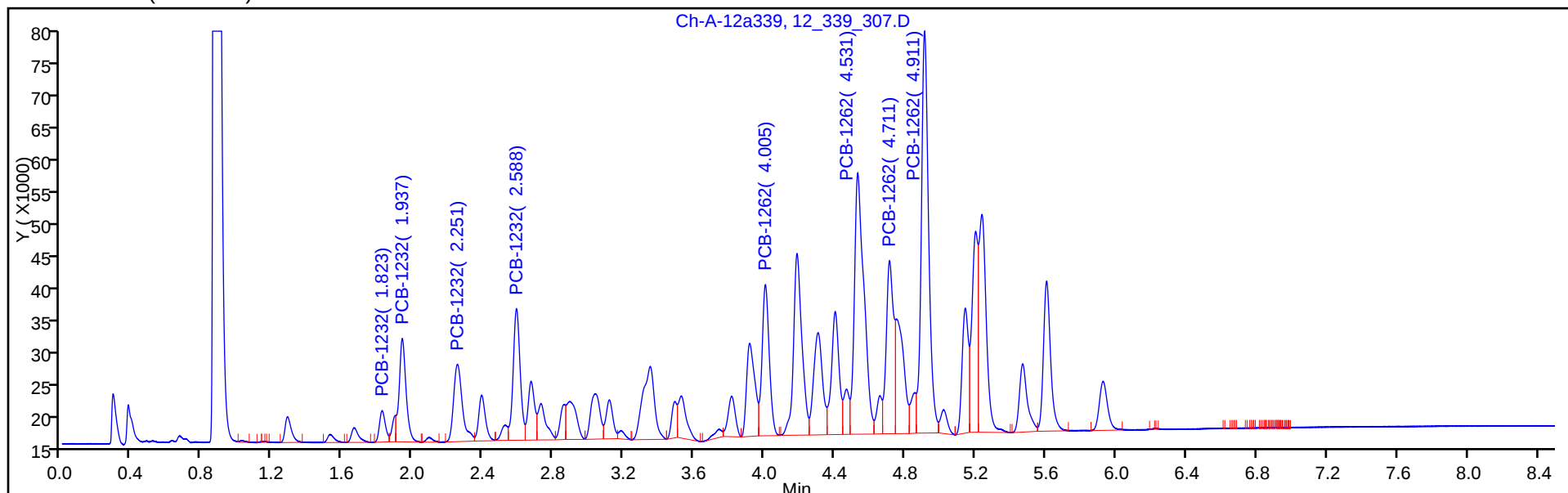
Dil. Factor: 1.0000

ALS Bottle#: 0

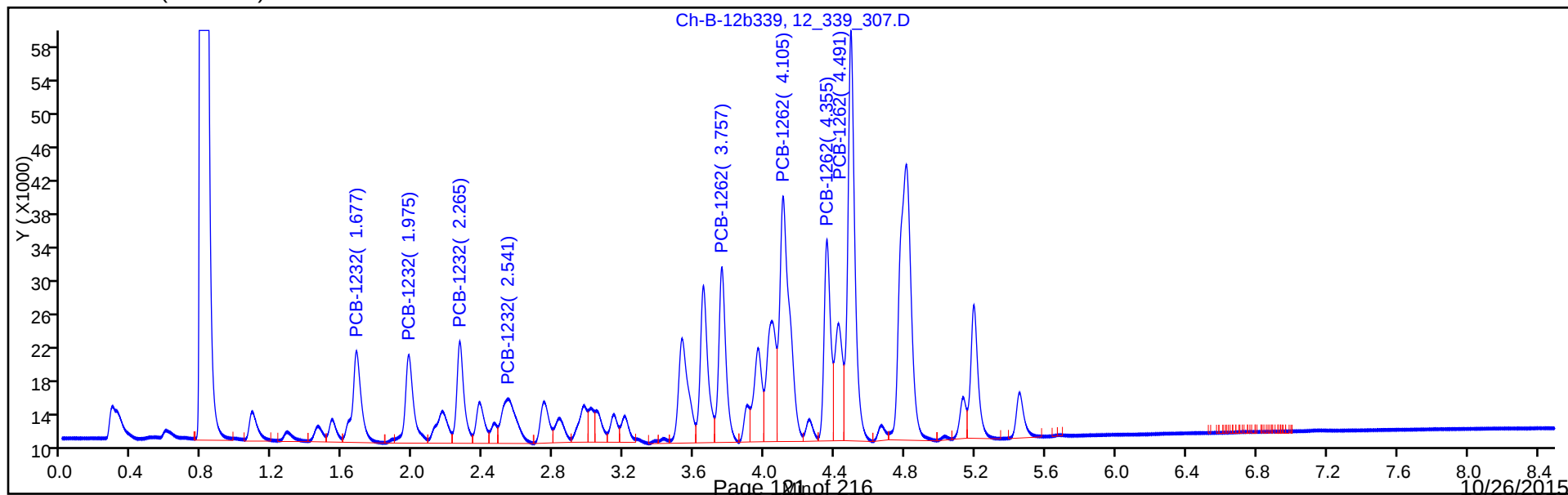
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 16:58 Calibration End Date: 08/01/2015 16:58 Calibration ID: 24340

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/17	12_339_307.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	1.677										1.647 - 1.707	1.677
PCB-1232 Peak 2	1.975										1.945 - 2.005	1.975
PCB-1232 Peak 3	2.265										2.240 - 2.300	2.265
PCB-1232 Peak 4	2.541										2.517 - 2.577	2.541
PCB-1262 Peak 1	3.757										3.729 - 3.789	3.757
PCB-1262 Peak 2	4.105										4.078 - 4.138	4.105
PCB-1262 Peak 3	4.355										4.327 - 4.387	4.355
PCB-1262 Peak 4	4.491										4.463 - 4.523	4.491

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 16:58 Calibration End Date: 08/01/2015 16:58 Calibration ID: 24340

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/17	12_339_307.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	76642				Ave		76642.0000						20.0			
PCB-1232 Peak 2	69932				Ave		69932.0000						20.0			
PCB-1232 Peak 3	69468				Ave		69468.0000						20.0			
PCB-1232 Peak 4	61696				Ave		61696.0000						20.0			
PCB-1262 Peak 1	118398				Ave		118398.000						20.0			
PCB-1262 Peak 2	228996				Ave		228996.000						20.0			
PCB-1262 Peak 3	122568				Ave		122568.000						20.0			
PCB-1262 Peak 4	270270				Ave		270270.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 16:58 Calibration End Date: 08/01/2015 16:58 Calibration ID: 24340

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/17	12_339_307.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	38321					0.500				
PCB-1232 Peak 2	Ave	34966					0.500				
PCB-1232 Peak 3	Ave	34734					0.500				
PCB-1232 Peak 4	Ave	30848					0.500				
PCB-1262 Peak 1	Ave	59199					0.500				
PCB-1262 Peak 2	Ave	114498					0.500				
PCB-1262 Peak 3	Ave	61284					0.500				
PCB-1262 Peak 4	Ave	135135					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_307.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 16:58:14 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub39
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:17 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 16:24:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

1	1.823	1.826	-0.003	11506	0.5000	0.5000	
1	1.937	1.940	-0.003	43931	0.5000	0.5000	
1	2.251	2.256	-0.005	41546	0.5000	0.5000	
1	2.588	2.592	-0.004	56831	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.677	1.677	0.000	38321	0.5000	0.5000	
2	1.975	1.975	0.000	34966	0.5000	0.5000	
2	2.265	2.270	-0.005	34734	0.5000	0.5000	
2	2.541	2.547	-0.006	30848	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.005	4.008	-0.003	66817	0.5000	0.5000	
1	4.531	4.533	-0.002	153576	0.5000	0.5000	
1	4.711	4.714	-0.003	78377	0.5000	0.5000	
1	4.911	4.914	-0.003	180171	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.757	3.759	-0.002	59199	0.5000	0.5000	
2	4.105	4.108	-0.003	114498	0.5000	0.5000	
2	4.355	4.357	-0.002	61284	0.5000	0.5000	
2	4.491	4.493	-0.002	135135	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

32-62w/IS@0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:18

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_307.D

Injection Date: 01-Aug-2015 16:58:14

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

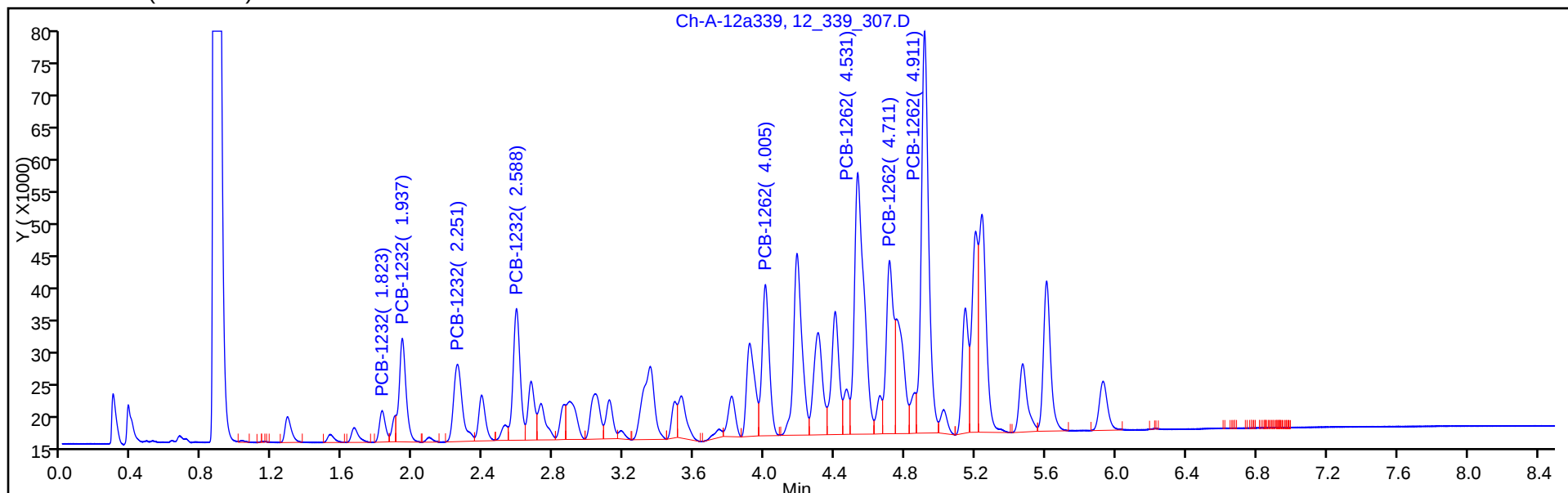
Dil. Factor: 1.0000

ALS Bottle#: 0

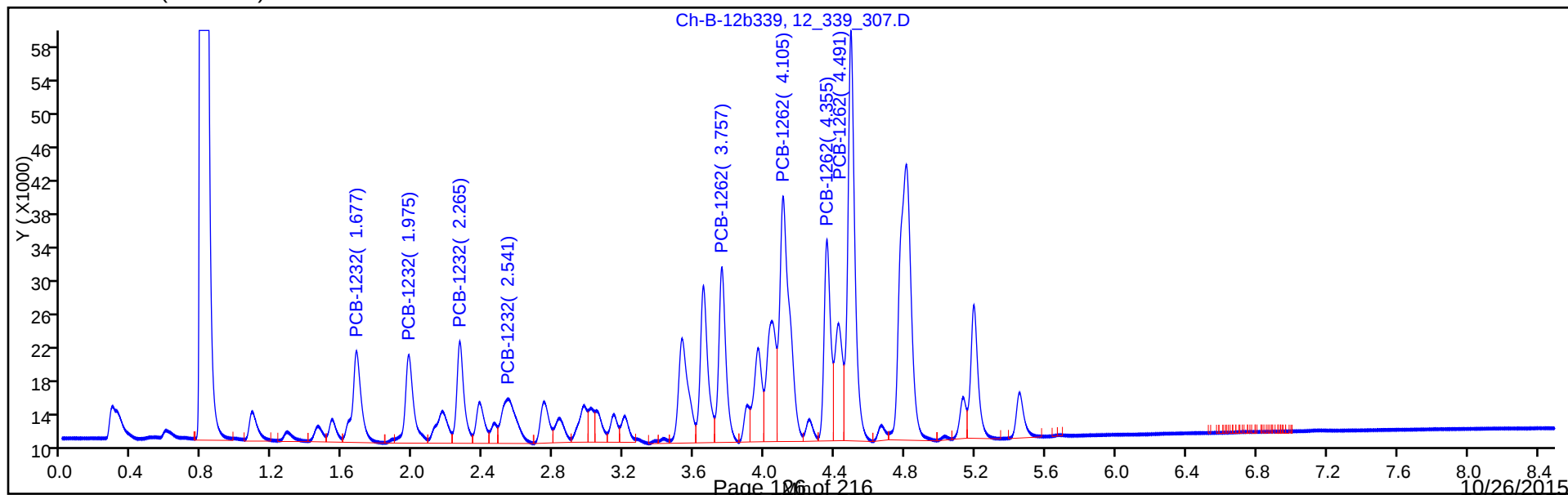
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 18:12 Calibration End Date: 08/01/2015 18:12 Calibration ID: 24345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/22	12_339_312.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.255										2.221 - 2.281	2.255
PCB-1242 Peak 2	2.591										2.560 - 2.620	2.591
PCB-1242 Peak 3	3.037										3.003 - 3.063	3.037
PCB-1242 Peak 4	3.121										3.089 - 3.149	3.121
PCB-1268 Peak 1	5.235										5.205 - 5.265	5.235
PCB-1268 Peak 2	5.458										5.428 - 5.488	5.458
PCB-1268 Peak 3	5.925										5.895 - 5.955	5.925
PCB-1268 Peak 4	6.223										6.193 - 6.253	6.223

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 18:12 Calibration End Date: 08/01/2015 18:12 Calibration ID: 24345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/22	12_339_312.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	121108				Ave		121108.000						20.0			
PCB-1242 Peak 2	194096				Ave		194096.000						20.0			
PCB-1242 Peak 3	102084				Ave		102084.000						20.0			
PCB-1242 Peak 4	70920				Ave		70920.0000						20.0			
PCB-1268 Peak 1	441680				Ave		441680.000						20.0			
PCB-1268 Peak 2	332632				Ave		332632.000						20.0			
PCB-1268 Peak 3	973310				Ave		973310.000						20.0			
PCB-1268 Peak 4	251294				Ave		251294.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 18:12 Calibration End Date: 08/01/2015 18:12 Calibration ID: 24345

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/22	12_339_312.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	60554					0.500				
PCB-1242 Peak 2	Ave	97048					0.500				
PCB-1242 Peak 3	Ave	51042					0.500				
PCB-1242 Peak 4	Ave	35460					0.500				
PCB-1268 Peak 1	Ave	220840					0.500				
PCB-1268 Peak 2	Ave	166316					0.500				
PCB-1268 Peak 3	Ave	486655					0.500				
PCB-1268 Peak 4	Ave	125647					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_312.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 18:12:48 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub40
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:23 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd Date: 03-Aug-2015 16:51:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.255	2.251	0.004	60554	0.5000	0.5000	
1	2.591	2.590	0.001	97048	0.5000	0.5000	
1	3.037	3.033	0.004	51042	0.5000	0.5000	
1	3.121	3.119	0.002	35460	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.976	1.974	0.002	49434	0.5000	0.5000	
2	2.270	2.267	0.003	62501	0.5000	0.5000	
2	2.837	2.835	0.002	23963	0.5000	0.5000	
2	2.975	2.973	0.002	32260	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.235	5.235	0.000	220840	0.5000	0.5000	
1	5.458	5.458	0.000	166316	0.5000	0.5000	
1	5.925	5.925	0.000	486655	0.5000	0.5000	
1	6.223	6.223	0.000	125647	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	4.111	4.110	0.001	29472	0.5000	0.5000	
2	4.801	4.801	0.000	170908	0.5000	0.5000	
2	5.447	5.447	0.000	367754	0.5000	0.5000	
2	5.677	5.675	0.002	92876	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

42-68w/IS@0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:24

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_312.D

Injection Date: 01-Aug-2015 18:12:48

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

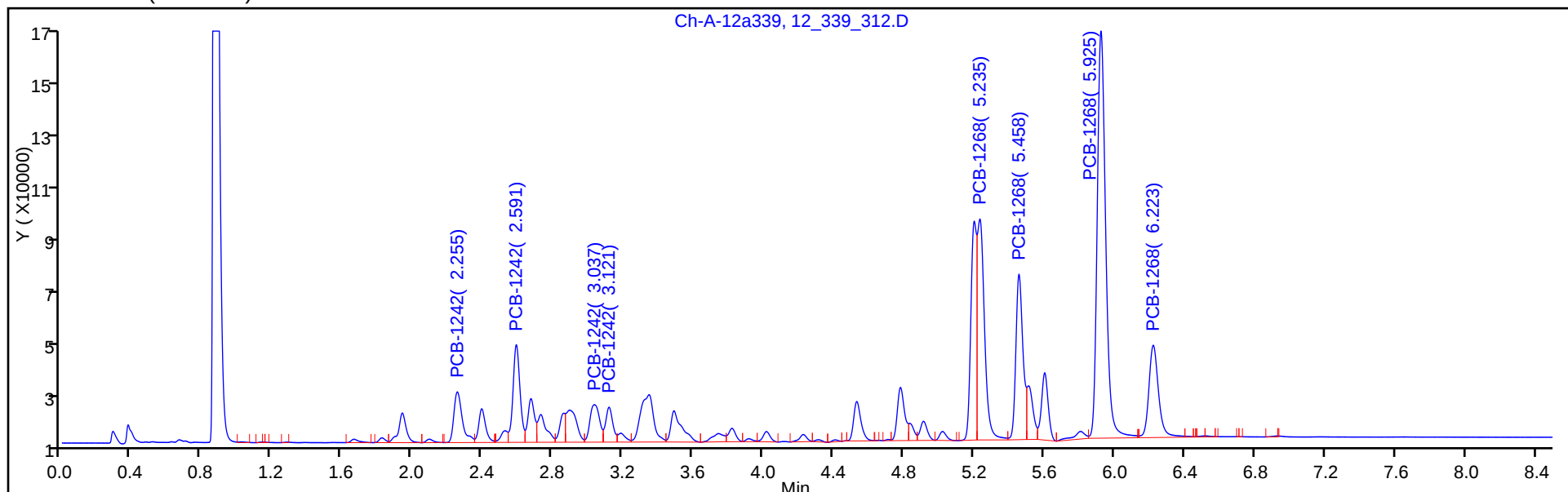
Dil. Factor: 1.0000

ALS Bottle#: 0

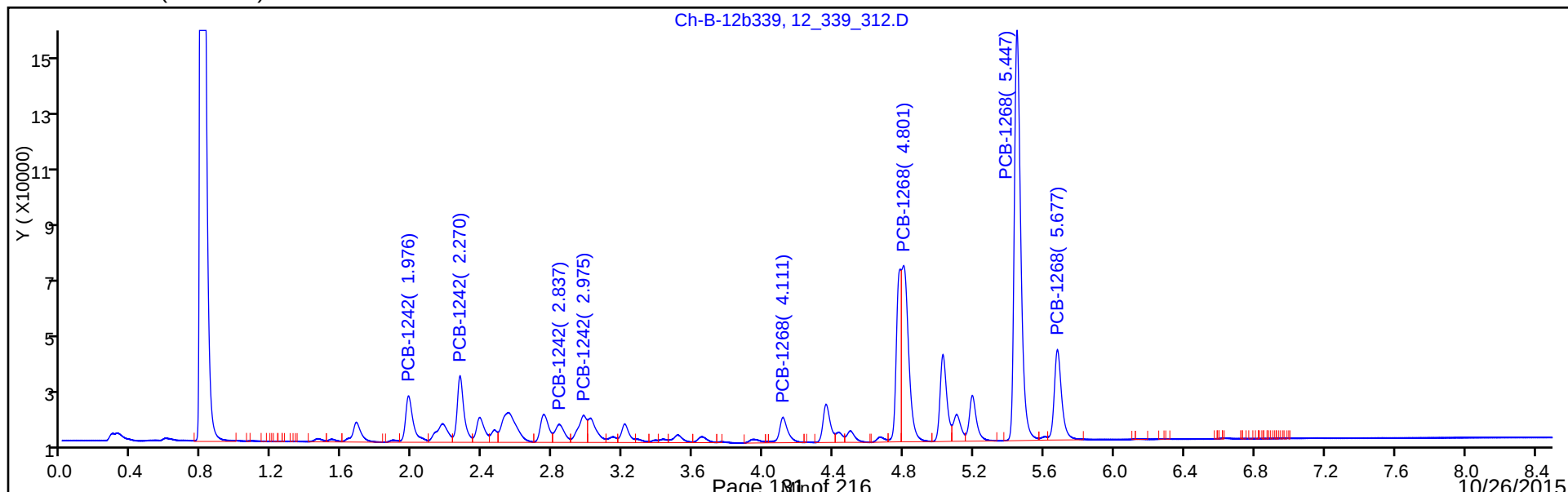
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 18:12 Calibration End Date: 08/01/2015 18:12 Calibration ID: 24346

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/22	12_339_312.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	1.976										1.944 - 2.004	1.976
PCB-1242 Peak 2	2.270										2.237 - 2.297	2.270
PCB-1242 Peak 3	2.837										2.805 - 2.865	2.837
PCB-1242 Peak 4	2.975										2.943 - 3.003	2.975
PCB-1268 Peak 1	4.111										4.080 - 4.140	4.111
PCB-1268 Peak 2	4.801										4.771 - 4.831	4.801
PCB-1268 Peak 3	5.447										5.417 - 5.477	5.447
PCB-1268 Peak 4	5.677										5.645 - 5.705	5.677

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 18:12 Calibration End Date: 08/01/2015 18:12 Calibration ID: 24346

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/22	12_339_312.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	98868				Ave		98868.0000						20.0			
PCB-1242 Peak 2	125002				Ave		125002.000						20.0			
PCB-1242 Peak 3	47926				Ave		47926.0000						20.0			
PCB-1242 Peak 4	64520				Ave		64520.0000						20.0			
PCB-1268 Peak 1	58944				Ave		58944.0000						20.0			
PCB-1268 Peak 2	341816				Ave		341816.000						20.0			
PCB-1268 Peak 3	735508				Ave		735508.000						20.0			
PCB-1268 Peak 4	185752				Ave		185752.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 18:12 Calibration End Date: 08/01/2015 18:12 Calibration ID: 24346

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/22	12_339_312.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	49434					0.500				
PCB-1242 Peak 2	Ave	62501					0.500				
PCB-1242 Peak 3	Ave	23963					0.500				
PCB-1242 Peak 4	Ave	32260					0.500				
PCB-1268 Peak 1	Ave	29472					0.500				
PCB-1268 Peak 2	Ave	170908					0.500				
PCB-1268 Peak 3	Ave	367754					0.500				
PCB-1268 Peak 4	Ave	92876					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_312.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 18:12:48 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub40
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:23 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 03-Aug-2015 16:51:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.255	2.251	0.004	60554	0.5000	0.5000	
1	2.591	2.590	0.001	97048	0.5000	0.5000	
1	3.037	3.033	0.004	51042	0.5000	0.5000	
1	3.121	3.119	0.002	35460	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.976	1.974	0.002	49434	0.5000	0.5000	
2	2.270	2.267	0.003	62501	0.5000	0.5000	
2	2.837	2.835	0.002	23963	0.5000	0.5000	
2	2.975	2.973	0.002	32260	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.235	5.235	0.000	220840	0.5000	0.5000	
1	5.458	5.458	0.000	166316	0.5000	0.5000	
1	5.925	5.925	0.000	486655	0.5000	0.5000	
1	6.223	6.223	0.000	125647	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	4.111	4.110	0.001	29472	0.5000	0.5000	
2	4.801	4.801	0.000	170908	0.5000	0.5000	
2	5.447	5.447	0.000	367754	0.5000	0.5000	
2	5.677	5.675	0.002	92876	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

42-68w/IS@0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:24

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_312.D

Injection Date: 01-Aug-2015 18:12:48

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

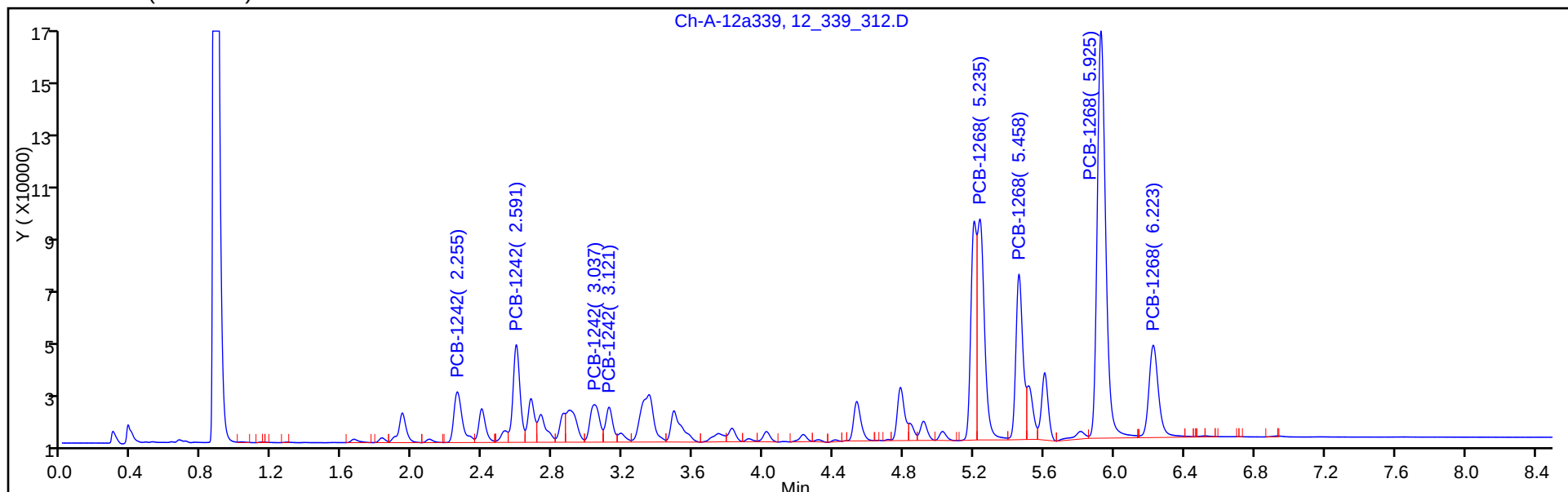
Dil. Factor: 1.0000

ALS Bottle#: 0

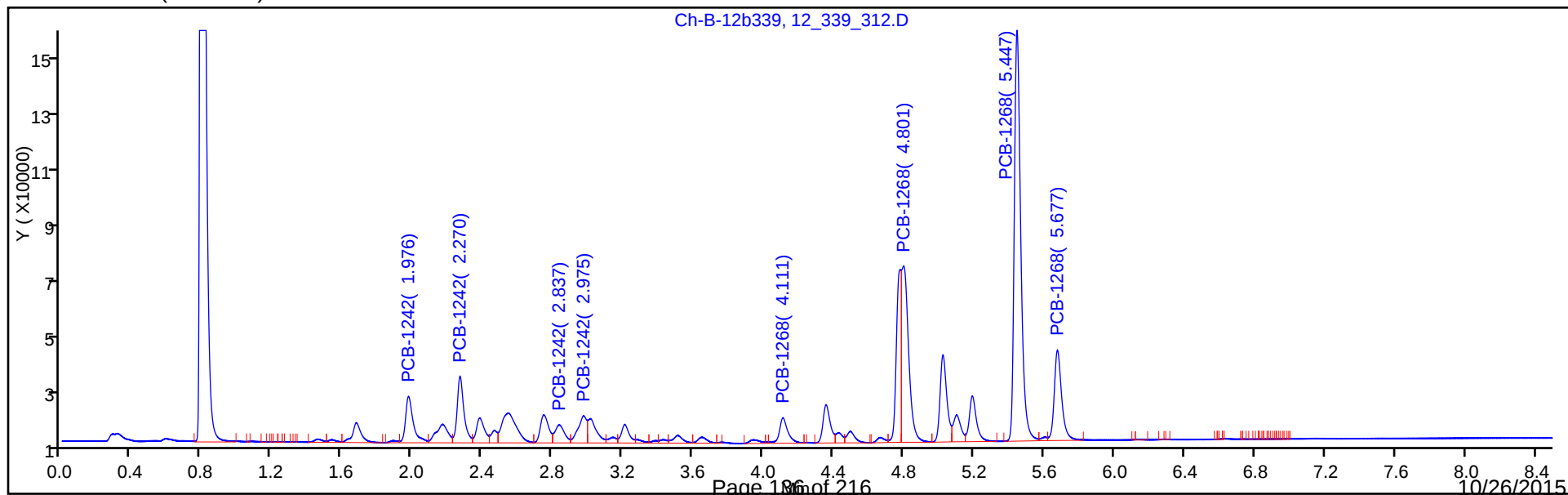
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 19:27 Calibration End Date: 08/01/2015 19:27 Calibration ID: 24351

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/27	12_339_317.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	3.028										2.993 - 3.053	3.028
PCB-1248 Peak 2	3.119										3.085 - 3.145	3.119
PCB-1248 Peak 3	3.349										3.314 - 3.374	3.349
PCB-1248 Peak 4	3.491										3.456 - 3.516	3.491

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 19:27 Calibration End Date: 08/01/2015 19:27 Calibration ID: 24351

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/27	12_339_317.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	140246				Ave		140246.000						20.0			
PCB-1248 Peak 2	106608				Ave		106608.000						20.0			
PCB-1248 Peak 3	309982				Ave		309982.000						20.0			
PCB-1248 Peak 4	89716				Ave		89716.0000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 19:27 Calibration End Date: 08/01/2015 19:27 Calibration ID: 24351

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/27	12_339_317.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	70123					0.500				
PCB-1248 Peak 2	Ave	53304					0.500				
PCB-1248 Peak 3	Ave	154991					0.500				
PCB-1248 Peak 4	Ave	44858					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_317.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 19:27:22 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:29 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 04-Aug-2015 08:46:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.028	3.023	0.005	70123	0.5000	0.5000	
1	3.119	3.115	0.004	53304	0.5000	0.5000	
1	3.349	3.344	0.005	154991	0.5000	0.5000	
1	3.491	3.486	0.005	44858	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.745	2.737	0.008	47050	0.5000	0.5000	
2	2.835	2.831	0.004	37689	0.5000	0.5000	
2	2.974	2.969	0.005	58026	0.5000	0.5000	
2	3.209	3.202	0.007	38563	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1248w/IS@ 0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:30

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_317.D

Injection Date: 01-Aug-2015 19:27:22

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

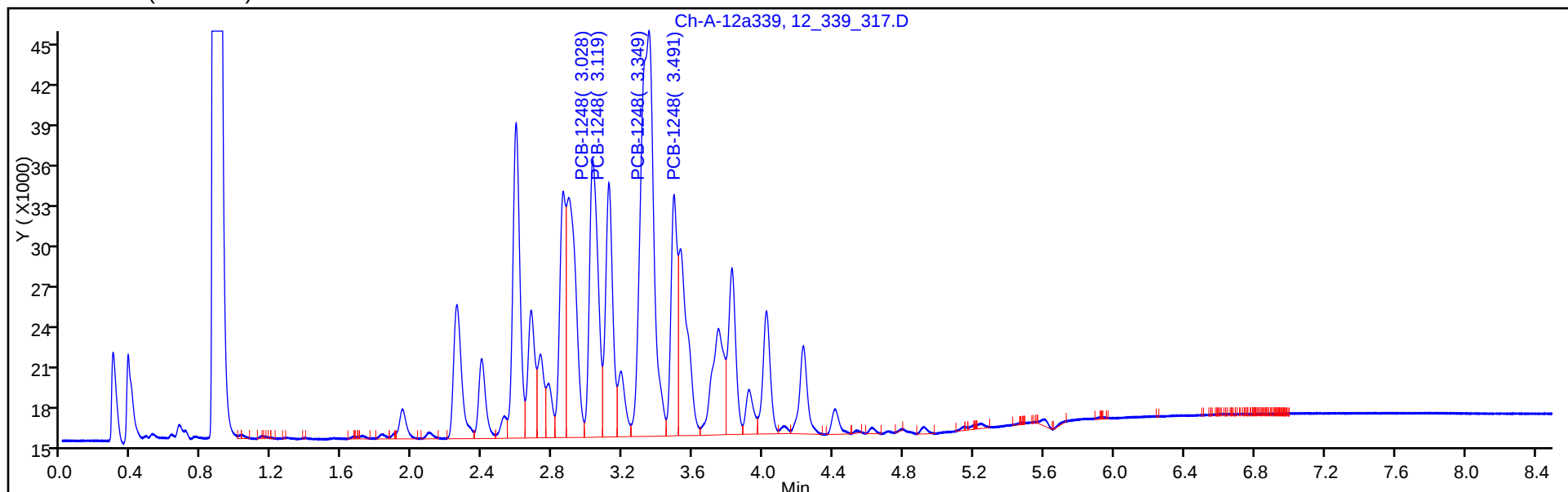
Dil. Factor: 1.0000

ALS Bottle#: 0

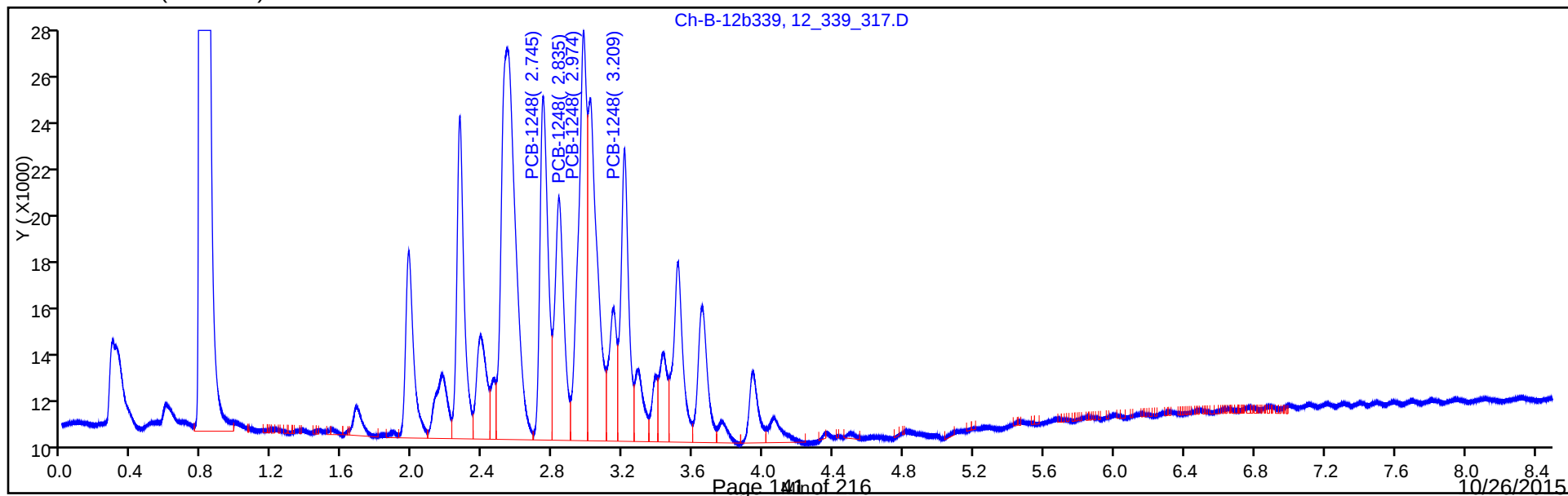
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 19:27 Calibration End Date: 08/01/2015 19:27 Calibration ID: 24352

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/27	12_339_317.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	2.745										2.707 - 2.767	2.745
PCB-1248 Peak 2	2.835										2.801 - 2.861	2.835
PCB-1248 Peak 3	2.974										2.939 - 2.999	2.974
PCB-1248 Peak 4	3.209										3.172 - 3.232	3.209

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 19:27 Calibration End Date: 08/01/2015 19:27 Calibration ID: 24352

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/27	12_339_317.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	94100				Ave		94100.0000						20.0			
PCB-1248 Peak 2	75378				Ave		75378.0000						20.0			
PCB-1248 Peak 3	116052				Ave		116052.0000						20.0			
PCB-1248 Peak 4	77126				Ave		77126.0000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1 Analy Batch No.: 256564

SDG No.: _____

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2015 19:27 Calibration End Date: 08/01/2015 19:27 Calibration ID: 24352

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-256564/27	12_339_317.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	47050					0.500				
PCB-1248 Peak 2	Ave	37689					0.500				
PCB-1248 Peak 3	Ave	58026					0.500				
PCB-1248 Peak 4	Ave	38563					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_317.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2015 19:27:22 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 04-Aug-2015 09:08:29 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK005

First Level Reviewer: eversd

Date: 04-Aug-2015 08:46:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.028	3.023	0.005	70123	0.5000	0.5000
1	3.119	3.115	0.004	53304	0.5000	0.5000
1	3.349	3.344	0.005	154991	0.5000	0.5000
1	3.491	3.486	0.005	44858	0.5000	0.5000

Average of Peak Amounts = 0.5000

2	2.745	2.737	0.008	47050	0.5000	0.5000
2	2.835	2.831	0.004	37689	0.5000	0.5000
2	2.974	2.969	0.005	58026	0.5000	0.5000
2	3.209	3.202	0.007	38563	0.5000	0.5000

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1248w/IS@ 0.5_00002

Amount Added: 1.00

Units: mL

Report Date: 04-Aug-2015 09:08:30

Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_317.D

Injection Date: 01-Aug-2015 19:27:22

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: IC 2

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

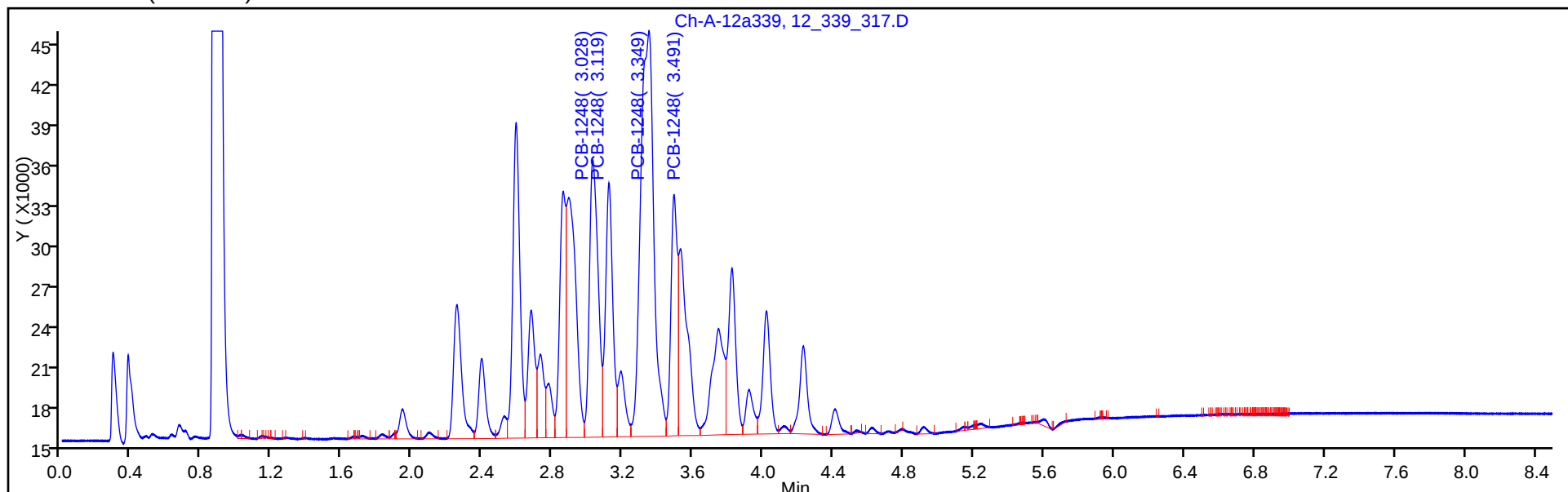
Dil. Factor: 1.0000

ALS Bottle#: 0

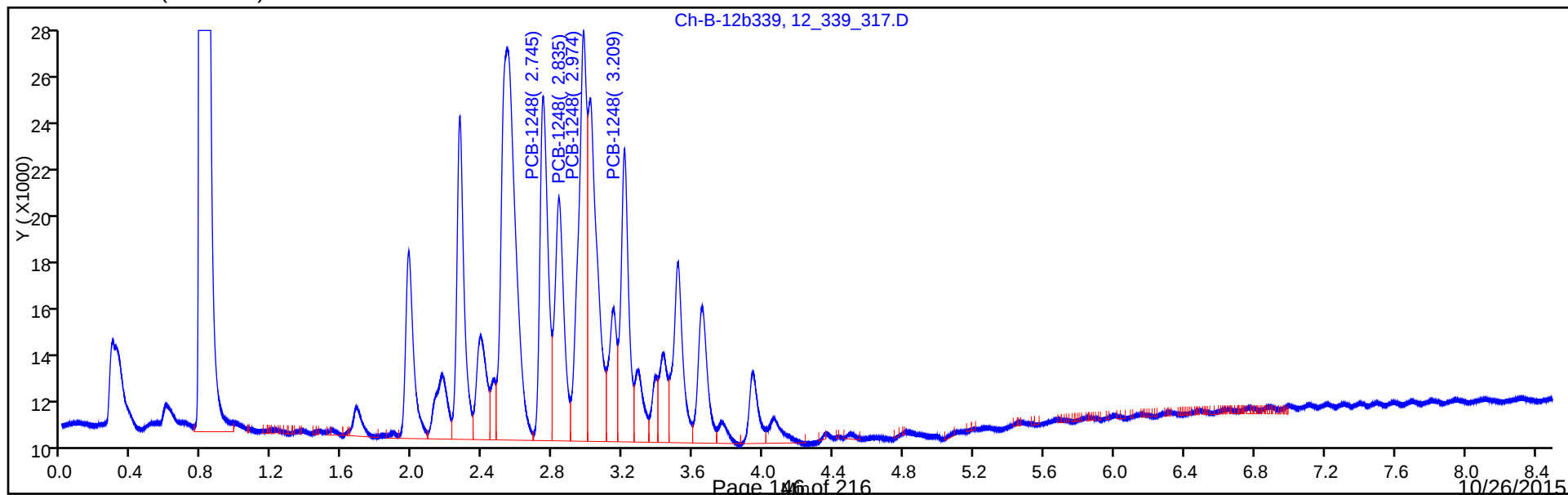
Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270588/4 Calibration Date: 10/23/2015 07:32
 Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
 GC Column: ZB-5 ID: 0.25 (mm) Calib End Date: 08/01/2015 14:43
 Lab File ID: 12_347_264.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	142733	132402		0.464	0.500	-7.2	20.0
PCB-1016 Peak 2	Ave	83149	79134		0.476	0.500	-4.8	20.0
PCB-1016 Peak 3	Ave	238714	212070		0.444	0.500	-11.2	20.0
PCB-1016 Peak 4	Ave	103387	93854		0.454	0.500	-9.2	20.0
PCB-1260 Peak 1	Ave	257130	238612		0.464	0.500	-7.2	20.0
PCB-1260 Peak 2	Ave	221133	208464		0.471	0.500	-5.7	20.0
PCB-1260 Peak 3	Ave	222135	191300		0.431	0.500	-13.9	20.0
PCB-1260 Peak 4	Ave	301440	264528		0.439	0.500	-12.2	20.0
Tetrachloro-m-xylene	Ave	2805591	2461433		0.0263	0.0300	-12.3	20.0
DCB Decachlorobiphenyl	Ave	3471649	2640067		0.0228	0.0300	-24.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Lab Sample ID: CCV 480-270588/4 Calibration Date: 10/23/2015 07:32
Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
GC Column: ZB-5 ID: 0.25 (mm) Calib End Date: 08/01/2015 14:43
Lab File ID: 12_347_264.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.22	2.19	2.25
PCB-1016 Peak 2	2.36	2.33	2.39
PCB-1016 Peak 3	2.55	2.52	2.58
PCB-1016 Peak 4	2.64	2.61	2.67
PCB-1260 Peak 1	4.17	4.14	4.20
PCB-1260 Peak 2	4.38	4.35	4.41
PCB-1260 Peak 3	4.51	4.48	4.54
PCB-1260 Peak 4	4.90	4.87	4.93
Tetrachloro-m-xylene	1.66	1.63	1.69
DCB Decachlorobiphenyl	6.21	6.18	6.24

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_264.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Oct-2015 07:32:47 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:59:42 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:59:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.655	1.655	0.000	73843	0.0300	0.0263	
2	1.283	1.283	0.000	41848	0.0300	0.0278	

RPD = 5.61

6 PCB-1016

M

1	2.218	2.218	0.000	66201	0.5000	0.4638	M
1	2.356	2.356	0.000	39567	0.5000	0.4759	
1	2.553	2.553	0.000	106035	0.5000	0.4442	
1	2.637	2.637	0.000	46927	0.5000	0.4539	

Average of Peak Amounts = 0.4594

2	1.945	1.945	0.000	58985	0.5000	0.4938	
2	2.234	2.234	0.000	72896	0.5000	0.4851	
2	2.347	2.347	0.000	32908	0.5000	0.4712	
2	2.711	2.711	0.000	37137	0.5000	0.5072	

Average of Peak Amounts = 0.4893

RPD = 6.30

9 PCB-1260

M

1	4.168	4.168	0.000	119306	0.5000	0.4640	
1	4.384	4.384	0.000	104232	0.5000	0.4714	
1	4.514	4.514	0.000	95650	0.5000	0.4306	
1	4.895	4.895	0.000	132264	0.5000	0.4388	

Average of Peak Amounts = 0.4512

2	4.034	4.034	0.000	77916	0.5000	0.4957	
2	4.337	4.337	0.000	43675	0.5000	0.4706	
2	4.473	4.473	0.000	110447	0.5000	0.5157	
2	4.788	4.788	0.000	94000	0.5000	0.5133	M

Average of Peak Amounts = 0.4988

RPD = 10.03

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5890-12\\20151023-47583.b\\12_347_264.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.212	6.212	0.000	79202	0.0300	0.0228	
2	5.663	5.663	0.000	69927	0.0300	0.0265	

RPD = 14.80

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:59:42

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_264.D

Injection Date: 23-Oct-2015 07:32:47

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

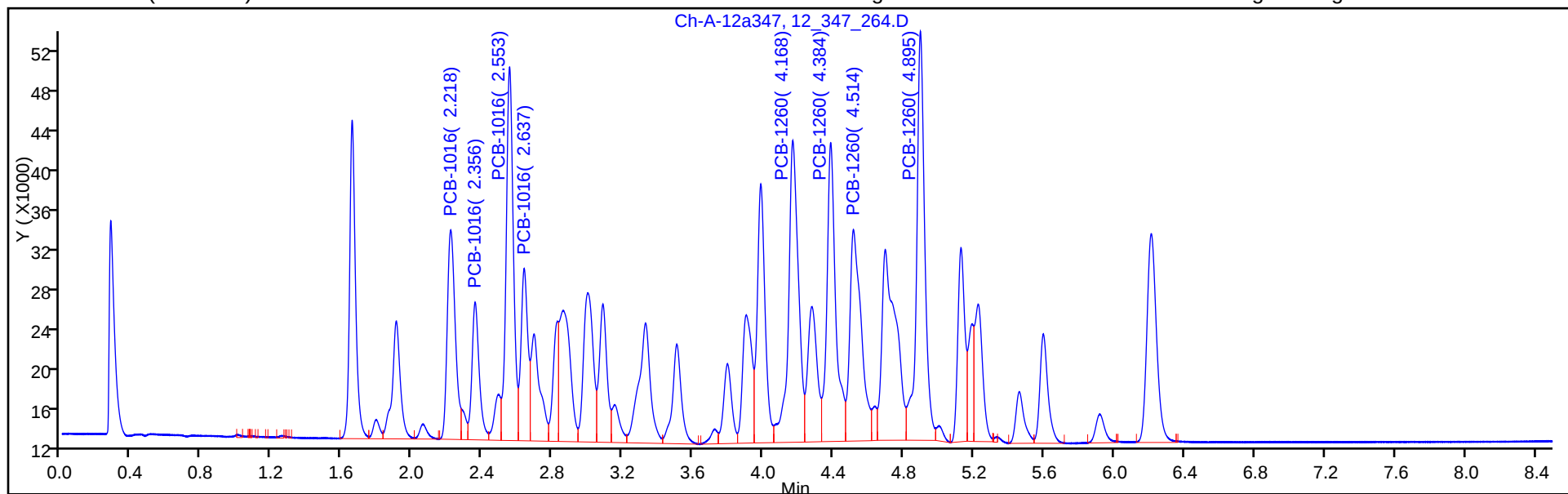
ALS Bottle#: 0

Method: hp12_pcb

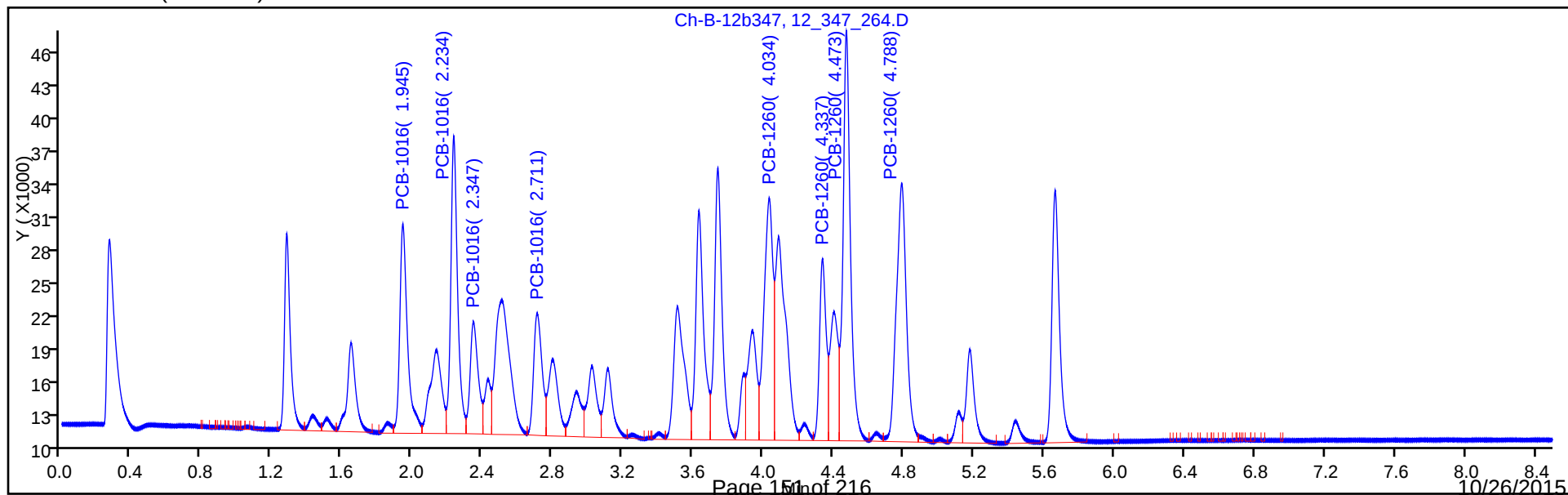
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_264.D

Injection Date: 23-Oct-2015 07:32:47

Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

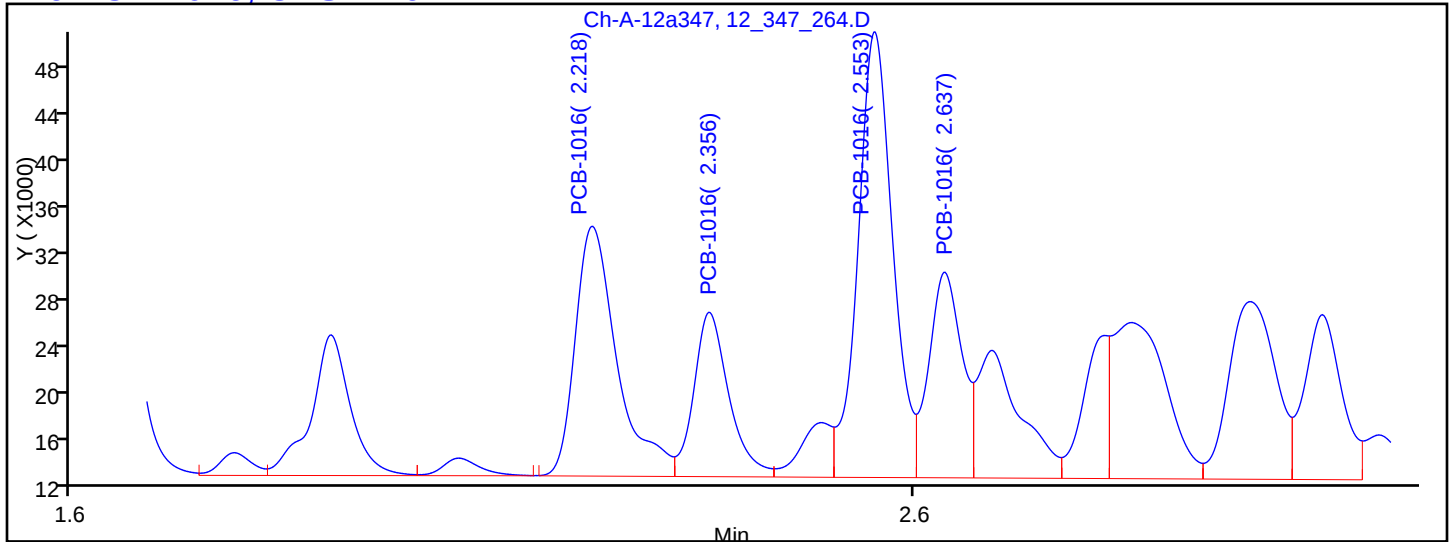
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

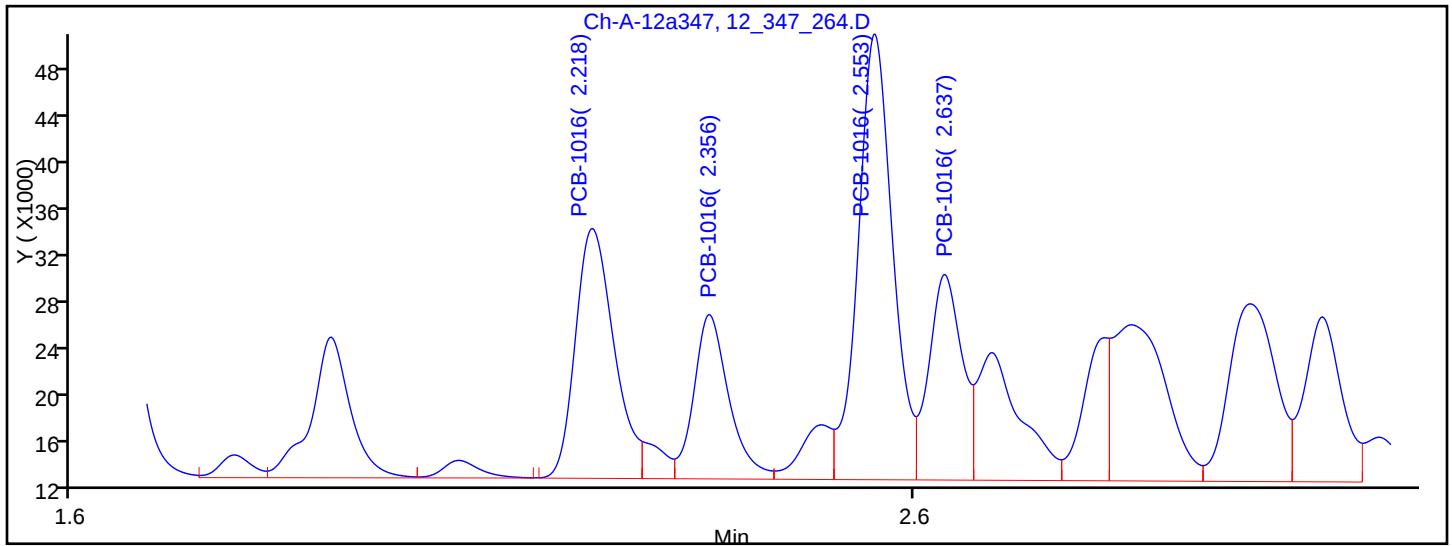
Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.218	Response = 71804	M
RT = 2.356	Response = 39567	
RT = 2.553	Response = 106035	
RT = 2.637	Response = 46927	



Manual Integration Results

RT = 2.218	Response = 66201	M
RT = 2.356	Response = 39567	
RT = 2.553	Response = 106035	
RT = 2.637	Response = 46927	

Reviewer: sobolk, 23-Oct-2015 07:50:00

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270588/4 Calibration Date: 10/23/2015 07:32
 Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 08/01/2015 14:43
 Lab File ID: 12_347_264.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	119453	117970		0.494	0.500	-1.2	20.0
PCB-1016 Peak 2	Ave	150255	145792		0.485	0.500	-3.0	20.0
PCB-1016 Peak 3	Ave	69844	65816		0.471	0.500	-5.8	20.0
PCB-1016 Peak 4	Ave	73226	74274		0.507	0.500	1.4	20.0
PCB-1260 Peak 1	Ave	157198	155832		0.496	0.500	-0.9	20.0
PCB-1260 Peak 2	Ave	92802	87350		0.471	0.500	-5.9	20.0
PCB-1260 Peak 3	Ave	214168	220894		0.516	0.500	3.1	20.0
PCB-1260 Peak 4	Ave	183120	188000		0.513	0.500	2.7	20.0
Tetrachloro-m-xylene	Ave	1503189	1394933		0.0278	0.0300	-7.2	20.0
DCB Decachlorobiphenyl	Ave	2642617	2330900		0.0265	0.0300	-11.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Lab Sample ID: CCV 480-270588/4 Calibration Date: 10/23/2015 07:32
Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 08/01/2015 14:43
Lab File ID: 12_347_264.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.95	1.92	1.98
PCB-1016 Peak 2	2.23	2.20	2.26
PCB-1016 Peak 3	2.35	2.32	2.38
PCB-1016 Peak 4	2.71	2.68	2.74
PCB-1260 Peak 1	4.03	4.00	4.06
PCB-1260 Peak 2	4.34	4.31	4.37
PCB-1260 Peak 3	4.47	4.44	4.50
PCB-1260 Peak 4	4.79	4.76	4.82
Tetrachloro-m-xylene	1.28	1.25	1.31
DCB Decachlorobiphenyl	5.66	5.63	5.69

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_264.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Oct-2015 07:32:47 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:59:42 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:59:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.655	1.655	0.000	73843	0.0300	0.0263	
2	1.283	1.283	0.000	41848	0.0300	0.0278	

RPD = 5.61

6 PCB-1016

M

1	2.218	2.218	0.000	66201	0.5000	0.4638	M
1	2.356	2.356	0.000	39567	0.5000	0.4759	
1	2.553	2.553	0.000	106035	0.5000	0.4442	
1	2.637	2.637	0.000	46927	0.5000	0.4539	

Average of Peak Amounts = 0.4594

2	1.945	1.945	0.000	58985	0.5000	0.4938	
2	2.234	2.234	0.000	72896	0.5000	0.4851	
2	2.347	2.347	0.000	32908	0.5000	0.4712	
2	2.711	2.711	0.000	37137	0.5000	0.5072	

Average of Peak Amounts = 0.4893

RPD = 6.30

9 PCB-1260

M

1	4.168	4.168	0.000	119306	0.5000	0.4640	
1	4.384	4.384	0.000	104232	0.5000	0.4714	
1	4.514	4.514	0.000	95650	0.5000	0.4306	
1	4.895	4.895	0.000	132264	0.5000	0.4388	

Average of Peak Amounts = 0.4512

2	4.034	4.034	0.000	77916	0.5000	0.4957	
2	4.337	4.337	0.000	43675	0.5000	0.4706	
2	4.473	4.473	0.000	110447	0.5000	0.5157	
2	4.788	4.788	0.000	94000	0.5000	0.5133	M

Average of Peak Amounts = 0.4988

RPD = 10.03

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5890-12\\20151023-47583.b\\12_347_264.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.212	6.212	0.000	79202	0.0300	0.0228	
2	5.663	5.663	0.000	69927	0.0300	0.0265	

RPD = 14.80

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:59:43

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_264.D

Injection Date: 23-Oct-2015 07:32:47

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

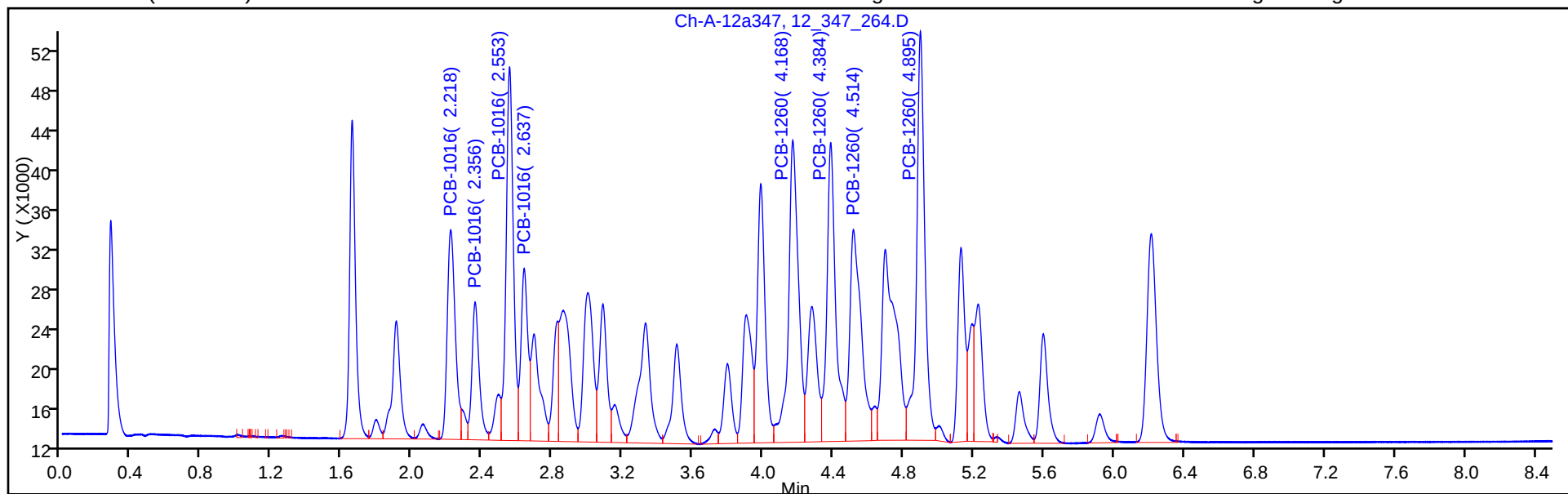
ALS Bottle#: 0

Method: hp12_pcb

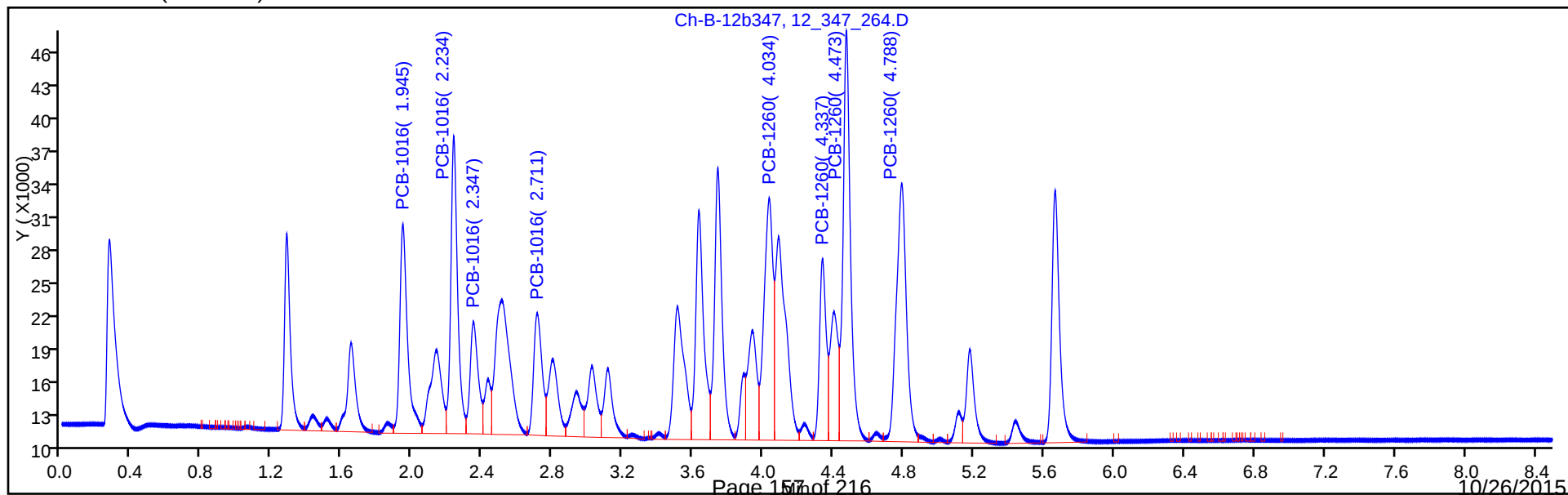
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_264.D

Injection Date: 23-Oct-2015 07:32:47

Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

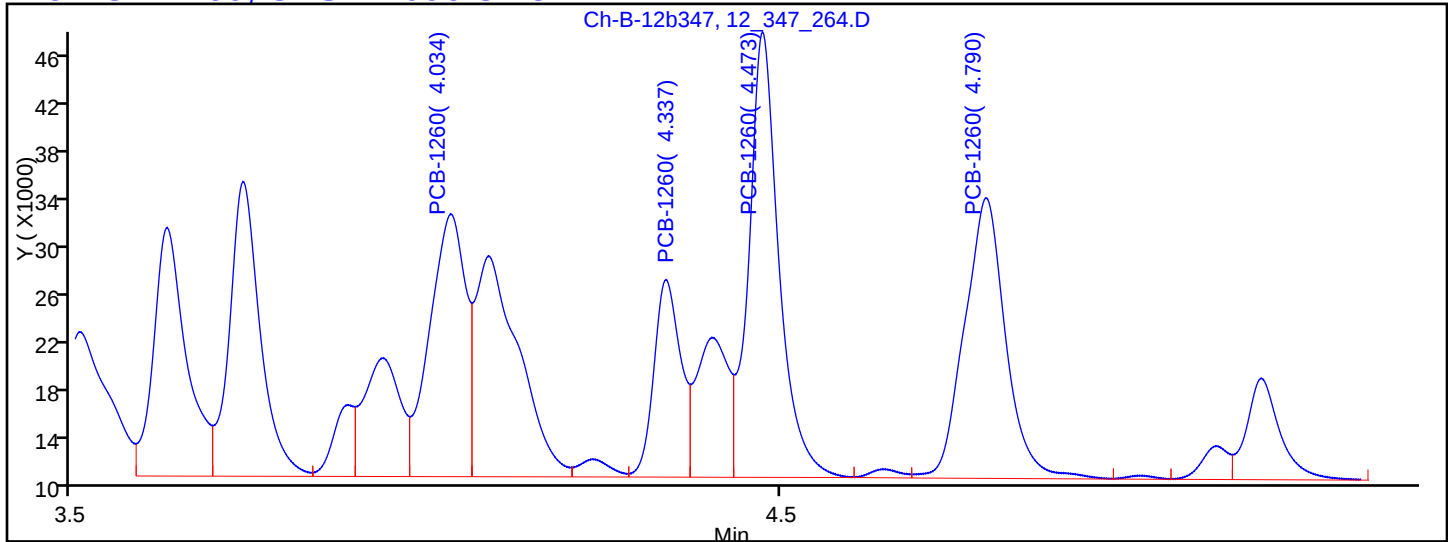
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

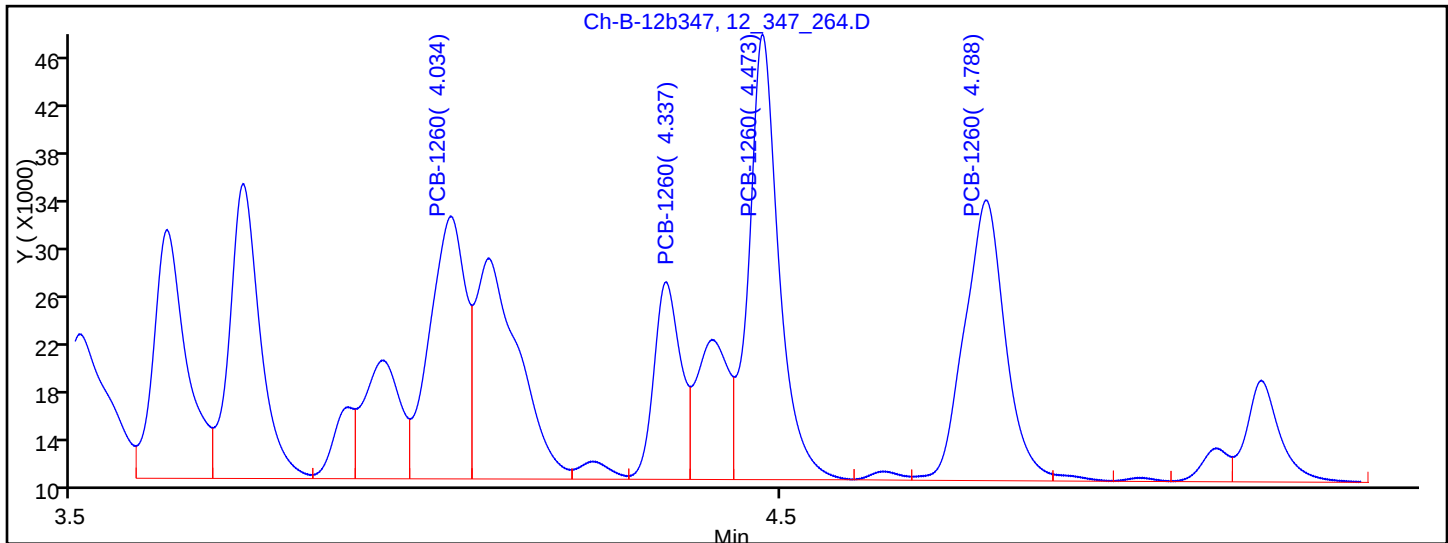
Detector: Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.034	Response = 77916
RT = 4.337	Response = 43675
RT = 4.473	Response = 110447
RT = 4.790	Response = 95422

M



Manual Integration Results

RT = 4.034	Response = 77916
RT = 4.337	Response = 43675
RT = 4.473	Response = 110447
RT = 4.788	Response = 94000

M

Reviewer: sobolk, 23-Oct-2015 07:50:00

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270588/12 Calibration Date: 10/23/2015 09:31
 Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
 GC Column: ZB-5 ID: 0.25 (mm) Calib End Date: 08/01/2015 14:43
 Lab File ID: 12_347_272.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	142733	133570		0.468	0.500	-6.4	20.0
PCB-1016 Peak 2	Ave	83149	78892		0.474	0.500	-5.1	20.0
PCB-1016 Peak 3	Ave	238714	213694		0.448	0.500	-10.5	20.0
PCB-1016 Peak 4	Ave	103387	93726		0.453	0.500	-9.3	20.0
PCB-1260 Peak 1	Ave	257130	248658		0.484	0.500	-3.3	20.0
PCB-1260 Peak 2	Ave	221133	216970		0.491	0.500	-1.9	20.0
PCB-1260 Peak 3	Ave	222135	201434		0.453	0.500	-9.3	20.0
PCB-1260 Peak 4	Ave	301440	279660		0.464	0.500	-7.2	20.0
Tetrachloro-m-xylene	Ave	2805591	2515967		0.0269	0.0300	-10.3	20.0
DCB Decachlorobiphenyl	Ave	3471649	2711567		0.0234	0.0300	-21.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270588/12 Calibration Date: 10/23/2015 09:31
 Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
 GC Column: ZB-5 ID: 0.25 (mm) Calib End Date: 08/01/2015 14:43
 Lab File ID: 12_347_272.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.21	2.18	2.24
PCB-1016 Peak 2	2.35	2.32	2.38
PCB-1016 Peak 3	2.55	2.52	2.58
PCB-1016 Peak 4	2.63	2.60	2.66
PCB-1260 Peak 1	4.16	4.13	4.19
PCB-1260 Peak 2	4.38	4.35	4.41
PCB-1260 Peak 3	4.51	4.48	4.54
PCB-1260 Peak 4	4.89	4.86	4.92
Tetrachloro-m-xylene	1.65	1.62	1.68
DCB Decachlorobiphenyl	6.21	6.18	6.24

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Oct-2015 09:31:16 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:55:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.652	1.652	0.000	75479	0.0300	0.0269	
2	1.280	1.280	0.000	42424	0.0300	0.0282	

RPD = 4.79

6 PCB-1016

M

1	2.213	2.213	0.000	66785	0.5000	0.4679	M
1	2.352	2.352	0.000	39446	0.5000	0.4744	
1	2.548	2.548	0.000	106847	0.5000	0.4476	
1	2.631	2.631	0.000	46863	0.5000	0.4533	

Average of Peak Amounts = 0.4608

2	1.940	1.940	0.000	59936	0.5000	0.5018	
2	2.230	2.230	0.000	73944	0.5000	0.4921	
2	2.343	2.343	0.000	33146	0.5000	0.4746	
2	2.705	2.705	0.000	37610	0.5000	0.5136	

Average of Peak Amounts = 0.4955

RPD = 7.26

9 PCB-1260

M

1	4.164	4.164	0.000	124329	0.5000	0.4835	
1	4.379	4.379	0.000	108485	0.5000	0.4906	
1	4.511	4.511	0.000	100717	0.5000	0.4534	
1	4.892	4.892	0.000	139830	0.5000	0.4639	

Average of Peak Amounts = 0.4728

2	4.030	4.030	0.000	79320	0.5000	0.5046	
2	4.333	4.333	0.000	44698	0.5000	0.4816	
2	4.470	4.470	0.000	112335	0.5000	0.5245	
2	4.786	4.786	0.000	95957	0.5000	0.5240	M

Average of Peak Amounts = 0.5087

RPD = 7.30

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.207	6.207	0.000	81347	0.0300	0.0234	
2	5.661	5.661	0.000	71269	0.0300	0.0270	

RPD = 14.04

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:55:28

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D

Injection Date: 23-Oct-2015 09:31:16

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

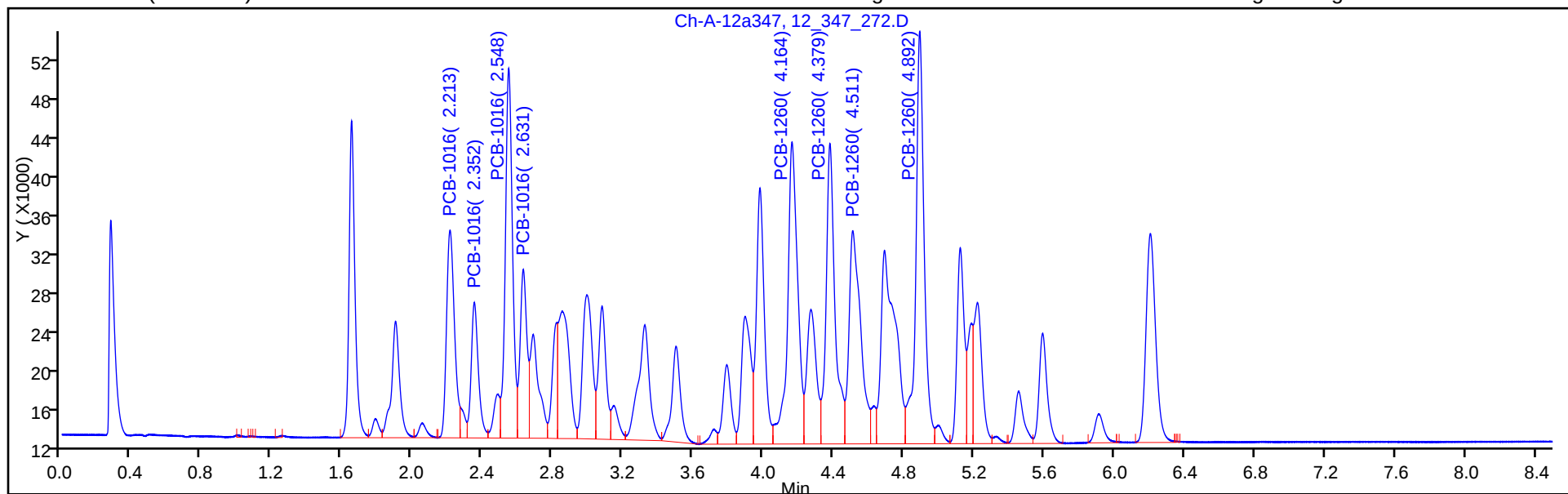
ALS Bottle#: 0

Method: hp12_pcb

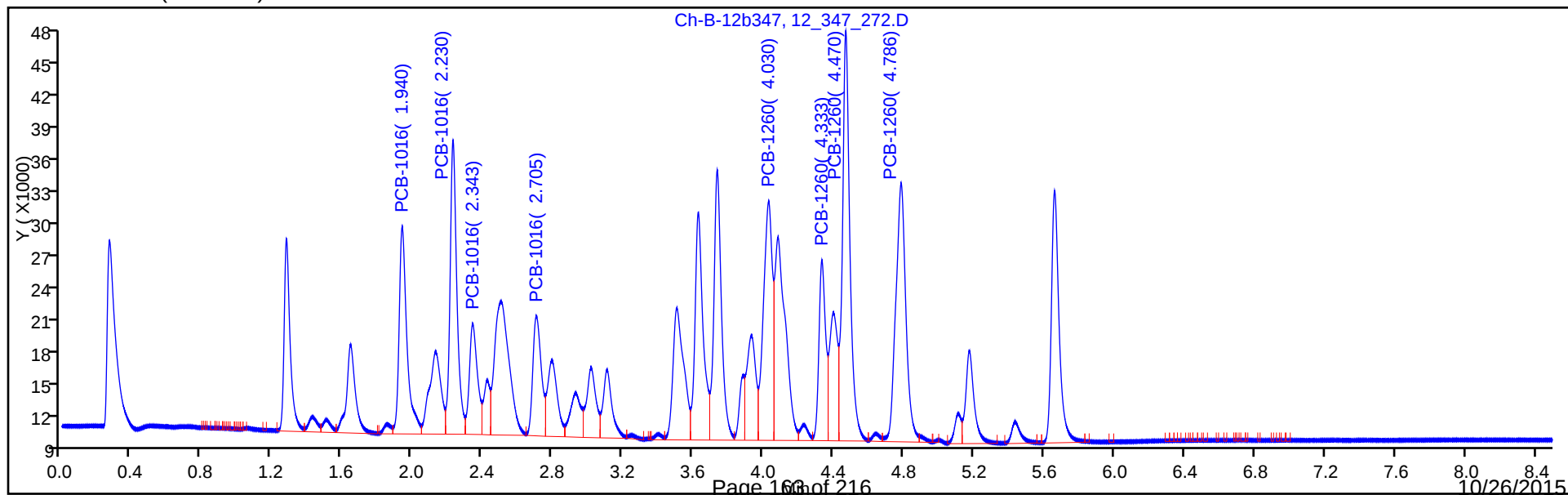
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D

Injection Date: 23-Oct-2015 09:31:16

Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 12

Injection Vol: 1.0 ul

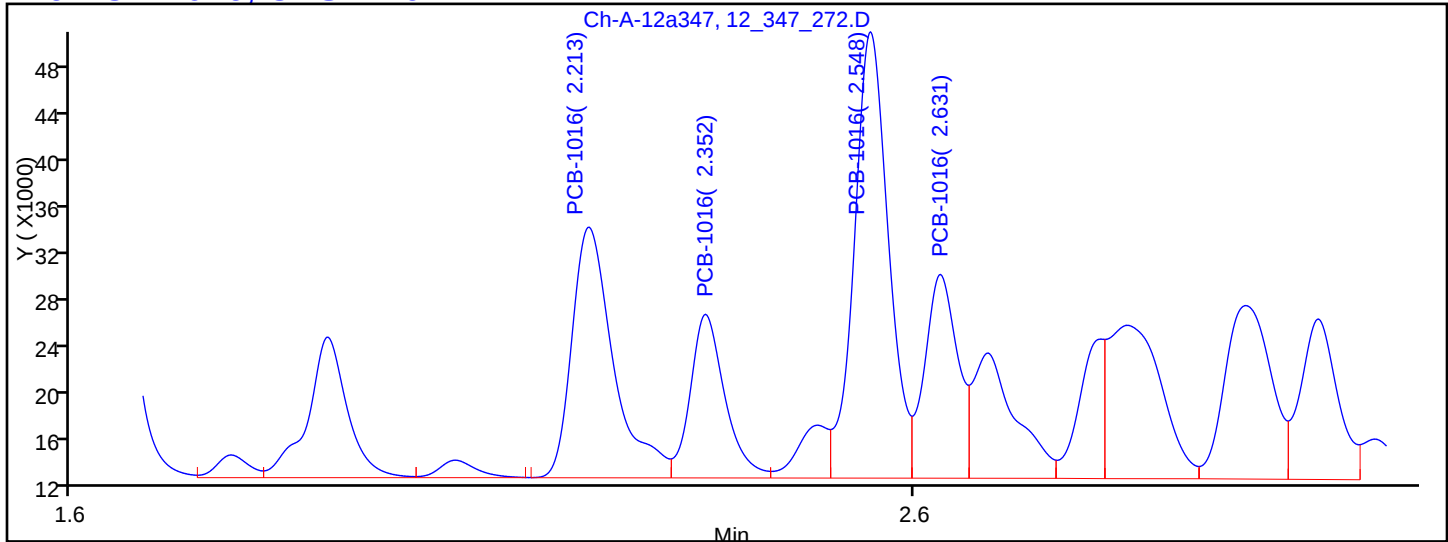
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

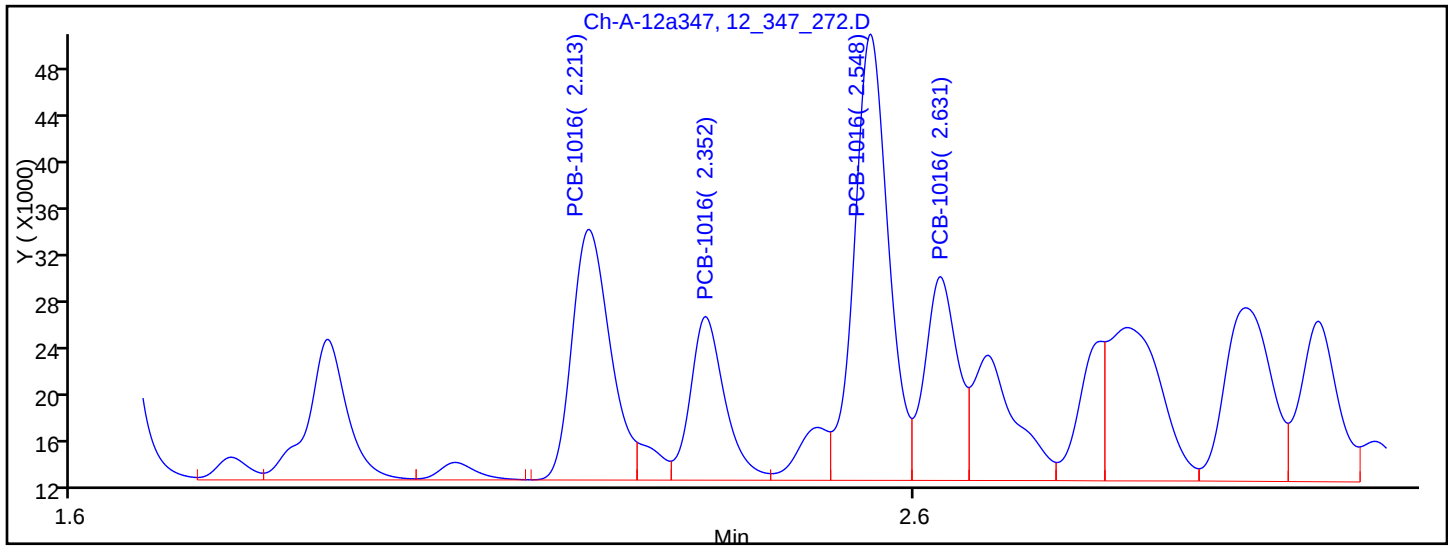
RT = 2.213 Response = 72701

M

RT = 2.352 Response = 39446

RT = 2.548 Response = 106847

RT = 2.631 Response = 46863



Manual Integration Results

RT = 2.213 Response = 66785

M

RT = 2.352 Response = 39446

RT = 2.548 Response = 106847

RT = 2.631 Response = 46863

Reviewer: sobolk, 23-Oct-2015 09:55:28

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270588/12 Calibration Date: 10/23/2015 09:31
 Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 08/01/2015 14:43
 Lab File ID: 12_347_272.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	119453	119872		0.502	0.500	0.4	20.0
PCB-1016 Peak 2	Ave	150255	147888		0.492	0.500	-1.6	20.0
PCB-1016 Peak 3	Ave	69844	66292		0.475	0.500	-5.1	20.0
PCB-1016 Peak 4	Ave	73226	75220		0.514	0.500	2.7	20.0
PCB-1260 Peak 1	Ave	157198	158640		0.505	0.500	0.9	20.0
PCB-1260 Peak 2	Ave	92802	89396		0.482	0.500	-3.7	20.0
PCB-1260 Peak 3	Ave	214168	224670		0.525	0.500	4.9	20.0
PCB-1260 Peak 4	Ave	183120	191914		0.524	0.500	4.8	20.0
Tetrachloro-m-xylene	Ave	1503189	1414133		0.0282	0.0300	-5.9	20.0
DCB Decachlorobiphenyl	Ave	2642617	2375633		0.0270	0.0300	-10.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Lab Sample ID: CCV 480-270588/12 Calibration Date: 10/23/2015 09:31
 Instrument ID: HP5890-12 Calib Start Date: 08/01/2015 13:14
 GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 08/01/2015 14:43
 Lab File ID: 12_347_272.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.94	1.91	1.97
PCB-1016 Peak 2	2.23	2.20	2.26
PCB-1016 Peak 3	2.34	2.31	2.37
PCB-1016 Peak 4	2.71	2.68	2.74
PCB-1260 Peak 1	4.03	4.00	4.06
PCB-1260 Peak 2	4.33	4.30	4.36
PCB-1260 Peak 3	4.47	4.44	4.50
PCB-1260 Peak 4	4.79	4.76	4.82
Tetrachloro-m-xylene	1.28	1.25	1.31
DCB Decachlorobiphenyl	5.66	5.63	5.69

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Oct-2015 09:31:16 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Sublist: chrom-hp12_pcb*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:55:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.652	1.652	0.000	75479	0.0300	0.0269	
2	1.280	1.280	0.000	42424	0.0300	0.0282	

RPD = 4.79

6 PCB-1016

M

1	2.213	2.213	0.000	66785	0.5000	0.4679	M
1	2.352	2.352	0.000	39446	0.5000	0.4744	
1	2.548	2.548	0.000	106847	0.5000	0.4476	
1	2.631	2.631	0.000	46863	0.5000	0.4533	

Average of Peak Amounts = 0.4608

2	1.940	1.940	0.000	59936	0.5000	0.5018	
2	2.230	2.230	0.000	73944	0.5000	0.4921	
2	2.343	2.343	0.000	33146	0.5000	0.4746	
2	2.705	2.705	0.000	37610	0.5000	0.5136	

Average of Peak Amounts = 0.4955

RPD = 7.26

9 PCB-1260

M

1	4.164	4.164	0.000	124329	0.5000	0.4835	
1	4.379	4.379	0.000	108485	0.5000	0.4906	
1	4.511	4.511	0.000	100717	0.5000	0.4534	
1	4.892	4.892	0.000	139830	0.5000	0.4639	

Average of Peak Amounts = 0.4728

2	4.030	4.030	0.000	79320	0.5000	0.5046	
2	4.333	4.333	0.000	44698	0.5000	0.4816	
2	4.470	4.470	0.000	112335	0.5000	0.5245	
2	4.786	4.786	0.000	95957	0.5000	0.5240	M

Average of Peak Amounts = 0.5087

RPD = 7.30

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5890-12\\20151023-47583.b\\12_347_272.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.207	6.207	0.000	81347	0.0300	0.0234	
2	5.661	5.661	0.000	71269	0.0300	0.0270	

RPD = 14.04

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00103

Amount Added: 1.00

Units: mL

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:55:29

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D

Injection Date: 23-Oct-2015 09:31:16

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

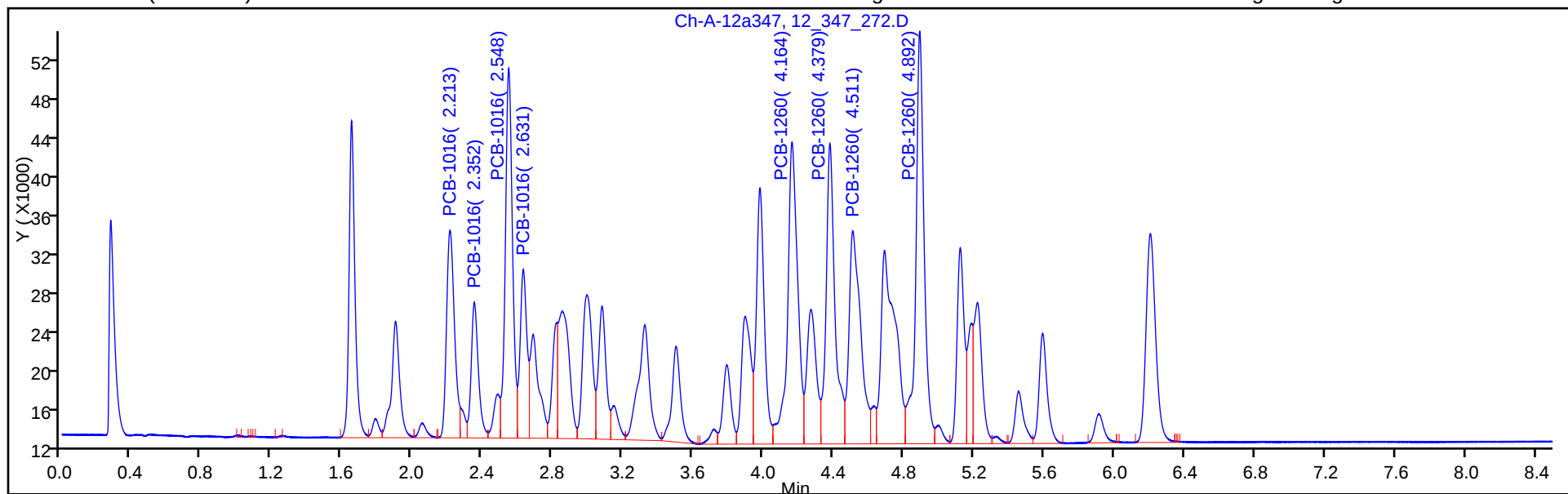
ALS Bottle#: 0

Method: hp12_pcb

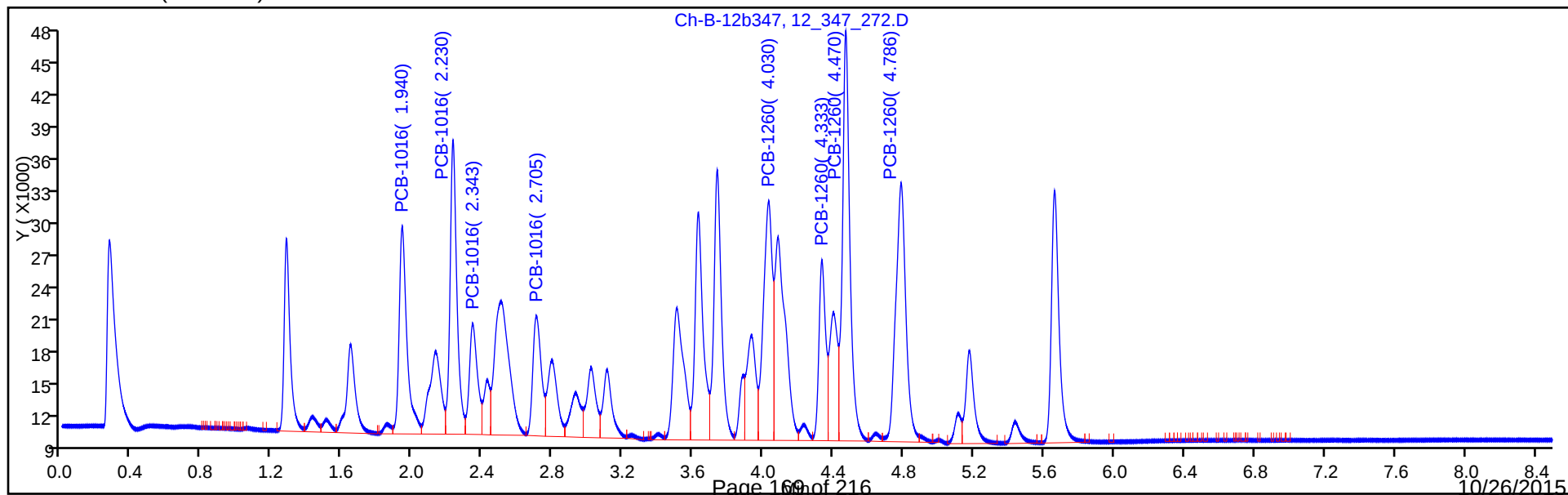
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_272.D

Injection Date: 23-Oct-2015 09:31:16

Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 12

Injection Vol: 1.0 ul

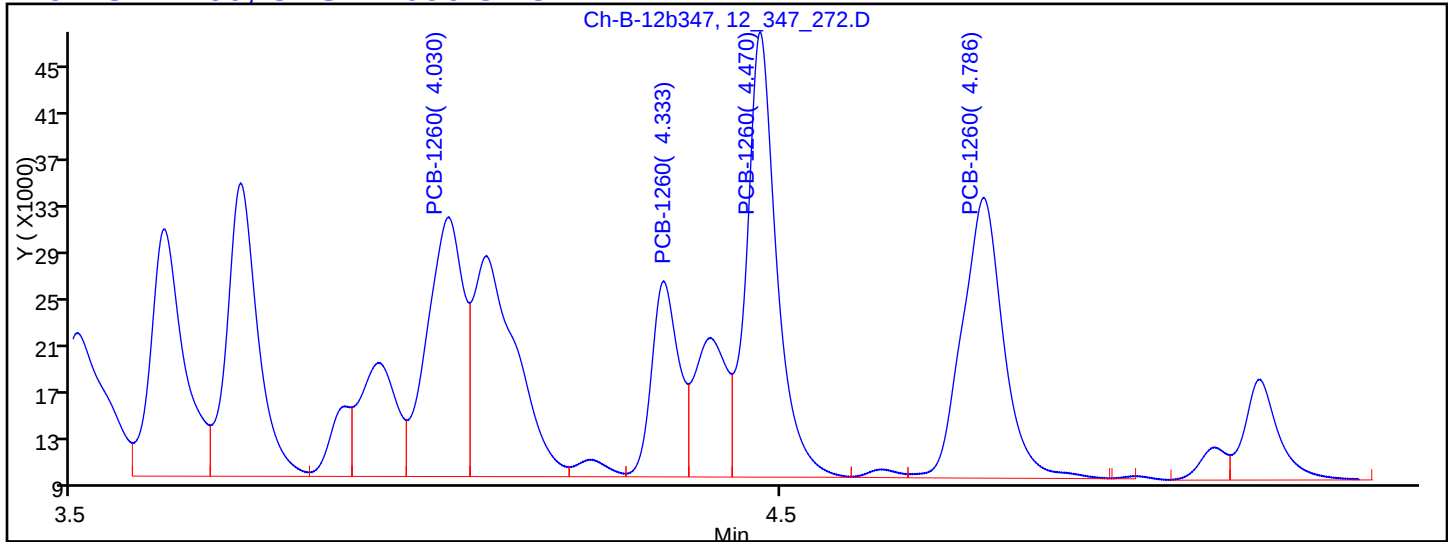
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-35 (0.53 mm)

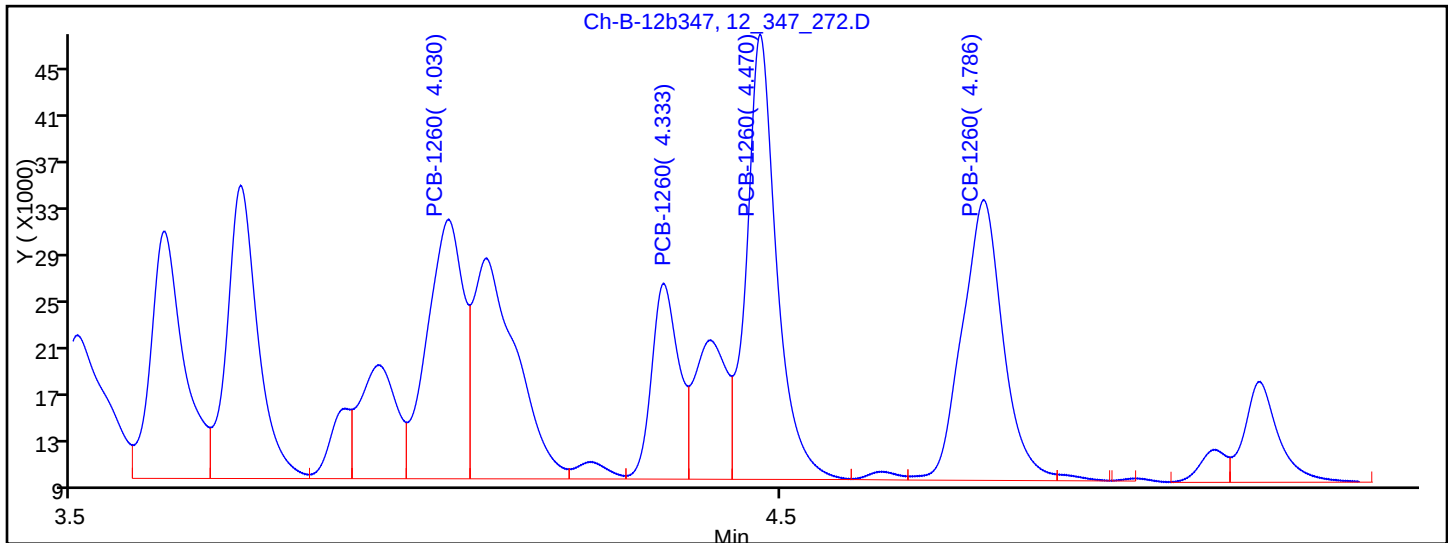
Detector: Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.030	Response = 79320
RT = 4.333	Response = 44698
RT = 4.470	Response = 112335
RT = 4.786	Response = 97140

M



Manual Integration Results

RT = 4.030	Response = 79320
RT = 4.333	Response = 44698
RT = 4.470	Response = 112335
RT = 4.786	Response = 95957

M

Reviewer: sobolk, 23-Oct-2015 09:55:28

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-270529/1-A
Matrix: Solid Lab File ID: 12_347_266.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
Sample wt/vol: +2.10(g) Date Analyzed: 10/23/2015 08:02
Con. Extract Vol.: 10(mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		60-154
2051-24-3	DCB Decachlorobiphenyl	87		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_266.D
 Lims ID: MB 480-270529/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Oct-2015 08:02:26 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:59:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.651	1.652	-0.001	52554	0.0200	0.0187
2	1.279	1.280	-0.001	27731	0.0200	0.0184

RPD = 1.53

\$ 12 DCB Decachlorobiphenyl

1	6.208	6.207	0.001	60268	0.0200	0.0174
2	5.661	5.661	0.000	51362	0.0200	0.0194

RPD = 11.28

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:59:29

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_266.D

Injection Date: 23-Oct-2015 08:02:26

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: MB 480-270529/1-A

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

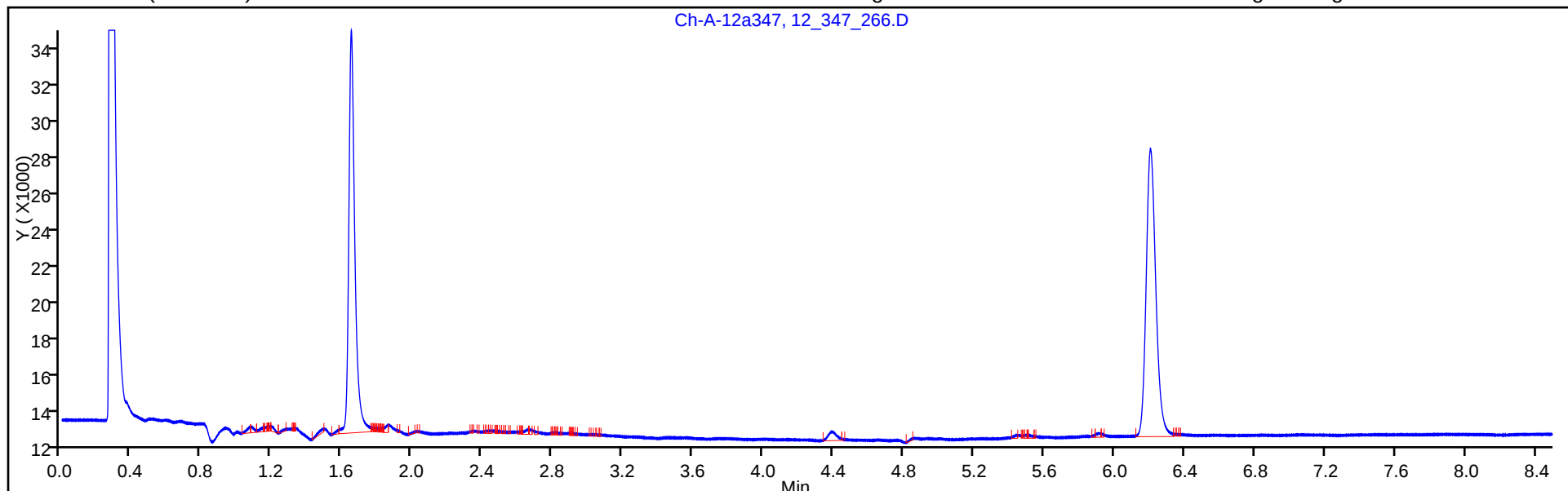
ALS Bottle#: 0

Method: hp12_pcb

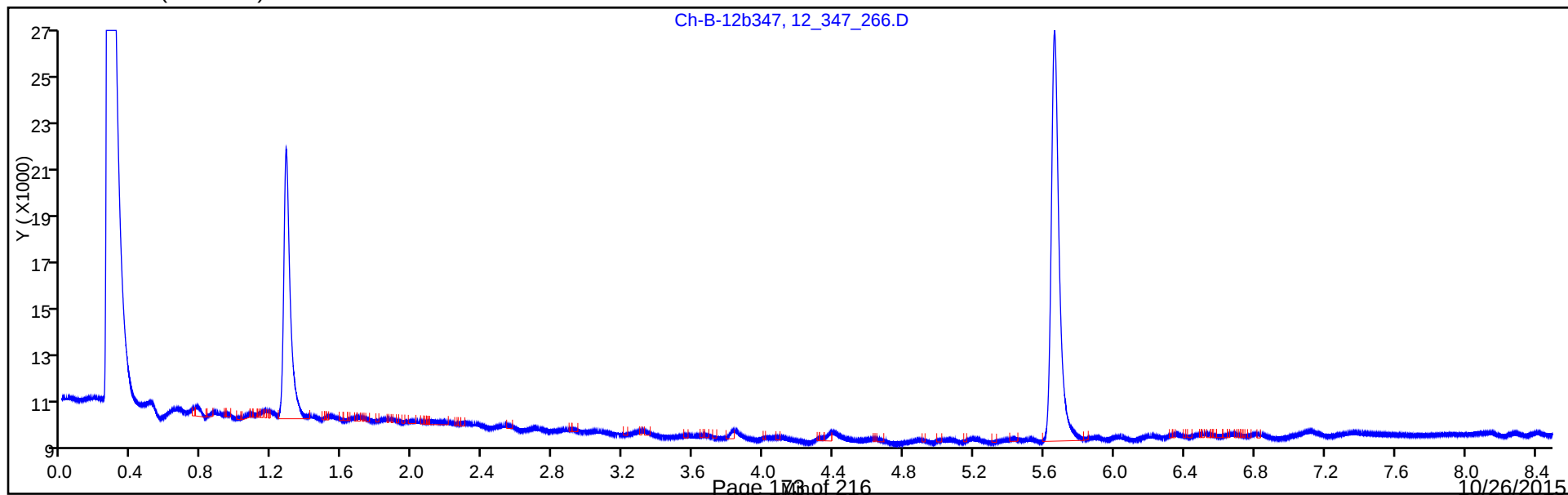
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-270529/1-A
 Matrix: Solid Lab File ID: 12_347_266.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
 Sample wt/vol: +2.10(g) Date Analyzed: 10/23/2015 08:02
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		60-154
2051-24-3	DCB Decachlorobiphenyl	97		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_266.D
 Lims ID: MB 480-270529/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Oct-2015 08:02:26 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:59:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.651	1.652	-0.001	52554	0.0200	0.0187
2	1.279	1.280	-0.001	27731	0.0200	0.0184

RPD = 1.53

\$ 12 DCB Decachlorobiphenyl

1	6.208	6.207	0.001	60268	0.0200	0.0174
2	5.661	5.661	0.000	51362	0.0200	0.0194

RPD = 11.28

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:59:29

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_266.D

Injection Date: 23-Oct-2015 08:02:26

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: MB 480-270529/1-A

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

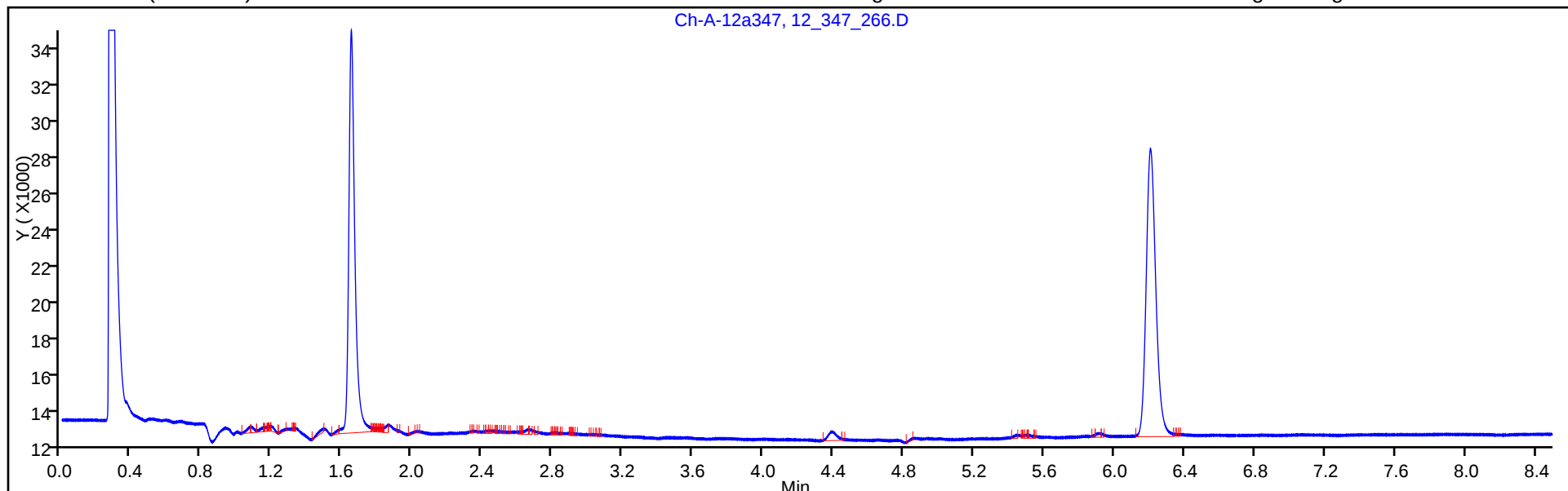
ALS Bottle#: 0

Method: hp12_pcb

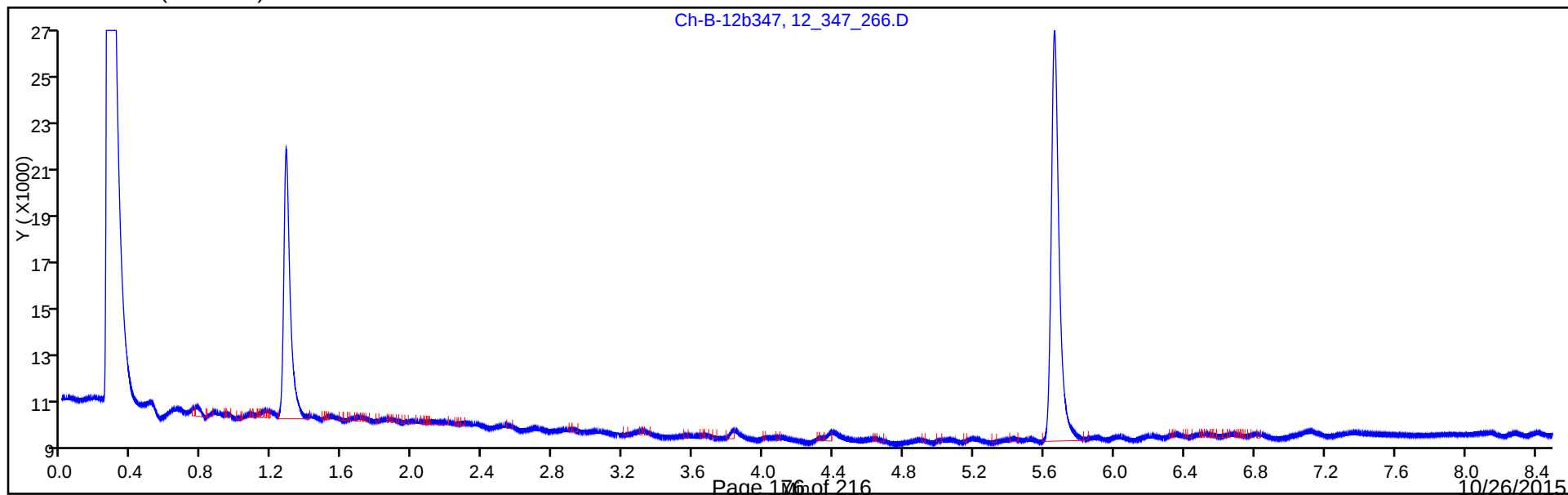
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-270529/2-A
Matrix: Solid Lab File ID: 12_347_267.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
Sample wt/vol: +2.40 (g) Date Analyzed: 10/23/2015 08:17
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.25 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	99		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_267.D
 Lims ID: LCS 480-270529/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Oct-2015 08:17:13 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:58:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.650	1.652	-0.002	69514	0.0200	0.0248	
2	1.279	1.280	-0.001	31588	0.0200	0.0210	

RPD = 16.44

6 PCB-1016

M

1	2.211	2.213	-0.002	76774	0.5000	0.5379	M
1	2.349	2.352	-0.003	48395	0.5000	0.5820	
1	2.544	2.548	-0.004	126914	0.5000	0.5317	
1	2.627	2.631	-0.004	55394	0.5000	0.5358	

Average of Peak Amounts = 0.5468

2	1.937	1.940	-0.003	69178	0.5000	0.5791	
2	2.227	2.230	-0.003	89162	0.5000	0.5934	
2	2.338	2.343	-0.005	39862	0.5000	0.5707	
2	2.701	2.705	-0.004	44617	0.5000	0.6093	

Average of Peak Amounts = 0.5881

RPD = 7.28

9 PCB-1260

1	4.159	4.164	-0.005	157766	0.5000	0.6136	
1	4.376	4.379	-0.003	149902	0.5000	0.6779	
1	4.507	4.511	-0.004	115963	0.5000	0.5220	
1	4.889	4.892	-0.003	148481	0.5000	0.4926	

Average of Peak Amounts = 0.5765

2	4.027	4.030	-0.003	115527	0.5000	0.7349	
2	4.330	4.333	-0.003	49377	0.5000	0.5321	
2	4.467	4.470	-0.003	120856	0.5000	0.5643	
2	4.783	4.786	-0.003	99452	0.5000	0.5431	

Average of Peak Amounts = 0.5936

RPD = 2.92

\$ 12 DCB Decachlorobiphenyl

1	6.207	6.207	0.000	68591	0.0200	0.0198	
2	5.661	5.661	0.000	59858	0.0200	0.0227	

RPD = 13.65

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:58:01

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_267.D

Injection Date: 23-Oct-2015 08:17:13

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: LCS 480-270529/2-A

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

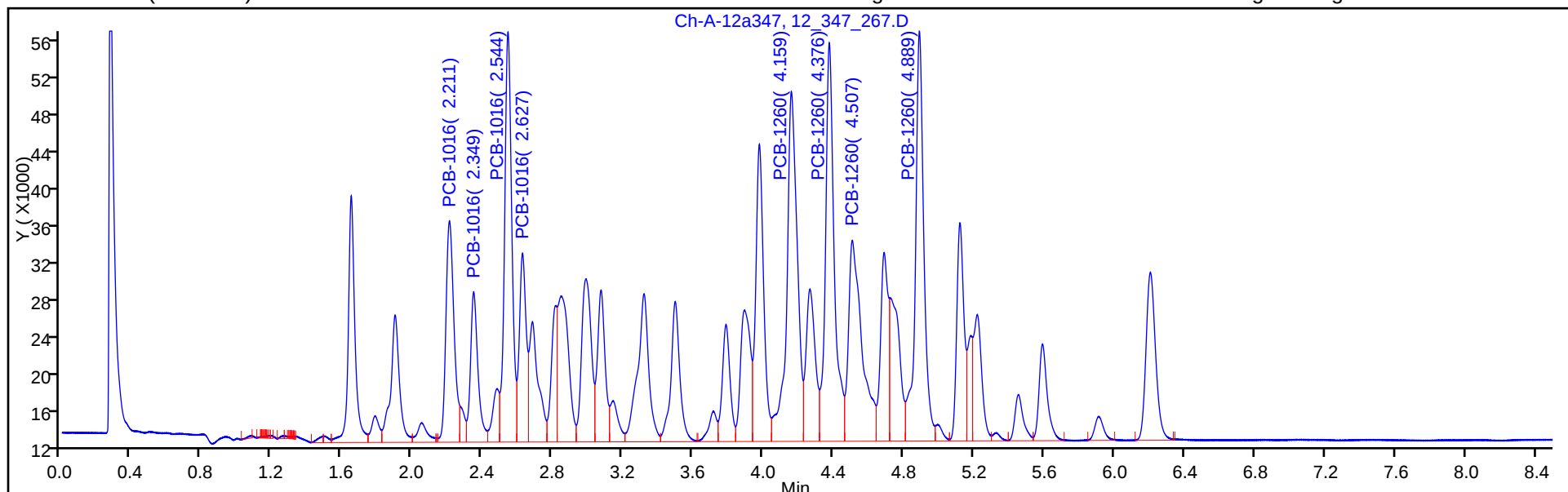
ALS Bottle#: 0

Method: hp12_pcb

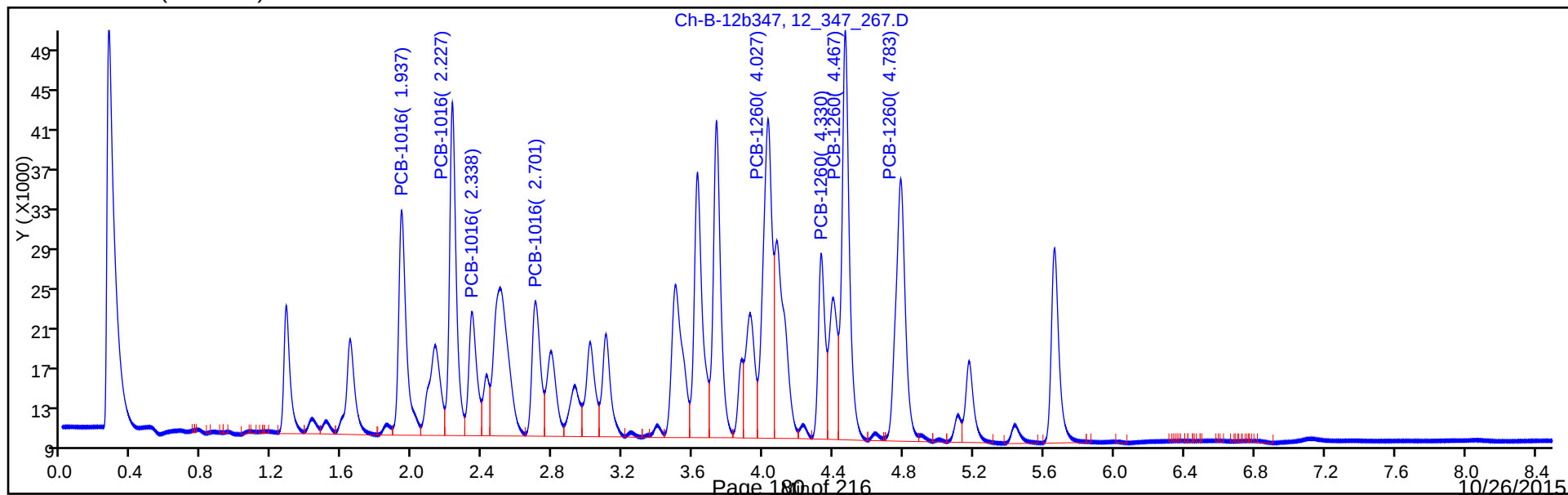
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_267.D

Injection Date: 23-Oct-2015 08:17:13

Instrument ID: HP5890-12

Lims ID: LCS 480-270529/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

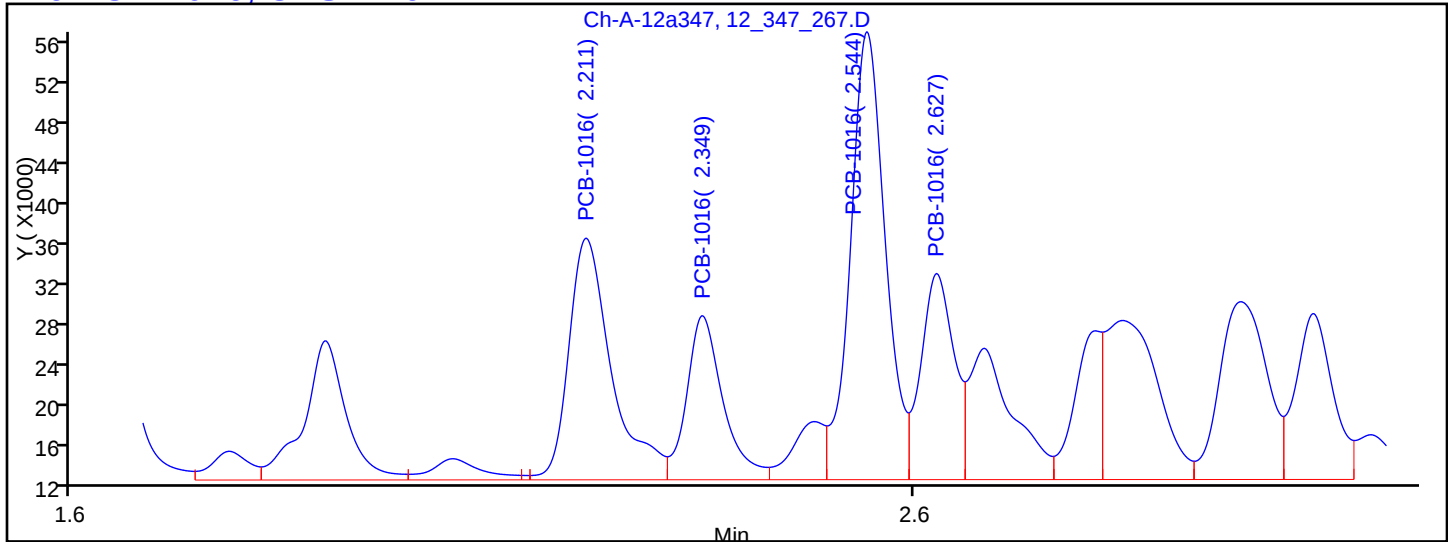
Dil. Factor: 1.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

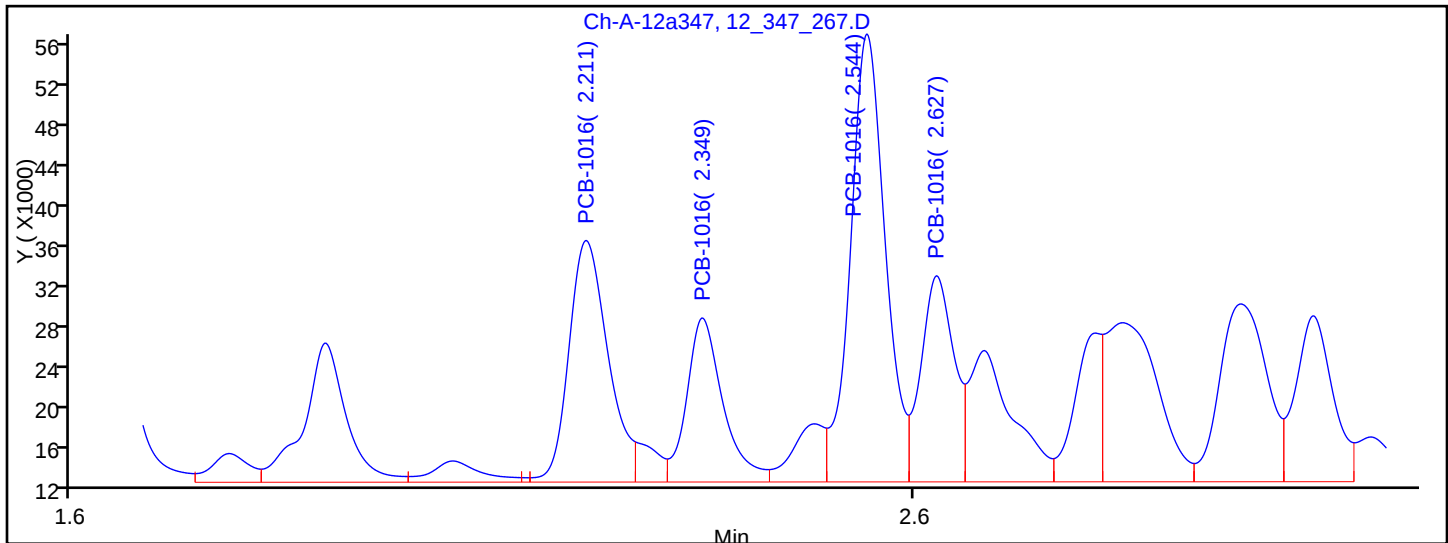
RT = 2.211 Response = 84019

M

RT = 2.349 Response = 48395

RT = 2.544 Response = 126914

RT = 2.627 Response = 55394



Manual Integration Results

RT = 2.211 Response = 76774

M

RT = 2.349 Response = 48395

RT = 2.544 Response = 126914

RT = 2.627 Response = 55394

Reviewer: sobolk, 23-Oct-2015 09:10:41

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-270529/2-A
 Matrix: Solid Lab File ID: 12_347_267.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
 Sample wt/vol: +2.40(g) Date Analyzed: 10/23/2015 08:17
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.45		0.21	0.041
11096-82-5	PCB-1260	2.47		0.21	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_267.D
 Lims ID: LCS 480-270529/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Oct-2015 08:17:13 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:58:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.650	1.652	-0.002	69514	0.0200	0.0248
2	1.279	1.280	-0.001	31588	0.0200	0.0210

RPD = 16.44

6 PCB-1016

M

1	2.211	2.213	-0.002	76774	0.5000	0.5379
1	2.349	2.352	-0.003	48395	0.5000	0.5820
1	2.544	2.548	-0.004	126914	0.5000	0.5317
1	2.627	2.631	-0.004	55394	0.5000	0.5358

Average of Peak Amounts = 0.5468

2	1.937	1.940	-0.003	69178	0.5000	0.5791
2	2.227	2.230	-0.003	89162	0.5000	0.5934
2	2.338	2.343	-0.005	39862	0.5000	0.5707
2	2.701	2.705	-0.004	44617	0.5000	0.6093

Average of Peak Amounts = 0.5881

RPD = 7.28

9 PCB-1260

1	4.159	4.164	-0.005	157766	0.5000	0.6136
1	4.376	4.379	-0.003	149902	0.5000	0.6779
1	4.507	4.511	-0.004	115963	0.5000	0.5220
1	4.889	4.892	-0.003	148481	0.5000	0.4926

Average of Peak Amounts = 0.5765

2	4.027	4.030	-0.003	115527	0.5000	0.7349
2	4.330	4.333	-0.003	49377	0.5000	0.5321
2	4.467	4.470	-0.003	120856	0.5000	0.5643
2	4.783	4.786	-0.003	99452	0.5000	0.5431

Average of Peak Amounts = 0.5936

RPD = 2.92

\$ 12 DCB Decachlorobiphenyl

1	6.207	6.207	0.000	68591	0.0200	0.0198
2	5.661	5.661	0.000	59858	0.0200	0.0227

Page 183 of 216
RPD = 13.65

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:58:01

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_267.D

Injection Date: 23-Oct-2015 08:17:13

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: LCS 480-270529/2-A

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

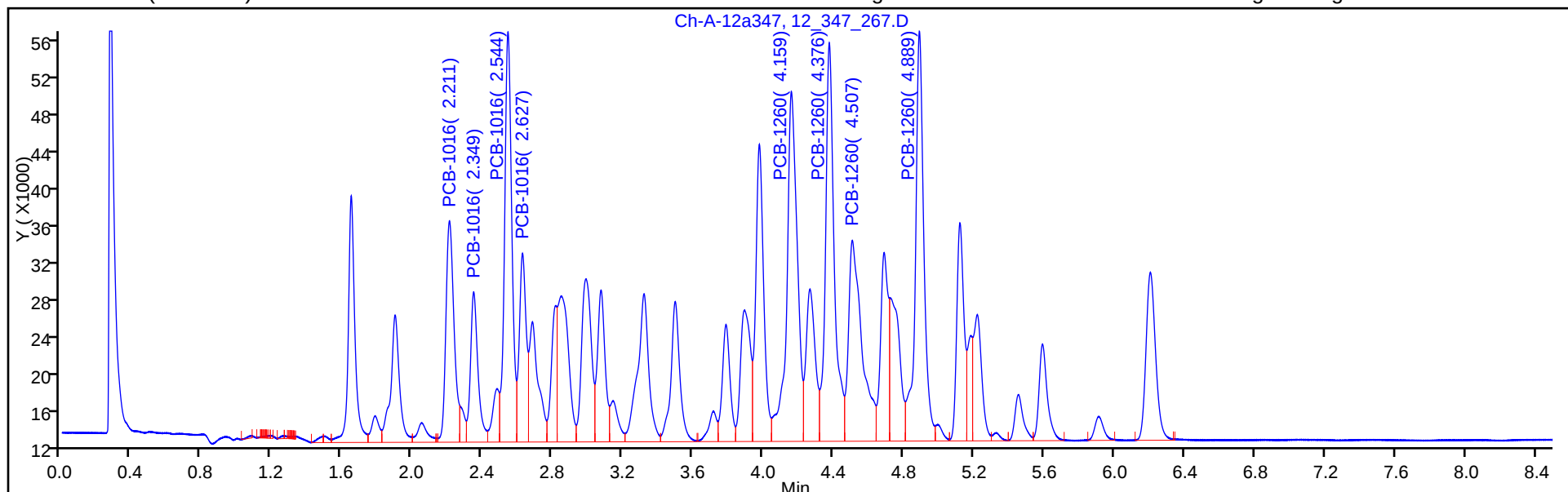
ALS Bottle#: 0

Method: hp12_pcb

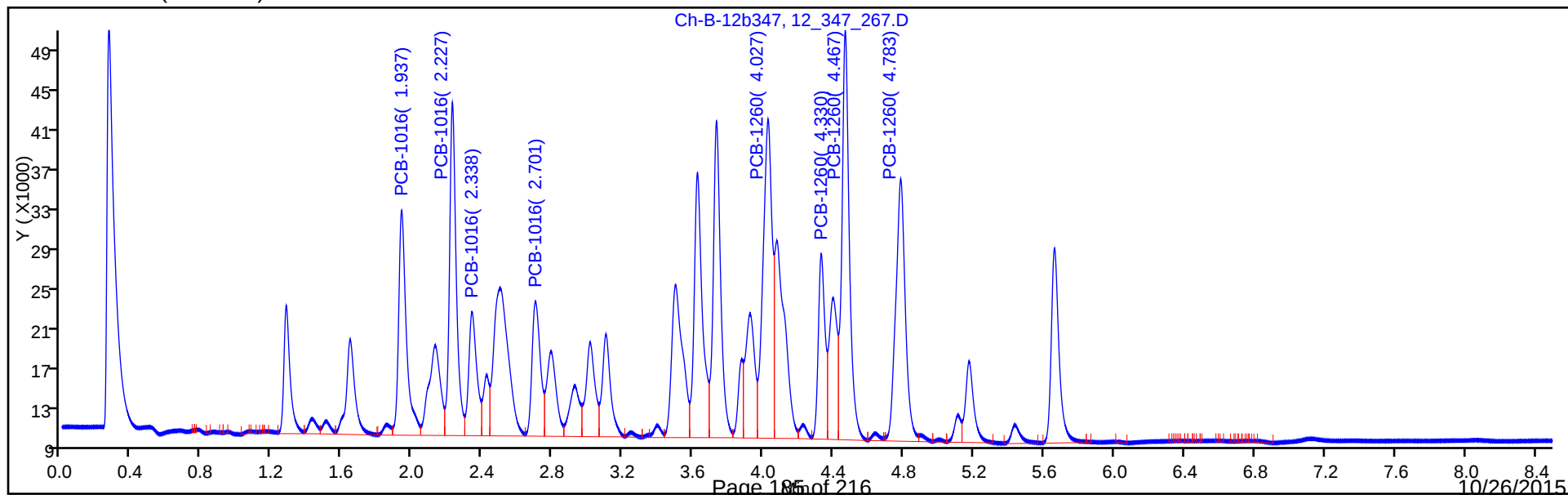
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Client Sample ID: TANK 2-SED MS Lab Sample ID: 480-89678-1 MS
Matrix: Solid Lab File ID: 12_347_268.D
Analysis Method: 8082A Date Collected: 10/22/2015 08:45
Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
Sample wt/vol: +2.40 (g) Date Analyzed: 10/23/2015 08:32
Con. Extract Vol.: 10 (mL) Dilution Factor: 10
Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.25 (mm)
% Moisture: 13.2 GPC Cleanup: (Y/N) N
Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	116		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D
 Lims ID: 480-89678-A-1-A MS
 Client ID:
 Sample Type: MS
 Inject. Date: 23-Oct-2015 08:32:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:57:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.655	1.652	0.003	6532	0.002000	0.002328	
2	1.284	1.280	0.004	3293	0.002000	0.002191	

RPD = 6.09

6 PCB-1016

1	2.215	2.213	0.002	10992	0.0500	0.0770	M
1	2.354	2.352	0.002	6219	0.0500	0.0748	
1	2.551	2.548	0.003	19256	0.0500	0.0807	
1	2.635	2.631	0.004	9960	0.0500	0.0963	

Average of Peak Amounts = 0.0822

2	1.943	1.940	0.003	8484	0.0500	0.0710	
2	2.231	2.230	0.001	10371	0.0500	0.0690	
2	2.355	2.343	0.012	5929	0.0500	0.0849	
2	0.000	2.705	-2.705	0	0.0500	0	

Average of Peak Amounts = 0.0750

RPD = 9.19

8 PCB-1254

1	3.321	3.315	0.006	301396		1.41	
1	3.716	3.701	0.015	231537		1.41	
1	3.794	3.779	0.015	299599		1.42	
1	3.987	3.975	0.012	306615		1.40	

Average of Peak Amounts = 1.41

2	3.106	3.099	0.007	199068		1.49	
2	3.482	3.470	0.012	319420		1.65	
2	3.619	3.604	0.015	309310		1.66	
2	4.032	4.017	0.015	256750		1.79	

Average of Peak Amounts = 1.65

RPD = 15.63

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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9 PCB-1260

1	4.175	4.164	0.011	115286	0.0500	0.4484	M
1	0.000	4.379	-4.379	0	0.0500	0	
1	4.510	4.511	-0.001	40980	0.0500	0.1845	
1	4.893	4.892	0.001	69563	0.0500	0.2308	

Average of Peak Amounts = 0.2879

2	0.000	4.030	-4.030	0	0.0500	0	
2	4.333	4.333	0.000	56984	0.0500	0.6140	
2	4.471	4.470	0.001	61006	0.0500	0.2849	
2	4.787	4.786	0.001	43972	0.0500	0.2401	

Average of Peak Amounts = 0.3797

RPD = 27.50

\$ 12 DCB Decachlorobiphenyl

1	6.210	6.207	0.003	8000	0.002000	0.002304	
2	5.665	5.661	0.004	6191	0.002000	0.002343	

RPD = 1.65

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:57:06

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D

Injection Date: 23-Oct-2015 08:32:00

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: 480-89678-A-1-A MS

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

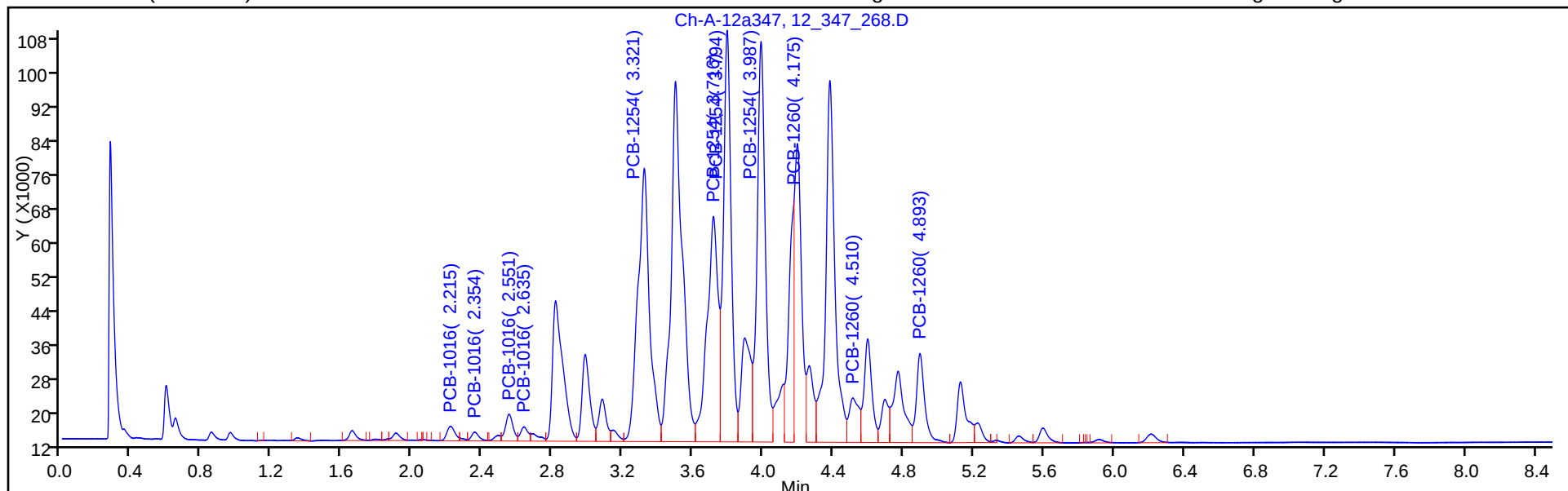
ALS Bottle#: 0

Method: hp12_pcb

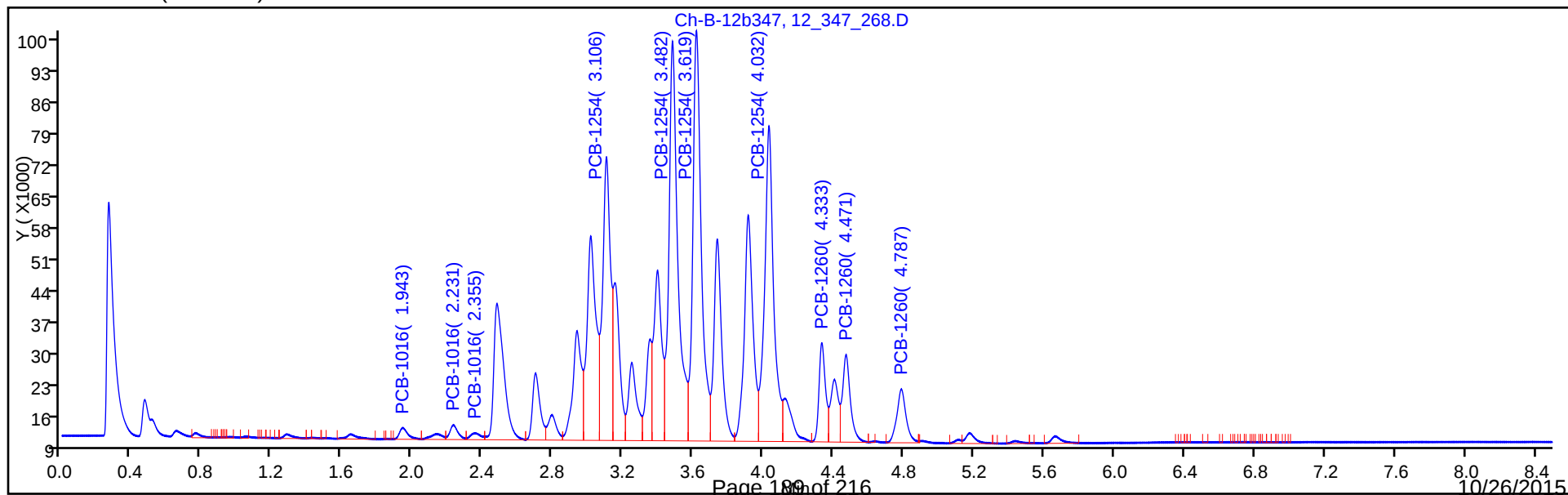
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D

Injection Date: 23-Oct-2015 08:32:00

Instrument ID: HP5890-12

Lims ID: 480-89678-A-1-A MS

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

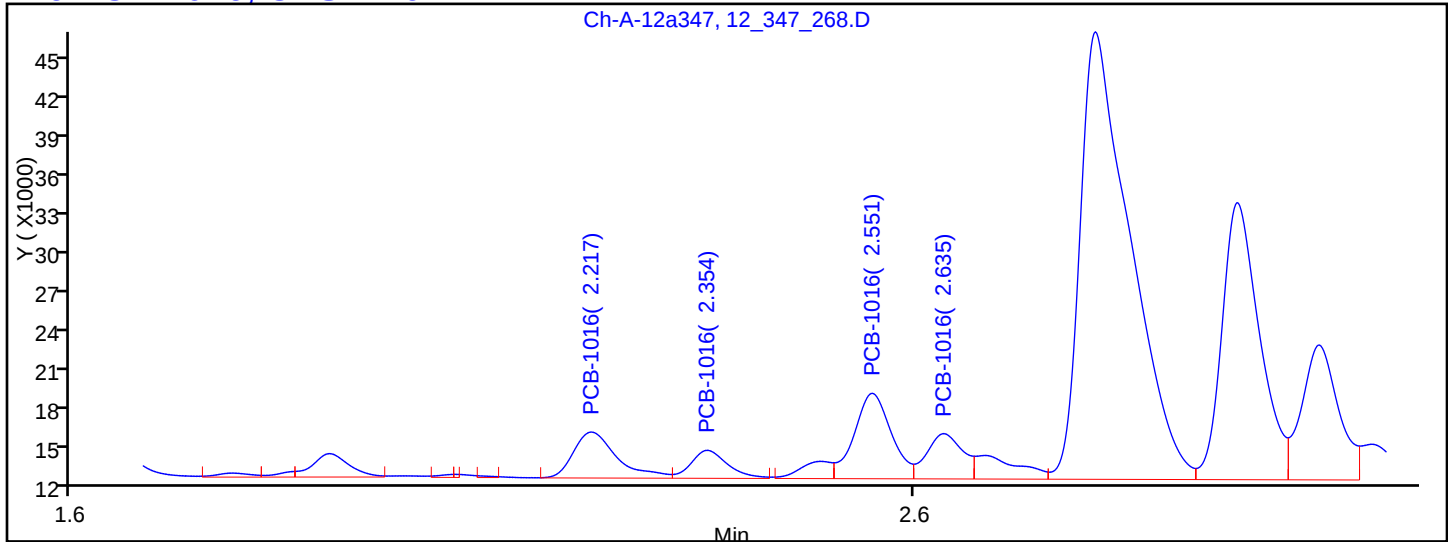
Dil. Factor: 10.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

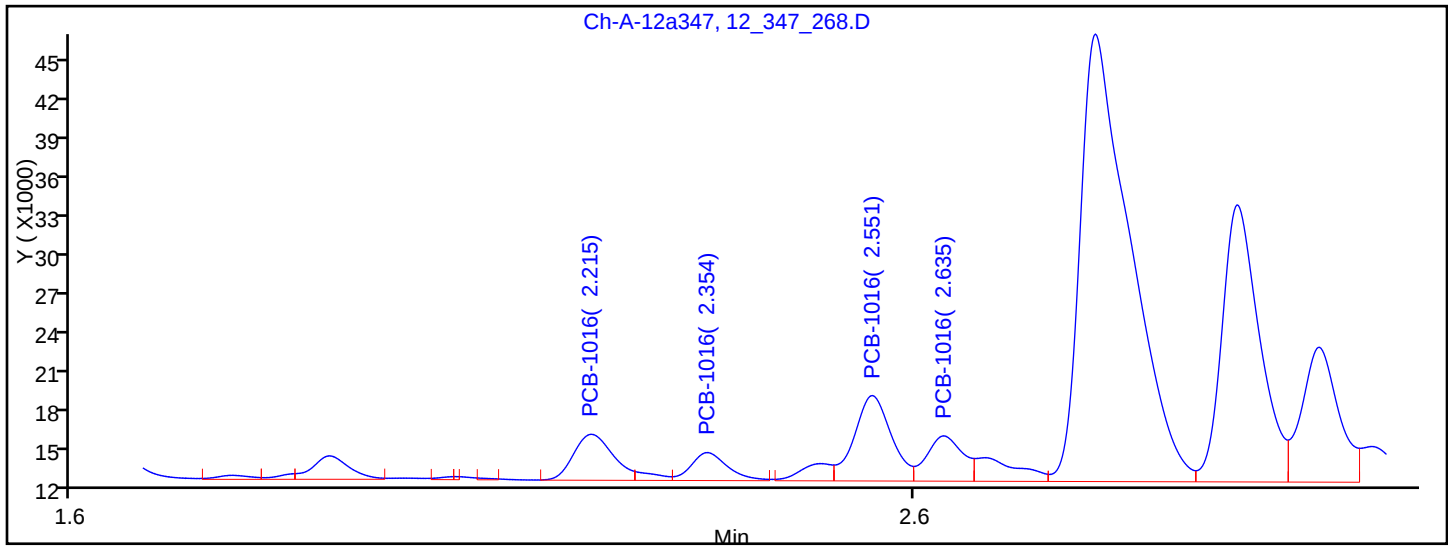
RT = 2.217 Response = 12186

M

RT = 2.354 Response = 6219

RT = 2.551 Response = 19256

RT = 2.635 Response = 9960



Manual Integration Results

RT = 2.215 Response = 10992

M

RT = 2.354 Response = 6219

RT = 2.551 Response = 19256

RT = 2.635 Response = 9960

Reviewer: sobolk, 23-Oct-2015 09:31:11

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-89678-1</u>
SDG No.: _____	
Client Sample ID: <u>TANK 2-SED MS</u>	Lab Sample ID: <u>480-89678-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>12_347_268.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/22/2015 08:45</u>
Extraction Method: <u>3550C</u>	Date Extracted: <u>10/22/2015 18:08</u>
Sample wt/vol: <u>+2.40(g)</u>	Date Analyzed: <u>10/23/2015 08:32</u>
Con. Extract Vol.: <u>10(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: <u>13.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>270588</u>	Units: <u>mg/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.60		2.4	0.47
11104-28-2	PCB-1221	ND		2.4	0.47
11141-16-5	PCB-1232	ND		2.4	0.47
53469-21-9	PCB-1242	ND		2.4	0.47
12672-29-6	PCB-1248	ND		2.4	0.47
11097-69-1	PCB-1254	79.1		2.4	1.1
11096-82-5	PCB-1260	18.2		2.4	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	117		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D
 Lims ID: 480-89678-A-1-A MS
 Client ID:
 Sample Type: MS
 Inject. Date: 23-Oct-2015 08:32:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:57:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.655	1.652	0.003	6532	0.002000	0.002328	
2	1.284	1.280	0.004	3293	0.002000	0.002191	

RPD = 6.09

6 PCB-1016

1	2.215	2.213	0.002	10992	0.0500	0.0770	M
1	2.354	2.352	0.002	6219	0.0500	0.0748	
1	2.551	2.548	0.003	19256	0.0500	0.0807	
1	2.635	2.631	0.004	9960	0.0500	0.0963	

Average of Peak Amounts = 0.0822

2	1.943	1.940	0.003	8484	0.0500	0.0710	
2	2.231	2.230	0.001	10371	0.0500	0.0690	
2	2.355	2.343	0.012	5929	0.0500	0.0849	
2	0.000	2.705	-2.705	0	0.0500	0	

Average of Peak Amounts = 0.0750

RPD = 9.19

8 PCB-1254

1	3.321	3.315	0.006	301396		1.41	
1	3.716	3.701	0.015	231537		1.41	
1	3.794	3.779	0.015	299599		1.42	
1	3.987	3.975	0.012	306615		1.40	

Average of Peak Amounts = 1.41

2	3.106	3.099	0.007	199068		1.49	
2	3.482	3.470	0.012	319420		1.65	
2	3.619	3.604	0.015	309310		1.66	
2	4.032	4.017	0.015	256750		1.79	

Average of Peak Amounts = 1.65

RPD = 15.63

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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9 PCB-1260

1	4.175	4.164	0.011	115286	0.0500	0.4484	M
1	0.000	4.379	-4.379	0	0.0500	0	
1	4.510	4.511	-0.001	40980	0.0500	0.1845	
1	4.893	4.892	0.001	69563	0.0500	0.2308	

Average of Peak Amounts = 0.2879

2	0.000	4.030	-4.030	0	0.0500	0	
2	4.333	4.333	0.000	56984	0.0500	0.6140	
2	4.471	4.470	0.001	61006	0.0500	0.2849	
2	4.787	4.786	0.001	43972	0.0500	0.2401	

Average of Peak Amounts = 0.3797

RPD = 27.50

\$ 12 DCB Decachlorobiphenyl

1	6.210	6.207	0.003	8000	0.002000	0.002304	
2	5.665	5.661	0.004	6191	0.002000	0.002343	

RPD = 1.65

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:57:06

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_268.D

Injection Date: 23-Oct-2015 08:32:00

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: 480-89678-A-1-A MS

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

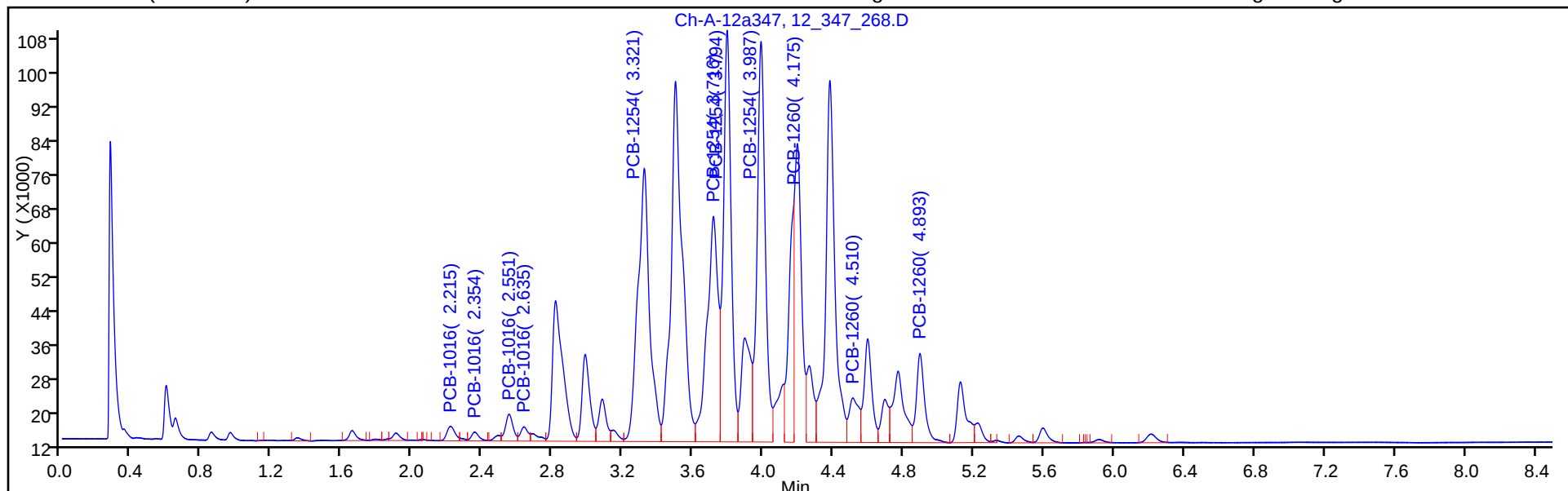
ALS Bottle#: 0

Method: hp12_pcb

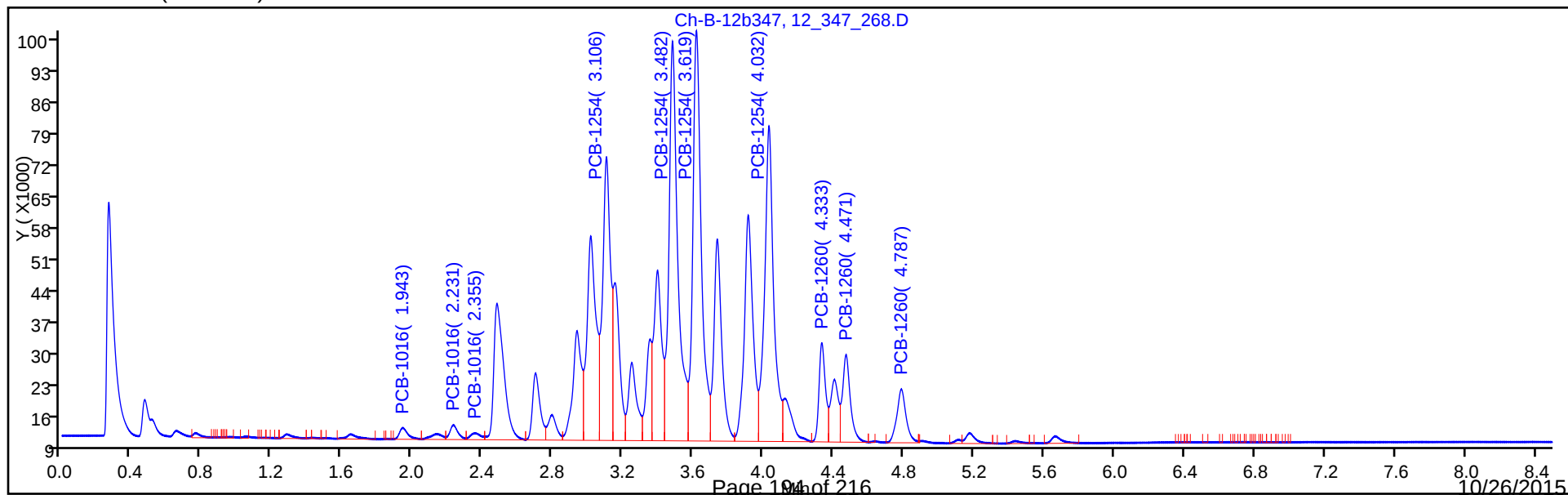
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1
SDG No.: _____
Client Sample ID: TANK 2-SED MSD Lab Sample ID: 480-89678-1 MSD
Matrix: Solid Lab File ID: 12_347_269.D
Analysis Method: 8082A Date Collected: 10/22/2015 08:45
Extraction Method: 3550C Date Extracted: 10/22/2015 18:08
Sample wt/vol: +2.35(g) Date Analyzed: 10/23/2015 08:46
Con. Extract Vol.: 10(mL) Dilution Factor: 10
Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)
% Moisture: 13.2 GPC Cleanup: (Y/N) N
Analysis Batch No.: 270588 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	108		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D
 Lims ID: 480-89678-A-1-B MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 23-Oct-2015 08:46:51 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk Date: 23-Oct-2015 09:56:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.656	1.652	0.004	6044	0.002000	0.002154	
2	1.285	1.280	0.005	3310	0.002000	0.002202	
RPD = 2.19							

6 PCB-1016

1	2.218	2.213	0.005	8878	0.0500	0.0622	M
1	2.356	2.352	0.004	4719	0.0500	0.0568	
1	2.553	2.548	0.005	14938	0.0500	0.0626	
1	2.637	2.631	0.006	6622	0.0500	0.0641	
Average of Peak Amounts =						0.0614	
2	1.945	1.940	0.005	6975	0.0500	0.0584	
2	2.234	2.230	0.004	8136	0.0500	0.0541	
2	2.351	2.343	0.008	4072	0.0500	0.0583	
2	0.000	2.705	-2.705	0	0.0500	0	
Average of Peak Amounts =						0.0569	
RPD = 7.52							

8 PCB-1254

1	3.323	3.315	0.008	174801		0.8168	
1	3.719	3.701	0.018	130802		0.7992	
1	3.795	3.779	0.016	169155		0.8010	
1	3.989	3.975	0.014	206650		0.9405	
Average of Peak Amounts =						0.8393	
2	3.110	3.099	0.011	93303		0.6980	M
2	3.486	3.470	0.016	171695		0.8875	M
2	3.621	3.604	0.017	196715		1.06	M
2	4.034	4.017	0.017	157227		1.10	M
Average of Peak Amounts =						0.9347	
RPD = 10.75							

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

9 PCB-1260

1	4.177	4.164	0.013	101976	0.0500	0.3966	M
1	0.000	4.379	-4.379	0	0.0500	0	
1	4.511	4.511	0.000	28862	0.0500	0.1299	
1	4.894	4.892	0.002	48400	0.0500	0.1606	

Average of Peak Amounts =

0.2290

2	0.000	4.030	-4.030	0	0.0500	0	
2	4.334	4.333	0.001	37759	0.0500	0.4069	
2	4.473	4.470	0.003	43979	0.0500	0.2053	
2	4.788	4.786	0.002	30625	0.0500	0.1672	

Average of Peak Amounts =

0.2598

RPD = 12.60

\$ 12 DCB Decachlorobiphenyl

1	6.211	6.207	0.004	7533	0.002000	0.002170	
2	5.665	5.661	0.004	6197	0.002000	0.002345	

RPD = 7.76

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:56:32

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D

Injection Date: 23-Oct-2015 08:46:51

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: 480-89678-A-1-B MSD

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

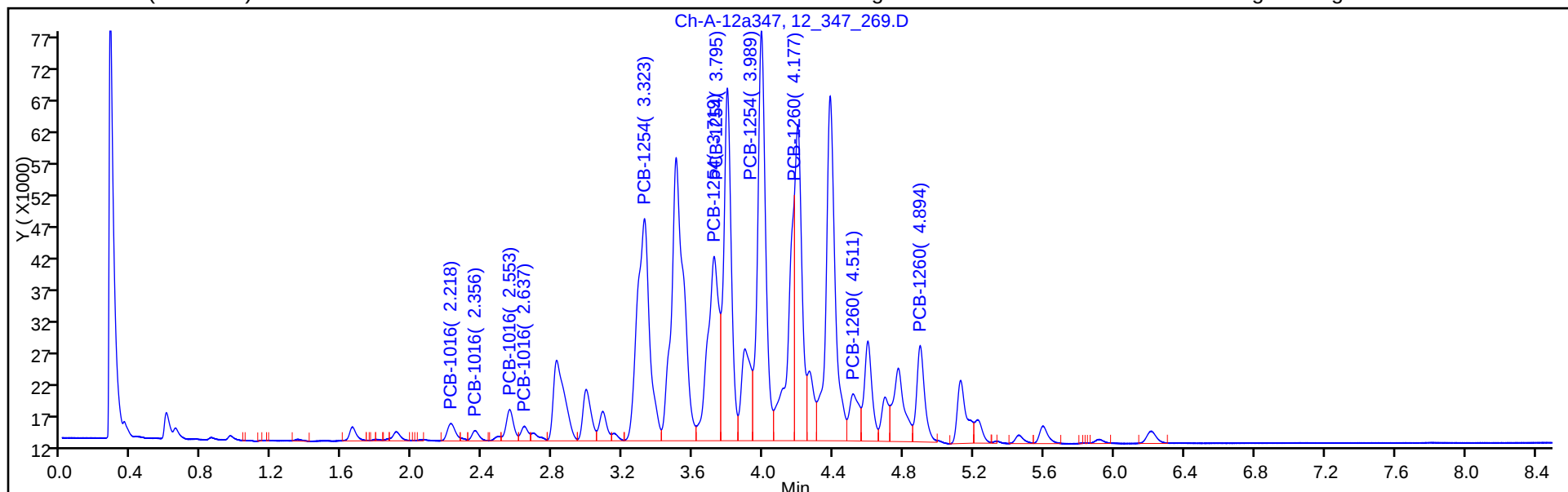
ALS Bottle#: 0

Method: hp12_pcb

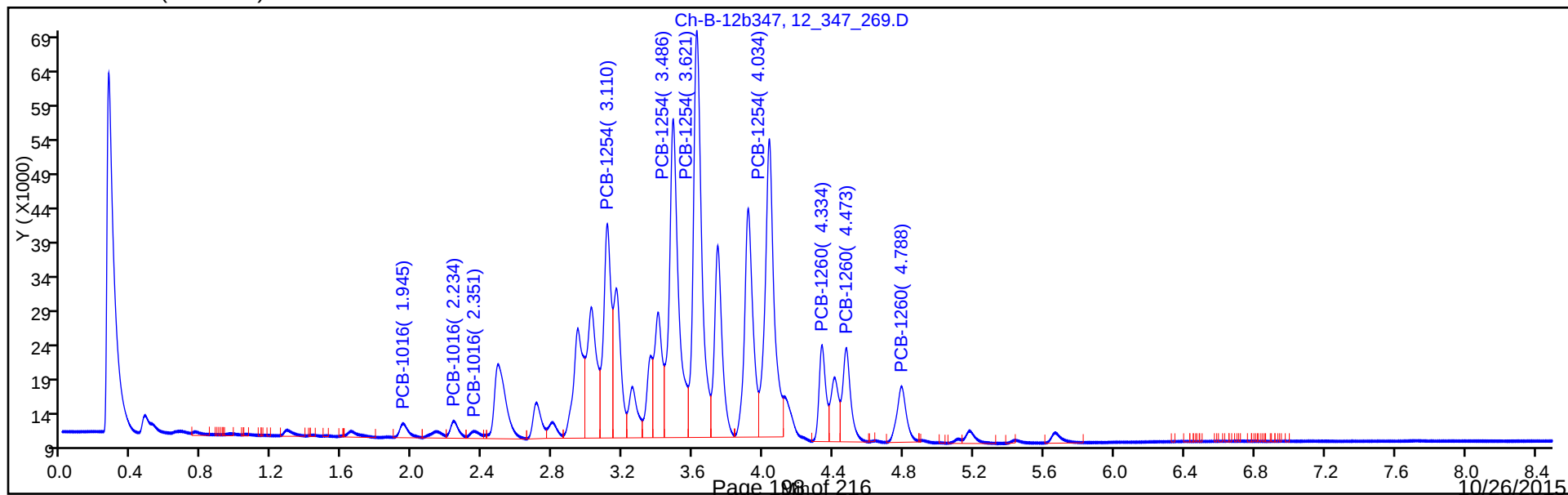
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



10/26/2015

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D

Injection Date: 23-Oct-2015 08:46:51

Instrument ID: HP5890-12

Lims ID: 480-89678-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

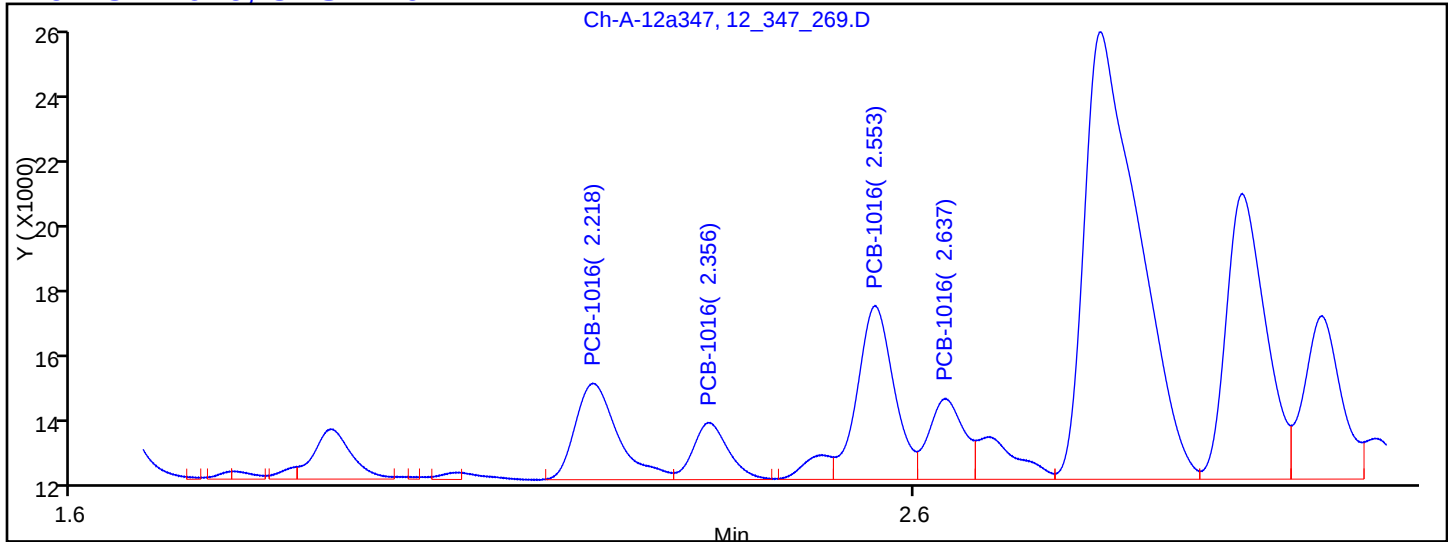
Dil. Factor: 10.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

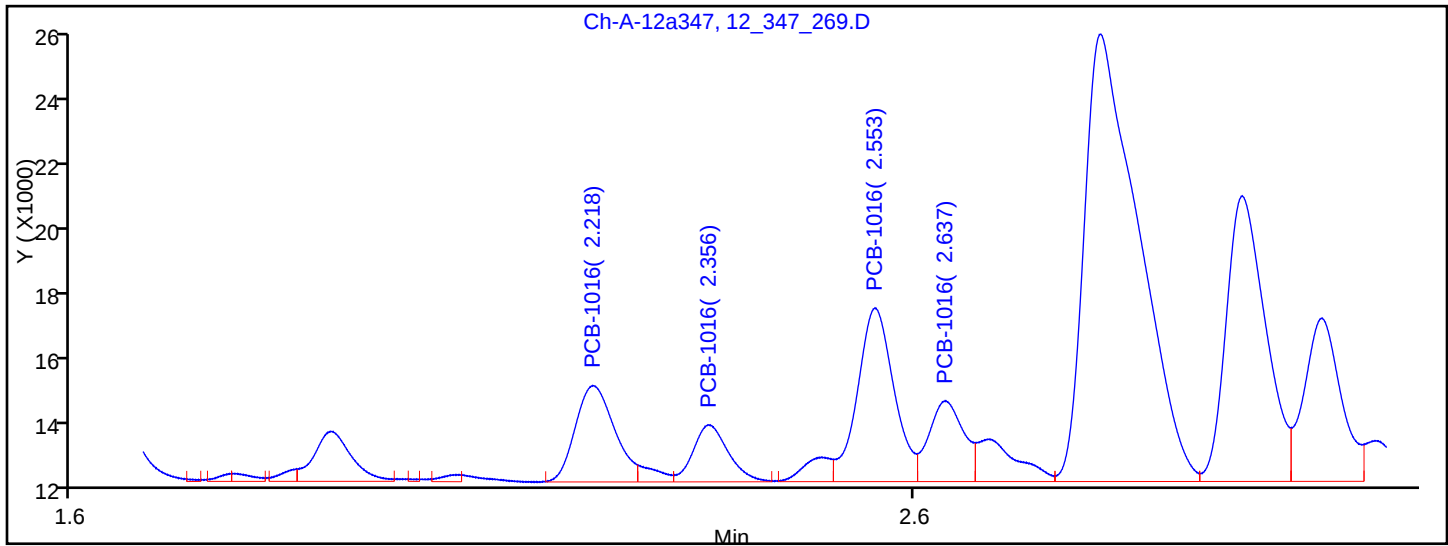
Detector: Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.218	Response = 9705
RT = 2.356	Response = 4719
RT = 2.553	Response = 14938
RT = 2.637	Response = 6622

M



Manual Integration Results

RT = 2.218	Response = 8878
RT = 2.356	Response = 4719
RT = 2.553	Response = 14938
RT = 2.637	Response = 6622

M

Reviewer: sobolk, 23-Oct-2015 09:31:26

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-89678-1</u>
SDG No.: _____	
Client Sample ID: <u>TANK 2-SED MSD</u>	Lab Sample ID: <u>480-89678-1 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>12_347_269.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/22/2015 08:45</u>
Extraction Method: <u>3550C</u>	Date Extracted: <u>10/22/2015 18:08</u>
Sample wt/vol: <u>+2.35(g)</u>	Date Analyzed: <u>10/23/2015 08:46</u>
Con. Extract Vol.: <u>10 (mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53 (mm)</u>
% Moisture: <u>13.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>270588</u>	Units: <u>mg/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.79		2.5	0.48
11104-28-2	PCB-1221	ND		2.5	0.48
11141-16-5	PCB-1232	ND		2.5	0.48
53469-21-9	PCB-1242	ND		2.5	0.48
12672-29-6	PCB-1248	ND		2.5	0.48
11097-69-1	PCB-1254	45.8		2.5	1.1
11096-82-5	PCB-1260	12.7		2.5	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	117		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D
 Lims ID: 480-89678-A-1-B MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 23-Oct-2015 08:46:51 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP5890-12
 Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\hp12_pcb.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 23-Oct-2015 09:55:28 Calib Date: 01-Aug-2015 19:42:19
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20150801-45014.b\12_339_318.D
 Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
 Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
 Process Host: XAWRK018

First Level Reviewer: sobolk

Date: 23-Oct-2015 09:56:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.656	1.652	0.004	6044	0.002000	0.002154	
2	1.285	1.280	0.005	3310	0.002000	0.002202	
RPD = 2.19							

6 PCB-1016

1	2.218	2.213	0.005	8878	0.0500	0.0622	M
1	2.356	2.352	0.004	4719	0.0500	0.0568	
1	2.553	2.548	0.005	14938	0.0500	0.0626	
1	2.637	2.631	0.006	6622	0.0500	0.0641	
Average of Peak Amounts =						0.0614	
2	1.945	1.940	0.005	6975	0.0500	0.0584	
2	2.234	2.230	0.004	8136	0.0500	0.0541	
2	2.351	2.343	0.008	4072	0.0500	0.0583	
2	0.000	2.705	-2.705	0	0.0500	0	
Average of Peak Amounts =						0.0569	
RPD = 7.52							

8 PCB-1254

1	3.323	3.315	0.008	174801		0.8168	
1	3.719	3.701	0.018	130802		0.7992	
1	3.795	3.779	0.016	169155		0.8010	
1	3.989	3.975	0.014	206650		0.9405	
Average of Peak Amounts =						0.8393	
2	3.110	3.099	0.011	93303		0.6980	M
2	3.486	3.470	0.016	171695		0.8875	M
2	3.621	3.604	0.017	196715		1.06	M
2	4.034	4.017	0.017	157227		1.10	M
Average of Peak Amounts =						0.9347	
RPD = 10.75							

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

9 PCB-1260

1	4.177	4.164	0.013	101976	0.0500	0.3966	M
1	0.000	4.379	-4.379	0	0.0500	0	
1	4.511	4.511	0.000	28862	0.0500	0.1299	
1	4.894	4.892	0.002	48400	0.0500	0.1606	

Average of Peak Amounts = 0.2290

2	0.000	4.030	-4.030	0	0.0500	0	
2	4.334	4.333	0.001	37759	0.0500	0.4069	
2	4.473	4.470	0.003	43979	0.0500	0.2053	
2	4.788	4.786	0.002	30625	0.0500	0.1672	

Average of Peak Amounts = 0.2598

RPD = 12.60

\$ 12 DCB Decachlorobiphenyl

1	6.211	6.207	0.004	7533	0.002000	0.002170	
2	5.665	5.661	0.004	6197	0.002000	0.002345	

RPD = 7.76

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00057

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 23-Oct-2015 09:56:32

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D

Injection Date: 23-Oct-2015 08:46:51

Instrument ID: HP5890-12

Operator ID: buftchrom

Lims ID: 480-89678-A-1-B MSD

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

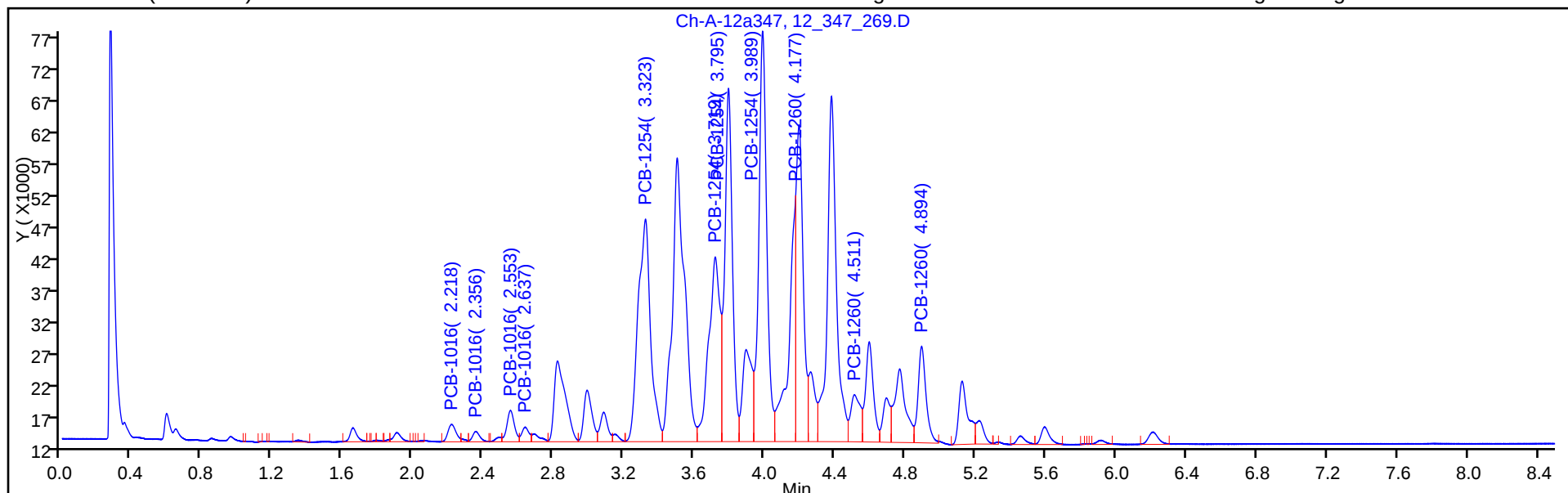
ALS Bottle#: 0

Method: hp12_pcb

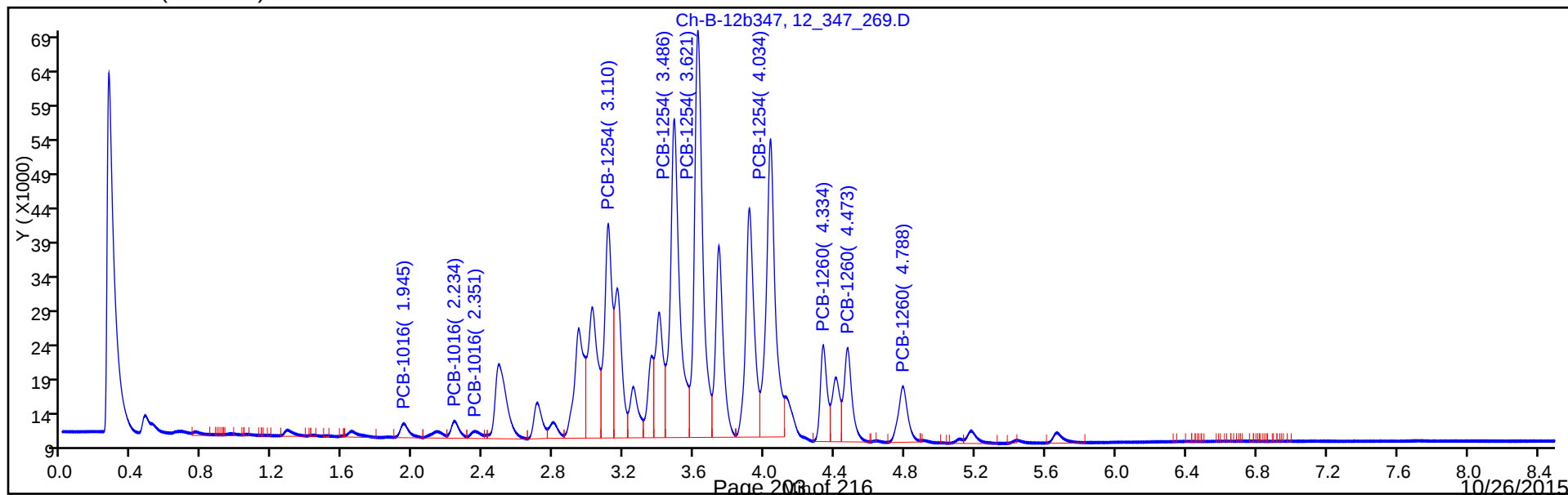
Limit Group: GC - 8082A PCB ICAL

Column: ZB-5 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: ZB-35 (0.53 mm)



10/26/2015

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20151023-47583.b\12_347_269.D

Injection Date: 23-Oct-2015 08:46:51

Instrument ID: HP5890-12

Lims ID: 480-89678-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

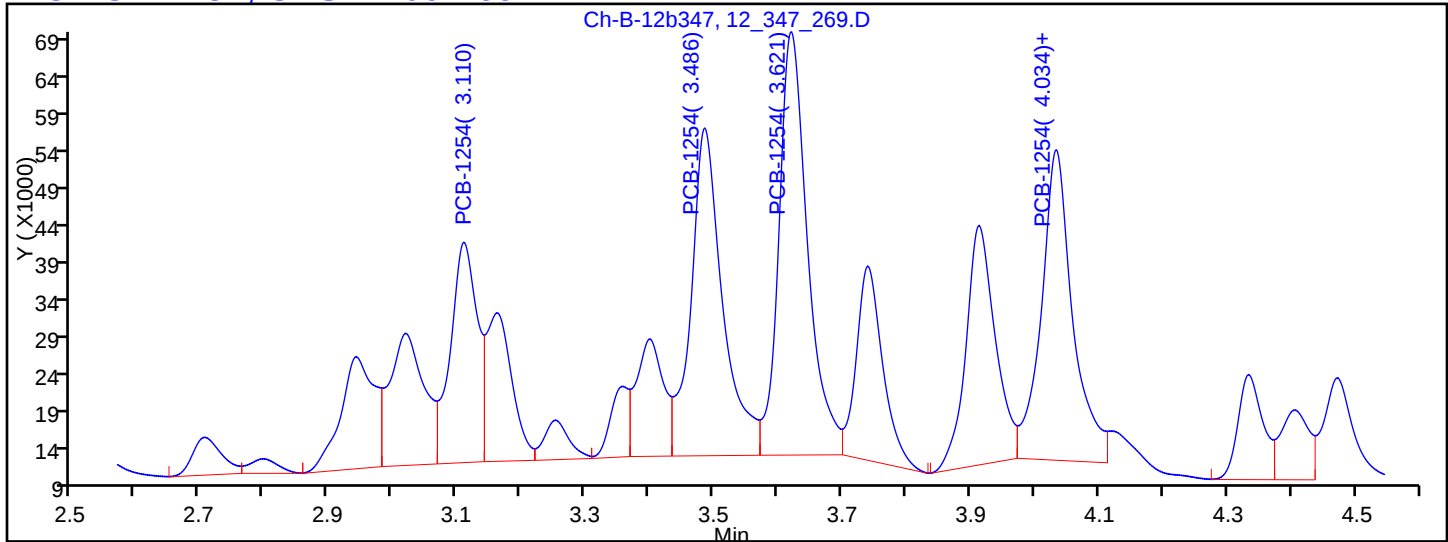
Dil. Factor: 10.0000

Method: hp12_pcb

Limit Group: GC - 8082A PCB ICAL

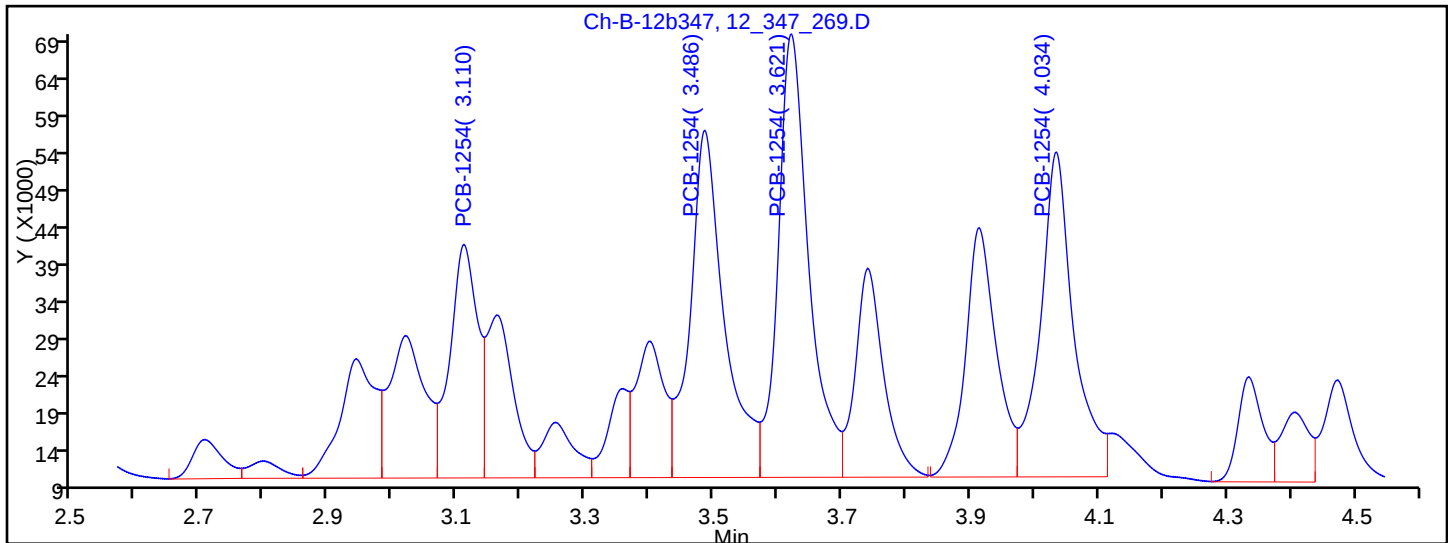
Column: ZB-35 (0.53 mm)

Detector Ch-B-7b136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

RT = 3.110	Response = 85726	M
RT = 3.486	Response = 150197	M
RT = 3.621	Response = 176087	M
RT = 4.034	Response = 141436	M



Manual Integration Results

RT = 3.110	Response = 93303	M
RT = 3.486	Response = 171695	M
RT = 3.621	Response = 196715	M
RT = 4.034	Response = 157227	M

Reviewer: sobolk, 23-Oct-2015 09:29:14

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-89678-1

SDG No.: _____

Instrument ID: HP5890-12Start Date: 08/01/2015 13:14Analysis Batch Number: 256564End Date: 08/03/2015 14:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-256564/2		08/01/2015 13:14	1	12_339_292.D	ZB-5 0.25 (mm)
IC 480-256564/2		08/01/2015 13:14	1	12_339_292.D	ZB-35 0.53 (mm)
IC 480-256564/3		08/01/2015 13:29	1	12_339_293.D	ZB-5 0.25 (mm)
IC 480-256564/3		08/01/2015 13:29	1	12_339_293.D	ZB-35 0.53 (mm)
IC 480-256564/4		08/01/2015 13:43	1	12_339_294.D	ZB-5 0.25 (mm)
IC 480-256564/4		08/01/2015 13:43	1	12_339_294.D	ZB-35 0.53 (mm)
IC 480-256564/5		08/01/2015 13:58	1	12_339_295.D	ZB-5 0.25 (mm)
IC 480-256564/5		08/01/2015 13:58	1	12_339_295.D	ZB-35 0.53 (mm)
IC 480-256564/6		08/01/2015 14:13	1	12_339_296.D	ZB-5 0.25 (mm)
IC 480-256564/6		08/01/2015 14:13	1	12_339_296.D	ZB-35 0.53 (mm)
IC 480-256564/7		08/01/2015 14:28	1	12_339_297.D	ZB-5 0.25 (mm)
IC 480-256564/7		08/01/2015 14:28	1	12_339_297.D	ZB-35 0.53 (mm)
IC 480-256564/8		08/01/2015 14:43	1	12_339_298.D	ZB-5 0.25 (mm)
IC 480-256564/8		08/01/2015 14:43	1	12_339_298.D	ZB-35 0.53 (mm)
IC 480-256564/12		08/01/2015 15:43	1	12_339_302.D	ZB-5 0.25 (mm)
IC 480-256564/12		08/01/2015 15:43	1	12_339_302.D	ZB-35 0.53 (mm)
ICV 480-256564/14		08/01/2015 16:13	1		ZB-5 0.25 (mm)
ICV 480-256564/14		08/01/2015 16:13	1		ZB-35 0.53 (mm)
IC 480-256564/17		08/01/2015 16:58	1	12_339_307.D	ZB-5 0.25 (mm)
IC 480-256564/17		08/01/2015 16:58	1	12_339_307.D	ZB-35 0.53 (mm)
ICV 480-256564/19		08/01/2015 17:28	1		ZB-5 0.25 (mm)
ICV 480-256564/19		08/01/2015 17:28	1		ZB-35 0.53 (mm)
IC 480-256564/22		08/01/2015 18:12	1	12_339_312.D	ZB-5 0.25 (mm)
IC 480-256564/22		08/01/2015 18:12	1	12_339_312.D	ZB-35 0.53 (mm)
ICV 480-256564/24		08/01/2015 18:42	1		ZB-5 0.25 (mm)
ICV 480-256564/24		08/01/2015 18:42	1		ZB-35 0.53 (mm)
IC 480-256564/27		08/01/2015 19:27	1	12_339_317.D	ZB-5 0.25 (mm)
IC 480-256564/27		08/01/2015 19:27	1	12_339_317.D	ZB-35 0.53 (mm)
ICV 480-256564/9		08/03/2015 14:39	1		ZB-5 0.25 (mm)
ICV 480-256564/9		08/03/2015 14:39	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1

SDG No.: _____

Instrument ID: HP5890-12 Start Date: 10/23/2015 07:32

Analysis Batch Number: 270588 End Date: 10/23/2015 09:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-270588/4		10/23/2015 07:32	1	12_347_264.D	ZB-5 0.25 (mm)
CCV 480-270588/4		10/23/2015 07:32	1	12_347_264.D	ZB-35 0.53 (mm)
MB 480-270529/1-A		10/23/2015 08:02	1	12_347_266.D	ZB-5 0.25 (mm)
MB 480-270529/1-A		10/23/2015 08:02	1	12_347_266.D	ZB-35 0.53 (mm)
LCS 480-270529/2-A		10/23/2015 08:17	1	12_347_267.D	ZB-5 0.25 (mm)
LCS 480-270529/2-A		10/23/2015 08:17	1	12_347_267.D	ZB-35 0.53 (mm)
480-89678-1 MS	TANK 2-SED MS	10/23/2015 08:32	10	12_347_268.D	ZB-5 0.25 (mm)
480-89678-1 MS	TANK 2-SED MS	10/23/2015 08:32	10	12_347_268.D	ZB-35 0.53 (mm)
480-89678-1 MSD	TANK 2-SED MSD	10/23/2015 08:46	10	12_347_269.D	ZB-5 0.25 (mm)
480-89678-1 MSD	TANK 2-SED MSD	10/23/2015 08:46	10	12_347_269.D	ZB-35 0.53 (mm)
480-89678-1	TANK 2-SED	10/23/2015 09:01	10	12_347_270.D	ZB-5 0.25 (mm)
480-89678-1	TANK 2-SED	10/23/2015 09:01	10	12_347_270.D	ZB-35 0.53 (mm)
ZZZZZ		10/23/2015 09:16	5		ZB-5 0.25 (mm)
ZZZZZ		10/23/2015 09:16	5		ZB-35 0.53 (mm)
CCV 480-270588/12		10/23/2015 09:31	1	12_347_272.D	ZB-5 0.25 (mm)
CCV 480-270588/12		10/23/2015 09:31	1	12_347_272.D	ZB-35 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1

SDG No.: _____

Batch Number: 270529 Batch Start Date: 10/22/15 18:07 Batch Analyst: Myers, Carmela ABatch Method: 3550C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00082	O_8082spike 00046	AnalysisComment
MB 480-270529/1		3550C, 8082A		CALC NOT SET TO RUN	+2.10 g	10 mL	1 mL		
LCS 480-270529/2		3550C, 8082A		CALC NOT SET TO RUN	+2.40 g	10 mL	1 mL	1 mL	
480-89678-A-1	TANK 2-SED	3550C, 8082A	T	CALC NOT SET TO RUN	+2.40 g	10 mL	1 mL	1 mL	Decanted
MS 480-89678-A-1	TANK 2-SED	3550C, 8082A	T	CALC NOT SET TO RUN	+2.35 g	10 mL	1 mL	1 mL	Decanted
MSD 480-89678-A-1	TANK 2-SED	3550C, 8082A	T	CALC NOT SET TO RUN	+2.32 g	10 mL	1 mL		Decanted

Batch Notes	
Acid used for Clean Up Reagent	Sulfuric; 2981523
Balance ID	40029
Blank Soil Lot Number	2858180
Analyst performed Clean Up	CM 10-22-15
Na2SO4 Lot Number	2858180
Nominal Amount Used	2 g
Prep Solvent Lot #	2987032
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10
Person's name who witnessed reagent drop	CM
Perform Calculation (0=No, 1=Yes)	0

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-89678-1

SDG No.: _____

Project: GE Tonawanda

Client Sample ID
TANK 2-SED

Lab Sample ID
480-89678-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-89678-1

SDG Number: _____

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-89678-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/22/2015 23:07 End Date: 10/22/2015 23:09

[illegible]

Prep Types

$$T = \text{Total}/NA$$

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89678-1

SDG No.: _____

Batch Number: 270568 Batch Start Date: 10/22/15 23:07 Batch Analyst: Kolb, Chris MBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-89678-A-1	TANK 2-SED	Moisture	T	2	4.35 g	19.13 g	17.18 g		

Batch Notes	
Batch Comment	pp-f-6a-15-s1
Date samples were placed in the oven	10/22/15
Time samples were place in the oven	2330

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 1 of 1

Shipping and Receiving Documents



480-89678 Chain of Custody

CHAIN OF CUSTODY RECORD

ECOM

LAB Test America
 COOLER 1 of 1
 PAGE 1 of 1

8022A
10/24/15

BOTTLE TYPE AND PRESERVATIVE

DELIVERY SERVICE: Drop off AIRBILL NO.: N/A

PROJECT NO. 60442945 SITE NAME GE Toronto

SAMPLERS (PRINT/SIGNATURE) Tom Urban / Tom Urban

TOTAL NO. # OF CONTAINERS 1

LOCATION IDENTIFIER

DATE

TIME

COMP/GRAB

SAMPLE ID

MATRIX

10/24/15 0845 GAB TANK 2 - SED SE 1

10/24/15 0845 GAB TANK 2 - SED SE 1

REMARKS

SAMPLE TYPE

BEGINNING DEPTH (IN FEET)

ENDING DEPTH (IN FEET)

FIELD LOT NO. # (RPMs ONLY)

24 hr TAT

MATRIX CODES

AA - AMBIENT AIR

SE - SEDIMENT

SH - HAZARDOUS SOLID WASTE

SL - SLUDGE

WP - DRINKING WATER

WW - WASTE WATER

WG - GROUND WATER

SO - SOIL

DC - DRILL CUTTINGS

WL - LEACHATE

GS - SOIL GAS

WC - DRILLING WATER

WO - OCEAN WATER

WS - SURFACE WATER

WQ - WATER FIELD QC

LH - HAZARDOUS LIQUID WASTE

LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK

SD# - MATRIX SPIKE DUPLICATE

RB# - RINSE BLANK

FR# - FIELD REPLICATE

N# - NORMAL ENVIRONMENTAL SAMPLE

MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE) Tom Urban

DATE 10/24/15

TIME 605

RECEIVED BY (SIGNATURE) [Signature]

DATE 10/24/15

TIME 1605

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

310 #1

Client: AECOM Technical Services Inc.

Job Number: 480-89678-1

Login Number: 89678

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	aecom
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	