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Type I Data Package

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

Project: Amtrak Wilmington
Soil Samples
Collected on 05/18/17

SDG# ATE55

GROUP	SAMPLE NUMBERS
1803885	9004840-9004859

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 06/16/2017**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Loran Carter at (717) 556-7252.

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Sample Reference List for SDG Number ATE55 with a Data Package Type of I

11289 - Stantec

Project: Amtrak Wilmington

Lab Sample Number	Client Sample ID	Collection Date	Date Received
9004840	H-18(0.0-0.3)	05/18/2017 12:19	05/19/2017 18:15
9004841	H-19(0.0-0.3)	05/18/2017 12:20	05/19/2017 18:15
9004842	H-19(0.0-0.3)MS	05/18/2017 12:20	05/19/2017 18:15
9004843	H-19(0.0-0.3)MSD	05/18/2017 12:20	05/19/2017 18:15
9004844	DUP-12	05/18/2017 12:20	05/19/2017 18:15
9004845	H-20(0.0-0.3)	05/18/2017 12:22	05/19/2017 18:15
9004846	H-20(0.5-0.8)	05/18/2017 12:25	05/19/2017 18:15
9004847	H-21(0.0-0.3)	05/18/2017 12:27	05/19/2017 18:15
9004848	H-21(0.5-0.8)	05/18/2017 12:33	05/19/2017 18:15
9004849	H-22(0.0-0.3)	05/18/2017 12:34	05/19/2017 18:15
9004850	H-22(0.5-0.8)	05/18/2017 12:40	05/19/2017 18:15
9004851	I-19(0.0-0.3)	05/18/2017 13:05	05/19/2017 18:15
9004852	J-19(0.0-0.3)	05/18/2017 13:06	05/19/2017 18:15
9004853	K-19(0.0-0.3)	05/18/2017 13:07	05/19/2017 18:15
9004854	I-20(0.0-0.3)	05/18/2017 13:08	05/19/2017 18:15
9004855	J-20(0.0-0.3)	05/18/2017 13:09	05/19/2017 18:15
9004856	K-20(0.0-0.3)	05/18/2017 13:10	05/19/2017 18:15
9004857	L-20(0.0-0.3)	05/18/2017 13:11	05/19/2017 18:15
9004858	I-21(0.0-0.3)	05/18/2017 13:14	05/19/2017 18:15
9004859	I-21(0.5-0.8)	05/18/2017 13:18	05/19/2017 18:15

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14248 PCB 10g Sonication Ext

Pesticides and/or PCBs are extracted from the sample using sonic probe with 1:1 methylene chloride and acetone. The extract is then concentrated and exchanged to hexane. Sulfuric acid, copper and florisil cleanups are performed to minimize matrix interferences.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3550B, December 1996.

10225 PCBs in Solids by 8082/3550

The sample is solvent-extracted and exchanged to hexane. Sulfuric acid and Florisil cleanups are performed to reduce potential matrix interferences. The extract is analyzed using gas chromatography on two capillary columns (primary and confirmation) with electron capture detectors.

Reference: Test Methods for Evaluating Solid Waste, SW-846 Method 8082, December 1996.

00111 Moisture
00118 Moisture
00121 Moisture Duplicate

A well-mixed sample is placed in a tared container and dried to a constant weight in an oven at 103-105C. The increase in weight is the total solids.

Reference: Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012, Method 2540 G-1997

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

Report Date: May 30, 2017

Project: Amtrak Wilmington

Submittal Date: 05/19/2017
Group Number: 1803885
SDG: ATE55
PO Number: 213402048
State of Sample Origin: DE

Client Sample Description	Lancaster Labs (LL) #
H-18(0.0-0.3) Grab Soil	9004840
H-19(0.0-0.3) Grab Soil	9004841
H-19(0.0-0.3)MS Grab Soil	9004842
H-19(0.0-0.3)MSD Grab Soil	9004843
DUP-12 Grab Soil	9004844
H-20(0.0-0.3) Grab Soil	9004845
H-20(0.5-0.8) Grab Soil	9004846
H-21(0.0-0.3) Grab Soil	9004847
H-21(0.5-0.8) Grab Soil	9004848
H-22(0.0-0.3) Grab Soil	9004849
H-22(0.5-0.8) Grab Soil	9004850
I-19(0.0-0.3) Grab Soil	9004851
J-19(0.0-0.3) Grab Soil	9004852
K-19(0.0-0.3) Grab Soil	9004853
I-20(0.0-0.3) Grab Soil	9004854
J-20(0.0-0.3) Grab Soil	9004855
K-20(0.0-0.3) Grab Soil	9004856
L-20(0.0-0.3) Grab Soil	9004857
I-21(0.0-0.3) Grab Soil	9004858
I-21(0.5-0.8) Grab Soil	9004859

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Stantec	Attn: Jon Zerbe
Electronic Copy To	Stantec	Attn: Paul Miller
Electronic Copy To	Stantec	Attn: Steve Baggett

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: H-18(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004840
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:19 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5501 SDG#: ATE55-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.6	2.6	50
10225	PCB-1221	11104-28-2	< 2.6	2.6	50
10225	PCB-1232	11141-16-5	< 2.6	2.6	50
10225	PCB-1242	53469-21-9	< 2.6	2.6	50
10225	PCB-1248	12672-29-6	< 2.6	2.6	50
10225	PCB-1254	11097-69-1	< 2.6	2.6	50
10225	PCB-1260	11096-82-5	4.4	2.6	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	2.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 19:23	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-19(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004841
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:20 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5502 SDG#: ATE55-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.5	2.5	50
10225	PCB-1221	11104-28-2	< 2.5	2.5	50
10225	PCB-1232	11141-16-5	< 2.5	2.5	50
10225	PCB-1242	53469-21-9	< 2.5	2.5	50
10225	PCB-1248	12672-29-6	< 2.5	2.5	50
10225	PCB-1254	11097-69-1	< 2.5	2.5	50
10225	PCB-1260	11096-82-5	7.0	2.5	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	2.1	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 19:34	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-19(0.0-0.3)MS Grab Soil
Amtrak Wilmington

LL Sample # SW 9004842
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:20 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5502 SDG#: ATE55-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.6	2.6	50
10225	PCB-1221	11104-28-2	< 2.6	2.6	50
10225	PCB-1232	11141-16-5	< 2.6	2.6	50
10225	PCB-1242	53469-21-9	< 2.6	2.6	50
10225	PCB-1248	12672-29-6	< 2.6	2.6	50
10225	PCB-1254	11097-69-1	< 2.6	2.6	50
10225	PCB-1260	11096-82-5	8.2	2.6	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00118	Moisture	n.a.	2.1	0.50	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 19:46	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00118	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-19(0.0-0.3)MSD Grab Soil
Amtrak Wilmington

LL Sample # SW 9004843
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:20 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5502 SDG#: ATE55-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.5	2.5	50
10225	PCB-1221	11104-28-2	< 2.5	2.5	50
10225	PCB-1232	11141-16-5	< 2.5	2.5	50
10225	PCB-1242	53469-21-9	< 2.5	2.5	50
10225	PCB-1248	12672-29-6	< 2.5	2.5	50
10225	PCB-1254	11097-69-1	< 2.5	2.5	50
10225	PCB-1260	11096-82-5	7.9	2.5	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00118	Moisture	n.a.	2.1	0.50	1
00121	Moisture Duplicate	n.a.	2.2	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 19:57	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00118	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1
00121	Moisture Duplicate	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: DUP-12 Grab Soil
Amtrak Wilmington

LL Sample # SW 9004844
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:20 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
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West Chester PA 19380

A5503 SDG#: ATE55-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.6	2.6	50
10225	PCB-1221	11104-28-2	< 2.6	2.6	50
10225	PCB-1232	11141-16-5	< 2.6	2.6	50
10225	PCB-1242	53469-21-9	< 2.6	2.6	50
10225	PCB-1248	12672-29-6	< 2.6	2.6	50
10225	PCB-1254	11097-69-1	< 2.6	2.6	50
10225	PCB-1260	11096-82-5	7.3	2.6	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	1.8	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 20:09	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-20(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004845
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:22 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5504 SDG#: ATE55-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.1	5.1	100
10225	PCB-1221	11104-28-2	< 5.1	5.1	100
10225	PCB-1232	11141-16-5	< 5.1	5.1	100
10225	PCB-1242	53469-21-9	< 5.1	5.1	100
10225	PCB-1248	12672-29-6	< 5.1	5.1	100
10225	PCB-1254	11097-69-1	< 5.1	5.1	100
10225	PCB-1260	11096-82-5	9.5	5.1	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	1.6	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 20:20	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-20(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004846
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:25 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5505 SDG#: ATE55-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.3	5.3	100
10225	PCB-1221	11104-28-2	< 5.3	5.3	100
10225	PCB-1232	11141-16-5	< 5.3	5.3	100
10225	PCB-1242	53469-21-9	< 5.3	5.3	100
10225	PCB-1248	12672-29-6	< 5.3	5.3	100
10225	PCB-1254	11097-69-1	< 5.3	5.3	100
10225	PCB-1260	11096-82-5	8.7	5.3	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.6	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 20:32	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-21(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004847
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:27 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5506 SDG#: ATE55-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.2	5.2	100
10225	PCB-1221	11104-28-2	< 5.2	5.2	100
10225	PCB-1232	11141-16-5	< 5.2	5.2	100
10225	PCB-1242	53469-21-9	< 5.2	5.2	100
10225	PCB-1248	12672-29-6	< 5.2	5.2	100
10225	PCB-1254	11097-69-1	< 5.2	5.2	100
10225	PCB-1260	11096-82-5	13	5.2	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	3.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 21:06	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-21(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004848
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:33 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5507 SDG#: ATE55-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 11	11	200
10225	PCB-1221	11104-28-2	< 11	11	200
10225	PCB-1232	11141-16-5	< 11	11	200
10225	PCB-1242	53469-21-9	< 11	11	200
10225	PCB-1248	12672-29-6	< 11	11	200
10225	PCB-1254	11097-69-1	< 11	11	200
10225	PCB-1260	11096-82-5	25	11	200
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	9.7	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 21:17	Jessica L Miller	200
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-22(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004849
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:34 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5508 SDG#: ATE55-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 11	11	200
10225	PCB-1221	11104-28-2	< 11	11	200
10225	PCB-1232	11141-16-5	< 11	11	200
10225	PCB-1242	53469-21-9	< 11	11	200
10225	PCB-1248	12672-29-6	< 11	11	200
10225	PCB-1254	11097-69-1	< 11	11	200
10225	PCB-1260	11096-82-5	17	11	200
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	4.4	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 21:29	Jessica L Miller	200
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: H-22(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004850
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 12:40 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5509 SDG#: ATE55-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 27	27	500
10225	PCB-1221	11104-28-2	< 27	27	500
10225	PCB-1232	11141-16-5	< 27	27	500
10225	PCB-1242	53469-21-9	< 27	27	500
10225	PCB-1248	12672-29-6	< 27	27	500
10225	PCB-1254	11097-69-1	< 27	27	500
10225	PCB-1260	11096-82-5	38	27	500
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 21:40	Jessica L Miller	500
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: I-19(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004851
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:05 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5510 SDG#: ATE55-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 0.26	0.26	5
10225	PCB-1221	11104-28-2	< 0.26	0.26	5
10225	PCB-1232	11141-16-5	< 0.26	0.26	5
10225	PCB-1242	53469-21-9	< 0.26	0.26	5
10225	PCB-1248	12672-29-6	< 0.26	0.26	5
10225	PCB-1254	11097-69-1	< 0.26	0.26	5
10225	PCB-1260	11096-82-5	3.1	0.26	5
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	7.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/28/2017 20:39	Kirby B Turner	5
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: J-19(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004852
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:06 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5511 SDG#: ATE55-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.6	2.6	50
10225	PCB-1221	11104-28-2	< 2.6	2.6	50
10225	PCB-1232	11141-16-5	< 2.6	2.6	50
10225	PCB-1242	53469-21-9	< 2.6	2.6	50
10225	PCB-1248	12672-29-6	< 2.6	2.6	50
10225	PCB-1254	11097-69-1	< 2.6	2.6	50
10225	PCB-1260	11096-82-5	4.2	2.6	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	4.0	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 22:15	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: K-19(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004853
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:07 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5512 SDG#: ATE55-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 6.0	6.0	100
10225	PCB-1221	11104-28-2	< 6.0	6.0	100
10225	PCB-1232	11141-16-5	< 6.0	6.0	100
10225	PCB-1242	53469-21-9	< 6.0	6.0	100
10225	PCB-1248	12672-29-6	< 6.0	6.0	100
10225	PCB-1254	11097-69-1	< 6.0	6.0	100
10225	PCB-1260	11096-82-5	11	6.0	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	15.3	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 22:26	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: I-20(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004854
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:08 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5513 SDG#: ATE55-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.3	5.3	100
10225	PCB-1221	11104-28-2	< 5.3	5.3	100
10225	PCB-1232	11141-16-5	< 5.3	5.3	100
10225	PCB-1242	53469-21-9	< 5.3	5.3	100
10225	PCB-1248	12672-29-6	< 5.3	5.3	100
10225	PCB-1254	11097-69-1	< 5.3	5.3	100
10225	PCB-1260	11096-82-5	11	5.3	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.9	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 22:38	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: J-20(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004855
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:09 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5514 SDG#: ATE55-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.3	5.3	100
10225	PCB-1221	11104-28-2	< 5.3	5.3	100
10225	PCB-1232	11141-16-5	< 5.3	5.3	100
10225	PCB-1242	53469-21-9	< 5.3	5.3	100
10225	PCB-1248	12672-29-6	< 5.3	5.3	100
10225	PCB-1254	11097-69-1	< 5.3	5.3	100
10225	PCB-1260	11096-82-5	15	5.3	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	5.2	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 22:49	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: K-20(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004856
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:10 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5515 SDG#: ATE55-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.7	2.7	50
10225	PCB-1221	11104-28-2	< 2.7	2.7	50
10225	PCB-1232	11141-16-5	< 2.7	2.7	50
10225	PCB-1242	53469-21-9	< 2.7	2.7	50
10225	PCB-1248	12672-29-6	< 2.7	2.7	50
10225	PCB-1254	11097-69-1	< 2.7	2.7	50
10225	PCB-1260	11096-82-5	15	2.7	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	7.1	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/28/2017 21:14	Kirby B Turner	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: L-20(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004857
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:11 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5516 SDG#: ATE55-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 5.4	5.4	100
10225	PCB-1221	11104-28-2	< 5.4	5.4	100
10225	PCB-1232	11141-16-5	< 5.4	5.4	100
10225	PCB-1242	53469-21-9	< 5.4	5.4	100
10225	PCB-1248	12672-29-6	< 5.4	5.4	100
10225	PCB-1254	11097-69-1	< 5.4	5.4	100
10225	PCB-1260	11096-82-5	7.0	5.4	100
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	8.7	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 23:24	Jessica L Miller	100
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: I-21(0.0-0.3) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004858
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:14 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5517 SDG#: ATE55-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 10	10	200
10225	PCB-1221	11104-28-2	< 10	10	200
10225	PCB-1232	11141-16-5	< 10	10	200
10225	PCB-1242	53469-21-9	< 10	10	200
10225	PCB-1248	12672-29-6	< 10	10	200
10225	PCB-1254	11097-69-1	< 10	10	200
10225	PCB-1260	11096-82-5	25	10	200
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	4.5	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 23:35	Jessica L Miller	200
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

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Analysis Report

Sample Description: I-21(0.5-0.8) Grab Soil
Amtrak Wilmington

LL Sample # SW 9004859
LL Group # 1803885
Account # 11289

Project Name: Amtrak Wilmington

Collected: 05/18/2017 13:18 by JZ

Submitted: 05/19/2017 18:15
Reported: 05/30/2017 14:37

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

A5518 SDG#: ATE55-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**mg/kg**	**mg/kg**	
10225	PCB-1016	12674-11-2	< 2.7	2.7	50
10225	PCB-1221	11104-28-2	< 2.7	2.7	50
10225	PCB-1232	11141-16-5	< 2.7	2.7	50
10225	PCB-1242	53469-21-9	< 2.7	2.7	50
10225	PCB-1248	12672-29-6	< 2.7	2.7	50
10225	PCB-1254	11097-69-1	< 2.7	2.7	50
10225	PCB-1260	11096-82-5	6.9	2.7	50
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	8.6	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	PCBs in Solids by 8082/3550	SW-846 8082	1	171440031A	05/26/2017 23:47	Jessica L Miller	50
14248	PCB 10g Sonication Ext	SW-846 3550B	1	171440031A	05/25/2017 09:00	Michelle A Newswanger	1
00111	Moisture	SM 2540 G-1997	1	17145820008B	05/26/2017 10:14	William C Schwebel	1

Quality Control Summary

Client Name: Stantec
Reported: 05/30/2017 14:37

Group Number: 1803885

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result mg/kg	LOQ mg/kg
Batch number: 171440031A	Sample number(s): 9004840-9004859	
PCB-1016	< 0.051	0.051
PCB-1221	< 0.051	0.051
PCB-1232	< 0.051	0.051
PCB-1242	< 0.051	0.051
PCB-1248	< 0.051	0.051
PCB-1254	< 0.051	0.051
PCB-1260	< 0.051	0.051

LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 171440031A	Sample number(s): 9004840-9004859								
PCB-1016	0.501	0.508			101		80-121		
PCB-1260	0.504	0.541			107		84-125		
	%	%	%	%					
Batch number: 17145820008B	Sample number(s): 9004840-9004859								
Moisture	89.5	89.42			100		99-101		
Moisture	89.5	89.42			100		99-101		
Moisture Duplicate	89.5	89.42			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 171440031A	Sample number(s): 9004840-9004859 UNSPK: 9004841									
PCB-1016	< 2.5	0.493	< 2.5	0.480	< 2.4	0*	0*	80-121	0	50
PCB-1260	6.90	0.496	8.02	0.484	7.73	227 (2)	171 (2)	84-125	4	50

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 05/30/2017 14:37

Group Number: 1803885

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Batch number: 17145820008B	Sample number(s): 9004840-9004859 BKG: 9004841, P004841			
Moisture	2.07	2.17	5 (1)	5
Moisture	2.07	2.17	5 (1)	5
Moisture Duplicate	2.07	2.17	5 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Solids by 8082/3550
Batch number: 171440031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
9004840	106	133
9004841	110	144
9004842	122	136
9004843	118	136
9004844	120	143
9004845	132	162
9004846	133	162
9004847	128	161
9004848	126	170*
9004849	128	163
9004850	140	187*
9004851	104	130
9004852	112	142
9004853	123	146
9004854	120	158
9004855	122	168*
9004856	119	162
9004857	98	141
9004858	129	191*
9004859	75	108

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 05/30/2017 14:37

Group Number: 1803885

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Solids by 8082/3550
Batch number: 171440031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
Blank	121	109
LCS	114	107
MS	122	136
MSD	118	136
Limits:	61-152	48-164

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 11289 Group # 1803885 Sample # 9004840-59

COC # 528923 5 of 9

Client Information

Client: Stantec

Acct. #:

Project Name/#: Anitole Wilmington

PWSID #:

Project Manager: Paul Miller

P.O. #:

Sampler: Jon Zerbe

Quote #:

State where samples were collected: DE

For Compliance: Yes ☐ No ☐

Matrix

Soil ☒ Sediment ☐ Tissue ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested

Preservation Codes

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Total # of Containers	PCBs 3550b
H-18 (0.0-0.3)	5-18-17	1219	X		X	1	X
H-19 (0.0-0.3)		1220					
H-19 (0.0-0.3) MS		1220					
H-19 (0.0-0.3) MSD		1220					
DUP-12		1220					
H-20 (0.0-0.3)		1227					
H-20 (0.5-0.8)		1225					
H-21 (0.0-0.3)		1227					
H-21 (0.5-0.8)		1233					
H-22 (0.0-0.3)		1234					

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-19-17	1255	[signature]	5-19-17	1255
[signature]	5-19-17	1815			
			[signature]	5/19/17	1815

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) NJ DKQP TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.5-2.1 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 11289 Group # 1803885 Sample # 9004840-59

COC # 528925 6 of 9

Client Information	
Client: Stantec	Acct. #:
Project Name/#: Amtrak Wilmington	PWSID #:
Project Manager: Paul Miller	P.O. #:
Sampler: Jon Zerbe	Quote #:
State where samples were collected: DE	For Compliance: Yes ☐ No ☐

Matrix: Soil ☒ Sediment ☐ Tissue ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested — Preservation Codes

For Lab Use Only
FSC: ____
SCR#: ____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Other	Total # of Containers	PCBs 3550b	Remarks
H-22 (0.5-0.8)	5-18-17	1240	X		X			1	X	
I-19 (0.0-0.3)		1305								
J-19 (0.0-0.3)		1306								
K-19 (0.0-0.3)		1307								
I-20 (0.0-0.3)		1308								
J-20 (0.0-0.3)		1309								
K-20 (0.0-0.3)		1310								
L-20 (0.0-0.3)		1311								
I-21 (0.0-0.3)		1314								
I-21 (0.5-0.8)		1318								

Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-9-17	1255	[signature]	5-9-17	1255
[signature]	5-19-17	1815			
			[signature]	5/19/17	1815

Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) NJ DKQP TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.5-2.1°C

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Sample Administration Receipt Documentation Log

Doc Log ID: 184256

Group Number(s): 1803885

Client: Stantec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/19/2017 18:15
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	DE		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Simon Nies (25112) at 22:07 on 05/19/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	2.1	DT	Wet	Y	Bagged	N
2	DT146	1.5	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17601-2925
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Polychlorinated Biphenyls (PCBs) Data

Case Narrative/Conformance Summary

Polychlorinated Biphenyls (PCBs)

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ATE55

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
9004840	H-18(0.0-0.3)		X	50	
9004841	H-19(0.0-0.3)		X	50	Unspiked
9004842	H-19(0.0-0.3)MS		X	50	Matrix Spike
9004843	H-19(0.0-0.3)MSD		X	50	Matrix Spike Duplicate
9004844	DUP-12		X	50	Field Duplicate Sample
9004845	H-20(0.0-0.3)		X	100	
9004846	H-20(0.5-0.8)		X	100	
9004847	H-21(0.0-0.3)		X	100	
9004848	H-21(0.5-0.8)		X	200	
9004849	H-22(0.0-0.3)		X	200	
9004850	H-22(0.5-0.8)		X	500	
9004851	I-19(0.0-0.3)		X	5	
9004852	J-19(0.0-0.3)		X	50	
9004853	K-19(0.0-0.3)		X	100	
9004854	I-20(0.0-0.3)		X	100	
9004855	J-20(0.0-0.3)		X	100	
9004856	K-20(0.0-0.3)		X	50	
9004857	L-20(0.0-0.3)		X	100	
9004858	I-21(0.0-0.3)		X	200	
9004859	I-21(0.5-0.8)		X	50	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

(Sample number(s): 9004840-9004859: Analysis: 10225)
For dual column analyses in which the calibration (initial and/or

Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ATE55

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

continuing) response is outside the acceptance criteria on one column and within criteria on the second column affected analytes are reported from the compliant column. The sample raw data identifies the column used to report each analyte.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD results.

Batch#: 171440031A (Sample number(s): 9004840-9004859, UNSPK: 9004841)
The recovery(ies) for the following analyte(s) in the MS and MSD were below the acceptance window: PCB-1016
The recovery(ies) for the following analyte(s) in the MS and MSD exceeded the acceptance window indicating a positive bias: PCB-1260

Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

Batch#: 171440031A (Sample number(s): 9004840-9004859, UNSPK: 9004841)
The recovery(ies) for the following surrogate(s) exceeded the acceptance window:
Decachlorobiphenyl (9004848, 9004850, 9004855, 9004858)

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Quality Control and Calibration Summary Forms

Polychlorinated Biphenyls (PCBs)

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Quality Control Reference List
Pesticide Residue Analysis

CLIENT: Stantec
SDG: ATE55

Fraction: Polychlorinated Biphenyls (PCBs)

Analysis	Batch Number	Sample Number	Analysis Date
PCBs in Solids by 8082/3550	171440031A	PBLK31144	05/26/2017 19:00:00
		LCS31144	05/26/2017 19:11:00
		9004840	05/26/2017 19:23:00
		9004841 UNSPK	05/26/2017 19:34:00
		9004842 MS	05/26/2017 19:46:00
		9004843 MSD	05/26/2017 19:57:00
		9004844	05/26/2017 20:09:00
		9004845	05/26/2017 20:20:00
		9004846	05/26/2017 20:32:00
		9004847	05/26/2017 21:06:00
		9004848	05/26/2017 21:17:00
		9004849	05/26/2017 21:29:00
		9004850	05/26/2017 21:40:00
		9004851	05/28/2017 20:39:00
		9004852	05/26/2017 22:15:00
		9004853	05/26/2017 22:26:00
		9004854	05/26/2017 22:38:00
		9004855	05/26/2017 22:49:00
		9004856	05/28/2017 21:14:00
		9004857	05/26/2017 23:24:00
		9004858	05/26/2017 23:35:00
		9004859	05/26/2017 23:47:00

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Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: ATE55
Matrix: SOLID

Fraction: Polychlorinated Biphenyls (PCBs)

171440031A / PBLK31144 **Analyte**	**Analysis Date**	**Blank Results**	**Units**	**MDL**	**LOQ**
PCB-1016	05/26/17	N.D.	mg/kg	0.0099	0.051
PCB-1221	05/26/17	N.D.	mg/kg	0.015	0.051
PCB-1232	05/26/17	N.D.	mg/kg	0.012	0.051
PCB-1242	05/26/17	N.D.	mg/kg	0.012	0.051
PCB-1248	05/26/17	N.D.	mg/kg	0.0099	0.051
PCB-1254	05/26/17	N.D.	mg/kg	0.013	0.051
PCB-1260	05/26/17	N.D.	mg/kg	0.012	0.051

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Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: ATE55
Matrix: SOLID

Fraction: Polychlorinated Biphenyls (PCBs)

171440031A	**Decachlorobiphenyl**		**Tetrachloro-m-xylene**	
	Spike Added	29.3 ug/kg	**Spike Added**	29.2 ug/kg
Sample	**% Recovery**	**Limits**	**% Recovery**	**Limits**
PBLK31144	109	48 - 164	121	61 - 152
LCS31144	107	48 - 164	114	61 - 152
9004840	133	48 - 164	106	61 - 152
9004841 UNSPK	144	48 - 164	110	61 - 152
9004842 MS	136	48 - 164	122	61 - 152
9004843 MSD	136	48 - 164	118	61 - 152
9004844	143	48 - 164	120	61 - 152
9004845	162	48 - 164	132	61 - 152
9004846	162	48 - 164	133	61 - 152
9004847	161	48 - 164	128	61 - 152
9004848	170 *	48 - 164	126	61 - 152
9004849	163	48 - 164	128	61 - 152
9004850	187 *	48 - 164	140	61 - 152
9004851	130	48 - 164	104	61 - 152
9004852	142	48 - 164	112	61 - 152
9004853	146	48 - 164	123	61 - 152
9004854	158	48 - 164	120	61 - 152
9004855	168 *	48 - 164	122	61 - 152
9004856	162	48 - 164	119	61 - 152
9004857	141	48 - 164	98	61 - 152
9004858	191 *	48 - 164	129	61 - 152
9004859	108	48 - 164	75	61 - 152

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

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Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: ATE55
Matrix: SOLID

Pesticide Residue Analysis
Fraction: Polychlorinated Biphenyls (PCBs)

UNSPK: 9004841 MS: 9004842 MSD: 9004843 **Analyte**	Batch: **171440031A** (Sample number(s): 9004840-9004859)								
	Spike Added mg/kg MS/MSD	**Unspiked Conc mg/kg**	**MS Conc mg/kg**	**MSD Conc mg/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	0.493 / 0.480	N.D.	N.D.	N.D.	0 *	0 *	80-121	0	50
PCB-1260	0.496 / 0.484	6.90	8.02	7.73	227 (2)	171 (2)	84-125	4	50

Comments:
(2) The unspiked sample result is greater than four times the spike added.
* = Out of Specification

Results are being reported on an as received basis.

Lancaster Laboratories Environmental

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: ATE55
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

LCS: LCS31144	Batch: **171440031A** (Sample number(s): 9004840-9004859)							
Analyte	**Spike Added mg/kg**	**LCS Conc mg/kg**	**LCSD Conc mg/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	0.501	0.508	NA	101	NA	80-121	NA	NA
PCB-1260	0.504	0.541	NA	107	NA	84-125	NA	NA

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	2.92	2.92	2.92	2.92	2.92	2.92	2.89	2.95
Decachlorobiphenyl	6.61	6.61	6.61	6.61	6.61	6.61	6.58	6.64

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	1.10E+05	1.13E+05	1.14E+05	1.16E+05	1.16E+05	1.14E+05	2
Decachlorobiphenyl	7.29E+04	6.92E+04	6.43E+04	6.84E+04	6.93E+04	6.88E+04	4

Average % RSD: 3

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	3.18	3.16	3.20	2306	2052	1	50.01	115327	9
					2149		2	100.02	214919	
					2049		3	200.04	409975	
					1904		4	500.1	952439	
					1851		5	1000.2	1850936	
	2	3.39	3.37	3.41	2406	2095	1	50.01	120312	10
					2147		2	100.02	214700	
					2084		3	200.04	416894	
					1887		4	500.1	943890	
					1952		5	1000.2	1952608	
	3	3.51	3.49	3.53	2634	2359	1	50.01	131734	8
					2422		2	100.02	242210	
					2378		3	200.04	475744	
					2245		4	500.1	1122490	
					2116		5	1000.2	2116157	
	4	3.73	3.71	3.75	2832	2613	1	50.01	141614	6
					2692		2	100.02	269286	
					2499		3	200.04	499852	
					2565		4	500.1	1282676	
					2480		5	1000.2	2480108	
	5	3.78	3.76	3.80	2304	2138	1	50.01	115235	5
					2063		2	100.02	206316	
					2097		3	200.04	419475	
					2146		4	500.1	1073439	
					2078		5	1000.2	2078035	
	6	3.98	3.96	4.00	1862	1714	1	50.01	93099	6
					1749		2	100.02	174917	
					1695		3	200.04	339155	
					1625		4	500.1	812490	
					1639		5	1000.2	1639692	
Aroclor-1221	1	3.08	3.06	3.10	983	983	1	200.1	196682	0
	2	3.13	3.11	3.15	850	850	1	200.1	170034	0
	3	3.18	3.16	3.20	2745	2745	1	200.1	549305	0
Aroclor-1232	1	3.18	3.16	3.20	2462	2462	1	200.6	493963	0
	2	3.40	3.38	3.42	991	991	1	200.6	198764	0
	3	3.51	3.49	3.53	1087	1087	1	200.6	218093	0
	4	3.73	3.71	3.75	1179	1179	1	200.6	236587	0
	5	3.79	3.77	3.81	925	925	1	200.6	185481	0
	6	3.98	3.96	4.00	715	715	1	200.6	143380	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	3.18	3.16	3.20	1758	1758	1	200	351560	0
	2	3.40	3.38	3.42	1736	1736	1	200	347157	0
	3	3.51	3.49	3.53	1901	1901	1	200	380135	0
	4	3.73	3.71	3.75	2138	2138	1	200	427632	0
	5	3.79	3.77	3.81	1674	1674	1	200	334814	0
	6	3.98	3.96	4.00	1369	1369	1	200	273708	0
Aroclor-1248	1	3.78	3.76	3.80	1282	1161	1	50.16	64312	6
					1183		2	100.32	118635	
					1125		3	200.64	225668	
					1116		4	501.6	559879	
					1097		5	1003.2	1100756	
	2	3.85	3.83	3.87	2405	2111	1	50.16	120639	10
					2249		2	100.32	225584	
					2048		3	200.64	411007	
					1936		4	501.6	971043	
					1915		5	1003.2	1921107	
	3	3.98	3.96	4.00	2682	2486	1	50.16	134537	7
					2635		2	100.32	264307	
					2430		3	200.64	487480	
					2304		4	501.6	1155522	
					2378		5	1003.2	2385746	
	4	4.07	4.05	4.09	2214	2066	1	50.16	111038	5
					2147		2	100.32	215342	
					2007		3	200.64	402590	
					2002		4	501.6	1004437	
					1962		5	1003.2	1968562	
	5	4.25	4.23	4.27	2508	2448	1	50.16	125818	3
					2554		2	100.32	256218	
					2351		3	200.64	471790	
					2445		4	501.6	1226616	
					2380		5	1003.2	2387278	
	6	4.63	4.61	4.65	1934	1794	1	50.16	96997	5
					1829		2	100.32	183459	
					1776		3	200.64	356304	
					1712		4	501.6	858936	
					1721		5	1003.2	1726522	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	4.23	4.21	4.25	3160	2886	1	50.3	158940	7
					3033		2	100.6	305110	
					2743		3	251.5	689965	
					2779		4	503	1397875	
					2715		5	1006	2731089	
	2	4.57	4.55	4.59	3132	2900	1	50.3	157523	5
					2830		2	100.6	284736	
					2729		3	251.5	686384	
					2891		4	503	1454115	
					2920		5	1006	2937191	
	3	4.63	4.61	4.65	6023	5858	1	50.3	302959	2
					5927		2	100.6	596274	
					5739		3	251.5	1443245	
					5825		4	503	2930175	
					5775		5	1006	5809577	
	4	4.75	4.73	4.77	1973	1758	1	50.3	99229	8
					1826		2	100.6	183692	
					1652		3	251.5	415415	
					1688		4	503	849024	
					1653		5	1006	1662863	
	5	4.85	4.83	4.87	4050	3871	1	50.3	203718	3
					3913		2	100.6	393671	
					3754		3	251.5	944204	
					3728		4	503	1875048	
					3910		5	1006	3933572	
	6	5.16	5.14	5.18	4097	3976	1	50.3	206064	2
					3959		2	100.6	398325	
					3832		3	251.5	963852	
					3979		4	503	2001599	
					4015		5	1006	4038610	

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	4.75	4.73	4.77	4426	4191	1	50.05	221540	3
					4127		2	100.1	413142	
					4175		3	200.2	835899	
					4139		4	500.5	2071612	
					4086		5	1001	4090584	
	2	5.05	5.03	5.07	2343	2316	1	50.05	117261	1
					2319		2	100.1	232102	
					2267		3	200.2	453871	
					2315		4	500.5	1158517	
					2335		5	1001	2337167	
	3	5.22	5.20	5.24	2873	2711	1	50.05	143814	5
					2785		2	100.1	278765	
					2740		3	200.2	548490	
					2619		4	500.5	1310605	
					2540		5	1001	2543038	
	4	5.39	5.37	5.41	3345	3094	1	50.05	167397	8
					2812		2	100.1	281443	
					3269		3	200.2	654544	
					3228		4	500.5	1615414	
					2815		5	1001	2818184	
	5	5.63	5.61	5.65	7610	7500	1	50.05	380872	4
					6993		2	100.1	700029	
					7571		3	200.2	1515702	
					7688		4	500.5	3847696	
					7636		5	1001	7643374	
	6	5.84	5.82	5.86	4241	4213	1	50.05	212271	2
					4252		2	100.1	425595	
					4283		3	200.2	857403	
					4100		4	500.5	2051991	
					4189		5	1001	4193396	
Aroclor-1262	1	5.23	5.21	5.25	4992	4992	1	200.8	1002432	0
	2	5.39	5.37	5.41	4033	4033	1	200.8	809822	0
	3	5.63	5.61	5.65	9748	9748	1	200.8	1957322	0
	4	5.83	5.81	5.85	5387	5387	1	200.8	1081708	0
	5	5.89	5.87	5.91	2669	2669	1	200.8	535861	0
	6	6.27	6.25	6.29	3247	3247	1	200.8	651921	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Calibration File: 20PCBS1713701

GC Column (1) : ZBmultiR1 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	5.83	5.81	5.85	11979	11979	1	201	2407763	0
	2	5.89	5.87	5.91	10452	10452	1	201	2100808	0
	3	6.02	6.00	6.04	9746	9746	1	201	1958924	0
	4	6.09	6.07	6.11	2234	2234	1	201	449104	0
	5	6.27	6.25	6.29	4026	4026	1	201	809132	0
	6	6.47	6.45	6.49	31503	31503	1	201	6332050	0

File Name: V:\CP20\20pcbs1713701.CAL
Version: 7

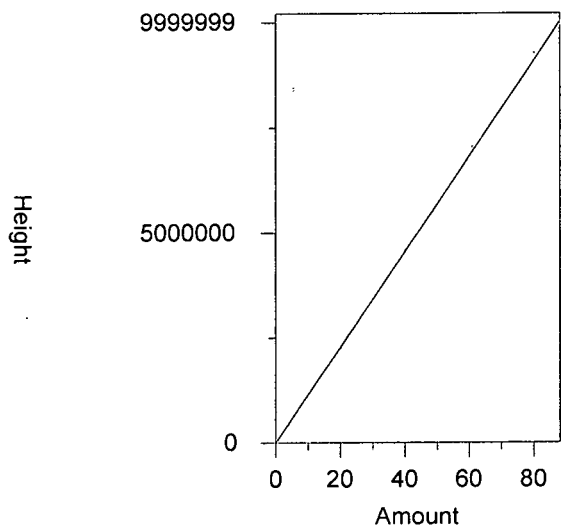
Creator:
Description:
Reason for change:

External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 50
Amount units: PPB
No default component

Method of calculating data point averages: Current update equal to cal data
Print calibration update report

All levels are normal data points.

1 TCX



Expected retention time: 2.923 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0.1
Low alarm limit: 0
Component constant: 0

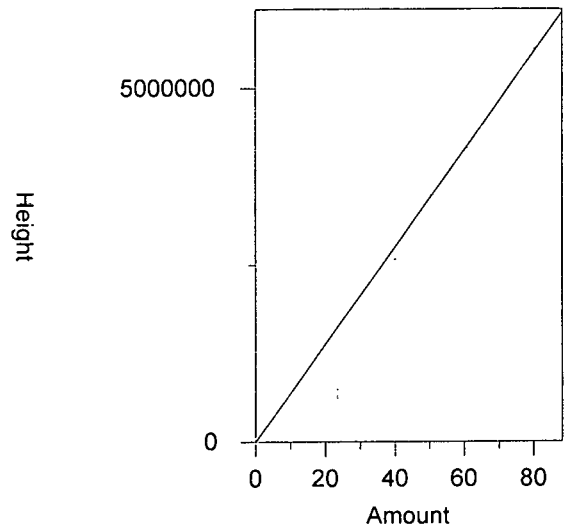
Single peak quantification by height

Y = 113640.5 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9990097
Average error: 1.793%
Average CF: 113640.5
RSD: 2.329%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	439163.3	109517	-3.629	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.007.BNC
2	20.04	2257924	112670.9	-0.853	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.008.BNC
3	40.08	4583477	114358.2	0.632	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.009.BNC
4	60.92	7055128	115809.7	1.909	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.010.BNC
5	80.16	9286271	115846.7	1.941	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.011.BNC

2 DCB



Expected retention time:	6.609 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0.2
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 68816.38 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9979855
Average error:	2.906%
Average CF:	68816.38
RSD:	4.470%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	292285.8	72889.23	5.918	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.00
2	20.04	1387708	69246.91	0.626	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.00
3	40.08	2576136	64274.85	-6.599	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.00
4	60.92	4164353	68357.73	-0.666	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.01
5	80.16	5556144	69313.17	0.722	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.01

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	2.62	2.62	2.62	2.62	2.62	2.62	2.59	2.65
Decachlorobiphenyl	6.11	6.11	6.11	6.11	6.11	6.11	6.08	6.14

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	6.59E+05	6.78E+05	7.07E+05	7.07E+05	7.06E+05	6.91E+05	3
Decachlorobiphenyl	5.13E+05	4.93E+05	4.78E+05	4.79E+05	4.74E+05	4.87E+05	3

Average % RSD: 3

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	2.90	2.88	2.92	12697	11308	1	50.01	634997	9
					11782		2	100.02	1178404	
					11258		3	200.04	2252085	
					10688		4	500.1	5345188	
					10113		5	1000.2	10114640	
	2	3.23	3.21	3.25	15601	14052	1	50.01	780216	8
					14579		2	100.02	1458177	
					13945		3	200.04	2789487	
					13376		4	500.1	6689352	
					12760		5	1000.2	12762260	
	3	3.42	3.40	3.44	15040	14120	1	50.01	752133	5
					14220		2	100.02	1422333	
					14267		3	200.04	2853916	
					13250		4	500.1	6626458	
					13823		5	1000.2	13825460	
	4	3.49	3.47	3.51	17197	16698	1	50.01	860044	3
					16884		2	100.02	1688703	
					16943		3	200.04	3389307	
					15981		4	500.1	7991920	
					16486		5	1000.2	16489420	
	5	3.65	3.63	3.67	15163	14030	1	50.01	758311	6
					14372		2	100.02	1437489	
					14028		3	200.04	2806160	
					13612		4	500.1	6807312	
					12973		5	1000.2	12975370	
	6	3.74	3.72	3.76	12742	12022	1	50.01	637243	4
					12267		2	100.02	1226975	
					11884		3	200.04	2377296	
					11676		4	500.1	5839000	
					11540		5	1000.2	11542480	
Aroclor-1221	1	2.79	2.77	2.81	5968	5968	1	200.1	1194106	0
	2	2.85	2.83	2.87	3679	3679	1	200.1	736099	0
	3	2.90	2.88	2.92	15260	15260	1	200.1	3053589	0
Aroclor-1232	1	2.90	2.88	2.92	13815	13815	1	200.6	2771218	0
	2	3.23	3.21	3.25	6677	6677	1	200.6	1339343	0
	3	3.42	3.40	3.44	5973	5973	1	200.6	1198255	0
	4	3.49	3.47	3.51	7339	7339	1	200.6	1472147	0
	5	3.68	3.66	3.70	2004	2004	1	200.6	402038	0
	6	3.75	3.73	3.77	5254	5254	1	200.6	1054047	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	2.90	2.88	2.92	9723	9723	1	200	1944532	0
	2	3.23	3.21	3.25	11612	11612	1	200	2322300	0
	3	3.42	3.40	3.44	11419	11419	1	200	2283706	0
	4	3.49	3.47	3.51	13050	13050	1	200	2610073	0
	5	3.66	3.64	3.68	10745	10745	1	200	2148996	0
	6	3.75	3.73	3.77	9625	9625	1	200	1924911	0
Aroclor-1248	1	3.42	3.40	3.44	6114	5569	1	50.16	306693	9
					5944		2	100.32	596263	
					5630		3	200.64	1129540	
					4881		4	501.6	2448493	
					5276		5	1003.2	5292533	
	2	3.53	3.51	3.55	17248	15707	1	50.16	865156	7
					15984		2	100.32	1603513	
					15904		3	200.64	3190942	
					14927		4	501.6	7487300	
					14471		5	1003.2	14516990	
	3	3.65	3.63	3.67	21134	19623	1	50.16	1060079	6
					20336		2	100.32	2040152	
					19443		3	200.64	3901099	
					18952		4	501.6	9506378	
					18251		5	1003.2	18309420	
	4	3.74	3.72	3.76	14897	14169	1	50.16	747212	4
					14415		2	100.32	1446082	
					13940		3	200.64	2796950	
					14002		4	501.6	7023268	
					13594		5	1003.2	13637050	
	5	3.88	3.86	3.90	28043	26838	1	50.16	1406614	3
					27418		2	100.32	2750550	
					26688		3	200.64	5354666	
					26132		4	501.6	13107570	
					25910		5	1003.2	25993180	
	6	4.24	4.22	4.26	12708	11866	1	50.16	637437	6
					12266		2	100.32	1230562	
					11833		3	200.64	2374166	
					11589		4	501.6	5812918	
					10934		5	1003.2	10969450	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	4.18	4.16	4.20	21640	20906	1	50.3	1088486	4
					21189		2	100.6	2131657	
					19723		3	251.5	4960347	
					20502		4	503	10312280	
					21475		5	1006	21603490	
	2	4.24	4.22	4.26	39358	37094	1	50.3	1979718	4
					37156		2	100.6	3737878	
					35247		3	251.5	8864505	
					36757		4	503	18488900	
					36953		5	1006	37174280	
	3	4.33	4.31	4.35	18912	17256	1	50.3	951254	6
					17592		2	100.6	1769741	
					16589		3	251.5	4172151	
					16648		4	503	8373806	
					16538		5	1006	16637400	
	4	4.40	4.38	4.42	26081	24936	1	50.3	1311884	3
					24554		2	100.6	2470128	
					23888		3	251.5	6007734	
					25160		4	503	12655280	
					24997		5	1006	25147190	
	5	4.46	4.44	4.48	16107	14360	1	50.3	810169	7
					14494		2	100.6	1458073	
					13670		3	251.5	3438030	
					13779		4	503	6931070	
					13749		5	1006	13831460	
	6	4.62	4.60	4.64	17518	17494	1	50.3	881164	3
					16723		2	100.6	1682300	
					17139		3	251.5	4310358	
					18236		4	503	9172670	
					17855		5	1006	17962290	

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	4.33	4.31	4.35	29544	28234	1	50.05	1478677	3
					28490		2	100.1	2851820	
					27854		3	200.2	5576324	
					28212		4	500.5	14120120	
					27069		5	1001	27096230	
	2	4.46	4.44	4.48	34749	33295	1	50.05	1739197	3
					32298		2	100.1	3233009	
					33532		3	200.2	6713137	
					32974		4	500.5	16503720	
					32921		5	1001	32954410	
	3	4.57	4.55	4.59	27188	26788	1	50.05	1360754	1
					26586		2	100.1	2661244	
					26373		3	200.2	5279960	
					27218		4	500.5	13622760	
					26575		5	1001	26601510	
	4	4.92	4.90	4.94	21623	20591	1	50.05	1082249	3
					20745		2	100.1	2076618	
					19976		3	200.2	3999104	
					19960		4	500.5	9989858	
					20653		5	1001	20673490	
	5	5.11	5.09	5.13	46103	46730	1	50.05	2307434	3
					45013		2	100.1	4505800	
					48156		3	200.2	9640877	
					47069		4	500.5	23558250	
					47308		5	1001	47355350	
	6	5.37	5.35	5.39	30488	31260	1	50.05	1525920	3
					32319		2	100.1	3235155	
					32121		3	200.2	6430639	
					29795		4	500.5	14912590	
					31578		5	1001	31609230	
Aroclor-1262	1	4.73	4.71	4.75	32412	32412	1	200.8	6508424	0
	2	4.92	4.90	4.94	32242	32242	1	200.8	6474238	0
	3	5.11	5.09	5.13	61328	61328	1	200.8	12314600	0
	4	5.33	5.31	5.35	25412	25412	1	200.8	5102818	0
	5	5.37	5.35	5.39	40904	40904	1	200.8	8213507	0
	6	5.75	5.73	5.77	22137	22137	1	200.8	4445078	0

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Calibration File: 20PCBS1713701B

GC Column (2) : ZBmultiR2 ID: 30 (mm)

ICAL Date(s) Analyzed: 5/17/2017 5/17/2017

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	5.33	5.31	5.35	82763	82763	1	201	16635460	0
	2	5.37	5.35	5.39	83795	83795	1	201	16842710	0
	3	5.53	5.51	5.55	71989	71989	1	201	14469800	0
	4	5.59	5.57	5.61	17405	17405	1	201	3498455	0
	5	5.75	5.73	5.77	28206	28206	1	201	5669354	0
	6	5.95	5.93	5.97	214367	214367	1	201	43087670	0

File Name: V:\CP20\20pcbs1713701b.CAL
Version: 7

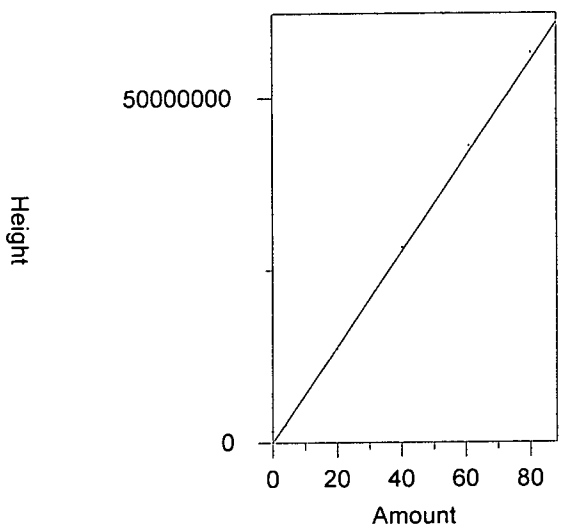
Creator:
Description:
Reason for change:

External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 50
Amount units: PPB
No default component

Method of calculating data point averages: Current update equal to cal data
Print calibration update report

All levels are normal data points.

1 TCX



Expected retention time: 2.616 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0.1
Low alarm limit: 0
Component constant: 0

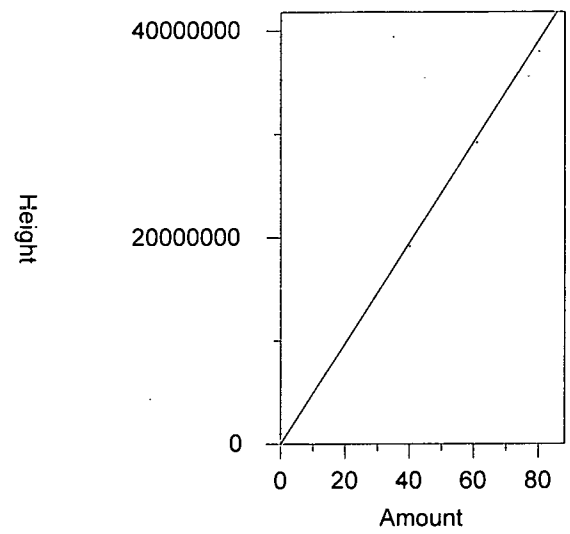
Single peak quantification by height

Y = 691308.8 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9985253
Average error: 2.688%
Average CF: 691308.8
RSD: 3.220%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	2640776	658547.6	-4.739	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.00
2	20.04	1.357936E+07	677612.8	-1.981	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.00
3	40.08	2.834864E+07	707301.4	2.313	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.00
4	60.92	4.309731E+07	707441.1	2.334	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.01
5	80.16	5.65642E+07	705641.2	2.073	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001B.01

2 DCB



Expected retention time:	6.108 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0.2
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 487178.5 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9980877
Average error:	2.557%
Average CF:	487178.5
RSD:	3.294%

Level	Amount	Response	Cal Factor	Error, %	Source
1	4.01	2056760	512907.7	5.281	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
2	20.04	9871559	492592.8	1.111	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
3	40.08	1.915147E+07	477831.1	-1.919	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
4	60.92	2.917417E+07	478893.2	-1.701	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700
5	80.16	3.796923E+07	473668	-2.773	\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs1713700

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/17/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 21:52

Lab File ID: 20PCBS17137001.029.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: IC16XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	40.05	40.08	0
Decachlorobiphenyl	6.62	6.58	6.64	36.85	40.08	-8
Aroclor-1016	3.18	3.16	3.20	203.20	201.00	1
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	191.43	201.80	-5
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 4

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/17/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 21:52

Lab File ID: 20PCBS17137001B.029.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: IC16XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	41.22	40.08	3
Decachlorobiphenyl	6.11	6.08	6.14	36.08	40.08	-10
Aroclor-1016	2.90	2.88	2.92	200.28	201.00	0
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.66	3.63	3.67			
	3.75	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	196.86	201.80	-2
	4.47	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 4

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/17/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 22:03

Lab File ID: 20PCBS17137001.030.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: IC48XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	41.10	40.08	3
Decachlorobiphenyl	6.61	6.58	6.64	37.77	40.08	-6
Aroclor-1248	3.79	3.76	3.80	203.00	200.00	1
	3.86	3.83	3.87			
	3.98	3.96	4.00			
	4.07	4.05	4.09			
	4.25	4.23	4.27			
	4.64	4.61	4.65			

Compounds 8 Average of %D: 3

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/17/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 22:03

Lab File ID: 20PCBS17137001B.030.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: IC48XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	41.77	40.08	4
Decachlorobiphenyl	6.11	6.08	6.14	37.97	40.08	-5
Aroclor-1248	3.42	3.40	3.44	206.77	200.00	3
	3.53	3.51	3.55			
	3.66	3.63	3.67			
	3.75	3.72	3.76			
	3.88	3.86	3.90			
	4.24	4.22	4.26			

Compounds 8 Average of %D: 4

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/17/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 22:15

Lab File ID: 20PCBS17137001.031.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: IC54XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	20.11	20.00	1
Decachlorobiphenyl	6.61	6.58	6.64	18.42	20.12	-8
Aroclor-1254	4.23	4.21	4.25	237.50	250.00	-5
	4.57	4.55	4.59			
	4.64	4.61	4.65			
	4.76	4.73	4.77			
	4.85	4.83	4.87			
	5.17	5.14	5.18			

Compounds 8 Average of %D: 5

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/17/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 22:15

Lab File ID: 20PCBS17137001B.031.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: IC54XAA Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	2.62	2.59	2.65	20.63	20.00	3
Decachlorobiphenyl	6.11	6.08	6.14	18.24	20.12	-9
Aroclor-1254	4.18	4.16	4.20	239.96	250.00	-4
	4.24	4.22	4.26			
	4.33	4.31	4.35			
	4.40	4.38	4.42			
	4.47	4.44	4.48			
	4.62	4.60	4.64			

Compounds 8 Average of %D: 5

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/26/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 16:31

Lab File ID: 20PCBS17137009.011.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163FS Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	43.72	40.08	9
Decachlorobiphenyl	6.61	6.58	6.64	38.46	40.08	-4
Aroclor-1016	3.18	3.16	3.20	208.21	200.04	4
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	195.51	200.20	-2
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 5

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/26/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 16:31

Lab File ID: 20PCBS17137009B.011.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163FS Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.61	2.59	2.65	44.72	40.08	12
Decachlorobiphenyl	6.11	6.08	6.14	39.14	40.08	-2
Aroclor-1016	2.90	2.88	2.92	210.74	200.04	5
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	206.15	200.20	3
	4.46	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 6

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAH Sample ID: AH **Batchnumber: 1714599999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : May 26, 2017 16:42:35
Instrument : CP20--17342A
Result file : 20PCBS17137009.012.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 110% (53-140) Conc.: 0.220527
%SSR(DCB) : 101% (45-143) Conc.: 0.202251

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	86.74	
3.16	3.19	3.20	3194.433	0.015568			1
3.49	3.49	3.53	1073.344	0.00455			3
3.71	3.73	3.75	854.1357	0.003268			4
Height Summation:			**5121.9127**				
Amount Avg CF:			**0.007796**	Linear:			
Aroclor-1221					3	160.18	
3.06	3.07	3.10	969.2056	0.00986			1
3.11	3.12	3.15	34611.2	0.407313			2
3.16	3.19	3.20	3194.433	0.011637			3
Height Summation:			**38774.8386**				
Amount Avg CF:			**0.142937**	Linear:			
Aroclor-1232					3	32.99	
3.16	3.19	3.20	3194.433	0.012973			1
+ 3.49	3.49	3.53	1073.344	0.009873			3
3.49	3.53	3.53	1573.067	0.014469			3
3.71	3.73	3.75	854.1357	0.007242			4
Height Summation:			**5621.6357**				
Amount Avg CF:			**0.011561**	Linear:			
Aroclor-1242					3	71.66	
3.16	3.19	3.20	3194.433	0.018173			1
+ 3.49	3.49	3.53	1073.344	0.005647			3
3.49	3.53	3.53	1573.067	0.008276			3
3.71	3.73	3.75	854.1357	0.003995			4
Height Summation:			**5621.6357**				
Amount Avg CF:			**0.010148**	Linear:			
Aroclor-1248					1		
3.83	3.85	3.87	1864.55	0.008834			2
Height Summation:			**1864.55**				
Amount Avg CF:			**0.008834**	Linear:			
Aroclor-1260					1		
5.82	5.84	5.86	1369.737	0.003251			6
Height Summation:			**1369.737**				
Amount Avg CF:			**0.003251**	Linear:			
Aroclor-1262					1		
5.81	5.84	5.85	1369.737	0.002543			4
Height Summation:			**1369.737**				
Amount Avg CF:			**0.002543**	Linear:			
Aroclor-1268					4	145.21	
5.81	5.84	5.85	1369.737	0.001143			1
6.00	6.02	6.04	20198.13	0.020725			3
6.07	6.09	6.11	21751.08	0.097349			4
6.45	6.47	6.49	15222.88	0.004832			6
Height Summation:			**58541.827**				
Amount Avg CF:			**0.031012**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 16:42:35
Instrument : CP20--17342B
Result file : 20PCBS17137009B.012.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 110% (53-140) Conc.: 0.220289
%SSR(DCB) : 102% (45-143) Conc.: 0.205849

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	57.72	
2.88	2.89	2.92	5749.499	0.005085			1
3.21	3.23	3.25	3175.857	0.00226			2
3.40	3.41	3.44	10958.53	0.007761			3
3.47	3.47	3.51	4341.132	0.0026			4
Height Summation:			**24225.018**				
Amount Avg CF:			**0.004426**	Linear:			
Aroclor-1221					3	164.81	
2.77	2.78	2.81	8794.466	0.014737			1
+ 2.77	2.80	2.81	5449.376	0.009132			1
2.83	2.83	2.87	203168.8	0.552291			2
2.88	2.89	2.92	5749.499	0.003768			3
Height Summation:			**217712.765**				
Amount Avg CF:			**0.190265**	Linear:			
Aroclor-1232					4	81.25	
2.88	2.89	2.92	5749.499	0.004162			1
3.21	3.23	3.25	3175.857	0.004757			2
3.40	3.41	3.44	10958.53	0.018346			3
3.47	3.47	3.51	4341.132	0.005915			4
Height Summation:			**24225.018**				
Amount Avg CF:			**0.008295**	Linear:			
Aroclor-1242					4	57.93	
2.88	2.89	2.92	5749.499	0.005914			1
3.21	3.23	3.25	3175.857	0.002735			2
3.40	3.41	3.44	10958.53	0.009597			3
3.47	3.47	3.51	4341.132	0.003326			4
Height Summation:			**24225.018**				
Amount Avg CF:			**0.005393**	Linear:			
Aroclor-1248					4	130.12	
3.40	3.41	3.44	10958.53	0.019678			1
3.51	3.54	3.55	3024.63	0.001926			2
3.86	3.86	3.90	3420.159	0.001274			5
4.22	4.23	4.26	4672.353	0.003938			6
Height Summation:			**22075.672**				
Amount Avg CF:			**0.006704**	Linear:			
Aroclor-1254					4	45.34	
4.16	4.19	4.19	6999.959	0.003348			1
4.22	4.23	4.26	4672.353	0.00126			2
4.31	4.33	4.35	3028.532	0.001755			3
4.60	4.62	4.64	2987.636	0.001708			6
Height Summation:			**17688.48**				
Amount Avg CF:			**0.002018**	Linear:			
Aroclor-1260					3	11.41	
4.31	4.33	4.35	3028.532	0.001073			1
4.55	4.56	4.59	3139.423	0.001172			3
4.90	4.92	4.94	2763.999	0.001342			4
Height Summation:			**8931.954**				
Amount Avg CF:			**0.001196**	Linear:			
Aroclor-1262					2	60.28	
4.90	4.92	4.94	2763.999	0.000857			2
5.31	5.34	5.35	5415.142	0.002131			4
Height Summation:			**8179.141**				
Amount Avg CF:			**0.001494**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAH Sample ID: AH **Batchnumber: 1714599999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : May 26, 2017 16:42:35
Instrument : CP20--17342A
Result file : 20PCBS17137009.012.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 26, 2017 16:42:35
Instrument : CP20--17342B
Result file : 20PCBS17137009B.012.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**144.92**	
5.31	5.34	5.35	5415.142	0.000654			1
5.51	5.53	5.55	148459.1	0.020622			3
5.57	5.59	5.61	163232.5	0.093783			4
5.93	5.95	5.97	102141.8	0.004765			6

Height Summation: **419248.542**
Amount Avg CF: **0.029956** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						** 55.13	4	40	
Aroclor-1221						28.41	3	5	
Aroclor-1232						32.90	4	10	
Aroclor-1242						** 61.19	4	30	
Aroclor-1248						27.42	4	40	
Aroclor-1254							4	40	
Aroclor-1260						** 92.45	4	40	
Aroclor-1262						** 51.95	4	40	
Aroclor-1268						3.46	4	40	

Units: ug/kg

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/26/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 20:43

Lab File ID: 20PCBS17137009.033.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163FT Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	45.25	40.08	13
Decachlorobiphenyl	6.61	6.58	6.64	37.49	40.08	-6
Aroclor-1016	3.18	3.16	3.20	211.20	200.04	6
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.76	4.73	4.77	200.15	200.20	0
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 6

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/26/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 20:43

Lab File ID: 20PCBS17137009B.033.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163FT Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.61	2.59	2.65	44.53	40.08	11
Decachlorobiphenyl	6.11	6.08	6.14	40.07	40.08	0
Aroclor-1016	2.90	2.88	2.92	210.83	200.04	5
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	203.38	200.20	2
	4.46	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 5

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **IBLKX17** 24A PIBLKAI Sample ID: AI **Batchnumber: 1714599999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : May 26, 2017 20:55:02
Instrument : CP20--17342A
Result file : 20PCBS17137009.034.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 116% (53-140) Conc.: 0.232221
%SSR(DCB) : 100% (45-143) Conc.: 0.200675

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	74.66	
3.16	3.19	3.20	3693.854	0.018002			1
3.37	3.40	3.41	753.1685	0.003595			2
+ 3.49	3.49	3.53	625.8239	0.002653			3
3.49	3.53	3.53	1897.588	0.008045			3
Height Summation:			**6344.6105**				
Amount Avg CF:				**0.009881** Linear:			
Aroclor-1221					2	132.87	
3.11	3.12	3.15	36679.66	0.431655			2
3.16	3.19	3.20	3693.854	0.013456			3
Height Summation:			**40373.514**				
Amount Avg CF:				**0.222555** Linear:			
Aroclor-1232					3	38.41	
3.16	3.19	3.20	3693.854	0.015001			1
3.38	3.40	3.42	753.1685	0.007601			2
+ 3.49	3.49	3.53	625.8239	0.005756			3
3.49	3.53	3.53	1897.588	0.017454			3
Height Summation:			**6344.6105**				
Amount Avg CF:				**0.013352** Linear:			
Aroclor-1242					3	72.00	
3.16	3.19	3.20	3693.854	0.021014			1
3.38	3.40	3.42	753.1685	0.004339			2
+ 3.49	3.49	3.53	625.8239	0.003293			3
3.49	3.53	3.53	1897.588	0.009984			3
Height Summation:			**6344.6105**				
Amount Avg CF:				**0.011779** Linear:			
Aroclor-1248					2	14.68	
3.83	3.85	3.87	1699.752	0.008053			2
4.23	4.26	4.27	2428.051	0.009919			5
Height Summation:			**4127.803**				
Amount Avg CF:				**0.008986** Linear:			
Aroclor-1254					2	23.71	
4.55	4.57	4.59	1061.858	0.003661			2
4.73	4.76	4.77	903.0007	0.005136			4
Height Summation:			**1964.8587**				
Amount Avg CF:				**0.004398** Linear:			
Aroclor-1260					4	43.51	
4.73	4.76	4.77	903.0007	0.002155			1
5.03	5.04	5.07	1600.963	0.006914			2
5.20	5.21	5.24	1528.442	0.005637			3
5.82	5.84	5.86	1738.318	0.004126			6
Height Summation:			**5770.7237**				
Amount Avg CF:				**0.004708** Linear:			
Aroclor-1262					2	3.72	
5.21	5.21	5.24	1528.442	0.003062			1
5.81	5.84	5.85	1738.318	0.003227			4
Height Summation:			**3266.76**				
Amount Avg CF:				**0.003144** Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:55:02
Instrument : CP20--17342B
Result file : 20PCBS17137009B.034.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 119% (53-140) Conc.: 0.237573
%SSR(DCB) : 100% (45-143) Conc.: 0.200627

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	44.49	
2.88	2.88	2.92	7080.264	0.006261			1
3.40	3.41	3.44	16957.83	0.01201			3
Height Summation:			**24038.094**				
Amount Avg CF:				**0.009136** Linear:			
Aroclor-1221					3	163.53	
2.77	2.78	2.81	11026.94	0.018478			1
+ 2.77	2.80	2.81	5126.843	0.008591			1
2.83	2.83	2.87	219096.7	0.595589			2
2.88	2.88	2.92	7080.264	0.00464			3
Height Summation:			**237203.904**				
Amount Avg CF:				**0.206236** Linear:			
Aroclor-1232					2	98.17	
2.88	2.88	2.92	7080.264	0.005125			1
3.40	3.41	3.44	16957.83	0.028389			3
Height Summation:			**24038.094**				
Amount Avg CF:				**0.016757** Linear:			
Aroclor-1242					2	48.36	
2.88	2.88	2.92	7080.264	0.007282			1
3.40	3.41	3.44	16957.83	0.014851			3
Height Summation:			**24038.094**				
Amount Avg CF:				**0.011067** Linear:			
Aroclor-1248					3	120.21	
3.40	3.41	3.44	16957.83	0.030451			1
+ 3.86	3.86	3.90	1961.057	0.000731			5
3.86	3.88	3.90	2831.271	0.001055			5
4.22	4.23	4.26	8535.382	0.007193			6
Height Summation:			**28324.483**				
Amount Avg CF:				**0.0129** Linear:			
Aroclor-1254					4	28.73	
4.22	4.23	4.26	8535.382	0.002301			2
4.31	4.33	4.35	3724.926	0.002159			3
4.38	4.40	4.42	3843.985	0.001542			4
4.60	4.62	4.64	5484.687	0.003135			6
Height Summation:			**21588.98**				
Amount Avg CF:				**0.002284** Linear:			
Aroclor-1260					4	59.19	
4.31	4.33	4.35	3724.926	0.001319			1
4.55	4.57	4.59	2602.459	0.000971			3
4.90	4.92	4.94	4643.456	0.002255			4
5.09	5.12	5.13	2298.281	0.000492			5
Height Summation:			**13269.122**				
Amount Avg CF:				**0.001259** Linear:			
Aroclor-1262					3	156.10	
4.90	4.92	4.94	4643.456	0.00144			2
5.09	5.12	5.13	2298.281	0.000375			3
5.31	5.34	5.35	65013.18	0.025583			4
Height Summation:			**71954.917**				
Amount Avg CF:				**0.009133** Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAI Sample ID: AI **Batchnumber: 1714599999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : May 26, 2017 20:55:02
Instrument : CP20--17342A
Result file : 20PCBS17137009.034.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**144.66**	
5.81	5.84	5.85	1738.318	0.001451			1
6.00	6.02	6.04	26096.65	0.026777			3
6.07	6.09	6.11	26498.51	0.118596			4
6.45	6.47	6.49	15791.83	0.005013			6

Height Summation: **70125.308**
Amount Avg CF: **0.037959** Linear:

Analysis Report (B)

Injected on : May 26, 2017 20:55:02
Instrument : CP20--17342B
Result file : 20PCBS17137009B.034.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**138.33**	
5.31	5.34	5.35	65013.18	0.007855			1
5.51	5.53	5.55	189623.9	0.026341			3
5.57	5.59	5.61	217792.9	0.125131			4
5.93	5.95	5.97	107058.8	0.004994			6

Height Summation: **579488.78**
Amount Avg CF: **0.04108** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						7.83	4	40	
Aroclor-1221						7.61	3	5	
Aroclor-1232						22.62	4	10	
Aroclor-1242						6.24	4	30	
Aroclor-1248						35.76	4	40	
Aroclor-1254						** 63.28	4	40	
Aroclor-1260						** 115.58	4	40	
Aroclor-1262						** 97.56	4	40	
Aroclor-1268						7.90	4	40	

Units: ug/kg

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/27/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 0:44

Lab File ID: 20PCBS17137009.054.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163FU Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	42.07	40.08	5
Decachlorobiphenyl	6.61	6.58	6.64	44.49	40.08	11
Aroclor-1016	3.18	3.16	3.20	205.60	200.04	3
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.75	4.73	4.77	206.35	200.20	3
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 6

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/27/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 0:44

Lab File ID: 20PCBS17137009B.054.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163FU Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.61	2.59	2.65	43.49	40.08	9
Decachlorobiphenyl	6.11	6.08	6.14	44.56	40.08	11
Aroclor-1016	2.90	2.88	2.92	209.62	200.04	5
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	211.03	200.20	5
	4.46	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 8

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **IBLKX17** 24A PIBLKAJ Sample ID: AJ **Batchnumber: 1714599999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 27, 2017 00:55:51
Instrument : CP20--17342A
Result file : 20PCBS17137009.055.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	60.80	
3.16	3.19	3.20	3043.221	0.014831			1
3.37	3.40	3.41	977.1093	0.004664			2
+ 3.49	3.51	3.53	694.0401	0.002942			3
3.49	3.53	3.53	1623.616	0.006883			3
Height Summation:			**5643.9463**				
Amount Avg CF:				**0.008793** Linear:			
Aroclor-1221					2	133.88	
3.11	3.12	3.15	34369.8	0.404472			2
3.16	3.19	3.20	3043.221	0.011086			3
Height Summation:			**37413.021**				
Amount Avg CF:				**0.207779** Linear:			
Aroclor-1232					4	16.86	
3.16	3.19	3.20	3043.221	0.012359			1
3.38	3.40	3.42	977.1093	0.009861			2
+ 3.49	3.51	3.53	694.0401	0.006384			3
3.49	3.53	3.53	1623.616	0.014934			3
3.71	3.75	3.75	1578.009	0.01338			4
Height Summation:			**7221.9553**				
Amount Avg CF:				**0.012633** Linear:			
Aroclor-1242					4	53.56	
3.16	3.19	3.20	3043.221	0.017313			1
3.38	3.40	3.42	977.1093	0.005629			2
+ 3.49	3.51	3.53	694.0401	0.003652			3
3.49	3.53	3.53	1623.616	0.008542			3
3.71	3.75	3.75	1578.009	0.00738			4
Height Summation:			**7221.9553**				
Amount Avg CF:				**0.009716** Linear:			
Aroclor-1248					3	28.33	
3.83	3.85	3.87	2202.972	0.010438			2
4.05	4.05	4.09	1502.301	0.00727			4
4.23	4.26	4.27	1490.97	0.006091			5
Height Summation:			**5196.243**				
Amount Avg CF:				**0.007933** Linear:			
Aroclor-1254					2	50.82	
4.55	4.57	4.59	1737.209	0.00599			2
4.73	4.74	4.77	496.312	0.002823			4
Height Summation:			**2233.521**				
Amount Avg CF:				**0.004406** Linear:			
Aroclor-1260					3	54.55	
4.73	4.74	4.77	496.312	0.001184			1
5.37	5.40	5.41	617.3085	0.001995			4
5.82	5.84	5.86	1520.604	0.003609			6
Height Summation:			**2634.2245**				
Amount Avg CF:				**0.002263** Linear:			
Aroclor-1262					2	41.97	
5.37	5.40	5.41	617.3085	0.001531			2
5.81	5.84	5.85	1520.604	0.002823			4
Height Summation:			**2137.9125**				
Amount Avg CF:				**0.002177** Linear:			

Analysis Report (B)

Injected on : May 27, 2017 00:55:51
Instrument : CP20--17342B
Result file : 20PCBS17137009B.055.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	107.22	
2.88	2.88	2.92	6689.469	0.005916			1
3.21	3.23	3.25	3176.966	0.002261			2
3.40	3.41	3.44	22923.84	0.016235			3
3.63	3.65	3.67	1667.391	0.001188			5
Height Summation:			**34457.666**				
Amount Avg CF:				**0.0064** Linear:			
Aroclor-1221					3	165.92	
2.77	2.78	2.81	6688.478	0.011208			1
+ 2.77	2.80	2.81	3598.31	0.00603			1
2.83	2.83	2.87	198548.5	0.539731			2
2.88	2.88	2.92	6689.469	0.004384			3
Height Summation:			**211926.447**				
Amount Avg CF:				**0.185108** Linear:			
Aroclor-1232					3	121.22	
2.88	2.88	2.92	6689.469	0.004842			1
3.21	3.23	3.25	3176.966	0.004758			2
3.40	3.41	3.44	22923.84	0.038377			3
Height Summation:			**32790.275**				
Amount Avg CF:				**0.015992** Linear:			
Aroclor-1242					4	108.69	
2.88	2.88	2.92	6689.469	0.00688			1
3.21	3.23	3.25	3176.966	0.002736			2
3.40	3.41	3.44	22923.84	0.020076			3
3.64	3.65	3.68	1667.391	0.001552			5
Height Summation:			**34457.666**				
Amount Avg CF:				**0.007811** Linear:			
Aroclor-1248					5	140.92	
3.40	3.41	3.44	22923.84	0.041164			1
3.51	3.54	3.55	14188.07	0.009033			2
3.63	3.65	3.67	1667.391	0.00085			3
3.86	3.88	3.90	4302.315	0.001603			5
4.22	4.23	4.26	7965.001	0.006712			6
Height Summation:			**51046.617**				
Amount Avg CF:				**0.011872** Linear:			
Aroclor-1254					3	45.15	
4.22	4.23	4.26	7965.001	0.002147			2
4.31	4.33	4.35	4329.992	0.002509			3
4.60	4.62	4.64	8333.751	0.004764			6
Height Summation:			**20628.744**				
Amount Avg CF:				**0.00314** Linear:			
Aroclor-1260					3	25.42	
4.31	4.33	4.35	4329.992	0.001534			1
4.55	4.57	4.59	6753.127	0.002521			3
4.90	4.91	4.94	5049.667	0.002452			4
Height Summation:			**16132.786**				
Amount Avg CF:				**0.002169** Linear:			
Aroclor-1262					3	105.42	
4.71	4.74	4.75	4043.014	0.001247			1
4.90	4.91	4.94	5049.667	0.001566			2
5.31	5.34	5.35	20215.15	0.007955			4
Height Summation:			**29307.831**				
Amount Avg CF:				**0.003589** Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAJ Sample ID: AJ **Batchnumber: 1714599999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 27, 2017 00:55:51
Instrument : CP20--17342A
Result file : 20PCBS17137009.055.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**146.54**	
5.81	5.84	5.85	1520.604	0.001269			1
6.00	6.02	6.04	27850.43	0.028577			3
6.07	6.09	6.11	30003	0.134281			4
6.45	6.46	6.49	18835.44	0.005979			6

Height Summation: **78209.474**
Amount Avg CF: **0.042526** Linear:

Analysis Report (B)

Injected on : May 27, 2017 00:55:51
Instrument : CP20--17342B
Result file : 20PCBS17137009B.055.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**146.34**	
5.31	5.34	5.35	20215.15	0.002443			1
5.51	5.52	5.55	205143.2	0.028496			3
5.57	5.59	5.61	240452.9	0.13815			4
5.93	5.95	5.97	125201.6	0.005841			6

Height Summation: **591012.85**
Amount Avg CF: **0.043732** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						31.50	4	40	
Aroclor-1221						11.54	3	5	
Aroclor-1232						23.47	4	10	
Aroclor-1242						21.74	4	30	
Aroclor-1248						39.78	4	40	
Aroclor-1254						33.56	4	40	
Aroclor-1260						4.24	4	40	
Aroclor-1262						** 49.00	4	40	
Aroclor-1268						2.80	4	40	

Units: ug/kg

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/28/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 18:22

Lab File ID: 20PCBS17137010.005.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163FV Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	43.48	40.08	8
Decachlorobiphenyl	6.61	6.58	6.64	40.15	40.08	0
Aroclor-1016	3.18	3.16	3.20	203.05	200.04	2
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.75	4.73	4.77	193.87	200.20	-3
	5.05	5.03	5.07			
	5.23	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 3

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/28/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 18:22

Lab File ID: 20PCBS17137010B.005.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163FV Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.61	2.59	2.65	43.60	40.08	9
Decachlorobiphenyl	6.11	6.08	6.14	42.32	40.08	6
Aroclor-1016	2.90	2.88	2.92	199.61	200.04	0
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	205.04	200.20	2
	4.46	4.44	4.48			
	4.57	4.55	4.59			
	4.92	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 4

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAK Sample ID: AK **Batchnumber: 1714799999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 28, 2017 18:34:04
Instrument : CP20--17342A
Result file : 20PCBS17137010.006.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	44.79	
3.16	3.19	3.20	5833.16	0.028428			1
+ 3.49	3.49	3.53	1881.273	0.007975			3
3.49	3.53	3.53	3479.813	0.014752			3
Height Summation:			**9312.973**				
Amount Avg CF:			**0.02159**	Linear:			
Aroclor-1221					3	156.15	
3.06	3.07	3.10	651.5903	0.006629			1
3.11	3.12	3.15	33532.48	0.394618			2
3.16	3.19	3.20	5833.16	0.021249			3
Height Summation:			**40017.2303**				
Amount Avg CF:			**0.140832**	Linear:			
Aroclor-1232					3	38.11	
3.16	3.19	3.20	5833.16	0.023689			1
3.49	3.53	3.53	3479.813	0.032007			3
3.71	3.75	3.75	1680.473	0.014249			4
Height Summation:			**10993.446**				
Amount Avg CF:			**0.023315**	Linear:			
Aroclor-1242					2	40.86	
3.16	3.19	3.20	5833.16	0.033184			1
3.49	3.53	3.53	3479.813	0.018308			3
Height Summation:			**9312.973**				
Amount Avg CF:			**0.025746**	Linear:			
Aroclor-1248					2	97.50	
3.83	3.85	3.87	3095.612	0.014667			2
4.05	4.06	4.09	557.0684	0.002696			4
Height Summation:			**3652.6804**				
Amount Avg CF:			**0.008681**	Linear:			
Aroclor-1254					2	4.84	
4.55	4.57	4.59	1230.585	0.004243			2
4.83	4.85	4.87	1533.688	0.003962			5
Height Summation:			**2764.273**				
Amount Avg CF:			**0.004102**	Linear:			
Aroclor-1260					2	29.22	
5.20	5.20	5.24	2751.707	0.010149			3
5.82	5.84	5.86	2811.27	0.006673			6
Height Summation:			**5562.977**				
Amount Avg CF:			**0.008411**	Linear:			
Aroclor-1262					1		
5.81	5.84	5.85	2811.27	0.005219			4
Height Summation:			**2811.27**				
Amount Avg CF:			**0.005219**	Linear:			
Aroclor-1268					4	148.51	
5.81	5.84	5.85	2811.27	0.002347			1
6.00	6.02	6.04	24106.38	0.024735			3
6.07	6.09	6.11	28459.26	0.127372			4
6.45	6.47	6.49	15668.12	0.004974			6
Height Summation:			**71045.03**				
Amount Avg CF:			**0.039857**	Linear:			

Analysis Report (B)

Injected on : May 28, 2017 18:34:04
Instrument : CP20--17342B
Result file : 20PCBS17137010B.006.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	94.62	
2.88	2.88	2.92	6810.688	0.006023			1
3.21	3.22	3.25	3939.309	0.002803			2
3.40	3.41	3.44	27962.04	0.019803			3
Height Summation:			**38712.037**				
Amount Avg CF:			**0.009543**	Linear:			
Aroclor-1221					3	164.32	
2.77	2.78	2.81	8844.503	0.014821			1
+ 2.77	2.80	2.81	5052.482	0.008467			1
2.83	2.83	2.87	199762.3	0.543031			2
2.88	2.88	2.92	6810.688	0.004463			3
Height Summation:			**215417.491**				
Amount Avg CF:			**0.187438**	Linear:			
Aroclor-1232					3	124.42	
2.88	2.88	2.92	6810.688	0.00493			1
3.21	3.22	3.25	3939.309	0.0059			2
3.40	3.41	3.44	27962.04	0.046811			3
Height Summation:			**38712.037**				
Amount Avg CF:			**0.019214**	Linear:			
Aroclor-1242					3	97.02	
2.88	2.88	2.92	6810.688	0.007005			1
3.21	3.22	3.25	3939.309	0.003393			2
3.40	3.41	3.44	27962.04	0.024488			3
Height Summation:			**38712.037**				
Amount Avg CF:			**0.011629**	Linear:			
Aroclor-1248					4	129.43	
3.40	3.41	3.44	27962.04	0.050211			1
3.51	3.54	3.55	10457.19	0.006658			2
3.86	3.88	3.90	2809.848	0.001047			5
4.22	4.24	4.26	13230.39	0.01115			6
Height Summation:			**54459.468**				
Amount Avg CF:			**0.017266**	Linear:			
Aroclor-1254					3	36.44	
4.22	4.24	4.26	13230.39	0.003567			2
4.31	4.33	4.35	2821.827	0.001635			3
4.60	4.62	4.64	5445.732	0.003113			6
Height Summation:			**21497.949**				
Amount Avg CF:			**0.002772**	Linear:			
Aroclor-1260					3	35.02	
4.31	4.33	4.35	2821.827	0.000999			1
+ 4.55	4.55	4.59	946.4487	0.000353			3
4.55	4.58	4.59	5608.614	0.002094			3
4.90	4.91	4.94	3887.45	0.001888			4
Height Summation:			**12317.891**				
Amount Avg CF:			**0.00166**	Linear:			
Aroclor-1262					2	96.84	
4.90	4.91	4.94	3887.45	0.001206			2
5.31	5.34	5.35	16373.41	0.006443			4
Height Summation:			**20260.86**				
Amount Avg CF:			**0.003824**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAK Sample ID: AK **Batchnumber: 1714799999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 28, 2017 18:34:04
Instrument : CP20--17342A
Result file : 20PCBS17137010.006.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 28, 2017 18:34:04
Instrument : CP20--17342B
Result file : 20PCBS17137010B.006.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**4**	**145.81**	
5.31	5.34	5.35	16373.41	0.001978			1
5.51	5.53	5.55	185582.4	0.025779			3
5.57	5.59	5.61	213058.1	0.12241			4
5.93	5.95	5.97	113916.2	0.005314			6

Height Summation: **528930.11**
Amount Avg CF: **0.03887** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						** 77.39	4	40	
Aroclor-1221						28.40	3	5	
Aroclor-1232						19.29	4	10	
Aroclor-1242						** 75.55	4	30	
Aroclor-1248						** 66.17	4	40	
Aroclor-1254						38.72	4	40	
Aroclor-1260						** 134.06	4	40	
Aroclor-1262						30.84	4	40	
Aroclor-1268						2.51	4	40	

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342A Date Analyzed: 05/28/17

GC Column (1) : ZBmultiR1 ID: 30 (mm) Time Analyzed: 22:34

Lab File ID: 20PCBS17137010.027.RAW Initial Calibration: 20PCBS1713701

Lab Standard ID: AR163FW Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.92	2.89	2.95	42.40	40.08	6
Decachlorobiphenyl	6.61	6.58	6.64	37.74	40.08	-6
Aroclor-1016	3.18	3.16	3.20	205.64	200.04	3
	3.40	3.37	3.41			
	3.51	3.49	3.53			
	3.73	3.71	3.75			
	3.79	3.76	3.80			
	3.98	3.96	4.00			
Aroclor-1260	4.75	4.73	4.77	190.46	200.20	-5
	5.05	5.03	5.07			
	5.22	5.20	5.24			
	5.39	5.37	5.41			
	5.63	5.61	5.65			
	5.84	5.82	5.86			

Compounds 14 Average of %D: 5

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument: 17342B Date Analyzed: 05/28/17

GC Column (2) : ZBmultiR2 ID: 30 (mm) Time Analyzed: 22:34

Lab File ID: 20PCBS17137010B.027.RAW Initial Calibration: 20PCBS1713701B

Lab Standard ID: AR163FW Init. Calib Date(s): 05/17/17 05/17/17

Calibration: 20PCBS1713701B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	2.61	2.59	2.65	42.77	40.08	7
Decachlorobiphenyl	6.11	6.08	6.14	38.58	40.08	-4
Aroclor-1016	2.90	2.88	2.92	208.06	200.04	4
	3.23	3.21	3.25			
	3.42	3.40	3.44			
	3.49	3.47	3.51			
	3.65	3.63	3.67			
	3.74	3.72	3.76			
Aroclor-1260	4.33	4.31	4.35	202.82	200.20	1
	4.46	4.44	4.48			
	4.56	4.55	4.59			
	4.91	4.90	4.94			
	5.11	5.09	5.13			
	5.37	5.35	5.39			

Compounds 14 Average of %D: 4

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **IBLKX17** 24A PIBLKAL Sample ID: AL **Batchnumber: 1714799999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 28, 2017 22:46:00
Instrument : CP20--17342A
Result file : 20PCBS17137010.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	51.64	
3.16	3.19	3.20	3088.453	0.015052			1
+ 3.49	3.49	3.53	1099.162	0.00466			3
+ 3.49	3.51	3.53	938.3401	0.003978			3
3.49	3.53	3.53	1651.2	0.007			3
Height Summation:			**4739.653**				
Amount Avg CF:			**0.011026**	Linear:			
Aroclor-1221					2	133.73	
3.11	3.12	3.15	34183.39	0.402278			2
3.16	3.19	3.20	3088.453	0.011251			3
Height Summation:			**37271.843**				
Amount Avg CF:			**0.206764**	Linear:			
Aroclor-1232					3	11.21	
3.16	3.19	3.20	3088.453	0.012542			1
+ 3.49	3.51	3.53	938.3401	0.008631			3
3.49	3.53	3.53	1651.2	0.015188			3
3.71	3.75	3.75	1487.664	0.012614			4
Height Summation:			**6227.317**				
Amount Avg CF:			**0.013448**	Linear:			
Aroclor-1242					3	51.43	
3.16	3.19	3.20	3088.453	0.01757			1
+ 3.49	3.51	3.53	938.3401	0.004937			3
3.49	3.53	3.53	1651.2	0.008687			3
3.71	3.75	3.75	1487.664	0.006958			4
Height Summation:			**6227.317**				
Amount Avg CF:			**0.011072**	Linear:			
Aroclor-1248					2	0.06	
3.83	3.85	3.87	2146.515	0.01017			2
4.23	4.26	4.27	2491.44	0.010178			5
Height Summation:			**4637.955**				
Amount Avg CF:			**0.010174**	Linear:			
Aroclor-1254					1		
4.55	4.57	4.59	1690.706	0.005829			2
Height Summation:			**1690.706**				
Amount Avg CF:			**0.005829**	Linear:			
Aroclor-1260					3	32.10	
5.03	5.06	5.07	926.1749	0.004			2
5.20	5.21	5.24	1904.873	0.007025			3
5.82	5.84	5.86	1845.305	0.00438			6
Height Summation:			**4676.3529**				
Amount Avg CF:			**0.005135**	Linear:			
Aroclor-1262					2	7.62	
5.21	5.21	5.24	1904.873	0.003816			1
5.81	5.84	5.85	1845.305	0.003425			4
Height Summation:			**3750.178**				
Amount Avg CF:			**0.003621**	Linear:			
Aroclor-1268					4	148.91	
5.81	5.84	5.85	1845.305	0.00154			1
6.00	6.02	6.04	27913.44	0.028641			3
6.07	6.09	6.11	31982.02	0.143138			4
6.45	6.46	6.49	18061.59	0.005733			6
Height Summation:			**79802.355**				
Amount Avg CF:			**0.044763**	Linear:			

Analysis Report (B)

Injected on : May 28, 2017 22:46:00
Instrument : CP20--17342B
Result file : 20PCBS17137010B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	94.98	
2.88	2.88	2.92	4998.141	0.00442			1
+ 2.88	2.91	2.92	2837.709	0.00251			1
3.40	3.41	3.44	21182.01	0.015001			3
3.47	3.48	3.51	3119.955	0.001868			4
3.72	3.72	3.76	4447.564	0.0037			6
Height Summation:			**33747.67**				
Amount Avg CF:			**0.006247**	Linear:			
Aroclor-1221					3	165.39	
2.77	2.78	2.81	8052.037	0.013493			1
+ 2.77	2.80	2.81	4571.981	0.007661			1
2.83	2.83	2.87	198390.8	0.539302			2
2.88	2.88	2.92	4998.141	0.003275			3
+ 2.88	2.91	2.92	2837.709	0.00186			3
Height Summation:			**211440.978**				
Amount Avg CF:			**0.185357**	Linear:			
Aroclor-1232					3	126.04	
2.88	2.88	2.92	4998.141	0.003618			1
+ 2.88	2.91	2.92	2837.709	0.002054			1
3.40	3.41	3.44	21182.01	0.035461			3
3.47	3.48	3.51	3119.955	0.004251			4
Height Summation:			**29300.106**				
Amount Avg CF:			**0.014443**	Linear:			
Aroclor-1242					3	99.45	
2.88	2.88	2.92	4998.141	0.005141			1
+ 2.88	2.91	2.92	2837.709	0.002919			1
3.40	3.41	3.44	21182.01	0.018551			3
3.47	3.48	3.51	3119.955	0.002391			4
Height Summation:			**29300.106**				
Amount Avg CF:			**0.008694**	Linear:			
Aroclor-1248					5	138.01	
3.40	3.41	3.44	21182.01	0.038036			1
3.51	3.54	3.55	13220.83	0.008417			2
3.72	3.72	3.76	4447.564	0.003139			4
3.86	3.88	3.90	4409.458	0.001643			5
4.22	4.23	4.26	4900.595	0.00413			6
Height Summation:			**48160.457**				
Amount Avg CF:			**0.011073**	Linear:			
Aroclor-1254					3	49.74	
4.22	4.23	4.26	4900.595	0.001321			2
4.31	4.33	4.35	4993.847	0.002894			3
4.60	4.62	4.64	7089.315	0.004052			6
Height Summation:			**16983.757**				
Amount Avg CF:			**0.002756**	Linear:			
Aroclor-1260					3	34.00	
4.31	4.33	4.35	4993.847	0.001769			1
4.55	4.56	4.59	9392.842	0.003506			3
4.90	4.92	4.94	5046.024	0.002451			4
Height Summation:			**19432.713**				
Amount Avg CF:			**0.002575**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: IBLKX17 24A PIBLKAL Sample ID: AL **Batchnumber: 1714799999**
Sample Amount: 1000 Total Volume: 10 ml Analyst: 2855 SDG: State:

Analysis Report (A)

Injected on : May 28, 2017 22:46:00
Instrument : CP20--17342A
Result file : 20PCBS17137010.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 28, 2017 22:46:00
Instrument : CP20--17342B
Result file : 20PCBS17137010B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					**3**	**87.19**	
4.71	4.74	4.75	6388.937	0.001971			1
4.90	4.92	4.94	5046.024	0.001565			2
5.31	5.34	5.35	18096.33	0.007121			4
Height Summation:			**29531.291**				
Amount Avg CF:				**0.003552** Linear:			
Aroclor-1268					**4**	**148.95**	
5.31	5.34	5.35	18096.33	0.002187			1
5.51	5.52	5.55	203775.6	0.028306			3
5.57	5.59	5.61	251783.3	0.144659			4
5.93	5.95	5.97	120466.2	0.00562			6
Height Summation:			**594121.43**				
Amount Avg CF:				**0.045193** Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016						** 55.33	4	40	
Aroclor-1221						10.92	3	5	
Aroclor-1232						7.14	4	10	
Aroclor-1242						24.06	4	30	
Aroclor-1248						8.46	4	40	
Aroclor-1254						** 71.60	4	40	
Aroclor-1260						** 66.40	4	40	
Aroclor-1262						1.90	4	40	
Aroclor-1268						0.96	4	40	

Eurofins Lancaster Laboratories
Pesticide Residue Analysis
Runlog for 20PCBS17137001
Instrument CP20--17342A

Data Directory Path is - \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2855	20PCBS17137001.001	CONDITIONER		5/17/17 16:32	1713699999	1.00
2855	20PCBS17137001.002	CONDITIONER		5/17/17 16:43	1713699999	1.00
2855	20PCBS17137001.003	CONDITIONER		5/17/17 16:55	1713699999	1.00
2855	20PCBS17137001.004	CONDITIONER		5/17/17 17:06	1713699999	1.00
2855	20PCBS17137001.005	IBLKX1724A	PIBLKAA	5/17/17 17:17	1713699999	10.00
2855	20PCBS17137001.006	EVALX1624B	EVALXAA	5/17/17 17:29	1713699999	1.00
2855	20PCBS17137001.007	AR1611724A	AR161AA	5/17/17 17:40	1713699999	1.00
2855	20PCBS17137001.008	AR1621724A	AR162AA	5/17/17 17:51	1713699999	1.00
2855	20PCBS17137001.009	AR1631724A	AR163AA	5/17/17 18:03	1713699999	1.00
2855	20PCBS17137001.010	AR1641724A	AR164AA	5/17/17 18:14	1713699999	1.00
2855	20PCBS17137001.011	AR1651724A	AR165AA	5/17/17 18:26	1713699999	1.00
2855	20PCBS17137001.012	AR4811724A	AR481AA	5/17/17 18:37	1713699999	1.00
2855	20PCBS17137001.013	AR4821724A	AR482AA	5/17/17 18:49	1713699999	1.00
2855	20PCBS17137001.014	AR4831724A	AR483AA	5/17/17 19:00	1713699999	1.00
2855	20PCBS17137001.015	AR4841724A	AR484AA	5/17/17 19:12	1713699999	1.00
2855	20PCBS17137001.016	AR4851724A	AR485AA	5/17/17 19:23	1713699999	1.00
2855	20PCBS17137001.017	AR5411724A	AR541AA	5/17/17 19:34	1713699999	1.00
2855	20PCBS17137001.018	AR5421724A	AR542AA	5/17/17 19:46	1713699999	1.00
2855	20PCBS17137001.019	AR5431724A	AR543AA	5/17/17 19:57	1713699999	1.00
2855	20PCBS17137001.020	AR5441724A	AR544AA	5/17/17 20:09	1713699999	1.00
2855	20PCBS17137001.021	AR5451724A	AR545AA	5/17/17 20:20	1713699999	1.00
2855	20PCBS17137001.022	AR6231724A	AR623AA	5/17/17 20:31	1713699999	1.00
2855	20PCBS17137001.023	AR6831724A	AR683AA	5/17/17 20:43	1713699999	1.00
2855	20PCBS17137001.024	AR2131724A	AR213AA	5/17/17 20:54	1713699999	1.00
2855	20PCBS17137001.025	AR3231724A	AR323AA	5/17/17 21:06	1713699999	1.00
2855	20PCBS17137001.026	AR4231724A	AR423AA	5/17/17 21:17	1713699999	1.00
2855	20PCBS17137001.027	AR16XX1724A	AR16XAA	5/17/17 21:29	1713699999	1.00
2855	20PCBS17137001.028	MD16X1724A	MD16XAA	5/17/17 21:40	1713699999	1.00
2855	20PCBS17137001.029	IC16X1724A	IC16XAA	5/17/17 21:52	1713699999	1.00
2855	20PCBS17137001.030	IC48X1724A	IC48XAA	5/17/17 22:03	1713699999	1.00
2855	20PCBS17137001.031	IC54X1724A	IC54XAA	5/17/17 22:15	1713699999	1.00
2855	20PCBS17137001.032	BLANKA 5/16/17 RI A	PBLK35135	5/17/17 22:26	171350035A	10.00
2855	20PCBS17137001.033	LOD 5/16/17 RI A		5/17/17 22:38	171350035A	10.00
2855	20PCBS17137001.034	AR1631724A	AR163BR	5/17/17 22:49	1713699999	1.00
2855	20PCBS17137001.035	IBLKX1724A	PIBLKUF	5/17/17 23:01	1713699999	10.00

Eurofins Lancaster Laboratories
Pesticide Residue Analysis
Runlog for 20PCBS17137009
Instrument CP20--17342A

Data Directory Path is - \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2855	20PCBS17137009.001	CONDITIONER		5/26/17 14:36	1714599999	1.00
2855	20PCBS17137009.002	CONDITIONER		5/26/17 14:48	1714599999	1.00
2855	20PCBS17137009.003	CONDITIONER		5/26/17 14:59	1714599999	1.00
2855	20PCBS17137009.004	CONDITIONER		5/26/17 15:11	1714599999	1.00
2855	20PCBS17137009.005	AR1631724A	AR163FR	5/26/17 15:22	1714599999	1.00
2855	20PCBS17137009.006	IBLKX1724A	PIBLKAG	5/26/17 15:33	1714599999	10.00
2855	20PCBS17137009.007	9009627 RI CAF DF5	17973	5/26/17 15:45	171440004A	10.00
2855	20PCBS17137009.008	9009627 RI CAF DF1	17973	5/26/17 15:56	171440004A	20.00
2855	20PCBS17137009.009	BLANKA 5/25/17 ACF	PBLK03145	5/26/17 16:08	171450003A	10.00
2855	20PCBS17137009.010	LCSA 5/25/17 ACF	LCS03145	5/26/17 16:19	171450003A	10.00
2855	20PCBS17137009.011	AR1631724A	AR163FS	5/26/17 16:31	1714599999	1.00
2855	20PCBS17137009.012	IBLKX1724A	PIBLKAH	5/26/17 16:42	1714599999	10.00
2855	20PCBS17137009.013	9008951 RI ACF	D1100	5/26/17 16:54	171450003A	10.00
2855	20PCBS17137009.014	9008952 RI ACF	D1117	5/26/17 17:05	171450003A	10.00
2855	20PCBS17137009.015	9008953 RI ACF	D1150	5/26/17 17:16	171450003A	10.00
2855	20PCBS17137009.016	9008954 RI ACF	D1101	5/26/17 17:28	171450003A	10.00
2855	20PCBS17137009.017	9008967 RI ACF	3S400	5/26/17 17:39	171450003A	10.00
2855	20PCBS17137009.018	9008968MSACF	3S400	5/26/17 17:51	171450003A	10.00
2855	20PCBS17137009.019	9008969MSDACF	3S400	5/26/17 18:02	171450003A	10.00
2855	20PCBS17137009.020	9008971 RI ACF	3S417	5/26/17 18:14	171450003A	10.00
2855	20PCBS17137009.021	9008972 RI ACF	3S41D	5/26/17 18:25	171450003A	10.00
2855	20PCBS17137009.022	9008973 RI ACF	3S450	5/26/17 18:37	171450003A	10.00
2855	20PCBS17137009.023	9008974 RI ACF	3S401	5/26/17 18:48	171450003A	10.00
2855	20PCBS17137009.024	BLANKA 5/25/17 ACF	PBLK31144	5/26/17 19:00	171440031A	10.00
2855	20PCBS17137009.025	LCSA 5/25/17 ACF	LCS31144	5/26/17 19:11	171440031A	10.00
2855	20PCBS17137009.026	9004840ACF DF50	A5501	5/26/17 19:23	171440031A	500.00
2855	20PCBS17137009.027	9004841ACF DF50	A5502	5/26/17 19:34	171440031A	500.00
2855	20PCBS17137009.028	9004842MSACF DF5	A5502	5/26/17 19:46	171440031A	500.00
2855	20PCBS17137009.029	9004843MSDACF DF	A5502	5/26/17 19:57	171440031A	500.00
2855	20PCBS17137009.030	9004844ACF DF50	A5503	5/26/17 20:09	171440031A	500.00
2855	20PCBS17137009.031	9004845ACF DF100	A5504	5/26/17 20:20	171440031A	1,000.00
2855	20PCBS17137009.032	9004846ACF DF100	A5505	5/26/17 20:32	171440031A	1,000.00
2855	20PCBS17137009.033	AR1631724A	AR163FT	5/26/17 20:43	1714599999	1.00
2855	20PCBS17137009.034	IBLKX1724A	PIBLKAI	5/26/17 20:55	1714599999	10.00
2855	20PCBS17137009.035	9004847ACF DF100	A5506	5/26/17 21:06	171440031A	1,000.00
2855	20PCBS17137009.036	9004848ACF DF200	A5507	5/26/17 21:17	171440031A	2,000.00
2855	20PCBS17137009.037	9004849ACF DF200	A5508	5/26/17 21:29	171440031A	2,000.00
2855	20PCBS17137009.038	9004850ACF DF500	A5509	5/26/17 21:40	171440031A	5,000.00
2855	20PCBS17137009.039	9004850ACF DF1000	A5509	5/26/17 21:52	171440031A	10,000.00
2855	20PCBS17137009.040	9004851ACF DF50	A5510	5/26/17 22:03	171440031A	500.00
2855	20PCBS17137009.041	9004852ACF DF50	A5511	5/26/17 22:15	171440031A	500.00
2855	20PCBS17137009.042	9004853ACF DF100	A5512	5/26/17 22:26	171440031A	1,000.00
2855	20PCBS17137009.043	9004854ACF DF100	A5513	5/26/17 22:38	171440031A	1,000.00
2855	20PCBS17137009.044	9004855ACF DF100	A5514	5/26/17 22:49	171440031A	1,000.00
2855	20PCBS17137009.045	9004855ACF DF200	A5514	5/26/17 23:01	171440031A	2,000.00
2855	20PCBS17137009.046	9004856ACF DF200	A5515	5/26/17 23:12	171440031A	2,000.00
2855	20PCBS17137009.047	9004857ACF DF100	A5516	5/26/17 23:24	171440031A	1,000.00
2855	20PCBS17137009.048	9004858ACF DF200	A5517	5/26/17 23:35	171440031A	2,000.00
2855	20PCBS17137009.049	9004859ACF DF50	A5518	5/26/17 23:47	171440031A	500.00
2855	20PCBS17137009.050	9004860ACF DF500	A5601	5/26/17 23:58	171440031A	5,000.00
2855	20PCBS17137009.051	9004860ACF DF1000	A5601	5/27/17 0:10	171440031A	10,000.00
2855	20PCBS17137009.052	9004861ACF DF200	A5602	5/27/17 0:21	171440031A	2,000.00
2855	20PCBS17137009.053	9004861ACF DF500	A5602	5/27/17 0:32	171440031A	5,000.00
2855	20PCBS17137009.054	AR1631724A	AR163FU	5/27/17 0:44	1714599999	1.00
2855	20PCBS17137009.055	IBLKX1724A	PIBLKAJ	5/27/17 0:55	1714599999	10.00

Eurofins Lancaster Laboratories
Pesticide Residue Analysis
Runlog for 20PCBS17137010
Instrument CP20--17342A

Data Directory Path is - \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2855	20PCBS17137010.001	CONDITIONER		5/28/17 17:37	1714799999	1.00
2855	20PCBS17137010.002	CONDITIONER		5/28/17 17:48	1714799999	1.00
2855	20PCBS17137010.003	CONDITIONER		5/28/17 17:59	1714799999	1.00
2855	20PCBS17137010.004	CONDITIONER		5/28/17 18:11	1714799999	1.00
2855	20PCBS17137010.005	AR1631724A	AR163FV	5/28/17 18:22	1714799999	1.00
2855	20PCBS17137010.006	IBLKX1724A	PIBLKAK	5/28/17 18:34	1714799999	10.00
2855	20PCBS17137010.007	9001139ACF DF5	52A11	5/28/17 18:45	171440014A	50.00
2855	20PCBS17137010.008	9001139ACF DF10	52A11	5/28/17 18:57	171440014A	100.00
2855	20PCBS17137010.009	9001140 RI ACF	52A12	5/28/17 19:08	171440014A	10.00
2855	20PCBS17137010.010	9001140ACF DF5	52A12	5/28/17 19:19	171440014A	50.00
2855	20PCBS17137010.011	9001143ACF DF5	52A15	5/28/17 19:31	171440014A	50.00
2855	20PCBS17137010.012	9001143ACF DF10	52A15	5/28/17 19:42	171440014A	100.00
2855	20PCBS17137010.013	9004830ACF DF5	A5410	5/28/17 19:54	171440024A	50.00
2855	20PCBS17137010.014	9004830ACF DF10	A5410	5/28/17 20:05	171440024A	100.00
2855	20PCBS17137010.015	9008953ACF DF5	D1150	5/28/17 20:16	171450003A	50.00
2855	20PCBS17137010.016	9008954ACF DF5	D1101	5/28/17 20:28	171450003A	50.00
2855	20PCBS17137010.017	9004851ACF DF5	A5510	5/28/17 20:39	171440031A	50.00
2855	20PCBS17137010.018	9004851ACF DF10	A5510	5/28/17 20:51	171440031A	100.00
2855	20PCBS17137010.019	9004856ACF DF20	A5515	5/28/17 21:02	171440031A	200.00
2855	20PCBS17137010.020	9004856ACF DF50	A5515	5/28/17 21:14	171440031A	500.00
2855	20PCBS17137010.021	BLANKA 5/26/17 ACF	PBLK27145	5/28/17 21:25	171450027A	10.00
2855	20PCBS17137010.022	LCSA 5/26/17 ACF	LCS27145	5/28/17 21:37	171450027A	10.00
2855	20PCBS17137010.023	9004862 RI ACF	A5603	5/28/17 21:48	171450027A	10.00
2855	20PCBS17137010.024	9004862ACF DF5	A5603	5/28/17 22:00	171450027A	50.00
2855	20PCBS17137010.025	9004863ACF DF20	A5604	5/28/17 22:11	171450027A	200.00
2855	20PCBS17137010.026	9004864ACF DF100	A5605	5/28/17 22:23	171450027A	1,000.00
2855	20PCBS17137010.027	AR1631724A	AR163FW	5/28/17 22:34	1714799999	1.00
2855	20PCBS17137010.028	IBLKX1724A	PIBLKAL	5/28/17 22:46	1714799999	10.00
2855	20PCBS17137010.029	9004864ACF DF200	A5605	5/28/17 22:57	171450027A	2,000.00
2855	20PCBS17137010.030	9004865ACF DF100	A5606	5/28/17 23:08	171450027A	1,000.00
2855	20PCBS17137010.031	9004866ACF DF5	A5607	5/28/17 23:20	171450027A	50.00
2855	20PCBS17137010.032	9004867MSACF DF5	A5607	5/28/17 23:31	171450027A	50.00
2855	20PCBS17137010.033	9004868MSDACF DF	A5607	5/28/17 23:43	171450027A	50.00
2855	20PCBS17137010.034	9004869ACF DF500	A5608	5/28/17 23:54	171450027A	5,000.00
2855	20PCBS17137010.035	9004870ACF DF20	A5609	5/29/17 0:06	171450027A	200.00
2855	20PCBS17137010.036	9004871ACF DF200	A5610	5/29/17 0:17	171450027A	2,000.00
2855	20PCBS17137010.037	9004872ACF DF5	A5611	5/29/17 0:29	171450027A	50.00
2855	20PCBS17137010.038	9004873ACF DF100	A5612	5/29/17 0:40	171450027A	1,000.00
2855	20PCBS17137010.039	9004874ACF DF100	A5613	5/29/17 0:52	171450027A	1,000.00
2855	20PCBS17137010.040	9004875ACF DF20	A5614	5/29/17 1:03	171450027A	200.00
2855	20PCBS17137010.041	9004876ACF DF50	A5615	5/29/17 1:14	171450027A	500.00
2855	20PCBS17137010.042	9004876ACF DF100	A5615	5/29/17 1:26	171450027A	1,000.00
2855	20PCBS17137010.043	9004877ACF DF200	A5616	5/29/17 1:37	171450027A	2,000.00
2855	20PCBS17137010.044	9004878ACF DF10	A5617	5/29/17 1:49	171450027A	100.00
2855	20PCBS17137010.045	9004879ACF DF20	A5618	5/29/17 2:00	171450027A	200.00
2855	20PCBS17137010.046	9004880ACF DF50	A5701	5/29/17 2:12	171450027A	500.00
2855	20PCBS17137010.047	9004881ACF DF5	A5702	5/29/17 2:23	171450027A	50.00
2855	20PCBS17137010.048	9004882ACF DF50	A5703	5/29/17 2:35	171450027A	500.00
2855	20PCBS17137010.049	AR1631724A	AR163FX	5/29/17 2:46	1714799999	1.00
2855	20PCBS17137010.050	IBLKX1724A	PIBLKAM	5/29/17 2:57	1714799999	10.00
2855	20PCBS17137010.051	9004883ACF DF50	A5704	5/29/17 3:09	171450027A	500.00
2855	20PCBS17137010.052	9004883ACF DF100	A5704	5/29/17 3:20	171450027A	1,000.00
2855	20PCBS17137010.053	AR1631724A	AR163FY	5/29/17 3:32	1714799999	1.00
2855	20PCBS17137010.054	IBLKX1724A	PIBLKAN	5/29/17 3:43	1714799999	10.00

Sample Data

Polychlorinated Biphenyls (PCBs)

Lancaster Laboratories Environmental

LOQ/MDL Summary
Pesticide Residue Analysis

SDG: ATE55

Fraction: Polychlorinated Biphenyls (PCBs)

10225: PCBs in Solids by 8082/3550 Analyte Name	Default MDL	Default LOQ	Units
PCB-1016	0.0099	0.051	mg/kg
PCB-1221	0.015	0.051	mg/kg
PCB-1232	0.012	0.051	mg/kg
PCB-1242	0.012	0.051	mg/kg
PCB-1248	0.0099	0.051	mg/kg
PCB-1254	0.013	0.051	mg/kg
PCB-1260	0.012	0.051	mg/kg

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Data Summary

Sample Name: 9004840 ACF DF50 A5501 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.13 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:23:15
Instrument	17342A
Result file	20PCBS17137009.026.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 106% (61 - 152) Conc: 30.66413
%SSR(DCB) 133% (48 - 164) Conc: 38.45478

Analysis Report (B)

Injected on	May 26, 2017 19:23:15
Instrument	17342B
Result file	20PCBS17137009B.026.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 105% (61 - 152) Conc: 30.19033
%SSR(DCB) 125% (48 - 164) Conc: 36.15874

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	70600	30.66413
Decachlorobiphenyl	6.58	6.61	6.64	53614	38.45478

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	422843	30.19033
Decachlorobiphenyl	6.08	6.11	6.14	356895	36.15874

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	30.66413				1.56	
☑ Decachlorobiphenyl	A	38.45478				6.15	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**27.62**	
4.73	4.75	4.77	341182.9	4018.269851			1
5.03	5.05	5.07	306262.5	6528.037979			2
5.20	5.23	5.24	202919.4	3693.926626			3
5.37	5.39	5.41	186732.5	2979.192246			4
5.61	5.63	5.65	654966.4	4310.693774			5
5.82	5.84	5.86	387995.7	4545.715303			6

Height summation: **2080059.4**
Concentration CF: **4345.97263** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**8.09**	
4.31	4.33	4.35	2461375	4302.987179			1
4.44	4.46	4.48	3193116	4733.648447			2
4.55	4.57	4.59	2119878	3905.97814			3
4.90	4.92	4.94	1640597	3932.573933			4
5.09	5.11	5.13	4380948	4627.370154			5
5.35	5.37	5.39	2839840	4483.962519			6

Height summation: **16635754**
Concentration CF: **4331.086729** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<2517.2755	<488.6476			4	
☑ PCB-1221			<2517.2755	<755.1826			3	
☑ PCB-1232			<2517.2755	<607.1076			4	
☑ PCB-1242			<2517.2755	<607.1076			4	
☑ PCB-1248			<2517.2755	<488.6476			4	
☑ PCB-1254			<2517.2755	<651.5301			4	
☑ PCB-1260	A	4345.97263	2517.2755	577.4926		0.34	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: MAY 30 2017
Date:

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004840** ACF DF50 A5501 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.13 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:23:15
Instrument : CP20--17342A
Result file : 20PCBS17137009.026.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 106% (61-152) Conc.: 30.66413
%SSR(DCB) : 133% (48-164) Conc.: 38.45478

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**171.20**	
3.16	3.19	3.20	1961.158	47.176159			1
3.37	3.39	3.41	1745.339	41.116369			2
3.49	3.51	3.53	1623.208	33.965137			3
3.71	3.73	3.75	5287.236	99.856232			4
3.76	3.79	3.80	2474.889	57.146472			5
3.96	3.98	4.00	28710.36	826.788272			6
Height Summation:			**41802.19**				
Amount Avg CF:			**184.34144**	Linear:			
Aroclor-1221					**1**		
3.16	3.19	3.20	1961.158	35.261979			3
Height Summation:			**1961.158**				
Amount Avg CF:			**35.261979**	Linear:			
Aroclor-1232					**6**	**181.42**	
3.16	3.19	3.20	1961.158	39.310598			1
3.38	3.39	3.42	1745.339	86.942786			2
3.49	3.51	3.53	1623.208	73.69261			3
3.71	3.73	3.75	5287.236	221.27345			4
3.77	3.79	3.81	2474.889	132.113678			5
3.96	3.98	4.00	28710.36	1982.629436			6
Height Summation:			**41802.19**				
Amount Avg CF:			**422.660426**	Linear:			
Aroclor-1242					**6**	**172.44**	
3.16	3.19	3.20	1961.158	55.068555			1
3.38	3.39	3.42	1745.339	49.630017			2
3.49	3.51	3.53	1623.208	42.152843			3
3.71	3.73	3.75	5287.236	122.053167			4
3.77	3.79	3.81	2474.889	72.969718			5
3.96	3.98	4.00	28710.36	1035.479968			6
Height Summation:			**41802.19**				
Amount Avg CF:			**229.559045**	Linear:			
Aroclor-1248					**6**	**168.19**	
3.76	3.79	3.80	2474.889	105.255085			1
3.83	3.85	3.87	50280.93	1175.857547			2
3.96	3.98	4.00	28710.36	570.111671			3
4.05	4.07	4.09	17068.42	407.718377			4
4.23	4.25	4.27	40315.06	812.938643			5
4.61	4.63	4.65	310197.3	8532.811782			6
Height Summation:			**449046.959**				
Amount Avg CF:			**1934.115517**	Linear:			
Aroclor-1254					**6**	**73.43**	
4.21	4.23	4.25	119511.5	2043.964559			1
4.55	4.57	4.59	114488.6	1948.372104			2
4.61	4.63	4.65	310197.3	2613.741671			3
4.73	4.75	4.77	341182.9	9577.751832			4
4.83	4.85	4.87	245428.1	3129.336141			5
5.14	5.16	5.18	640581.4	7951.241794			6
Height Summation:			**1771389.8**				
Amount Avg CF:			**4544.068017**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:23:15
Instrument : CP20--17342B
Result file : 20PCBS17137009B.026.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 105% (61-152) Conc.: 30.19033
%SSR(DCB) : 125% (48-164) Conc.: 36.15874

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**119.14**	
2.88	2.91	2.92	22894.48	99.935556			1
3.21	3.23	3.25	14247.96	50.046349			2
3.40	3.40	3.44	15036.57	52.562464			3
+ 3.40	3.42	3.44	8406.316	29.38547			3
+ 3.40	3.43	3.44	9923.579	34.689278			3
3.47	3.49	3.51	25442.67	75.206184			4
3.63	3.65	3.67	220096	774.333765			5
+ 3.72	3.73	3.76	22666.19	93.060552			6
3.72	3.74	3.76	112441.1	461.649305			6
Height Summation:			**410158.78**				
Amount Avg CF:			**252.288937**	Linear:			
Aroclor-1221					**3**	**25.49**	
2.77	2.78	2.81	9548.891	78.980104			1
2.83	2.83	2.87	3528.151	47.338946			2
2.88	2.91	2.92	22894.48	74.050475			3
Height Summation:			**35971.522**				
Amount Avg CF:			**66.789842**	Linear:			
Aroclor-1232					**6**	**114.52**	
2.88	2.91	2.92	22894.48	81.799675			1
3.21	3.23	3.25	14247.96	105.330068			2
3.40	3.40	3.44	15036.57	124.248461			3
+ 3.40	3.42	3.44	8406.316	69.462106			3
+ 3.40	3.43	3.44	9923.579	81.99938			3
3.47	3.49	3.51	25442.67	171.120876			4
+ 3.66	3.67	3.70	35365.9	870.981837			5
3.66	3.70	3.70	48576.87	1196.338039			5
+ 3.73	3.73	3.77	22666.19	212.916852			6
3.73	3.74	3.77	112441.1	1056.225375			6
Height Summation:			**238639.65**				
Amount Avg CF:			**455.843749**	Linear:			
Aroclor-1242					**6**	**122.06**	
2.88	2.91	2.92	22894.48	116.22679			1
3.21	3.23	3.25	14247.96	60.565446			2
3.40	3.40	3.44	15036.57	64.997873			3
+ 3.40	3.42	3.44	8406.316	36.337586			3
+ 3.40	3.43	3.44	9923.579	42.896187			3
3.47	3.49	3.51	25442.67	96.227806			4
3.64	3.65	3.68	220096	1011.037112			5
+ 3.64	3.67	3.68	35365.9	162.457461			5
+ 3.73	3.73	3.77	22666.19	116.240756			6
3.73	3.74	3.77	112441.1	576.640293			6
Height Summation:			**410158.78**				
Amount Avg CF:			**320.94922**	Linear:			
Aroclor-1248					**6**	**145.14**	
3.40	3.40	3.44	15036.57	133.2718			1
+ 3.40	3.42	3.44	8406.316	74.506677			1
+ 3.40	3.43	3.44	9923.579	87.954449			1
3.51	3.53	3.55	365292.7	1147.936913			2
3.63	3.65	3.67	220096	553.604166			3
+ 3.72	3.73	3.76	22666.19	78.956801			4
3.72	3.74	3.76	112441.1	391.684247			4
3.86	3.87	3.90	1175862	2162.552677			5
4.22	4.23	4.26	1924256	8004.137498			6
Height Summation:			**3812984.37**				
Amount Avg CF:			**2065.531217**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004840** ACF DF50 A5501 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.13 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:23:15
Instrument : CP20--17342A
Result file : 20PCBS17137009.026.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	27.62	
4.73	4.75	4.77	341182.9	4018.269851			1
5.03	5.05	5.07	306262.5	6528.037979			2
5.20	5.23	5.24	202919.4	3693.926626			3
+ 5.37	5.37	5.41	15915.33	253.918454			4
5.37	5.39	5.41	186732.5	2979.192246			4
5.61	5.63	5.65	654966.4	4310.693774			5
5.82	5.84	5.86	387995.7	4545.715303			6
Height Summation:			**2080059.4**				
Amount Avg CF:			**4345.97263**	Linear:			
Aroclor-1262					6	27.64	
5.21	5.23	5.24	202919.4	2006.286335			1
+ 5.37	5.37	5.41	15915.33	194.782683			2
5.37	5.39	5.41	186732.5	2285.359929			2
5.61	5.63	5.65	654966.4	3316.507708			3
5.81	5.84	5.85	387995.7	3555.012551			4
5.87	5.88	5.91	99461.89	1839.622975			5
6.25	6.27	6.29	155217.7	2359.774698			6
Height Summation:			**1687293.59**				
Amount Avg CF:			**2560.427366**	Linear:			
Aroclor-1268					6	113.99	
5.81	5.84	5.85	387995.7	1598.710372			1
5.87	5.88	5.91	99461.89	469.706923			2
6.00	6.02	6.04	6140.65	31.099498			3
6.07	6.08	6.11	12067.43	266.578108			4
6.25	6.27	6.29	155217.7	1903.173943			5
6.45	6.46	6.49	31203.49	48.889484			6
Height Summation:			**692086.86**				
Amount Avg CF:			**719.693055**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:23:15
Instrument : CP20--17342B
Result file : 20PCBS17137009B.026.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	70.67	
4.16	4.17	4.19	917850	2167.041967			1
4.22	4.23	4.26	1924256	2560.464525			2
4.31	4.33	4.35	2461375	7040.541904			3
4.38	4.40	4.42	1518724	3006.174098			4
4.44	4.46	4.48	3193116	10975.558964			5
4.60	4.62	4.64	1273587	3593.3331			6
Height Summation:			**11288908**				
Amount Avg CF:			**4890.519093**	Linear:			
Aroclor-1260					6	8.09	
4.31	4.33	4.35	2461375	4302.987179			1
4.44	4.46	4.48	3193116	4733.648447			2
4.55	4.57	4.59	2119878	3905.97814			3
4.90	4.92	4.94	1640597	3932.573933			4
5.09	5.11	5.13	4380948	4627.370154			5
5.35	5.37	5.39	2839840	4483.962519			6
Height Summation:			**16635754**				
Amount Avg CF:			**4331.086729**	Linear:			
Aroclor-1262					6	33.78	
4.71	4.73	4.75	1160510	1767.247259			1
4.90	4.92	4.94	1640597	2511.525084			2
5.09	5.11	5.13	4380948	3525.916766			3
5.31	5.33	5.35	732847.4	1423.402552			4
5.35	5.37	5.39	2839840	3426.805915			5
5.73	5.75	5.77	1092880	2436.785825			6
Height Summation:			**11847622.4**				
Amount Avg CF:			**2515.280567**	Linear:			
Aroclor-1268					6	124.70	
5.31	5.33	5.35	732847.4	437.054256			1
5.35	5.37	5.39	2839840	1672.778806			2
5.51	5.52	5.55	48849.52	33.493026			3
5.57	5.59	5.61	22780.66	64.602099			4
5.73	5.75	5.77	1092880	1912.47391			5
5.93	5.95	5.97	216866.7	49.934014			6
Height Summation:			**4954064.28**				
Amount Avg CF:			**695.056018**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2517.2755	488.6476		31.12	4	40	
Aroclor-1221			2517.2755	755.1826		** 61.79	3	5	
Aroclor-1232			2517.2755	607.1076		7.55	4	10	
Aroclor-1242			2517.2755	607.1076		33.20	4	30	
Aroclor-1248			2517.2755	488.6476		6.57	4	40	
Aroclor-1254			2517.2755	651.5301		7.34	4	40	
Aroclor-1260			2517.2755	577.4926		0.34	4	40	
Aroclor-1262			2517.2755	488.6476		1.78	4	40	
Aroclor-1268			2517.2755	488.6476		3.48	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004840ACF DF50 ACA5501 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:23:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.026.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		3424	3435
2.098		2054	3037
2.131		1407	1845
2.197		17192	13079
2.309		1795	1634
2.379		2699	3410
2.426		1261	1366
2.494		965	791
2.569		1708	1240
2.647		6757	6053
2.923	TCX	70600	48552
3.037		1776	1197
3.192		1961	1957
3.229		12939	6783
3.394		1745	1091
3.511		1623	1609
3.585		2081	1659
3.692		4822	7526
3.732		5287	4824
3.786		2475	2139
3.854		50281	35769
3.88		14613	10691
3.902		7559	4160
3.977		28710	20557
4.002		3250	1949
4.032		5148	3633
4.067		17068	15975
4.108		4186	3240
4.138		1155	740
4.189		5972	4997
4.225		119512	89892
4.246		40315	23474
4.27		52062	39021
4.295		2180	1445
4.337		41525	34580
4.379		211376	220319
4.414		93613	73456
4.454		5461	3818
4.477		12301	8953
4.519		78088	72495
4.571		114489	116245
4.603		33770	19935
4.633		310197	271517
4.678		114606	133759
4.717		58645	43613
4.754		341183	310671
4.806		25033	22163
4.847		245428	237392
4.875		4566	2505
4.902		74238	66185
4.927		2155	876
4.955		451337	581906
5.005		59302	53551
5.047		306263	316015

RT A	Compound A	Height A	Area A
5.09		22294	15491
5.127		48115	63011
5.164		640581	695620
5.226		202919	183124
5.269		149592	150104
5.374		15915	16201
5.39		186733	151123
5.449		130380	122234
5.488		81280	73133
5.528		13641	12907
5.573		117682	108792
5.601		9011	5204
5.63		654966	634934
5.665		6351	4311
5.722		1253	1576
5.754		843	450
5.837		387996	392044
5.877		99462	194310
6.02		6141	8966
6.084		12067	8830
6.108		61367	57022
6.266		155218	154774
6.31		10816	10145
6.465		31203	33798
6.611	DCB	53614	58651
6.776		632	921
7.172		717	2453
7.27		577	415
7.365		965	1291
7.518		714	1384
8.03		1522	1644
8.397		667	1595
8.615		775	424

LANCASTER LABORATORIES

Sample Number: 9004840ACF DF50 ACA5501 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:23:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.026.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.156		16076	23319
2.237		15719	26313
2.309		3357	3405
2.364		45772	34020
2.457		2103	2015
2.473		3823	5247
2.57		3663	3671
2.614	TCX	422843	259494
2.704		4680	9586
2.784		9549	6126
2.829		3528	8151
2.911		22894	10310
2.922		81580	35629
3.007		2668	3783
3.107		13319	24338
3.177		6916	7093
3.2		3567	2093
3.226		14248	13643
3.264		15643	10890
3.308		3663	1884
3.324		5700	3209
3.355		3557	1931
3.383		32588	30542
3.403		15037	7072
3.417		8406	3334
3.433		9924	4925
3.492		25443	20584
3.526		365293	214601
3.549		160818	87510
3.567		77921	38970
3.652		220096	139632
3.675		35366	17895
3.696		48577	35037
3.725		22666	10939
3.741		112441	66449
3.781		32505	28258
3.823		30762	29001
3.852		118755	67727
3.874		1175862	775700
3.899		258782	147459
3.918		141820	74323
3.937		275344	168064
3.973		1411674	990391
4.005		608899	399588
4.022		190210	93586
4.083		98697	82127
4.118		488407	365191
4.144		24161	19345
4.175		917850	668097
4.208		359777	302845
4.235		1924256	1815869
4.274		406455	403015
4.327		2461375	1997223
4.364		204147	164975

RT B	Compound B	Height B	Area B
4.396		1518724	1054935
4.42		622838	429219
4.463		3193116	2545994
4.518		8934	6736
4.566		2119878	2138243
4.616		1273587	1054413
4.657		750483	656410
4.694		3869044	3302582
4.726		1160510	763011
4.765		1018576	789820
4.823		10105	5507
4.836		9222	5689
4.864		206390	138476
4.881		99218	55579
4.915		1640597	1220048
4.939		650655	462065
4.99		950849	858292
5.025		556217	437558
5.055		368515	294104
5.087		317397	195966
5.11		4380948	3579254
5.151		99972	68654
5.182		125324	102958
5.247		7024	4556
5.28		3259	1904
5.301		37083	22409
5.325		732847	611710
5.369		2839840	3155055
5.524		48850	41360
5.57		99524	80167
5.593		22781	14288
5.616		5709	2944
5.642		496614	406077
5.684		3351	2611
5.749		1092880	907375
5.78		60382	45273
5.948		216867	197841
6.108	DCB	356895	321290
6.282		7100	4788
6.31		14981	13138
6.53		2157	2970
6.771		1916	1261
7.011		2657	3928
7.352		32467	239036
7.554		9202	10781
7.712		2917	6206
7.778		1490	1402
8.212		20227	31806

9004840ACF DF50 ACA5501 T 171440031A 10225 SW-846 8082

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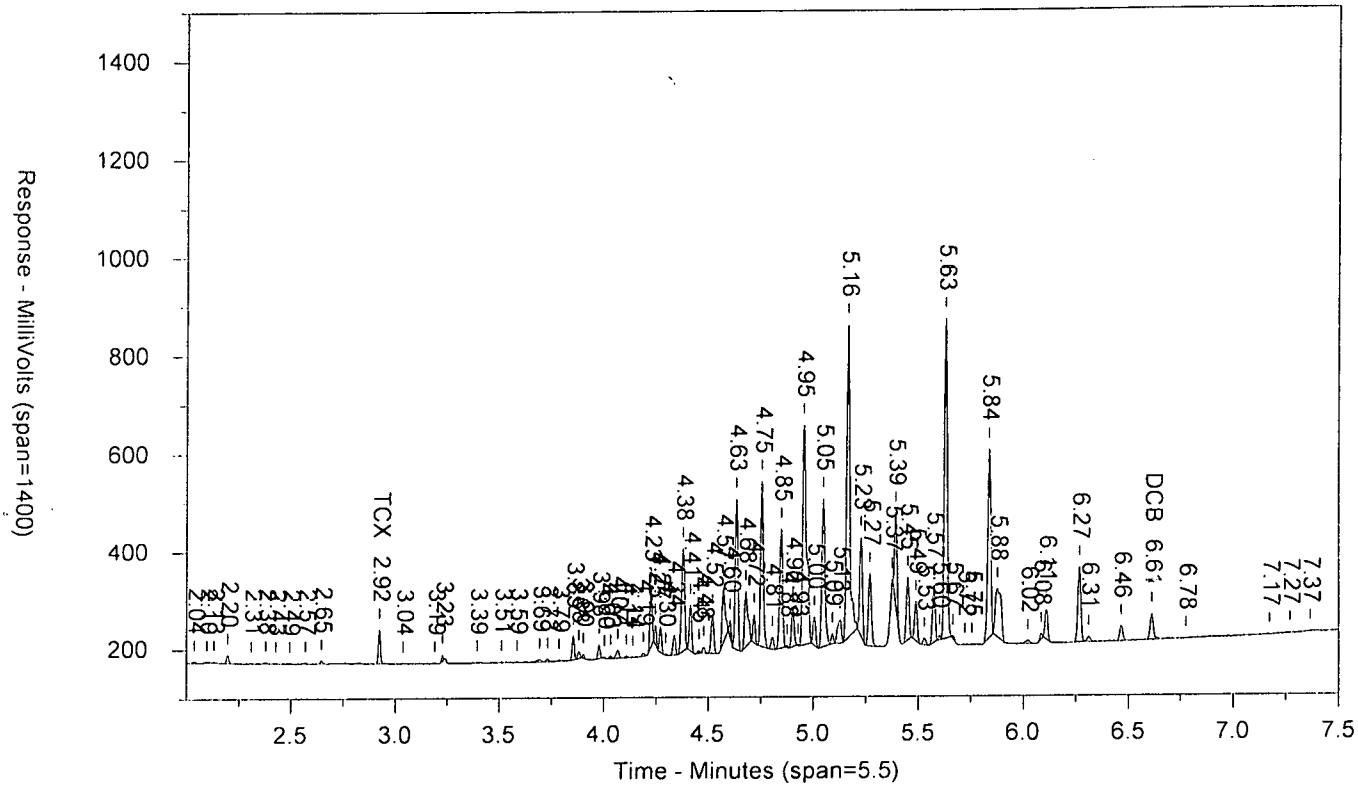

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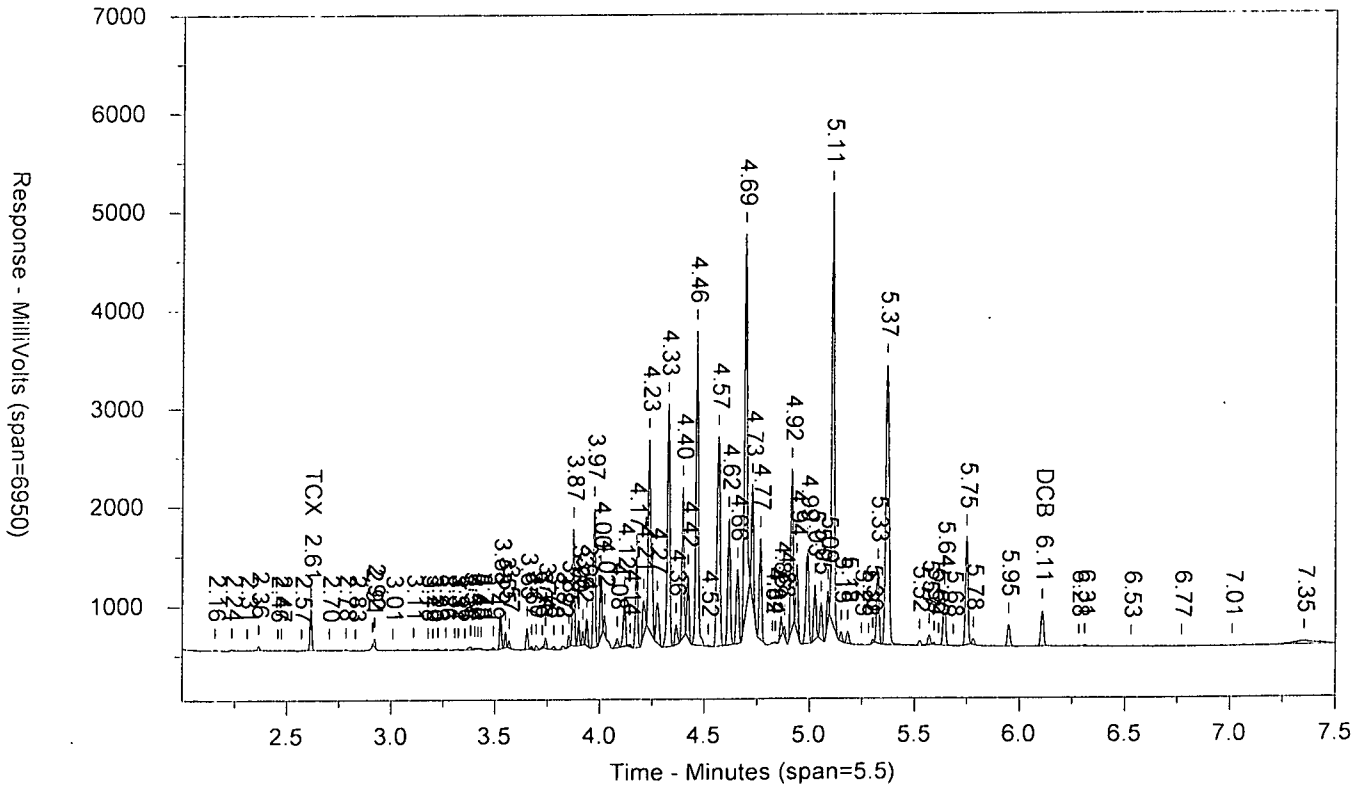

LANCASTER LABORATORIES

Sample Number: 9004840ACF DF50 ACA5501 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:23:15 PM Sample Weight: 10.13
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	70600	30.664	TCX	2.614	422843	30.19	TCX
6.611	53614	38.455	DCB	6.108	356895	36.159	DCB

Files:
Area File: 20pcbs17137009.026.RAW
Area File: 20pcbs17137009B.026.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 7:32:00 PM
File Reported On: 5/26/2017 at 7:32:07 PM

9004840ACF DF50 ACA5501 T 171440031A 10225 SW-846 8082

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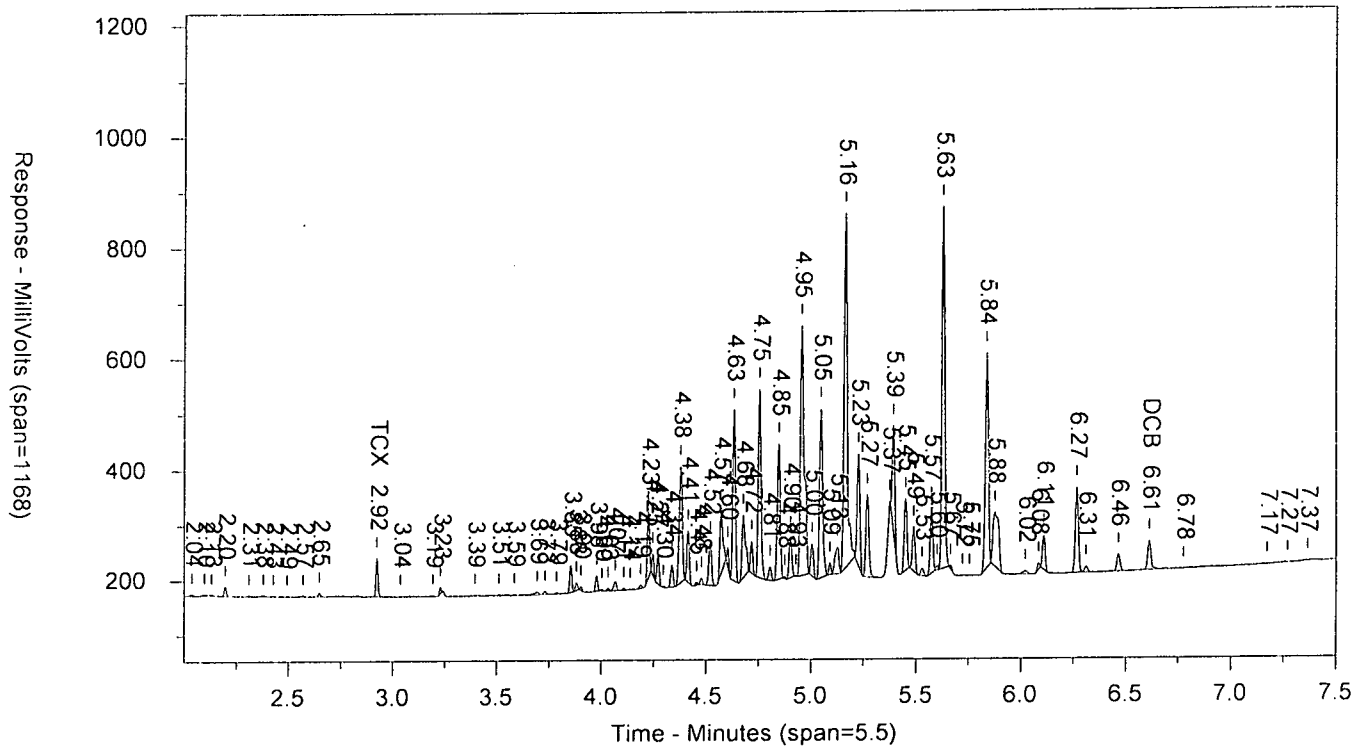

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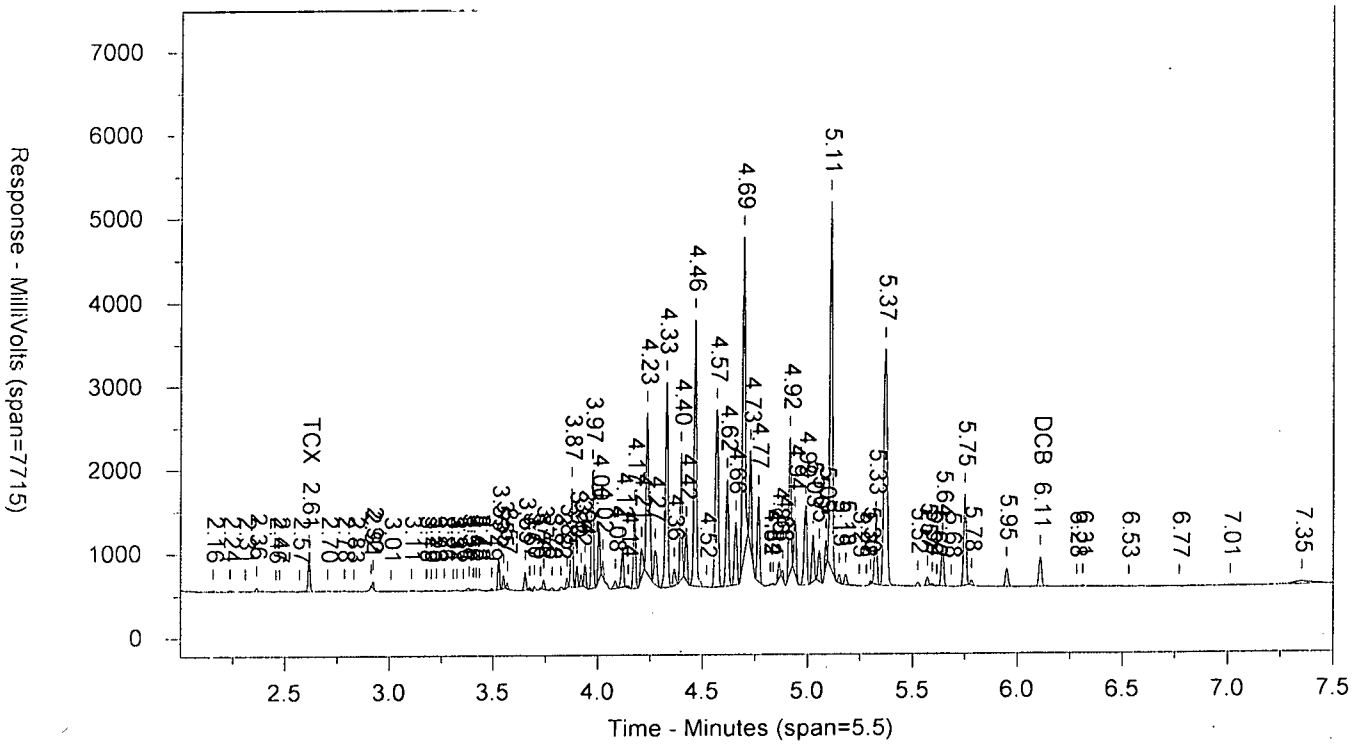

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Data Summary

Sample Name: 9004841 ACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.33 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:34:36
Instrument	17342A
Result file	20PCBS17137009.027.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 110% (61 - 152) Conc: 31.11752
%SSR(DCB) 144% (48 - 164) Conc: 40.69104

Analysis Report (B)

Injected on	May 26, 2017 19:34:36
Instrument	17342B
Result file	20PCBS17137009B.027.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 107% (61 - 152) Conc: 30.26507
%SSR(DCB) 139% (48 - 164) Conc: 39.29907

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	73058	31.11752	Tetrachloro-m-xylene	2.59	2.61	2.65	432259	30.26507
Decachlorobiphenyl	6.58	6.61	6.64	57852	40.69104	Decachlorobiphenyl	6.08	6.11	6.14	395549	39.29907

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	31.11752				2.78	
☑	Decachlorobiphenyl	A	40.69104				3.48	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**23.38**	
4.73	4.76	4.77	498806.3	5760.933956			1
5.03	5.05	5.07	442877.1	9257.233058			2
5.20	5.23	5.24	314200.2	5608.933307			3
5.37	5.39	5.41	318274	4979.536308			4
5.61	5.63	5.65	1128956	7286.421511			5
5.82	5.84	5.86	634212.8	7286.508011			6

Height summation: **3337326.4**
Concentration CF: **6696.594359** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.69**	
4.31	4.33	4.35	3738103	6408.444899			1
4.44	4.46	4.48	4974290	7231.385765			2
4.55	4.57	4.59	3425334	6189.149737			3
4.90	4.92	4.94	2687647	6317.661229			4
5.09	5.11	5.13	7321949	7584.063597			5
5.35	5.37	5.39	4943628	7654.60895			6

Height summation: **27090951**
Concentration CF: **6897.552363** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<2468.5382	<479.1868			4	
☑	PCB-1221			<2468.5382	<740.5615			3	
☑	PCB-1232			<2468.5382	<595.3533			4	
☑	PCB-1242			<2468.5382	<595.3533			4	
☑	PCB-1248			<2468.5382	<479.1868			4	
☑	PCB-1254			<2468.5382	<638.9158			4	
☑	PCB-1260	B	6897.552363	2468.5382	566.3117		2.96	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by:
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004841** ACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.33 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:34:36
Instrument : CP20--17342A
Result file : 20PCBS17137009.027.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 110% (61-152) Conc.: 31.11752
%SSR(DCB) : 144% (48-164) Conc.: 40.69104

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**122.10**	
3.16	3.19	3.20	2574.733	60.736717			1
3.37	3.40	3.41	1847.365	42.677286			2
3.49	3.51	3.53	1401.449	28.757135			3
3.71	3.73	3.75	7789.344	144.263507			4
3.76	3.79	3.80	3411.673	77.252086			5
3.96	3.98	4.00	16593.03	468.587276			6
Height Summation:			**33617.594**				
Amount Avg CF:			**137.045668**	Linear:			
Aroclor-1221					**2**	**29.51**	
3.06	3.08	3.10	1408.119	69.341226			1
3.16	3.19	3.20	2574.733	45.397864			3
Height Summation:			**3982.852**				
Amount Avg CF:			**57.369545**	Linear:			
Aroclor-1232					**6**	**136.03**	
3.16	3.19	3.20	2574.733	50.610239			1
3.38	3.40	3.42	1847.365	90.24343			2
3.49	3.51	3.53	1401.449	62.393045			3
3.71	3.73	3.75	7789.344	319.676431			4
3.77	3.79	3.81	3411.673	178.594706			5
3.96	3.98	4.00	16593.03	1123.667277			6
Height Summation:			**33617.594**				
Amount Avg CF:			**304.197522**	Linear:			
Aroclor-1242					**6**	**123.62**	
3.16	3.19	3.20	2574.733	70.897745			1
3.38	3.40	3.42	1847.365	51.514141			2
3.49	3.51	3.53	1401.449	35.689389			3
3.71	3.73	3.75	7789.344	176.331688			4
3.77	3.79	3.81	3411.673	98.642363			5
3.96	3.98	4.00	16593.03	586.864562			6
Height Summation:			**33617.594**				
Amount Avg CF:			**169.989982**	Linear:			
Aroclor-1248					**6**	**164.42**	
3.76	3.79	3.80	3411.673	142.286562			1
3.83	3.85	3.87	31386.32	719.781916			2
3.96	3.98	4.00	16593.03	323.114253			3
4.05	4.07	4.09	16088.35	376.866553			4
4.23	4.23	4.27	121645.5	2405.446097			5
+ 4.23	4.25	4.27	34532.82	682.859926			5
4.61	4.63	4.65	364483.3	9831.978292			6
Height Summation:			**553608.173**				
Amount Avg CF:			**2299.912279**	Linear:			
Aroclor-1254					**6**	**86.11**	
4.21	4.23	4.25	121645.5	2040.181642			1
4.55	4.57	4.59	117175.2	1955.484985			2
4.61	4.63	4.65	364483.3	3011.697905			3
4.73	4.76	4.77	498806.3	13731.480911			4
4.83	4.85	4.87	301359.6	3768.097097			5
5.14	5.16	5.18	877467.7	10680.72907			6
Height Summation:			**2280937.6**				
Amount Avg CF:			**5864.611935**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:34:36
Instrument : CP20--17342B
Result file : 20PCBS17137009B.027.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 107% (61-152) Conc.: 30.26507
%SSR(DCB) : 139% (48-164) Conc.: 39.29907

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**92.57**	
2.88	2.91	2.92	31870.34	136.422207			1
3.21	3.23	3.25	12285.87	42.318938			2
+ 3.40	3.40	3.44	9979.655	34.209883			3
3.40	3.42	3.44	18742.86	64.24982			3
3.47	3.49	3.51	32526.77	94.284636			4
3.63	3.65	3.67	140443.8	484.537889			5
+ 3.72	3.73	3.76	53527.58	215.513179			6
3.72	3.74	3.76	94500.4	380.478281			6
Height Summation:			**330370.04**				
Amount Avg CF:			**200.381962**	Linear:			
Aroclor-1221					**3**	**36.39**	
+ 2.77	2.77	2.81	2020.727	16.390097			1
2.77	2.78	2.81	21157.59	171.609011			1
2.83	2.83	2.87	6884.315	90.581869			2
2.88	2.91	2.92	31870.34	101.086436			3
Height Summation:			**59912.245**				
Amount Avg CF:			**121.092439**	Linear:			
Aroclor-1232					**6**	**111.12**	
2.88	2.91	2.92	31870.34	111.664883			1
3.21	3.23	3.25	12285.87	89.066567			2
+ 3.40	3.40	3.44	9979.655	80.866173			3
3.40	3.42	3.44	18742.86	151.875326			3
3.47	3.49	3.51	32526.77	214.531156			4
+ 3.66	3.68	3.70	29202.14	705.258268			5
3.66	3.70	3.70	53666.3	1296.090006			5
+ 3.73	3.73	3.77	53527.58	493.080973			6
3.73	3.74	3.77	94500.4	870.511037			6
Height Summation:			**243592.54**				
Amount Avg CF:			**455.623162**	Linear:			
Aroclor-1242					**6**	**95.33**	
2.88	2.91	2.92	31870.34	158.661399			1
3.21	3.23	3.25	12285.87	51.213832			2
+ 3.40	3.40	3.44	9979.655	42.303375			3
3.40	3.42	3.44	18742.86	79.450264			3
3.47	3.49	3.51	32526.77	120.639065			4
3.64	3.65	3.68	140443.8	632.654561			5
+ 3.73	3.73	3.77	53527.58	269.19478			6
3.73	3.74	3.77	94500.4	475.250597			6
Height Summation:			**330370.04**				
Amount Avg CF:			**252.978286**	Linear:			
Aroclor-1248					**6**	**145.37**	
+ 3.40	3.40	3.44	9979.655	86.738945			1
3.40	3.42	3.44	18742.86	162.90502			1
3.51	3.53	3.55	233651.1	720.035621			2
3.63	3.65	3.67	140443.8	346.41676			3
+ 3.72	3.73	3.76	53527.58	182.851174			4
3.72	3.74	3.76	94500.4	322.815062			4
3.86	3.87	3.90	1209457	2181.272357			5
4.22	4.24	4.26	1621285	6613.329778			6
+ 4.22	4.25	4.26	433257	1767.284234			6
Height Summation:			**3318080.16**				
Amount Avg CF:			**1724.462433**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004841** ACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.33 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:34:36
Instrument : CP20--17342A
Result file : 20PCBS17137009.027.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	23.38	
4.73	4.76	4.77	498806.3	5760.933956			1
5.03	5.05	5.07	442877.1	9257.233058			2
5.20	5.23	5.24	314200.2	5608.933307			3
+ 5.37	5.37	5.41	20086.8	314.266795			4
5.37	5.39	5.41	318274	4979.536308			4
5.61	5.63	5.65	1128956	7286.421511			5
5.82	5.84	5.86	634212.8	7286.508011			6
Height Summation:			**3337326.4**				
Amount Avg CF:			**6696.594359**	Linear:			
Aroclor-1262					6	28.70	
5.21	5.23	5.24	314200.2	3046.38597			1
+ 5.37	5.37	5.41	20086.8	241.076332			2
5.37	5.39	5.41	318274	3819.838334			2
5.61	5.63	5.65	1128956	5605.935928			3
5.81	5.84	5.85	634212.8	5698.471133			4
5.87	5.88	5.91	162814.8	2953.07938			5
6.25	6.27	6.29	273816	4082.227859			6
Height Summation:			**2832273.8**				
Amount Avg CF:			**4200.989767**	Linear:			
Aroclor-1268					6	116.30	
5.81	5.84	5.85	634212.8	2562.636495			1
5.87	5.88	5.91	162814.8	754.003319			2
6.00	6.02	6.04	9331.008	46.342207			3
6.07	6.09	6.11	19330.11	418.748382			4
6.25	6.27	6.29	273816	3292.343839			5
6.45	6.47	6.49	53967.1	82.918318			6
Height Summation:			**1153471.818**				
Amount Avg CF:			**1192.832094**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:34:36
Instrument : CP20--17342B
Result file : 20PCBS17137009B.027.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	88.49	
4.16	4.17	4.19	990774.7	2293.927256			1
4.22	4.24	4.26	1621285	2115.555398			2
+ 4.22	4.25	4.26	433257	565.341186			2
4.31	4.33	4.35	3738103	10485.489028			3
4.38	4.40	4.42	1823803	3540.155364			4
4.44	4.46	4.48	4974290	16766.876911			5
4.60	4.62	4.64	1610850	4456.90201			6
Height Summation:			**14759105.7**				
Amount Avg CF:			**6609.817661**	Linear:			
Aroclor-1260					6	9.69	
4.31	4.33	4.35	3738103	6408.444899			1
4.44	4.46	4.48	4974290	7231.385765			2
4.55	4.57	4.59	3425334	6189.149737			3
4.90	4.92	4.94	2687647	6317.661229			4
5.09	5.11	5.13	7321949	7584.063597			5
5.35	5.37	5.39	4943628	7654.60895			6
Height Summation:			**27090951**				
Amount Avg CF:			**6897.552363**	Linear:			
Aroclor-1262					6	35.85	
4.71	4.73	4.75	1879351	2806.502625			1
4.90	4.92	4.94	2687647	4034.753044			2
5.09	5.11	5.13	7321949	5778.828169			3
5.31	5.32	5.35	1193501	2273.244242			4
5.35	5.37	5.39	4943628	5849.928298			5
5.73	5.75	5.77	1818741	3976.718616			6
Height Summation:			**19844817**				
Amount Avg CF:			**4119.995832**	Linear:			
Aroclor-1268					6	125.54	
5.31	5.32	5.35	1193501	697.997252			1
5.35	5.37	5.39	4943628	2855.61433			2
5.51	5.52	5.55	70950.67	47.70454			3
5.57	5.59	5.61	36567.77	101.692266			4
5.73	5.75	5.77	1818741	3121.066498			5
5.93	5.95	5.97	374856.8	84.640481			6
Height Summation:			**8438245.24**				
Amount Avg CF:			**1151.452561**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2468.5382	479.1868		37.54	4	40	
Aroclor-1221			2468.5382	740.5615		** 71.41	3	5	
Aroclor-1232			2468.5382	595.3533		39.86	4	10	
Aroclor-1242			2468.5382	595.3533		39.24	4	30	
Aroclor-1248			2468.5382	479.1868		28.60	4	40	
Aroclor-1254			2468.5382	638.9158		11.95	4	40	
Aroclor-1260			2468.5382	566.3117		2.96	4	40	
Aroclor-1262			2468.5382	479.1868		1.95	4	40	
Aroclor-1268			2468.5382	479.1868		3.53	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004841ACF DF50 ACA5502 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:34:36 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.027.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		2308	2481
2.1		2082	2736
2.129		2032	2391
2.197		21031	14410
2.309		2437	1970
2.379		3251	4137
2.426		1772	1892
2.494		1001	1013
2.57		4026	3556
2.627		1198	749
2.647		8581	5921
2.695		503	479
2.828		2544	3092
2.923	TCX	73058	48878
3.036		3366	2282
3.076		1408	1389
3.192		2575	2446
3.229		25853	28202
3.317		789	662
3.395		1847	1550
3.464		1665	1254
3.513		1401	865
3.534		1312	1454
3.587		3500	2352
3.693		4789	6282
3.731		7789	7187
3.786		3412	2645
3.855		31386	23274
3.884		10653	9552
3.902		5507	2708
3.978		16593	11922
4.002		3232	1997
4.033		5652	3894
4.068		16088	17191
4.109		4051	3029
4.137		1148	689
4.157		888	363
4.191		6652	5002
4.227		121646	94344
4.248		34533	20085
4.271		57500	44369
4.295		2026	1266
4.338		45900	38446
4.381		265071	254381
4.415		104464	83525
4.455		6954	4894
4.479		12047	8937
4.52		89889	87330
4.573		117175	125178
4.604		35546	21170
4.634		364483	319767
4.679		181062	202467
4.718		75912	58078
4.756		498806	466866

RT A	Compound A	Height A	Area A
4.807		33340	29317
4.848		301360	298173
4.877		6202	3164
4.903		108810	103296
4.956		716061	893421
5.006		91690	85389
5.048		442877	459554
5.091		26683	18706
5.128		70287	90272
5.164		877468	860852
5.187		34845	16195
5.226		314200	293334
5.27		241175	237897
5.375		20087	27063
5.391		318274	264287
5.45		209401	193808
5.489		124135	112310
5.53		21445	20249
5.574		176395	165401
5.601		10017	5365
5.631		1128956	1127130
5.72		2351	2455
5.838		634213	647953
5.879		162815	317818
6.02		9331	13419
6.085		19330	14684
6.11		107946	96125
6.266		273816	260861
6.312		16952	16622
6.467		53967	56774
6.612	DCB	57852	62541
6.691		2195	1893
6.864		748	1180
7.287		724	2224
7.4		1782	8545
7.497		1090	2731
8.033		872	1746
8.684		2981	2965

LANCASTER LABORATORIES

Sample Number: 9004841ACF DF50 ACA5502 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:34:36 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.027.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		2640	1597
2.112		4943	7449
2.156		32189	20293
2.24		21894	48090
2.364		63562	48557
2.391		3699	3286
2.448		3847	3522
2.476		5270	6575
2.568		4804	5409
2.594		3413	2043
2.615	TCX	432259	255785
2.703		2694	3092
2.767		2021	1111
2.784		21158	11855
2.829		6884	16336
2.911		31870	13435
2.921		116401	51375
3.001		5316	5996
3.089		2250	2103
3.106		7877	4270
3.177		12543	13405
3.203		3129	1713
3.226		12286	8071
3.263		27401	17765
3.326		10116	13981
3.354		2403	1500
3.383		33044	28423
3.404		9980	5029
3.418		18743	23459
3.492		32527	26224
3.526		233651	142084
3.55		159382	88639
3.567		78381	37057
3.653		140444	88492
3.675		29202	14872
3.697		53666	36680
3.726		53528	28152
3.742		94500	50043
3.78		35546	30640
3.824		43048	43142
3.853		118322	68825
3.875		1209457	779205
3.9		302543	179615
3.919		131263	67431
3.938		291816	179967
3.973		1797114	1187803
4.005		737545	487661
4.023		162768	73231
4.084		95774	79002
4.118		548904	439721
4.145		30749	26176
4.175		990775	718084
4.209		401146	363951
4.235		1621285	930993

RT B	Compound B	Height B	Area B
4.248		433257	209490
4.274		580768	593037
4.326		3738103	2910474
4.364		257877	210700
4.396		1823803	1298090
4.421		888171	621317
4.464		4974290	3980079
4.518		12168	9333
4.565		3425334	3282558
4.616		1610850	1381929
4.657		1089699	965395
4.694		6002969	5028244
4.726		1879351	1275131
4.765		1579801	1261630
4.823		14356	7979
4.836		14754	6945
4.865		352021	239632
4.881		133329	75377
4.915		2687647	2024816
4.939		892491	604738
4.989		1523854	1363237
5.025		851751	682168
5.055		569483	460800
5.087		421506	255220
5.11		7321949	5983404
5.151		152742	112866
5.182		200732	164548
5.225		6635	4148
5.245		11349	7835
5.281		3990	3405
5.301		61740	38071
5.325		1193501	1001633
5.368		4943629	5330308
5.468		7761	8434
5.524		70951	59584
5.57		173038	136842
5.593		36568	22877
5.615		4775	2061
5.642		814677	691099
5.685		3926	3223
5.749		1818741	1550218
5.78		110584	79556
5.948		374857	330687
6.107	DCB	395549	346994
6.282		11930	8973
6.311		11735	10408
6.585		4400	7089
7.013		6506	14197
7.348		23771	159410
7.557		4413	5095
7.722		2944	3907
8.067		1402	2528
8.116		2197	3002
8.213		21046	40577
8.435		2884	6015
8.64		1242	2806

9004841ACF DF50 ACA5502 T 171440031A 10225 SW-846 8082

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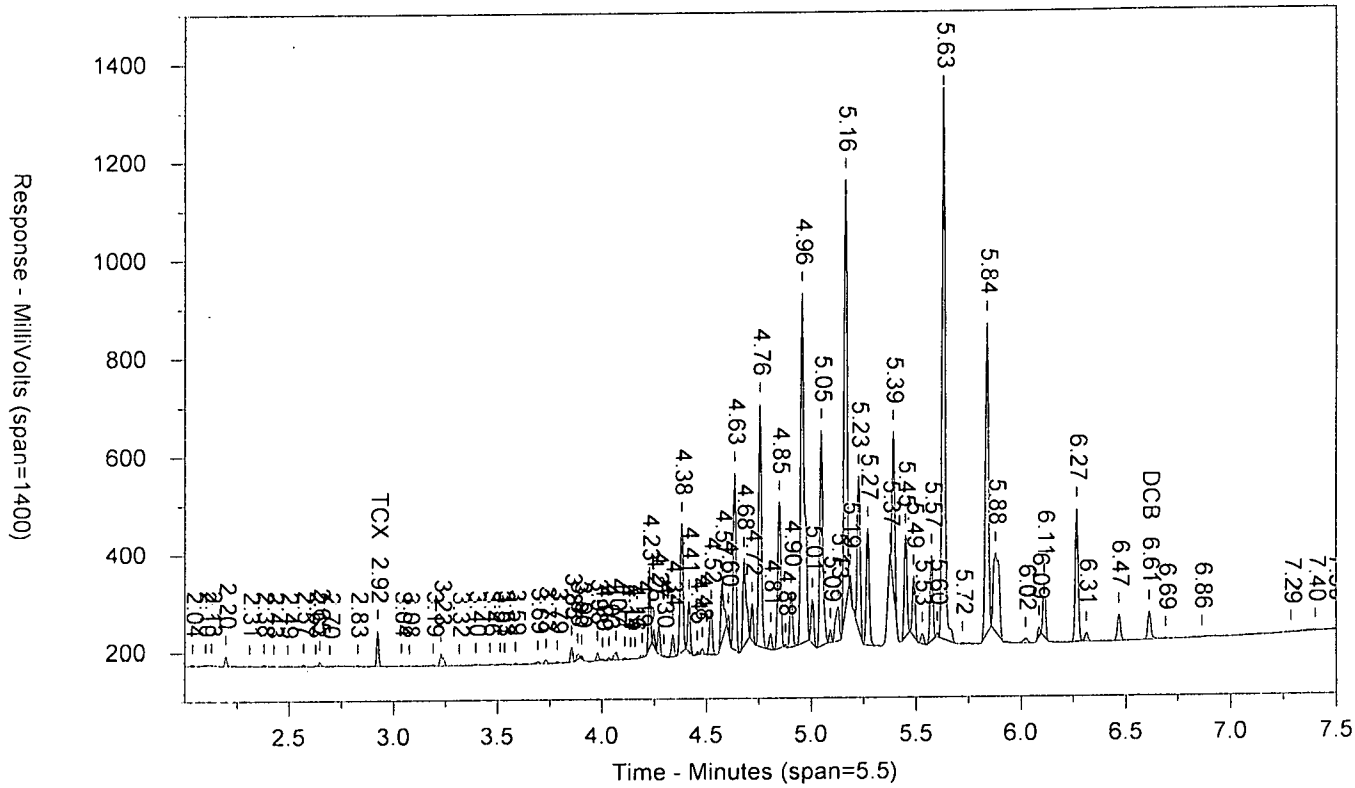

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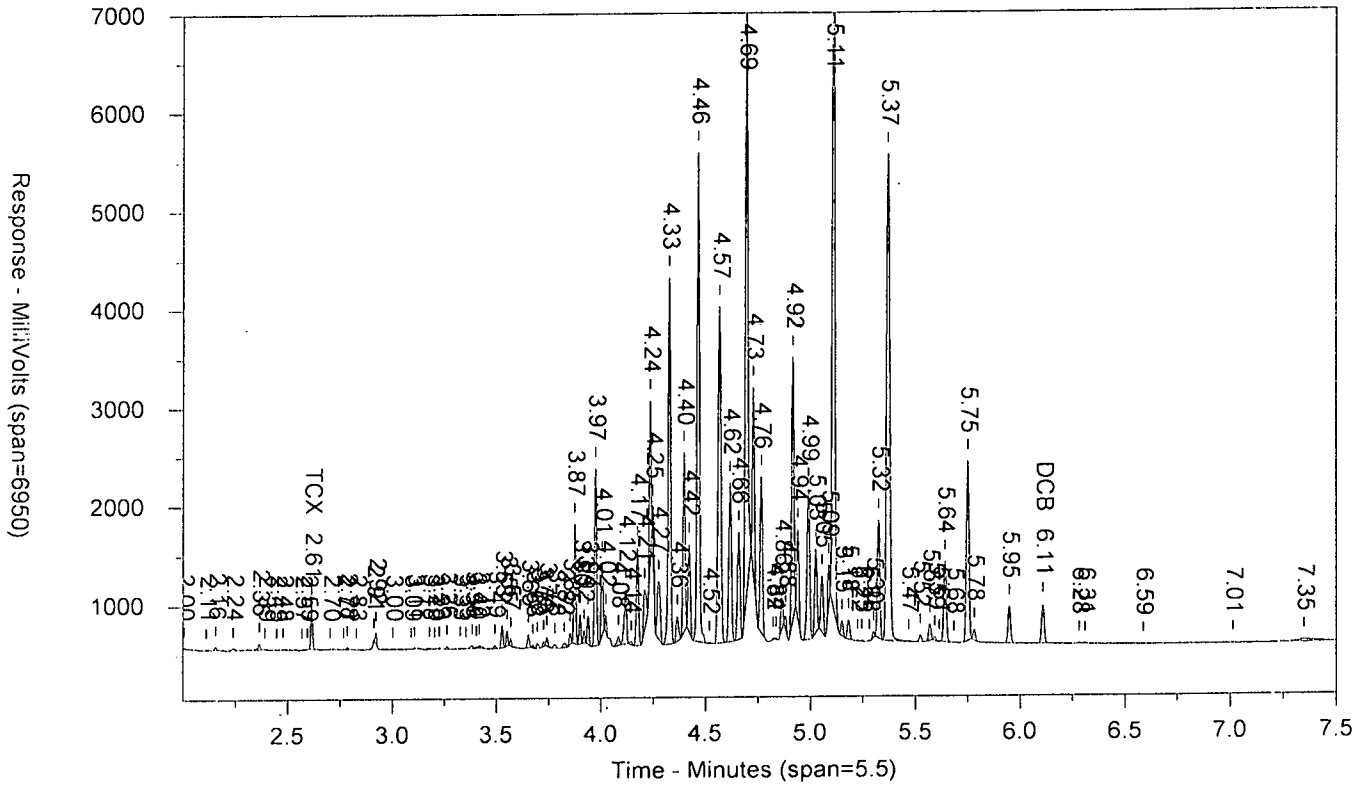

LANCASTER LABORATORIES

Sample Number: 9004841ACF DF50 ACA5502 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:34:36 PM Sample Weight: 10.33
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	73058	31.118	TCX	2.615	432259	30.265	TCX
6.612	57852	40.691	DCB	6.107	395549	39.299	DCB

Files:
Area File: 20pcbs17137009.027.RAW
Area File: 20pcbs17137009B.027.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 7:43:19 PM
File Reported On: 5/26/2017 at 7:43:29 PM

9004841ACF DF50 ACA5502 T 171440031A 10225 SW-846 8082

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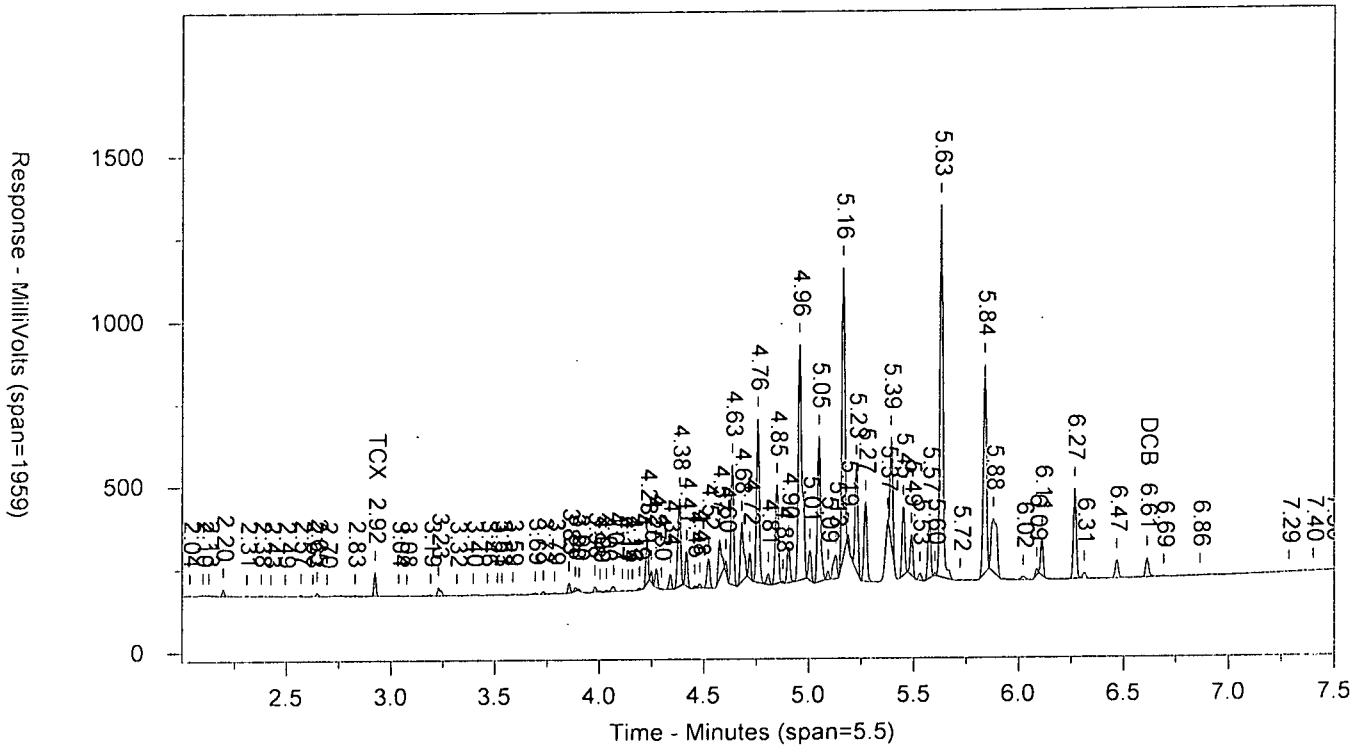

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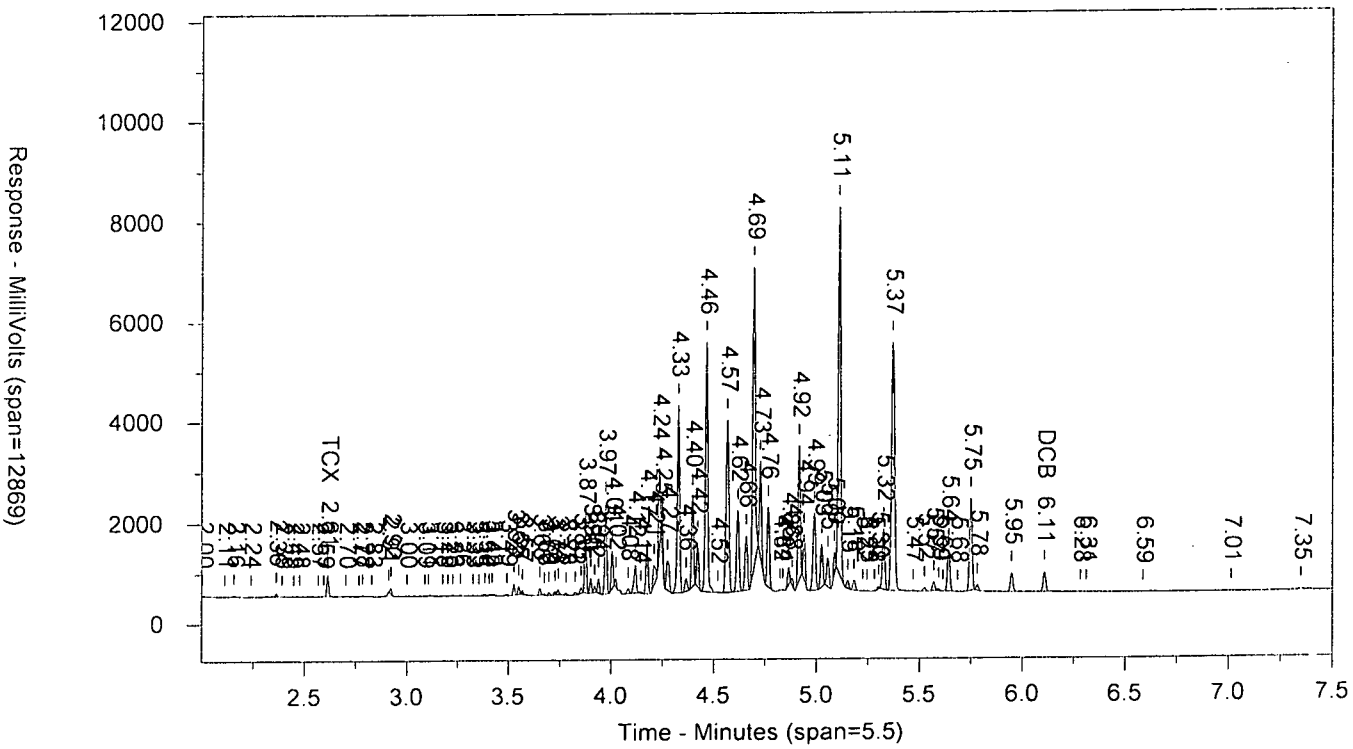


eurofins | Lancaster Laboratories Environmental

Data Summary

Sample Name: 9004844 ACF DF50 A5503 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.09 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 20:09:02
Instrument	17342A
Result file	20PCBS17137009.030.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 120% (61 - 152) Conc: 34.87562
%SSR(DCB) 143% (48 - 164) Conc: 41.60941

Analysis Report (B)

Injected on	May 26, 2017 20:09:02
Instrument	17342B
Result file	20PCBS17137009B.030.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 116% (61 - 152) Conc: 33.60767
%SSR(DCB) 140% (48 - 164) Conc: 40.46512

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	79979	34.87562
Decachlorobiphenyl	6.58	6.61	6.64	57784	41.60941

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	468848	33.60767
Decachlorobiphenyl	6.08	6.11	6.14	397823	40.46512

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
✓	Tetrachloro-m-xylene	A	34.87562				3.70	
✓	Decachlorobiphenyl	A	41.60941				2.79	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**19.68**	
4.73	4.76	4.77	517252.7	6116.076205			1
5.03	5.05	5.07	455821.1	9754.422286			2
5.20	5.23	5.24	316262.3	5780.034081			3
5.37	5.39	5.41	423358.9	6781.184966			4
5.61	5.63	5.65	1106154	7309.068371			5
5.82	5.84	5.86	607048.8	7140.312248			6

Height summation: **3425897.8**
Concentration CF: **7146.849693** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.46**	
4.31	4.33	4.35	3927030	6892.468104			1
4.44	4.46	4.48	5160989	7681.260922			2
4.55	4.57	4.59	3445752	6374.134697			3
4.90	4.92	4.94	2540166	6113.013585			4
5.09	5.11	5.13	7131876	7562.897344			5
5.35	5.37	5.39	4721575	7484.680623			6

Height summation: **26927388**
Concentration CF: **7018.075879** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
✓	PCB-1016			<2527.2548	<490.5848			4	
✓	PCB-1221			<2527.2548	<758.1764			3	
✓	PCB-1232			<2527.2548	<609.5144			4	
✓	PCB-1242			<2527.2548	<609.5144			4	
✓	PCB-1248			<2527.2548	<490.5848			4	
✓	PCB-1254			<2527.2548	<654.113			4	
✓	PCB-1260	A	7146.849693	2527.2548	579.782		1.82	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Muller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004844** ACF DF50 A5503 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.09 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:09:02
Instrument : CP20--17342A
Result file : 20PCBS17137009.030.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 120% (61-152) Conc.: 34.87562
%SSR(DCB) : 143% (48-164) Conc.: 41.60941

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**141.24**	
3.16	3.19	3.20	2826.473	68.261073			1
3.37	3.40	3.41	1979.718	46.822712			2
3.49	3.51	3.53	1229.276	25.8242			3
3.71	3.73	3.75	6032.737	114.387653			4
3.76	3.79	3.80	2976.407	68.999238			5
3.96	3.98	4.00	20166.47	583.04736			6
Height Summation:			**35211.081**				
Amount Avg CF:			**151.223706**	Linear:			
Aroclor-1221					**2**	**17.72**	
3.06	3.08	3.10	786.6783	39.660527			1
3.16	3.19	3.20	2826.473	51.021969			3
Height Summation:			**3613.1513**				
Amount Avg CF:			**45.341248**	Linear:			
Aroclor-1232					**6**	**155.73**	
3.16	3.19	3.20	2826.473	56.880079			1
3.38	3.40	3.42	1979.718	99.009159			2
3.49	3.51	3.53	1229.276	56.02959			3
3.71	3.73	3.75	6032.737	253.47392			4
3.77	3.79	3.81	2976.407	159.515414			5
3.96	3.98	4.00	20166.47	1398.141335			6
Height Summation:			**35211.081**				
Amount Avg CF:			**337.174916**	Linear:			
Aroclor-1242					**6**	**142.86**	
3.16	3.19	3.20	2826.473	79.680898			1
3.38	3.40	3.42	1979.718	56.517929			2
3.49	3.51	3.53	1229.276	32.049435			3
3.71	3.73	3.75	6032.737	139.814763			4
3.77	3.79	3.81	2976.407	88.104389			5
3.96	3.98	4.00	20166.47	730.215802			6
Height Summation:			**35211.081**				
Amount Avg CF:			**187.730536**	Linear:			
Aroclor-1248					**6**	**160.32**	
3.76	3.79	3.80	2976.407	127.086073			1
3.83	3.86	3.87	37176.7	872.851826			2
3.96	3.98	4.00	20166.47	402.040178			3
4.05	4.07	4.09	16870.05	404.577396			4
4.23	4.23	4.27	139686	2827.884178			5
+ 4.23	4.25	4.27	33137.75	670.859778			5
4.61	4.63	4.65	384288.8	10612.804377			6
Height Summation:			**601164.427**				
Amount Avg CF:			**2541.207338**	Linear:			
Aroclor-1254					**6**	**84.92**	
4.21	4.23	4.25	139686	2398.472946			1
4.55	4.57	4.59	122821.9	2098.474754			2
4.61	4.63	4.65	384288.8	3250.877876			3
4.73	4.76	4.77	517252.7	14577.980637			4
4.83	4.85	4.87	307909.9	3941.575615			5
5.14	5.17	5.18	910203.9	11342.730337			6
Height Summation:			**2382163.2**				
Amount Avg CF:			**6268.352027**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:09:02
Instrument : CP20--17342B
Result file : 20PCBS17137009B.030.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 116% (61-152) Conc.: 33.60767
%SSR(DCB) : 140% (48-164) Conc.: 40.46512

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**92.99**	
+ 2.88	2.88	2.92	2882.106	12.630411			1
2.88	2.91	2.92	54435.52	238.555759			1
3.21	3.23	3.25	14451.94	50.964075			2
3.40	3.40	3.44	13653.68	47.917586			3
+ 3.40	3.42	3.44	5898.036	20.699156			3
+ 3.40	3.43	3.44	12494.04	43.84783			3
3.47	3.49	3.51	25415.62	75.424051			4
3.63	3.65	3.67	156293.2	552.04491			5
+ 3.72	3.73	3.76	34543.22	142.386298			6
3.72	3.74	3.76	107293.4	442.260739			6
Height Summation:			**371543.36**				
Amount Avg CF:			**234.527853**	Linear:			
Aroclor-1221					**2**	**4.80**	
2.77	2.78	2.81	19889.54	165.161107			1
+ 2.88	2.88	2.92	2882.106	9.35891			3
2.88	2.91	2.92	54435.52	176.765587			3
Height Summation:			**74325.06**				
Amount Avg CF:			**170.963347**	Linear:			
Aroclor-1232					**6**	**109.73**	
+ 2.88	2.88	2.92	2882.106	10.338297			1
2.88	2.91	2.92	54435.52	195.263672			1
3.21	3.23	3.25	14451.94	107.261559			2
3.40	3.40	3.44	13653.68	113.268784			3
+ 3.40	3.42	3.44	5898.036	48.92918			3
+ 3.40	3.43	3.44	12494.04	103.648592			3
3.47	3.49	3.51	25415.62	171.616601			4
+ 3.66	3.68	3.70	33763.82	834.82268			5
3.66	3.70	3.70	52625.85	1301.193204			5
+ 3.73	3.73	3.77	34543.22	325.771141			6
3.73	3.74	3.77	107293.4	1011.865522			6
Height Summation:			**267876.01**				
Amount Avg CF:			**483.411557**	Linear:			
Aroclor-1242					**6**	**95.66**	
+ 2.88	2.88	2.92	2882.106	14.689388			1
2.88	2.91	2.92	54435.52	277.444497			1
3.21	3.23	3.25	14451.94	61.676066			2
3.40	3.40	3.44	13653.68	59.254094			3
+ 3.40	3.42	3.44	5898.036	25.596233			3
+ 3.40	3.43	3.44	12494.04	54.221501			3
3.47	3.49	3.51	25415.62	96.506572			4
3.64	3.65	3.68	156293.2	720.797563			5
+ 3.73	3.73	3.77	34543.22	177.852919			6
3.73	3.74	3.77	107293.4	552.422282			6
Height Summation:			**371543.36**				
Amount Avg CF:			**294.683512**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004844** ACF DF50 A5503 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.09 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:09:02
Instrument : CP20--17342A
Result file : 20PCBS17137009.030.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	19.68	
4.73	4.76	4.77	517252.7	6116.076205			1
5.03	5.05	5.07	455821.1	9754.422286			2
5.20	5.23	5.24	316262.3	5780.034081			3
5.37	5.39	5.41	423358.9	6781.184966			4
5.61	5.63	5.65	1106154	7309.068371			5
5.82	5.84	5.86	607048.8	7140.312248			6
Height Summation:			**3425897.8**				
Amount Avg CF:			**7146.849693**	Linear:			
Aroclor-1262					6	28.96	
5.21	5.23	5.24	316262.3	3139.316117			1
5.37	5.39	5.41	423358.9	5201.896055			2
5.61	5.63	5.65	1106154	5623.359687			3
5.81	5.84	5.85	607048.8	5584.137582			4
5.87	5.88	5.91	157115.6	2917.492207			5
6.25	6.27	6.29	237065.3	3618.391589			6
Height Summation:			**2847004.9**				
Amount Avg CF:			**4347.432206**	Linear:			
Aroclor-1268					6	113.53	
5.81	5.84	5.85	607048.8	2511.220015			1
5.87	5.88	5.91	157115.6	744.916924			2
6.00	6.02	6.04	8878.49	45.143624			3
6.07	6.09	6.11	18541.12	411.210255			4
6.25	6.27	6.29	237065.3	2918.256811			5
6.45	6.47	6.49	49019.14	77.107433			6
Height Summation:			**1077668.45**				
Amount Avg CF:			**1117.975844**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:09:02
Instrument : CP20--17342B
Result file : 20PCBS17137009B.030.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	143.30	
3.40	3.40	3.44	13653.68	121.494742			1
+ 3.40	3.42	3.44	5898.036	52.48258			1
+ 3.40	3.43	3.44	12494.04	111.1759			1
3.51	3.53	3.55	275923.1	870.529249			2
3.63	3.65	3.67	156293.2	394.680402			3
+ 3.72	3.73	3.76	34543.22	120.807005			4
3.72	3.74	3.76	107293.4	375.234107			4
3.86	3.88	3.90	1280018	2363.44062			5
4.22	4.24	4.26	1692713	7068.923794			6
+ 4.22	4.25	4.26	447946.2	1870.664165			6
Height Summation:			**3525894.38**				
Amount Avg CF:			**1865.717152**	Linear:			
Aroclor-1254					6	88.70	
4.16	4.18	4.19	1015188	2406.358695			1
4.22	4.24	4.26	1692713	2261.296562			2
+ 4.22	4.25	4.26	447946.2	598.411663			2
4.31	4.33	4.35	3927030	11277.447153			3
4.38	4.40	4.42	1923830	3823.140375			4
4.44	4.46	4.48	5160989	17809.969014			5
4.60	4.62	4.64	1628301	4612.345472			6
Height Summation:			**15348051**				
Amount Avg CF:			**7031.759545**	Linear:			
Aroclor-1260					6	9.46	
4.31	4.33	4.35	3927030	6892.468104			1
4.44	4.46	4.48	5160989	7681.260922			2
4.55	4.57	4.59	3445752	6374.134697			3
4.90	4.92	4.94	2540166	6113.013585			4
5.09	5.11	5.13	7131876	7562.897344			5
5.35	5.37	5.39	4721575	7484.680623			6
Height Summation:			**26927388**				
Amount Avg CF:			**7018.075879**	Linear:			
Aroclor-1262					6	37.23	
4.71	4.73	4.75	1771475	2708.330973			1
4.90	4.92	4.94	2540166	3904.055516			2
5.09	5.11	5.13	7131876	5762.700122			3
5.31	5.33	5.35	1119194	2182.417528			4
5.35	5.37	5.39	4721575	5720.062941			5
5.73	5.75	5.77	1672967	3744.9889			6
Height Summation:			**18957253**				
Amount Avg CF:			**4003.75933**	Linear:			
Aroclor-1268					6	125.38	
5.31	5.33	5.35	1119194	670.109005			1
5.35	5.37	5.39	4721575	2792.221181			2
5.51	5.53	5.55	62656.27	43.129746			3
5.57	5.59	5.61	36402.48	103.640518			4
5.73	5.75	5.77	1672967	2939.196991			5
5.93	5.95	5.97	335472.6	77.549489			6
Height Summation:			**7948267.35**				
Amount Avg CF:			**1104.307822**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2527.2546	490.5847		** 43.19	4	40	
Aroclor-1221			2527.2546	758.1764		** 116.15	3	5	
Aroclor-1232			2527.2546	609.5143		35.64	4	10	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004844** ACF DF50 A5503 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.09 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:09:02
Instrument : CP20--17342A
Result file : 20PCBS17137009.030.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 26, 2017 20:09:02
Instrument : CP20--17342B
Result file : 20PCBS17137009B.030.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1242			2527.2546	609.5143		** 44.34	4	30	
Aroclor-1248			2527.2546	490.5847		30.66	4	40	
Aroclor-1254			2527.2546	654.1129		11.48	4	40	
Aroclor-1260			2527.2546	579.7819		1.82	4	40	
Aroclor-1262			2527.2546	490.5847		8.23	4	40	
Aroclor-1268			2527.2546	490.5847		1.23	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004844ACF DF50 ACA5503 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:09:02 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.030.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		2577	2827
2.096		1793	2459
2.129		2725	2757
2.197		26032	18670
2.31		2679	2026
2.379		2894	3623
2.424		1835	1974
2.569		3393	2570
2.627		1076	613
2.647		8910	6233
2.699		680	743
2.83		2364	2373
2.924	TCX	79979	52887
3.036		3214	2261
3.08		787	821
3.194		2826	3077
3.229		18532	9545
3.243		10640	4934
3.398		1980	2475
3.467		1213	1354
3.515		1229	765
3.534		980	1482
3.587		2667	1942
3.695		4868	7466
3.733		6033	5929
3.787		2976	2292
3.855		37177	26783
3.883		11493	8665
3.904		8567	4741
3.979		20166	14240
4.004		3544	2220
4.035		5472	3906
4.069		16870	17129
4.111		4027	3371
4.14		1373	731
4.191		6502	4977
4.228		139686	104300
4.248		33138	19724
4.273		62337	46759
4.339		50238	41361
4.382		279221	269480
4.416		111550	89976
4.457		7605	5526
4.479		12417	9142
4.521		93259	86880
4.574		122822	132912
4.605		37374	21933
4.634		384289	334944
4.68		178769	210507
4.719		79541	59489
4.757		517253	479838
4.808		33341	30287
4.849		307910	302925
4.877		5248	3057

RT A	Compound A	Height A	Area A
4.904		108312	105358
4.956		750017	903411
5.006		95515	85796
5.05		455821	461447
5.092		25939	18646
5.129		75774	91397
5.165		910204	858181
5.187		26457	13320
5.228		316262	292190
5.271		234629	236005
5.392		423359	636501
5.451		204472	189913
5.49		123253	113141
5.531		20640	20178
5.575		175189	160314
5.602		10010	5537
5.632		1106154	1031904
5.719		2386	3535
5.838		607049	618588
5.878		157116	305410
6.023		8878	12316
6.086		18541	13790
6.109		94896	89845
6.267		237065	243418
6.313		16704	16287
6.468		49019	50253
6.614	DCB	57784	61199
6.691		2090	2587
7.334		628	632
7.568		899	740
7.667		539	557
7.781		820	1187
8.085		760	560
8.68		3868	6079

LANCASTER LABORATORIES

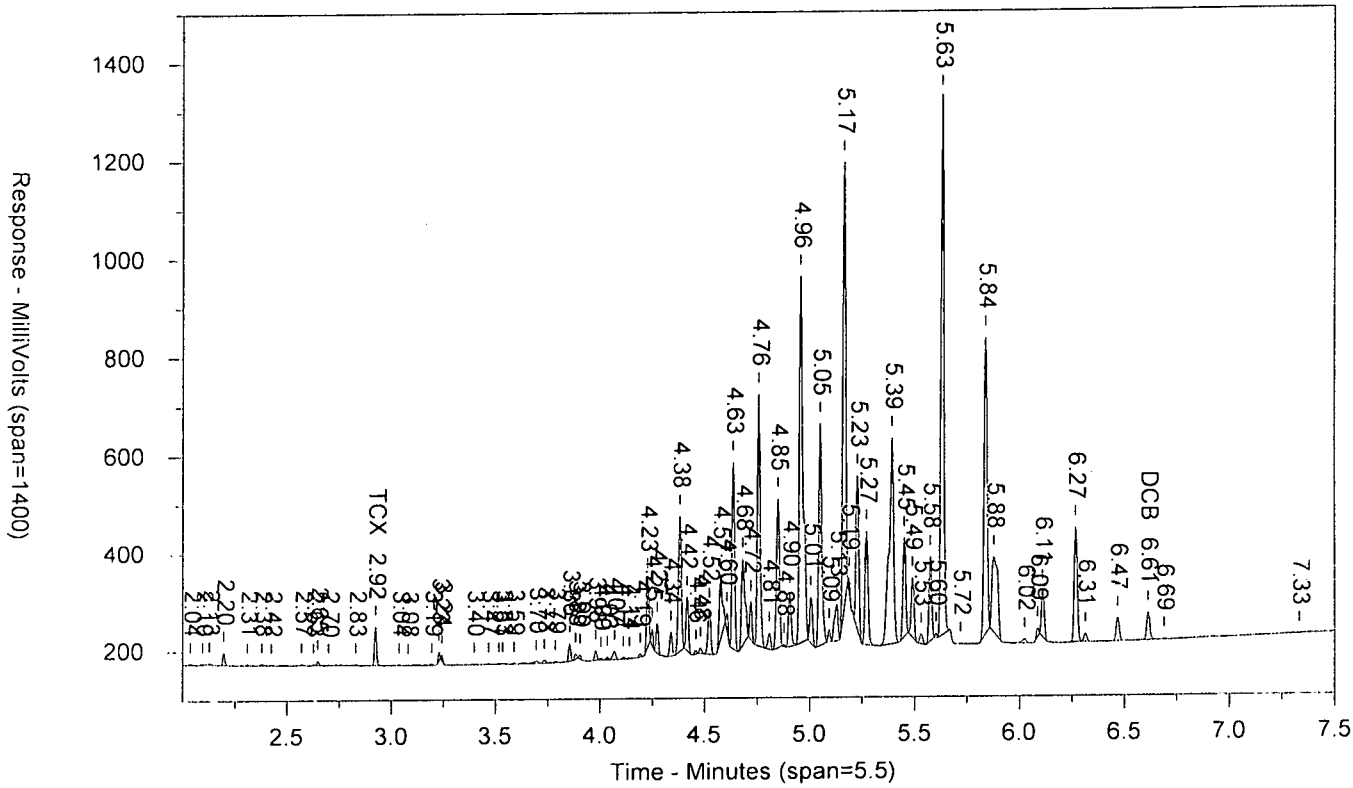
Sample Number: 9004844ACF DF50 ACA5503 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:09:02 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.030.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.115		4982	9412
2.156		27830	18359
2.238		16749	28457
2.308		3592	3641
2.363		68252	49085
2.451		2836	3163
2.476		3321	2245
2.566		5992	6020
2.614	TCX	468848	288928
2.703		5447	12407
2.784		19890	11015
2.881		2882	3141
2.91		54436	22293
2.921		118599	50969
3.032		1867	1986
3.106		10570	22070
3.178		8105	10274
3.201		3582	2041
3.225		14452	15781
3.264		20830	14377
3.309		3410	1953
3.325		7691	4357
3.352		2502	1335
3.384		34445	29019
3.404		13654	6785
3.418		5898	2217
3.433		12494	6755
3.492		25416	20490
3.527		275923	164340
3.55		149411	81761
3.568		90042	45203
3.628		2346	943
3.653		156293	96711
3.676		33764	17457
3.698		52626	37313
3.727		34543	16775
3.743		107293	60046
3.781		34313	28199
3.824		36661	37565
3.853		124113	70529
3.875		1280018	846302
3.901		306169	186181
3.92		144412	76056
3.939		314808	192772
3.974		1804381	1262507
4.006		791075	509014
4.023		176297	81958
4.085		101079	86466
4.119		578427	437559
4.145		31214	26452
4.176		1015188	752178
4.209		445341	404145
4.236		1692713	1001175
4.249		447946	193115

RT B	Compound B	Height B	Area B
4.275		600983	607710
4.328		3927030	2969373
4.365		251906	211858
4.397		1923830	1313343
4.422		915364	635840
4.464		5160989	4008157
4.517		12574	10938
4.567		3445752	3302800
4.617		1628301	1383996
4.658		1114426	964314
4.696		5941042	4947606
4.727		1771475	1196496
4.766		1609840	1257502
4.824		16352	9841
4.838		14002	7977
4.865		358503	238335
4.882		134948	77457
4.917		2540166	1973230
4.94		862167	596284
4.99		1538084	1337286
5.026		834893	672371
5.056		557629	451624
5.088		402525	253567
5.111		7131877	5778165
5.152		143468	109319
5.184		195457	158838
5.249		8986	6227
5.302		57161	33468
5.326		1119194	958173
5.37		4721575	5089191
5.526		62656	54752
5.571		153242	125727
5.595		36402	21979
5.615		5641	2842
5.643		766413	653021
5.751		1672967	1446318
5.782		100293	73079
5.949		335473	297521
6.108	DCB	397823	353467
6.283		9577	7669
6.311		7397	7051
7.012		3733	3975
8.111		1582	1502
8.217		20341	38408

9004844ACF DF50 ACA5503 T 171440031A 10225 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137009.030.RAW



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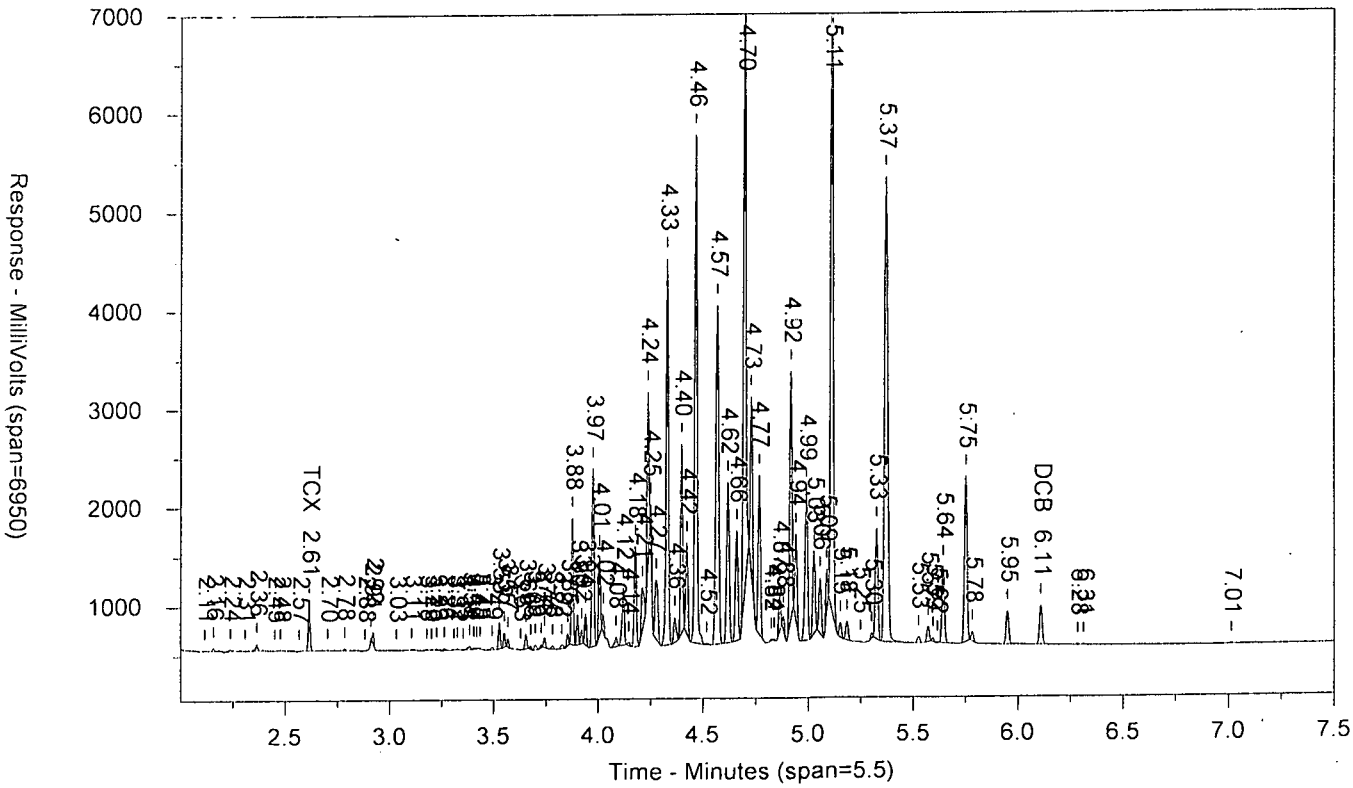


LANCASTER LABORATORIES

Sample Number: 9004844ACF DF50 ACA5503 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:09:02 PM Sample Weight: 10.09
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

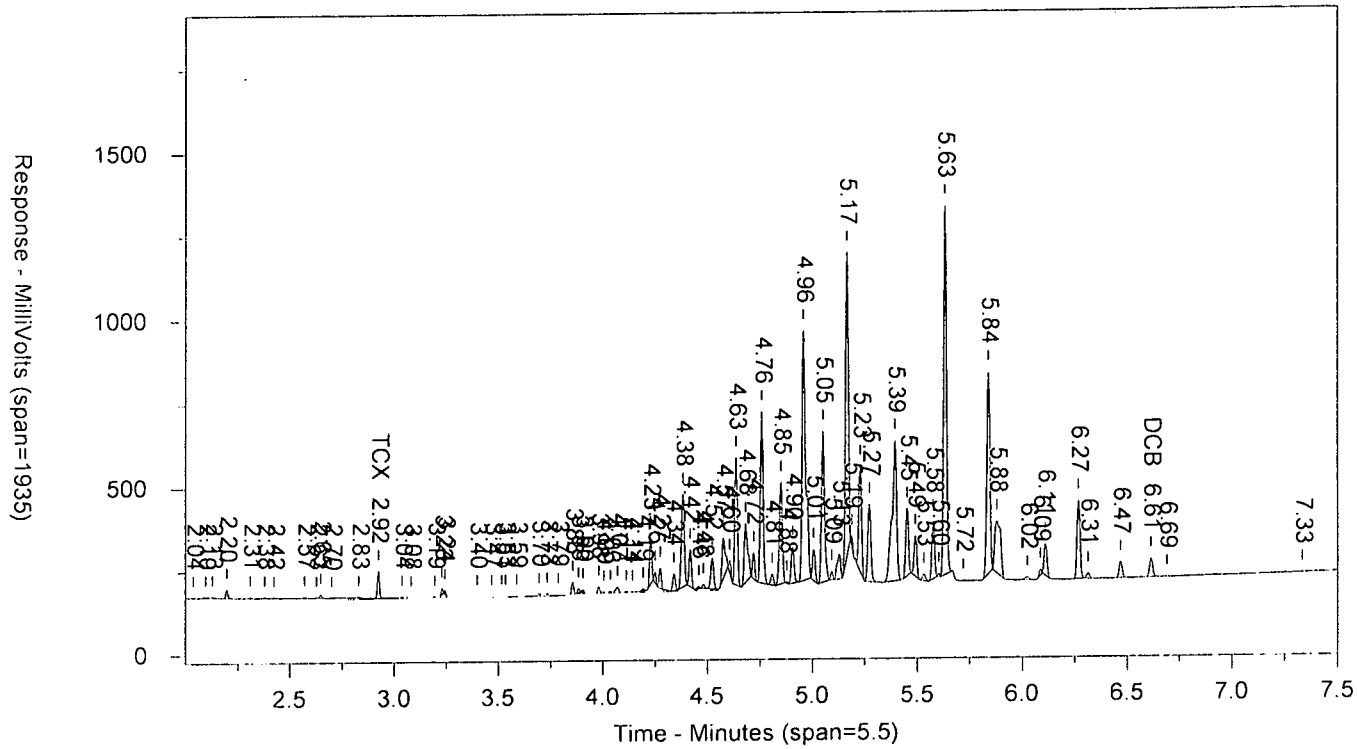
Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	79979	34.876	TCX	2.614	468848	33.608	TCX
6.614	57784	41.609	DCB	6.108	397823	40.465	DCB

Files:
Area File: 20pcbs17137009.030.RAW
Area File: 20pcbs17137009B.030.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 8:17:48 PM
File Reported On: 5/26/2017 at 8:17:58 PM

9004844ACF DF50 ACA5503 T 171440031A 10225 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137009.030.RAW



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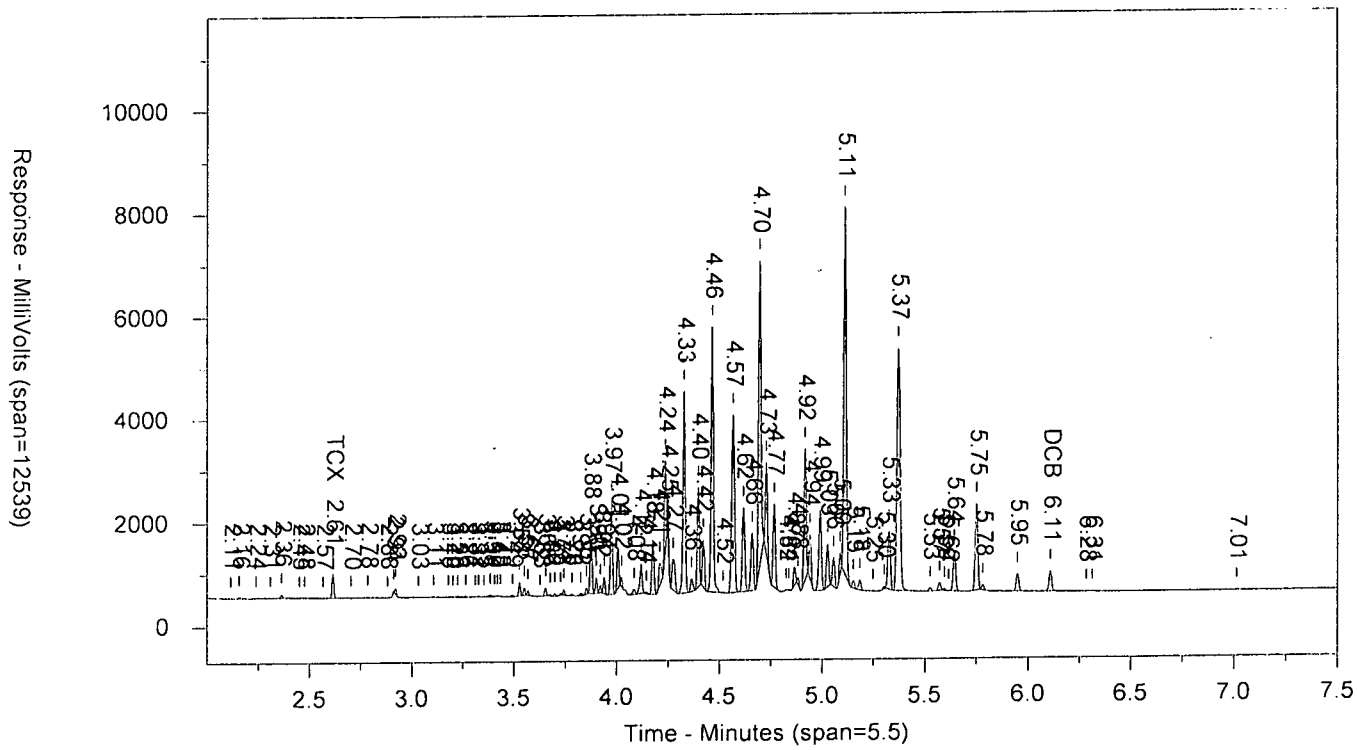

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Data Summary

Sample Name: 9004845 ACF DF100 A5504 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 20:20:36
Instrument	17342A
Result file	20PCBS17137009.031.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 132% (61 - 152) Conc: 38.32093
%SSR(DCB) 162% (48 - 164) Conc: 47.21003

Analysis Report (B)

Injected on	May 26, 2017 20:20:36
Instrument	17342B
Result file	20PCBS17137009B.031.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 126% (61 - 152) Conc: 36.57167
%SSR(DCB) 150% (48 - 164) Conc: 43.51798

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	43853	38.32093	Tetrachloro-m-xylene	2.59	2.61	2.65	254593	36.57167
Decachlorobiphenyl	6.58	6.61	6.64	32716	47.21003	Decachlorobiphenyl	6.08	6.11	6.14	213494	43.51798

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	38.32093				4.67	
☑	Decachlorobiphenyl	A	47.21003				8.14	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**26.11**	
4.73	4.76	4.77	330251.4	7825.398817			1
5.03	5.05	5.07	330622	14178.509164			2
5.20	5.23	5.24	203835	7465.405859			3
5.37	5.39	5.41	265239.9	8513.878404			4
5.61	5.63	5.65	683165.9	9046.160777			5
5.82	5.84	5.86	392627.6	9254.780349			6

Height summation: **2205741.8**
Concentration CF: **9380.688895** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.54**	
4.31	4.33	4.35	2565598	9023.828767			1
4.44	4.46	4.48	3509884	10468.489918			2
4.55	4.57	4.59	2264650	8395.179817			3
4.90	4.92	4.94	1654599	7979.537335			4
5.09	5.11	5.13	4362124	9269.88017			5
5.35	5.37	5.39	2965255	9419.766099			6

Height summation: **17322110**
Concentration CF: **9092.780351** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<5064.5484	<983.1182			4	
☑	PCB-1221			<5064.5484	<1519.3645			3	
☑	PCB-1232			<5064.5484	<1221.4499			4	
☑	PCB-1242			<5064.5484	<1221.4499			4	
☑	PCB-1248			<5064.5484	<983.1182			4	
☑	PCB-1254			<5064.5484	<1310.8243			4	
☑	PCB-1260	A	9380.688895	5064.5484	1161.867		3.12	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by:
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004845** ACF DF100 A5504 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:20:36
Instrument : CP20--17342A
Result file : 20PCBS17137009.031.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 132% (61-152) Conc.: 38.32093
%SSR(DCB) : 162% (48-164) Conc.: 47.21003

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**149.98**	
3.16	3.19	3.20	1065.644	51.574153			1
3.37	3.40	3.41	1305.394	61.870915			2
3.49	3.51	3.53	1378.054	58.014346			3
3.71	3.73	3.75	4675.156	177.644823			4
3.76	3.79	3.80	2097.356	97.435186			5
3.96	3.98	4.00	15793.19	915.030352			6
Height Summation:			**26314.794**				
Amount Avg CF:			**226.928296**	Linear:			
Aroclor-1221					**2**	**78.72**	
3.06	3.08	3.10	1339.564	135.336976			1
3.16	3.19	3.20	1065.644	38.549275			3
Height Summation:			**2405.208**				
Amount Avg CF:			**86.943126**	Linear:			
Aroclor-1232					**6**	**159.88**	
3.16	3.19	3.20	1065.644	42.975326			1
3.38	3.40	3.42	1305.394	130.829398			2
3.49	3.51	3.53	1378.054	125.871083			3
3.71	3.73	3.75	4675.156	393.646766			4
3.77	3.79	3.81	2097.356	225.254866			5
3.96	3.98	4.00	15793.19	2194.233			6
Height Summation:			**26314.794**				
Amount Avg CF:			**518.80174**	Linear:			
Aroclor-1242					**6**	**151.21**	
3.16	3.19	3.20	1065.644	60.202318			1
3.38	3.40	3.42	1305.394	74.682047			2
3.49	3.51	3.53	1378.054	71.999404			3
3.71	3.73	3.75	4675.156	217.133301			4
3.77	3.79	3.81	2097.356	124.413947			5
3.96	3.98	4.00	15793.19	1145.995452			6
Height Summation:			**26314.794**				
Amount Avg CF:			**282.404412**	Linear:			
Aroclor-1248					**6**	**158.93**	
3.76	3.79	3.80	2097.356	179.460753			1
3.83	3.86	3.87	28756.04	1352.977139			2
3.96	3.98	4.00	15793.19	630.958977			3
4.05	4.07	4.09	13248.02	636.689827			4
4.23	4.23	4.27	107843.3	4375.156546			5
+ 4.23	4.25	4.27	33663.99	1365.733673			5
4.61	4.64	4.65	289410.2	16016.88128			6
Height Summation:			**457148.106**				
Amount Avg CF:			**3865.354087**	Linear:			
Aroclor-1254					**6**	**74.89**	
4.21	4.23	4.25	107843.3	3710.793635			1
4.55	4.57	4.59	102777.6	3518.990552			2
4.61	4.64	4.65	289410.2	4906.236198			3
4.73	4.76	4.77	330251.4	18652.238561			4
4.83	4.85	4.87	255533.3	6555.19182			5
5.14	5.17	5.18	632215.8	15788.321153			6
Height Summation:			**1718031.6**				
Amount Avg CF:			**8855.29532**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:20:36
Instrument : CP20--17342B
Result file : 20PCBS17137009B.031.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 126% (61-152) Conc.: 36.57167
%SSR(DCB) : 150% (48-164) Conc.: 43.51798

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**104.48**	
2.88	2.91	2.92	23318.36	204.784567			1
3.21	3.23	3.25	10635.67	75.161345			2
+ 3.21	3.24	3.25	3218.088	22.741945			2
+ 3.40	3.41	3.44	8800.243	61.89158			3
3.40	3.42	3.44	9853.035	69.295802			3
3.47	3.49	3.51	21675.26	128.903631			4
3.63	3.65	3.67	128645.4	910.584555			5
+ 3.72	3.73	3.76	24586.88	203.09559			6
3.72	3.74	3.76	85357.5	705.080587			6
Height Summation:			**279485.225**				
Amount Avg CF:			**348.968415**	Linear:			
Aroclor-1221					**2**	**2.72**	
2.77	2.78	2.81	9476.885	157.703143			1
2.88	2.91	2.92	23318.36	151.741733			3
Height Summation:			**32795.245**				
Amount Avg CF:			**154.722438**	Linear:			
Aroclor-1232					**6**	**115.37**	
2.88	2.91	2.92	23318.36	167.621132			1
3.21	3.23	3.25	10635.67	158.188351			2
+ 3.21	3.24	3.25	3218.088	47.863843			2
+ 3.40	3.41	3.44	8800.243	146.300858			3
3.40	3.42	3.44	9853.035	163.803144			3
3.47	3.49	3.51	21675.26	293.30171			4
+ 3.66	3.68	3.70	29499.52	1461.6699			5
3.66	3.70	3.70	40916.02	2027.345356			5
+ 3.73	3.73	3.77	24586.88	464.670288			6
3.73	3.74	3.77	85357.5	1613.18126			6
Height Summation:			**191755.845**				
Amount Avg CF:			**737.240159**	Linear:			
Aroclor-1242					**6**	**107.13**	
2.88	2.91	2.92	23318.36	238.168013			1
3.21	3.23	3.25	10635.67	90.959289			2
+ 3.21	3.24	3.25	3218.088	27.522008			2
+ 3.40	3.41	3.44	8800.243	76.534103			3
3.40	3.42	3.44	9853.035	85.690042			3
3.47	3.49	3.51	21675.26	164.934758			4
3.64	3.65	3.68	128645.4	1188.937923			5
+ 3.73	3.73	3.77	24586.88	253.684126			6
3.73	3.74	3.77	85357.5	880.707222			6
Height Summation:			**279485.225**				
Amount Avg CF:			**441.566208**	Linear:			
Aroclor-1248					**6**	**160.64**	
+ 3.40	3.41	3.44	8800.243	156.925715			1
3.40	3.42	3.44	9853.035	175.699076			1
3.51	3.53	3.55	215258.2	1360.964205			2
3.63	3.65	3.67	128645.4	651.015655			3
+ 3.72	3.73	3.76	24586.88	172.315527			4
3.72	3.74	3.76	85357.5	598.222408			4
3.86	3.88	3.90	1055768	3906.508777			5
4.22	4.24	4.26	1858556	15553.828746			6
Height Summation:			**3353438.135**				
Amount Avg CF:			**3707.706478**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004845** ACF DF100 A5504 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:20:36
Instrument : CP20--17342A
Result file : 20PCBS17137009.031.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**26.11**	
4.73	4.76	4.77	330251.4	7825.398817			1
5.03	5.05	5.07	330622	14178.509164			2
5.20	5.23	5.24	203835	7465.405859			3
5.37	5.39	5.41	265239.9	8513.878404			4
5.61	5.63	5.65	683165.9	9046.160777			5
5.82	5.84	5.86	392627.6	9254.780349			6
Height Summation:			**2205741.8**				
Amount Avg CF:			**9380.688895**	Linear:			
Aroclor-1262					**6**	**45.74**	
5.21	5.23	5.24	203835	4054.6939			1
5.37	5.39	5.41	265239.9	6531.057729			2
5.61	5.63	5.65	683165.9	6959.822135			3
5.81	5.84	5.85	392627.6	7237.774059			4
+ 5.87	5.88	5.91	13914.24	517.775597			5
5.87	5.89	5.91	29917.49	1113.287268			5
6.25	6.27	6.29	153982.6	4709.891639			6
Height Summation:			**1728768.49**				
Amount Avg CF:			**5101.087788**	Linear:			
Aroclor-1268					**6**	**128.73**	
5.81	5.84	5.85	392627.6	3254.870213			1
+ 5.87	5.88	5.91	13914.24	132.202514			2
5.87	5.89	5.91	29917.49	284.253211			2
6.00	6.02	6.04	5367.762	54.694323			3
6.07	6.09	6.11	11364.67	505.098982			4
6.25	6.27	6.29	153982.6	3798.55884			5
6.45	6.47	6.49	31267.5	98.56334			6
Height Summation:			**624527.622**				
Amount Avg CF:			**1332.673151**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:20:36
Instrument : CP20--17342B
Result file : 20PCBS17137009B.031.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**77.14**	
4.16	4.18	4.19	838529.6	3983.125386			1
4.22	4.24	4.26	1858556	4975.555048			2
4.31	4.33	4.35	2565598	14764.776638			3
4.38	4.40	4.42	1527097	6081.516185			4
4.44	4.46	4.48	3509884	24272.509809			5
4.60	4.62	4.64	1273510	7229.049366			6
Height Summation:			**11573174.6**				
Amount Avg CF:			**10217.755405**	Linear:			
Aroclor-1260					**6**	**9.54**	
4.31	4.33	4.35	2565598	9023.828767			1
4.44	4.46	4.48	3509884	10468.489918			2
4.55	4.57	4.59	2264650	8395.179817			3
4.90	4.92	4.94	1654599	7979.537335			4
5.09	5.11	5.13	4362124	9269.88017			5
5.35	5.37	5.39	2965255	9419.766099			6
Height Summation:			**17322110**				
Amount Avg CF:			**9092.780351**	Linear:			
Aroclor-1262					**6**	**34.87**	
4.71	4.73	4.75	1145277	3508.883418			1
4.90	4.92	4.94	1654599	5096.104617			2
5.09	5.11	5.13	4362124	7063.369652			3
5.31	5.33	5.35	734807.4	2871.426343			4
5.35	5.37	5.39	2965255	7198.925069			5
5.73	5.75	5.77	1084531	4865.156579			6
Height Summation:			**11946593.4**				
Amount Avg CF:			**5100.64428**	Linear:			
Aroclor-1268					**6**	**125.08**	
5.31	5.33	5.35	734807.4	881.668437			1
5.35	5.37	5.39	2965255	3514.120608			2
5.51	5.53	5.55	38723.97	53.417546			3
5.57	5.59	5.61	22151.05	126.381822			4
5.73	5.75	5.77	1084531	3818.343381			5
5.93	5.95	5.97	227219	105.258753			6
Height Summation:			**5072687.42**				
Amount Avg CF:			**1416.531758**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			5064.5484	983.1182		** 42.38	4	40	
Aroclor-1221			5064.5484	1519.3645		** 56.09	3	5	
Aroclor-1232			5064.5484	1221.4499		34.78	4	10	
Aroclor-1242			5064.5484	1221.4499		** 43.97	4	30	
Aroclor-1248			5064.5484	983.1182		4.16	4	40	
Aroclor-1254			5064.5484	1310.8243		14.29	4	40	
Aroclor-1260			5064.5484	1161.867		3.12	4	40	
Aroclor-1262			5064.5484	983.1182		0.01	4	40	
Aroclor-1268			5064.5484	983.1182		6.10	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004845ACF DF100 ACA5504 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:20:36 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.031.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.036		1457	1662
2.099		2057	2793
2.13		1432	933
2.197		14992	9934
2.311		1649	1100
2.38		2584	3009
2.647		7463	6525
2.726		1131	900
2.814		1016	1250
2.924	TCX	43853	29436
3.036		1778	1311
3.075		1340	1137
3.194		1066	1042
3.23		11526	6440
3.397		1305	922
3.468		1183	1514
3.514		1378	932
3.588		1983	1389
3.694		4209	6575
3.733		4675	4401
3.788		2097	1975
3.856		28756	20785
3.884		9153	7203
3.905		5771	3113
3.98		15793	11146
4.004		3192	2060
4.035		4881	3392
4.07		13248	12923
4.112		3484	2860
4.154		890	1305
4.193		5724	4824
4.228		107843	82270
4.249		33664	19699
4.272		52902	40390
4.299		2013	1264
4.34		37195	31040
4.383		219803	214062
4.417		90311	72517
4.457		5573	3935
4.48		10106	7317
4.522		73707	67682
4.574		102778	106536
4.605		35892	21906
4.636		289410	255439
4.681		125018	143293
4.719		62339	46708
4.758		330251	327946
4.809		27612	24320
4.849		255533	243857
4.877		3899	2187
4.905		77015	68369
4.958		507685	619989
5.007		64875	58006
5.05		330622	337337

RT A	Compound A	Height A	Area A
5.093		21053	14636
5.13		51547	61878
5.166		632216	720516
5.228		203835	187546
5.271		153933	153969
5.392		265240	422069
5.452		130677	123203
5.492		79903	73286
5.532		13301	12931
5.576		119615	113296
5.602		7454	3962
5.633		683166	684507
5.723		1178	1130
5.839		392628	389680
5.88		13914	28116
5.891		29917	23685
6.023		5368	6691
6.087		11365	8541
6.111		64077	57085
6.267		153983	156356
6.313		10687	10549
6.468		31268	31681
6.614	DCB	32716	32080
6.691		1287	1235
6.918		858	1310
7.133		584	772
7.334		654	284
8.04		909	2952
8.4		778	1033

LANCASTER LABORATORIES

Sample Number: 9004845ACF DF100 ACA5504 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:20:36 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.031.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.114		2306	3294
2.155		8823	20707
2.238		16936	31575
2.363		50774	39478
2.396		3577	2798
2.45		5675	5212
2.475		4450	4952
2.542		4377	2458
2.569		2105	1504
2.595		2776	1669
2.614	TCX	254593	146378
2.641		3650	2450
2.7		2559	2573
2.734		2871	2117
2.784		9477	5045
2.827		5507	7589
2.911		23318	10681
2.921		76997	33249
2.998		4452	4935
3.084		2892	1948
3.105		6523	9057
3.176		7089	8084
3.226		10636	6849
3.244		3218	1640
3.264		13887	8595
3.31		2712	1608
3.326		10154	6936
3.353		3832	1745
3.384		29362	24942
3.406		8800	4538
3.418		9853	12178
3.493		21675	17720
3.527		215258	131068
3.551		119728	66205
3.568		71098	34550
3.654		128645	77528
3.676		29500	15278
3.698		40916	28307
3.727		24587	12415
3.743		85358	46994
3.782		26922	23911
3.824		28278	28582
3.853		121624	68766
3.876		1055768	685005
3.901		298237	177345
3.921		103723	53214
3.939		255216	158487
3.975		1460318	997462
4.006		642379	427354
4.024		134164	61850
4.084		79355	71350
4.119		457561	348975
4.147		27545	21630
4.177		838530	626641

RT B	Compound B	Height B	Area B
4.21		353244	323586
4.237		1858556	1764800
4.275		420492	429075
4.329		2565598	2048082
4.365		215261	170308
4.398		1527097	1091277
4.423		638438	436476
4.465		3509885	2785698
4.519		9379	7321
4.567		2264650	2234293
4.617		1273510	1087050
4.659		748443	649996
4.696		4029122	3426569
4.728		1145277	773495
4.767		1040755	818411
4.825		9145	4974
4.838		10343	5537
4.866		220464	146427
4.883		101771	57015
4.917		1654599	1250905
4.941		623178	437102
4.991		962303	854524
5.027		527426	439816
5.056		365300	294054
5.089		299525	190655
5.111		4362124	3630554
5.152		97705	69480
5.184		127645	99873
5.248		6028	3326
5.303		36387	22224
5.326		734807	607378
5.371		2965255	3188784
5.526		38724	32449
5.571		101337	81150
5.595		22151	13566
5.616		2616	1206
5.644		490610	416468
5.75		1084531	911838
5.782		63686	46279
5.95		227219	191455
6.109	DCB	213494	195988
6.283		4608	3964
6.311		3190	2929
6.483		2170	2206
7.014		2873	5201
7.561		1998	6124
7.718		2690	5157
7.775		2598	5501
7.916		2478	2244
8.218		21179	43276
8.482		1821	5773

9004845ACF DF100 ACA5504 T 171440031A 10225 SW-846 8082

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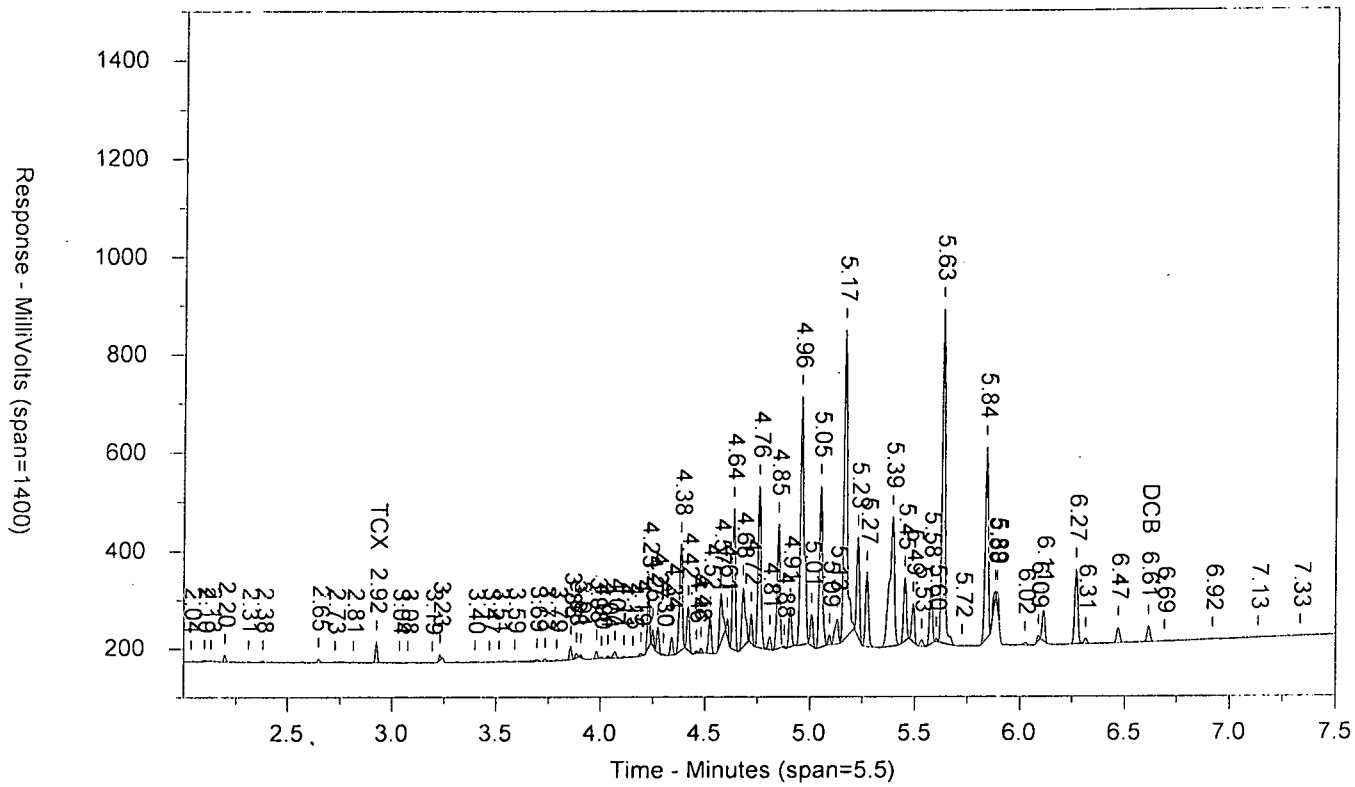

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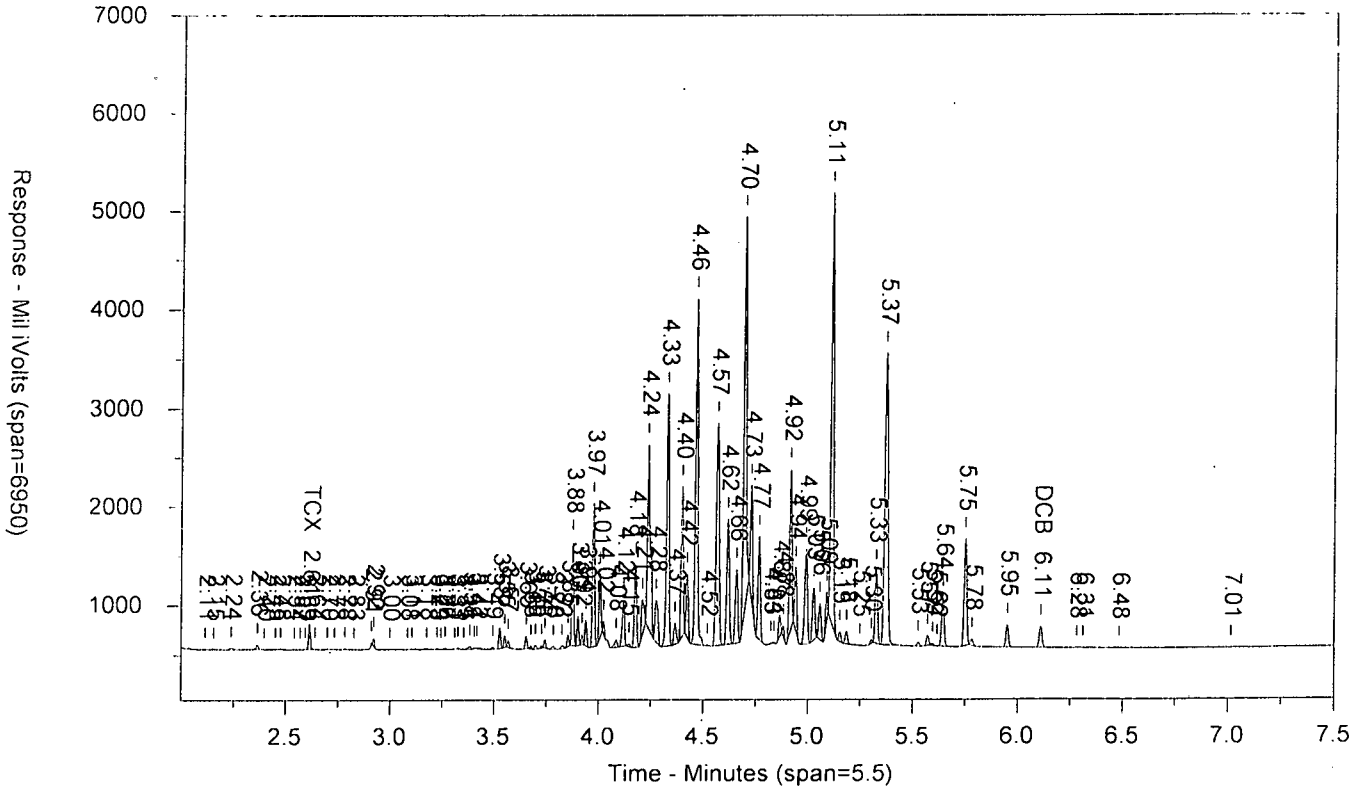

LANCASTER LABORATORIES

Sample Number: 9004845ACF DF100 ACA5504 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:20:36 PM Sample Weight: 10.07
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	43853	38.321	TCX	2.614	254593	36.572	TCX
6.614	32716	47.21	DCB	6.109	213494	43.518	DCB

Files:
Area File: 20pcbs17137009.031.RAW
Area File: 20pcbs17137009B.031.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 8:29:20 PM
File Reported On: 5/26/2017 at 8:29:30 PM

9004845ACF DF100 ACA5504 T 171440031A 10225 SW-846 8082

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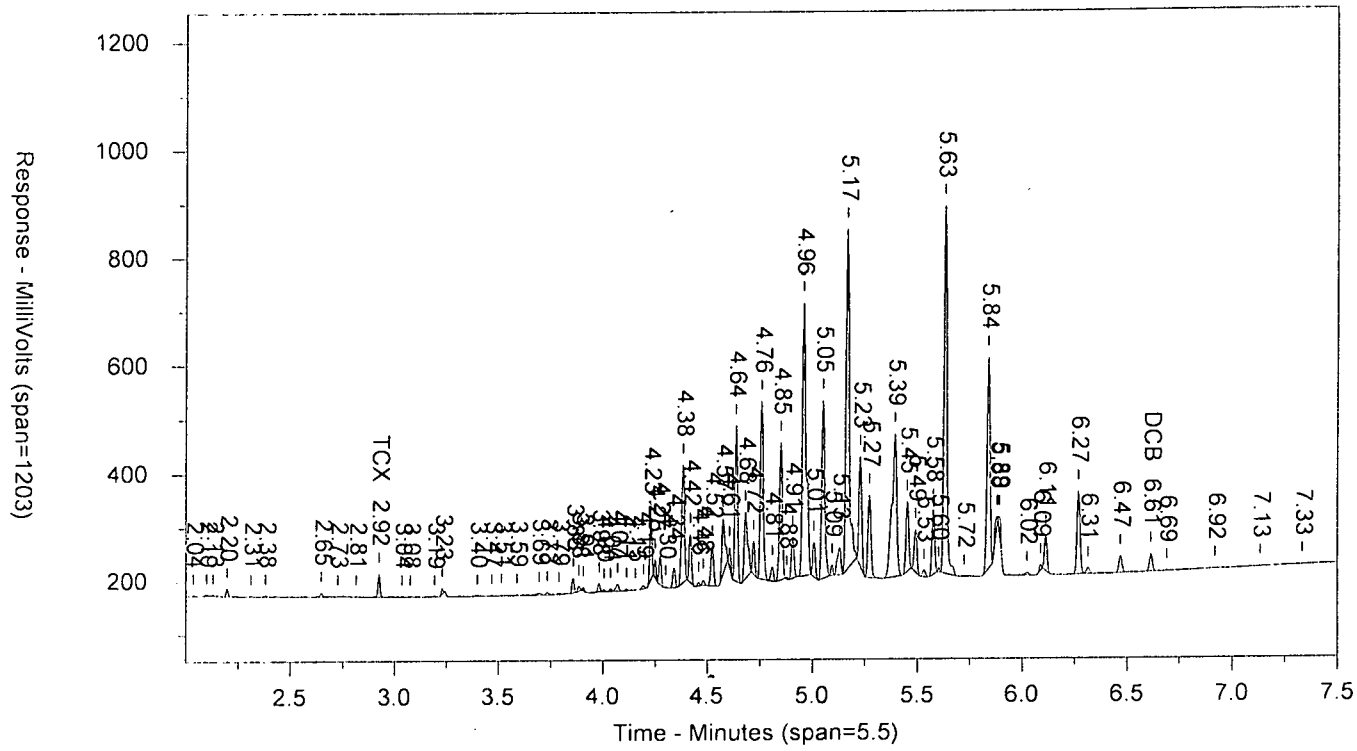

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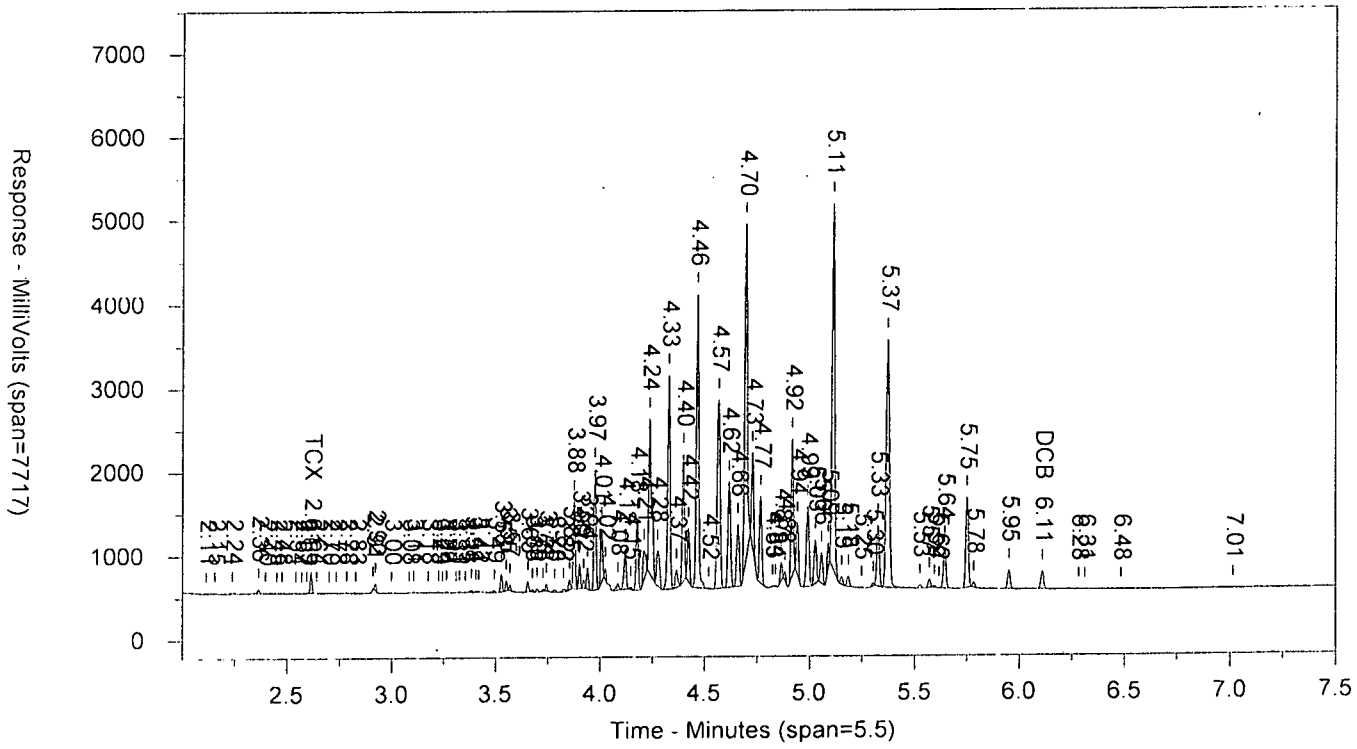

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Data Summary

Sample Name: 9004846 ACF DF100 A5505 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.26 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 20:32:06
Instrument	17342A
Result file	20PCBS17137009.032.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 133% (61 - 152) Conc: 37.80278
%SSR(DCB) 162% (48 - 164) Conc: 46.09398

Analysis Report (B)

Injected on	May 26, 2017 20:32:06
Instrument	17342B
Result file	20PCBS17137009B.032.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 125% (61 - 152) Conc: 35.57263
%SSR(DCB) 153% (48 - 164) Conc: 43.61424

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	44076	37.80278
Decachlorobiphenyl	6.58	6.62	6.64	32545	46.09398

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	252311	35.57263
Decachlorobiphenyl	6.08	6.11	6.14	218004	43.61424

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	37.80278				6.08	
☑	Decachlorobiphenyl	A	46.09398				5.53	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**31.13**	
4.73	4.76	4.77	315791.5	7344.197695			1
5.03	5.05	5.07	308233.9	12973.624703			2
5.20	5.23	5.24	191407.1	6880.417926			3
5.37	5.39	5.41	174433.6	5495.419386			4
5.61	5.63	5.65	639839.7	8315.558336			5
5.82	5.84	5.86	354402.2	8199.055183			6

Height summation: **1984108**
Concentration CF: **8201.378872** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**12.14**	
4.31	4.33	4.35	2321254	8013.219003			1
4.44	4.46	4.48	3259935	9542.942921			2
4.55	4.57	4.59	2014712	7330.337895			3
4.90	4.92	4.94	1452007	6872.832716			4
5.09	5.11	5.13	4175354	8708.663809			5
5.35	5.37	5.39	2821278	8796.422165			6

Height summation: **16044540**
Concentration CF: **8210.736418** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<4970.7605	<964.9123			4	
☑	PCB-1221			<4970.7605	<1491.2281			3	
☑	PCB-1232			<4970.7605	<1198.8305			4	
☑	PCB-1242			<4970.7605	<1198.8305			4	
☑	PCB-1248			<4970.7605	<964.9123			4	
☑	PCB-1254			<4970.7605	<1286.5498			4	
☑	PCB-1260	B	8210.736418	4970.7605	1140.3509		0.11	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 30 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004846** ACF DF100 A5505 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.26 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:32:06
Instrument : CP20--17342A
Result file : 20PCBS17137009.032.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 133% (61-152) Conc.: 37.80278
%SSR(DCB) : 162% (48-164) Conc.: 46.09398

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**130.53**	
3.16	3.19	3.20	2220.122	105.45785			1
3.37	3.40	3.41	1385.195	64.437392			2
3.49	3.51	3.53	1168.984	48.301414			3
3.71	3.73	3.75	3915.164	146.011989			4
3.76	3.79	3.80	2169.737	98.931108			5
3.96	3.98	4.00	12567.38	714.648517			6
Height Summation:			**23426.582**				
Amount Avg CF:			**196.298045**	Linear:			
Aroclor-1221					**1**		
3.16	3.19	3.20	2220.122	78.824825			3
Height Summation:			**2220.122**				
Amount Avg CF:			**78.824825**	Linear:			
Aroclor-1232					**6**	**146.56**	
3.16	3.19	3.20	2220.122	87.875132			1
3.38	3.40	3.42	1385.195	136.256351			2
3.49	3.51	3.53	1168.984	104.797376			3
3.71	3.73	3.75	3915.164	323.550928			4
3.77	3.79	3.81	2169.737	228.713202			5
3.96	3.98	4.00	12567.38	1713.719502			6
Height Summation:			**23426.582**				
Amount Avg CF:			**432.485415**	Linear:			
Aroclor-1242					**6**	**132.23**	
3.16	3.19	3.20	2220.122	123.100557			1
3.38	3.40	3.42	1385.195	77.779944			2
3.49	3.51	3.53	1168.984	59.945052			3
3.71	3.73	3.75	3915.164	178.468839			4
3.77	3.79	3.81	2169.737	126.324073			5
3.96	3.98	4.00	12567.38	895.034736			6
Height Summation:			**23426.582**				
Amount Avg CF:			**243.4422**	Linear:			
Aroclor-1248					**6**	**158.56**	
3.76	3.79	3.80	2169.737	182.216012			1
3.83	3.85	3.87	25208.13	1164.083462			2
3.96	3.98	4.00	12567.38	492.785727			3
4.05	4.07	4.09	10808.31	509.819964			4
4.23	4.23	4.27	100308.7	3994.120287			5
+ 4.23	4.25	4.27	27861.57	1109.399902			5
4.61	4.63	4.65	256775.2	13947.594388			6
Height Summation:			**407837.457**				
Amount Avg CF:			**3381.769973**	Linear:			
Aroclor-1254					**6**	**76.94**	
4.21	4.23	4.25	100308.7	3387.617331			1
4.55	4.57	4.59	96422.55	3240.263667			2
4.61	4.63	4.65	256775.2	4272.379327			3
4.73	4.76	4.77	315791.5	17505.271061			4
4.83	4.85	4:87	223511.5	5627.55676			5
5.14	5.17	5.18	570103.8	13973.546747			6
Height Summation:			**1562913.25**				
Amount Avg CF:			**8001.105815**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:32:06
Instrument : CP20--17342B
Result file : 20PCBS17137009B.032.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 125% (61-152) Conc.: 35.57263
%SSR(DCB) : 153% (48-164) Conc.: 43.61424

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**109.23**	
2.88	2.91	2.92	15346.78	132.281344			1
3.21	3.23	3.25	7647.359	53.042413			2
+ 3.40	3.41	3.44	5032.725	34.739392			3
3.40	3.42	3.44	8591.1	59.301788			3
3.47	3.49	3.51	15825.97	92.374752			4
3.63	3.65	3.67	105617.5	733.743068			5
+ 3.72	3.73	3.76	28347.01	229.819268			6
3.72	3.74	3.76	66379.88	538.16524			6
Height Summation:			**219408.589**				
Amount Avg CF:			**268.151434**	Linear:			
Aroclor-1221					**2**	**49.67**	
2.77	2.78	2.81	12500.04	204.158868			1
2.88	2.91	2.92	15346.78	98.01813			3
Height Summation:			**27846.82**				
Amount Avg CF:			**151.088499**	Linear:			
Aroclor-1232					**6**	**109.32**	
2.88	2.91	2.92	15346.78	108.275487			1
3.21	3.23	3.25	7647.359	111.635734			2
+ 3.40	3.41	3.44	5032.725	82.11784			3
3.40	3.42	3.44	8591.1	140.179043			3
3.47	3.49	3.51	15825.97	210.185488			4
3.66	3.67	3.70	21416.32	1041.504885			5
+ 3.73	3.73	3.77	28347.01	525.81243			6
3.73	3.74	3.77	66379.88	1231.289155			6
Height Summation:			**135207.409**				
Amount Avg CF:			**473.844966**	Linear:			
Aroclor-1242					**6**	**111.88**	
2.88	2.91	2.92	15346.78	153.845504			1
3.21	3.23	3.25	7647.359	64.191244			2
+ 3.40	3.41	3.44	5032.725	42.958157			3
3.40	3.42	3.44	8591.1	73.331609			3
3.47	3.49	3.51	15825.97	118.19533			4
3.64	3.65	3.68	105617.5	958.038388			5
+ 3.64	3.67	3.68	21416.32	194.263798			5
+ 3.73	3.73	3.77	28347.01	287.064334			6
3.73	3.74	3.77	66379.88	672.215378			6
Height Summation:			**219408.589**				
Amount Avg CF:			**339.969575**	Linear:			
Aroclor-1248					**6**	**159.78**	
+ 3.40	3.41	3.44	5032.725	88.081512			1
3.40	3.42	3.44	8591.1	150.359314			1
3.51	3.53	3.55	193831.8	1202.801988			2
3.63	3.65	3.67	105617.5	524.584149			3
+ 3.72	3.73	3.76	28347.01	194.98911			4
3.72	3.74	3.76	66379.88	456.603843			4
3.86	3.87	3.90	967400.6	3513.247712			5
4.22	4.24	4.26	1617654	13287.075639			6
Height Summation:			**2959474.88**				
Amount Avg CF:			**3189.112108**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004846** ACF DF100 A5505 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.26 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 20:32:06
Instrument : CP20--17342A
Result file : 20PCBS17137009.032.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	31.13	
4.73	4.76	4.77	315791.5	7344.197695			1
5.03	5.05	5.07	308233.9	12973.624703			2
5.20	5.23	5.24	191407.1	6880.417926			3
+ 5.37	5.38	5.41	19848.92	625.327573			4
5.37	5.39	5.41	174433.6	5495.419386			4
5.61	5.63	5.65	639839.7	8315.558336			5
5.82	5.84	5.86	354402.2	8199.055183			6
Height Summation:			**1984108**				
Amount Avg CF:			**8201.378871**	Linear:			
Aroclor-1262					6	27.86	
5.21	5.23	5.24	191407.1	3736.968776			1
+ 5.37	5.38	5.41	19848.92	479.693306			2
5.37	5.39	5.41	174433.6	4215.575976			2
5.61	5.63	5.65	639839.7	6397.720358			3
5.81	5.84	5.85	354402.2	6412.135855			4
5.87	5.88	5.91	92633.59	3383.239112			5
6.25	6.27	6.29	146382.3	4394.504802			6
Height Summation:			**1599098.49**				
Amount Avg CF:			**4756.690813**	Linear:			
Aroclor-1268					6	115.08	
5.81	5.84	5.85	354402.2	2883.575782			1
5.87	5.88	5.91	92633.59	863.835066			2
6.00	6.03	6.04	4717.968	47.18306			3
6.07	6.09	6.11	10682.98	466.008876			4
6.25	6.27	6.29	146382.3	3544.197265			5
6.45	6.47	6.49	28939.21	89.534628			6
Height Summation:			**637758.248**				
Amount Avg CF:			**1315.722446**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 20:32:06
Instrument : CP20--17342B
Result file : 20PCBS17137009B.032.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	79.26	
4.16	4.18	4.19	764962.3	3566.380874			1
4.22	4.24	4.26	1617654	4250.437455			2
4.31	4.33	4.35	2321254	13111.218284			3
4.38	4.40	4.42	1349020	5272.853936			4
4.44	4.46	4.48	3259935	22126.512749			5
4.60	4.62	4.64	1155110	6435.529484			6
Height Summation:			**10467935.3**				
Amount Avg CF:			**9127.155464**	Linear:			
Aroclor-1260					6	12.14	
4.31	4.33	4.35	2321254	8013.219003			1
4.44	4.46	4.48	3259935	9542.942921			2
4.55	4.57	4.59	2014712	7330.337895			3
4.90	4.92	4.94	1452007	6872.832716			4
5.09	5.11	5.13	4175354	8708.663809			5
5.35	5.37	5.39	2821278	8796.422165			6
Height Summation:			**16044540**				
Amount Avg CF:			**8210.736418**	Linear:			
Aroclor-1262					6	37.36	
4.71	4.73	4.75	998420.6	3002.2997			1
4.90	4.92	4.94	1452007	4389.311443			2
5.09	5.11	5.13	4175354	6635.739678			3
5.31	5.33	5.35	683952.1	2623.203338			4
5.35	5.37	5.39	2821278	6722.543148			5
5.73	5.75	5.77	1038038	4570.357934			6
Height Summation:			**11169049.7**				
Amount Avg CF:			**4657.24254**	Linear:			
Aroclor-1268					6	125.78	
5.31	5.33	5.35	683952.1	805.451824			1
5.35	5.37	5.39	2821278	3281.577067			2
5.51	5.53	5.55	31630.33	42.824262			3
5.57	5.59	5.61	20884.77	116.950505			4
5.73	5.75	5.77	1038038	3586.975194			5
5.93	5.95	5.97	215512.7	97.987021			6
Height Summation:			**4811295.9**				
Amount Avg CF:			**1321.960979**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			4970.7599	964.9122		30.94	4	40	
Aroclor-1221			4970.7599	1491.228		** 62.86	3	5	
Aroclor-1232			4970.7599	1198.8303		9.13	4	10	
Aroclor-1242			4970.7599	1198.8303		33.09	4	30	
Aroclor-1248			4970.7599	964.9122		5.86	4	40	
Aroclor-1254			4970.7599	1286.5496		13.15	4	40	
Aroclor-1260			4970.7599	1140.3508		0.11	4	40	
Aroclor-1262			4970.7599	964.9122		2.11	4	40	
Aroclor-1268			4970.7599	964.9122		0.47	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004846ACF DF100 ACA5505 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:32:06 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.032.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		1834	2288
2.197		13628	9451
2.31		1085	789
2.378		2269	2621
2.427		1663	1748
2.496		1311	1407
2.569		858	1221
2.647		6787	4733
2.827		2082	2066
2.924	TCX	44076	29062
3.038		2000	1395
3.193		2220	2193
3.229		12748	6912
3.397		1385	806
3.514		1169	682
3.586		2095	1462
3.668		1030	754
3.696		2039	1820
3.731		3915	3285
3.786		2170	1733
3.855		25208	18346
3.885		6079	5795
3.979		12567	9106
4.005		2263	1388
4.035		3002	2191
4.068		10808	10739
4.11		2287	1785
4.191		5026	3704
4.228		100309	75894
4.248		27862	15892
4.272		43376	32111
4.298		2234	1582
4.339		31098	26861
4.381		203083	194223
4.416		79110	63836
4.456		4509	3077
4.479		8111	6023
4.522		65574	62148
4.574		96423	94240
4.604		29662	18201
4.634		256775	225367
4.681		112483	127012
4.719		54165	42938
4.757		315792	297186
4.808		23880	21084
4.85		223512	216303
4.877		3579	2134
4.904		66747	63839
4.957		450206	571758
5.007		57087	51408
5.05		308234	307109
5.092		17781	13144
5.129		44506	55209
5.166		570104	529113

RT A	Compound A	Height A	Area A
5.189		23191	10054
5.228		191407	170723
5.271		142309	143938
5.376		19849	17965
5.392		174434	139915
5.451		122244	113279
5.491		73318	69704
5.532		12214	11849
5.576		113217	105613
5.602		5671	2960
5.632		639840	608659
5.668		5573	3739
5.838		354402	367280
5.879		92634	186413
6.025		4718	5590
6.087		10683	7717
6.11		62130	55217
6.269		146382	150393
6.314		9691	9609
6.469		28939	30272
6.615	DCB	32545	32761
6.718		759	639
7.692		895	477
8.097		839	849
8.683		3396	4653

LANCASTER LABORATORIES

Sample Number: 9004846ACF DF100 ACA5505 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:32:06 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.032.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.156		5970	5674
2.236		18889	30318
2.363		47036	33699
2.395		3944	2950
2.474		6296	26030
2.57		5218	6467
2.592		3337	2334
2.614	TCX	252311	149071
2.705		5070	9152
2.784		12500	8577
2.827		2188	1393
2.911		15347	7042
2.921		83554	38711
3.106		3474	1702
3.176		8884	10132
3.226		7647	4843
3.263		14740	9919
3.324		13289	12690
3.354		3025	1459
3.384		20354	17619
3.405		5033	2721
3.417		8591	6746
3.493		15826	12186
3.526		193832	114357
3.55		100984	56418
3.567		30010	14382
3.609		2818	1033
3.653		105618	65832
3.675		21416	11630
3.698		31718	21965
3.727		28347	14981
3.742		66380	36478
3.781		22021	19617
3.824		23739	24599
3.853		85611	49448
3.875		967401	624423
3.9		254244	151076
3.919		76480	39134
3.939		219969	135918
3.974		1345625	914173
4.006		581755	374595
4.023		124426	57148
4.084		66334	62460
4.118		419598	324161
4.147		28100	20208
4.175		764962	563895
4.209		323490	289201
4.236		1617654	1571976
4.275		398151	385678
4.328		2321255	1837229
4.365		180866	142931
4.397		1349020	963303
4.421		536975	373832
4.465		3259935	2529429

RT B	Compound B	Height B	Area B
4.518		14910	12312
4.567		2014712	2027473
4.617		1155110	965513
4.658		669123	573644
4.695		3745180	3054355
4.727		998421	672122
4.765		936592	741584
4.825		9454	5609
4.865		202871	139039
4.882		97885	55138
4.917		1452007	1147790
4.941		585250	393255
4.991		869123	773997
5.026		503661	402941
5.056		316126	259590
5.088		289824	179887
5.111		4175355	3389089
5.152		88532	64461
5.183		110204	88435
5.247		5329	4016
5.282		2983	1632
5.302		35561	21215
5.326		683952	569472
5.37		2821278	3039014
5.526		31630	27794
5.57		95900	73275
5.594		20885	12905
5.643		461988	402297
5.75		1038038	869384
5.782		56592	41065
5.949		215513	187908
6.109	DCB	218004	201068
6.285		3438	2939
6.366		2334	4940
6.724		1638	2259
6.826		1842	3217
7.139		1779	1932
7.361		1950	1439
7.546		2473	5848
7.988		1591	2073
8.218		22170	44334

9004846ACF DF100 ACA5505 T 171440031A 10225 SW-846 8082

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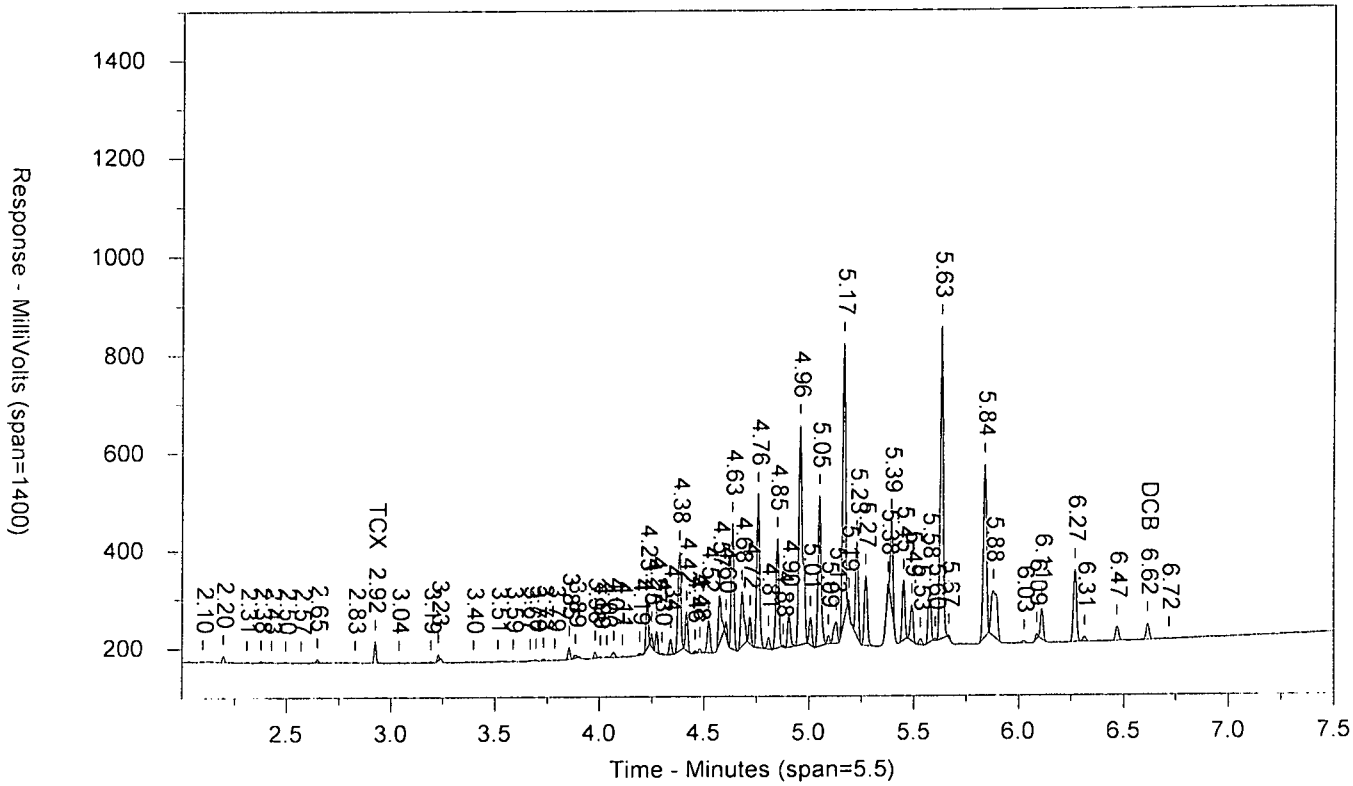

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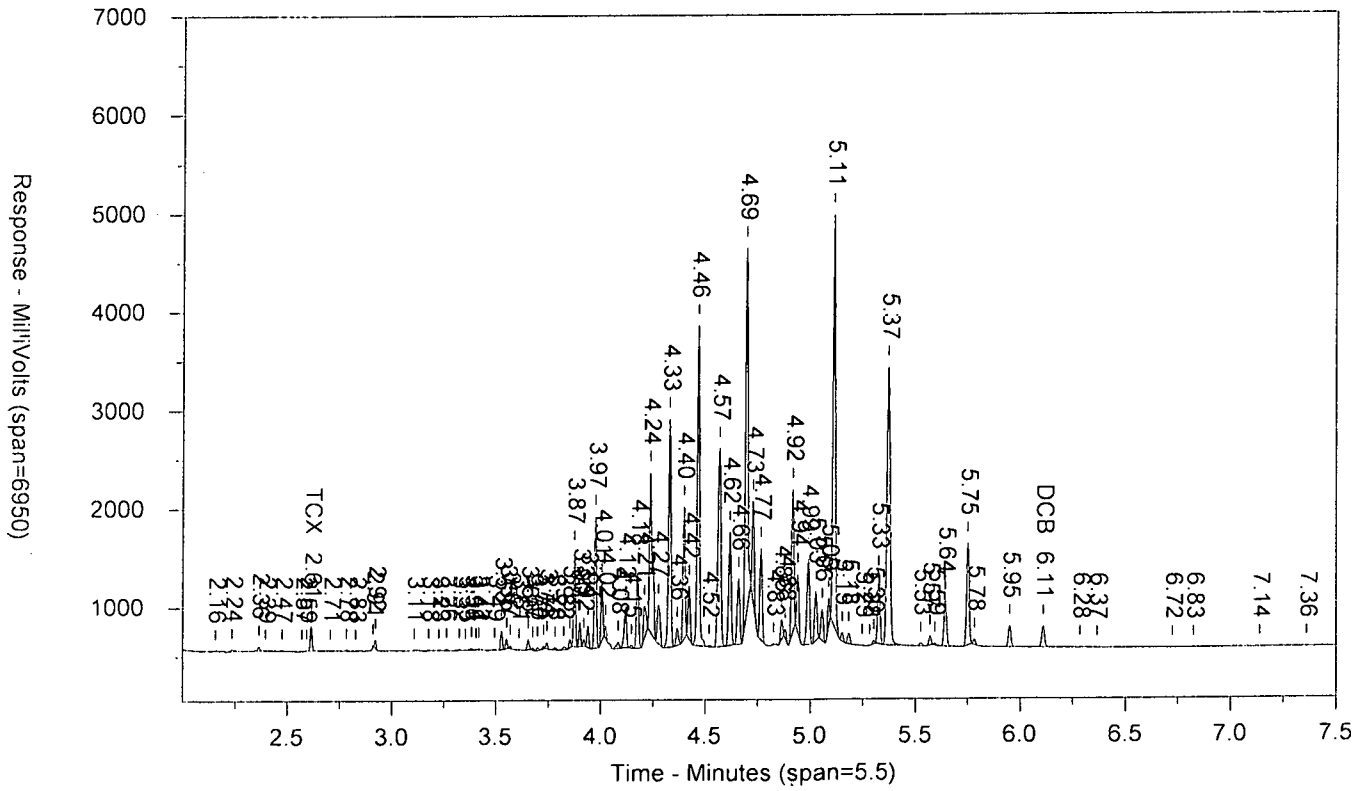

LANCASTER LABORATORIES

Sample Number: 9004846ACF DF100 ACA5505 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 8:32:06 PM Sample Weight: 10.26
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	44076	37.803	TCX	2.614	252311	35.573	TCX
6.615	32545	46.094	DCB	6.109	218004	43.614	DCB

Files:
Area File: 20pcbs17137009.032.RAW
Area File: 20pcbs17137009B.032.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 8:40:50 PM
File Reported On: 5/26/2017 at 8:41:06 PM

9004846ACF DF100 ACA5505 T 171440031A 10225 SW-846 8082

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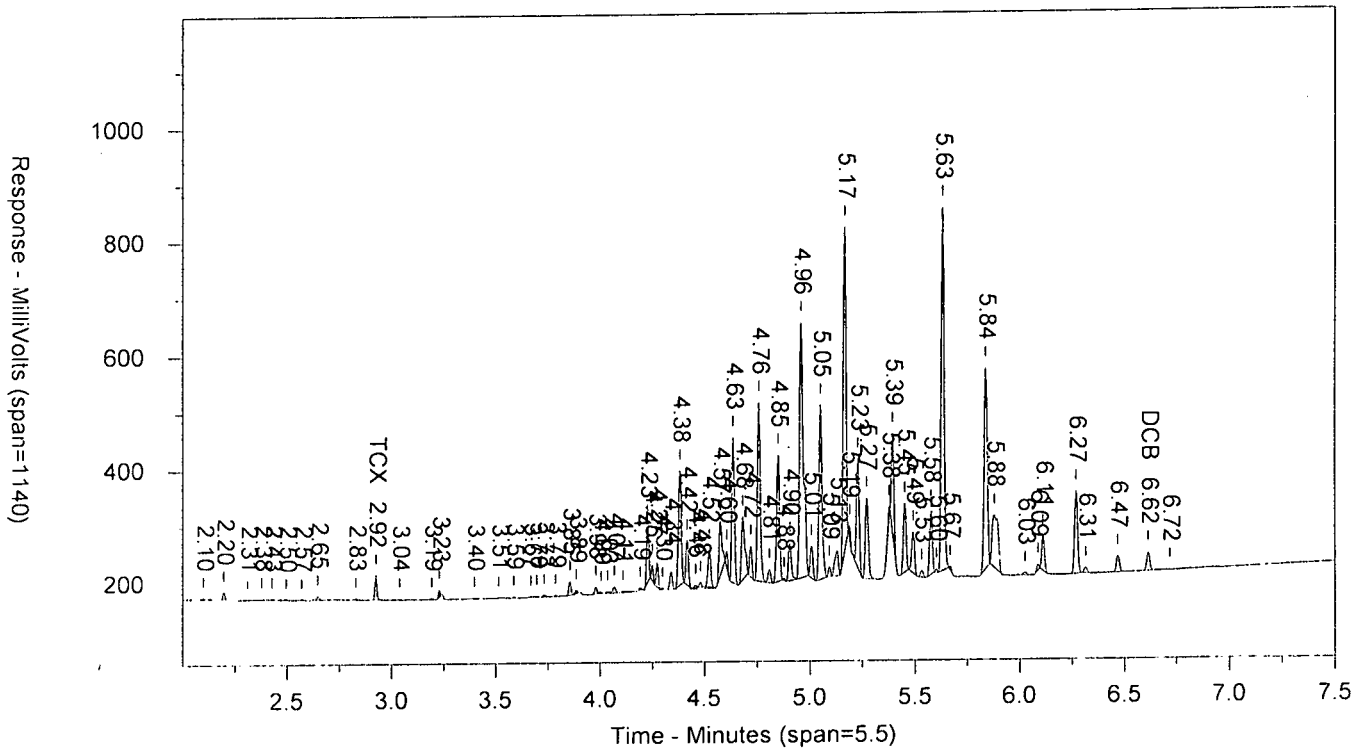

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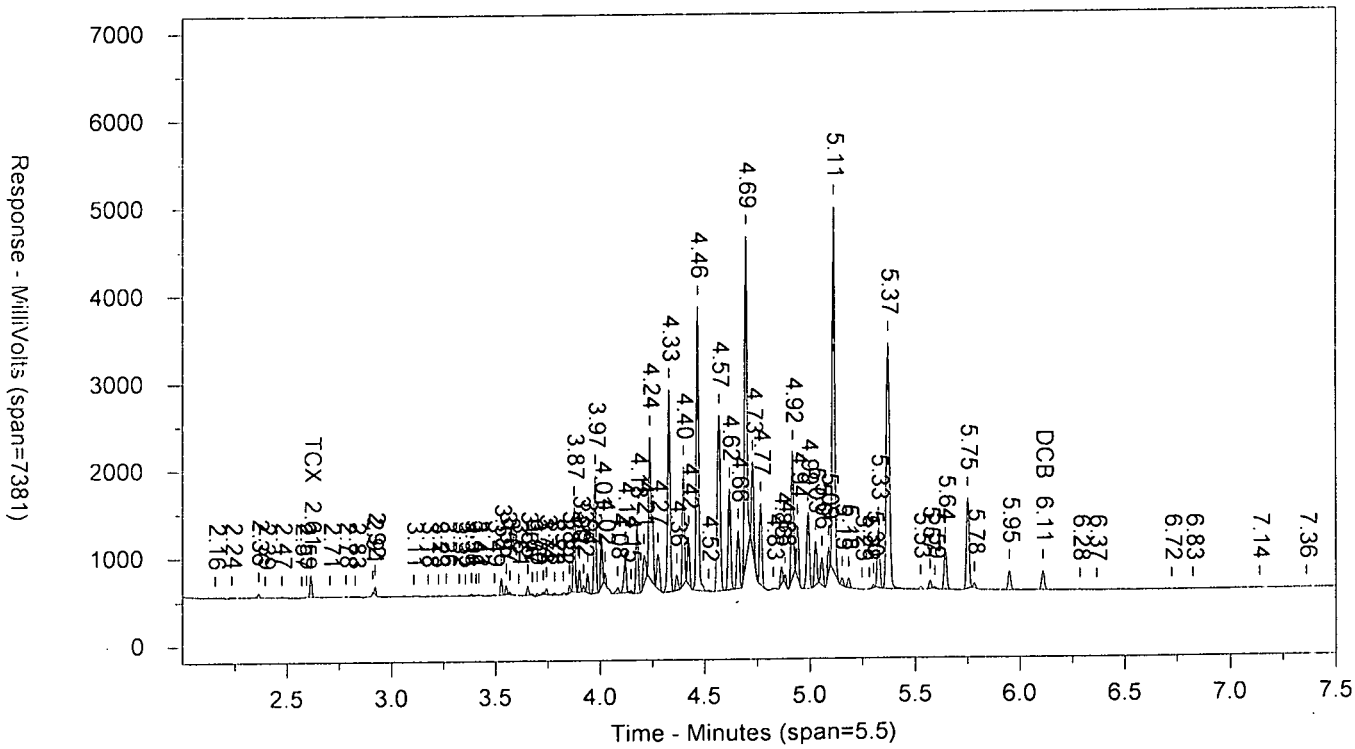

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Data Summary

Sample Name: 9004847 ACF DF100 A5506 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 21:06:30
Instrument	17342A
Result file	20PCBS17137009.035.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 128% (61 - 152) Conc: 37.29075
%SSR(DCB) 161% (48 - 164) Conc: 46.70658

Analysis Report (B)

Injected on	May 26, 2017 21:06:30
Instrument	17342B
Result file	20PCBS17137009B.035.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 125% (61 - 152) Conc: 36.25516
%SSR(DCB) 154% (48 - 164) Conc: 44.63764

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	42674	37.29075
Decachlorobiphenyl	6.58	6.61	6.64	32367	46.70658

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	252390	36.25516
Decachlorobiphenyl	6.08	6.11	6.14	218987	44.63764

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	37.29075				2.82	
☑	Decachlorobiphenyl	A	46.70658				4.53	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**31.05**	
4.73	4.76	4.77	427080.4	10119.788915			1
5.03	5.05	5.07	443304	19010.803354			2
5.20	5.23	5.24	277592.7	10166.763161			3
5.37	5.39	5.41	255747.7	8209.190321			4
5.61	5.63	5.65	971160.1	12859.644202			5
5.82	5.84	5.86	537522.6	12670.157666			6

Height summation: **2912407.5**
Concentration CF: **12172.724603** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**10.52**	
4.31	4.33	4.35	3412325	12001.972444			1
4.44	4.46	4.48	4667652	13921.619035			2
4.55	4.57	4.59	3105763	11513.231119			3
4.90	4.92	4.94	2175830	10493.247439			4
5.09	5.11	5.13	5974884	12697.130735			5
5.35	5.37	5.39	4288577	13623.581188			6

Height summation: **23625031**
Concentration CF: **12375.130327** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<5064.5484	<983.1182			4	
☑	PCB-1221			<5064.5484	<1519.3645			3	
☑	PCB-1232			<5064.5484	<1221.4499			4	
☑	PCB-1242			<5064.5484	<1221.4499			4	
☑	PCB-1248			<5064.5484	<983.1182			4	
☑	PCB-1254			<5064.5484	<1310.8243			4	
☑	PCB-1260	B	12375.130327	5064.5484	1161.867		1.65	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valeria L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by:
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004847** ACF DF100 A5506 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:06:30
Instrument : CP20--17342A
Result file : 20PCBS17137009.035.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 128% (61-152) Conc.: 37.29075
%SSR(DCB) : 161% (48-164) Conc.: 46.70658

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**122.14**	
3.16	3.19	3.20	2635.642	127.557613			1
3.37	3.40	3.41	2021.335	95.803908			2
3.49	3.51	3.53	1590.383	66.953131			3
3.71	3.73	3.75	7223.316	274.46885			4
3.76	3.79	3.80	2931.11	136.168227			5
3.96	3.98	4.00	16205.05	938.892814			6
Height Summation:			**32606.836**				
Amount Avg CF:			**273.307424**	Linear:			
Aroclor-1221					**2**	**13.39**	
3.06	3.07	3.10	1141.097	115.285733			1
3.16	3.19	3.20	2635.642	95.343367			3
Height Summation:			**3776.739**				
Amount Avg CF:			**105.31455**	Linear:			
Aroclor-1232					**6**	**136.70**	
3.16	3.19	3.20	2635.642	106.290257			1
3.38	3.40	3.42	2021.335	202.582547			2
3.49	3.51	3.53	1590.383	145.265157			3
3.71	3.73	3.75	7223.316	608.201092			4
3.77	3.79	3.81	2931.11	314.799582			5
3.96	3.98	4.00	16205.05	2251.454929			6
Height Summation:			**32606.836**				
Amount Avg CF:			**604.765594**	Linear:			
Aroclor-1242					**6**	**123.76**	
3.16	3.19	3.20	2635.642	148.897528			1
3.38	3.40	3.42	2021.335	115.641281			2
3.49	3.51	3.53	1590.383	83.092991			3
3.71	3.73	3.75	7223.316	335.480239			4
3.77	3.79	3.81	2931.11	173.871753			5
3.96	3.98	4.00	16205.05	1175.881098			6
Height Summation:			**32606.836**				
Amount Avg CF:			**338.810815**	Linear:			
Aroclor-1248					**6**	**168.93**	
3.76	3.79	3.80	2931.11	250.801108			1
3.83	3.86	3.87	32007.82	1505.974005			2
3.96	3.98	4.00	16205.05	647.413333			3
4.05	4.07	4.09	16820.53	808.381957			4
4.23	4.23	4.27	124583.8	5054.31147			5
+ 4.23	4.25	4.27	46388.42	1881.958355			5
4.61	4.63	4.65	402611	22281.773722			6
Height Summation:			**595159.31**				
Amount Avg CF:			**5091.442599**	Linear:			
Aroclor-1254					**6**	**75.51**	
4.21	4.23	4.25	124583.8	4286.8196			1
4.55	4.57	4.59	129618.9	4438.006768			2
4.61	4.63	4.65	402611	6825.276586			3
4.73	4.76	4.77	427080.4	24121.03478			4
4.83	4.85	4.87	354157.1	9085.186646			5
5.14	5.16	5.18	871284.4	21758.579781			6
Height Summation:			**2309335.6**				
Amount Avg CF:			**11752.484027**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:06:30
Instrument : CP20--17342B
Result file : 20PCBS17137009B.035.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 125% (61-152) Conc.: 36.25516
%SSR(DCB) : 154% (48-164) Conc.: 44.63764

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**84.23**	
2.88	2.91	2.92	47971.46	421.290977			1
3.21	3.23	3.25	16614.2	117.411091			2
+ 3.40	3.40	3.44	9260.556	65.128933			3
3.40	3.42	3.44	18578.92	130.664427			3
3.47	3.49	3.51	29877.38	177.681964			4
3.63	3.65	3.67	133067.3	941.883877			5
+ 3.72	3.73	3.76	50238.61	414.987185			6
3.72	3.74	3.76	101800.2	840.902613			6
Height Summation:			**347909.46**				
Amount Avg CF:			**438.305825**	Linear:			
Aroclor-1221					**2**	**6.08**	
2.77	2.78	2.81	20444.39	340.211425			1
2.88	2.91	2.92	47971.46	312.169143			3
Height Summation:			**68415.85**				
Amount Avg CF:			**326.190284**	Linear:			
Aroclor-1232					**6**	**94.40**	
2.88	2.91	2.92	47971.46	344.836877			1
3.21	3.23	3.25	16614.2	247.109294			2
+ 3.40	3.40	3.44	9260.556	153.953395			3
3.40	3.42	3.44	18578.92	308.867827			3
3.47	3.49	3.51	29877.38	404.289806			4
3.66	3.68	3.70	35218.56	1745.042261			5
+ 3.73	3.73	3.77	50238.61	949.465298			6
3.73	3.74	3.77	101800.2	1923.933749			6
Height Summation:			**250060.72**				
Amount Avg CF:			**829.013302**	Linear:			
Aroclor-1242					**6**	**86.69**	
2.88	2.91	2.92	47971.46	489.968733			1
3.21	3.23	3.25	16614.2	142.089386			2
+ 3.40	3.40	3.44	9260.556	80.537361			3
3.40	3.42	3.44	18578.92	161.577467			3
3.47	3.49	3.51	29877.38	227.347604			4
3.64	3.65	3.68	133067.3	1229.805024			5
+ 3.73	3.73	3.77	50238.61	518.355231			6
3.73	3.74	3.77	101800.2	1050.360792			6
Height Summation:			**347909.46**				
Amount Avg CF:			**550.191501**	Linear:			
Aroclor-1248					**6**	**170.21**	
+ 3.40	3.40	3.44	9260.556	165.134005			1
3.40	3.42	3.44	18578.92	331.298842			1
3.51	3.53	3.55	241359.6	1525.989607			2
3.63	3.65	3.67	133067.3	673.392872			3
+ 3.72	3.73	3.76	50238.61	352.093984			4
3.72	3.74	3.76	101800.2	713.459987			4
3.86	3.88	3.90	1255992	4647.369282			5
4.22	4.24	4.26	2621938	21942.397557			6
Height Summation:			**4372736.02**				
Amount Avg CF:			**4972.318025**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004847** ACF DF100 A5506 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:06:30
Instrument : CP20--17342A
Result file : 20PCBS17137009.035.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**31.05**	
4.73	4.76	4.77	427080.4	10119.788915			1
5.03	5.05	5.07	443304	19010.803354			2
5.20	5.23	5.24	277592.7	10166.763161			3
+ 5.37	5.38	5.41	39059.43	1253.760228			4
5.37	5.39	5.41	255747.7	8209.190321			4
5.61	5.63	5.65	971160.1	12859.644202			5
5.82	5.84	5.86	537522.6	12670.157666			6
Height Summation:			**2912407.5**				
Amount Avg CF:			**12172.724603**	Linear:			
Aroclor-1262					**6**	**44.61**	
5.21	5.23	5.24	277592.7	5521.884992			1
+ 5.37	5.38	5.41	39059.43	961.768543			2
5.37	5.39	5.41	255747.7	6297.329296			2
5.61	5.63	5.65	971160.1	9893.792358			3
5.81	5.84	5.85	537522.6	9908.79686			4
5.87	5.88	5.91	52810.23	1965.170095			5
+ 5.87	5.89	5.91	38215.73	1422.080717			5
6.25	6.27	6.29	213646.5	6534.841365			6
Height Summation:			**2308479.83**				
Amount Avg CF:			**6686.969161**	Linear:			
Aroclor-1268					**6**	**126.96**	
5.81	5.84	5.85	537522.6	4456.045116			1
5.87	5.88	5.91	52810.23	501.762596			2
+ 5.87	5.89	5.91	38215.73	363.096769			2
6.00	6.02	6.04	7572.377	77.158047			3
6.07	6.09	6.11	15313.58	680.606975			4
6.25	6.27	6.29	213646.5	5270.392897			5
6.45	6.47	6.49	45559.21	143.614548			6
Height Summation:			**872424.497**				
Amount Avg CF:			**1854.93003**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:06:30
Instrument : CP20--17342B
Result file : 20PCBS17137009B.035.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**75.77**	
4.16	4.18	4.19	1031039	4897.57024			1
4.22	4.24	4.26	2621938	7019.211072			2
4.31	4.33	4.35	3412325	19637.611365			3
4.38	4.40	4.42	2145953	8546.050383			4
4.44	4.46	4.48	4667652	32279.023739			5
4.60	4.62	4.64	1776092	10081.944191			6
Height Summation:			**15654999**				
Amount Avg CF:			**13743.568498**	Linear:			
Aroclor-1260					**6**	**10.52**	
4.31	4.33	4.35	3412325	12001.972444			1
4.44	4.46	4.48	4667652	13921.619035			2
4.55	4.57	4.59	3105763	11513.231119			3
4.90	4.92	4.94	2175830	10493.247439			4
5.09	5.11	5.13	5974884	12697.130735			5
5.35	5.37	5.39	4288577	13623.581188			6
Height Summation:			**23625031**				
Amount Avg CF:			**12375.130327**	Linear:			
Aroclor-1262					**6**	**38.18**	
4.71	4.73	4.75	1468958	4500.572672			1
4.90	4.92	4.94	2175830	6701.4771			2
5.09	5.11	5.13	5974884	9674.831417			3
5.31	5.33	5.35	985773.4	3852.13283			4
5.35	5.37	5.39	4288577	10411.632213			5
5.73	5.75	5.77	1463164	6563.68694			6
Height Summation:			**16357186.4**				
Amount Avg CF:			**6950.722195**	Linear:			
Aroclor-1268					**6**	**125.66**	
5.31	5.33	5.35	985773.4	1182.793332			1
5.35	5.37	5.39	4288577	5082.38813			2
5.51	5.53	5.55	53870.26	74.311004			3
5.57	5.59	5.61	30083.38	171.639375			4
5.73	5.75	5.77	1463164	5151.408834			5
5.93	5.95	5.97	315414	146.114913			6
Height Summation:			**7136882.04**				
Amount Avg CF:			**1968.109265**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			5064.5484	983.1182		** 46.37	4	40	
Aroclor-1221			5064.5484	1519.3645		** 102.37	3	5	
Aroclor-1232			5064.5484	1221.4499		31.28	4	10	
Aroclor-1242			5064.5484	1221.4499		** 47.55	4	30	
Aroclor-1248			5064.5484	983.1182		2.37	4	40	
Aroclor-1254			5064.5484	1310.8243		15.62	4	40	
Aroclor-1260			5064.5484	1161.867		1.65	4	40	
Aroclor-1262			5064.5484	983.1182		3.87	4	40	
Aroclor-1268			5064.5484	983.1182		5.92	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004847ACF DF100 ACA5506 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:06:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.035.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.038		2408	2623
2.095		2001	3011
2.197		27915	18555
2.308		1710	1552
2.379		2005	2346
2.424		2296	2265
2.568		1663	1233
2.626		1058	624
2.647		12423	8070
2.828		2785	2711
2.924	TCX	42674	27421
3.036		3130	2029
3.075		1141	978
3.191		2636	2839
3.229		19516	10119
3.243		9432	3893
3.397		2021	1352
3.467		1329	1257
3.514		1590	977
3.588		3596	2437
3.623		725	464
3.694		4702	4963
3.733		7223	6025
3.787		2931	2478
3.856		32008	23506
3.885		11001	9724
3.905		6078	2879
3.979		16205	11000
4.004		3589	2406
4.034		6318	4198
4.069		16821	17748
4.11		3636	2942
4.139		974	509
4.191		6366	4525
4.229		124584	94129
4.249		46388	26368
4.272		72649	53439
4.339		47802	40498
4.382		274117	271738
4.417		127245	105580
4.457		8096	6038
4.48		12475	9455
4.522		101727	96032
4.574		129619	130187
4.605		54559	34374
4.635		402611	356906
4.681		156799	177452
4.719		81594	62393
4.757		427080	420430
4.808		39452	34612
4.849		354157	339739
4.877		6284	3386
4.905		101871	87719
4.957		670557	824328

RT A	Compound A	Height A	Area A
5.007		82816	71799
5.05		443304	452368
5.093		31194	22490
5.129		65858	83069
5.165		871284	798815
5.188		33176	16403
5.228		277593	245024
5.271		201965	202688
5.376		39059	33586
5.393		255748	197592
5.451		174431	162401
5.492		107820	99297
5.532		18344	17100
5.576		163870	151159
5.603		11580	6739
5.633		971160	892642
5.668		9222	5796
5.722		2106	1899
5.838		537523	541291
5.877		52810	54900
5.892		38216	26505
6.023		7572	10173
6.088		15314	12204
6.111		90891	79034
6.268		213647	217402
6.313		15384	14366
6.468		45559	45488
6.554		653	782
6.614	DCB	32367	36483
8.037		1362	3647
8.33		720	1831
8.681		3956	5576

LANCASTER LABORATORIES

Sample Number: 9004847ACF DF100 ACA5506 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:06:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.035.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.113		4199	6470
2.156		15455	11703
2.238		18229	34639
2.319		3317	3061
2.364		87691	62666
2.392		2829	1839
2.45		2246	2044
2.477		3085	2070
2.568		5194	6227
2.614	TCX	252390	155319
2.784		20444	11558
2.91		47971	20967
2.921		111722	50365
3.001		3321	3935
3.105		15060	37083
3.178		11056	11348
3.201		4251	2843
3.226		16614	16495
3.264		29557	19097
3.31		4215	2170
3.325		7887	4712
3.384		35559	31064
3.404		9261	4299
3.419		18579	19917
3.493		29877	22628
3.527		241360	143731
3.551		164244	91504
3.568		75251	36519
3.586		7077	3555
3.654		133067	83085
3.676		35219	18743
3.698		58235	39706
3.727		50239	25961
3.743		101800	54496
3.782		33341	29482
3.829		40936	41223
3.854		139478	81195
3.876		1255992	837687
3.901		407345	241260
3.921		139400	71360
3.939		307089	185559
3.974		1816891	1262167
4.006		940195	607582
4.024		168507	74246
4.085		103344	86079
4.119		614671	491288
4.147		48145	35533
4.176		1031039	773576
4.209		541052	445485
4.236		2621938	2423896
4.276		547160	536057
4.328		3412325	2667261
4.365		293905	233585
4.398		2145953	1534048

RT B	Compound B	Height B	Area B
4.422		821732	553140
4.464		4667653	3659719
4.518		22907	18059
4.567		3105763	2949423
4.617		1776092	1486738
4.658		1013022	864130
4.695		5546357	4761910
4.728		1468958	989597
4.766		1360476	1059970
4.824		16771	9473
4.866		281932	186696
4.882		148112	81433
4.917		2175830	1649532
4.941		928168	648391
4.99		1233620	1127901
5.027		722675	578471
5.056		471760	386311
5.088		412883	257504
5.111		5974884	4922790
5.152		132684	94791
5.184		162114	137217
5.248		9099	6130
5.303		51913	31993
5.326		985773	823350
5.37		4288577	4465493
5.526		53870	46271
5.571		152067	117209
5.594		30083	18675
5.615		2762	1266
5.643		700778	576840
5.722		1984	931
5.75		1463165	1286881
5.782		86879	65667
5.949		315414	274996
6.108	DCB	218987	198323
6.283		8110	5910
6.31		13346	12510
6.588		3630	4039
6.717		1989	2384
7.01		3019	4167
7.308		1848	2481
7.431		1764	2217
7.56		4598	9154
7.597		2761	3612
8.218		21713	45472
8.436		2260	3912

9004847ACF DF100 ACA5506 T 171440031A 10225 SW-846 8082

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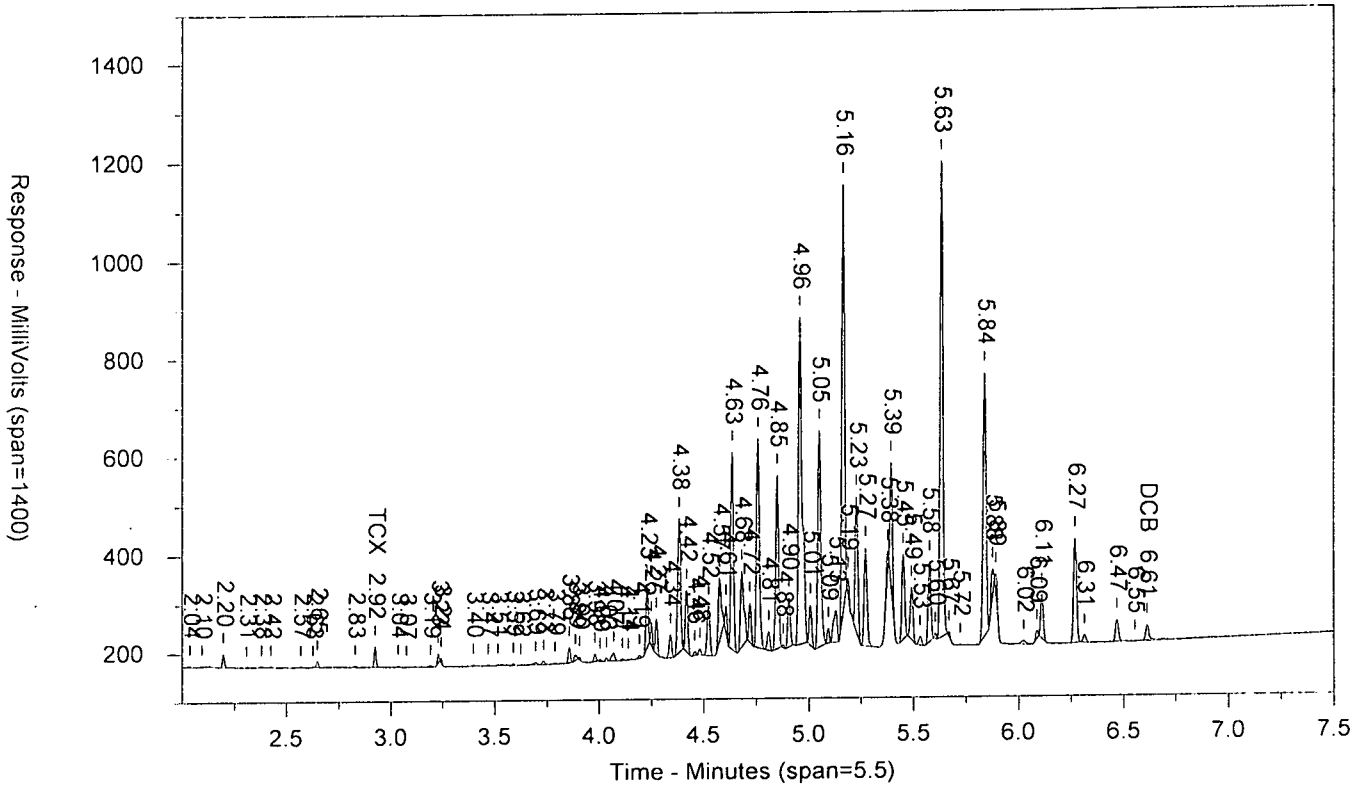

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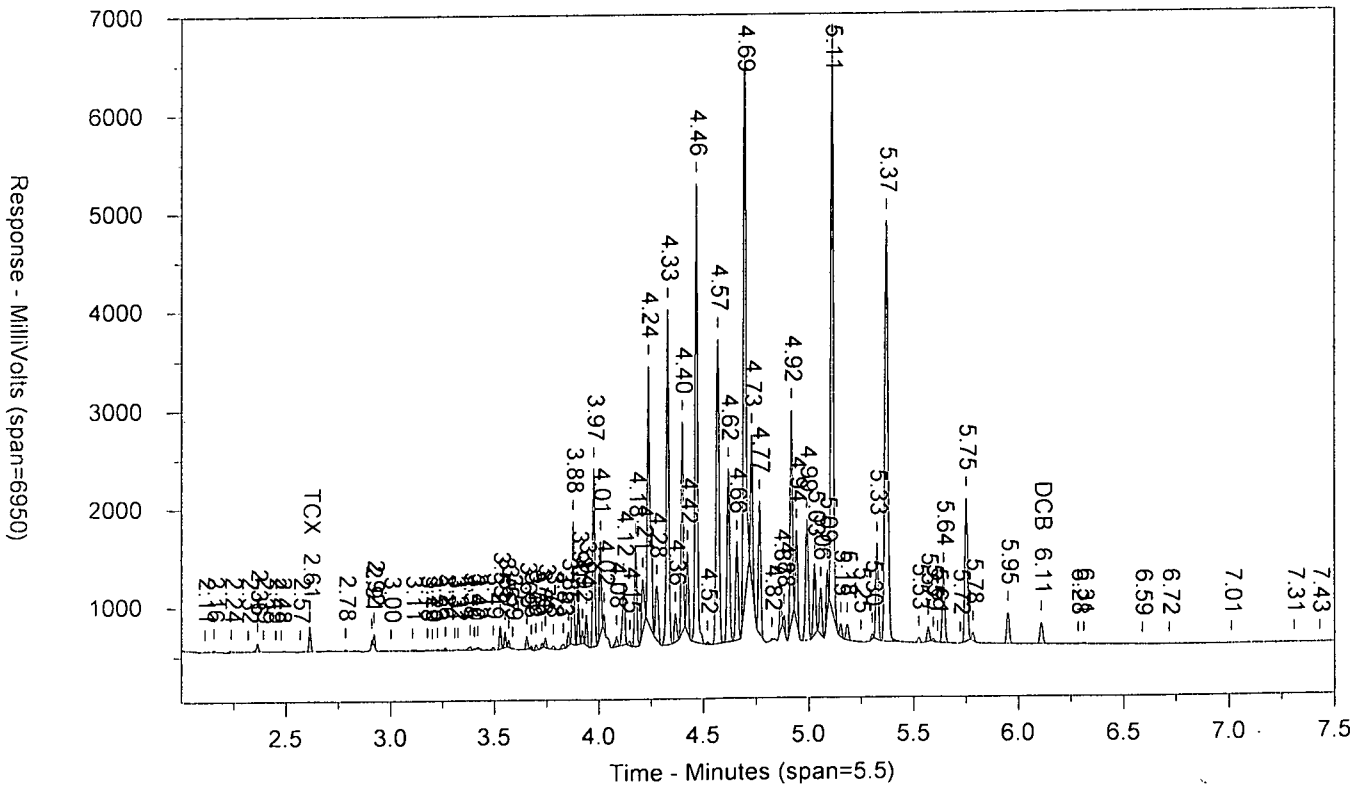

LANCASTER LABORATORIES

Sample Number: 9004847ACF DF100 ACA5506 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:06:30 PM Sample Weight: 10.07
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	42674	37.291	TCX	2.614	252390	36.255	TCX
6.614	32367	46.707	DCB	6.108	218987	44.638	DCB

Files:
Area File: 20pcbs17137009.035.RAW
Area File: 20pcbs17137009B.035.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 9:15:14 PM
File Reported On: 5/26/2017 at 9:15:33 PM

9004847ACF DF100 ACA5506 T 171440031A 10225 SW-846 8082

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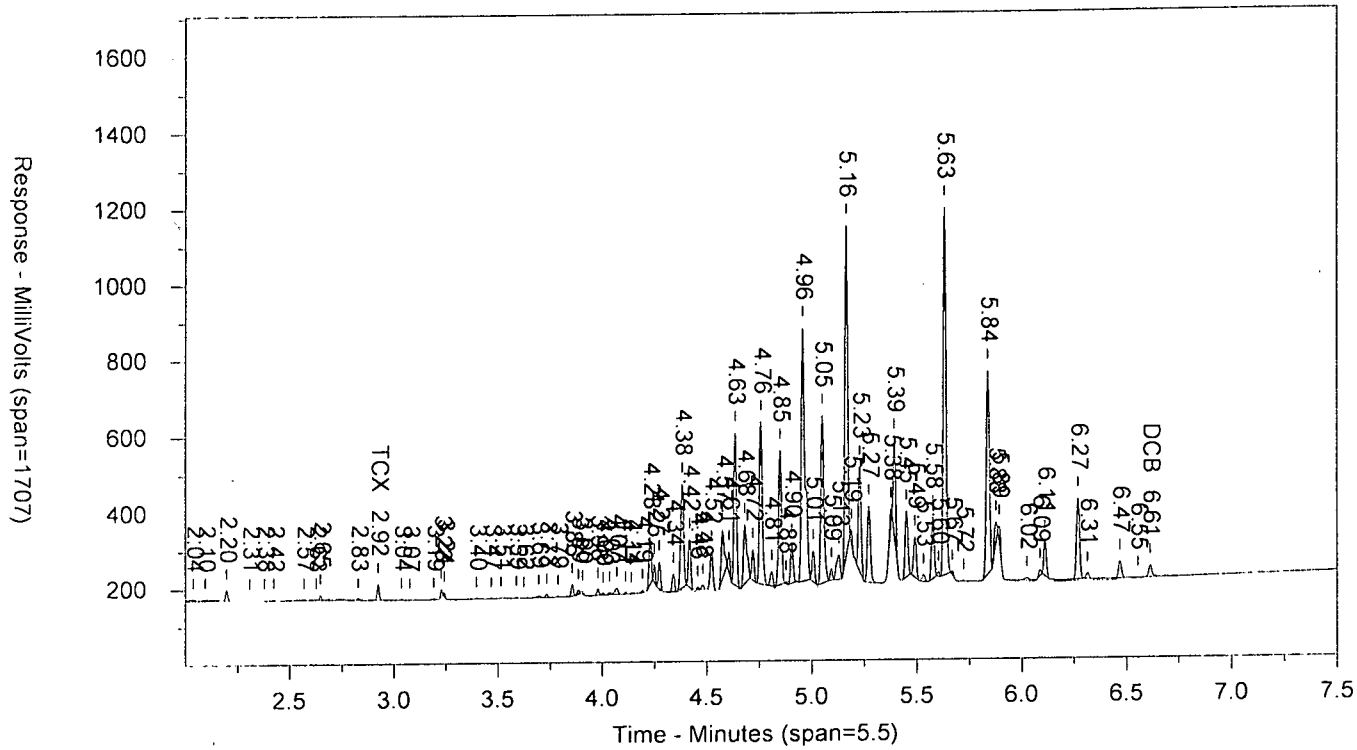

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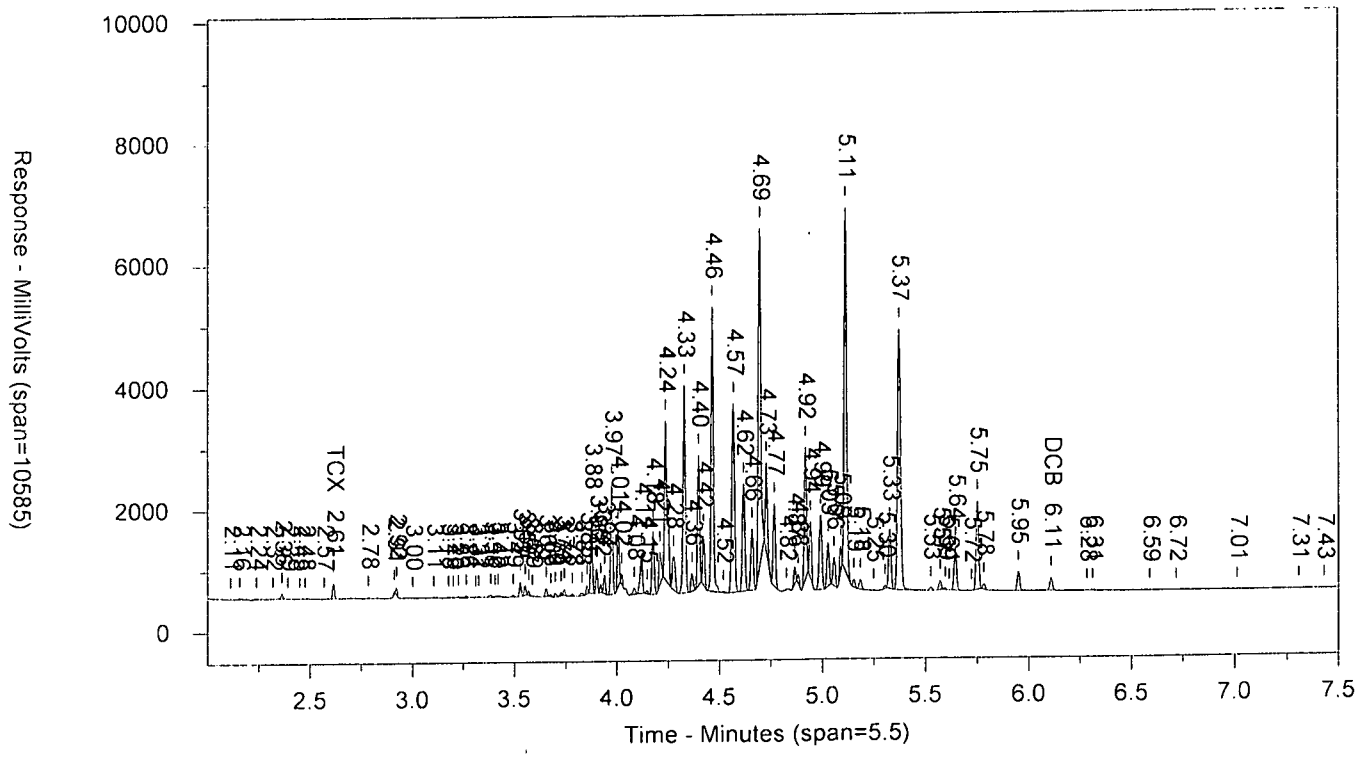

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Data Summary

Sample Name: 9004848 ACF DF200 A5507 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.01 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 21:17:51
Instrument	17342A
Result file	20PCBS17137009.036.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 125% (61 - 152) Conc: 36.58752
%SSR(DCB) * 167% (48 - 164) Conc: 48.86784

Analysis Report (B)

Injected on	May 26, 2017 21:17:51
Instrument	17342B
Result file	20PCBS17137009B.036.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 126% (61 - 152) Conc: 36.9413
%SSR(DCB) * 170% (48 - 164) Conc: 49.61866

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	20810	36.58752	Tetrachloro-m-xylene	2.59	2.61	2.65	127817	36.9413
Decachlorobiphenyl	6.58	6.61	6.64	16831	48.86784	Decachlorobiphenyl	6.08	6.11	6.14	120987	49.61866

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	36.9413				0.96	
☑ Decachlorobiphenyl	B	49.61866				1.52	

Multiple Component Data

Aroclor-1260 (%RSD 48.16)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.76	4.77	397552.8	18953.176996		1
5.03	5.05	5.07	496595.6	42847.65668		2
5.20	5.23	5.24	212315.6	15645.230272		3
5.37	5.39	5.41	194848.3	12583.764948		4
5.61	5.63	5.65	805839.8	21469.020146		5
5.82	5.84	5.86	460864.7	21856.676469		6

Height summation: **2568016.8**
Concentration CF: **22225.920919** L:

Aroclor-1260 (%RSD 14.66)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	3220633	22791.287768		1
4.44	4.46	4.48	4409492	26460.937282		2
4.55	4.57	4.59	2723838	20315.876974		3
4.90	4.92	4.94	1728321	16770.065125		4
5.09	5.11	5.13	5084358	21738.902989		5
5.35	5.37	5.39	3559224	22748.815166		6

Height summation: **20725866**
Concentration CF: **21804.314217** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<10189.8098	<1978.0219			4	
☑ PCB-1221			<10189.8098	<3056.9429			3	
☑ PCB-1232			<10189.8098	<2457.5424			4	
☑ PCB-1242			<10189.8098	<2457.5424			4	
☑ PCB-1248			<10189.8098	<1978.0219			4	
☑ PCB-1254			<10189.8098	<2637.3625			4	
☑ PCB-1260	A	22225.920919	10189.8098	2337.6622		1.92	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by:
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004848** ACF DF200 A5507 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.01 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:17:51
Instrument : CP20--17342A
Result file : 20PCBS17137009.036.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 125% (61-152) Conc.: 36.58752
%SSR(DCB) : *167% (48-164) Conc.: 48.86784

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**143.67**	
3.16	3.19	3.20	4409.835	429.405588			1
3.37	3.40	3.41	1957.525	186.671335			2
+ 3.49	3.49	3.53	729.7219	61.809031			3
3.49	3.51	3.53	1980.796	167.777727			3
3.71	3.73	3.75	8213.484	627.927137			4
3.76	3.79	3.80	3732.824	348.904498			5
3.96	3.98	4.00	28124.53	3278.50841			6
Height Summation:			**48418.994**				
Amount Avg CF:			**839.865783**	Linear:			
Aroclor-1221					**1**		
3.16	3.19	3.20	4409.835	320.960653			3
Height Summation:			**4409.835**				
Amount Avg CF:			**320.960653**	Linear:			
Aroclor-1232					**6**	**159.24**	
3.16	3.19	3.20	4409.835	357.811889			1
3.38	3.40	3.42	1957.525	394.726638			2
3.49	3.51	3.53	1980.796	364.019686			3
+ 3.49	3.53	3.53	1686.408	309.918695			3
3.71	3.73	3.75	8213.484	1391.436479			4
3.77	3.79	3.81	3732.824	806.61247			5
3.96	3.98	4.00	28124.53	7861.828112			6
Height Summation:			**48418.994**				
Amount Avg CF:			**1862.739213**	Linear:			
Aroclor-1242					**6**	**145.34**	
3.16	3.19	3.20	4409.835	501.243551			1
3.38	3.40	3.42	1957.525	225.323923			2
3.49	3.51	3.53	1980.796	208.222572			3
+ 3.49	3.53	3.53	1686.408	177.276313			3
3.71	3.73	3.75	8213.484	767.508392			4
3.77	3.79	3.81	3732.824	445.512422			5
3.96	3.98	4.00	28124.53	4106.044919			6
Height Summation:			**48418.994**				
Amount Avg CF:			**1042.309297**	Linear:			
Aroclor-1248					**6**	**159.23**	
3.76	3.79	3.80	3732.824	642.628875			1
3.83	3.85	3.87	54975.42	5204.216127			2
3.96	3.98	4.00	28124.53	2260.694751			3
4.05	4.07	4.09	23009.79	2224.92297			4
4.23	4.23	4.27	161546.3	13186.296369			5
+ 4.23	4.25	4.27	63270.44	5164.480853			5
4.61	4.64	4.65	481734.3	53641.026676			6
Height Summation:			**753123.164**				
Amount Avg CF:			**12859.964295**	Linear:			
Aroclor-1254					**6**	**61.39**	
4.21	4.23	4.25	161546.3	11183.971161			1
4.55	4.57	4.59	186669.8	12859.351855			2
4.61	4.64	4.65	481734.3	16431.135511			3
4.73	4.76	4.77	397552.8	45175.867338			4
4.83	4.85	4.87	426838.3	22030.617558			5
5.14	5.17	5.18	890166.3	44726.729612			6
Height Summation:			**2544507.8**				
Amount Avg CF:			**25401.278839**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:17:51
Instrument : CP20--17342B
Result file : 20PCBS17137009B.036.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 126% (61-152) Conc.: 36.9413
%SSR(DCB) : *170% (48-164) Conc.: 49.61866

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**113.55**	
+ 2.88	2.88	2.92	10945.18	193.396014			1
2.88	2.91	2.92	21360.17	377.423828			1
3.21	3.23	3.25	21337.07	303.382034			2
+ 3.40	3.40	3.44	12919.91	182.81919			3
3.40	3.42	3.44	13683.32	193.621587			3
3.47	3.49	3.51	33187.64	397.102476			4
3.63	3.65	3.67	220271.6	3136.966733			5
+ 3.72	3.73	3.76	66119.37	1098.88227			6
3.72	3.74	3.76	139096.8	2311.743252			6
Height Summation:			**448936.6**				
Amount Avg CF:			**1120.039985**	Linear:			
Aroclor-1221					**2**	**54.16**	
2.77	2.78	2.81	18721.62	626.821021			1
+ 2.88	2.88	2.92	10945.18	143.303017			3
2.88	2.91	2.92	21360.17	279.664363			3
Height Summation:			**40081.79**				
Amount Avg CF:			**453.242692**	Linear:			
Aroclor-1232					**6**	**111.17**	
+ 2.88	2.88	2.92	10945.18	158.299325			1
2.88	2.91	2.92	21360.17	308.930552			1
3.21	3.23	3.25	21337.07	638.513107			2
+ 3.40	3.40	3.44	12919.91	432.152555			3
3.40	3.42	3.44	13683.32	457.687531			3
3.47	3.49	3.51	33187.64	903.549685			4
+ 3.66	3.67	3.70	30904.48	3080.925406			5
3.66	3.70	3.70	37568.44	3745.268041			5
+ 3.73	3.73	3.77	66119.37	2514.175426			6
3.73	3.74	3.77	139096.8	5289.127171			6
Height Summation:			**266233.44**				
Amount Avg CF:			**1890.512681**	Linear:			
Aroclor-1242					**6**	**115.96**	
+ 2.88	2.88	2.92	10945.18	224.922928			1
2.88	2.91	2.92	21360.17	438.950476			1
3.21	3.23	3.25	21337.07	367.14902			2
+ 3.40	3.40	3.44	12919.91	226.071184			3
3.40	3.42	3.44	13683.32	239.42925			3
3.47	3.49	3.51	33187.64	508.100509			4
3.64	3.65	3.68	220271.6	4095.894984			5
+ 3.64	3.67	3.68	30904.48	574.66103			5
+ 3.73	3.73	3.77	66119.37	1372.599911			6
3.73	3.74	3.77	139096.8	2887.569184			6
Height Summation:			**448936.6**				
Amount Avg CF:			**1422.848904**	Linear:			
Aroclor-1248					**6**	**162.20**	
+ 3.40	3.40	3.44	12919.91	463.536919			1
3.40	3.42	3.44	13683.32	490.92633			1
3.51	3.53	3.55	408878.4	5201.235951			2
3.63	3.65	3.67	220271.6	2242.751034			3
+ 3.72	3.73	3.76	66119.37	932.34165			4
3.72	3.74	3.76	139096.8	1961.388017			4
3.86	3.88	3.90	1685705	12549.524583			5
4.22	4.24	4.26	3206551	53991.476225			6
Height Summation:			**5674186.12**				
Amount Avg CF:			**12739.550357**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004848** ACF DF200 A5507 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.01 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:17:51
Instrument : CP20--17342A
Result file : 20PCBS17137009.036.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**48.16**	
4.73	4.76	4.77	397552.8	18953.176996			1
5.03	5.05	5.07	496595.6	42847.65668			2
5.20	5.23	5.24	212315.6	15645.230272			3
+ 5.37	5.38	5.41	68393.05	4416.985241			4
5.37	5.39	5.41	194848.3	12583.764948			4
5.61	5.63	5.65	805839.8	21469.020146			5
5.82	5.84	5.86	460864.7	21856.676469			6
Height Summation:			**2568016.8**				
Amount Avg CF:			**22225.920919**	Linear:			
Aroclor-1262					**6**	**47.89**	
5.21	5.23	5.24	212315.6	8497.410717			1
+ 5.37	5.38	5.41	68393.05	3388.301339			2
5.37	5.39	5.41	194848.3	9653.097147			2
5.61	5.63	5.65	805839.8	16517.566436			3
5.81	5.84	5.85	460864.7	17093.186438			4
5.87	5.87	5.91	39583.11	2963.585012			5
+ 5.87	5.89	5.91	32145.8	2406.754069			5
6.25	6.27	6.29	190979.6	11753.078452			6
Height Summation:			**1904431.11**				
Amount Avg CF:			**11079.654034**	Linear:			
Aroclor-1268					**6**	**128.15**	
5.81	5.84	5.85	460864.7	7686.908009			1
5.87	5.87	5.91	39583.11	756.685699			2
+ 5.87	5.89	5.91	32145.8	614.511269			2
6.00	6.02	6.04	5786.766	118.63431			3
6.07	6.09	6.11	14365.5	1284.593733			4
6.25	6.27	6.29	190979.6	9478.935711			5
6.45	6.47	6.49	38998.43	247.340232			6
Height Summation:			**750578.106**				
Amount Avg CF:			**3262.182949**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:17:51
Instrument : CP20--17342B
Result file : 20PCBS17137009B.036.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**58.38**	
4.16	4.18	4.19	1541584	14733.236593			1
4.22	4.24	4.26	3206551	17271.474856			2
4.31	4.33	4.35	3220633	37291.074762			3
4.38	4.40	4.42	2724202	21827.798655			4
4.44	4.46	4.48	4409492	61353.009339			5
4.60	4.62	4.64	2298386	26249.871835			6
Height Summation:			**17400848**				
Amount Avg CF:			**29787.74434**	Linear:			
Aroclor-1260					**6**	**14.66**	
4.31	4.33	4.35	3220633	22791.287768			1
4.44	4.46	4.48	4409492	26460.937282			2
4.55	4.57	4.59	2723838	20315.876974			3
4.90	4.92	4.94	1728321	16770.065125			4
5.09	5.11	5.13	5084358	21738.902989			5
5.35	5.37	5.39	3559224	22748.815166			6
Height Summation:			**20725866**				
Amount Avg CF:			**21804.314217**	Linear:			
Aroclor-1262					**6**	**39.69**	
4.71	4.73	4.75	1125384	6937.204947			1
4.90	4.92	4.94	1728321	10710.145554			2
5.09	5.11	5.13	5084358	16564.389704			3
5.31	5.33	5.35	824636.9	6483.541755			4
5.35	5.37	5.39	3559224	17385.46521			5
5.73	5.75	5.77	1308252	11807.872304			6
Height Summation:			**13630175.9**				
Amount Avg CF:			**11648.103246**	Linear:			
Aroclor-1268					**6**	**126.50**	
5.31	5.33	5.35	824636.9	1990.764673			1
5.35	5.37	5.39	3559224	8486.631126			2
5.51	5.52	5.55	42094.96	116.831391			3
5.57	5.59	5.61	25974.79	298.172597			4
5.73	5.75	5.77	1308252	9267.227132			5
5.93	5.95	5.97	270437.6	252.061223			6
Height Summation:			**6030620.25**				
Amount Avg CF:			**3401.948024**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			10189.8098	1978.0219		28.59	4	40	
Aroclor-1221			10189.8098	3056.9429		34.17	3	5	
Aroclor-1232			10189.8098	2457.5424		1.48	4	10	
Aroclor-1242			10189.8098	2457.5424		30.87	4	30	
Aroclor-1248			10189.8098	1978.0219		0.94	4	40	
Aroclor-1254			10189.8098	2637.3625		15.90	4	40	
Aroclor-1260			10189.8098	2337.6622		1.92	4	40	
Aroclor-1262			10189.8098	1978.0219		5.00	4	40	
Aroclor-1268			10189.8098	1978.0219		4.19	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004848ACF DF200 ADA5507 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:17:51 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.036.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.036		2399	3199
2.098		3385	4976
2.197		29878	20508
2.31		10308	7295
2.377		2577	3033
2.425		4109	3593
2.501		1204	1290
2.551		1344	944
2.647		18378	12962
2.774		4229	3187
2.824		958	475
2.923	TCX	20810	13300
3.036		2890	1908
3.191		4410	4432
3.229		37799	34794
3.363		2057	1669
3.398		1958	1373
3.468		1366	924
3.49		730	541
3.512		1981	1018
3.53		1686	1112
3.588		4393	3189
3.624		743	888
3.667		11222	7565
3.693		4906	3689
3.731		8213	6957
3.786		3733	2906
3.855		54975	41330
3.883		16340	13533
3.903		5487	2755
3.979		28125	20152
4.001		3803	2330
4.034		7363	5068
4.068		23010	23748
4.11		4175	3373
4.163		2613	2613
4.191		12165	9341
4.228		161546	118470
4.248		63270	37134
4.271		91434	67890
4.299		1857	1121
4.339		56597	48102
4.382		345654	341380
4.415		163550	131293
4.456		8695	6103
4.479		17018	12135
4.521		124100	120328
4.574		186670	171446
4.605		78644	51989
4.635		481734	426479
4.68		131145	150134
4.718		94361	72839
4.757		397553	389429
4.807		46167	41981

RT A	Compound A	Height A	Area A
4.849		426838	414978
4.877		5708	3105
4.905		87133	77553
4.956		625277	779047
5.006		65545	55729
5.049		496596	494834
5.092		35314	26441
5.128		61916	79862
5.165		890166	961833
5.227		212316	187642
5.271		171733	178642
5.375		68393	46701
5.392		194848	146302
5.45		138235	131898
5.49		94634	87645
5.532		16890	16308
5.576		167263	152563
5.601		13890	7800
5.631		805840	757082
5.667		9846	6566
5.724		1738	1814
5.839		460865	461577
5.875		39583	47359
5.89		32146	21940
6.022		5787	7416
6.086		14366	11027
6.111		71910	67973
6.267		190980	189614
6.312		13112	13403
6.468		38998	40820
6.614	DCB	16831	16271
6.691		965	899
7.488		821	1570
7.676		696	1433
8.214		629	1668
8.397		561	592
8.492		787	587
8.681		2978	3509

LANCASTER LABORATORIES

Sample Number: 9004848ACF DF200 ADA5507 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:17:51 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.036.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.116		3450	3590
2.156		8602	6580
2.238		19181	28840
2.364		114500	76845
2.391		1849	900
2.414		4550	4904
2.476		3096	2395
2.493		40164	33264
2.544		33221	89065
2.593		6286	14709
2.614	TCX	127817	75966
2.704		3886	4098
2.784		18722	15811
2.881		10945	8103
2.911		21360	9256
2.921		189199	93653
2.986		13430	7839
3.083		2398	1385
3.105		7345	3348
3.179		17725	18159
3.226		21337	16936
3.264		33305	22840
3.324		106062	69261
3.355		2690	1495
3.384		46484	38610
3.404		12920	6205
3.418		13683	13903
3.492		33188	24328
3.526		408878	239887
3.55		209623	119466
3.567		71719	34059
3.653		220272	137650
3.675		30904	16110
3.697		37568	19463
3.709		21367	8611
3.726		66119	32218
3.742		139097	75423
3.781		40359	35516
3.823		71994	64764
3.852		198005	114010
3.875		1685705	1110118
3.9		549752	328225
3.92		172906	88338
3.938		346704	206162
3.973		2235412	1553309
4.006		1165259	774131
4.023		231645	104140
4.084		131983	105428
4.119		801400	620768
4.146		31453	23524
4.175		1541584	1108392
4.208		691818	527551
4.235		3206551	2732169
4.275		494670	509179

RT B	Compound B	Height B	Area B
4.327		3220633	2593362
4.365		359523	274907
4.397		2724203	1981761
4.421		726207	495809
4.464		4409492	3528383
4.519		19436	17004
4.566		2723838	2737264
4.616		2298386	1887843
4.658		945846	799538
4.695		5488309	4689089
4.727		1125384	749451
4.766		1188498	920025
4.825		40690	52668
4.865		224403	147520
4.882		156959	96030
4.916		1728321	1336931
4.94		1012022	727611
4.991		1036056	927437
5.026		643671	523909
5.055		407394	325005
5.088		481418	316623
5.111		5084358	4107688
5.152		116793	84446
5.183		132888	111329
5.248		7242	4814
5.28		4668	2628
5.302		43160	25829
5.326		824637	679731
5.37		3559224	3922343
5.525		42095	36599
5.57		133480	104419
5.594		25975	16297
5.644		558652	504273
5.723		2325	960
5.75		1308252	1118103
5.782		78530	57135
5.949		270438	249898
6.108	DCB	120987	104287
6.283		5250	3754
6.313		3904	3931
6.885		2036	2885
7.017		2647	4008
8.114		2285	3564
8.221		20938	38587

9004848ACF DF200 ADA5507 T 171440031A 10225 SW-846 8082

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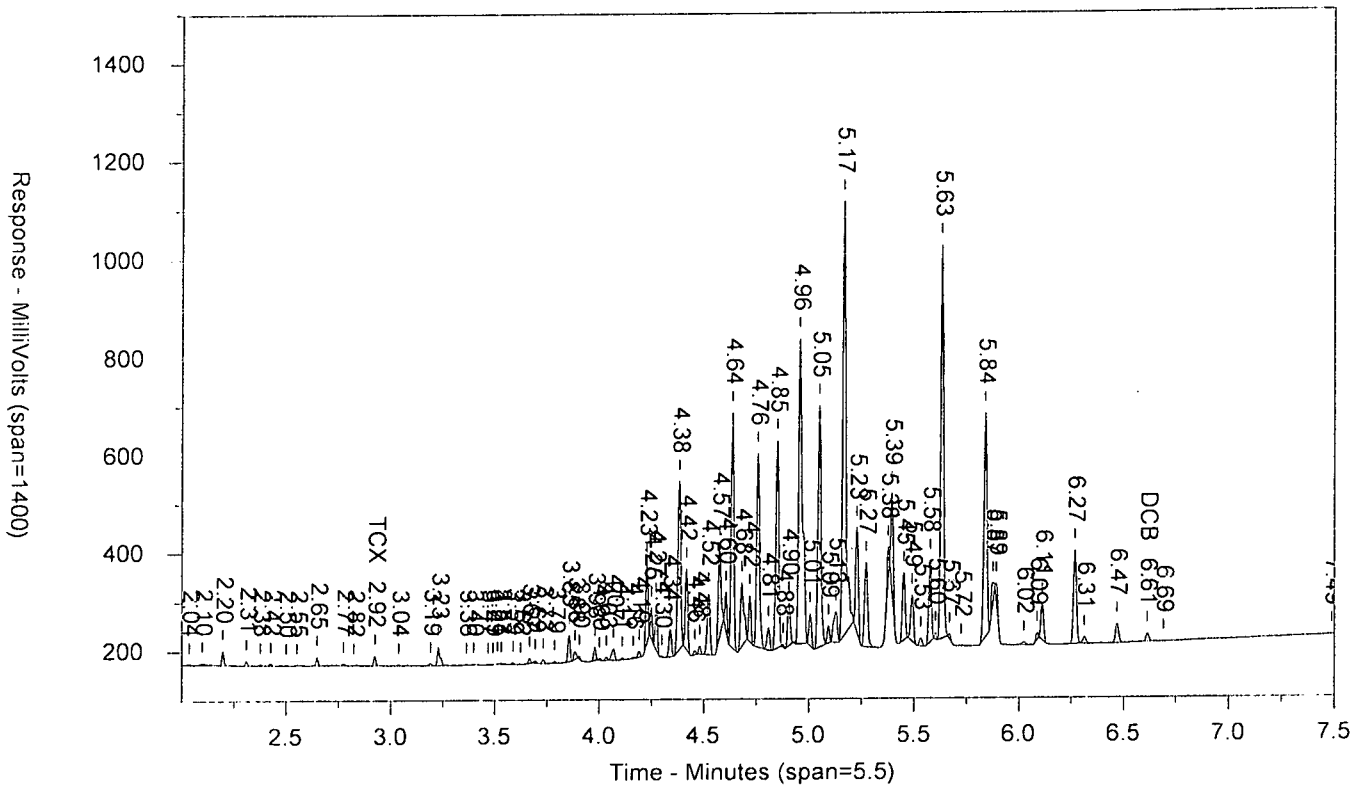

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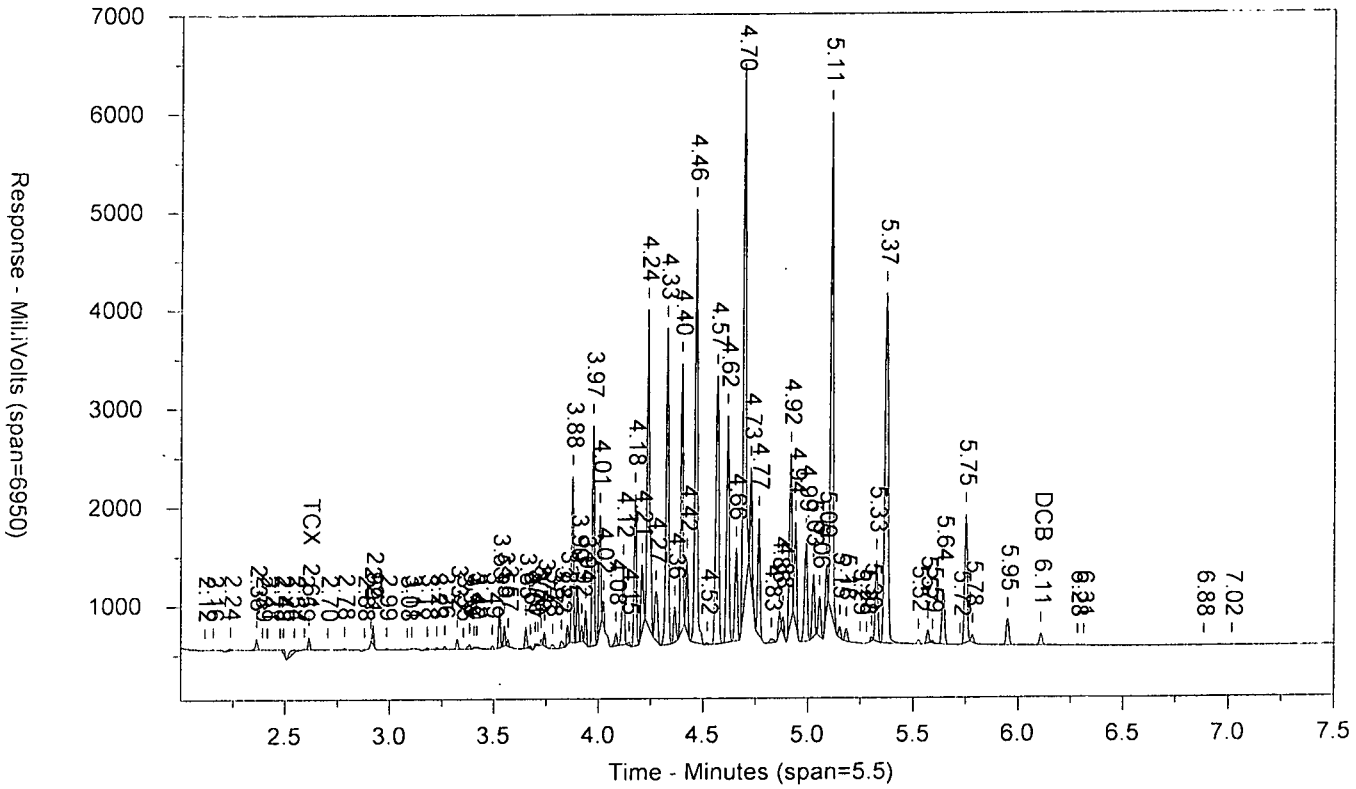

LANCASTER LABORATORIES

Sample Number: 9004848ACF DF200 ADA5507 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:17:51 PM Sample Weight: 10.01
Instrument ID: CP20-17342 Dilution Factor: 2000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	20810	36.588	TCX	2.614	127817	36.941	TCX
6.614	16831	48.868	DCB	6.108	120987	49.619	DCB

Files:
Area File: 20pcbs17137009.036.RAW
Area File: 20pcbs17137009B.036.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 9:26:35 PM
File Reported On: 5/26/2017 at 9:27:03 PM

9004848ACF DF200 ADA5507 T 171440031A 10225 SW-846 8082

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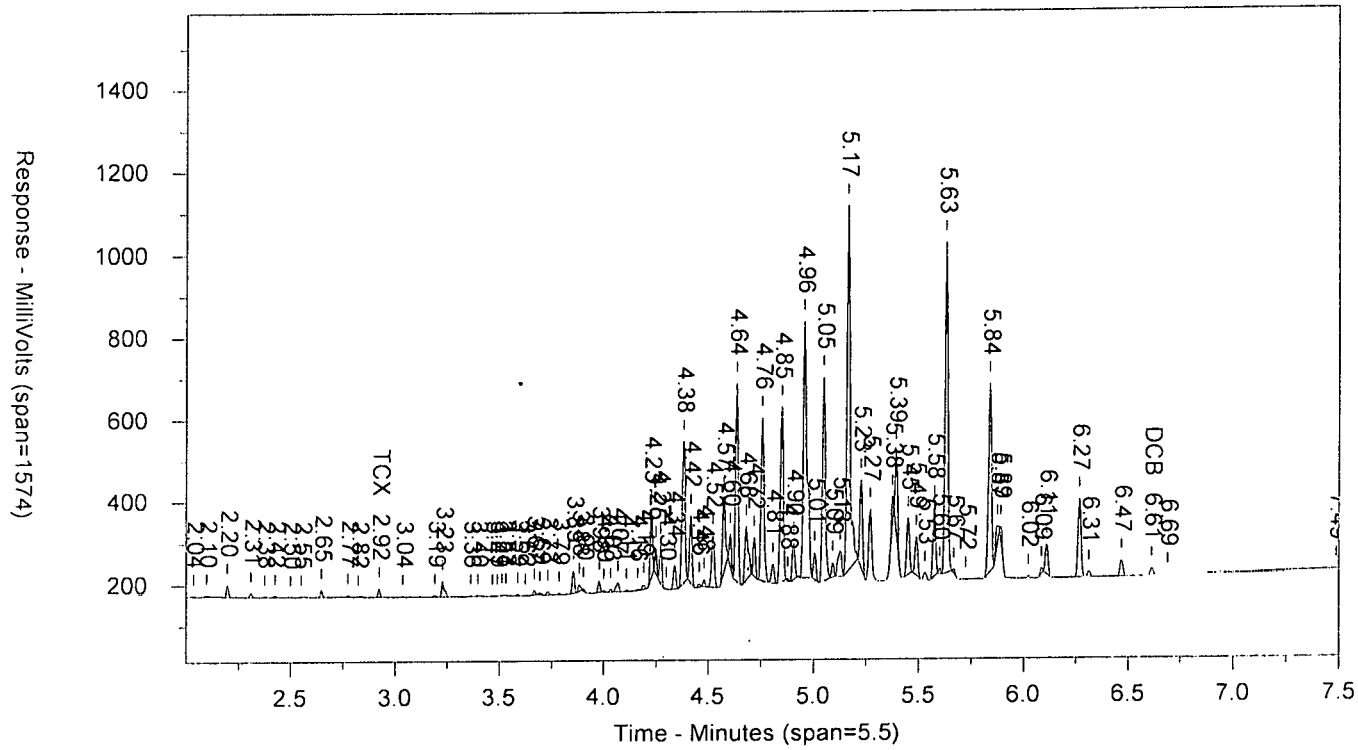

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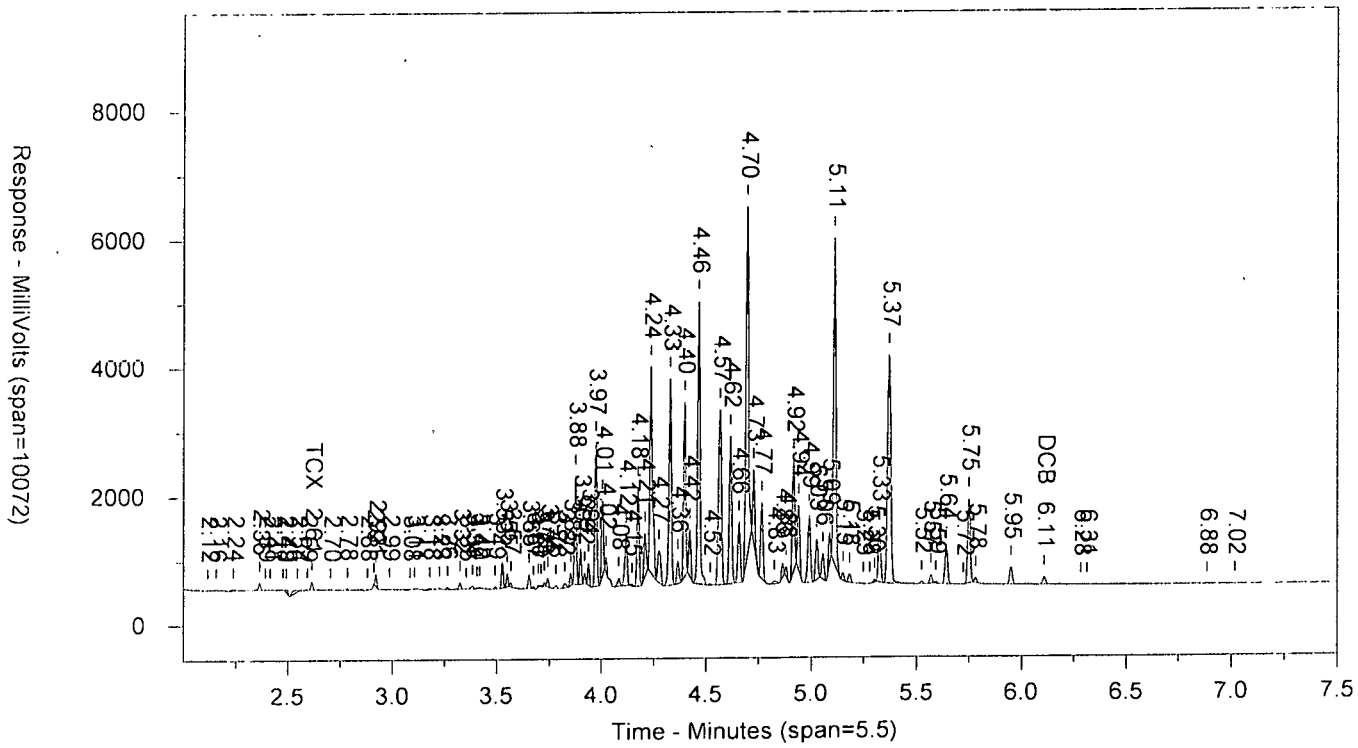

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Data Summary

Sample Name: 9004849 ACF DF200 A5508 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 21:29:23
Instrument	17342A
Result file	20PCBS17137009.037.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 124% (61 - 152) Conc: 35.97754
%SSR(DCB) 160% (48 - 164) Conc: 46.46008

Analysis Report (B)

Injected on	May 26, 2017 21:29:23
Instrument	17342B
Result file	20PCBS17137009B.037.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 128% (61 - 152) Conc: 37.30129
%SSR(DCB) 163% (48 - 164) Conc: 47.22958

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	20586	35.97754	Tetrachloro-m-xylene	2.59	2.61	2.65	129836	37.30129
Decachlorobiphenyl	6.58	6.61	6.64	16098	46.46008	Decachlorobiphenyl	6.08	6.11	6.14	115852	47.22958

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	37.30129				3.61	
☑ Decachlorobiphenyl	B	47.22958				1.64	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**22.00**	
4.73	4.76	4.77	309075.2	14647.245731			1
5.03	5.05	5.07	260829.5	22371.006503			2
5.20	5.23	5.24	189191.4	13858.175348			3
5.37	5.39	5.41	190113.3	12204.811713			4
5.61	5.63	5.65	616828.7	16335.509698			5
5.82	5.84	5.86	359786.8	16961.353744			6

Height summation: **1925824.9**
Concentration CF: **16063.017123** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.26**	
4.31	4.33	4.35	2220819	15622.315249			1
4.44	4.46	4.48	3069192	18308.186544			2
4.55	4.57	4.59	1996404	14801.554825			3
4.90	4.92	4.94	1509466	14559.225894			4
5.09	5.11	5.13	3869790	16447.258071			5
5.35	5.37	5.39	2759594	17532.879977			6

Height summation: **15425265**
Concentration CF: **16211.903427** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<10129.0968	<1966.2364			4	
☑ PCB-1221			<10129.0968	<3038.729			3	
☑ PCB-1232			<10129.0968	<2442.8998			4	
☑ PCB-1242			<10129.0968	<2442.8998			4	
☑ PCB-1248			<10129.0968	<1966.2364			4	
☑ PCB-1254			<10129.0968	<2621.6486			4	
☑ PCB-1260	B	16211.903427	10129.0968	2323.734		0.92	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004849** ACF DF200 A5508 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:29:23
Instrument : CP20--17342A
Result file : 20PCBS17137009.037.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 124% (61-152) Conc.: 35.97754
%SSR(DCB) : 160% (48-164) Conc.: 46.46008

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**97.44**	
3.16	3.19	3.20	5997.847	580.557636			1
3.37	3.40	3.41	1446.79	137.14514			2
3.49	3.49	3.53	1126.573	94.854623			3
3.71	3.73	3.75	3460.635	262.99182			4
3.76	3.79	3.80	1817.947	168.909812			5
3.96	3.98	4.00	9139.303	1059.031094			6
Height Summation:			**22989.095**				
Amount Avg CF:			**383.915021**	Linear:			
Aroclor-1221					**2**	**34.30**	
3.06	3.07	3.10	1309.226	264.543819			1
3.16	3.19	3.20	5997.847	433.93976			3
Height Summation:			**7307.073**				
Amount Avg CF:			**349.24179**	Linear:			
Aroclor-1232					**6**	**102.65**	
3.16	3.19	3.20	5997.847	483.762742			1
3.38	3.40	3.42	1446.79	290.000819			2
+ 3.49	3.49	3.53	1126.573	205.801751			3
3.49	3.53	3.53	3724.325	680.357693			3
3.71	3.73	3.75	3460.635	582.768907			4
3.77	3.79	3.81	1817.947	390.492991			5
3.96	3.98	4.00	9139.303	2539.545239			6
Height Summation:			**25586.847**				
Amount Avg CF:			**827.821398**	Linear:			
Aroclor-1242					**6**	**84.47**	
3.16	3.19	3.20	5997.847	677.682776			1
3.38	3.40	3.42	1446.79	165.542722			2
+ 3.49	3.49	3.53	1126.573	117.720474			3
3.49	3.53	3.53	3724.325	389.170789			3
3.71	3.73	3.75	3460.635	321.451991			4
3.77	3.79	3.81	1817.947	215.679133			5
3.96	3.98	4.00	9139.303	1326.343781			6
Height Summation:			**25586.847**				
Amount Avg CF:			**515.978532**	Linear:			
Aroclor-1248					**6**	**158.82**	
3.76	3.79	3.80	1817.947	311.106114			1
3.83	3.86	3.87	20138.23	1895.015087			2
3.96	3.98	4.00	9139.303	730.254657			3
4.05	4.07	4.09	8561.499	822.918341			4
4.23	4.23	4.27	84853.69	6884.955807			5
+ 4.23	4.25	4.27	19327.73	1568.235476			5
4.61	4.64	4.65	210907.8	23344.617389			6
Height Summation:			**335418.469**				
Amount Avg CF:			**5664.811232**	Linear:			
Aroclor-1254					**6**	**87.82**	
4.21	4.23	4.25	84853.69	5839.482523			1
4.55	4.57	4.59	70335.47	4816.416308			2
4.61	4.64	4.65	210907.8	7150.843217			3
4.73	4.76	4.77	309075.2	34912.459804			4
4.83	4.85	4.87	171014.4	8774.059553			5
5.14	5.17	5.18	572334.7	28585.821647			6
Height Summation:			**1418521.26**				
Amount Avg CF:			**15013.180509**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:29:23
Instrument : CP20--17342B
Result file : 20PCBS17137009B.037.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 128% (61-152) Conc.: 37.30129
%SSR(DCB) : 163% (48-164) Conc.: 47.22958

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**80.13**	
2.88	2.91	2.92	22351.7	392.590492			1
3.21	3.23	3.25	10294.55	145.501359			2
3.40	3.41	3.44	16219.73	228.144771			3
+ 3.40	3.43	3.44	5318.884	74.814782			3
3.47	3.49	3.51	18780.6	223.377947			4
3.63	3.65	3.67	78713.76	1114.311652			5
+ 3.72	3.73	3.76	33049.8	546.004098			6
3.72	3.74	3.76	47582.96	786.101312			6
Height Summation:			**193943.3**				
Amount Avg CF:			**481.671255**	Linear:			
Aroclor-1221					**3**	**22.63**	
2.77	2.78	2.81	7455.114	248.118429			1
2.83	2.83	2.87	7118.576	384.3302			2
2.88	2.91	2.92	22351.7	290.902592			3
Height Summation:			**36925.39**				
Amount Avg CF:			**307.78374**	Linear:			
Aroclor-1232					**5**	**90.11**	
2.88	2.91	2.92	22351.7	321.344834			1
3.21	3.23	3.25	10294.55	306.229488			2
3.40	3.41	3.44	16219.73	539.294293			3
+ 3.40	3.43	3.44	5318.884	176.849047			3
3.47	3.49	3.51	18780.6	508.264455			4
+ 3.73	3.73	3.77	33049.8	1249.223982			6
3.73	3.74	3.77	47582.96	1798.551724			6
Height Summation:			**115229.54**				
Amount Avg CF:			**694.736959**	Linear:			
Aroclor-1242					**6**	**83.35**	
2.88	2.91	2.92	22351.7	456.58957			1
3.21	3.23	3.25	10294.55	176.083866			2
3.40	3.41	3.44	16219.73	282.120048			3
+ 3.40	3.43	3.44	5318.884	92.514722			3
3.47	3.49	3.51	18780.6	285.816522			4
3.64	3.65	3.68	78713.76	1454.941635			5
+ 3.73	3.73	3.77	33049.8	682.006796			6
3.73	3.74	3.77	47582.96	981.909182			6
Height Summation:			**193943.3**				
Amount Avg CF:			**606.24347**	Linear:			
Aroclor-1248					**6**	**139.45**	
3.40	3.41	3.44	16219.73	578.459648			1
+ 3.40	3.43	3.44	5318.884	189.692416			1
3.51	3.53	3.55	145920.2	1845.153114			2
3.63	3.65	3.67	78713.76	796.668828			3
+ 3.72	3.73	3.76	33049.8	463.254686			4
3.72	3.74	3.76	47582.96	666.964073			4
3.86	3.88	3.90	807581.2	5976.356636			5
4.22	4.24	4.26	927308.9	15520.870853			6
+ 4.22	4.25	4.26	321658.6	5383.774047			6
Height Summation:			**2023326.75**				
Amount Avg CF:			**4230.745525**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004849** ACF DF200 A5508 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.07 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:29:23
Instrument : CP20--17342A
Result file : 20PCBS17137009.037.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	22.00	
4.73	4.76	4.77	309075.2	14647.245731			1
5.03	5.05	5.07	260829.5	22371.006503			2
5.20	5.23	5.24	189191.4	13858.175348			3
+ 5.37	5.38	5.41	21494.3	1379.881809			4
5.37	5.39	5.41	190113.3	12204.811713			4
5.61	5.63	5.65	616828.7	16335.509698			5
5.82	5.84	5.86	359786.8	16961.353744			6
Height Summation:			**1925824.9**				
Amount Avg CF:			**16063.017123**	Linear:			
Aroclor-1262					6	27.14	
5.21	5.23	5.24	189191.4	7526.805657			1
+ 5.37	5.38	5.41	21494.3	1058.517321			2
5.37	5.39	5.41	190113.3	9362.399378			2
5.61	5.63	5.65	616828.7	12568.010317			3
5.81	5.84	5.85	359786.8	13264.760642			4
5.87	5.88	5.91	89818.41	6684.631115			5
6.25	6.27	6.29	150093	9181.839581			6
Height Summation:			**1595831.61**				
Amount Avg CF:			**9764.741115**	Linear:			
Aroclor-1268					6	115.83	
5.81	5.84	5.85	359786.8	5965.242067			1
5.87	5.88	5.91	89818.41	1706.772288			2
6.00	6.02	6.04	4462.496	90.940395			3
6.07	6.09	6.11	11267.71	1001.579254			4
6.25	6.27	6.29	150093	7405.214511			5
6.45	6.47	6.49	28777.89	181.430875			6
Height Summation:			**644206.306**				
Amount Avg CF:			**2725.196565**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:29:23
Instrument : CP20--17342B
Result file : 20PCBS17137009B.037.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	93.13	
4.16	4.18	4.19	572179.7	5435.856977			1
4.22	4.24	4.26	927308.9	4965.012062			2
+ 4.22	4.25	4.26	321658.6	1722.229592			2
4.31	4.33	4.35	2220819	25561.211452			3
4.38	4.40	4.42	1015136	8085.361983			4
4.44	4.46	4.48	3069192	42449.831918			5
4.60	4.62	4.64	883790.8	10033.635107			6
Height Summation:			**8688426.4**				
Amount Avg CF:			**16088.484916**	Linear:			
Aroclor-1260					6	9.26	
4.31	4.33	4.35	2220819	15622.315249			1
4.44	4.46	4.48	3069192	18308.186544			2
4.55	4.57	4.59	1996404	14801.554825			3
4.90	4.92	4.94	1509466	14559.225894			4
5.09	5.11	5.13	3869790	16447.258071			5
5.35	5.37	5.39	2759594	17532.879977			6
Height Summation:			**15425265**				
Amount Avg CF:			**16211.903426**	Linear:			
Aroclor-1262					6	33.93	
4.71	4.73	4.75	1099456	6736.995378			1
4.90	4.92	4.94	1509466	9298.200532			2
5.09	5.11	5.13	3869790	12532.315563			3
5.31	5.33	5.35	668191.9	5222.222378			4
5.35	5.37	5.39	2759594	13399.259374			5
5.73	5.75	5.77	1004448	9011.815791			6
Height Summation:			**10910945.9**				
Amount Avg CF:			**9366.801503**	Linear:			
Aroclor-1268					6	125.80	
5.31	5.33	5.35	668191.9	1603.477886			1
5.35	5.37	5.39	2759594	6540.783942			2
5.51	5.53	5.55	33897.71	93.519982			3
5.57	5.59	5.61	19366.59	220.990421			4
5.73	5.75	5.77	1004448	7072.785143			5
5.93	5.95	5.97	200215.5	185.49887			6
Height Summation:			**4685713.7**				
Amount Avg CF:			**2619.509374**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			10129.0968	1966.2364		22.59	4	40	
Aroclor-1221			10129.0968	3038.729		12.62	3	5	
Aroclor-1232			10129.0968	2442.8998		17.48	4	10	
Aroclor-1242			10129.0968	2442.8998		16.09	4	30	
Aroclor-1248			10129.0968	1966.2364		28.98	4	40	
Aroclor-1254			10129.0968	2621.6486		6.91	4	40	
Aroclor-1260			10129.0968	2323.734		0.92	4	40	
Aroclor-1262			10129.0968	1966.2364		4.16	4	40	
Aroclor-1268			10129.0968	1966.2364		3.95	4	40	

Jessica L. Miller
Senior Chemist

MAY 28 2017

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004849ACF DF200 ADA5508 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:29:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.037.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.009		535	232
2.038		1518	1773
2.101		5393	9706
2.144		1444	1398
2.197		10698	7352
2.31		11484	7928
2.379		2444	3278
2.424		5731	5145
2.497		1557	1751
2.551		2446	3876
2.628		835	518
2.648		5048	3590
2.73		1207	1453
2.774		4874	3721
2.828		5839	5538
2.924	TCX	20586	12872
3.016		807	707
3.071		1309	1213
3.192		5998	5640
3.229		9356	5023
3.314		831	872
3.363		1020	937
3.396		1447	1220
3.466		925	800
3.494		1127	758
3.531		3724	4849
3.589		2091	1383
3.668		13120	9156
3.695		1831	1376
3.733		3461	2597
3.787		1818	1332
3.856		20138	16298
3.886		6080	5603
3.98		9139	6415
4.004		1830	1251
4.036		2673	2101
4.069		8561	9309
4.11		2004	1612
4.192		4799	4563
4.229		84854	66319
4.25		19328	11002
4.272		34215	24306
4.298		2623	1864
4.34		27110	22948
4.382		172041	163464
4.416		63463	50170
4.457		3627	2511
4.48		6856	4997
4.521		54174	53069
4.574		70335	74855
4.605		19208	11382
4.635		210908	185215
4.681		117348	131091
4.719		47119	36145

RT A	Compound A	Height A	Area A
4.757		309075	292276
4.808		17799	16578
4.849		171014	168648
4.877		3579	2044
4.904		65465	62044
4.957		441305	549534
5.006		61120	54120
5.05		260830	265205
5.092		15071	10267
5.13		42300	52534
5.165		572335	586701
5.228		189191	174562
5.271		146593	142769
5.376		21494	18471
5.393		190113	153981
5.452		125583	116276
5.491		73120	68979
5.532		13220	13684
5.576		106342	97034
5.602		5472	3033
5.633		616829	639964
5.839		359787	363584
5.877		89818	184240
6.021		4462	5735
6.086		11268	7847
6.111		60283	54869
6.268		150093	148111
6.315		9487	9376
6.468		28778	29012
6.538		1104	1409
6.614	DCB	16098	15189
7.794		885	1573
8.683		3409	4434

LANCASTER LABORATORIES

Sample Number: 9004849ACF DF200 ADA5508 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:29:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.037.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		2349	1045
2.156		8822	10644
2.241		19181	33014
2.308		2813	2599
2.363		41239	32795
2.392		2658	1696
2.411		7053	6976
2.476		4332	2696
2.495		17457	16402
2.53		11545	14556
2.543		11641	4909
2.57		6632	7975
2.593		6056	4024
2.614	TCX	129836	74167
2.702		3905	3165
2.783		7455	3686
2.829		7119	19937
2.911		22352	9598
2.921		60788	26585
2.985		3315	1520
3.083		4846	3450
3.107		9781	29384
3.181		21009	36418
3.225		10295	6912
3.264		17449	13679
3.324		114074	72987
3.354		3718	1857
3.384		19432	17802
3.406		16220	12733
3.433		5319	3559
3.448		5746	3083
3.492		18781	15113
3.527		145920	84918
3.551		95440	54672
3.568		31768	15064
3.584		5036	2553
3.654		78714	50668
3.699		31377	23188
3.727		33050	16717
3.743		47583	25393
3.782		18696	16270
3.827		26440	26928
3.854		63059	36371
3.875		807581	521957
3.9		187090	108677
3.92		67487	34888
3.939		172760	102344
3.974		1131886	777644
4.006		432136	290473
4.024		91631	42689
4.084		54223	51924
4.119		311204	260494
4.147		18353	14065
4.175		572180	405281

RT B	Compound B	Height B	Area B
4.209		222693	213815
4.236		927309	523331
4.249		321659	150336
4.275		379803	377016
4.328		2220819	1768574
4.366		144318	118304
4.397		1015136	728288
4.422		541662	377051
4.464		3069192	2436479
4.519		12422	11238
4.567		1996404	1980437
4.617		883791	743920
4.658		647285	561781
4.695		3363135	2929928
4.727		1099457	752128
4.766		973615	763091
4.825		6174	4003
4.838		8172	5113
4.866		201485	143556
4.882		75245	37970
4.917		1509466	1185854
4.94		493845	333946
4.991		891356	799902
5.026		507979	405540
5.056		338693	269842
5.088		242883	149916
5.111		3869790	3325423
5.152		96338	70903
5.184		113417	90647
5.248		5297	3172
5.303		34890	21213
5.326		668192	574405
5.37		2759594	2936128
5.526		33898	28381
5.571		97844	76381
5.594		19367	11817
5.643		462381	394228
5.75		1004448	869671
5.782		57032	40909
5.95		200216	188512
6.109	DCB	115852	102222
6.284		5168	4032
6.312		7362	6201
6.591		2302	2403
6.717		1645	1389
6.806		1613	1023
7.561		2681	3590
7.981		1822	2537
8.217		20247	36041
8.619		1335	2544

9004849ACF DF200 ADA5508 T 171440031A 10225 SW-846 8082

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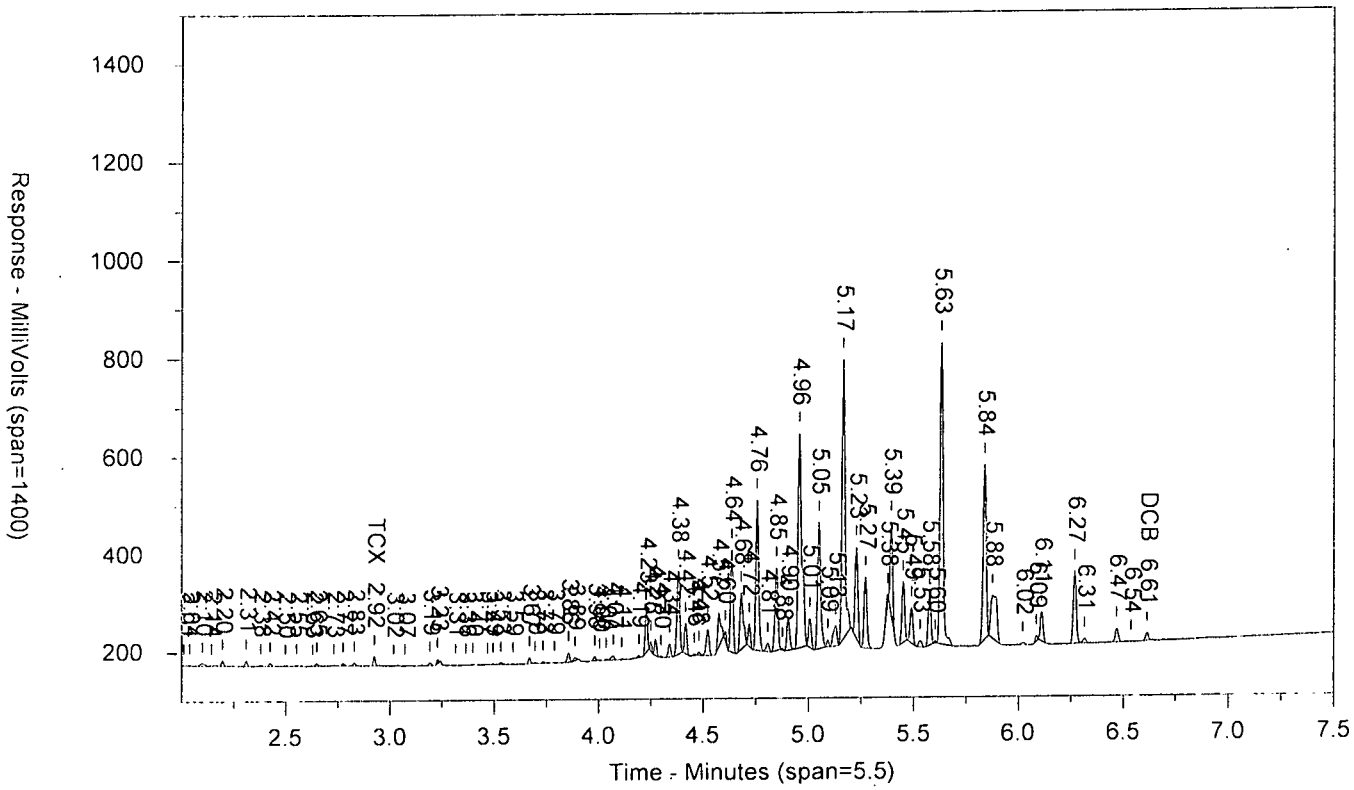

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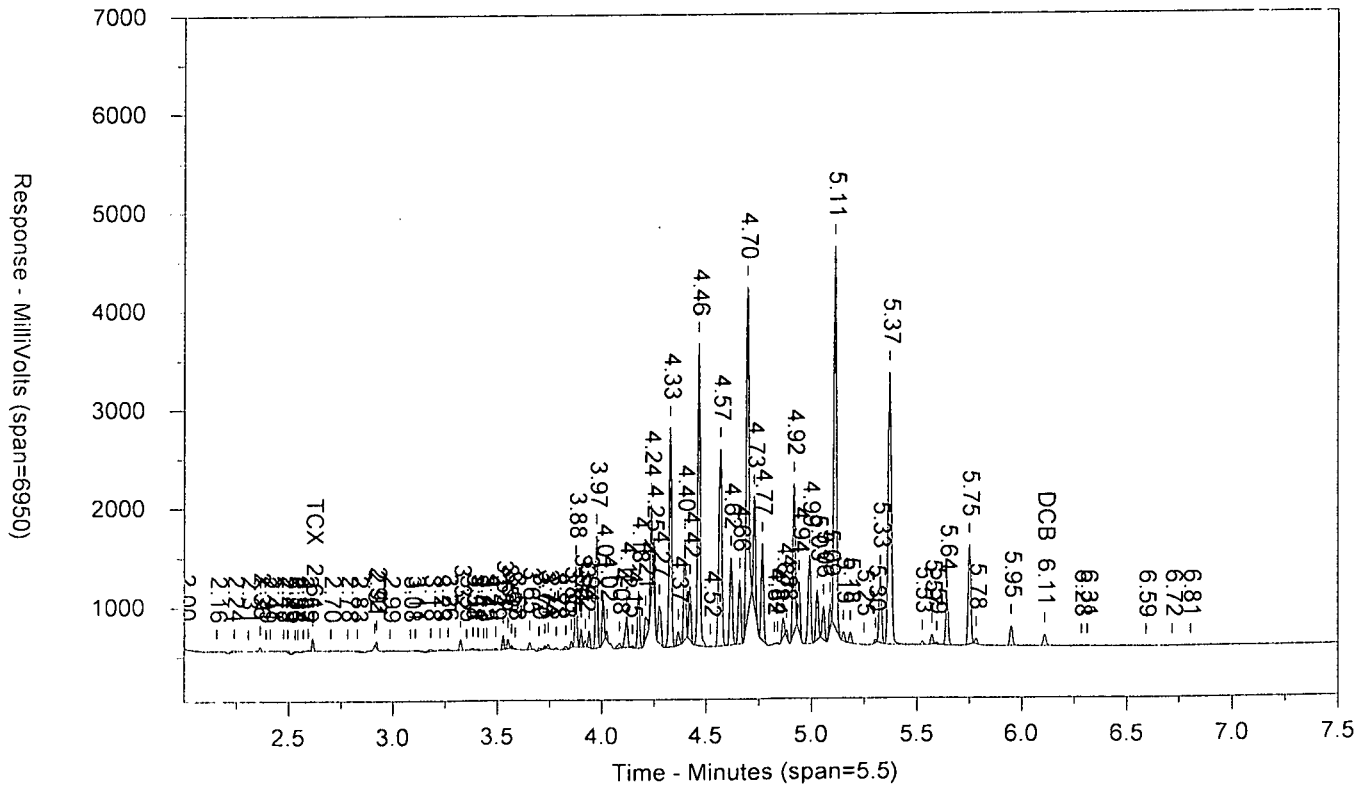

LANCASTER LABORATORIES

Sample Number: 9004849ACF DF200 ADA5508 T 171440031A . 10225 SW-846 8082
Injected On: 5/26/2017 9:29:23 PM Sample Weight: 10.07
Instrument ID: CP20-17342 Dilution Factor: 2000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	20586	35.978	TCX	2.614	129836	37.301	TCX
6.614	16098	46.46	DCB	6.109	115852	47.23	DCB

Files:
Area File: 20pcbs17137009.037.RAW
Area File: 20pcbs17137009B.037.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 9:38:14 PM
File Reported On: 5/26/2017 at 9:38:19 PM

9004849ACF DF200 ADA5508 T 171440031A 10225 SW-846 8082

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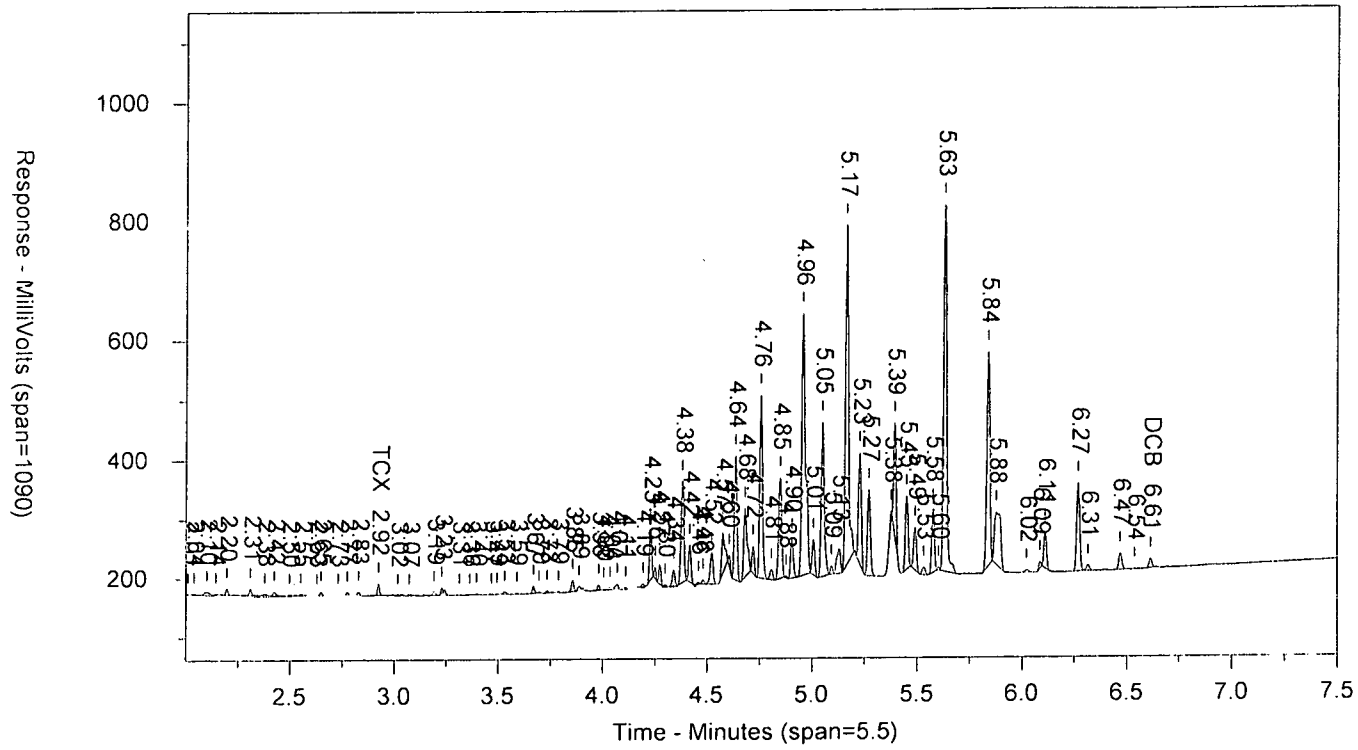

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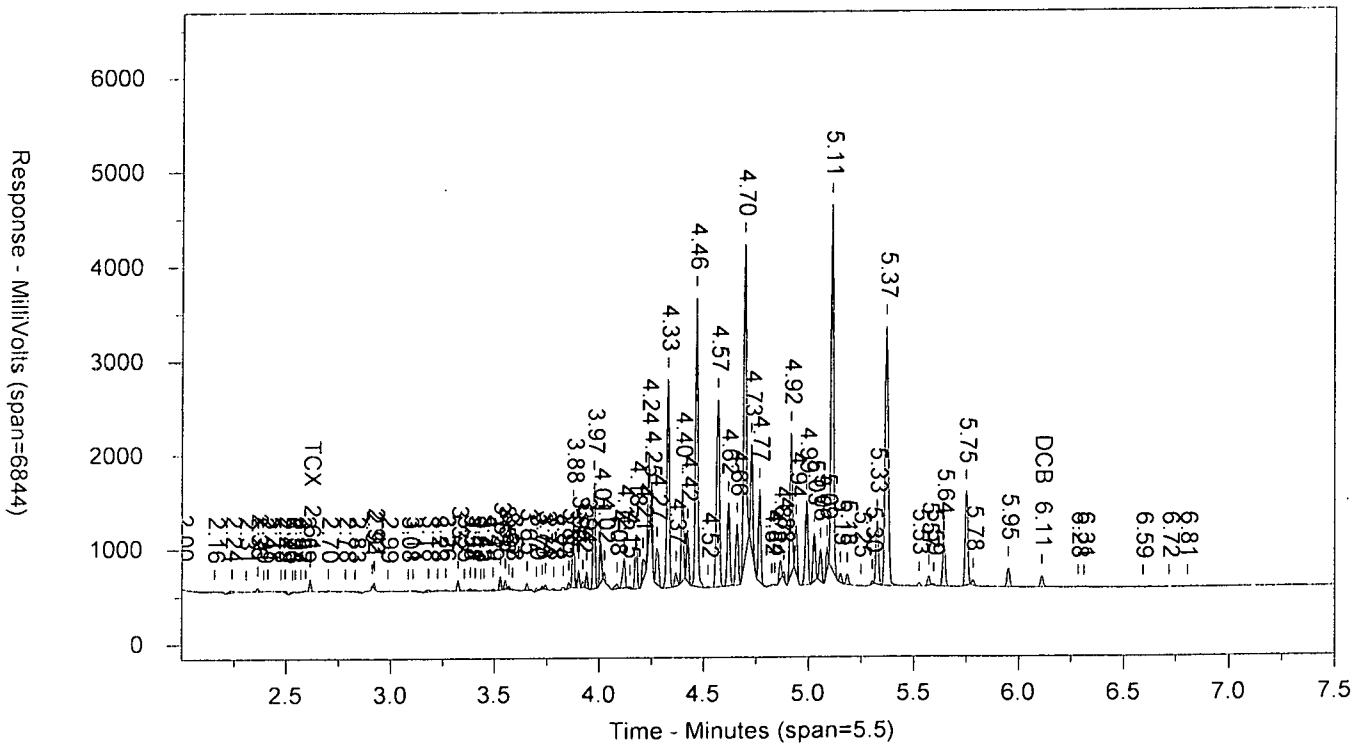

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Data Summary

Sample Name: 9004850 ACF DF500 A5509 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.03 g Total Volume: 5000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 21:40:49
Instrument	17342A
Result file	20PCBS17137009.038.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 140% (61 - 152) Conc: 40.69109
%SSR(DCB) * 187% (48 - 164) Conc: 54.68676

Analysis Report (B)

Injected on	May 26, 2017 21:40:49
Instrument	17342B
Result file	20PCBS17137009B.038.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 137% (61 - 152) Conc: 40.0936
%SSR(DCB) * 184% (48 - 164) Conc: 53.77146

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	9276	40.69109	Tetrachloro-m-xylene	2.59	2.61	2.65	55600	40.0936
Decachlorobiphenyl	6.58	6.61	6.64	7549	54.68676	Decachlorobiphenyl	6.08	6.11	6.14	52550	53.77146

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	40.69109				1.48	
☑	Decachlorobiphenyl	A	54.68676				1.69	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**49.56**	
4.73	4.76	4.77	258578	30757.563331			1
5.03	5.05	5.07	327835.7	70575.441908			2
5.20	5.23	5.24	136312.2	25061.550399			3
5.37	5.39	5.41	125085.6	20155.540352			4
5.61	5.63	5.65	515006.3	34233.334623			5
5.82	5.84	5.86	300521.7	35559.829438			6

Height summation: **1663339.5**
Concentration CF: **36057.210009** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**15.71**	
4.31	4.33	4.35	2064124	36444.883199			1
4.44	4.46	4.48	2837264	42480.494657			2
4.55	4.57	4.59	1778392	33094.433321			3
4.90	4.92	4.94	1067777	25850.208914			4
5.09	5.11	5.13	3312591	35338.041196			5
5.35	5.37	5.39	2362506	37674.676698			6

Height summation: **13422654**
Concentration CF: **35147.122998** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<25423.7283	<4935.1943			4	
☑	PCB-1221			<25423.7283	<7627.1185			3	
☑	PCB-1232			<25423.7283	<6131.6051			4	
☑	PCB-1242			<25423.7283	<6131.6051			4	
☑	PCB-1248			<25423.7283	<4935.1943			4	
☑	PCB-1254			<25423.7283	<6580.2591			4	
☑	PCB-1260	A	36057.210009	25423.7283	5832.5024		2.56	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004850** ACF DF500 A5509 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.03 g Total Volume: 5000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:40:49
Instrument : CP20--17342A
Result file : 20PCBS17137009.038.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 140% (61-152) Conc.: 40.69109
%SSR(DCB) : *187% (48-164) Conc.: 54.68676

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**143.83**	
3.37	3.40	3.41	1339.889	318.79558			2
3.49	3.51	3.53	1368.454	289.19975			3
3.71	3.73	3.75	5424.046	1034.614008			4
3.76	3.79	3.80	2585.967	603.066475			5
3.96	3.98	4.00	18896.38	5495.950285			6
Height Summation:			**29614.736**				
Amount Avg CF:			**1548.32522**	Linear:			
Aroclor-1232					**5**	**148.03**	
3.38	3.40	3.42	1339.889	674.110503			2
3.49	3.51	3.53	1368.454	627.463513			3
3.71	3.73	3.75	5424.046	2292.622164			4
3.77	3.79	3.81	2585.967	1394.195093			5
3.96	3.98	4.00	18896.38	13179.230018			6
Height Summation:			**29614.736**				
Amount Avg CF:			**3633.524258**	Linear:			
Aroclor-1242					**5**	**144.48**	
3.38	3.40	3.42	1339.889	384.806112			2
3.49	3.51	3.53	1368.454	358.914837			3
3.71	3.73	3.75	5424.046	1264.597255			4
3.77	3.79	3.81	2585.967	770.049133			5
3.96	3.98	4.00	18896.38	6883.196844			6
Height Summation:			**29614.736**				
Amount Avg CF:			**1932.312836**	Linear:			
Aroclor-1248					**6**	**159.83**	
3.76	3.79	3.80	2585.967	1110.756475			1
3.83	3.86	3.87	38577.12	9111.496724			2
3.96	3.98	4.00	18896.38	3789.731307			3
4.05	4.07	4.09	15517.41	3743.645465			4
4.23	4.23	4.27	108299.1	22055.850919			5
+ 4.23	4.25	4.27	46228.7	9414.790293			5
4.61	4.63	4.65	330929.4	91938.627671			6
Height Summation:			**514805.377**				
Amount Avg CF:			**21958.351427**	Linear:			
Aroclor-1254					**6**	**56.53**	
4.21	4.23	4.25	108299.1	18706.693201			1
4.55	4.57	4.59	129527.4	22262.801731			2
4.61	4.63	4.65	330929.4	28162.325435			3
4.73	4.76	4.77	258578	73312.226281			4
4.83	4.85	4.87	307248.4	39566.357703			5
5.14	5.17	5.18	539396.3	67620.302854			6
Height Summation:			**1673978.6**				
Amount Avg CF:			**41605.117867**	Linear:			
Aroclor-1260					**6**	**49.56**	
4.73	4.76	4.77	258578	30757.563331			1
5.03	5.05	5.07	327835.7	70575.441908			2
5.20	5.23	5.24	136312.2	25061.550399			3
+ 5.37	5.38	5.41	40692.14	6556.886402			4
5.37	5.39	5.41	125085.6	20155.540352			4
5.61	5.63	5.65	515006.3	34233.334623			5
5.82	5.84	5.86	300521.7	35559.829438			6
Height Summation:			**1663339.5**				
Amount Avg CF:			**36057.210008**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:40:49
Instrument : CP20--17342B
Result file : 20PCBS17137009B.038.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 137% (61-152) Conc.: 40.0936
%SSR(DCB) : *184% (48-164) Conc.: 53.77146

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**103.09**	
3.21	3.23	3.25	14111.86	500.624949			2
+ 3.40	3.40	3.44	8990.182	317.397812			3
3.40	3.42	3.44	17631.72	622.486769			3
3.47	3.49	3.51	20680.4	617.388182			4
3.63	3.65	3.67	148076.8	5261.524298			5
+ 3.72	3.73	3.76	36080.77	1496.137161			6
3.72	3.74	3.76	89800.21	3723.685255			6
Height Summation:			**290300.99**				
Amount Avg CF:			**2145.141891**	Linear:			
Aroclor-1221					**2**	**2.60**	
2.77	2.78	2.81	7412.398	619.201514			1
2.83	2.86	2.87	4404.227	596.828601			2
Height Summation:			**11816.625**				
Amount Avg CF:			**608.015058**	Linear:			
Aroclor-1232					**5**	**100.23**	
3.21	3.23	3.25	14111.86	1053.640479			2
+ 3.40	3.40	3.44	8990.182	750.272855			3
3.40	3.42	3.44	17631.72	1471.449733			3
3.47	3.49	3.51	20680.4	1404.778191			4
+ 3.66	3.68	3.70	26065.69	6483.38963			5
3.66	3.70	3.70	43851.64	10907.337117			5
+ 3.73	3.73	3.77	36080.77	3423.070318			6
3.73	3.74	3.77	89800.21	8519.564118			6
Height Summation:			**186075.83**				
Amount Avg CF:			**4671.353928**	Linear:			
Aroclor-1242					**5**	**104.85**	
3.21	3.23	3.25	14111.86	605.849849			2
+ 3.40	3.40	3.44	8990.182	392.488881			3
3.40	3.42	3.44	17631.72	769.756836			3
3.47	3.49	3.51	20680.4	789.960448			4
3.64	3.65	3.68	148076.8	6869.901028			5
+ 3.73	3.73	3.77	36080.77	1868.805958			6
3.73	3.74	3.77	89800.21	4651.208038			6
Height Summation:			**290300.99**				
Amount Avg CF:			**2737.33524**	Linear:			
Aroclor-1248					**6**	**160.91**	
+ 3.40	3.40	3.44	8990.182	804.760179			1
3.40	3.42	3.44	17631.72	1578.311333			1
3.51	3.53	3.55	279499.4	8870.874197			2
3.63	3.65	3.67	148076.8	3761.687663			3
+ 3.72	3.73	3.76	36080.77	1269.39075			4
3.72	3.74	3.76	89800.21	3159.343769			4
3.86	3.88	3.90	1152685	21410.632318			5
4.22	4.24	4.26	2176154	91421.812933			6
Height Summation:			**3863847.13**				
Amount Avg CF:			**21700.443702**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004850** ACF DF500 A5509 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.03 g Total Volume: 5000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 21:40:49
Instrument : CP20--17342A
Result file : 20PCBS17137009.038.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					**6**	**31.15**	
5.21	5.23	5.24	136312.2	13611.706778			1
+ 5.37	5.38	5.41	40692.14	5029.835004			2
5.37	5.39	5.41	125085.6	15461.460848			2
5.61	5.63	5.65	515006.3	26338.015201			3
5.81	5.84	5.85	300521.7	27809.845433			4
5.87	5.88	5.91	80784.87	15090.744286			5
6.25	6.27	6.29	125362.2	19248.833407			6
Height Summation:			**1283072.87**				
Amount Avg CF:			**19593.434326**	Linear:			
Aroclor-1268					**6**	**113.51**	
5.81	5.84	5.85	300521.7	12506.25355			1
5.87	5.88	5.91	80784.87	3853.086835			2
6.00	6.02	6.04	3583.325	183.287877			3
6.07	6.09	6.11	10170.52	2269.140377			4
6.25	6.27	6.29	125362.2	15524.31179			5
6.45	6.47	6.49	26829.55	424.555217			6
Height Summation:			**547252.165**				
Amount Avg CF:			**5793.439274**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 21:40:49
Instrument : CP20--17342B
Result file : 20PCBS17137009B.038.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**55.57**	
4.16	4.18	4.19	1052893	25106.626415			1
4.22	4.24	4.26	2176154	29245.163381			2
4.31	4.33	4.35	2064124	59631.069464			3
4.38	4.40	4.42	1889392	37771.641316			4
4.44	4.46	4.48	2837264	98496.36684			5
4.60	4.62	4.64	1506932	42940.888683			6
Height Summation:			**11526759**				
Amount Avg CF:			**48865.292683**	Linear:			
Aroclor-1260					**6**	**15.71**	
4.31	4.33	4.35	2064124	36444.883199			1
4.44	4.46	4.48	2837264	42480.494657			2
4.55	4.57	4.59	1778392	33094.433321			3
4.90	4.92	4.94	1067777	25850.208914			4
5.09	5.11	5.13	3312591	35338.041196			5
5.35	5.37	5.39	2362506	37674.676698			6
Height Summation:			**13422654**				
Amount Avg CF:			**35147.122997**	Linear:			
Aroclor-1262					**6**	**42.88**	
4.71	4.73	4.75	659821.2	10148.064227			1
4.90	4.92	4.94	1067777	16509.148772			2
5.09	5.11	5.13	3312591	26926.523663			3
5.31	5.33	5.35	518894.2	10178.915693			4
5.35	5.37	5.39	2362506	28792.347041			5
5.73	5.75	5.77	866250.6	19507.290077			6
Height Summation:			**8787840**				
Amount Avg CF:			**18677.048245**	Linear:			
Aroclor-1268					**6**	**127.55**	
5.31	5.33	5.35	518894.2	3125.425353			1
5.35	5.37	5.39	2362506	14054.845564			2
5.51	5.53	5.55	24449.95	169.309207			3
5.57	5.59	5.61	16467.1	471.634927			4
5.73	5.75	5.77	866250.6	15309.996858			5
5.93	5.95	5.97	183195	426.015828			6
Height Summation:			**3971762.85**				
Amount Avg CF:			**5592.871289**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			25423.7303	4935.1947		32.32	4	40	
Aroclor-1221			25423.7303	7627.1191			3	5	
Aroclor-1232			25423.7303	6131.6056		24.99	4	10	
Aroclor-1242			25423.7303	6131.6056		34.48	4	30	
Aroclor-1248			25423.7303	4935.1947		1.18	4	40	
Aroclor-1254			25423.7303	6580.2596		16.05	4	40	
Aroclor-1260			25423.7303	5832.5028		2.56	4	40	
Aroclor-1262			25423.7303	4935.1947		4.79	4	40	
Aroclor-1268			25423.7303	4935.1947		3.52	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004850ACF DF500 ADA5509 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:40:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.038.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.036		1322	1474
2.1		2606	7403
2.197		17608	13257
2.309		1220	887
2.379		2693	2795
2.425		1331	974
2.568		1405	2489
2.648		10996	7844
2.83		1874	1788
2.924	TCX	9276	8329
3.038		1283	896
3.23		16920	16117
3.398		1340	929
3.471		836	1106
3.512		1368	719
3.588		2444	1777
3.624		822	848
3.694		3827	4877
3.731		5424	4894
3.787		2586	1981
3.856		38577	27779
3.883		11448	9154
3.905		2983	1215
3.98		18896	13061
4.002		2318	1456
4.035		4334	3134
4.069		15517	15424
4.11		2573	2204
4.191		4871	3751
4.228		108299	79997
4.249		46229	27240
4.272		63575	48328
4.298		2391	1454
4.339		38528	32016
4.382		235145	228586
4.416		112635	91654
4.457		5641	4149
4.479		11287	8220
4.522		88965	82044
4.574		129527	122065
4.605		56496	37462
4.635		330929	287807
4.68		80385	93937
4.719		62785	48896
4.757		258578	253405
4.808		33375	28844
4.849		307248	289015
4.904		58024	51404
4.957		406391	516406
5.007		39229	34616
5.049		327836	323298
5.093		23247	18284
5.128		42657	53317
5.165		539396	502750

RT A	Compound A	Height A	Area A
5.187		22549	10448
5.228		136312	123710
5.271		118975	117252
5.375		40692	29035
5.393		125086	94247
5.45		91219	85017
5.49		64373	58593
5.531		11014	10388
5.575		112982	104775
5.601		8780	5217
5.631		515006	489272
5.667		5903	3249
5.724		1181	1232
5.839		300522	306741
5.876		80785	159020
6.021		3583	4164
6.086		10171	7421
6.112		49578	44882
6.268		125362	128744
6.313		9008	8850
6.469		26830	27904
6.614	DCB	7549	8440
6.917		1063	4390
7.503		510	698
7.809		415	2757
7.913		781	2576

LANCASTER LABORATORIES

Sample Number: 9004850ACF DF500 ADA5509 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:40:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.038.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		2222	1586
2.155		6261	20957
2.241		19981	39874
2.363		77295	51299
2.394		3696	2425
2.476		6371	6496
2.576		1868	3970
2.596		2389	1595
2.614	TCX	55600	31976
2.72		4708	9679
2.784		7412	4054
2.856		4404	2961
2.921		119103	111583
3.107		3799	2201
3.178		9028	8437
3.2		4066	3124
3.225		14112	14881
3.264		23318	18805
3.31		4190	2024
3.326		7403	3400
3.384		28483	23458
3.404		8990	3783
3.418		17632	15810
3.492		20680	15184
3.526		279499	172206
3.55		139567	78545
3.568		40085	19698
3.654		148077	93638
3.676		26066	13360
3.697		43852	29808
3.727		36081	18706
3.742		89800	50662
3.781		24737	22333
3.828		27761	29630
3.853		105970	60442
3.875		1152685	764346
3.9		380429	227846
3.92		115726	58886
3.939		265573	159073
3.974		1546149	1056850
4.006		794264	523568
4.023		164029	74559
4.084		91922	77895
4.119		567347	430294
4.143		9565	8601
4.176		1052893	776134
4.209		517990	383944
4.236		2176154	1811149
4.275		325343	332359
4.328		2064124	1679158
4.365		243637	188592
4.397		1889392	1360500
4.422		482727	323964
4.464		2837264	2317109

RT B	Compound B	Height B	Area B
4.519		5313	4162
4.566		1778392	1768044
4.616		1506932	1261286
4.657		594700	527260
4.695		3680745	3067665
4.727		659821	454174
4.766		777883	602987
4.825		24736	30914
4.865		145327	91849
4.882		114004	71510
4.916		1067777	833377
4.941		704543	507132
4.991		677397	587293
5.027		448115	344583
5.056		254213	207802
5.088		361143	232043
5.111		3312591	2686345
5.152		80068	52643
5.183		83538	67318
5.25		4857	3112
5.281		2800	1491
5.302		25721	16318
5.326		518894	436230
5.37		2362506	2580369
5.527		24450	21718
5.571		89160	68774
5.594		16467	10276
5.643		383728	335952
5.751		866251	743395
5.782		48147	35802
5.949		183195	164636
6.108	DCB	52550	46523
6.283		2518	1948
7.598		1552	1383
7.718		2678	3097
7.911		2308	3618
8.114		1504	1002
8.216		20051	37626

9004850ACF DF500 ADA5509 T 171440031A 10225 SW-846 8082

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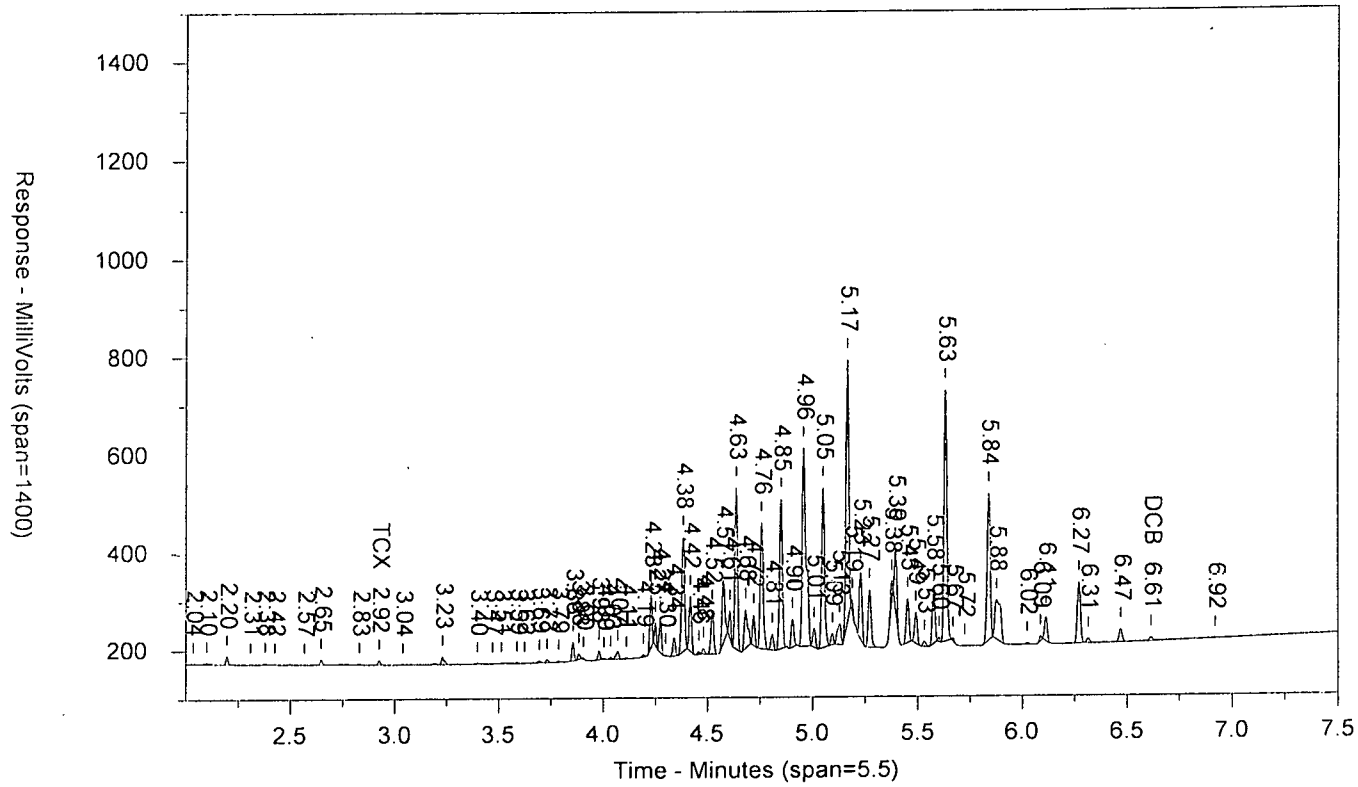

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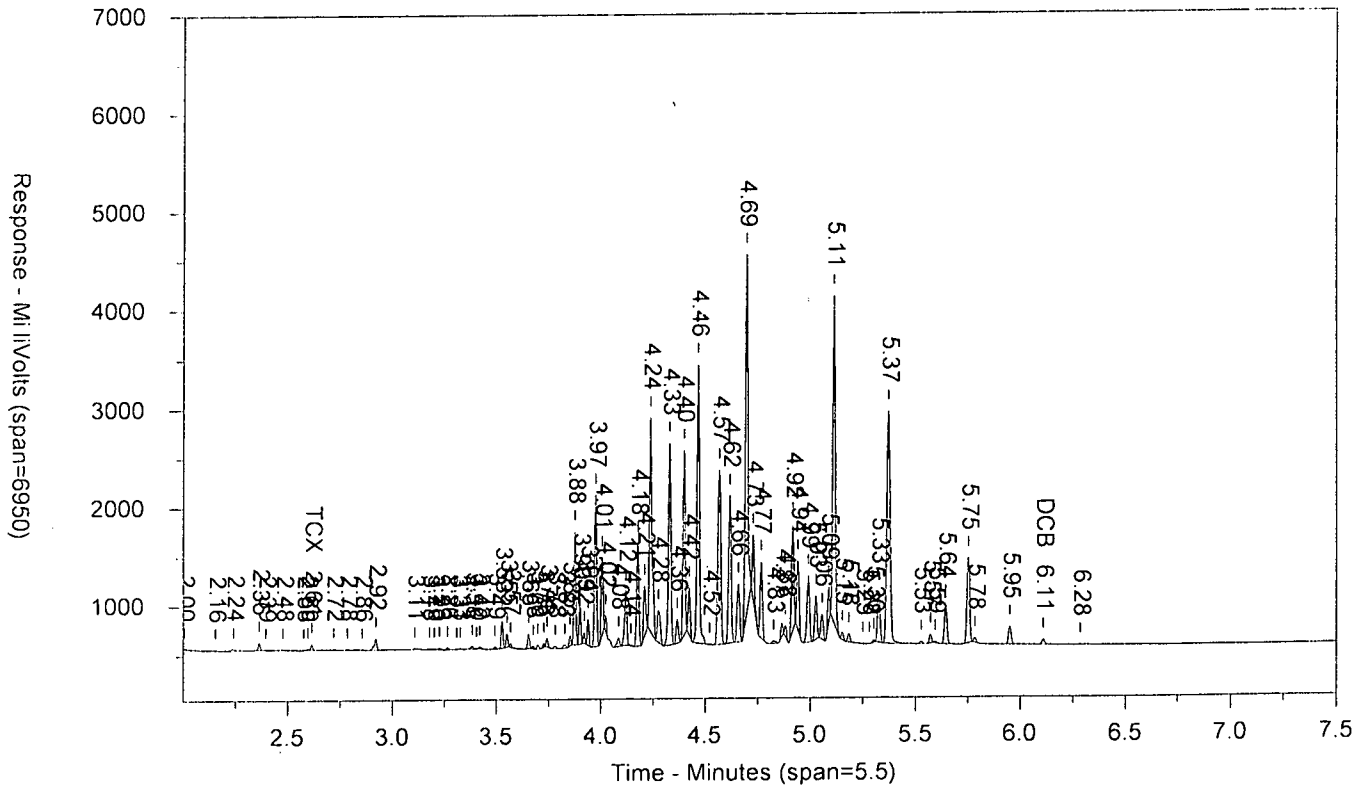

LANCASTER LABORATORIES

Sample Number: 9004850ACF DF500 ADA5509 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 9:40:49 PM Sample Weight: 10.03
Instrument ID: CP20-17342 Dilution Factor: 5000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	9276	40.691	TCX	2.614	55600	40.094	TCX
6.614	7549	54.687	DCB	6.108	52550	53.771	DCB

Files:
Area File: 20pcbs17137009.038.RAW
Area File: 20pcbs17137009B.038.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 9:49:34 PM
File Reported On: 5/26/2017 at 9:49:43 PM

9004850ACF DF500 ADA5509 T 171440031A 10225 SW-846 8082

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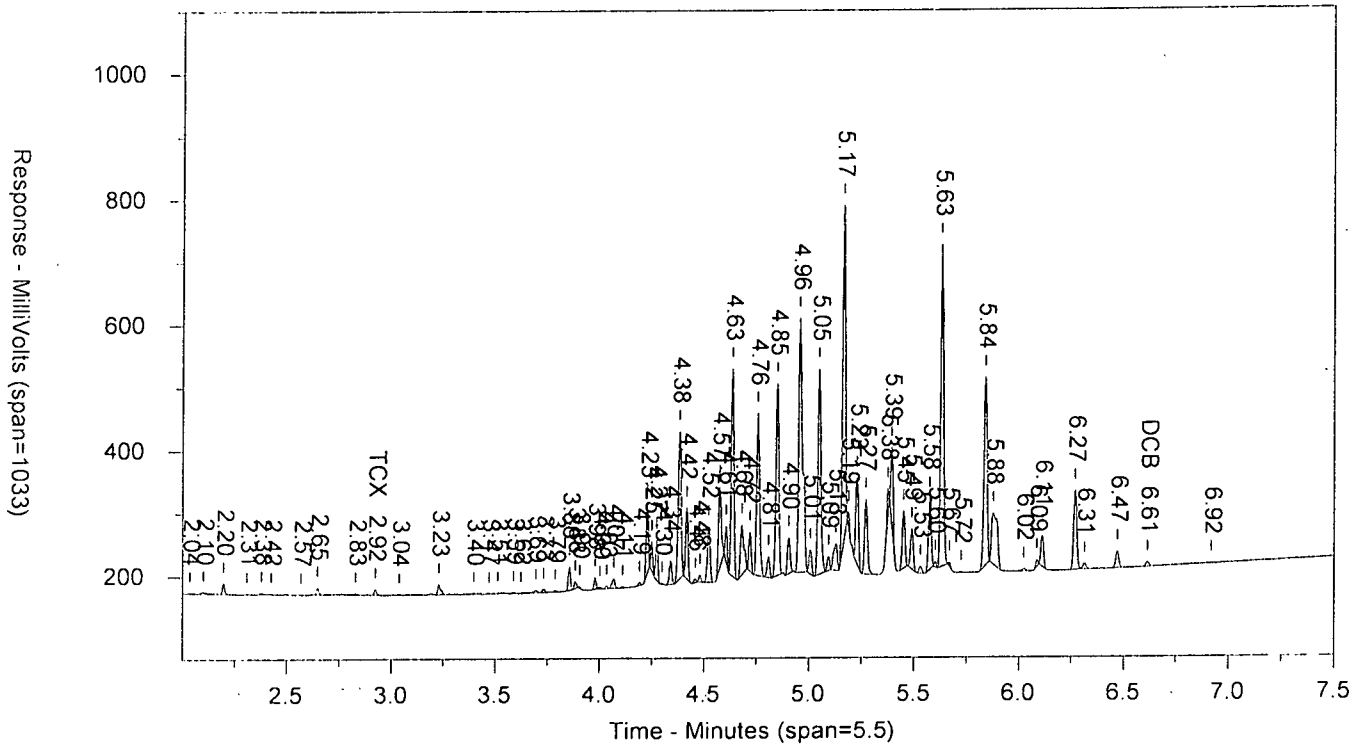

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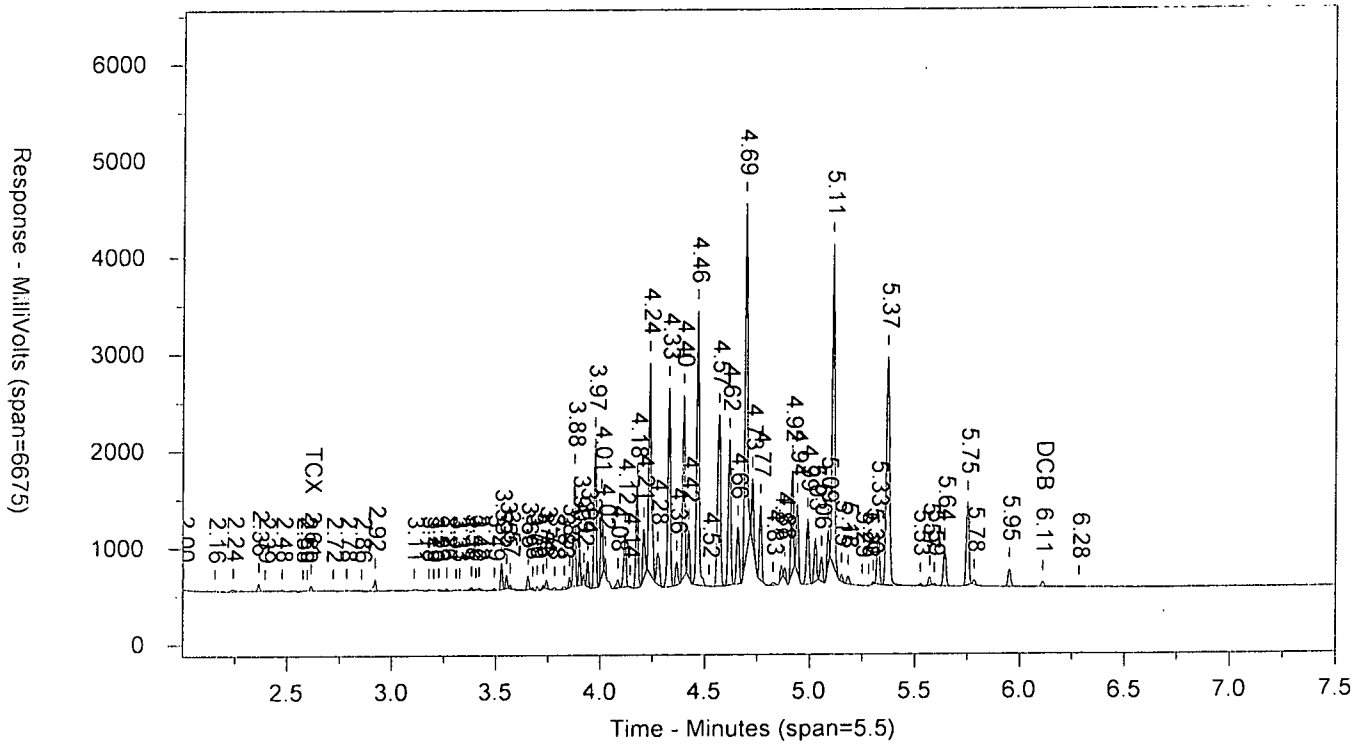

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Data Summary

Sample Name: 9004851 ACF DF5 A5510 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.37 g Total Volume: 50 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 28, 2017 20:39:49
Instrument	17342A
Result file	20PCBS17137010.017.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 103% (61 - 152) Conc: 29.18745
%SSR(DCB) 130% (48 - 164) Conc: 36.7493

Analysis Report (B)

Injected on	May 28, 2017 20:39:49
Instrument	17342B
Result file	20PCBS17137010B.017.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 104% (61 - 152) Conc: 29.33284
%SSR(DCB) 116% (48 - 164) Conc: 32.61422

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	687920	29.18745
Decachlorobiphenyl	6.58	6.61	6.64	524505	36.7493

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	4205668	29.33284
Decachlorobiphenyl	6.08	6.11	6.14	3295368	32.61422

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	29.33284				0.50	
☑ Decachlorobiphenyl	A	36.7493				11.92	

Multiple Component Data

Aroclor-1260 (%RSD 19.90)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.73	4.76	4.77	2096706	2412.237527			1
5.20	5.23	5.24	1302638	2316.429714			3
5.37	5.39	5.41	1237034	1927.928585			4
5.61	5.63	5.65	4842322	3113.23931			5
5.82	5.84	5.86	2680538	3067.806598			6

Height summation: **12159238**
Concentration CF: **2567.528347** L:

Aroclor-1260 (%RSD 10.93)

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
4.31	4.33	4.35	15732000	2686.624022			1
4.44	4.46	4.48	20527800	2972.722717			2
4.55	4.56	4.59	14383790	2588.945829			3
4.90	4.91	4.94	10475090	2452.807328			4
5.09	5.11	5.13	31321420	3231.75385			5
5.35	5.37	5.39	20185550	3113.43195			6

Height summation: **112625650**
Concentration CF: **2841.047616** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<245.9016	<47.7338			4	
☑ PCB-1221			<245.9016	<73.7705			3	
☑ PCB-1232			<245.9016	<59.3057			4	
☑ PCB-1242			<245.9016	<59.3057			4	
☑ PCB-1248			<245.9016	<47.7338			4	
☑ PCB-1254			<245.9016	<63.6451			4	
☑ PCB-1260	B	2841.047616	245.9016	56.4127		10.11	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby O. Turner, Associate Chemist
Date: MAY 30 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004851** ACF DF5 A5510 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.37 g Total Volume: 50 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 28, 2017 20:39:49
Instrument : CP20--17342A
Result file : 20PCBS17137010.017.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 103% (61-152) Conc.: 29.18745
%SSR(DCB) : 130% (48-164) Conc.: 36.7493

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	162.45	
3.16	3.18	3.20	6202.504	14.574972			1
3.37	3.40	3.41	12081.2	27.80198			2
+ 3.37	3.41	3.41	4451.179	10.243319			2
3.49	3.51	3.53	11354.95	23.209999			3
3.71	3.73	3.75	45208.62	83.406216			4
3.76	3.79	3.80	20421.76	46.063566			5
3.96	3.98	4.00	173521.3	488.134104			6
Height Summation:			**268790.334**				
Amount Avg CF:			**113.865139**	Linear:			
Aroclor-1221					3	48.44	
3.06	3.08	3.10	3539.156	17.360948			1
3.11	3.12	3.15	1103.858	6.263481			2
3.16	3.18	3.20	6202.504	10.894112			3
Height Summation:			**10845.518**				
Amount Avg CF:			**11.50618**	Linear:			
Aroclor-1232					6	169.84	
3.16	3.18	3.20	6202.504	12.144924			1
3.38	3.40	3.42	12081.2	58.78879			2
+ 3.38	3.41	3.42	4451.179	21.660053			2
3.49	3.51	3.53	11354.95	50.357676			3
3.71	3.73	3.75	45208.62	184.821525			4
3.77	3.79	3.81	20421.76	106.491738			5
E 3.96	3.98	4.00	173521.3	1170.540362			6
Height Summation:			**268790.334**				
Amount Avg CF:			**263.857503**	Linear:			
Aroclor-1242					6	163.44	
3.16	3.18	3.20	6202.504	17.013311			1
3.38	3.40	3.42	12081.2	33.55872			2
+ 3.38	3.41	3.42	4451.179	12.364324			2
3.49	3.51	3.53	11354.95	28.805049			3
3.71	3.73	3.75	45208.62	101.946495			4
3.77	3.79	3.81	20421.76	58.818074			5
3.96	3.98	4.00	173521.3	611.345254			6
Height Summation:			**268790.334**				
Amount Avg CF:			**141.914484**	Linear:			
Aroclor-1248					6	153.13	
3.76	3.79	3.80	20421.76	84.842063			1
3.83	3.85	3.87	289954.3	662.386773			2
3.96	3.98	4.00	173521.3	336.592764			3
4.05	4.07	4.09	114193.6	266.464537			4
4.23	4.23	4.27	761748.8	1500.489378			5
+ 4.23	4.25	4.27	207073.6	407.892651			5
E 4.61	4.63	4.65	2197004	5903.583215			6
Height Summation:			**3556843.76**				
Amount Avg CF:			**1459.059788**	Linear:			
Aroclor-1254					6	70.98	
4.21	4.23	4.25	761748.8	1272.641647			1
4.55	4.57	4.59	786800.5	1307.991659			2
4.61	4.63	4.65	2197004	1808.365384			3
E 4.73	4.76	4.77	2096706	5749.691597			4
4.83	4.85	4.87	1637934	2040.116732			5
E 5.14	5.16	5.18	4499592	5455.875621			6
Height Summation:			**11979785.3**				
Amount Avg CF:			**2939.113773**	Linear:			

Analysis Report (B)

Injected on : May 28, 2017 20:39:49
Instrument : CP20--17342B
Result file : 20PCBS17137010B.017.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 104% (61-152) Conc.: 29.33284
%SSR(DCB) : 116% (48-164) Conc.: 32.61422

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	115.35	
2.88	2.91	2.92	118743.1	50.632378			1
3.21	3.23	3.25	84361.85	28.946529			2
+ 3.21	3.24	3.25	21836.58	7.492643			2
+ 3.40	3.40	3.44	68928.63	23.537334			3
3.40	3.42	3.44	143726	49.07869			3
3.47	3.49	3.51	167368.6	48.327634			4
3.63	3.65	3.67	1275525	438.364838			5
+ 3.72	3.72	3.76	263010.8	105.485161			6
3.72	3.74	3.76	614818.8	246.58402			6
Height Summation:			**2404543.35**				
Amount Avg CF:			**143.655682**	Linear:			
Aroclor-1221					3	83.27	
2.77	2.78	2.81	108760.2	87.875023			1
2.83	2.85	2.87	9662.12	12.664106			2
2.88	2.91	2.92	118743.1	37.517694			3
Height Summation:			**237165.42**				
Amount Avg CF:			**46.018941**	Linear:			
Aroclor-1232					6	109.68	
2.88	2.91	2.92	118743.1	41.443829			1
3.21	3.23	3.25	84361.85	60.922324			2
+ 3.21	3.24	3.25	21836.58	15.769393			2
+ 3.40	3.40	3.44	68928.63	55.638136			3
3.40	3.42	3.44	143726	116.01343			3
3.47	3.49	3.51	167368.6	109.962595			4
+ 3.66	3.67	3.70	203648.5	489.932544			5
3.66	3.70	3.70	299438.8	720.382487			5
3.73	3.74	3.77	614818.8	564.169156			6
Height Summation:			**1428457.15**				
Amount Avg CF:			**268.815637**	Linear:			
Aroclor-1242					6	118.39	
2.88	2.91	2.92	118743.1	58.886336			1
3.21	3.23	3.25	84361.85	35.030716			2
+ 3.21	3.24	3.25	21836.58	9.0675			2
+ 3.40	3.40	3.44	68928.63	29.105878			3
3.40	3.42	3.44	143726	60.689896			3
3.47	3.49	3.51	167368.6	61.836169			4
3.64	3.65	3.68	1275525	572.367033			5
+ 3.64	3.67	3.68	203648.5	91.383303			5
3.73	3.74	3.77	614818.8	308.004973			6
Height Summation:			**2404543.35**				
Amount Avg CF:			**182.80252**	Linear:			
Aroclor-1248					6	155.40	
+ 3.40	3.40	3.44	68928.63	59.678764			1
3.40	3.42	3.44	143726	124.438713			1
3.51	3.53	3.55	1929346	592.26741			2
3.63	3.65	3.67	1275525	313.405681			3
+ 3.72	3.72	3.76	263010.8	89.498404			4
3.72	3.74	3.76	614818.8	209.213087			4
3.86	3.87	3.90	6970780	1252.34044			5
E 4.22	4.23	4.26	13317470	5411.331094			6
Height Summation:			**24251665.8**				
Amount Avg CF:			**1317.166071**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004851** ACF DF5 A5510 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.37 g Total Volume: 50 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 28, 2017 20:39:49
Instrument : CP20--17342A
Result file : 20PCBS17137010.017.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	33.81	
4.73	4.76	4.77	2096706	2412.237527			1
5.03	5.05	5.07	2265301	4716.778201			2
5.20	5.23	5.24	1302638	2316.429714			3
+ 5.37	5.37	5.41	129634.1	202.035908			4
5.37	5.39	5.41	1237034	1927.928585			4
5.61	5.63	5.65	4842322	3113.23931			5
5.82	5.84	5.86	2680538	3067.806598			6
Height Summation:			**14424539**				
Amount Avg CF:			**2925.736656**	Linear:			
Aroclor-1262					6	44.51	
E 5.21	5.23	5.24	1302638	1258.124958			1
+ 5.37	5.37	5.41	129634.1	154.983207			2
E 5.37	5.39	5.41	1237034	1478.927968			2
E 5.61	5.63	5.65	4842322	2395.225156			3
E 5.81	5.84	5.85	2680538	2399.202377			4
5.87	5.87	5.91	299436.2	541.012263			5
+ 5.87	5.89	5.91	178027.8	321.65524			5
E 6.25	6.27	6.29	1021896	1517.632732			6
Height Summation:			**11383864.2**				
Amount Avg CF:			**1598.354242**	Linear:			
Aroclor-1268					6	125.54	
E 5.81	5.84	5.85	2680538	1078.935635			1
5.87	5.87	5.91	299436.2	138.135481			2
+ 5.87	5.89	5.91	178027.8	82.127531			2
6.00	6.02	6.04	39434.52	19.509506			3
6.07	6.08	6.11	73299.86	158.17707			4
E 6.25	6.27	6.29	1021896	1223.980862			5
6.45	6.46	6.49	204958.5	31.369594			6
Height Summation:			**4319563.08**				
Amount Avg CF:			**441.684692**	Linear:			

Analysis Report (B)

Injected on : May 28, 2017 20:39:49
Instrument : CP20--17342B
Result file : 20PCBS17137010B.017.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	69.37	
4.16	4.17	4.19	5723021	1319.932244			1
4.22	4.23	4.26	13317470	1731.044888			2
4.31	4.33	4.35	15732000	4395.850655			3
4.38	4.40	4.42	9666268	1869.066671			4
E 4.44	4.46	4.48	20527800	6892.631303			5
4.60	4.62	4.64	8679745	2392.249739			6
Height Summation:			**73646304**				
Amount Avg CF:			**3100.12925**	Linear:			
Aroclor-1260					6	10.93	
4.31	4.33	4.35	15732000	2686.624022			1
4.44	4.46	4.48	20527800	2972.722717			2
4.55	4.56	4.59	14383790	2588.945829			3
4.90	4.91	4.94	10475090	2452.807328			4
5.09	5.11	5.13	31321420	3231.75385			5
5.35	5.37	5.39	20185550	3113.43195			6
Height Summation:			**112625650**				
Amount Avg CF:			**2841.047616**	Linear:			
Aroclor-1262					6	39.60	
E 4.71	4.73	4.75	7381916	1098.115995			1
E 4.90	4.91	4.94	10475090	1566.477131			2
E 5.09	5.11	5.13	31321420	2462.499153			3
5.31	5.32	5.35	4485788	851.105942			4
E 5.35	5.37	5.39	20185550	2379.397013			5
E 5.73	5.75	5.77	7221924	1572.999136			6
Height Summation:			**81071688**				
Amount Avg CF:			**1655.099062**	Linear:			
Aroclor-1268					6	126.24	
5.31	5.32	5.35	4485788	261.331184			1
E 5.35	5.37	5.39	20185550	1161.491194			2
5.51	5.52	5.55	317926.2	21.293698			3
5.57	5.59	5.61	160903.3	44.573421			4
+ 5.57	5.61	5.61	34624.98	9.591809			4
E 5.73	5.75	5.77	7221924	1234.5442			5
5.93	5.95	5.97	1410405	31.723284			6
Height Summation:			**33782496.5**				
Amount Avg CF:			**459.159497**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			245.9016	47.7338		23.14	4	40	
Aroclor-1221			245.9016	73.7705		** 119.99	3	5	
Aroclor-1232			245.9016	59.3057	E	1.86	4	10	
Aroclor-1242			245.9016	59.3057		25.18	4	30	
Aroclor-1248			245.9016	47.7338	E	10.22	4	40	
Aroclor-1254			245.9016	63.6451	E	5.33	4	40	
Aroclor-1260			245.9016	56.4127		2.94	4	40	
Aroclor-1262			245.9016	47.7338	E	3.49	4	40	
Aroclor-1268			245.9016	47.7338	E	3.88	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004851ACF DF5 ADA5510 T 171440031A 10225 SW-846 8082
Injected On: 5/28/2017 8:39:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137010.017.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		26153	25106
2.1		8254	9794
2.13		19536	12187
2.197		134058	101065
2.31		9693	8593
2.382		6989	9201
2.424		2133	1395
2.559		1834	2427
2.582		1636	894
2.627		4864	2692
2.648		50926	32080
2.73		1830	3862
2.775		7018	5539
2.826		2326	2552
2.887		1027	1558
2.924	TCX	687920	466059
3.037		17986	11480
3.079		3539	3364
3.123		1104	1193
3.182		6203	6424
3.229		79128	45065
3.242		22566	10007
3.276		1683	1101
3.317		1090	909
3.397		12081	7209
3.414		4451	3296
3.467		7637	7163
3.512		11355	8294
3.561		1509	1125
3.586		23155	15414
3.623		1857	1032
3.666		3126	1853
3.694		24832	26640
3.73		45209	36459
3.785		20422	16204
3.828		2371	1492
3.854		289954	213993
3.882		87029	75262
3.902		28225	13269
3.978		173521	132154
4.002		21079	12951
4.033		37696	27565
4.068		114194	122241
4.109		28912	22060
4.137		6708	4008
4.153		6498	3654
4.188		31369	22763
4.226		761749	561662
4.247		207074	115279
4.271		315457	240759
4.337		254341	213798
4.38		1436532	1371468
4.414		569621	452648
4.455		35697	25326

RT A	Compound A	Height A	Area A
4.478		74945	56510
4.52		516478	475223
4.572		786801	738057
4.603		208850	135648
4.633		2197004	1845854
4.678		717034	814080
4.717		382973	284290
4.755		2096706	1988910
4.806		160284	144286
4.847		1637934	1547475
4.876		28014	15818
4.903		444093	420862
4.955		3206167	3902501
5.005		353431	312043
5.048		2265301	2220835
5.09		130613	96450
5.127		298305	380065
5.164		4499592	4669247
5.202		35398	12321
5.225		1302638	1137661
5.269		986285	948294
5.375		129634	144252
5.39		1237034	987137
5.449		827366	737017
5.489		500122	442070
5.529		80156	77261
5.574		831239	728362
5.6		50996	29772
5.63		4842323	4599608
5.665		43773	26186
5.718		9399	9593
5.751		3420	2253
5.774		2509	1457
5.837		2680538	2721908
5.872		299436	294969
5.89		178028	109460
6.021		39435	61512
6.084		73300	56208
6.108		408808	361257
6.173		2659	2898
6.208		1277	953
6.234		1461	948
6.266		1021896	1040230
6.31		70514	67076
6.465		204959	213609
6.537		3920	5010
6.61	DCB	524505	548440
6.687		9958	9336
6.883		1094	835
6.918		1618	1509
7.077		1148	1003
7.135		641	1015
7.231		746	1951
7.427		785	588
7.776		5475	8136
8.026		18632	32201

LANCASTER LABORATORIES

Sample Number: 9004851ACF DF5 ADA5510 T 171440031A 10225 SW-846 8082
Injected On: 5/28/2017 8:39:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137010B.017.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

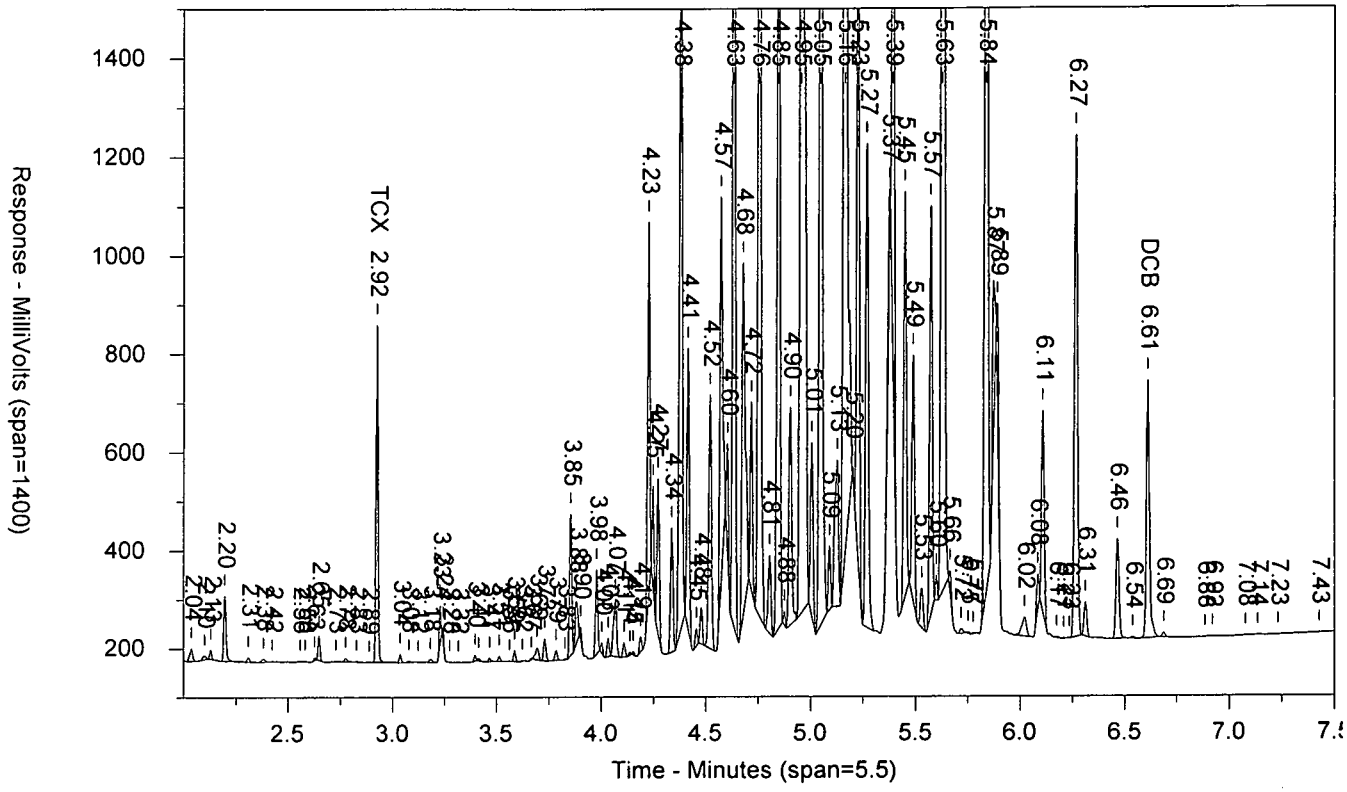
RT B	Compound B	Height B	Area B
2.004		11587	6544
2.066		12549	9509
2.111		33594	58301
2.157		27731	25044
2.228		4197	4284
2.242		9504	11291
2.281		10668	8498
2.309		7426	3622
2.364		309672	226532
2.394		9438	7243
2.429		4899	2071
2.449		9088	13283
2.491		18218	20362
2.53		7942	8300
2.546		18667	10618
2.591		12056	9160
2.614	TCX	4205668	2440781
2.662		2575	1196
2.702		17547	32832
2.765		5597	7256
2.785		108760	65404
2.845		9662	10788
2.877		9976	7712
2.911		118743	55358
2.921		484029	227296
2.947		5857	7369
2.987		8093	3903
3.01		11662	9609
3.045		3269	1685
3.073		4992	4748
3.105		87722	102207
3.156		6058	2865
3.178		50812	31712
3.202		8570	3912
3.226		84362	52818
3.243		21837	10563
3.264		160384	104529
3.309		14002	7331
3.324		60124	32059
3.353		5278	2824
3.374		21590	11586
3.383		105745	47124
3.403		68929	31450
3.419		143726	149417
3.492		167369	117673
3.526		1929346	1174577
3.549		955082	537599
3.567		346454	167223
3.583		37359	19773
3.624		9751	4536
3.652		1275525	805726
3.675		203649	106996
3.696		299439	202857
3.725		263011	132858

RT B	Compound B	Height B	Area B
3.741		614819	347719
3.78		210757	177630
3.823		230628	222496
3.852		577969	339451
3.874		6970781	4397119
3.899		1396033	807714
3.918		800199	419808
3.937		1420135	851953
3.972		9279947	6002502
4.004		3789640	2410213
4.022		1043211	528536
4.083		536641	387893
4.117		2968827	2308104
4.144		134700	110871
4.174		5723021	4153832
4.208		2085106	1744360
4.235		13317470	11629180
4.273		2331785	2305306
4.326		15732000	12497850
4.363		1187855	961963
4.395		9666268	6753027
4.42		3713040	2526552
4.463		20527800	16488670
4.516		39816	25817
4.565		14383790	13857760
4.615		8679745	6968444
4.657		4637843	3947913
4.693		27922430	22817450
4.726		7381916	4733939
4.764		6431474	4886686
4.823		44323	29817
4.836		108390	63654
4.864		1307912	849535
4.88		568825	326406
4.915		10475090	7866331
4.939		4314412	2932629
4.989		6025050	5195856
5.025		3395486	2628746
5.054		2265057	1775193
5.086		2130405	1333136
5.109		31321420	25166450
5.151		629938	449962
5.182		781846	628908
5.225		19393	12839
5.246		44293	30054
5.28		16536	10829
5.301		229137	137034
5.325		4485788	3728486
5.368		20185550	20566950
5.469		17724	18700
5.523		317926	272017
5.569		658307	512662
5.592		160903	106272
5.614		34625	17629
5.641		3087938	2575878
5.685		20858	17834
5.719		11119	6645
5.748		7221925	6041927
5.779		394243	305059
5.889		5791	5021
5.947		1410405	1233755
5.993		7482	6620
6.063		4549	2605
6.106	DCB	3295368	2943248
6.14		9561	7722
6.239		4859	3945

RT B	Compound B	Height B	Area B
6.28		42988	32545
6.308		119788	101762
6.373		6490	6381
6.482		2447	2628
6.526		12260	19212
6.583		17542	56888
6.726		6855	8169
6.755		2026	1200
6.782		3466	3217
6.884		2088	2374
6.95		4528	5474
7.009		38279	40539
7.121		7021	9464
7.238		2914	2478
7.309		2757	5112
7.456		8647	23286
7.553		104774	132263
7.71		3685	6047
8.04		1516	764
8.113		12431	21159
8.214		20464	35499
8.428		6963	14165

9004851ACF DF5 ADA5510 T 171440031A 10225 SW-846 8082

\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137010.017.RAW



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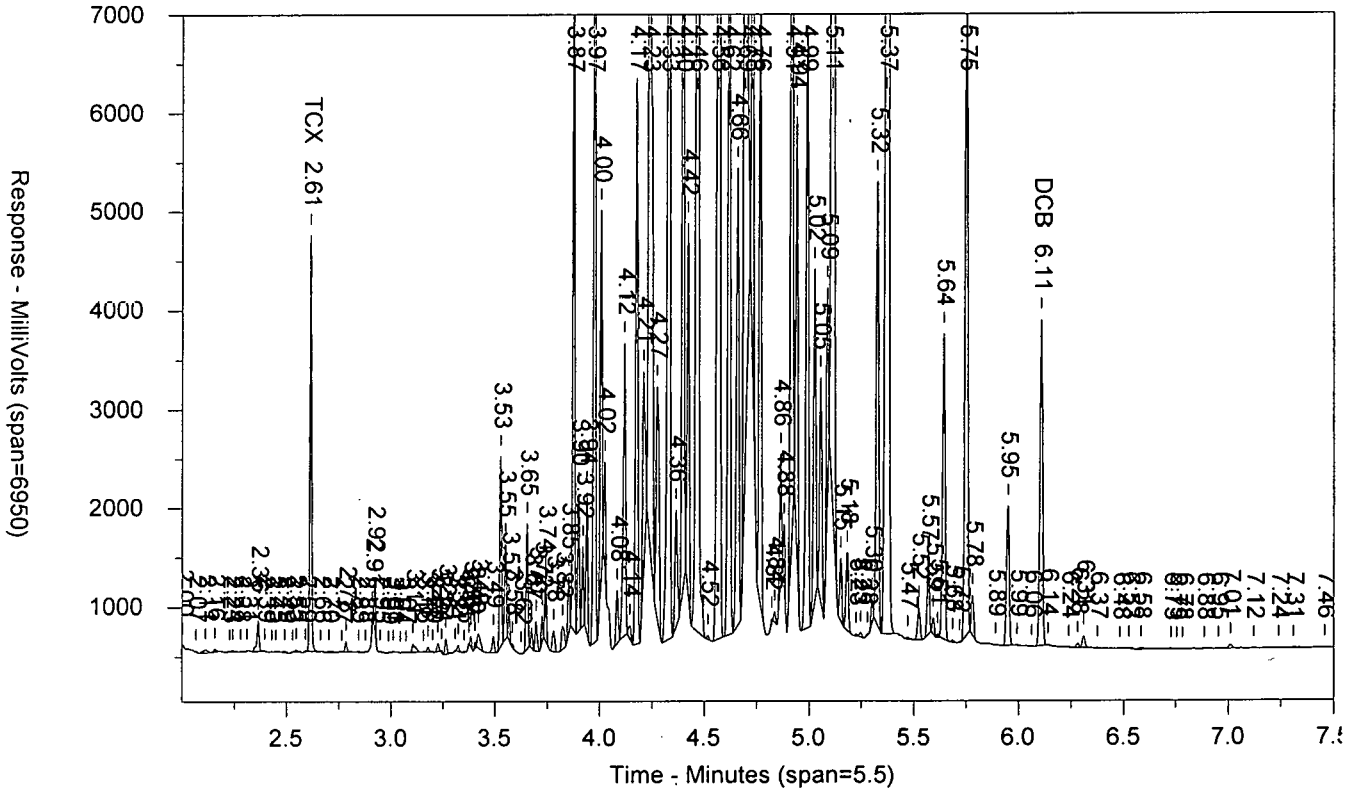


LANCASTER LABORATORIES

Sample Number: 9004851ACF DF5 ADA5510 T 171440031A 10225 SW-846 8082
Injected On: 5/28/2017 8:39:49 PM Sample Weight: 10.37
Instrument ID: CP20-17342 Dilution Factor: 50
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

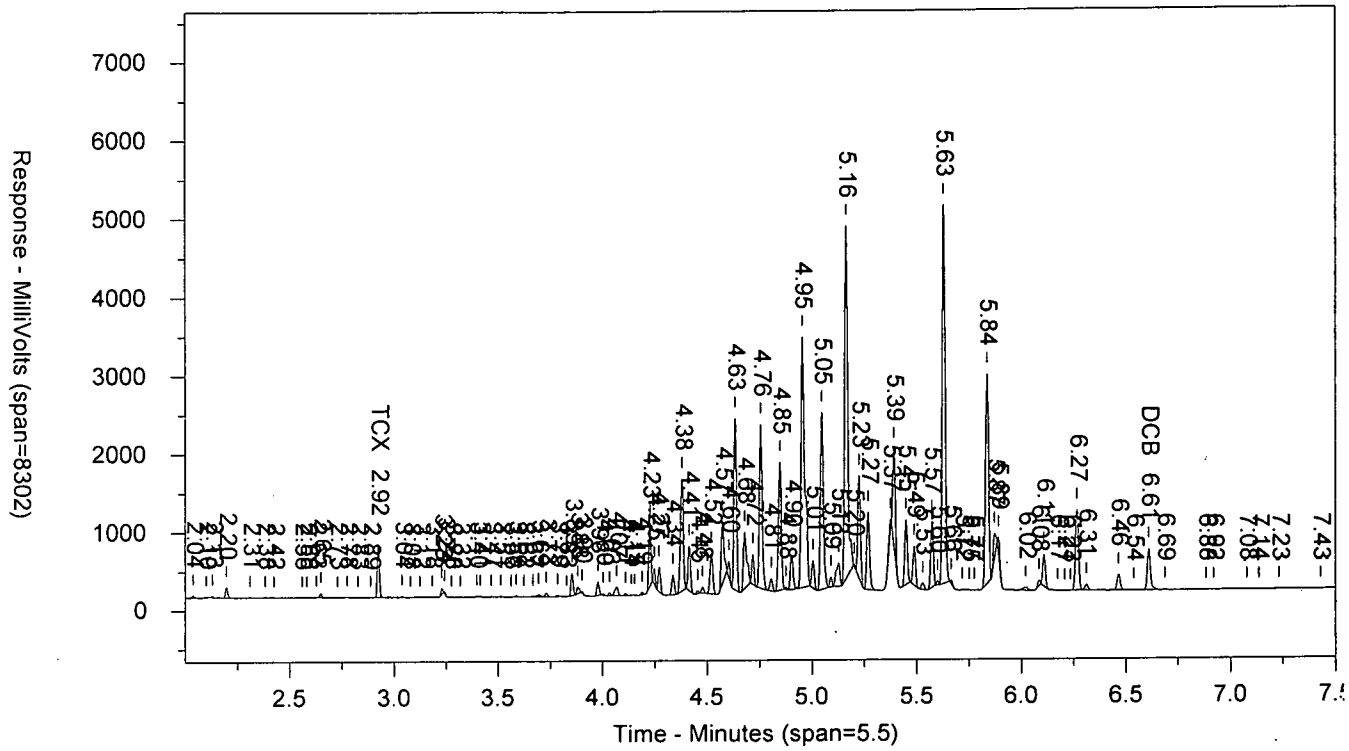
Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	687920	29.187	TCX	2.614	4205668	29.333	TCX
6.61	524505	36.749	DCB	6.106	3295368	32.614	DCB

Files:
Area File: 20pcbs17137010.017.RAW
Area File: 20pcbs17137010B.017.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/28/2017 8:48:31 PM
File Reported On: 5/30/2017 at 9:18:15 AM

9004851ACF DF5 ADA5510 T 171440031A 10225 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137010.017.RAW



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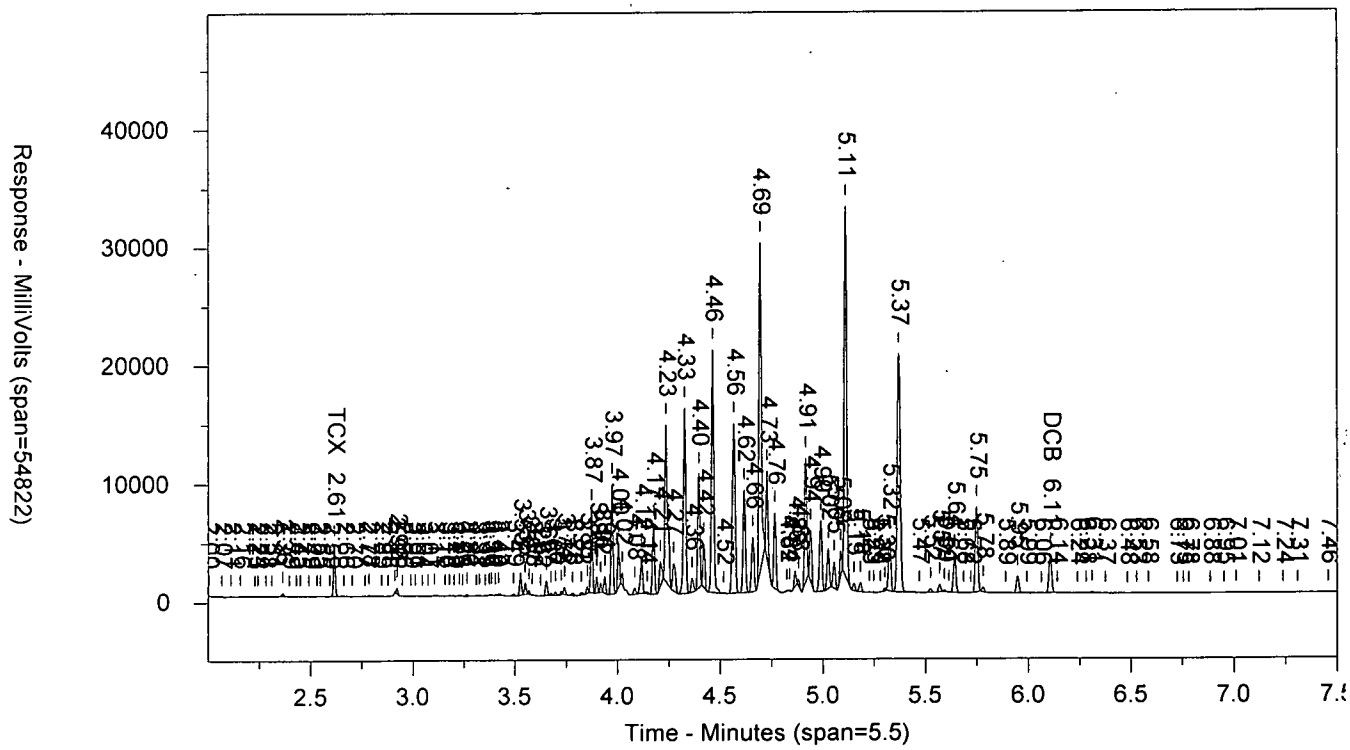

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Data Summary

Sample Name: 9004852 ACF DF50 A5511 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.14 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 22:15:19
Instrument	17342A
Result file	20PCBS17137009.041.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 112% (61 - 152) Conc: 32.27305
%SSR(DCB) 142% (48 - 164) Conc: 40.85434

Analysis Report (B)

Injected on	May 26, 2017 22:15:19
Instrument	17342B
Result file	20PCBS17137009B.041.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 108% (61 - 152) Conc: 31.1906
%SSR(DCB) 138% (48 - 164) Conc: 39.88919

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	74377	32.27305	Tetrachloro-m-xylene	2.59	2.61	2.65	437284	31.1906
Decachlorobiphenyl	6.58	6.61	6.64	57016	40.85434	Decachlorobiphenyl	6.08	6.11	6.14	394104	39.88919

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	32.27305				3.41	
☑	Decachlorobiphenyl	A	40.85434				2.39	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**27.37**	
4.73	4.76	4.77	291926.6	3434.764788			1
5.03	5.05	5.07	277420.9	5907.442672			2
5.20	5.23	5.24	189018.9	3437.48979			3
5.37	5.39	5.41	171978	2741.088147			4
5.61	5.63	5.65	632203.2	4156.773218			5
5.82	5.84	5.86	350799.2	4105.871985			6

Height summation: **1913346.8**
Concentration CF: **3963.9051** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**11.27**	
4.31	4.33	4.35	2164579	3780.395156			1
4.44	4.46	4.48	3013282	4462.647389			2
4.55	4.57	4.59	1991124	3665.124554			3
4.90	4.92	4.94	1465944	3510.458585			4
5.09	5.11	5.13	4137202	4365.604205			5
5.35	5.37	5.39	2893724	4564.536648			6

Height summation: **15665855**
Concentration CF: **4058.127756** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<2514.793	<488.1657			4	
☑	PCB-1221			<2514.793	<754.4379			3	
☑	PCB-1232			<2514.793	<606.5089			4	
☑	PCB-1242			<2514.793	<606.5089			4	
☑	PCB-1248			<2514.793	<488.1657			4	
☑	PCB-1254			<2514.793	<650.8876			4	
☑	PCB-1260	B	4058.127756	2514.793	576.9231		2.35	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004852** ACF DF50 A5511 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.14 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:15:19
Instrument : CP20--17342A
Result file : 20PCBS17137009.041.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 112% (61-152) Conc.: 32.27305
%SSR(DCB) : 142% (48-164) Conc.: 40.85434

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	129.94	
3.16	3.19	3.20	1557.67	37.433199			1
3.37	3.40	3.41	1866.476	43.926728			2
3.49	3.51	3.53	2170.906	45.380754			3
3.71	3.73	3.75	8273.877	156.108672			4
3.76	3.79	3.80	3072.89	70.88465			5
3.96	3.98	4.00	18183.39	523.12083			6
Height Summation:			**35125.209**				
Amount Avg CF:			**146.142472**	Linear:			
Aroclor-1221					1		
3.16	3.19	3.20	1557.67	27.97957			3
Height Summation:			**1557.67**				
Amount Avg CF:			**27.97957**	Linear:			
Aroclor-1232					6	140.46	
3.16	3.19	3.20	1557.67	31.192057			1
3.38	3.40	3.42	1866.476	92.885444			2
3.49	3.51	3.53	2170.906	98.460553			3
3.71	3.73	3.75	8273.877	345.924372			4
3.77	3.79	3.81	3072.89	163.874192			5
3.96	3.98	4.00	18183.39	1254.438157			6
Height Summation:			**35125.209**				
Amount Avg CF:			**331.129129**	Linear:			
Aroclor-1242					6	131.22	
3.16	3.19	3.20	1557.67	43.695634			1
3.38	3.40	3.42	1866.476	53.022296			2
3.49	3.51	3.53	2170.906	56.320332			3
3.71	3.73	3.75	8273.877	190.809902			4
3.77	3.79	3.81	3072.89	90.511852			5
3.96	3.98	4.00	18183.39	655.163067			6
Height Summation:			**35125.209**				
Amount Avg CF:			**181.58718**	Linear:			
Aroclor-1248					6	154.92	
3.76	3.79	3.80	3072.89	130.558715			1
3.83	3.86	3.87	31828.58	743.601338			2
3.96	3.98	4.00	18183.39	360.717853			3
4.05	4.07	4.09	13418.64	320.218897			4
4.23	4.23	4.27	96243.85	1938.808592			5
+ 4.23	4.25	4.27	28159.71	567.270404			5
4.61	4.64	4.65	269435.3	7404.234028			6
Height Summation:			**432182.65**				
Amount Avg CF:			**1816.356571**	Linear:			
Aroclor-1254					6	74.43	
4.21	4.23	4.25	96243.85	1644.402551			1
4.55	4.57	4.59	94168	1600.974797			2
4.61	4.64	4.65	269435.3	2268.039599			3
4.73	4.76	4.77	291926.6	8186.937655			4
4.83	4.85	4.87	212339.1	2704.764099			5
5.14	5.17	5.18	554673.1	6878.111802			6
Height Summation:			**1518785.95**				
Amount Avg CF:			**3880.538417**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:15:19
Instrument : CP20--17342B
Result file : 20PCBS17137009B.041.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 108% (61-152) Conc.: 31.1906
%SSR(DCB) : 138% (48-164) Conc.: 39.88919

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	107.60	
2.88	2.91	2.92	15404.05	67.173142			1
3.21	3.23	3.25	13406.09	47.042819			2
+ 3.40	3.40	3.44	14096.12	49.226393			3
+ 3.40	3.42	3.44	14322.63	50.01741			3
3.40	3.43	3.44	14474.77	50.548712			3
3.47	3.49	3.51	25787.16	76.149292			4
3.63	3.65	3.67	144015.5	506.170435			5
+ 3.72	3.73	3.76	47283.75	193.94139			6
3.72	3.74	3.76	82124.12	336.844391			6
Height Summation:			**295211.69**				
Amount Avg CF:			**180.654798**	Linear:			
Aroclor-1221					3	95.66	
2.77	2.78	2.81	20530.69	169.644507			1
2.83	2.83	2.87	1801.659	24.149909			2
2.88	2.91	2.92	15404.05	49.774107			3
Height Summation:			**37736.399**				
Amount Avg CF:			**81.189508**	Linear:			
Aroclor-1232					6	118.38	
2.88	2.91	2.92	15404.05	54.982845			1
3.21	3.23	3.25	13406.09	99.008686			2
+ 3.40	3.40	3.44	14096.12	116.362573			3
+ 3.40	3.42	3.44	14322.63	118.232399			3
3.40	3.43	3.44	14474.77	119.488305			3
3.47	3.49	3.51	25787.16	173.266784			4
+ 3.66	3.68	3.70	29194.33	718.281014			5
3.66	3.70	3.70	50001.21	1230.201885			5
+ 3.73	3.73	3.77	47283.75	443.726038			6
3.73	3.74	3.77	82124.12	770.679364			6
Height Summation:			**201197.4**				
Amount Avg CF:			**407.937978**	Linear:			
Aroclor-1242					6	110.38	
2.88	2.91	2.92	15404.05	78.123532			1
3.21	3.23	3.25	13406.09	56.930612			2
+ 3.40	3.40	3.44	14096.12	60.872542			3
+ 3.40	3.42	3.44	14322.63	61.850701			3
3.40	3.43	3.44	14474.77	62.507701			3
3.47	3.49	3.51	25787.16	97.434533			4
3.64	3.65	3.68	144015.5	660.899882			5
+ 3.73	3.73	3.77	47283.75	242.249731			6
3.73	3.74	3.77	82124.12	420.748057			6
Height Summation:			**295211.69**				
Amount Avg CF:			**229.44072**	Linear:			
Aroclor-1248					6	156.95	
+ 3.40	3.40	3.44	14096.12	124.813212			1
+ 3.40	3.42	3.44	14322.63	126.818831			1
3.40	3.43	3.44	14474.77	128.165945			1
3.51	3.53	3.55	244216.1	766.695316			2
3.63	3.65	3.67	144015.5	361.882787			3
+ 3.72	3.73	3.76	47283.75	164.548687			4
3.72	3.74	3.76	82124.12	285.794087			4
3.86	3.88	3.90	880921.6	1618.523795			5
4.22	4.24	4.26	1690806	7026.142631			6
Height Summation:			**3056558.09**				
Amount Avg CF:			**1697.867427**	Linear:			

MAY 28 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004852** ACF DF50 A5511 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.14 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:15:19
Instrument : CP20--17342A
Result file : 20PCBS17137009.041.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**27.37**	
4.73	4.76	4.77	291926.6	3434.764788			1
5.03	5.05	5.07	277420.9	5907.442672			2
5.20	5.23	5.24	189018.9	3437.48979			3
+ 5.37	5.38	5.41	15356.12	244.755018			4
5.37	5.39	5.41	171978	2741.088147			4
5.61	5.63	5.65	632203.2	4156.773218			5
5.82	5.84	5.86	350799.2	4105.871985			6
Height Summation:			**1913346.8**				
Amount Avg CF:			**3963.9051**	Linear:			
Aroclor-1262					**6**	**43.91**	
5.21	5.23	5.24	189018.9	1867.007521			1
+ 5.37	5.38	5.41	15356.12	187.753345			2
5.37	5.39	5.41	171978	2102.708552			2
5.61	5.63	5.65	632203.2	3198.086234			3
5.81	5.84	5.85	350799.2	3211.029611			4
5.87	5.88	5.91	31823.88	588.02628			5
+ 5.87	5.89	5.91	23009.97	425.167109			5
6.25	6.27	6.29	155863.3	2367.252882			6
Height Summation:			**1531686.48**				
Amount Avg CF:			**2222.351847**	Linear:			
Aroclor-1268					**6**	**129.14**	
5.81	5.84	5.85	350799.2	1444.01919			1
5.87	5.88	5.91	31823.88	150.139468			2
+ 5.87	5.89	5.91	23009.97	108.556991			2
6.00	6.02	6.04	5755.48	29.120047			3
6.07	6.09	6.11	10721.73	236.617058			4
6.25	6.27	6.29	155863.3	1909.205147			5
6.45	6.47	6.49	32549.66	50.948362			6
Height Summation:			**587513.25**				
Amount Avg CF:			**636.674879**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:15:19
Instrument : CP20--17342B
Result file : 20PCBS17137009B.041.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**76.19**	
4.16	4.17	4.19	717837.5	1693.141452			1
4.22	4.24	4.26	1690806	2247.611184			2
4.31	4.33	4.35	2164579	6185.477531			3
4.38	4.40	4.42	1311288	2593.013929			4
4.44	4.46	4.48	3013282	10347.208944			5
4.60	4.62	4.64	1113561	3138.732925			6
Height Summation:			**10011353.5**				
Amount Avg CF:			**4367.530994**	Linear:			
Aroclor-1260					**6**	**11.27**	
4.31	4.33	4.35	2164579	3780.395156			1
4.44	4.46	4.48	3013282	4462.647389			2
4.55	4.57	4.59	1991124	3665.124554			3
4.90	4.92	4.94	1465944	3510.458585			4
5.09	5.11	5.13	4137202	4365.604205			5
5.35	5.37	5.39	2893724	4564.536648			6
Height Summation:			**15665865**				
Amount Avg CF:			**4058.127756**	Linear:			
Aroclor-1262					**6**	**36.74**	
4.71	4.73	4.75	1015503	1544.902695			1
4.90	4.92	4.94	1465944	2241.94254			2
5.09	5.11	5.13	4137202	3326.458993			3
5.31	5.33	5.35	705346.1	1368.635966			4
5.35	5.37	5.39	2893724	3488.383571			5
5.73	5.75	5.77	1070341	2384.177215			6
Height Summation:			**11288060.1**				
Amount Avg CF:			**2392.41683**	Linear:			
Aroclor-1268					**6**	**125.13**	
5.31	5.33	5.35	705346.1	420.238233			1
5.35	5.37	5.39	2893724	1702.837643			2
5.51	5.53	5.55	42830.47	29.337184			3
5.57	5.59	5.61	23279.94	65.952866			4
5.73	5.75	5.77	1070341	1871.184851			5
5.93	5.95	5.97	221002	50.835992			6
Height Summation:			**4956523.51**				
Amount Avg CF:			**690.064461**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2514.7928	488.1657		21.12	4	40	
Aroclor-1221			2514.7928	754.4378		** 97.48	3	5	
Aroclor-1232			2514.7928	606.5088		20.79	4	10	
Aroclor-1242			2514.7928	606.5088		23.28	4	30	
Aroclor-1248			2514.7928	488.1657		6.74	4	40	
Aroclor-1254			2514.7928	650.8875		11.81	4	40	
Aroclor-1260			2514.7928	576.923		2.35	4	40	
Aroclor-1262			2514.7928	488.1657		7.37	4	40	
Aroclor-1268			2514.7928	488.1657		8.05	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004852ACF DF50 ACA5511 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:15:19 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.041.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.039		2207	2448
2.099		1746	2517
2.129		2130	2300
2.197		20690	14572
2.309		1669	1128
2.38		2275	3077
2.569		1939	1741
2.648		6249	5373
2.829		1557	1438
2.924	TCX	74377	49655
3.036		2893	1950
3.191		1558	1859
3.23		16115	8887
3.397		1866	1055
3.467		1279	1052
3.513		2171	3527
3.587		3415	2577
3.696		3385	5465
3.733		8274	7063
3.786		3073	2637
3.856		31829	22928
3.885		9392	7797
3.904		8953	5087
3.98		18183	12737
4.002		2218	1456
4.034		5325	3730
4.069		13419	15229
4.11		4411	3446
4.138		1905	1200
4.156		982	539
4.191		6222	4366
4.228		96244	67802
4.248		28160	15862
4.273		46118	35602
4.298		2262	1518
4.339		35139	30520
4.381		186193	185191
4.416		81357	68143
4.457		6367	4487
4.479		9799	7057
4.521		70827	68315
4.574		94168	94383
4.605		28056	17364
4.635		269435	233415
4.68		105403	121536
4.719		50660	37186
4.757		291927	271216
4.808		23665	21644
4.849		212339	209423
4.878		4074	2269
4.904		69571	65215
4.957		418000	540050
5.007		57059	50368
5.05		277421	286877

RT A	Compound A	Height A	Area A
5.092		19504	14440
5.13		45695	56777
5.166		554673	516705
5.188		20923	9494
5.228		189019	169543
5.27		136555	137233
5.377		15356	14244
5.393		171978	141021
5.451		122852	112363
5.49		70752	66695
5.531		12518	11956
5.576		109249	100555
5.602		7811	4516
5.632		632203	600842
5.723		1790	1760
5.839		350799	371216
5.877		31824	37595
5.89		23010	20126
6.022		5755	7441
6.087		10722	8762
6.111		61833	56409
6.267		155863	154480
6.313		10138	9959
6.467		32550	33417
6.612	DCB	57016	60495
8.315		838	475
8.545		584	411
8.683		4205	7959

LANCASTER LABORATORIES

Sample Number: 9004852ACF DF50 ACA5511 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:15:19 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.041.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.113		3073	2450
2.155		16241	25626
2.238		14097	22242
2.363		41447	30690
2.473		3830	2636
2.569		3572	3854
2.614	TCX	437284	264895
2.709		4173	8427
2.784		20531	11757
2.829		1802	1351
2.91		15404	7602
2.921		96614	44881
3.105		7339	3259
3.177		10994	9927
3.227		13406	9035
3.264		26118	16813
3.323		7578	9356
3.383		21966	19903
3.404		14096	6283
3.418		14323	6958
3.434		14475	6838
3.493		25787	19303
3.526		244216	146604
3.55		153112	84891
3.567		102339	50901
3.653		144016	90048
3.676		29194	15902
3.698		50001	36767
3.726		47284	24673
3.742		82124	44185
3.78		37168	29926
3.824		39863	38989
3.853		76292	45082
3.875		880922	578178
3.9		216382	124388
3.92		144691	76737
3.938		236949	143658
3.974		1237778	848156
4.006		595534	381842
4.024		151078	70785
4.043		34213	19355
4.084		74153	67905
4.118		422625	342251
4.145		32375	27815
4.175		717838	539579
4.209		317323	269035
4.235		1690806	1593596
4.274		358983	357886
4.328		2164579	1804632
4.364		186750	153075
4.396		1311288	927701
4.421		568672	396252
4.464		3013283	2381931
4.517		14323	10458

RT B	Compound B	Height B	Area B
4.567		1991124	1953499
4.616		1113561	940761
4.658		690351	604967
4.695		3682114	3086532
4.728		1015503	716068
4.765		910921	710605
4.824		11253	6984
4.837		8367	4436
4.865		195024	131531
4.882		93709	52582
4.916		1465944	1136321
4.94		597837	413265
4.99		904877	786869
5.027		503417	396478
5.056		328132	269862
5.088		284613	170149
5.11		4137202	3380100
5.152		85600	60954
5.183		121347	97694
5.249		7763	5737
5.281		4375	2621
5.302		32282	19805
5.326		705346	595374
5.37		2893724	3057869
5.526		42830	36910
5.571		99553	76150
5.594		23280	15401
5.616		3566	1435
5.644		479018	407813
5.721		2126	1058
5.75		1070341	905466
5.781		61730	45075
5.949		221002	198621
6.108	DCB	394104	350974
6.282		6337	4475
6.313		7274	6958
6.538		1612	2119
6.761		1648	2041
7.017		2604	3061
7.073		2608	4315
7.426		1592	1321
7.547		2635	5804
7.847		2846	4740
8.214		21448	41366
8.431		1832	2234

9004852ACF DF50 ACA5511 T 171440031A 10225 SW-846 8082

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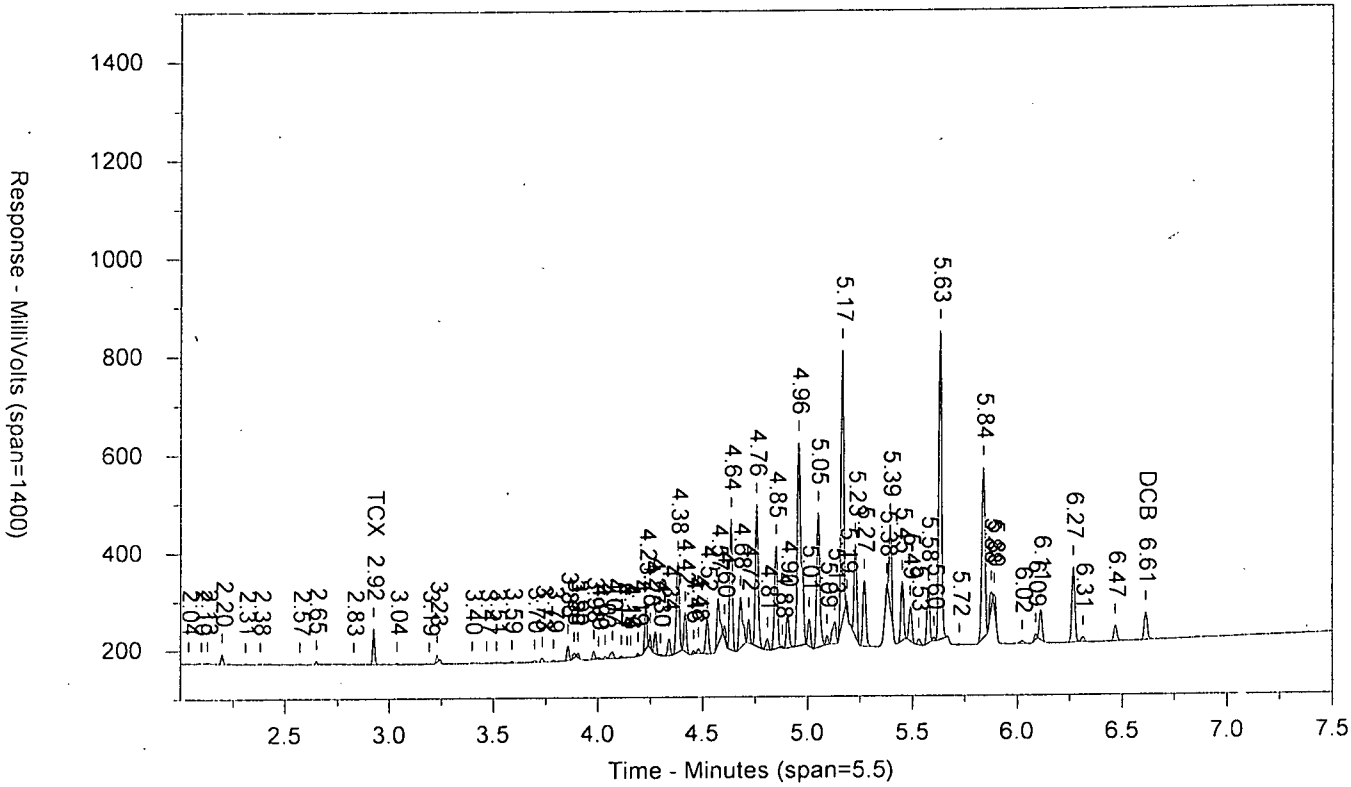

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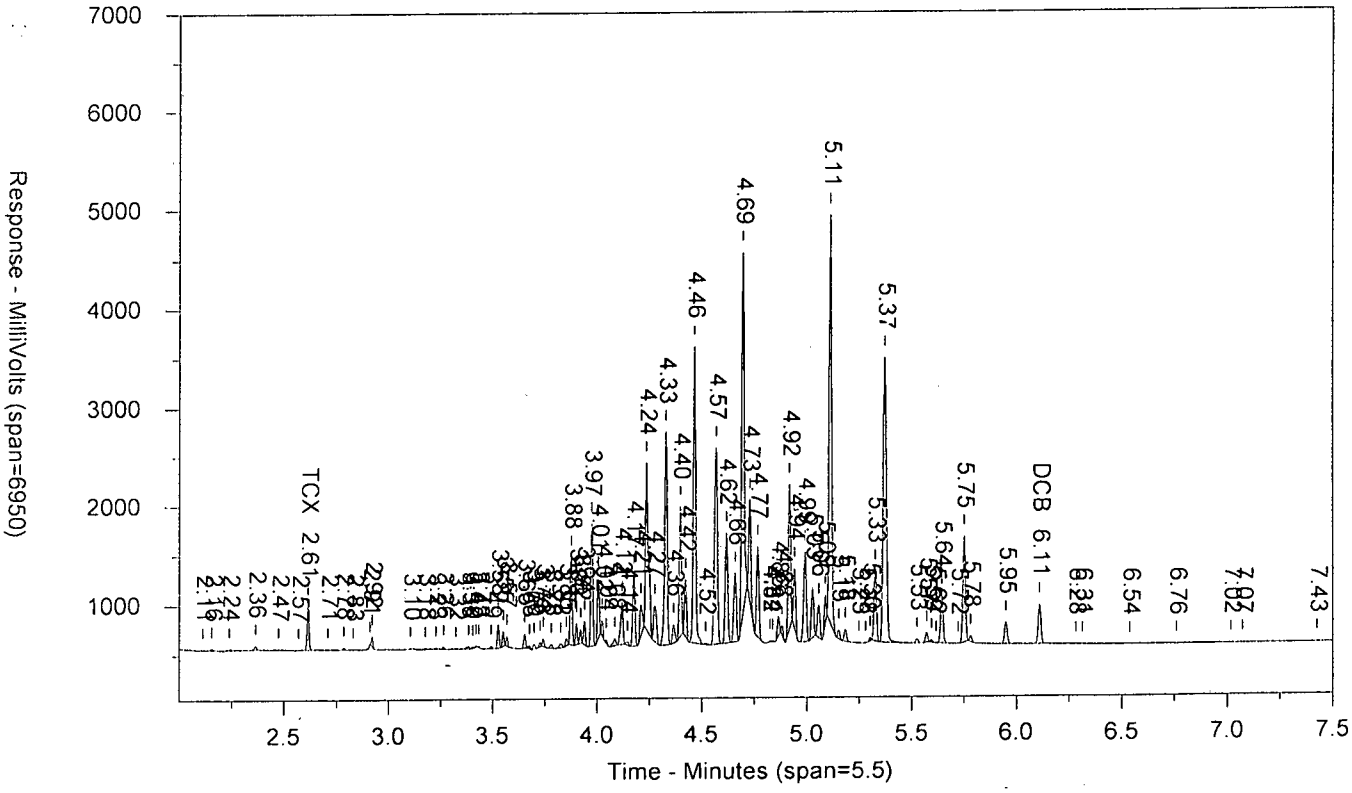

LANCASTER LABORATORIES

Sample Number: 9004852ACF DF50 ACA5511 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:15:19 PM Sample Weight: 10.14
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	74377	32.273	TCX	2.614	437284	31.191	TCX
6.612	57016	40.854	DCB	6.108	394104	39.889	DCB

Files:
Area File: 20pcbs17137009.041.RAW
Area File: 20pcbs17137009B.041.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 10:24:04 PM
File Reported On: 5/26/2017 at 10:24:16 PM

9004852ACF DF50 ACA5511 T 171440031A 10225 SW-846 8082

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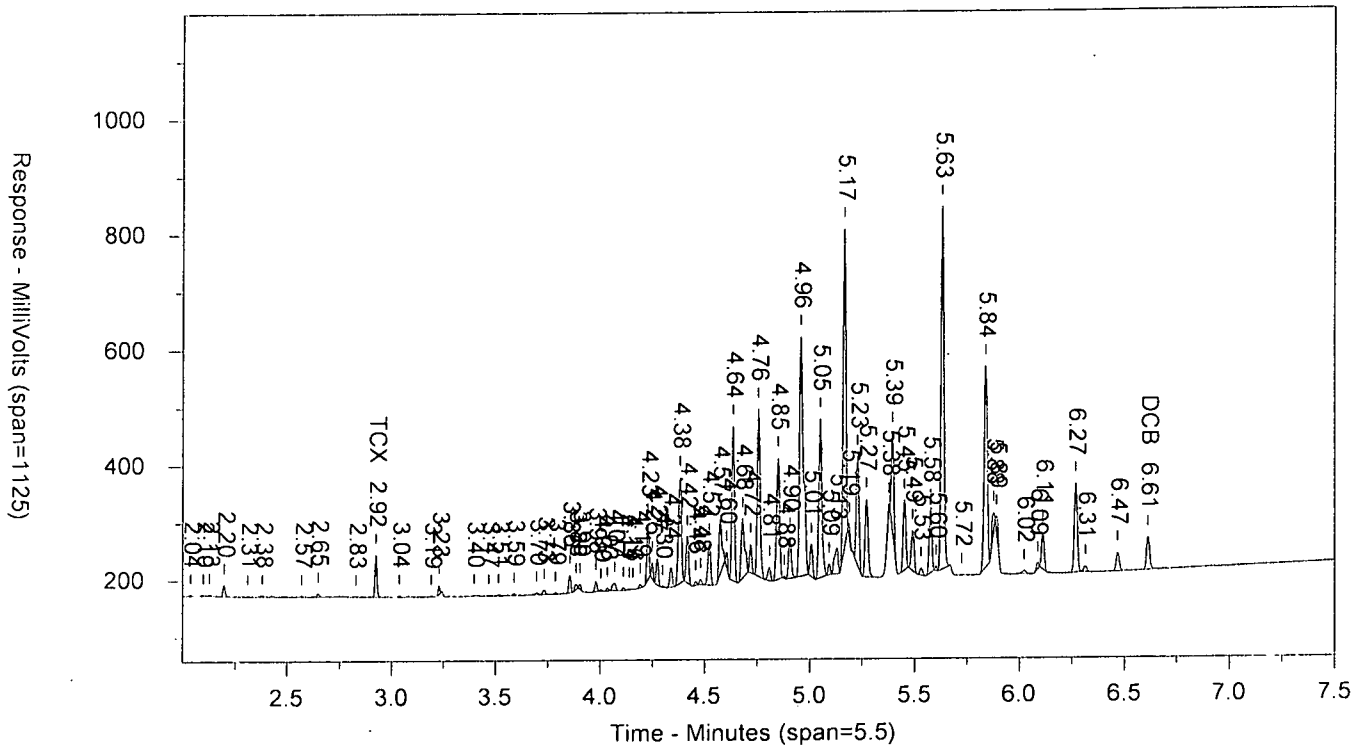

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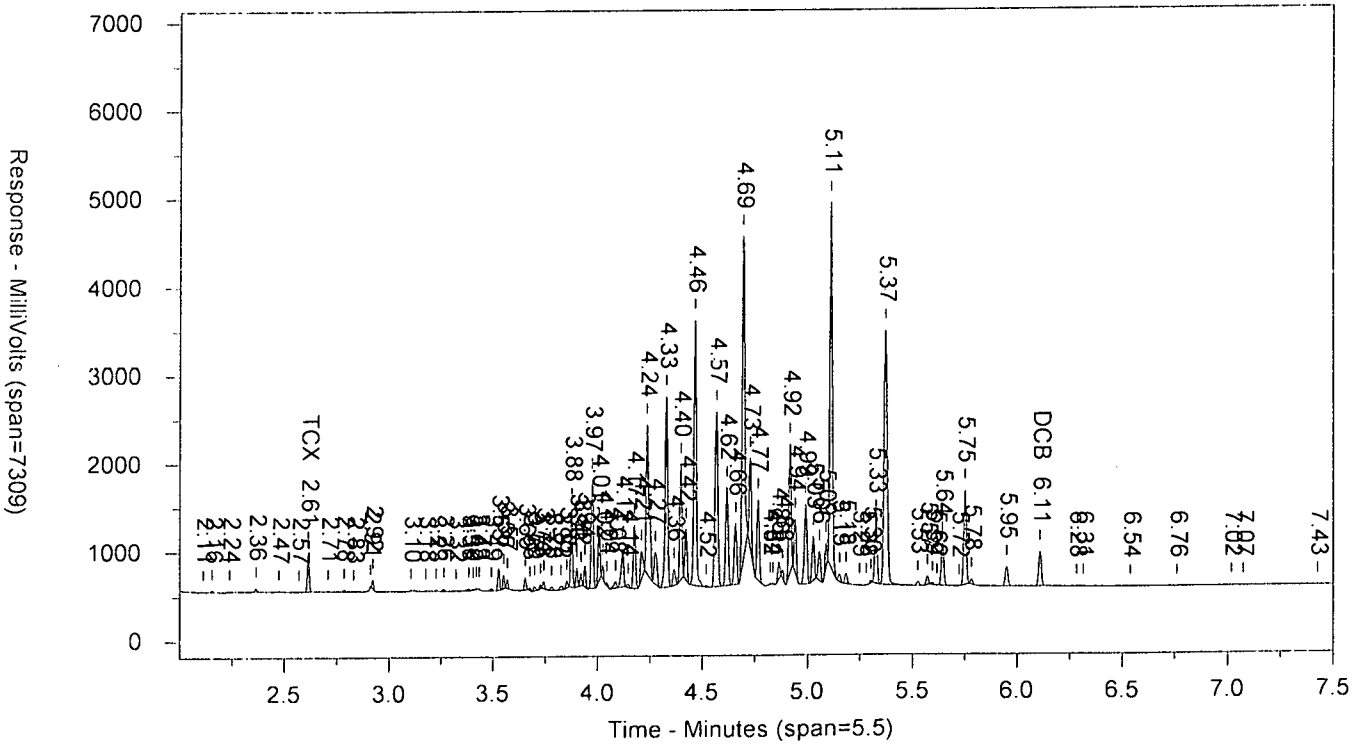

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Data Summary

Sample Name: 9004853 ACF DF100 A5512 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.04 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 22:26:42
Instrument	17342A
Result file	20PCBS17137009.042.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 123% (61 - 152) Conc: 35.76857
%SSR(DCB) 139% (48 - 164) Conc: 40.46478

Analysis Report (B)

Injected on	May 26, 2017 22:26:42
Instrument	17342B
Result file	20PCBS17137009B.042.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 116% (61 - 152) Conc: 33.90267
%SSR(DCB) 146% (48 - 164) Conc: 42.48896

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	40810	35.76857
Decachlorobiphenyl	6.58	6.61	6.64	27958	40.46478

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	235310	33.90267
Decachlorobiphenyl	6.08	6.11	6.14	207825	42.48896

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	35.76857				5.36	
☑ Decachlorobiphenyl	B	42.48896				4.88	

Multiple Component Data

Aroclor-1260 (%RSD 38.72)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.76	4.77	304340.8	7232.988068		1
5.03	5.05	5.07	378173.3	16266.175009		2
5.20	5.23	5.24	215530.3	7917.330177		3
5.37	5.39	5.41	176083.4	5668.951754		4
5.61	5.63	5.65	758978.1	10080.06016		5
5.82	5.84	5.86	464402.5	10979.323896		6

Height summation: **2297508.4**
Concentration CF: **9690.804844** L:

Aroclor-1260 (%RSD 16.23)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	2380141	8396.546174		1
4.44	4.46	4.48	3721263	11132.107671		2
4.55	4.57	4.59	2173359	8080.833133		3
4.90	4.92	4.94	1745877	8444.89696		4
5.09	5.11	5.13	4970648	10594.607704		5
5.35	5.37	5.39	3646236	11617.658452		6

Height summation: **18637524**
Concentration CF: **9711.108349** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<5079.6812	<986.0558			4	
☑ PCB-1221			<5079.6812	<1523.9044			3	
☑ PCB-1232			<5079.6812	<1225.0996			4	
☑ PCB-1242			<5079.6812	<1225.0996			4	
☑ PCB-1248			<5079.6812	<986.0558			4	
☑ PCB-1254			<5079.6812	<1314.741			4	
☑ PCB-1260	B	9711.108349	5079.6812	1165.3386		0.21	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Chemist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004853** ACF DF100 A5512 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.04 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:26:42
Instrument : CP20--17342A
Result file : 20PCBS17137009.042.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 123% (61-152) Conc.: 35.76857
%SSR(DCB) : 139% (48-164) Conc.: 40.46478

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**98.57**	
3.16	3.19	3.20	2003.267	97.242151			1
3.37	3.40	3.41	1568.469	74.561841			2
3.49	3.51	3.53	1153.922	48.723826			3
3.71	3.73	3.75	8329.088	317.431234			4
3.76	3.79	3.80	2516.864	117.273307			5
3.96	3.98	4.00	9632.224	559.742098			6
Height Summation:			**25203.834**				
Amount Avg CF:			**202.495743**	Linear:			
Aroclor-1221					**1**		
3.16	3.19	3.20	2003.267	72.683973			3
Height Summation:			**2003.267**				
Amount Avg CF:			**72.683973**	Linear:			
Aroclor-1232					**6**	**111.93**	
3.16	3.19	3.20	2003.267	81.029215			1
3.38	3.40	3.42	1568.469	157.665048			2
3.49	3.51	3.53	1153.922	105.713863			3
3.71	3.73	3.75	8329.088	703.402308			4
3.77	3.79	3.81	2516.864	271.117491			5
3.96	3.98	4.00	9632.224	1342.255566			6
Height Summation:			**25203.834**				
Amount Avg CF:			**443.530582**	Linear:			
Aroclor-1242					**6**	**99.84**	
3.16	3.19	3.20	2003.267	113.510403			1
3.38	3.40	3.42	1568.469	90.000785			2
3.49	3.51	3.53	1153.922	60.469291			3
3.71	3.73	3.75	8329.088	387.992684			4
3.77	3.79	3.81	2516.864	149.745032			5
3.96	3.98	4.00	9632.224	701.028001			6
Height Summation:			**25203.834**				
Amount Avg CF:			**250.457699**	Linear:			
Aroclor-1248					**6**	**182.91**	
3.76	3.79	3.80	2516.864	215.999547			1
3.83	3.85	3.87	18913.94	892.563544			2
3.96	3.98	4.00	9632.224	385.97004			3
4.05	4.06	4.09	10360.02	499.382463			4
4.23	4.23	4.27	75662.51	3078.767761			5
+ 4.23	4.25	4.27	43913.42	1786.872016			5
4.61	4.63	4.65	327799.2	18195.658204			6
Height Summation:			**444884.758**				
Amount Avg CF:			**3878.056927**	Linear:			
Aroclor-1254					**6**	**75.61**	
4.21	4.23	4.25	75662.51	2611.260121			1
4.55	4.57	4.59	109830.4	3771.707034			2
4.61	4.63	4.65	327799.2	5573.63168			3
4.73	4.76	4.77	304340.8	17240.197222			4
4.83	4.85	4.87	322697.6	8302.892104			5
5.14	5.16	5.18	781888.3	19584.436439			6
Height Summation:			**1922218.81**				
Amount Avg CF:			**9514.020767**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:26:42
Instrument : CP20--17342B
Result file : 20PCBS17137009B.042.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 116% (61-152) Conc.: 33.90267
%SSR(DCB) : 146% (48-164) Conc.: 42.48896

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**80.41**	
2.88	2.91	2.92	13055.93	115.001311			1
3.21	3.23	3.25	9357.376	66.325346			2
3.40	3.42	3.44	36566.78	257.940406			3
3.47	3.49	3.51	21357.06	127.390799			4
3.63	3.65	3.67	81756.65	580.423334			5
3.72	3.73	3.76	65781.77	545.002361			6
+ 3.72	3.74	3.76	49699.63	411.761734			6
Height Summation:			**227875.566**				
Amount Avg CF:			**282.013926**	Linear:			
Aroclor-1221					**2**	**93.44**	
2.77	2.78	2.81	24989.44	417.087351			1
2.88	2.91	2.92	13055.93	85.213932			3
Height Summation:			**38045.37**				
Amount Avg CF:			**251.150642**	Linear:			
Aroclor-1232					**6**	**106.04**	
2.88	2.91	2.92	13055.93	94.131361			1
3.21	3.23	3.25	9357.376	139.591664			2
3.40	3.42	3.44	36566.78	609.725958			3
3.47	3.49	3.51	21357.06	289.859478			4
+ 3.66	3.67	3.70	18778.1	933.215105			5
3.66	3.70	3.70	42728.99	2123.502318			5
3.73	3.73	3.77	65781.77	1246.932069			6
+ 3.73	3.74	3.77	49699.63	942.085664			6
Height Summation:			**188847.906**				
Amount Avg CF:			**750.623808**	Linear:			
Aroclor-1242					**6**	**82.53**	
2.88	2.91	2.92	13055.93	133.748525			1
3.21	3.23	3.25	9357.376	80.266078			2
3.40	3.42	3.44	36566.78	318.964837			3
3.47	3.49	3.51	21357.06	162.999059			4
3.64	3.65	3.68	81756.65	757.850888			5
+ 3.64	3.67	3.68	18778.1	174.065348			5
3.73	3.73	3.77	65781.77	680.755539			6
+ 3.73	3.74	3.77	49699.63	514.326361			6
Height Summation:			**227875.566**				
Amount Avg CF:			**355.764154**	Linear:			
Aroclor-1248					**6**	**173.79**	
3.40	3.42	3.44	36566.78	654.006296			1
3.51	3.53	3.55	149418.4	947.516623			2
3.63	3.65	3.67	81756.65	414.969346			3
3.72	3.73	3.76	65781.77	462.404767			4
+ 3.72	3.74	3.76	49699.63	349.357365			4
3.86	3.87	3.90	915255.5	3396.709571			5
4.22	4.23	4.26	2096992	17601.682907			6
Height Summation:			**3345771.1**				
Amount Avg CF:			**3912.881585**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004853** ACF DF100 A5512 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.04 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:26:42
Instrument : CP20--17342A
Result file : 20PCBS17137009.042.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**38.72**	
4.73	4.76	4.77	304340.8	7232.988068			1
5.03	5.05	5.07	378173.3	16266.175009			2
5.20	5.23	5.24	215530.3	7917.330177			3
+ 5.37	5.37	5.41	39357.63	1267.106982			4
5.37	5.39	5.41	176083.4	5668.951754			4
5.61	5.63	5.65	758978.1	10080.06016			5
5.82	5.84	5.86	464402.5	10979.323896			6
Height Summation:			**2297508.4**				
Amount Avg CF:			**9690.804844**	Linear:			
Aroclor-1262					**6**	**45.07**	
5.21	5.23	5.24	215530.3	4300.14804			1
+ 5.37	5.37	5.41	39357.63	972.006935			2
5.37	5.39	5.41	176083.4	4348.693911			2
5.61	5.63	5.65	758978.1	7755.270722			3
5.81	5.84	5.85	464402.5	8586.466958			4
+ 5.87	5.87	5.91	37840	1412.30655			5
5.87	5.89	5.91	50838.84	1897.463708			5
6.25	6.27	6.29	199918.3	6133.206324			6
Height Summation:			**1865751.44**				
Amount Avg CF:			**5503.54161**	Linear:			
Aroclor-1268					**6**	**100.45**	
5.81	5.84	5.85	464402.5	3861.385463			1
+ 5.87	5.87	5.91	37840	360.601152			2
5.87	5.89	5.91	50838.84	484.475271			2
6.00	6.02	6.04	7015.979	71.702292			3
+ 6.07	6.08	6.11	15070.51	671.805215			4
6.07	6.11	6.11	79111.82	3526.604824			4
6.25	6.27	6.29	199918.3	4946.471572			5
6.45	6.46	6.49	43366.19	137.110046			6
Height Summation:			**844653.629**				
Amount Avg CF:			**2171.291578**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:26:42
Instrument : CP20--17342B
Result file : 20PCBS17137009B.042.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**71.06**	
4.16	4.17	4.19	888625.9	4233.702187			1
4.22	4.23	4.26	2096992	5630.648484			2
4.31	4.33	4.35	2380141	13738.417693			3
4.38	4.40	4.42	1990179	7949.377843			4
4.44	4.46	4.48	3721263	25811.190989			5
4.60	4.61	4.64	1660177	9452.114667			6
Height Summation:			**12737377.9**				
Amount Avg CF:			**11135.908644**	Linear:			
Aroclor-1260					**6**	**16.23**	
4.31	4.33	4.35	2380141	8396.546174			1
4.44	4.46	4.48	3721263	11132.107671			2
4.55	4.57	4.59	2173359	8080.833133			3
4.90	4.92	4.94	1745877	8444.89696			4
5.09	5.11	5.13	4970648	10594.607704			5
5.35	5.37	5.39	3646236	11617.658452			6
Height Summation:			**18637524**				
Amount Avg CF:			**9711.108349**	Linear:			
Aroclor-1262					**6**	**38.11**	
4.71	4.73	4.75	1159163	3561.854606			1
4.90	4.92	4.94	1745877	5393.304973			2
5.09	5.11	5.13	4970648	8072.772157			3
5.31	5.32	5.35	879118.2	3445.61848			4
5.35	5.37	5.39	3646236	8878.633694			5
5.73	5.75	5.77	1361872	6127.550518			6
Height Summation:			**13762854.2**				
Amount Avg CF:			**5913.289071**	Linear:			
Aroclor-1268					**6**	**126.08**	
5.31	5.32	5.35	879118.2	1057.973529			1
5.35	5.37	5.39	3646236	4334.062285			2
5.51	5.52	5.55	49220.91	68.100367			3
5.57	5.59	5.61	23597.62	135.037459			4
5.73	5.75	5.77	1361872	4809.113865			5
5.93	5.95	5.97	300244.8	139.503412			6
Height Summation:			**6260289.53**				
Amount Avg CF:			**1757.298486**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			5079.6812	986.0558		32.82	4	40	
Aroclor-1221			5079.6812	1523.9044		** 110.22	3	5	
Aroclor-1232			5079.6812	1225.0996		** 51.43	4	10	
Aroclor-1242			5079.6812	1225.0996		34.74	4	30	
Aroclor-1248			5079.6812	986.0558		0.89	4	40	
Aroclor-1254			5079.6812	1314.741		15.71	4	40	
Aroclor-1260			5079.6812	1165.3386		0.21	4	40	
Aroclor-1262			5079.6812	986.0558		7.18	4	40	
Aroclor-1268			5079.6812	986.0558		21.08	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004853ACF DF100 ACA5512 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:26:42 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.042.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.036		2123	2139
2.101		1330	1656
2.129		1304	1690
2.197		28010	19550
2.31		1242	873
2.378		2271	2733
2.427		1462	1152
2.647		8521	5864
2.828		1890	1748
2.924	TCX	40810	27848
3.036		3975	2542
3.189		2003	2140
3.229		8295	4509
3.397		1568	991
3.468		1596	1622
3.512		1154	640
3.585		4487	3219
3.692		2473	3864
3.73		8329	6305
3.785		2517	2015
3.828		565	240
3.854		18914	13766
3.889		12450	17985
3.978		9632	6631
4.001		1815	1146
4.032		4077	2843
4.06		10360	13233
4.109		2305	2087
4.154		1402	1516
4.19		4753	3357
4.227		75663	53448
4.247		43913	25754
4.27		48811	36373
4.295		1942	1300
4.337		33273	28811
4.379		194758	190158
4.414		98226	77736
4.455		5712	4134
4.478		10654	7794
4.519		82830	80365
4.572		109830	102714
4.603		48714	32567
4.633		327799	284100
4.678		99928	116187
4.718		61769	47197
4.755		304341	297483
4.805		34317	31730
4.847		322698	306198
4.876		4537	2444
4.903		79908	76764
4.954		523152	645593
5.005		55985	50699
5.047		378173	378516
5.091		25941	19917

RT A	Compound A	Height A	Area A
5.127		58704	72212
5.163		781888	844727
5.226		215530	193444
5.269		153254	158143
5.374		39358	32756
5.39		176083	142343
5.449		139659	128418
5.49		87278	81177
5.529		15742	16084
5.574		148826	134954
5.6		12387	6945
5.63		758978	738145
5.665		8305	5608
5.719		1910	1989
5.756		2883	3065
5.836		464403	473985
5.874		37840	43531
5.89		50839	35208
6.022		7016	11403
6.083		15071	11229
6.107		79112	70201
6.233		834	437
6.265		199918	196516
6.31		14715	13722
6.463		43366	46485
6.61	DCB	27958	26134
6.882		772	1503
6.916		779	839
7.077		673	617
7.123		1068	1588
7.417		609	423
8.025		2505	4015
8.68		3410	4900

LANCASTER LABORATORIES

Sample Number: 9004853ACF DF100 ACA5512 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:26:42 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.042.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.11		5901	5425
2.157		6106	4438
2.236		14501	23956
2.364		59856	40037
2.394		3273	2736
2.477		3979	2246
2.593		3228	8985
2.615	TCX	235310	139639
2.713		3998	8655
2.785		24989	14691
2.911		13056	5566
2.921		52861	24556
3.035		1233	688
3.105		6301	3268
3.178		11715	10979
3.202		2791	1339
3.227		9357	6295
3.263		34286	22092
3.309		2954	1306
3.324		9477	5524
3.383		19914	19415
3.418		36567	40344
3.492		21357	13985
3.526		149418	87016
3.55		127675	72583
3.567		32117	14768
3.584		9598	5480
3.652		81757	51743
3.674		18778	9029
3.696		42729	27281
3.725		65782	35395
3.741		49700	25247
3.779		26809	24706
3.829		40377	37223
3.852		82282	49410
3.874		915256	585118
3.899		287395	173232
3.919		93096	45949
3.937		227701	137679
3.973		1285899	887337
4.005		699400	458443
4.022		111228	49393
4.083		82684	72712
4.118		496807	411883
4.145		30230	23441
4.174		888626	656462
4.207		469496	360889
4.235		2096993	1892644
4.273		379478	375762
4.327		2380141	1969587
4.363		265391	212842
4.396		1990179	1416414
4.42		635438	429985
4.463		3721263	2902590

RT B	Compound B	Height B	Area B
4.516		9899	8967
4.565		2173359	2244872
4.615		1660177	1373952
4.657		868153	739339
4.694		4891467	4052189
4.726		1159103	779676
4.764		1026621	818500
4.823		14751	8826
4.836		13114	7312
4.863		227027	143260
4.881		153378	89969
4.916		1745877	1335387
4.939		879077	630575
4.989		1071594	923390
5.025		558094	456335
5.054		391823	310677
5.087		361719	229276
5.109		4970648	4115805
5.151		108191	74615
5.182		139075	117433
5.227		5804	4099
5.246		10803	7649
5.281		11970	7415
5.301		43833	25428
5.325		879118	731465
5.369		3646236	3906596
5.422		10993	10319
5.525		49221	40199
5.569		134266	104343
5.593		23598	15227
5.616		4815	2558
5.642		617176	526510
5.684		8957	8274
5.72		5409	3315
5.748		1361872	1162978
5.78		82992	59225
5.948		300245	257404
5.993		3850	2772
6.106	DCB	207825	193162
6.143		7577	5870
6.235		2266	2965
6.309		21782	19453
6.374		4676	3639
6.526		4145	3889
6.583		9783	11257
6.906		1872	1374
7.011		12662	14859
7.116		2472	3330
7.294		1838	2579
7.556		11797	15769
7.713		2662	4234
8.045		1758	2057
8.213		22964	44331
8.424		1598	1213

9004853ACF DF100 ACA5512 T 171440031A 10225 SW-846 8082

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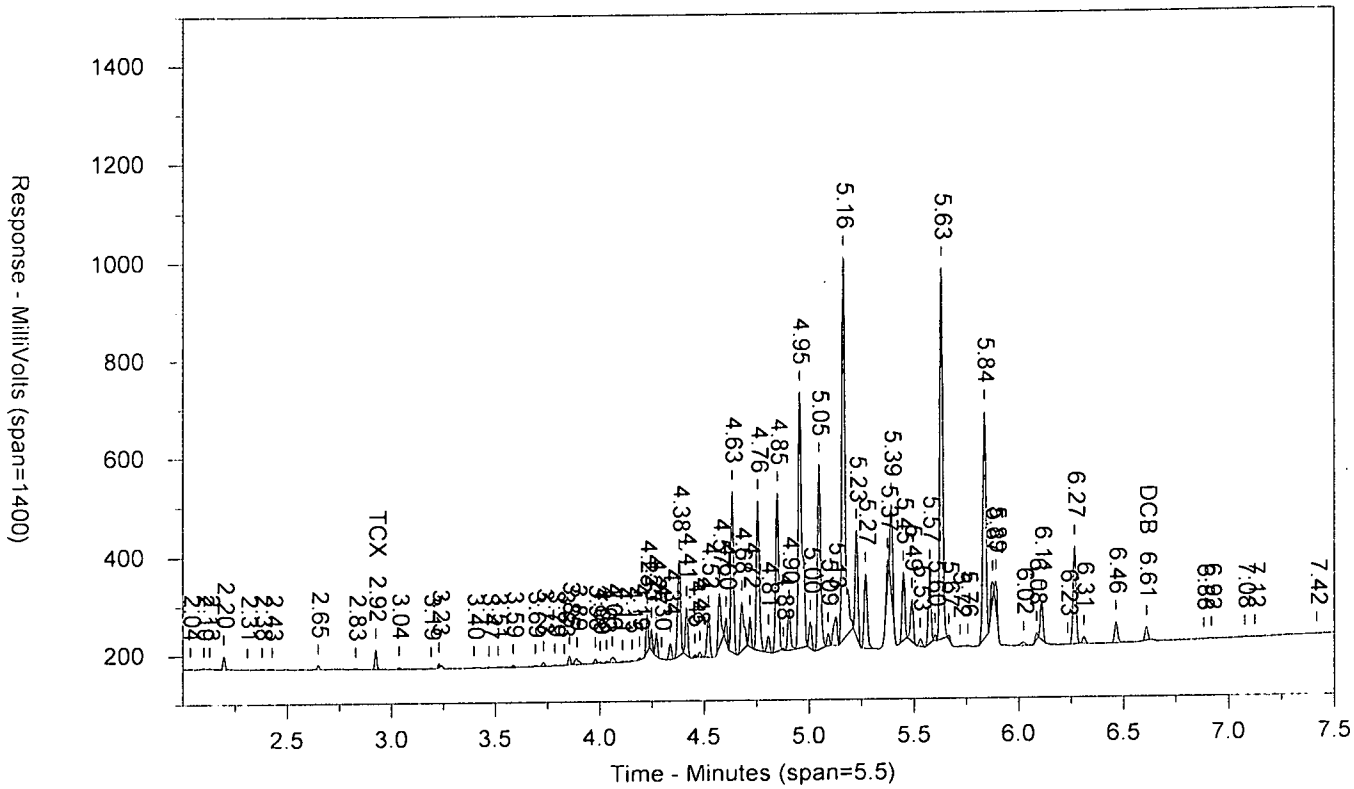

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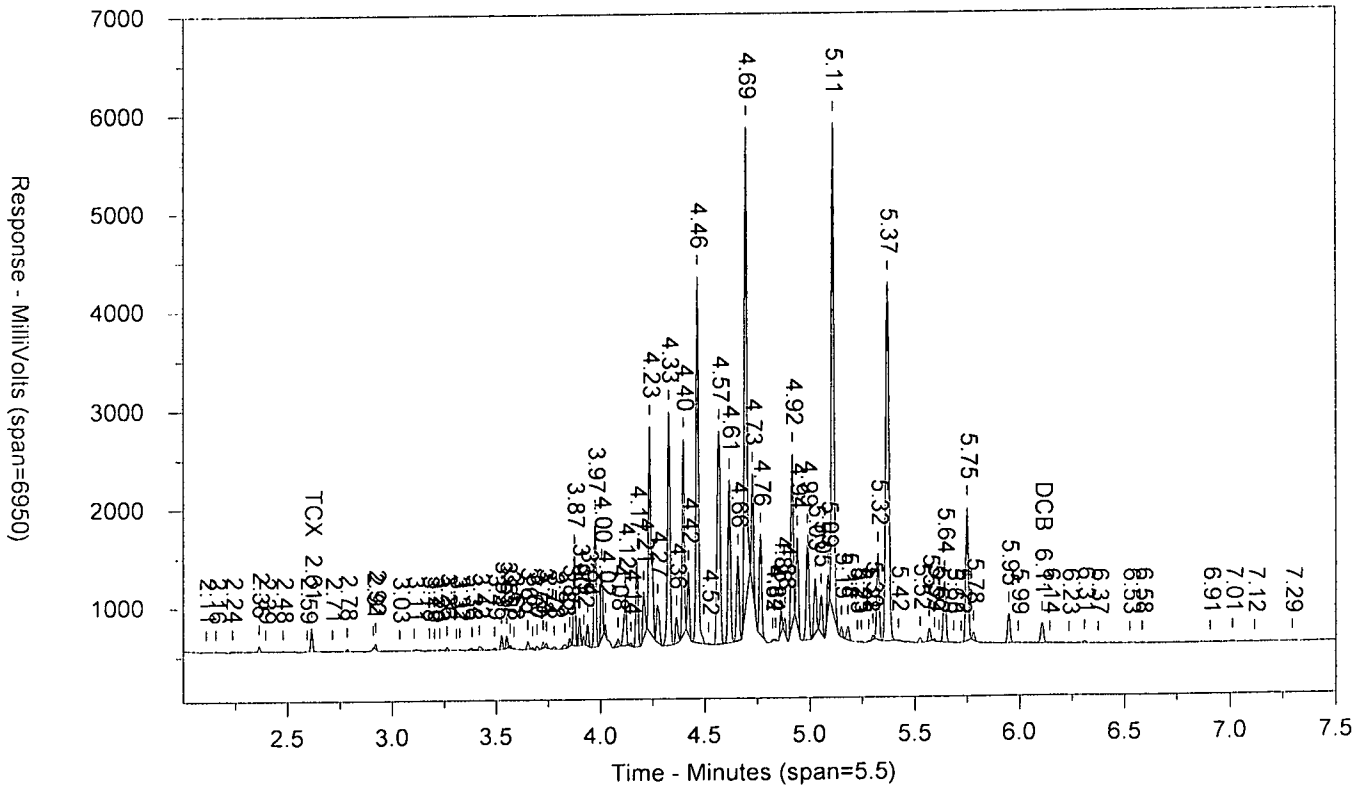

LANCASTER LABORATORIES

Sample Number: 9004853ACF DF100 ACA5512 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:26:42 PM Sample Weight: 10.04
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	40810	35.769	TCX	2.615	235310	33.903	TCX
6.61	27958	40.465	DCB	6.106	207825	42.489	DCB

Files:
Area File: 20pcbs17137009.042.RAW
Area File: 20pcbs17137009B.042.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 10:35:26 PM
File Reported On: 5/26/2017 at 10:35:37 PM

9004853ACF DF100 ACA5512 T 171440031A 10225 SW-846 8082

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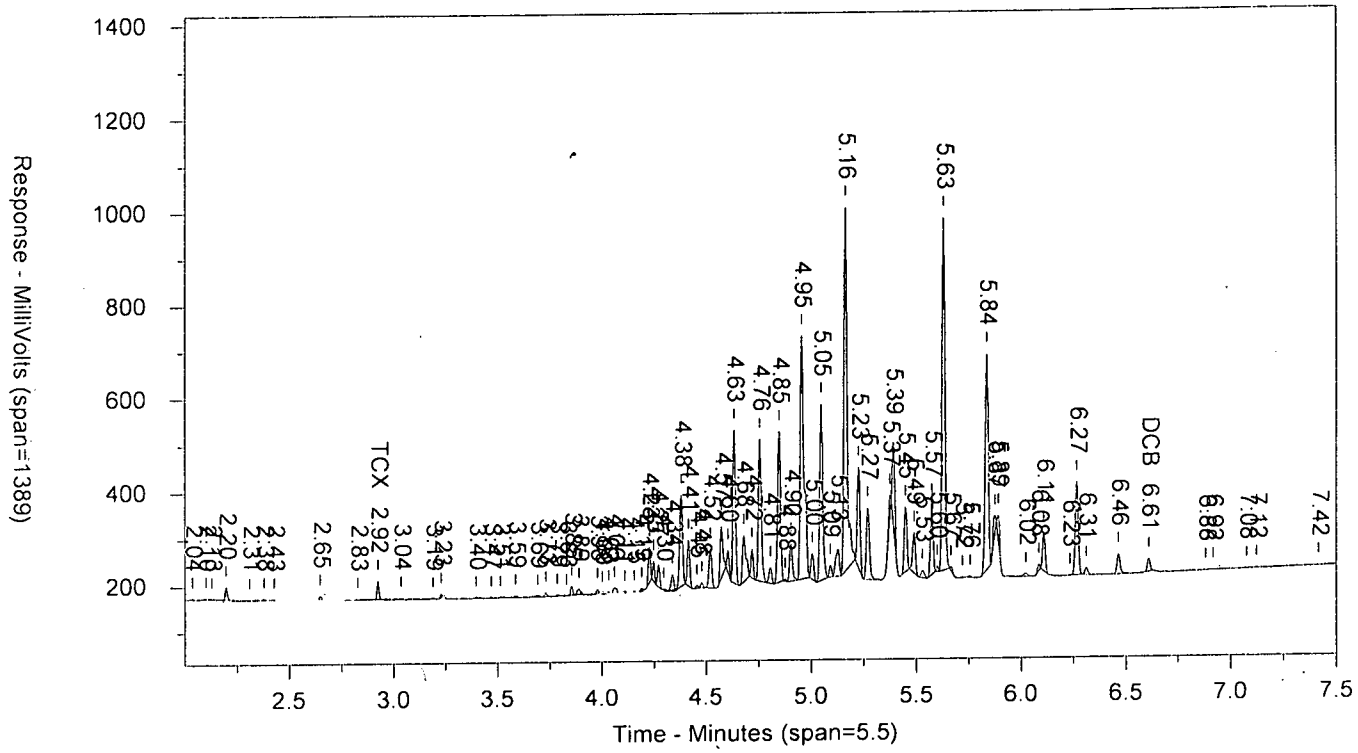

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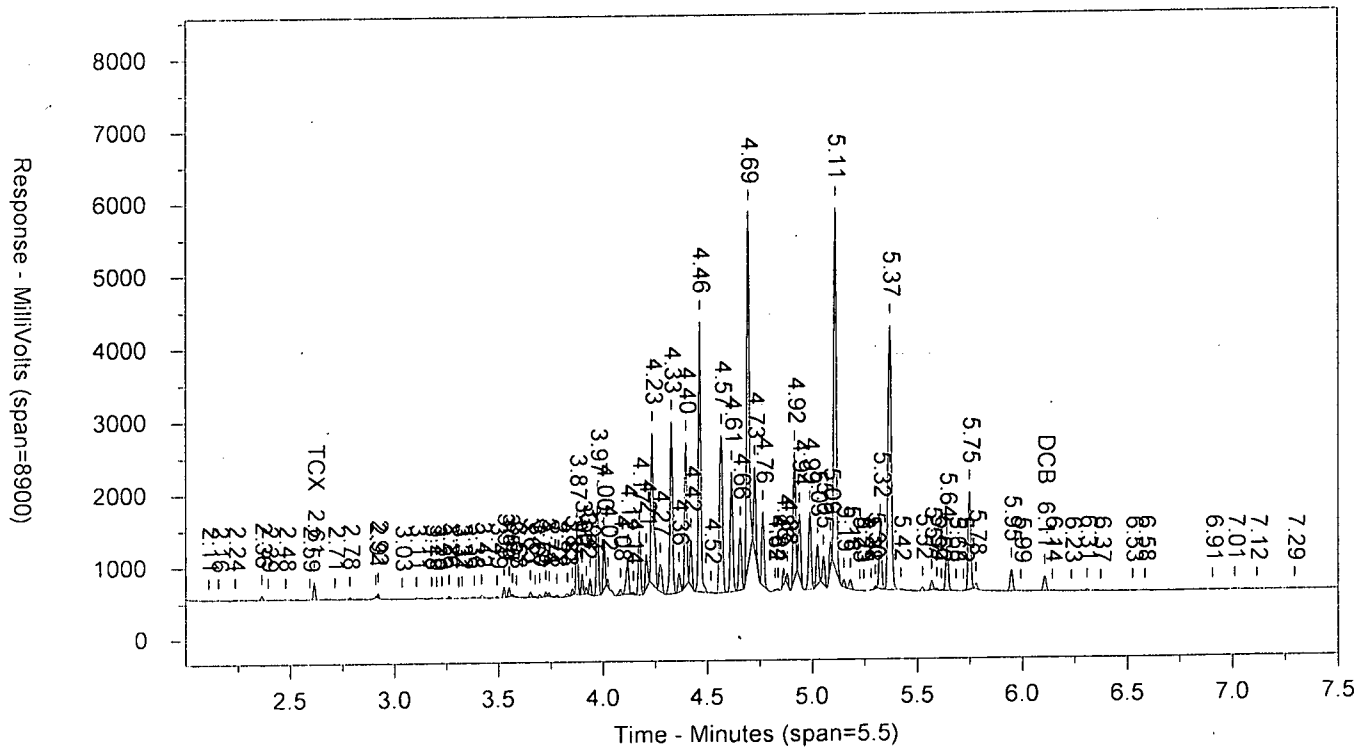

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Data Summary

Sample Name: 9004854 ACF DF100 A5513 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.29 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 22:38:15
Instrument	17342A
Result file	20PCBS17137009.043.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 120% (61 - 152) Conc: 34.09549
%SSR(DCB) 158% (48 - 164) Conc: 44.80531

Analysis Report (B)

Injected on	May 26, 2017 22:38:15
Instrument	17342B
Result file	20PCBS17137009B.043.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 115% (61 - 152) Conc: 32.79156
%SSR(DCB) 153% (48 - 164) Conc: 43.47518

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	39870	34.09549	Tetrachloro-m-xylene	2.59	2.61	2.65	233265	32.79156
Decachlorobiphenyl	6.58	6.61	6.64	31728	44.80531	Decachlorobiphenyl	6.08	6.11	6.14	217944	43.47518

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	34.09549				3.90	
☑	Decachlorobiphenyl	A	44.80531				3.01	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**41.79**	
4.73	4.76	4.77	362405	8403.69128			1
5.03	5.05	5.07	442611.4	18575.28607			2
5.20	5.23	5.24	230025.5	8244.508018			3
5.37	5.39	5.41	190619.9	5987.850117			4
5.61	5.63	5.65	803603.8	10413.439523			5
5.82	5.84	5.86	480661.6	11087.632276			6

Height summation: **2509927.2**
Concentration CF: **10452.067881** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**12.68**	
4.31	4.33	4.35	2932171	10092.659633			1
4.44	4.46	4.48	4071302	11883.344567			2
4.55	4.57	4.59	2547031	9240.11205			3
4.90	4.92	4.94	1820371	8591.301446			4
5.09	5.11	5.13	5237510	10892.186633			5
5.35	5.37	5.39	3742303	11634.055082			6

Height summation: **20350688**
Concentration CF: **10388.943235** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<4956.2683	<962.0991			4	
☑	PCB-1221			<4956.2683	<1486.8805			3	
☑	PCB-1232			<4956.2683	<1195.3353			4	
☑	PCB-1242			<4956.2683	<1195.3353			4	
☑	PCB-1248			<4956.2683	<962.0991			4	
☑	PCB-1254			<4956.2683	<1282.7989			4	
☑	PCB-1260	A	10452.067881	4956.2683	1137.0263		0.61	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004854** ACF DF100 A5513 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.29 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:38:15
Instrument : CP20--17342A
Result file : 20PCBS17137009.043.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 120% (61-152) Conc.: 34.09549
%SSR(DCB) : 158% (48-164) Conc.: 44.80531

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**101.46**	
3.37	3.39	3.41	2199.402	102.014907			2
3.49	3.51	3.53	2112.231	87.021122			3
3.71	3.73	3.75	10912.91	405.799136			4
3.76	3.79	3.80	3581.503	162.825748			5
3.96	3.98	4.00	15347.38	870.189787			6
Height Summation:			**34153.426**				
Amount Avg CF:			**325.57014**	Linear:			
Aroclor-1221					**1**		
3.06	3.08	3.10	1743.449	172.37582			1
Height Summation:			**1743.449**				
Amount Avg CF:			**172.37582**	Linear:			
Aroclor-1232					**5**	**105.96**	
3.38	3.39	3.42	2199.402	215.716041			2
3.49	3.51	3.53	2112.231	188.80576			3
3.71	3.73	3.75	10912.91	899.218535			4
3.77	3.79	3.81	3581.503	376.427588			5
3.96	3.98	4.00	15347.38	2086.705805			6
Height Summation:			**34153.426**				
Amount Avg CF:			**753.374746**	Linear:			
Aroclor-1242					**5**	**102.09**	
3.38	3.39	3.42	2199.402	123.138344			2
3.49	3.51	3.53	2112.231	107.998612			3
3.71	3.73	3.75	10912.91	496.003794			4
3.77	3.79	3.81	3581.503	207.910456			5
3.96	3.98	4.00	15347.38	1089.836568			6
Height Summation:			**34153.426**				
Amount Avg CF:			**404.977555**	Linear:			
Aroclor-1248					**6**	**170.14**	
3.76	3.79	3.80	3581.503	299.900195			1
3.83	3.86	3.87	29965.45	1379.7369			2
3.96	3.98	4.00	15347.38	600.039176			3
4.05	4.07	4.09	16883.54	794.062237			4
4.23	4.23	4.27	114812.6	4558.312296			5
+ 4.23	4.25	4.27	39102.49	1552.454704			5
4.61	4.63	4.65	390595.1	21154.609343			6
Height Summation:			**571185.573**				
Amount Avg CF:			**4797.776691**	Linear:			
Aroclor-1254					**6**	**68.99**	
4.21	4.23	4.25	114812.6	3866.137377			1
4.55	4.57	4.59	134311.6	4500.359909			2
4.61	4.63	4.65	390595.1	6480.007456			3
4.73	4.76	4.77	362405	20030.628242			4
4.83	4.85	4.87	347824.4	8731.966111			5
5.14	5.17	5.18	761987.8	18622.274343			6
Height Summation:			**2111936.5**				
Amount Avg CF:			**10371.895573**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:38:15
Instrument : CP20--17342B
Result file : 20PCBS17137009B.043.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 115% (61-152) Conc.: 32.79156
%SSR(DCB) : 153% (48-164) Conc.: 43.47518

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**85.78**	
2.88	2.91	2.92	18749.09	161.136346			1
3.21	3.23	3.25	14120.54	97.655136			2
+ 3.21	3.24	3.25	3047.819	21.078173			2
+ 3.40	3.40	3.44	6660.953	45.844513			3
3.40	3.42	3.44	42563.42	292.945961			3
3.47	3.49	3.51	34284.7	199.533254			4
3.63	3.65	3.67	130013.9	900.595763			5
+ 3.72	3.73	3.76	80546.66	651.116503			6
3.72	3.74	3.76	100689.3	813.943929			6
Height Summation:			**340420.95**				
Amount Avg CF:			**410.968398**	Linear:			
Aroclor-1221					**2**	**68.97**	
2.77	2.78	2.81	21292.12	346.743029			1
2.88	2.91	2.92	18749.09	119.399175			3
Height Summation:			**40041.21**				
Amount Avg CF:			**233.071102**	Linear:			
Aroclor-1232					**6**	**103.70**	
2.88	2.91	2.92	18749.09	131.894005			1
3.21	3.23	3.25	14120.54	205.529917			2
+ 3.21	3.24	3.25	3047.819	44.362183			2
+ 3.40	3.40	3.44	6660.953	108.368403			3
3.40	3.42	3.44	42563.42	692.472962			3
3.47	3.49	3.51	34284.7	454.009279			4
+ 3.66	3.67	3.70	30510.55	1479.443849			5
3.66	3.70	3.70	56324.11	2731.132612			5
+ 3.73	3.73	3.77	80546.66	1489.714736			6
3.73	3.74	3.77	100689.3	1862.253928			6
Height Summation:			**266731.16**				
Amount Avg CF:			**1012.882117**	Linear:			
Aroclor-1242					**6**	**87.99**	
2.88	2.91	2.92	18749.09	187.404373			1
3.21	3.23	3.25	14120.54	118.180985			2
+ 3.21	3.24	3.25	3047.819	25.508532			2
+ 3.40	3.40	3.44	6660.953	56.690567			3
3.40	3.42	3.44	42563.42	362.252127			3
3.47	3.49	3.51	34284.7	255.306764			4
3.64	3.65	3.68	130013.9	1175.895693			5
+ 3.64	3.67	3.68	30510.55	275.949143			5
+ 3.73	3.73	3.77	80546.66	813.301368			6
3.73	3.74	3.77	100689.3	1016.687042			6
Height Summation:			**340420.95**				
Amount Avg CF:			**519.287831**	Linear:			
Aroclor-1248					**6**	**166.52**	
+ 3.40	3.40	3.44	6660.953	116.238479			1
3.40	3.42	3.44	42563.42	742.762664			1
3.51	3.53	3.55	225601.8	1395.865761			2
3.63	3.65	3.67	130013.9	643.874243			3
+ 3.72	3.73	3.76	80546.66	552.436827			4
3.72	3.74	3.76	100689.3	690.587014			4
3.86	3.87	3.90	1139006	4124.396575			5
4.22	4.23	4.26	2440144	19984.404585			6
Height Summation:			**4078018.42**				
Amount Avg CF:			**4596.981807**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004854** ACF DF100 A5513 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.29 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:38:15
Instrument : CP20--17342A
Result file : 20PCBS17137009.043.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**41.79**	
4.73	4.76	4.77	362405	8403.69128			1
5.03	5.05	5.07	442611.4	18575.28607			2
5.20	5.23	5.24	230025.5	8244.508018			3
+ 5.37	5.38	5.41	30633.52	962.27585			4
5.37	5.39	5.41	190619.9	5987.850117			4
5.61	5.63	5.65	803603.8	10413.439523			5
5.82	5.84	5.86	480661.6	11087.632276			6
Height Summation:			**2509927.2**				
Amount Avg CF:			**10452.067881**	Linear:			
Aroclor-1262					**6**	**44.76**	
5.21	5.23	5.24	230025.5	4477.848492			1
+ 5.37	5.38	5.41	30633.52	738.168768			2
5.37	5.39	5.41	190619.9	4593.323152			2
5.61	5.63	5.65	803603.8	8011.76197			3
5.81	5.84	5.85	480661.6	8671.170382			4
5.87	5.87	5.91	52334.45	1905.828635			5
6.25	6.27	6.29	195171.4	5842.107447			6
Height Summation:			**1952416.65**				
Amount Avg CF:			**5583.673346**	Linear:			
Aroclor-1268					**6**	**124.73**	
5.81	5.84	5.85	480661.6	3899.477098			1
5.87	5.87	5.91	52334.45	486.61107			2
6.00	6.02	6.04	5884.096	58.673615			3
6.07	6.09	6.11	16060.86	698.558137			4
6.25	6.27	6.29	195171.4	4711.698397			5
6.45	6.47	6.49	41809.01	128.975206			6
Height Summation:			**791921.416**				
Amount Avg CF:			**1663.998921**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:38:15
Instrument : CP20--17342B
Result file : 20PCBS17137009B.043.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**67.81**	
4.16	4.18	4.19	1069164	4970.087138			1
4.22	4.23	4.26	2440144	6392.863567			2
4.31	4.33	4.35	2932171	16513.596281			3
4.38	4.40	4.42	2211386	8618.345381			4
4.44	4.46	4.48	4071302	27553.028165			5
4.60	4.62	4.64	1901562	10563.392495			6
Height Summation:			**14625729**				
Amount Avg CF:			**12435.218838**	Linear:			
Aroclor-1260					**6**	**12.68**	
4.31	4.33	4.35	2932171	10092.659633			1
4.44	4.46	4.48	4071302	11883.344567			2
4.55	4.57	4.59	2547031	9240.11205			3
4.90	4.92	4.94	1820371	8591.301446			4
5.09	5.11	5.13	5237510	10892.186633			5
5.35	5.37	5.39	3742303	11634.055082			6
Height Summation:			**20350688**				
Amount Avg CF:			**10388.943235**	Linear:			
Aroclor-1262					**6**	**39.46**	
4.71	4.73	4.75	1188633	3563.857079			1
4.90	4.92	4.94	1820371	5486.805704			2
5.09	5.11	5.13	5237510	8299.518343			3
5.31	5.33	5.35	857883.4	3280.700005			4
5.35	5.37	5.39	3742303	8891.164591			5
5.73	5.75	5.77	1353154	5940.406618			6
Height Summation:			**14199854.4**				
Amount Avg CF:			**5910.408723**	Linear:			
Aroclor-1268					**6**	**126.56**	
5.31	5.33	5.35	857883.4	1007.335484			1
5.35	5.37	5.39	3742303	4340.179181			2
5.51	5.53	5.55	44916.47	60.635054			3
5.57	5.59	5.61	25517.76	142.477714			4
5.73	5.75	5.77	1353154	4662.23685			5
5.93	5.95	5.97	287076.1	130.144168			6
Height Summation:			**6310850.73**				
Amount Avg CF:			**1723.834742**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			4956.2683	962.0991		23.19	4	40	
Aroclor-1221			4956.2683	1486.8805		29.94	3	5	
Aroclor-1232			4956.2683	1195.3353		29.39	4	10	
Aroclor-1242			4956.2683	1195.3353		24.74	4	30	
Aroclor-1248			4956.2683	962.0991		4.27	4	40	
Aroclor-1254			4956.2683	1282.7989		18.09	4	40	
Aroclor-1260			4956.2683	1137.0263		0.61	4	40	
Aroclor-1262			4956.2683	962.0991		5.69	4	40	
Aroclor-1268			4956.2683	962.0991		3.53	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004854ACF DF100 ACA5513 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:38:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.043.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.036		1612	2195
2.098		1571	2649
2.128		1213	923
2.197		22444	15891
2.31		1651	1233
2.379		2279	2908
2.425		1083	766
2.648		9252	7748
2.731		1124	935
2.828		1635	2177
2.924	TCX	39870	24928
3.036		3001	1989
3.077		1743	1711
3.229		9497	5076
3.313		1078	968
3.394		2199	1714
3.466		2607	2748
3.513		2112	1231
3.587		5427	3839
3.693		4410	5824
3.73		10913	8885
3.786		3582	2963
3.827		601	496
3.855		29965	22030
3.889		18448	26499
3.979		15347	11010
4.004		3066	1854
4.034		6517	4432
4.068		16884	20518
4.111		3738	3021
4.156		1868	1960
4.19		6387	4672
4.228		114813	85987
4.248		39102	21984
4.271		71023	54295
4.297		2035	1097
4.338		42871	36353
4.381		267021	256553
4.415		115692	96531
4.456		7543	5174
4.479		12829	9267
4.52		104005	97705
4.573		134312	129927
4.604		57298	37963
4.634		390595	333425
4.68		125795	142619
4.718		74362	58768
4.757		362405	353812
4.807		39124	35514
4.848		347824	342551
4.876		5348	2827
4.904		82182	79527
4.957		568645	713672
5.006		67114	57827

RT A	Compound A	Height A	Area A
5.049		442611	435051
5.092		28407	21437
5.129		58478	72746
5.165		761988	695738
5.187		30774	14757
5.227		230026	197939
5.27		175146	174812
5.376		30634	30366
5.392		190620	147881
5.451		146882	134337
5.491		93256	87065
5.53		16376	15255
5.576		156176	143662
5.601		10048	5632
5.631		803604	766661
5.721		1558	1778
5.839		480662	472961
5.874		52334	50239
6.023		5884	7515
6.086		16061	11966
6.109		77001	70883
6.267		195171	196454
6.312		13578	13223
6.466		41809	41542
6.612	DCB	31728	34430
6.92		850	3364
8.683		1789	1714

LANCASTER LABORATORIES

Sample Number: 9004854ACF DF100 ACA5513 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:38:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.043.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.036		4337	3523
2.156		16290	28274
2.246		13348	33110
2.363		62516	48093
2.451		4528	3751
2.541		4405	3078
2.564		3396	2285
2.6		1098	988
2.614	TCX	233265	133773
2.703		3076	5017
2.737		3645	3001
2.784		21292	13868
2.826		5425	10365
2.911		18749	8666
2.921		62068	27292
3.002		5603	8155
3.105		15459	33304
3.177		16566	14449
3.227		14121	8592
3.244		3048	1117
3.263		40644	24764
3.309		3149	1809
3.325		10241	6429
3.383		31045	25188
3.404		6661	2365
3.418		42563	39223
3.492		34285	23407
3.526		225602	136185
3.55		183669	104160
3.567		51219	23557
3.584		10755	5883
3.653		130014	82552
3.675		30511	16083
3.697		56324	37787
3.726		80547	41796
3.741		100689	51486
3.781		37441	33355
3.829		47332	47380
3.852		154798	90072
3.874		1139007	751551
3.9		431705	252438
3.919		124513	63311
3.938		280012	172658
3.973		1736717	1166996
4.005		903224	584623
4.023		147138	65634
4.084		97543	82582
4.118		640492	505074
4.146		50314	35438
4.175		1069164	804580
4.208		537507	425051
4.235		2440144	2207970
4.274		458452	455007
4.327		2932171	2303296

RT B	Compound B	Height B	Area B
4.364		296592	231621
4.396		2211387	1576146
4.42		676220	458341
4.463		4071303	3207033
4.517		22896	16411
4.566		2547031	2530033
4.615		1901562	1581037
4.656		858820	751269
4.694		4848944	4189142
4.727		1188633	802591
4.765		1158607	902783
4.824		31098	39245
4.865		227183	154601
4.882		134839	82360
4.916		1820371	1382614
4.939		859662	612875
4.99		1038806	948063
5.025		626019	507017
5.056		412559	329968
5.087		452730	289348
5.11		5237510	4302386
5.152		113704	82089
5.183		142140	114080
5.247		7316	4901
5.302		42389	26748
5.326		857883	717260
5.37		3742303	3991639
5.526		44916	38086
5.571		135387	103547
5.594		25518	16742
5.643		603968	527002
5.723		2076	1281
5.75		1353154	1167886
5.782		74414	55880
5.949		287076	262528
6.107	DCB	217944	202124
6.283		6038	5382
6.311		4327	4226
6.422		2589	2697
6.634		2007	1553
7.019		2063	2197
7.307		2300	2089
7.478		2088	3834
7.558		3507	7307
7.992		1618	3116
8.042		1741	2126
8.214		22008	39264

9004854ACF DF100 ACA5513 T 171440031A 10225 SW-846 8082

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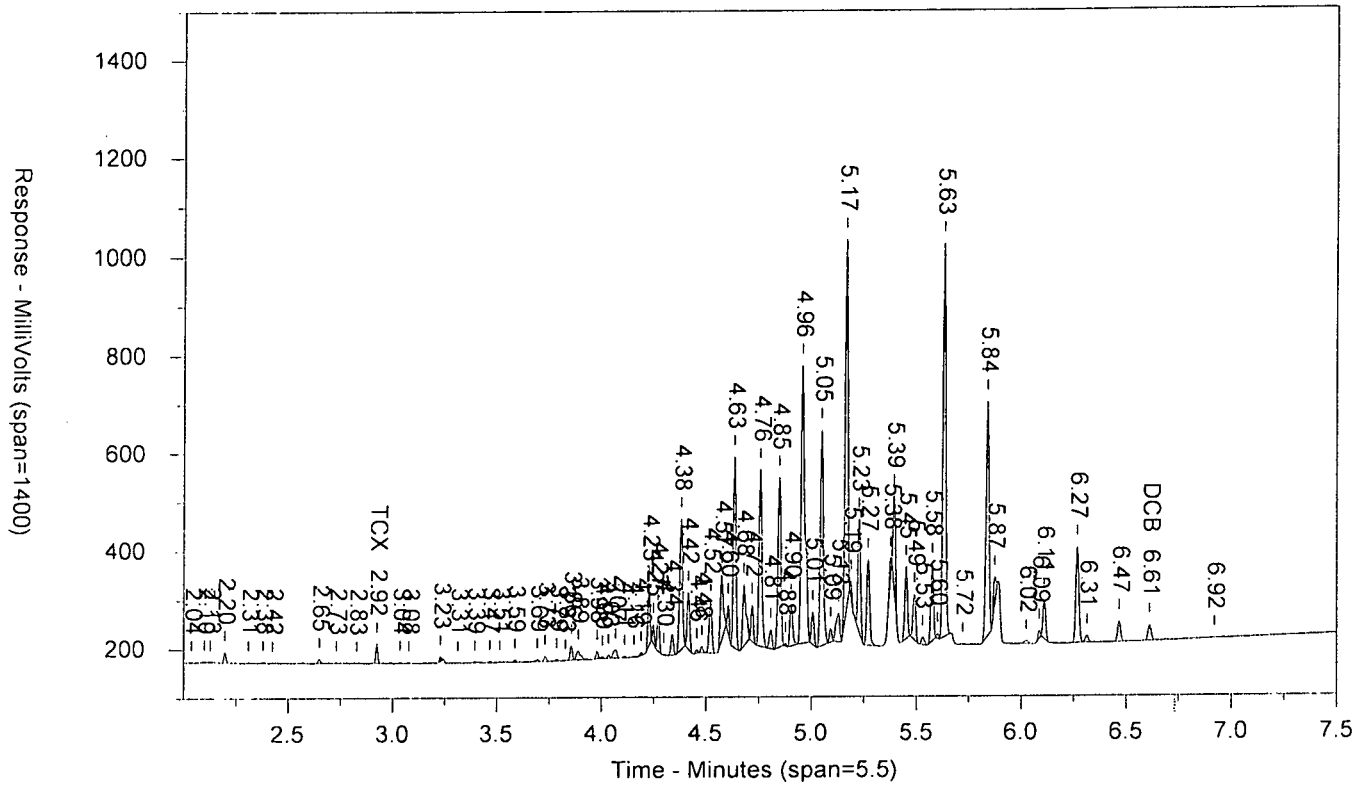

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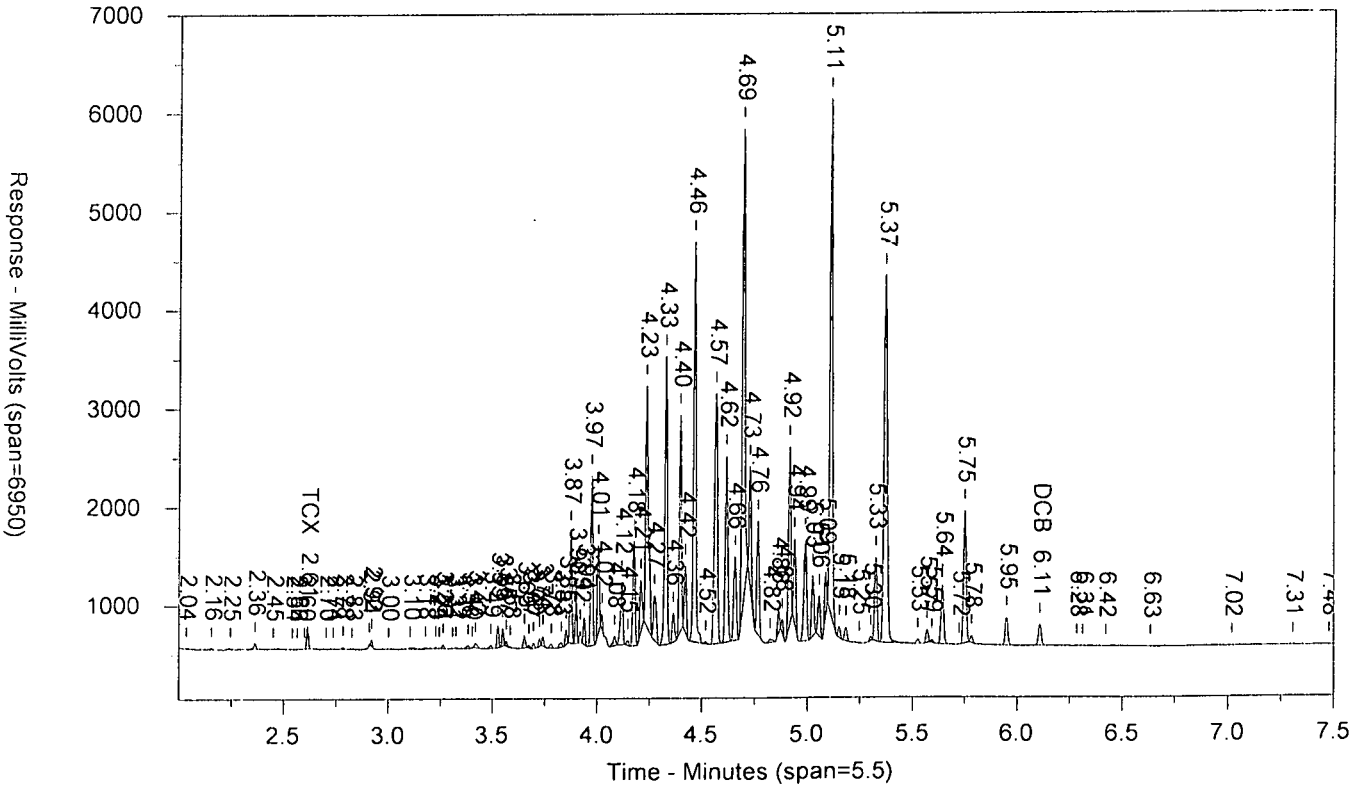

LANCASTER LABORATORIES

Sample Number: 9004854ACF DF100 ACA5513 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:38:15 PM Sample Weight: 10.29
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	39870	34.095	TCX	2.614	233265	32.792	TCX
6.612	31728	44.805	DCB	6.107	217944	43.475	DCB

Files:
Area File: 20pcbs17137009.043.RAW
Area File: 20pcbs17137009B.043.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 10:47:00 PM
File Reported On: 5/26/2017 at 10:47:07 PM

9004854ACF DF100 ACA5513 T 171440031A 10225 SW-846 8082

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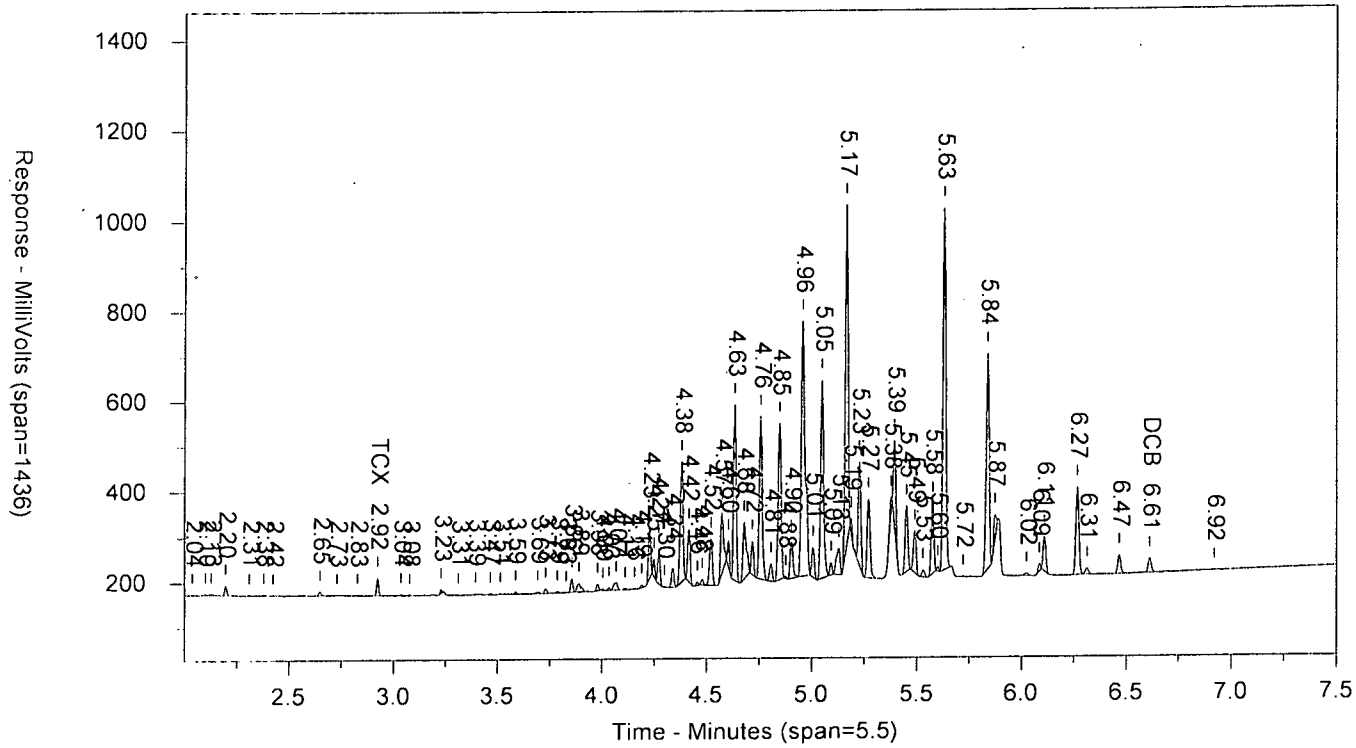

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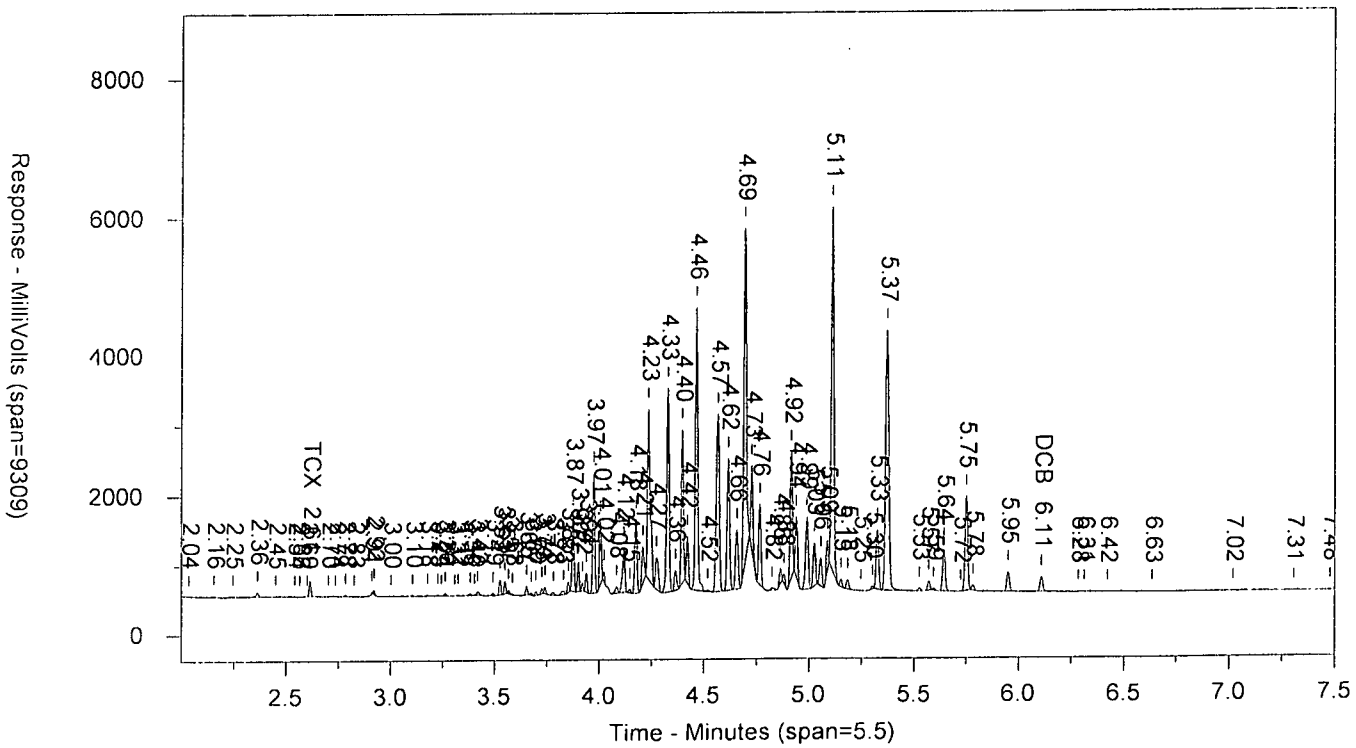

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Data Summary

Sample Name: 9004855 ACF DF100 A5514 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.12 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 22:49:44
Instrument	17342A
Result file	20PCBS17137009.044.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 122% (61 - 152) Conc: 35.18584
%SSR(DCB) * 168% (48 - 164) Conc: 48.70132

Analysis Report (B)

Injected on	May 26, 2017 22:49:44
Instrument	17342B
Result file	20PCBS17137009B.044.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 114% (61 - 152) Conc: 32.96198
%SSR(DCB) * 167% (48 - 164) Conc: 48.31113

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	40465	35.18584
Decachlorobiphenyl	6.58	6.61	6.64	33917	48.70132

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	230604	32.96198
Decachlorobiphenyl	6.08	6.11	6.14	238186	48.31113

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	35.18584				6.53	
☑ Decachlorobiphenyl	A	48.70132				0.80	

Multiple Component Data

Aroclor-1260 (%RSD 52.87)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.76	4.77	488699.5	11522.657836		1
5.03	5.05	5.07	684180.7	29195.680116		2
5.20	5.23	5.24	277780.7	10123.383552		3
5.37	5.39	5.41	227042.3	7251.775044		4
5.61	5.63	5.65	1084715	14292.319809		5
5.82	5.84	5.86	641740.2	15051.975189		6

Height summation: **3404158.4**
Concentration CF: **14572.965258** L:

Aroclor-1260 (%RSD 14.58)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	3853904	13488.140702		1
4.44	4.46	4.48	5397678	16019.435448		2
4.55	4.56	4.59	3559453	13129.891338		3
4.90	4.92	4.94	2229973	10701.225514		4
5.09	5.11	5.13	7026094	14857.270385		5
5.35	5.37	5.39	5082002	16064.302065		6

Height summation: **27149104**
Concentration CF: **14043.377575** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<5039.5257	<978.2609			4	
☑ PCB-1221			<5039.5257	<1511.8577			3	
☑ PCB-1232			<5039.5257	<1215.415			4	
☑ PCB-1242			<5039.5257	<1215.415			4	
☑ PCB-1248			<5039.5257	<978.2609			4	
☑ PCB-1254			<5039.5257	<1304.3478			4	
☑ PCB-1260	A	14572.965258	5039.5257	1156.1265		3.70	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004855** ACF DF100 A5514 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.12 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:49:44
Instrument : CP20--17342A
Result file : 20PCBS17137009.044.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 122% (61-152) Conc.: 35.18584
%SSR(DCB) : *168% (48-164) Conc.: 48.70132

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**110.67**	
3.16	3.18	3.20	1965.371	94.648441			1
3.37	3.40	3.41	2753.725	129.871678			2
3.49	3.51	3.53	2945.013	123.368801			3
3.71	3.73	3.75	17421.24	658.695157			4
3.76	3.79	3.80	5391.825	249.246123			5
3.96	3.98	4.00	22001.64	1268.439192			6
Height Summation:			**52478.814**				
Amount Avg CF:			**420.711565**	Linear:			
Aroclor-1221					**2**	**59.05**	
3.06	3.07	3.10	1712.622	172.172378			1
3.16	3.18	3.20	1965.371	70.745296			3
Height Summation:			**3677.993**				
Amount Avg CF:			**121.458837**	Linear:			
Aroclor-1232					**6**	**119.63**	
3.16	3.18	3.20	1965.371	78.867948			1
3.38	3.40	3.42	2753.725	274.620691			2
3.49	3.51	3.53	2945.013	267.667662			3
3.71	3.73	3.75	17421.24	1459.615957			4
3.77	3.79	3.81	5391.825	576.21794			5
3.96	3.98	4.00	22001.64	3041.703619			6
Height Summation:			**52478.814**				
Amount Avg CF:			**949.782303**	Linear:			
Aroclor-1242					**6**	**111.63**	
3.16	3.18	3.20	1965.371	110.482774			1
3.38	3.40	3.42	2753.725	156.763201			2
3.49	3.51	3.53	2945.013	153.108338			3
3.71	3.73	3.75	17421.24	805.115802			4
3.77	3.79	3.81	5391.825	318.259709			5
3.96	3.98	4.00	22001.64	1588.609101			6
Height Summation:			**52478.814**				
Amount Avg CF:			**522.056488**	Linear:			
Aroclor-1248					**6**	**171.80**	
3.76	3.79	3.80	5391.825	459.073347			1
3.83	3.86	3.87	52640.71	2464.518462			2
3.96	3.98	4.00	22001.64	874.651965			3
4.05	4.07	4.09	27862.12	1332.416654			4
4.23	4.23	4.27	182271.2	7358.129705			5
+ 4.23	4.25	4.27	80949.59	3267.864494			5
4.61	4.63	4.65	650014.7	35796.145071			6
Height Summation:			**940182.195**				
Amount Avg CF:			**8047.489201**	Linear:			
Aroclor-1254					**6**	**59.73**	
4.21	4.23	4.25	182271.2	6240.805464			1
4.55	4.57	4.59	255468	8703.723677			2
4.61	4.63	4.65	650014.7	10964.952516			3
4.73	4.76	4.77	488699.5	27464.844648			4
4.83	4.85	4.87	628450.1	16041.968486			5
5.14	5.16	5.18	1184024	29422.533784			6
Height Summation:			**3388927.5**				
Amount Avg CF:			**16473.138096**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:49:44
Instrument : CP20--17342B
Result file : 20PCBS17137009B.044.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 114% (61-152) Conc.: 32.96198
%SSR(DCB) : *167% (48-164) Conc.: 48.31113

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**87.56**	
2.88	2.91	2.92	15349.11	134.131684			1
3.21	3.23	3.25	21453.95	150.864101			2
+ 3.40	3.40	3.44	10244.45	71.692629			3
3.40	3.42	3.44	72383.18	506.5514			3
3.47	3.49	3.51	41490.13	245.524361			4
3.63	3.65	3.67	172327.1	1213.748079			5
+ 3.72	3.73	3.76	116104	954.31821			6
3.72	3.74	3.76	141511.8	1163.157925			6
Height Summation:			**464515.27**				
Amount Avg CF:			**568.996258**	Linear:			
Aroclor-1221					**2**	**99.58**	
2.77	2.78	2.81	34573.16	572.483233			1
2.88	2.91	2.92	15349.11	99.389199			3
Height Summation:			**49922.27**				
Amount Avg CF:			**335.936216**	Linear:			
Aroclor-1232					**6**	**103.94**	
2.88	2.91	2.92	15349.11	109.790035			1
3.21	3.23	3.25	21453.95	317.516185			2
+ 3.40	3.40	3.44	10244.45	169.468823			3
3.40	3.42	3.44	72383.18	1197.398819			3
3.47	3.49	3.51	41490.13	558.655442			4
+ 3.66	3.68	3.70	36430.82	1796.189937			5
3.66	3.70	3.70	79694.13	3929.249859			5
+ 3.73	3.73	3.77	116104	2183.421698			6
3.73	3.74	3.77	141511.8	2661.234193			6
Height Summation:			**371882.3**				
Amount Avg CF:			**1462.307422**	Linear:			
Aroclor-1242					**6**	**89.33**	
2.88	2.91	2.92	15349.11	155.997482			1
3.21	3.23	3.25	21453.95	182.573788			2
+ 3.40	3.40	3.44	10244.45	88.653919			3
3.40	3.42	3.44	72383.18	626.393077			3
3.47	3.49	3.51	41490.13	314.153299			4
3.64	3.65	3.68	172327.1	1584.774431			5
+ 3.73	3.73	3.77	116104	1192.026777			6
3.73	3.74	3.77	141511.8	1452.885816			6
Height Summation:			**464515.27**				
Amount Avg CF:			**719.462982**	Linear:			
Aroclor-1248					**6**	**170.42**	
+ 3.40	3.40	3.44	10244.45	181.776216			1
3.40	3.42	3.44	72383.18	1284.357925			1
3.51	3.53	3.55	354549	2230.551328			2
3.63	3.65	3.67	172327.1	867.760161			3
+ 3.72	3.73	3.76	116104	809.686933			4
3.72	3.74	3.76	141511.8	986.876036			4
3.86	3.87	3.90	1897319	6985.695059			5
4.22	4.23	4.26	4173910	34757.91365			6
Height Summation:			**6812000.08**				
Amount Avg CF:			**7852.19236**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004855** ACF DF100 A5514 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.12 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 22:49:44
Instrument : CP20--17342A
Result file : 20PCBS17137009.044.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	52.87	
4.73	4.76	4.77	488699.5	11522.657836			1
5.03	5.05	5.07	684180.7	29195.680116			2
5.20	5.23	5.24	277780.7	10123.383552			3
+ 5.37	5.38	5.41	78329.06	2501.84535			4
5.37	5.39	5.41	227042.3	7251.775044			4
5.61	5.63	5.65	1084715	14292.319809			5
5.82	5.84	5.86	641740.2	15051.975189			6
Height Summation:			**3404158.4**				
Amount Avg CF:			**14572.965258**	Linear:			
Aroclor-1262					6	48.32	
5.21	5.23	5.24	277780.7	5498.324178			1
+ 5.37	5.38	5.41	78329.06	1919.183671			2
5.37	5.39	5.41	227042.3	5562.889109			2
5.61	5.63	5.65	1084715	10996.046413			3
5.81	5.84	5.85	641740.2	11771.516064			4
5.87	5.87	5.91	65733.8	2433.995578			5
+ 5.87	5.89	5.91	54199.1	2006.887929			5
6.25	6.27	6.29	275857.1	8395.999253			6
Height Summation:			**2572869.1**				
Amount Avg CF:			**7443.128433**	Linear:			
Aroclor-1268					6	125.07	
5.81	5.84	5.85	641740.2	5293.721065			1
5.87	5.87	5.91	65733.8	621.466784			2
+ 5.87	5.89	5.91	54199.1	512.414319			2
6.00	6.02	6.04	8361.16	84.774355			3
6.07	6.08	6.11	23777.02	1051.540598			4
6.25	6.27	6.29	275857.1	6771.429075			5
6.45	6.47	6.49	61213.93	192.00895			6
Height Summation:			**1076683.21**				
Amount Avg CF:			**2335.823471**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 22:49:44
Instrument : CP20--17342B
Result file : 20PCBS17137009B.044.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	54.32	
4.16	4.17	4.19	1869768	8837.761168			1
4.22	4.23	4.26	4173910	11118.800108			2
4.31	4.33	4.35	3853904	22069.277894			3
4.38	4.40	4.42	3907443	15484.131552			4
4.44	4.46	4.48	5397678	37143.074797			5
4.60	4.61	4.64	3138735	17728.926488			6
Height Summation:			**22341438**				
Amount Avg CF:			**18730.328668**	Linear:			
Aroclor-1260					6	14.58	
4.31	4.33	4.35	3853904	13488.140702			1
4.44	4.46	4.48	5397678	16019.435448			2
4.55	4.56	4.59	3559453	13129.891338			3
4.90	4.92	4.94	2229973	10701.225514			4
5.09	5.11	5.13	7026094	14857.270385			5
5.35	5.37	5.39	5082002	16064.302065			6
Height Summation:			**27149104**				
Amount Avg CF:			**14043.377575**	Linear:			
Aroclor-1262					6	44.11	
4.71	4.73	4.75	1360134	4146.570514			1
4.90	4.92	4.94	2229973	6834.301596			2
5.09	5.11	5.13	7026094	11320.792807			3
5.31	5.32	5.35	1069317	4157.95312			4
5.35	5.37	5.39	5082002	12276.919156			5
5.73	5.75	5.77	1932413	8625.886915			6
Height Summation:			**18699933**				
Amount Avg CF:			**7893.737351**	Linear:			
Aroclor-1268					6	128.16	
5.31	5.32	5.35	1069317	1276.69513			1
5.35	5.37	5.39	5082002	5992.918969			2
5.51	5.52	5.55	54720.87	75.111427			3
5.57	5.59	5.61	40669.01	230.888793			4
5.73	5.75	5.77	1932413	6769.894795			5
5.93	5.95	5.97	423245.9	195.099113			6
Height Summation:			**8602367.78**				
Amount Avg CF:			**2423.434704**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			5039.5257	978.2609		29.97	4	40	
Aroclor-1221			5039.5257	1511.8577		** 93.78	3	5	
Aroclor-1232			5039.5257	1215.415		** 42.50	4	10	
Aroclor-1242			5039.5257	1215.415		31.80	4	30	
Aroclor-1248			5039.5257	978.2609		2.46	4	40	
Aroclor-1254			5039.5257	1304.3478		12.82	4	40	
Aroclor-1260			5039.5257	1156.1265		3.70	4	40	
Aroclor-1262			5039.5257	978.2609		5.88	4	40	
Aroclor-1268			5039.5257	978.2609		3.68	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004855ACF DF100 ACA5514 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:49:44 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.044.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		3965	4588
2.093		1821	2480
2.197		69944	51692
2.378		2131	2439
2.492		939	1101
2.647		26919	17907
2.825		1256	1594
2.924	TCX	40465	26932
3.037		4810	3116
3.075		1713	2812
3.183		1965	2344
3.23		3919	2348
3.243		3007	1279
3.397		2754	1907
3.467		3140	2440
3.513		2945	2163
3.587		8316	5617
3.694		6078	7947
3.73		17421	13533
3.785		5392	4248
3.855		52641	38047
3.888		25550	31653
3.979		22002	16112
4.003		3036	1724
4.033		9302	6542
4.068		27862	32200
4.11		4109	3210
4.155		3133	3121
4.19		8763	6202
4.227		182271	136893
4.248		80950	47681
4.271		109753	83409
4.338		69149	58652
4.381		428894	422196
4.415		197660	160254
4.455		9771	6991
4.479		21706	16364
4.52		171783	158670
4.573		255468	225002
4.604		103809	69998
4.634		650015	569671
4.679		144412	172168
4.718		118824	92881
4.756		488700	484670
4.807		64297	57992
4.848		628450	583703
4.876		8748	5060
4.904		112042	96624
4.956		815854	1025488
5.006		74013	65030
5.049		684181	661927
5.092		47920	37526
5.128		84620	109380
5.164		1184024	1052108

RT A	Compound A	Height A	Area A
5.186		54481	26380
5.227		277781	241641
5.27		229312	233823
5.375		78329	60413
5.392		227042	171768
5.45		181253	165041
5.49		129340	116977
5.531		21611	19379
5.574		239769	219184
5.6		19671	11246
5.631		1084715	1046973
5.668		14068	9224
5.718		3564	3520
5.755		1398	1113
5.798		822	532
5.838		641740	655682
5.874		65734	62830
5.89		54199	45546
6.023		8361	9948
6.084		23777	17484
6.109		103689	95504
6.266		275857	277743
6.312		20124	19467
6.466		61214	63764
6.612	DCB	33917	37357
6.69		1260	1341
6.774		718	302
7.191		741	635
8.031		1204	1176
8.383		856	422

LANCASTER LABORATORIES

Sample Number: 9004855ACF DF100 ACA5514 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:49:44 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.044.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.094		2408	1335
2.156		8049	15012
2.238		12834	30322
2.363		163724	107927
2.474		4151	10116
2.562		3106	2874
2.614	TCX	230604	144988
2.687		1996	1808
2.784		34573	18860
2.809		2933	1328
2.827		3383	3139
2.91		15349	5794
2.921		31877	13792
3.005		3547	3338
3.068		1982	825
3.105		11673	5379
3.15		1487	751
3.177		18506	11228
3.201		5101	2533
3.227		21454	13445
3.263		61698	36811
3.309		5260	3043
3.324		9374	4550
3.383		37146	31690
3.404		10244	4556
3.418		72383	65004
3.492		41490	28405
3.526		354549	219019
3.55		240246	137792
3.567		52441	24181
3.584		15908	8418
3.652		172327	109923
3.675		36431	18912
3.696		79694	51684
3.725		116104	59125
3.741		141512	74395
3.779		48833	43783
3.828		65381	66861
3.852		203267	121022
3.875		1897319	1232401
3.9		597730	358671
3.919		182568	94117
3.938		426940	257177
3.973		2638043	1768958
4.005		1294398	861673
4.022		258890	120417
4.083		155762	123760
4.118		972794	774264
4.146		49978	36020
4.175		1869768	1367056
4.207		904215	667599
4.235		4173910	3347561
4.274		578746	588357
4.327		3853904	3067916

RT B	Compound B	Height B	Area B
4.363		443122	348012
4.396		3907443	2645995
4.421		876835	601325
4.463		5397678	4104347
4.487		46713	22264
4.517		13358	10094
4.565		3559453	3357300
4.615		3138735	2478812
4.656		1170363	1023604
4.694		7641572	6373148
4.726		1360134	905251
4.765		1506793	1150632
4.824		54461	66080
4.864		281556	174648
4.881		250905	149157
4.916		2229973	1638735
4.939		1435002	1048166
4.989		1301875	1152550
5.025		824637	669359
5.055		505809	401719
5.087		798180	512413
5.109		7026094	5668070
5.151		171184	114733
5.182		171170	141552
5.248		15571	10401
5.28		11869	7465
5.301		55414	32017
5.325		1069317	884677
5.369		5082002	5482194
5.467		4878	4948
5.525		54721	47236
5.569		194886	157505
5.593		40669	26200
5.642		810701	711730
5.681		3230	4048
5.749		1932413	1628415
5.78		129754	92920
5.948		423246	366135
5.994		3426	2398
6.107	DCB	238186	206792
6.281		6141	4775
6.309		3954	3478
6.585		2489	2721
7.012		7055	8870
7.128		2313	1940
7.429		2105	3697
7.556		4624	5915
7.849		2660	5645
7.995		1761	3697
8.216		21637	38363
8.319		1413	641

9004855ACF DF100 ACA5514 T 171440031A 10225 SW-846 8082

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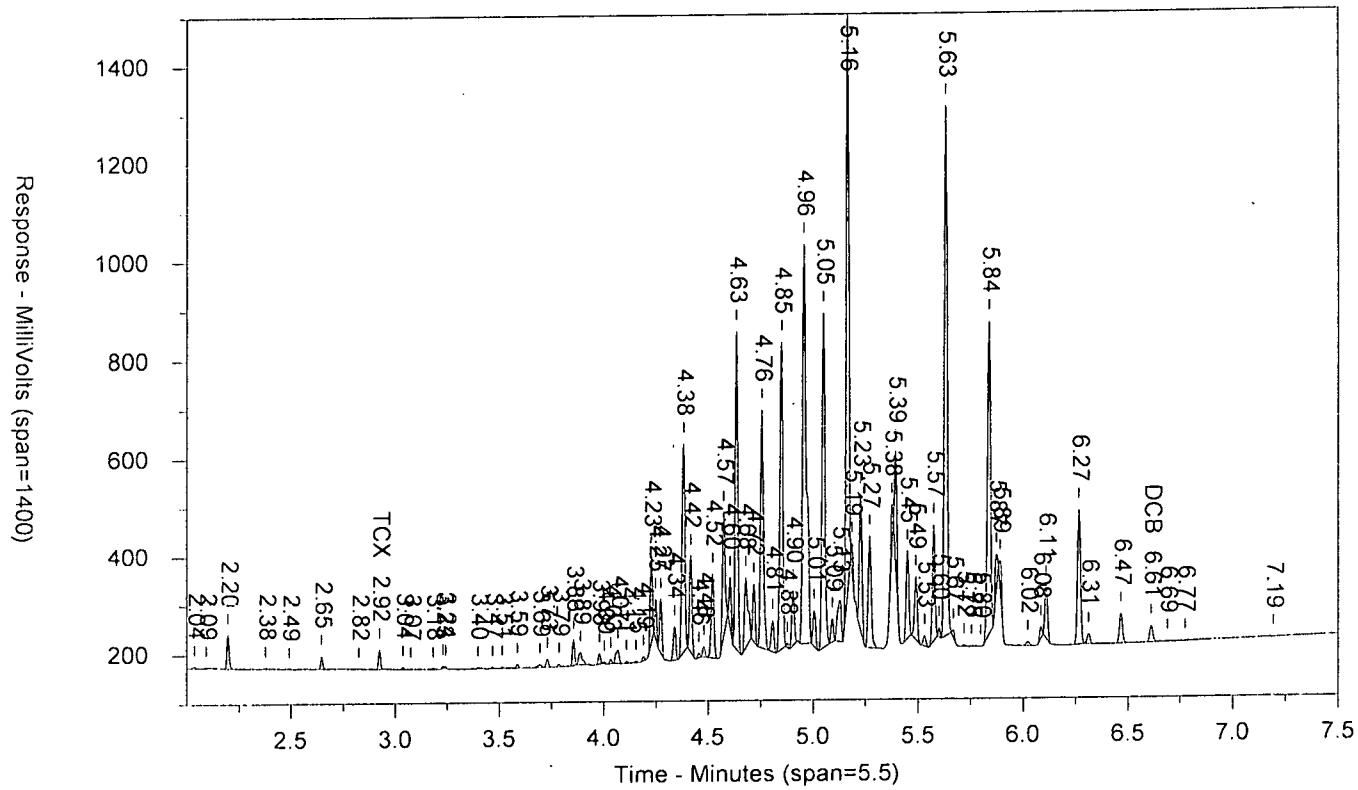

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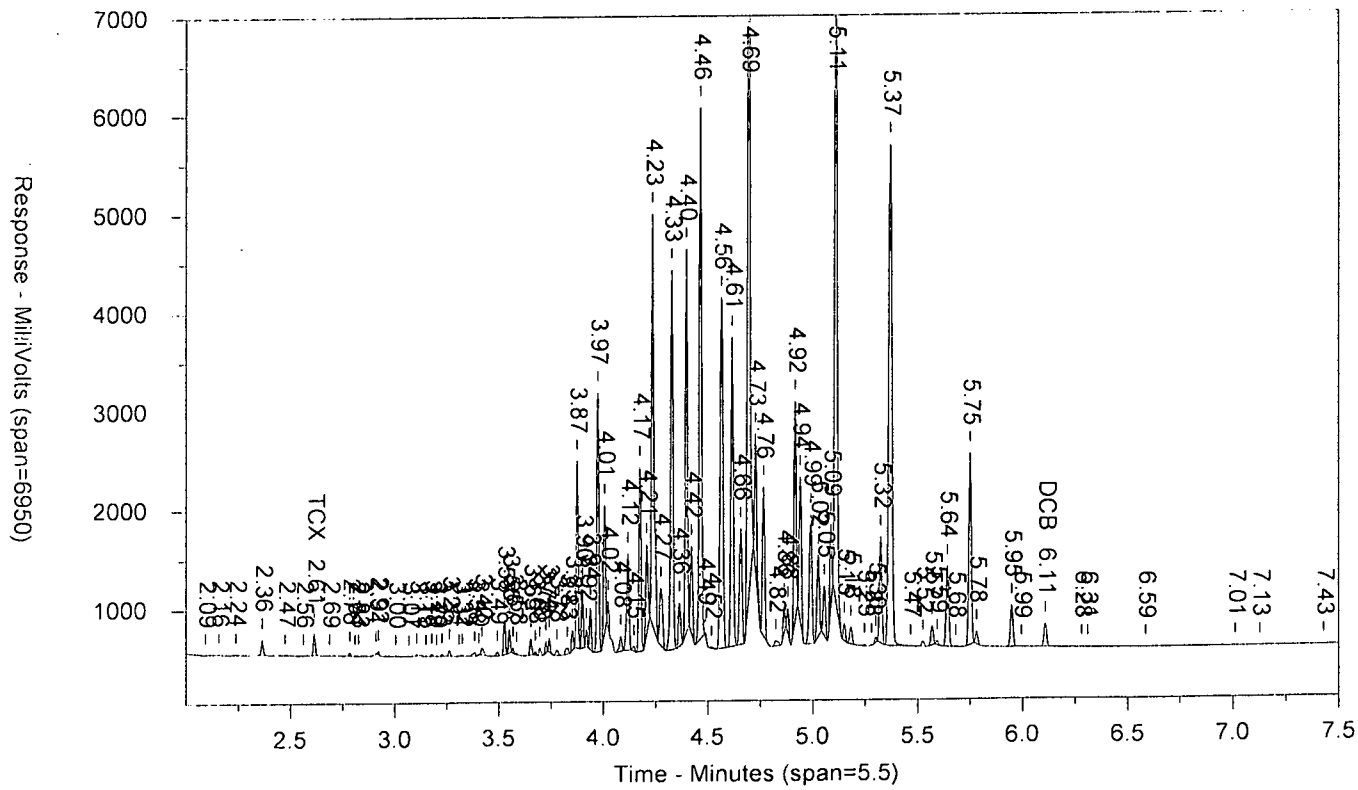

LANCASTER LABORATORIES

Sample Number: 9004855ACF DF100 ACA5514 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 10:49:44 PM Sample Weight: 10.12
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	40465	35.186	TCX	2.614	230604	32.962	TCX
6.612	33917	48.701	DCB	6.107	238186	48.311	DCB

Files:
Area File: 20pcbs17137009.044.RAW
Area File: 20pcbs17137009B.044.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 10:58:27 PM
File Reported On: 5/26/2017 at 10:58:37 PM

9004855ACF DF100 ACA5514 T 171440031A 10225 SW-846 8082

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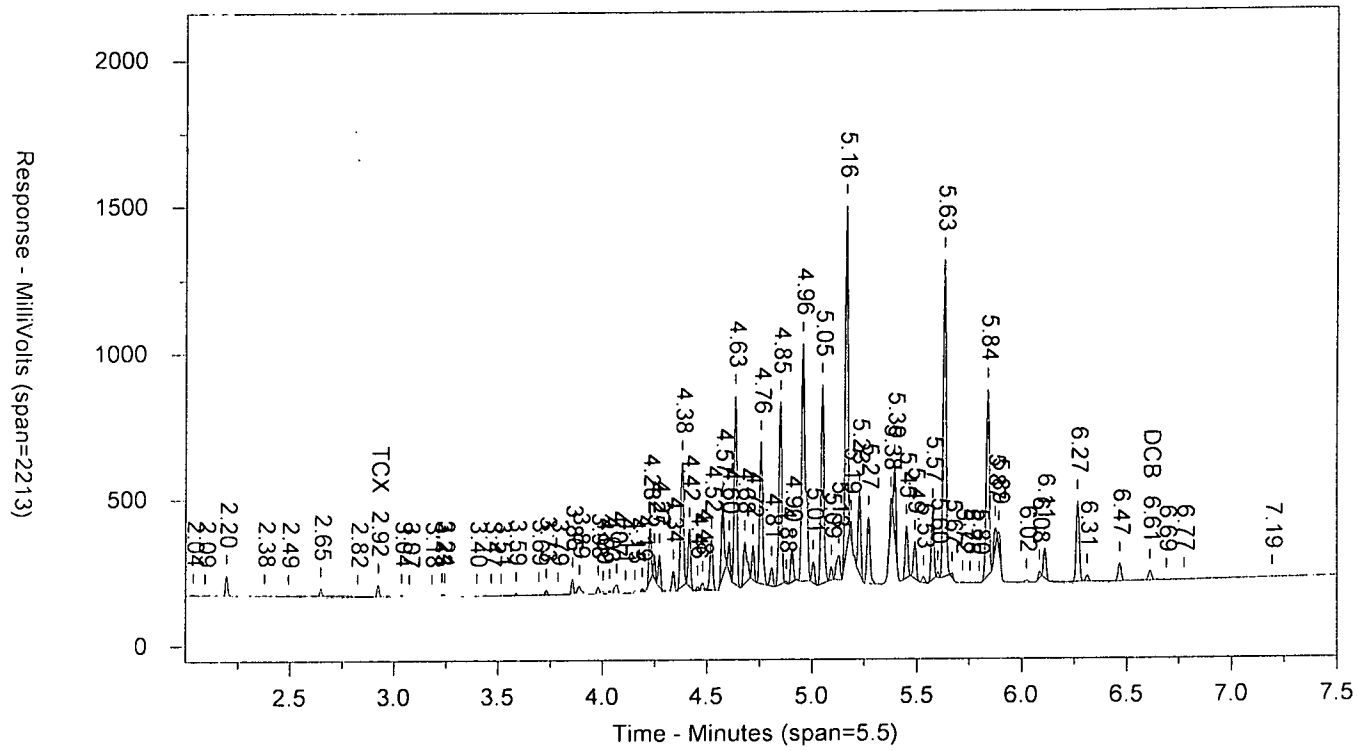

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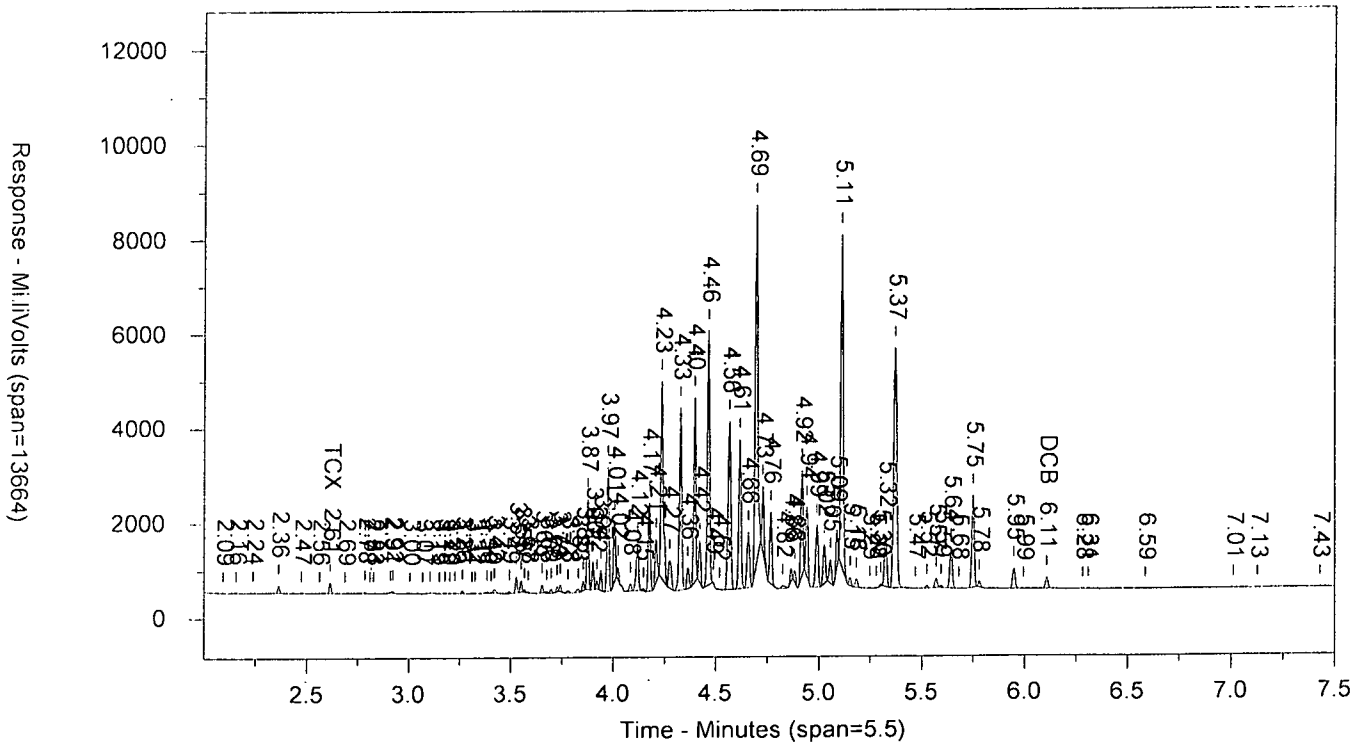

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Data Summary

Sample Name: 9004856 ACF DF50 A5515 Sample ID: AF **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 28, 2017 21:14:17
Instrument	17342A
Result file	20PCBS17137010.020.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 119% (61 - 152) Conc: 34.31496
%SSR(DCB) 162% (48 - 164) Conc: 46.63483

Analysis Report (B)

Injected on	May 28, 2017 21:14:17
Instrument	17342B
Result file	20PCBS17137010B.020.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 102% (61 - 152) Conc: 29.33141
%SSR(DCB) 149% (48 - 164) Conc: 43.01857

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	79239	34.31496
Decachlorobiphenyl	6.58	6.61	6.64	65212	46.63483

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	412030	29.33141
Decachlorobiphenyl	6.08	6.11	6.14	425861	43.01857

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	34.31496				15.66	
☑ Decachlorobiphenyl	A	46.63483				8.07	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**29.96**	
4.73	4.76	4.77	1032626	12125.806558			1
5.20	5.23	5.24	517700.5	9396.346358			3
5.37	5.39	5.41	465411.2	7403.399494			4
5.61	5.63	5.65	2332148	15303.825189			5
5.82	5.84	5.86	1329383	15528.917337			6

Height summation: **5677268.7**
Concentration CF: **11951.658987** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**18.17**	
4.31	4.33	4.35	7595818	13239.834443			1
4.44	4.46	4.48	10582990	15642.473516			2
4.55	4.56	4.59	6597936	12121.120721			3
4.90	4.91	4.94	3990964	9538.246257			4
5.09	5.11	5.13	14003440	14747.439225			5
5.35	5.37	5.39	10199100	16056.307949			6

Height summation: **52970248**
Concentration CF: **13557.570352** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<2509.8426	<487.2047			4	
☑ PCB-1221			<2509.8426	<752.9528			3	
☑ PCB-1232			<2509.8426	<605.315			4	
☑ PCB-1242			<2509.8426	<605.315			4	
☑ PCB-1248			<2509.8426	<487.2047			4	
☑ PCB-1254			<2509.8426	<649.6063			4	
☑ PCB-1260	B	13557.570352	2509.8426	575.7874		12.59	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Kirby B. Turner, Associate Chemist
Date: MAY 30 2017

Verified by: Valerie L. Tomayko, Principal Chemist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004856** ACF DF50 A5515 Sample ID: AF **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 28, 2017 21:14:17
Instrument : CP20--17342A
Result file : 20PCBS17137010.020.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET
%SSR(TCX) : 119% (61-152) Conc.: 34.31496
%SSR(DCB) : 162% (48-164) Conc.: 46.63483

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	137.02	
3.16	3.18	3.20	3779.087	90.638481			1
3.37	3.40	3.41	5995.366	140.820667			2
+ 3.37	3.41	3.41	2381.399	55.934899			2
3.49	3.51	3.53	6819.559	142.275862			3
3.71	3.73	3.75	31191.21	587.346572			4
3.76	3.78	3.80	12121.3	279.06067			5
3.96	3.98	4.00	70107.87	2012.974065			6
Height Summation:			**130014.392**				
Amount Avg CF:			**542.186053**	Linear:			
Aroclor-1221					2	38.88	
3.06	3.08	3.10	2379.058	119.114272			1
3.16	3.18	3.20	3779.087	67.748038			3
Height Summation:			**6158.145**				
Amount Avg CF:			**93.431155**	Linear:			
Aroclor-1232					6	145.46	
3.16	3.18	3.20	3779.087	75.526558			1
3.38	3.40	3.42	5995.366	297.772919			2
+ 3.38	3.41	3.42	2381.399	118.277371			2
3.49	3.51	3.53	6819.559	308.689452			3
3.71	3.73	3.75	31191.21	1301.51318			4
3.77	3.78	3.81	12121.3	645.144496			5
3.96	3.98	4.00	70107.87	4827.090283			6
Height Summation:			**130014.392**				
Amount Avg CF:			**1242.622815**	Linear:			
Aroclor-1242					6	138.09	
3.16	3.18	3.20	3779.087	105.801963			1
3.38	3.40	3.42	5995.366	169.979312			2
+ 3.38	3.41	3.42	2381.399	67.516906			2
3.49	3.51	3.53	6819.559	176.573175			3
3.71	3.73	3.75	31191.21	717.907216			4
3.77	3.78	3.81	12121.3	356.329586			5
3.96	3.98	4.00	70107.87	2521.073884			6
Height Summation:			**130014.392**				
Amount Avg CF:			**674.610856**	Linear:			
Aroclor-1248					6	183.38	
3.76	3.78	3.80	12121.3	513.987196			1
3.83	3.85	3.87	146624.4	3418.797631			2
3.96	3.98	4.00	70107.87	1388.045822			3
4.05	4.07	4.09	67861.82	1616.248764			4
4.23	4.25	4.27	225994.5	4543.641578			5
4.61	4.63	4.65	1556542	42690.450106			6
Height Summation:			**2079251.89**				
Amount Avg CF:			**9028.528516**	Linear:			
Aroclor-1254					6	53.36	
4.21	4.23	4.25	473249.7	8069.929646			1
4.55	4.57	4.59	612354.2	10390.300224			2
4.61	4.63	4.65	1556542	13076.792414			3
4.73	4.76	4.77	1032626	28902.480494			4
4.83	4.85	4.87	1441600	18326.876011			5
5.14	5.16	5.18	2543785	31481.598482			6
Height Summation:			**7660156.9**				
Amount Avg CF:			**18374.662879**	Linear:			

Analysis Report (B)

Injected on : May 28, 2017 21:14:17
Instrument : CP20--17342B
Result file : 20PCBS17137010B.020.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET
%SSR(TCX) : 102% (61-152) Conc.: 29.33141
%SSR(DCB) : 149% (48-164) Conc.: 43.01857

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	103.03	
2.88	2.91	2.92	17353.7	75.526103			1
3.21	3.23	3.25	37508.77	131.361554			2
+ 3.40	3.40	3.44	24285.85	84.643961			3
3.40	3.42	3.44	125906.1	438.82306			3
3.47	3.49	3.51	86940.58	256.229504			4
3.63	3.65	3.67	454859	1595.543236			5
+ 3.72	3.72	3.76	164293.1	672.54626			6
3.72	3.74	3.76	329919.9	1350.552122			6
Height Summation:			**1052488.05**				
Amount Avg CF:			**641.339263**	Linear:			
Aroclor-1221					3	129.99	
2.77	2.78	2.81	74803.26	616.880482			1
2.83	2.83	2.87	5022.248	67.18701			2
2.88	2.91	2.92	17353.7	55.963503			3
Height Summation:			**97179.208**				
Amount Avg CF:			**246.676998**	Linear:			
Aroclor-1232					6	109.96	
2.88	2.91	2.92	17353.7	61.819946			1
3.21	3.23	3.25	37508.77	276.470142			2
+ 3.40	3.40	3.44	24285.85	200.083504			3
3.40	3.42	3.44	125906.1	1037.300881			3
3.47	3.49	3.51	86940.58	583.013458			4
+ 3.66	3.67	3.70	98679.7	2423.081053			5
3.66	3.70	3.70	169840.5	4170.435232			5
3.73	3.74	3.77	329919.9	3089.980655			6
Height Summation:			**767469.55**				
Amount Avg CF:			**1536.503386**	Linear:			
Aroclor-1242					6	104.74	
2.88	2.91	2.92	17353.7	87.838171			1
3.21	3.23	3.25	37508.77	158.972057			2
+ 3.40	3.40	3.44	24285.85	104.669321			3
3.40	3.42	3.44	125906.1	542.641333			3
3.47	3.49	3.51	86940.58	327.850742			4
3.64	3.65	3.68	454859	2083.279197			5
+ 3.64	3.67	3.68	98679.7	451.958445			5
3.73	3.74	3.77	329919.9	1686.957532			6
Height Summation:			**1052488.05**				
Amount Avg CF:			**814.589839**	Linear:			
Aroclor-1248					6	163.40	
+ 3.40	3.40	3.44	24285.85	214.614237			1
3.40	3.42	3.44	125906.1	1112.63314			1
3.51	3.53	3.55	912309.8	2858.479655			2
3.63	3.65	3.67	454859	1140.721769			3
+ 3.72	3.72	3.76	164293.1	570.618807			4
3.72	3.74	3.76	329919.9	1145.869788			4
3.86	3.87	3.90	4569907	8379.79586			5
4.22	4.23	4.26	8680699	36001.626831			6
Height Summation:			**15073600.8**				
Amount Avg CF:			**8439.854507**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004856** ACF DF50 A5515 Sample ID: AF **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 28, 2017 21:14:17
Instrument : CP20--17342A
Result file : 20PCBS17137010.020.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	61.05	
4.73	4.76	4.77	1032626	12125.806558			1
5.03	5.05	5.07	1597413	33948.594666			2
5.20	5.23	5.24	517700.5	9396.346358			3
+ 5.37	5.37	5.41	262866.7	4181.479074			4
5.37	5.39	5.41	465411.2	7403.399494			4
5.61	5.63	5.65	2332148	15303.825189			5
5.82	5.84	5.86	1329383	15528.917337			6
Height Summation:			7274681.7				
Amount Avg CF:			15617.814934	Linear:			
Aroclor-1262					6	48.98	
5.21	5.23	5.24	517700.5	5103.447687			1
+ 5.37	5.37	5.41	262866.7	3207.642855			2
5.37	5.39	5.41	465411.2	5679.201322			2
E 5.61	5.63	5.65	2332148	11774.265782			3
E 5.81	5.84	5.85	1329383	12144.512438			4
5.87	5.87	5.91	156000.7	2876.831343			5
+ 5.87	5.89	5.91	94832.38	1748.817558			5
6.25	6.27	6.29	578639.4	8771.079262			6
Height Summation:			5379282.8				
Amount Avg CF:			7724.889639	Linear:			
Aroclor-1268					6	128.49	
5.81	5.84	5.85	1329383	5461.459761			1
5.87	5.89	5.91	94832.38	446.521774			2
6.00	6.02	6.04	16013.87	80.863226			3
6.07	6.08	6.11	48578.22	1069.958733			4
6.25	6.27	6.29	578639.4	7073.93359			5
6.45	6.46	6.49	123026.4	192.18803			6
Height Summation:			2190473.27				
Amount Avg CF:			2387.487519	Linear:			

Analysis Report (B)

Injected on : May 28, 2017 21:14:17
Instrument : CP20--17342B
Result file : 20PCBS17137010B.020.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	49.78	
4.16	4.17	4.19	4266573	10043.625896			1
4.22	4.23	4.26	8680699	11516.654777			2
4.31	4.33	4.35	7595818	21662.999524			3
4.38	4.40	4.42	8304441	16389.338073			4
4.44	4.46	4.48	10582990	36269.041172			5
4.60	4.61	4.64	6511716	18318.084118			6
Height Summation:			45942237				
Amount Avg CF:			19033.290593	Linear:			
Aroclor-1260					6	18.17	
4.31	4.33	4.35	7595818	13239.834443			1
4.44	4.46	4.48	10582990	15642.473516			2
4.55	4.56	4.59	6597936	12121.120721			3
4.90	4.91	4.94	3990964	9538.246257			4
5.09	5.11	5.13	14003440	14747.439225			5
5.35	5.37	5.39	10199100	16056.307949			6
Height Summation:			52970248				
Amount Avg CF:			13557.570352	Linear:			
Aroclor-1262					6	50.29	
4.71	4.73	4.75	2236129	3395.166061			1
4.90	4.91	4.94	3990964	6091.568815			2
E 5.09	5.11	5.13	14003440	11237.104769			3
5.31	5.32	5.35	1883378	3647.26584			4
E 5.35	5.37	5.39	10199100	12270.809764			5
5.73	5.75	5.77	3762003	8363.340067			6
Height Summation:			36075014				
Amount Avg CF:			7500.875886	Linear:			
Aroclor-1268					6	129.91	
5.31	5.32	5.35	1883378	1119.889138			1
5.35	5.37	5.39	10199100	5989.936699			2
5.51	5.52	5.55	100016.1	68.372229			3
5.57	5.59	5.61	80437.39	227.433289			4
5.73	5.75	5.77	3762003	6563.838936			5
5.93	5.95	5.97	788189.6	180.94644			6
Height Summation:			16813124.09				
Amount Avg CF:			2358.402789	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2509.8426	487.2047		16.76	4	40	
Aroclor-1221			2509.8426	752.9528		** 90.12	3	5	
Aroclor-1232			2509.8426	605.315		21.15	4	10	
Aroclor-1242			2509.8426	605.315		18.80	4	30	
Aroclor-1248			2509.8426	487.2047		6.74	4	40	
Aroclor-1254			2509.8426	649.6063		3.52	4	40	
Aroclor-1260			2509.8426	575.7874		14.12	4	40	
Aroclor-1262			2509.8426	487.2047	E	2.94	4	40	
Aroclor-1268			2509.8426	487.2047		1.23	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004856ACF DF50 AFA5515 T 171440031A 10225 SW-846 8082
Injected On: 5/28/2017 9:14:17 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137010.020.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		7474	8488
2.1		2007	3170
2.13		2086	2466
2.197		129483	98147
2.31		4163	3429
2.381		4016	4562
2.57		4234	3747
2.647		56953	37098
2.761		979	1454
2.887		856	1066
2.924	TCX	79239	53678
2.994		782	434
3.036		11513	7413
3.078		2379	2280
3.182		3779	3705
3.23		7449	4073
3.397		5995	3482
3.413		2381	2108
3.467		5342	4061
3.513		6820	4941
3.562		1198	1105
3.585		14136	9718
3.621		1565	771
3.692		18080	21415
3.729		31191	25263
3.784		12121	9505
3.829		1059	618
3.854		146624	111226
3.883		47672	43035
3.902		11314	5071
3.978		70108	51498
4.001		11777	7189
4.032		24359	16989
4.067		67862	73934
4.108		11192	8796
4.153		7035	7131
4.189		17530	12771
4.226		473250	331412
4.247		225995	138078
4.27		277936	204437
4.337		153614	138579
4.38		1065299	1001455
4.414		461490	374870
4.455		23627	16687
4.477		53327	40053
4.519		377439	357004
4.572		612354	556721
4.603		251756	173620
4.634		1556542	1334384
4.678		290130	338604
4.717		261432	213592
4.756		1032626	1008485
4.805		146931	129668
4.848		1441600	1354442

RT A	Compound A	Height A	Area A
4.876		18861	10235
4.903		216025	190857
4.928		11351	4681
4.955		1772077	2174102
5.005		131431	117150
5.048		1597413	1502962
5.091		109888	83374
5.127		173543	223244
5.164		2543785	2339001
5.186		130742	59724
5.226		517701	454376
5.269		466967	469075
5.375		262867	195940
5.391		465411	342991
5.448		347068	313503
5.489		247140	227913
5.529		40537	37988
5.574		525588	476230
5.599		45079	25572
5.631		2332148	2195828
5.665		22513	15563
5.717		6896	7009
5.753		1913	1177
5.773		2163	1282
5.797		1926	1168
5.838		1329383	1369676
5.872		156001	149383
5.89		94832	56312
6.021		16014	20088
6.084		48578	36170
6.108		216677	189933
6.265		578639	567116
6.31		41160	39949
6.464		123026	128299
6.541		1010	1175
6.611	DCB	65212	71517
6.687		2530	3289
7.576		851	630
7.776		1570	4216
8.233		691	876
8.68		4100	6120

LANCASTER LABORATORIES

Sample Number: 9004856ACF DF50 AFA5515 T 171440031A 10225 SW-846 8082
Injected On: 5/28/2017 9:14:17 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137010B.020.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.038		4514	4139
2.067		7143	5028
2.097		10275	20486
2.156		40918	29814
2.188		5538	3941
2.214		4028	2510
2.241		11726	14447
2.282		6953	9051
2.332		3447	1322
2.363		294876	186729
2.437		8186	9318
2.462		2858	1146
2.476		7047	5694
2.508		5031	3801
2.537		7801	6572
2.614	TCX	412030	258430
2.675		4508	3875
2.706		5806	9877
2.784		74803	41860
2.809		4310	3183
2.832		5022	3956
2.867		2877	2198
2.91		17354	6651
2.921		57599	26576
2.968		3423	2009
3.005		7353	10603
3.067		2962	1947
3.105		21861	10079
3.152		3506	2694
3.177		29711	18315
3.226		37509	25348
3.262		94032	56844
3.308		12071	6030
3.324		11696	6481
3.383		100485	86479
3.403		24286	10428
3.418		125906	106673
3.492		86941	58891
3.525		912310	553979
3.549		474145	273467
3.566		138467	65972
3.583		18876	9778
3.652		454859	287257
3.674		98680	51029
3.695		169841	106214
3.725		164293	85674
3.741		329920	178452
3.779		95794	86653
3.823		119208	119691
3.851		443686	257465
3.874		4569907	2951155
3.898		1327079	788814
3.919		379425	193394
3.937		846596	517881

RT B	Compound B	Height B	Area B
3.972		5691277	3801865
4.004		2898275	1877886
4.022		564785	262507
4.082		325938	237631
4.117		2108375	1573621
4.143		50399	38423
4.174		4266573	3100300
4.207		1918622	1422550
4.234		8680699	7055854
4.274		1058748	1099847
4.326		7595818	6029790
4.363		920704	696874
4.395		8304441	5718306
4.42		1655917	1123640
4.463		10582990	8579640
4.515		14932	10941
4.565		6597936	6519692
4.614		6511716	5317283
4.656		2203833	1917681
4.694		15616500	13010710
4.726		2236129	1475099
4.764		2877543	2100138
4.823		110822	137969
4.864		455443	282633
4.88		483284	293026
4.915		3990964	2970290
4.938		3211630	2252165
4.989		2325369	2058003
5.024		1556177	1240012
5.054		893640	723544
5.086		1676301	1063652
5.109		14003440	11035150
5.15		297032	213771
5.182		312128	252847
5.224		6949	4573
5.246		31571	22354
5.28		19224	12886
5.301		96499	59781
5.324		1883378	1569150
5.369		10199100	10633540
5.466		9006	10217
5.524		100016	83652
5.569		395657	308763
5.593		80437	52409
5.642		1610040	1341933
5.684		5779	6720
5.748		3762003	3141295
5.78		244770	185813
5.947		788190	698773
5.994		6300	4157
6.03		3127	2067
6.064		4052	2687
6.107	DCB	425861	374925
6.239		5295	4641
6.281		10861	7952
6.311		9476	8074
6.532		3668	6697
6.631		3168	2757
6.953		2113	2910
7.01		7054	7592
7.352		2279	4832
7.554		8445	14823
7.708		2463	2991
7.783		2438	2485
8.115		1365	1347
8.212		19940	37479

9004856ACF DF50 AFA5515 T 171440031A 10225 SW-846 8082

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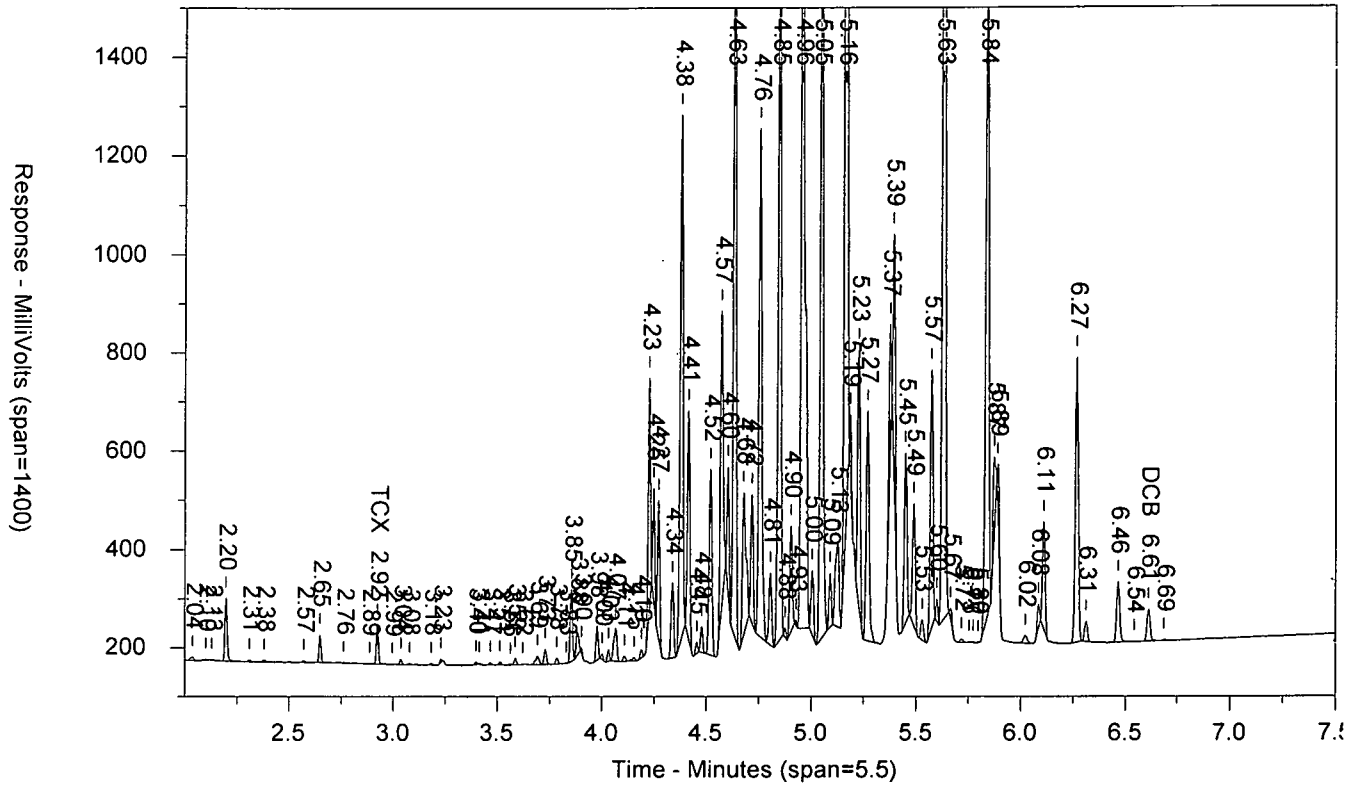

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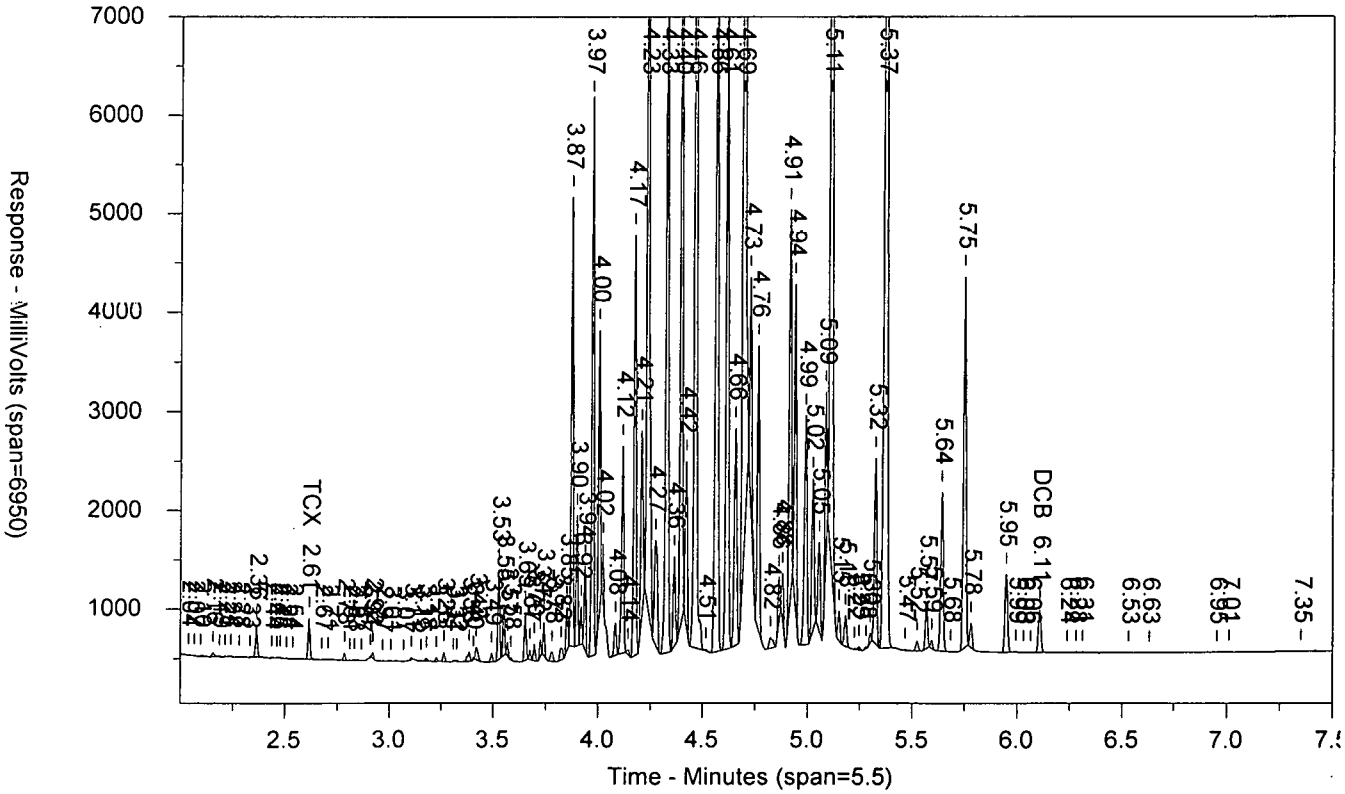

LANCASTER LABORATORIES

Sample Number: 9004856ACF DF50 AFA5515 T 171440031A 10225 SW-846 8082
Injected On: 5/28/2017 9:14:17 PM Sample Weight: 10.16
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	79239	34.315	TCX	2.614	412030	29.331	TCX
6.611	65212	46.635	DCB	6.107	425861	43.019	DCB

Files:
Area File: 20pcbs17137010.020.RAW
Area File: 20pcbs17137010B.020.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/28/2017 9:23:01 PM
File Reported On: 5/30/2017 at 9:19:10 AM

9004856ACF DF50 AFA5515 T 171440031A 10225 SW-846 8082

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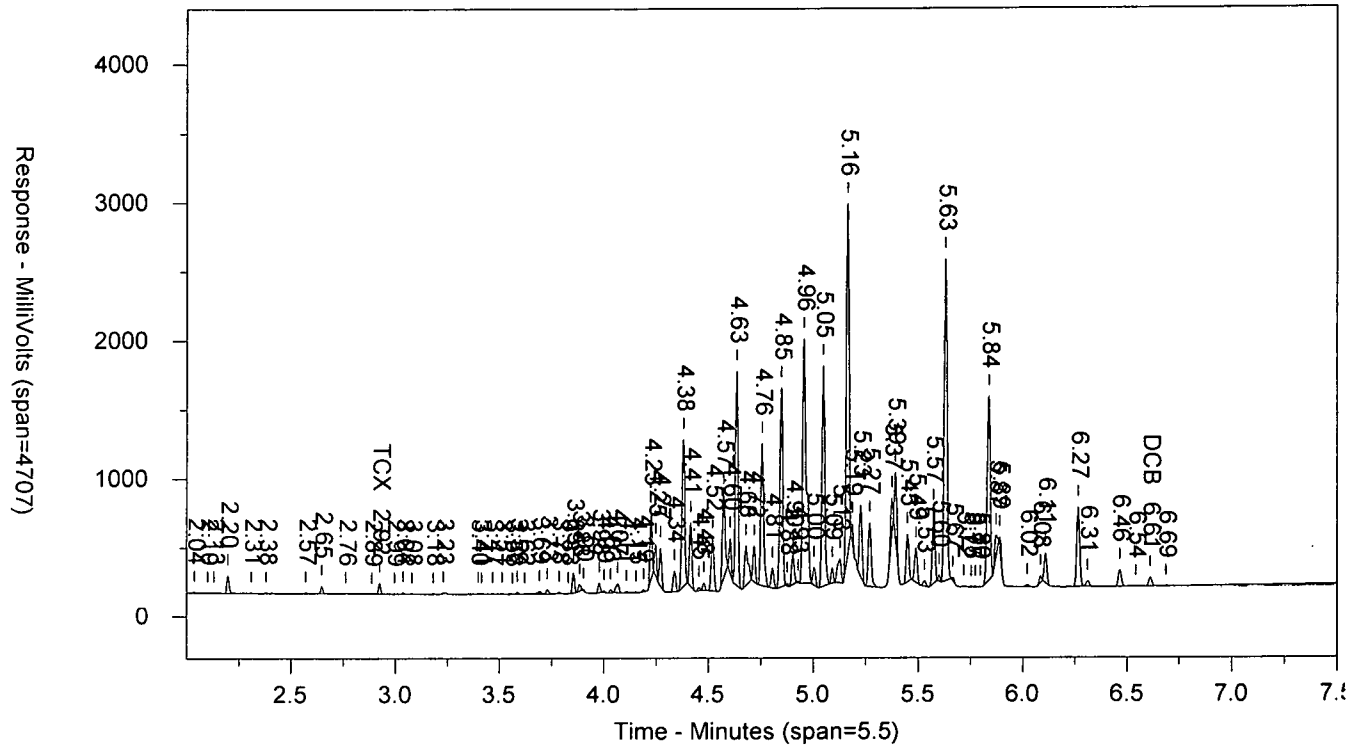

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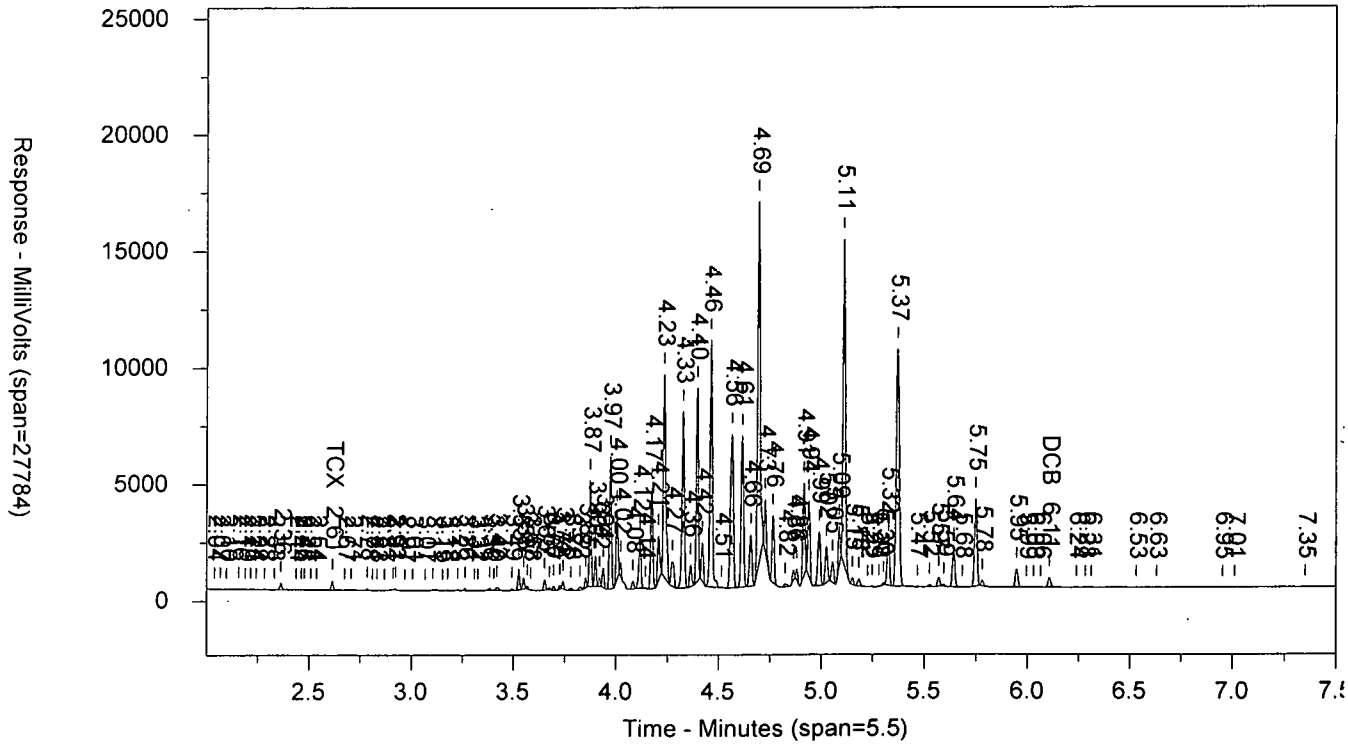

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Data Summary

Sample Name: 9004857 ACF DF100 A5516 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.36 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 23:24:00
Instrument	17342A
Result file	20PCBS17137009.047.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 98% (61 - 152) Conc: 27.67703
%SSR(DCB) 132% (48 - 164) Conc: 37.2353

Analysis Report (B)

Injected on	May 26, 2017 23:24:00
Instrument	17342B
Result file	20PCBS17137009B.047.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 96% (61 - 152) Conc: 27.08127
%SSR(DCB) 141% (48 - 164) Conc: 39.69263

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	32585	27.67703	Tetrachloro-m-xylene	2.59	2.61	2.65	193955	27.08127
Decachlorobiphenyl	6.58	6.61	6.64	26546	37.2353	Decachlorobiphenyl	6.08	6.11	6.14	200335	39.69263

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	27.67703				2.18	
☑	Decachlorobiphenyl	B	39.69263				6.39	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**48.68**	
4.73	4.76	4.77	181547.9	4181.410042			1
5.03	5.05	5.07	287693.3	11992.183976			2
5.20	5.23	5.24	129389.2	4606.195942			3
5.37	5.39	5.41	115003.8	3588.149203			4
5.61	5.63	5.65	508889.4	6549.848301			5
5.82	5.84	5.86	323626.5	7414.793866			6

Height summation: **1546150.1**
Concentration CF: **6388.763555** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**18.99**	
4.31	4.33	4.35	1476648	5048.343924			1
4.44	4.46	4.48	2273280	6590.432585			2
4.55	4.57	4.59	1435110	5171.110485			3
4.90	4.92	4.94	1105464	5182.022243			4
5.09	5.11	5.13	3344761	6908.932013			5
5.35	5.37	5.39	2542524	7850.78074			6

Height summation: **12177787**
Concentration CF: **6125.270332** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<4922.7799	<955.5984			4	
☑	PCB-1221			<4922.7799	<1476.834			3	
☑	PCB-1232			<4922.7799	<1187.2587			4	
☑	PCB-1242			<4922.7799	<1187.2587			4	
☑	PCB-1248			<4922.7799	<955.5984			4	
☑	PCB-1254			<4922.7799	<1274.1313			4	
☑	PCB-1260	A	6388.763555	4922.7799	1129.3436		4.21	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: MAY 30 2017
Date:

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004857** ACF DF100 A5516 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.36 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 23:24:00
Instrument : CP20--17342A
Result file : 20PCBS17137009.047.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 98% (61-152) Conc.: 27.67703
%SSR(DCB) : 132% (48-164) Conc.: 37.2353

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**90.15**	
3.37	3.40	3.41	1530.69	70.518309			2
3.49	3.51	3.53	1048.134	42.889965			3
3.71	3.73	3.75	7283.967	269.025925			4
3.76	3.78	3.80	1593.805	71.969513			5
3.96	3.98	4.00	6832.468	384.780417			6
Height Summation:			**18289.064**				
Amount Avg CF:			**167.836826**	Linear:			
Aroclor-1221					**1**		
3.06	3.08	3.10	660.4052	64.853468			1
Height Summation:			**660.4052**				
Amount Avg CF:			**64.853468**	Linear:			
Aroclor-1232					**5**	**93.75**	
3.38	3.40	3.42	1530.69	149.114779			2
3.49	3.51	3.53	1048.134	93.056402			3
3.71	3.73	3.75	7283.967	596.140003			4
3.77	3.78	3.81	1593.805	166.382226			5
3.96	3.98	4.00	6832.468	922.699326			6
Height Summation:			**18289.064**				
Amount Avg CF:			**385.478547**	Linear:			
Aroclor-1242					**5**	**90.55**	
3.38	3.40	3.42	1530.69	85.119989			2
3.49	3.51	3.53	1048.134	53.229108			3
3.71	3.73	3.75	7283.967	328.827411			4
3.77	3.78	3.81	1593.805	91.897102			5
3.96	3.98	4.00	6832.468	481.903805			6
Height Summation:			**18289.064**				
Amount Avg CF:			**208.195483**	Linear:			
Aroclor-1248					**6**	**182.97**	
3.76	3.78	3.80	1593.805	132.556868			1
3.83	3.85	3.87	12973.46	593.317163			2
3.96	3.98	4.00	6832.468	265.325252			3
4.05	4.06	4.09	8267.436	386.204645			4
4.23	4.23	4.27	45968.43	1812.716194			5
+ 4.23	4.25	4.27	30950.23	1220.489434			5
4.61	4.63	4.65	214523.1	11540.055633			6
Height Summation:			**290158.699**				
Amount Avg CF:			**2455.029292**	Linear:			
Aroclor-1254					**6**	**68.19**	
4.21	4.23	4.25	45968.43	1537.45715			1
4.55	4.57	4.59	82997	2762.178487			2
4.61	4.63	4.65	214523.1	3534.910304			3
4.73	4.76	4.77	181547.9	9966.604826			4
4.83	4.85	4.87	236311	5892.390956			5
5.14	5.16	5.18	458570.1	11131.304313			6
Height Summation:			**1219917.53**				
Amount Avg CF:			**5804.141006**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 23:24:00
Instrument : CP20--17342B
Result file : 20PCBS17137009B.047.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 96% (61-152) Conc.: 27.08127
%SSR(DCB) : 141% (48-164) Conc.: 39.69263

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**72.37**	
3.21	3.23	3.25	6591.465	45.277387			2
3.40	3.42	3.44	35176.79	240.471064			3
3.47	3.49	3.51	16386.7	94.724442			4
3.63	3.65	3.67	63227.46	435.012232			5
3.72	3.72	3.76	51088.16	410.191869			6
+ 3.72	3.74	3.76	38022.01	305.282464			6
Height Summation:			**172470.575**				
Amount Avg CF:			**245.135399**	Linear:			
Aroclor-1221					**1**		
2.77	2.78	2.81	28779.57	465.50972			1
Height Summation:			**28779.57**				
Amount Avg CF:			**465.50972**	Linear:			
Aroclor-1232					**5**	**91.50**	
3.21	3.23	3.25	6591.465	95.293068			2
3.40	3.42	3.44	35176.79	568.431491			3
3.47	3.49	3.51	16386.7	215.53187			4
+ 3.66	3.67	3.70	19366.35	932.721195			5
3.66	3.70	3.70	32143.71	1548.103779			5
3.73	3.74	3.77	38022.01	698.467605			6
Height Summation:			**128320.675**				
Amount Avg CF:			**625.165563**	Linear:			
Aroclor-1242					**5**	**72.31**	
3.21	3.23	3.25	6591.465	54.794109			2
3.40	3.42	3.44	35176.79	297.362537			3
3.47	3.49	3.51	16386.7	121.201805			4
3.64	3.65	3.68	63227.46	567.98958			5
+ 3.64	3.67	3.68	19366.35	173.973223			5
3.73	3.74	3.77	38022.01	381.324455			6
Height Summation:			**159404.425**				
Amount Avg CF:			**284.534497**	Linear:			
Aroclor-1248					**6**	**170.71**	
3.40	3.42	3.44	35176.79	609.712886			1
3.51	3.53	3.55	101254.1	622.256342			2
3.63	3.65	3.67	63227.46	311.008759			3
3.72	3.72	3.76	51088.16	348.02542			4
+ 3.72	3.74	3.76	38022.01	259.015514			4
3.86	3.87	3.90	594240.6	2137.235334			5
4.22	4.23	4.26	1413529	11498.365238			6
Height Summation:			**2258516.11**				
Amount Avg CF:			**2587.76733**	Linear:			
Aroclor-1254					**6**	**63.38**	
4.16	4.17	4.19	605532.4	2795.842362			1
4.22	4.23	4.26	1413529	3678.242196			2
4.31	4.33	4.35	1476648	8260.09362			3
4.38	4.40	4.42	1472775	5701.004208			4
4.44	4.46	4.48	2273280	15280.746394			5
4.60	4.61	4.64	1222408	6744.732494			6
Height Summation:			**8464172.4**				
Amount Avg CF:			**7076.776879**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004857** ACF DF100 A5516 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.36 g Total Volume: 1000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 23:24:00
Instrument : CP20--17342A
Result file : 20PCBS17137009.047.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	48.68	
4.73	4.76	4.77	181547.9	4181.410042			1
5.03	5.05	5.07	287693.3	11992.183976			2
5.20	5.23	5.24	129389.2	4606.195942			3
+ 5.37	5.38	5.41	29632.36	924.537527			4
5.37	5.39	5.41	115003.8	3588.149203			4
5.61	5.63	5.65	508889.4	6549.848301			5
5.82	5.84	5.86	323626.5	7414.793866			6
Height Summation:			**1546150.1**				
Amount Avg CF:			**6388.763555**	Linear:			
Aroclor-1262					6	49.08	
5.21	5.23	5.24	129389.2	2501.768148			1
+ 5.37	5.38	5.41	29632.36	709.219427			2
5.37	5.39	5.41	115003.8	2752.495217			2
5.61	5.63	5.65	508889.4	5039.240437			3
5.81	5.84	5.85	323626.5	5798.798098			4
5.87	5.87	5.91	30926.67	1118.626139			5
+ 5.87	5.89	5.91	24688.07	892.974265			5
6.25	6.27	6.29	142296	4230.597166			6
Height Summation:			**1250131.57**				
Amount Avg CF:			**3573.587534**	Linear:			
Aroclor-1268					6	126.07	
5.81	5.84	5.85	323626.5	2607.754131			1
5.87	5.87	5.91	30926.67	285.616373			2
+ 5.87	5.89	5.91	24688.07	228.001172			2
6.00	6.02	6.04	4681.832	46.369727			3
6.07	6.09	6.11	11955.99	516.505466			4
6.25	6.27	6.29	142296	3412.004669			5
6.45	6.47	6.49	32124.41	98.429919			6
Height Summation:			**545611.402**				
Amount Avg CF:			**1161.113381**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 23:24:00
Instrument : CP20--17342B
Result file : 20PCBS17137009B.047.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	18.99	
4.31	4.33	4.35	1476648	5048.343924			1
4.44	4.46	4.48	2273280	6590.432585			2
4.55	4.57	4.59	1435110	5171.110485			3
4.90	4.92	4.94	1105464	5182.022243			4
5.09	5.11	5.13	3344761	6908.932013			5
5.35	5.37	5.39	2542524	7850.78074			6
Height Summation:			**12177787**				
Amount Avg CF:			**6125.270332**	Linear:			
Aroclor-1262					6	41.52	
4.71	4.73	4.75	680737.2	2027.251354			1
4.90	4.92	4.94	1105464	3309.481035			2
5.09	5.11	5.13	3344761	5264.398225			3
5.31	5.33	5.35	601919.9	2286.296629			4
5.35	5.37	5.39	2542524	5999.849857			5
5.73	5.75	5.77	999970.1	4360.251913			6
Height Summation:			**9275376.2**				
Amount Avg CF:			**3874.588169**	Linear:			
Aroclor-1268					6	126.64	
5.31	5.33	5.35	601919.9	702.004974			1
5.35	5.37	5.39	2542524	2928.797817			2
5.51	5.52	5.55	33950.86	45.522337			3
5.57	5.59	5.61	19547.08	108.40315			4
5.73	5.75	5.77	999970.1	3422.076712			5
5.93	5.95	5.97	227824.6	102.585011			6
Height Summation:			**4425736.54**				
Amount Avg CF:			**1218.231667**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			4922.7799	955.5984		37.44	4	40	
Aroclor-1221			4922.7799	1476.834		** 151.09	3	5	
Aroclor-1232			4922.7799	1187.2587		** 47.43	4	10	
Aroclor-1242			4922.7799	1187.2587		30.99	4	30	
Aroclor-1248			4922.7799	955.5984		5.26	4	40	
Aroclor-1254			4922.7799	1274.1313		19.76	4	40	
Aroclor-1260			4922.7799	1129.3436		4.21	4	40	
Aroclor-1262			4922.7799	955.5984		8.08	4	40	
Aroclor-1268			4922.7799	955.5984		4.80	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004857ACF DF100 ACA5516 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:24:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.047.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.035		1507	1870
2.102		1480	2004
2.128		1304	1787
2.197		17390	12869
2.283		1922	1293
2.379		1821	1995
2.648		6061	4498
2.924	TCX	32585	22934
3.037		4749	3177
3.076		660	613
3.229		26980	19857
3.397		1531	2151
3.468		1235	968
3.512		1048	999
3.585		3642	2699
3.691		1414	1515
3.729		7284	5807
3.784		1594	1166
3.854		12973	9321
3.888		9281	10729
3.979		6832	4651
4.003		1701	1180
4.032		3296	2187
4.059		8267	10321
4.107		1123	988
4.156		1382	989
4.191		3693	2657
4.226		45968	33441
4.248		30950	19796
4.27		37282	26210
4.295		2705	1991
4.338		20401	17570
4.381		131552	130173
4.415		60467	48466
4.454		3283	2261
4.477		6856	5236
4.52		60419	55904
4.572		82997	72567
4.604		33566	23060
4.634		214523	190833
4.679		53856	64300
4.718		43767	34462
4.756		181548	178489
4.806		25805	23242
4.848		236311	223636
4.876		3321	1824
4.903		49144	48137
4.955		326762	412703
5.005		30397	27252
5.048		287693	269511
5.091		19674	14065
5.128		36585	48451
5.164		458570	433357
5.187		23097	10927

RT A	Compound A	Height A	Area A
5.227		129389	117396
5.27		106569	105199
5.376		29632	24277
5.391		115004	87815
5.45		90324	83148
5.49		60848	54130
5.53		9273	9481
5.575		107760	103438
5.602		8366	4776
5.631		508889	505873
5.667		6878	4091
5.721		1919	1946
5.755		1792	1981
5.838		323627	328739
5.874		30927	32433
5.89		24688	18007
6.023		4682	6773
6.085		11956	9140
6.11		57661	49959
6.235		979	775
6.267		142296	148436
6.312		11183	10860
6.467		32124	34268
6.612	DCB	26546	27379
6.69		1013	800
7.084		893	1990
7.777		1395	1904

LANCASTER LABORATORIES

Sample Number: 9004857ACF DF100 ACA5516 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:24:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.047.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.108		16739	16981
2.155		7475	16856
2.238		13876	27704
2.363		44355	31886
2.474		4199	4212
2.567		2858	2235
2.594		2667	2265
2.614	TCX	193955	115771
2.676		2126	851
2.71		4708	8148
2.784		28780	16880
2.921		176282	118658
3.105		8458	18868
3.177		10415	9090
3.226		6591	3970
3.262		29463	18956
3.31		2164	1403
3.323		5063	2638
3.351		1914	1157
3.383		14117	13142
3.419		35177	35910
3.493		16387	12379
3.526		101254	60501
3.55		99788	56262
3.567		17895	7983
3.583		7910	5033
3.652		63227	40726
3.675		19366	10940
3.697		32144	21388
3.725		51088	27267
3.741		38022	20329
3.777		20344	19137
3.829		30684	27421
3.852		79838	46626
3.874		594241	380449
3.899		236041	139008
3.919		48187	23106
3.937		154753	92488
3.973		844792	595751
4.005		469299	312531
4.022		65632	27496
4.083		58317	54405
4.118		364954	292992
4.146		27517	20159
4.174		605532	438027
4.207		303563	228418
4.235		1413529	1233965
4.274		229619	226152
4.326		1476648	1189598
4.364		196625	152047
4.396		1472775	1060293
4.421		395802	270052
4.463		2273280	1866500
4.516		6093	5192

RT B	Compound B	Height B	Area B
4.565		1435110	1391880
4.615		1222408	1034213
4.656		542819	479930
4.694		3165392	2660413
4.726		680737	468980
4.765		677264	536030
4.824		7276	4962
4.864		131372	85510
4.881		111466	67205
4.915		1105465	827975
4.939		593717	432508
4.99		664019	586258
5.025		389791	315942
5.055		260632	217765
5.087		326350	211751
5.109		3344761	2795796
5.15		77768	52051
5.183		90623	71620
5.246		6584	4903
5.281		5071	2954
5.301		31194	18236
5.326		601920	502476
5.369		2542525	2744381
5.524		33951	28260
5.57		96621	76696
5.593		19547	12347
5.615		5471	3095
5.642		413710	370963
5.684		5541	5159
5.721		7172	4342
5.749		999970	863807
5.781		61203	43232
5.949		227825	200998
5.996		3525	4475
6.107	DCB	200335	176360
6.144		10452	8267
6.237		2821	3460
6.281		3506	2884
6.31		8372	7915
6.373		4634	4316
6.53		4800	6250
6.586		10650	11397
6.829		2152	2645
7.013		8691	11043
7.786		2610	2864
7.844		2430	3925
7.908		2113	3045
8.117		2066	3539
8.216		22392	40148
8.321		1696	870
8.432		2548	4383
8.526		1698	861

9004857ACF DF100 ACA5516 T 171440031A 10225 SW-846 8082

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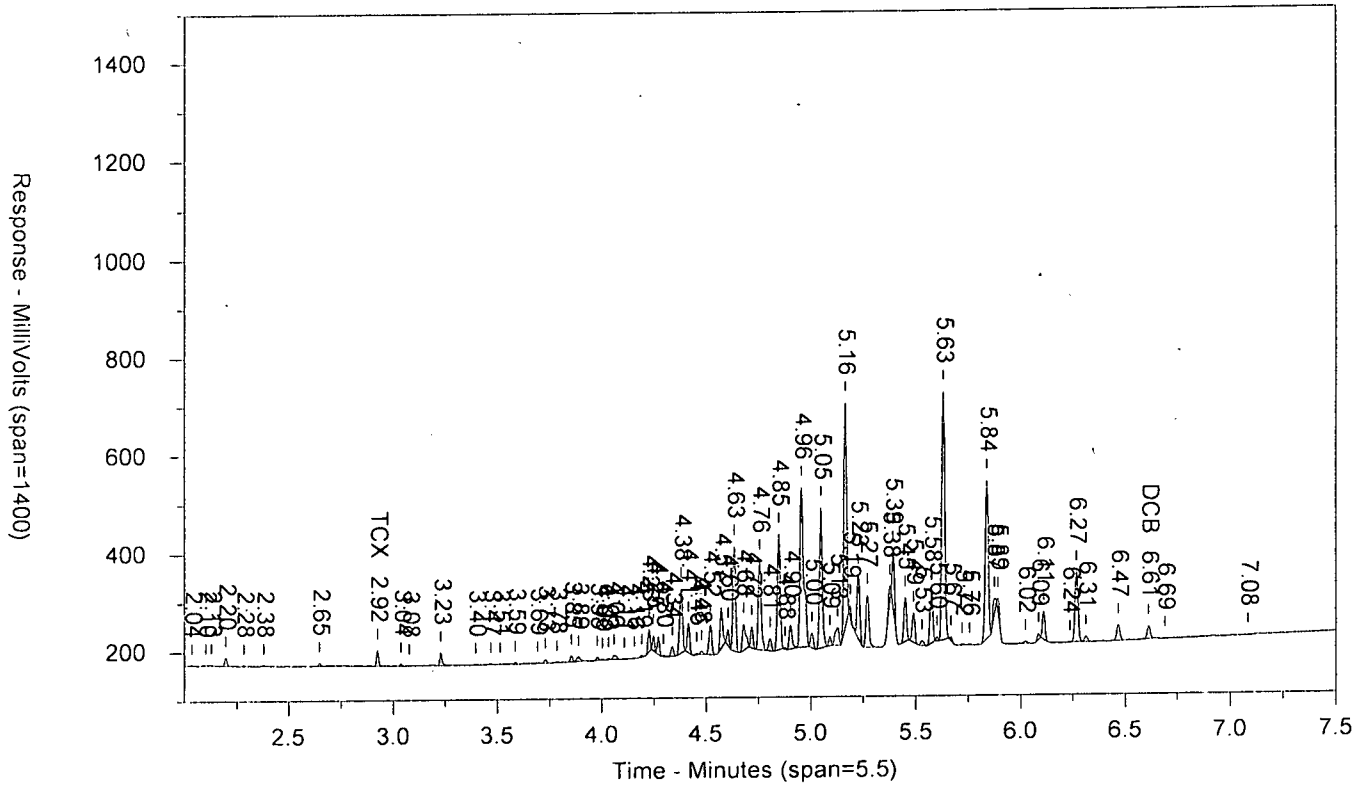

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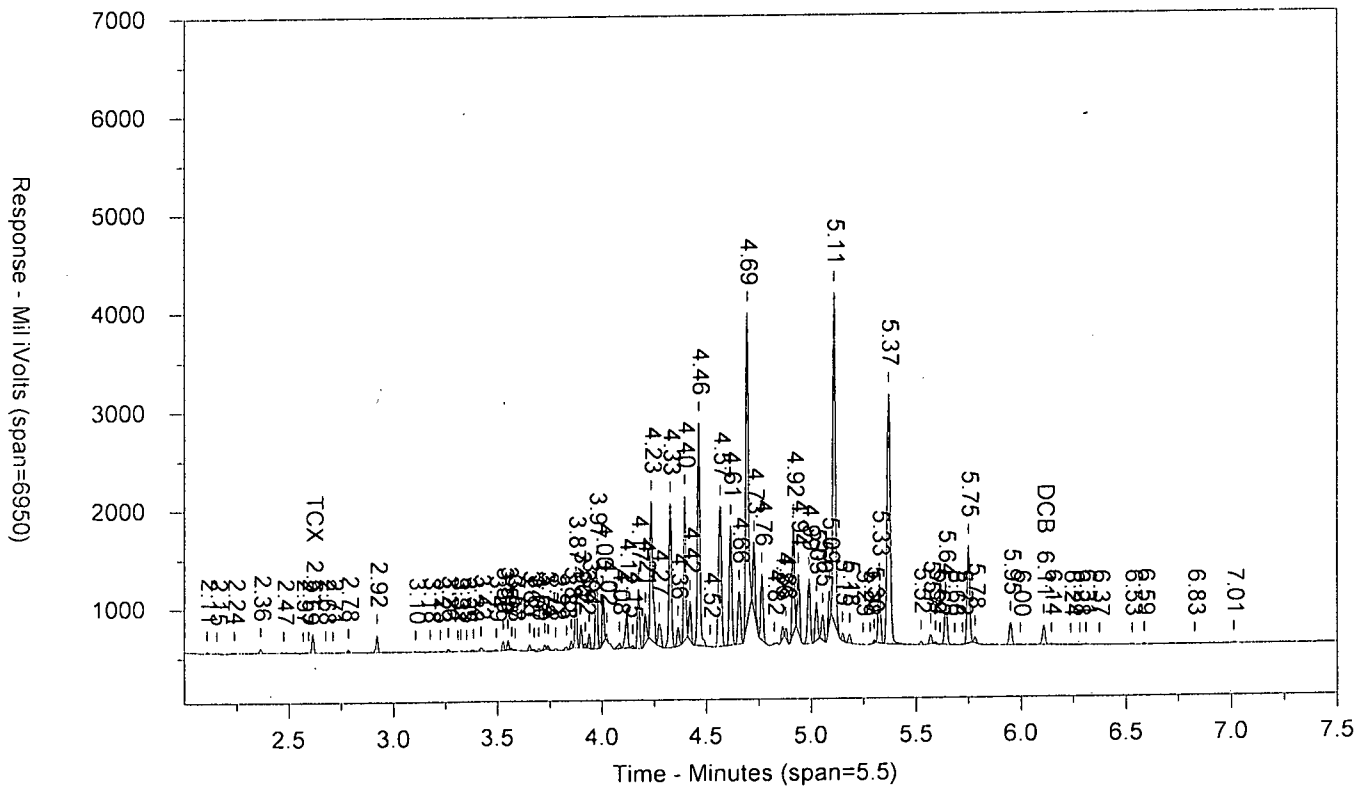

LANCASTER LABORATORIES

Sample Number: 9004857ACF DF100 ACA5516 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:24:00 PM Sample Weight: 10.36
Instrument ID: CP20-17342 Dilution Factor: 1000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	32585	27.677	TCX	2.614	193955	27.081	TCX
6.612	26546	37.235	DCB	6.107	200335	39.693	DCB

Files:
Area File: 20pcbs17137009.047.RAW
Area File: 20pcbs17137009B.047.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 11:32:43 PM
File Reported On: 5/26/2017 at 11:32:52 PM

9004857ACF DF100 ACA5516 T 171440031A 10225 SW-846 8082

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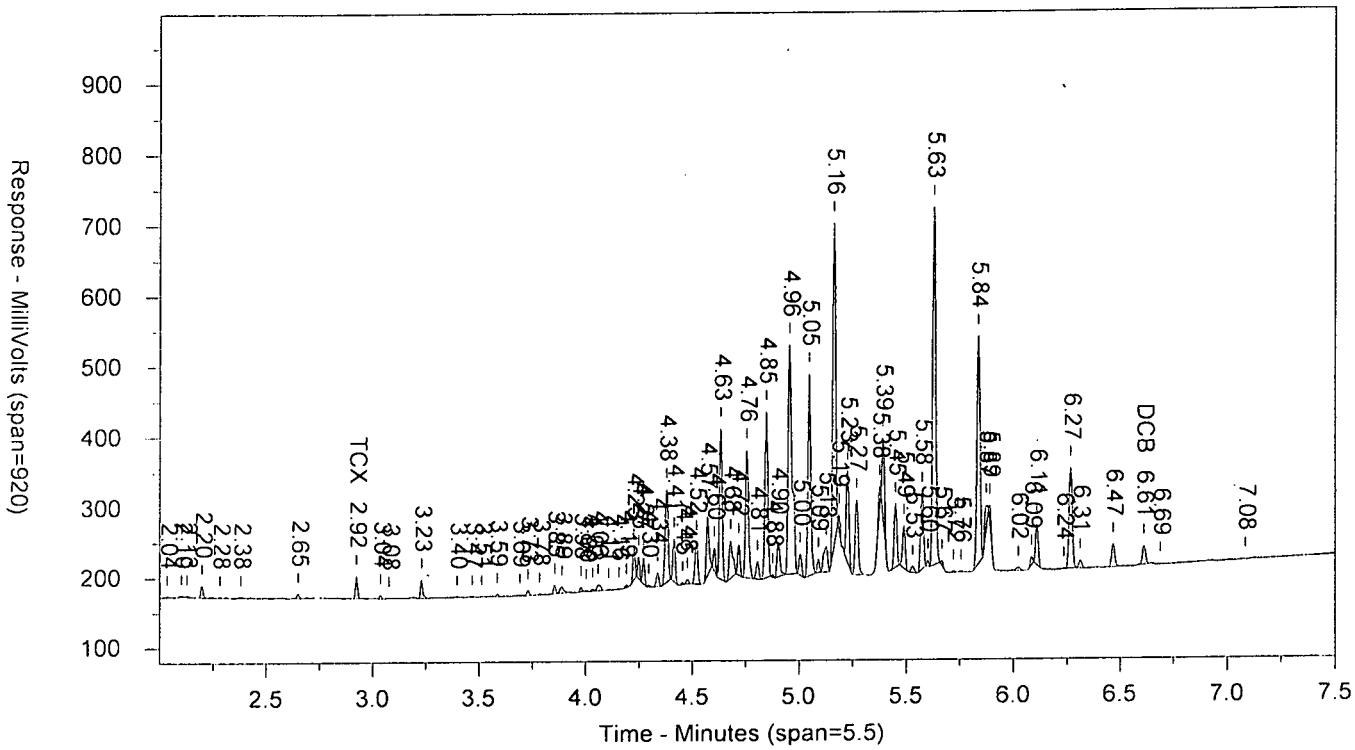

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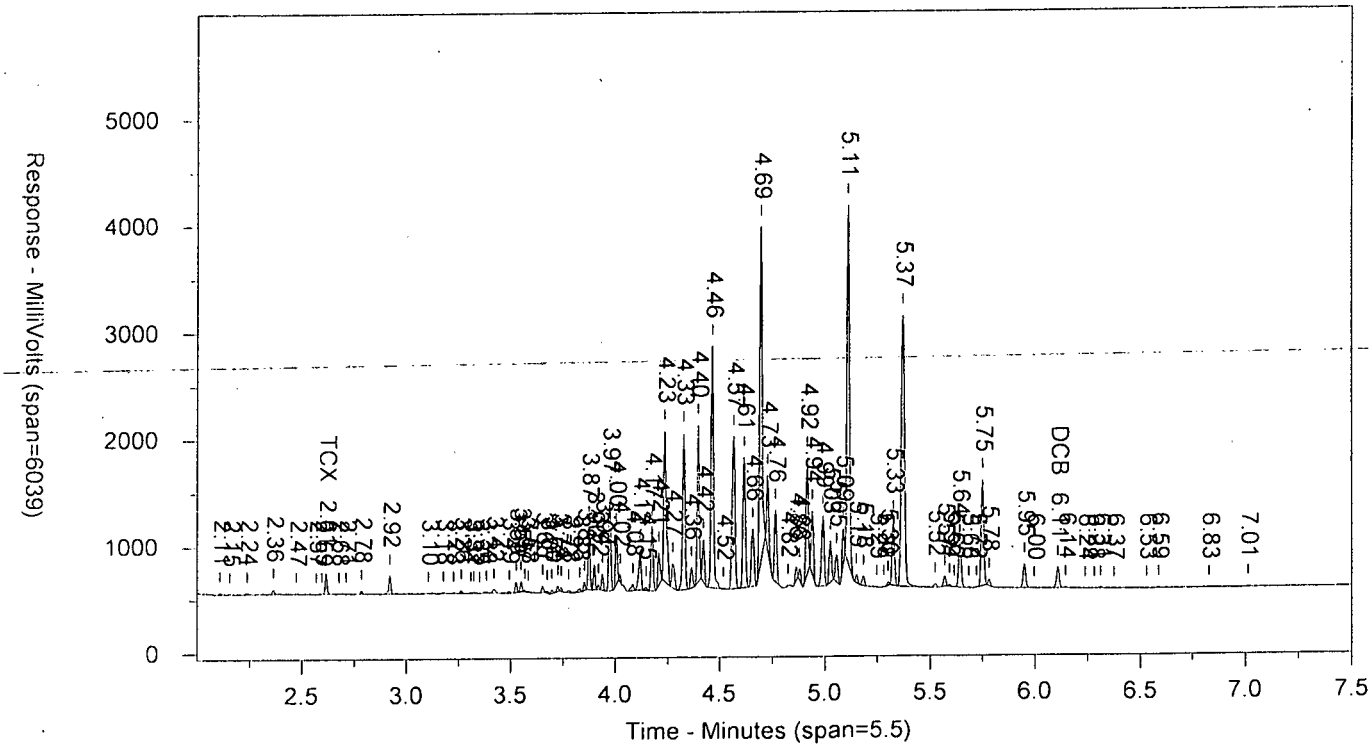

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Data Summary

Sample Name: 9004858 ACF DF200 A5517 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.35 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 23:35:29
Instrument	17342A
Result file	20PCBS17137009.048.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 129% (61 - 152) Conc: 36.52641
%SSR(DCB) * 184% (48 - 164) Conc: 51.9654

Analysis Report (B)

Injected on	May 26, 2017 23:35:29
Instrument	17342B
Result file	20PCBS17137009B.048.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 128% (61 - 152) Conc: 36.15784
%SSR(DCB) * 191% (48 - 164) Conc: 53.96923

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	21481	36.52641
Decachlorobiphenyl	6.58	6.61	6.64	18506	51.9654

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	129356	36.15784
Decachlorobiphenyl	6.08	6.11	6.14	136065	53.96923

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	A	36.52641				1.01	
☑ Decachlorobiphenyl	B	53.96923				3.78	

Multiple Component Data

Aroclor-1260 (%RSD 37.21)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.76	4.77	420998.8	19411.620284		1
5.03	5.05	5.07	480024.7	40057.285966		2
5.20	5.23	5.24	260944.8	18596.980205		3
5.37	5.39	5.41	243109.2	15184.800776		4
5.61	5.63	5.65	926989.4	23885.371813		5
5.82	5.84	5.86	530695.7	24341.647872		6

Height summation: **2862762.6**
Concentration CF: **23579.617819** L:

Aroclor-1260 (%RSD 11.85)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	3405188	23305.715899		1
4.44	4.46	4.48	4695838	27253.576186		2
4.55	4.57	4.59	3028341	21845.037971		3
4.90	4.92	4.94	2142294	20104.030822		4
5.09	5.11	5.13	5999842	24810.472971		5
5.35	5.37	5.39	4370018	27013.47246		6

Height summation: **23641521**
Concentration CF: **24055.384385** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑ PCB-1016			<9855.0724	<1913.0435			4	
☑ PCB-1221			<9855.0724	<2956.5217			3	
☑ PCB-1232			<9855.0724	<2376.8116			4	
☑ PCB-1242			<9855.0724	<2376.8116			4	
☑ PCB-1248			<9855.0724	<1913.0435			4	
☑ PCB-1254			<9855.0724	<2550.7246			4	
☑ PCB-1260	B	24055.384385	9855.0724	2260.8696		2.00	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004858** ACF DF200 A5517 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.35 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 23:35:29
Instrument : CP20--17342A
Result file : 20PCBS17137009.048.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 129% (61-152) Conc.: 36.52641
%SSR(DCB) : *184% (48-164) Conc.: 51.9654

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**109.53**	
3.16	3.19	3.20	6339.266	597.005118			1
3.37	3.40	3.41	2667.991	246.064184			2
+ 3.49	3.49	3.53	1286.371	105.37911			3
3.49	3.51	3.53	2152.67	176.346053			3
3.71	3.73	3.75	12915.71	954.979062			4
3.76	3.78	3.80	4227.244	382.137888			5
3.96	3.98	4.00	22690.33	2558.147421			6
Height Summation:			**50993.211**				
Amount Avg CF:			**819.113288**	Linear:			
Aroclor-1221					**2**	**31.13**	
3.06	3.08	3.10	1450.753	285.210556			1
3.16	3.19	3.20	6339.266	446.233487			3
Height Summation:			**7790.019**				
Amount Avg CF:			**365.722022**	Linear:			
Aroclor-1232					**6**	**124.69**	
3.16	3.19	3.20	6339.266	497.467978			1
3.38	3.40	3.42	2667.991	520.316031			2
+ 3.49	3.49	3.53	1286.371	228.63625			3
+ 3.49	3.51	3.53	2152.67	382.609991			3
3.49	3.53	3.53	3007.381	534.524111			3
3.71	3.73	3.75	12915.71	2116.157473			4
3.77	3.78	3.81	4227.244	883.442854			5
3.96	3.98	4.00	22690.33	6134.410162			6
Height Summation:			**51847.922**				
Amount Avg CF:			**1781.053102**	Linear:			
Aroclor-1242					**6**	**108.58**	
3.16	3.19	3.20	6339.266	696.881862			1
3.38	3.40	3.42	2667.991	297.01479			2
+ 3.49	3.49	3.53	1286.371	130.782015			3
+ 3.49	3.51	3.53	2152.67	218.856395			3
3.49	3.53	3.53	3007.381	305.752654			3
3.71	3.73	3.75	12915.71	1167.260342			4
3.77	3.78	3.81	4227.244	487.947782			5
3.96	3.98	4.00	22690.33	3203.855811			6
Height Summation:			**51847.922**				
Amount Avg CF:			**1026.452207**	Linear:			
Aroclor-1248					**6**	**162.10**	
3.76	3.78	3.80	4227.244	703.839711			1
3.83	3.85	3.87	44528.72	4076.812212			2
3.96	3.98	4.00	22690.33	1763.96999			3
4.05	4.07	4.09	20668.57	1932.887077			4
4.23	4.23	4.27	141479.9	11168.999946			5
+ 4.23	4.25	4.27	52256.75	4125.360832			5
4.61	4.63	4.65	437905.8	47158.929377			6
Height Summation:			**671500.564**				
Amount Avg CF:			**11134.239719**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 23:35:29
Instrument : CP20--17342B
Result file : 20PCBS17137009B.048.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 128% (61-152) Conc.: 36.15784
%SSR(DCB) : *191% (48-164) Conc.: 53.96923

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**105.08**	
2.88	2.88	2.92	8246.062	140.917501			1
3.21	3.23	3.25	21992.43	302.428017			2
+ 3.40	3.41	3.44	9185.046	125.700601			3
3.40	3.42	3.44	29783.81	407.601968			3
3.47	3.49	3.51	40025.43	463.18657			4
3.63	3.65	3.67	186542.7	2569.350736			5
+ 3.72	3.73	3.76	101762.5	1635.701135			6
3.72	3.74	3.76	108689.5	1747.043739			6
Height Summation:			**395279.932**				
Amount Avg CF:			**938.421422**	Linear:			
Aroclor-1221					**2**	**113.34**	
2.77	2.78	2.81	29251.4	947.197429			1
2.88	2.88	2.92	8246.062	104.417369			3
Height Summation:			**37497.462**				
Amount Avg CF:			**525.807399**	Linear:			
Aroclor-1232					**6**	**111.40**	
2.88	2.88	2.92	8246.062	115.344391			1
3.21	3.23	3.25	21992.43	636.505236			2
+ 3.40	3.41	3.44	9185.046	297.134213			3
3.40	3.42	3.44	29783.81	963.499686			3
3.47	3.49	3.51	40025.43	1053.914556			4
+ 3.66	3.67	3.70	24263.13	2339.377431			5
3.66	3.70	3.70	64664.76	6234.780103			5
+ 3.73	3.73	3.77	101762.5	3742.384156			6
3.73	3.74	3.77	108689.5	3997.129224			6
Height Summation:			**273401.992**				
Amount Avg CF:			**2166.862199**	Linear:			
Aroclor-1242					**6**	**107.46**	
2.88	2.88	2.92	8246.062	163.889505			1
3.21	3.23	3.25	21992.43	365.994482			2
+ 3.40	3.41	3.44	9185.046	155.439283			3
3.40	3.42	3.44	29783.81	504.033847			3
3.47	3.49	3.51	40025.43	592.656421			4
3.64	3.65	3.68	186542.7	3354.766463			5
+ 3.64	3.67	3.68	24263.13	436.34586			5
+ 3.73	3.73	3.77	101762.5	2043.133548			6
3.73	3.74	3.77	108689.5	2182.210183			6
Height Summation:			**395279.932**				
Amount Avg CF:			**1193.92515**	Linear:			
Aroclor-1248					**6**	**160.88**	
+ 3.40	3.41	3.44	9185.046	318.713093			1
3.40	3.42	3.44	29783.81	1033.472255			1
3.51	3.53	3.55	312810.3	3848.461619			2
3.63	3.65	3.67	186542.7	1836.938198			3
+ 3.72	3.73	3.76	101762.5	1387.803167			4
3.72	3.74	3.76	108689.5	1482.271292			4
3.86	3.87	3.90	1425313	10262.417353			5
4.22	4.24	4.26	2674198	43548.614016			6
Height Summation:			**4737337.31**				
Amount Avg CF:			**10335.362456**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004858** ACF DF200 A5517 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.35 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 23:35:29
Instrument : CP20--17342A
Result file : 20PCBS17137009.048.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**68.71**	
4.21	4.23	4.25	141479.9	9472.999074			1
4.55	4.57	4.59	164188.7	10939.110501			2
4.61	4.63	4.65	437905.8	14445.561674			3
4.73	4.76	4.77	420998.8	46268.590376			4
4.83	4.85	4.87	376904.7	18814.321919			5
5.14	5.16	5.18	866606.5	42112.562172			6
Height Summation:			**2408084.4**				
Amount Avg CF:			**23675.524286**	Linear:			
Aroclor-1260					**6**	**37.21**	
4.73	4.76	4.77	420998.8	19411.620284			1
5.03	5.05	5.07	480024.7	40057.285966			2
5.20	5.23	5.24	260944.8	18596.980205			3
+ 5.37	5.38	5.41	30916.12	1931.046307			4
5.37	5.39	5.41	243109.2	15184.800776			4
5.61	5.63	5.65	926989.4	23885.371813			5
5.82	5.84	5.86	530695.7	24341.647872			6
Height Summation:			**2862762.6**				
Amount Avg CF:			**23579.617819**	Linear:			
Aroclor-1262					**6**	**44.21**	
5.21	5.23	5.24	260944.8	10100.597827			1
+ 5.37	5.38	5.41	30916.12	1481.319595			2
5.37	5.39	5.41	243109.2	11648.370551			2
5.61	5.63	5.65	926989.4	18376.628886			3
5.81	5.84	5.85	530695.7	19036.577948			4
+ 5.87	5.88	5.91	41922.04	3035.593486			5
5.87	5.89	5.91	53128.33	3847.045908			5
6.25	6.27	6.29	229012	13630.651774			6
Height Summation:			**2243879.43**				
Amount Avg CF:			**12773.312149**	Linear:			
Aroclor-1268					**6**	**128.26**	
5.81	5.84	5.85	530695.7	8560.862775			1
+ 5.87	5.88	5.91	41922.04	775.071466			2
5.87	5.89	5.91	53128.33	982.257844			2
6.00	6.02	6.04	6942.065	137.643844			3
6.07	6.09	6.11	15914.25	1376.337542			4
6.25	6.27	6.29	229012	10993.211047			5
6.45	6.47	6.49	46174.69	283.233981			6
Height Summation:			**881867.035**				
Amount Avg CF:			**3722.257839**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 23:35:29
Instrument : CP20--17342B
Result file : 20PCBS17137009B.048.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**6**	**69.64**	
4.16	4.17	4.19	1259198	11639.081836			1
4.22	4.24	4.26	2674198	13930.880291			2
4.31	4.33	4.35	3405188	38132.781386			3
4.38	4.40	4.42	2450104	18986.673345			4
4.44	4.46	4.48	4695838	63190.842276			5
4.60	4.62	4.64	2058989	22743.221122			6
Height Summation:			**16543515**				
Amount Avg CF:			**28103.913376**	Linear:			
Aroclor-1260					**6**	**11.85**	
4.31	4.33	4.35	3405188	23305.715899			1
4.44	4.46	4.48	4695838	27253.576186			2
4.55	4.57	4.59	3028341	21845.037971			3
4.90	4.92	4.94	2142294	20104.030822			4
5.09	5.11	5.13	5999842	24810.472971			5
5.35	5.37	5.39	4370018	27013.47246			6
Height Summation:			**23641521**				
Amount Avg CF:			**24055.384385**	Linear:			
Aroclor-1262					**6**	**40.07**	
4.71	4.73	4.75	1374529	8194.669139			1
4.90	4.92	4.94	2142294	12839.371506			2
5.09	5.11	5.13	5999842	18904.833571			3
5.31	5.33	5.35	970792.1	7381.92297			4
5.35	5.37	5.39	4370018	20644.670161			5
5.73	5.75	5.77	1498594	13081.512413			6
Height Summation:			**16356069.1**				
Amount Avg CF:			**13507.82996**	Linear:			
Aroclor-1268					**6**	**126.23**	
5.31	5.33	5.35	970792.1	2266.61168			1
5.35	5.37	5.39	4370018	10077.596329			2
5.51	5.53	5.55	48046.59	128.969122			3
5.57	5.59	5.61	31181.34	346.181764			4
5.73	5.75	5.77	1498594	10266.824			5
5.93	5.95	5.97	341464.3	307.80665			6
Height Summation:			**7260096.33**				
Amount Avg CF:			**3898.998257**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			9855.0724	1913.0435		13.58	4	40	
Aroclor-1221			9855.0724	2956.5217		35.91	3	5	
Aroclor-1232			9855.0724	2376.8116		19.54	4	10	
Aroclor-1242			9855.0724	2376.8116		15.09	4	30	
Aroclor-1248			9855.0724	1913.0435		7.44	4	40	
Aroclor-1254			9855.0724	2550.7246		17.10	4	40	
Aroclor-1260			9855.0724	2260.8696		2.00	4	40	
Aroclor-1262			9855.0724	1913.0435		5.59	4	40	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004858** ACF DF200 A5517 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.35 g Total Volume: 2000 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	: May 26, 2017 23:35:29
Instrument	: CP20--17342A
Result file	: 20PCBS17137009.048.RAW
Calibration file	: 20PCBS1713701.CAL
Method file	: 20PCBS.MET

Analysis Report (B)

Injected on	: May 26, 2017 23:35:29
Instrument	: CP20--17342B
Result file	: 20PCBS17137009B.048.RAW
Calibration file	: 20PCBS1713701B.CAL
Method file	: 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1268			9855.0724	1913.0435		4.64	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004858ACF DF200 ADA5517 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:35:29 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.048.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.038		2306	2888
2.099		5991	14698
2.197		32484	22402
2.309		11894	7863
2.381		2725	3326
2.425		6171	5839
2.55		1920	4310
2.648		10739	6977
2.738		774	1470
2.775		5886	4500
2.828		6520	5598
2.924	TCX	21481	14899
3.037		4137	2597
3.078		1451	1201
3.193		6339	6707
3.229		20144	18075
3.359		977	771
3.398		2668	1727
3.466		1905	1295
3.494		1286	772
3.513		2153	1144
3.53		3007	2164
3.587		6616	5018
3.625		1171	1233
3.667		10079	7151
3.693		3665	2427
3.731		12916	10255
3.785		4227	3214
3.855		44529	33643
3.888		23004	32539
3.979		22690	16164
4.004		4118	2521
4.034		7096	4874
4.067		20669	25072
4.11		4100	3398
4.19		7369	5149
4.227		141480	102881
4.248		52257	31852
4.271		81506	58866
4.338		49579	42877
4.381		308917	302012
4.415		129825	106207
4.456		7696	5148
4.479		14307	10652
4.521		120145	113363
4.574		164189	157835
4.604		58636	38757
4.634		437906	375235
4.68		140678	163856
4.719		88149	68657
4.757		420999	413345
4.807		42658	39053
4.848		376905	370006
4.877		7574	4328

RT A	Compound A	Height A	Area A
4.904		95772	83669
4.957		687015	834598
5.005		73902	64646
5.049		480025	489119
5.092		32374	23205
5.128		67947	83416
5.165		866607	804951
5.187		35733	17169
5.227		260945	230496
5.271		196742	204176
5.376		30916	34095
5.392		243109	192482
5.45		167293	154484
5.49		107421	98033
5.532		19529	18725
5.575		180363	163694
5.601		12370	6644
5.632		926989	897773
5.665		9105	6359
5.716		2328	2957
5.798		1103	797
5.838		530696	542879
5.875		41922	46681
5.891		53128	38978
6.021		6942	8409
6.085		15914	12870
6.11		88964	80602
6.266		229012	227087
6.312		14901	15690
6.466		46175	48688
6.537		2749	2750
6.612	DCB	18506	18076
6.687		1099	1390
6.993		616	705
8.017		734	2109
8.679		2404	2784

LANCASTER LABORATORIES

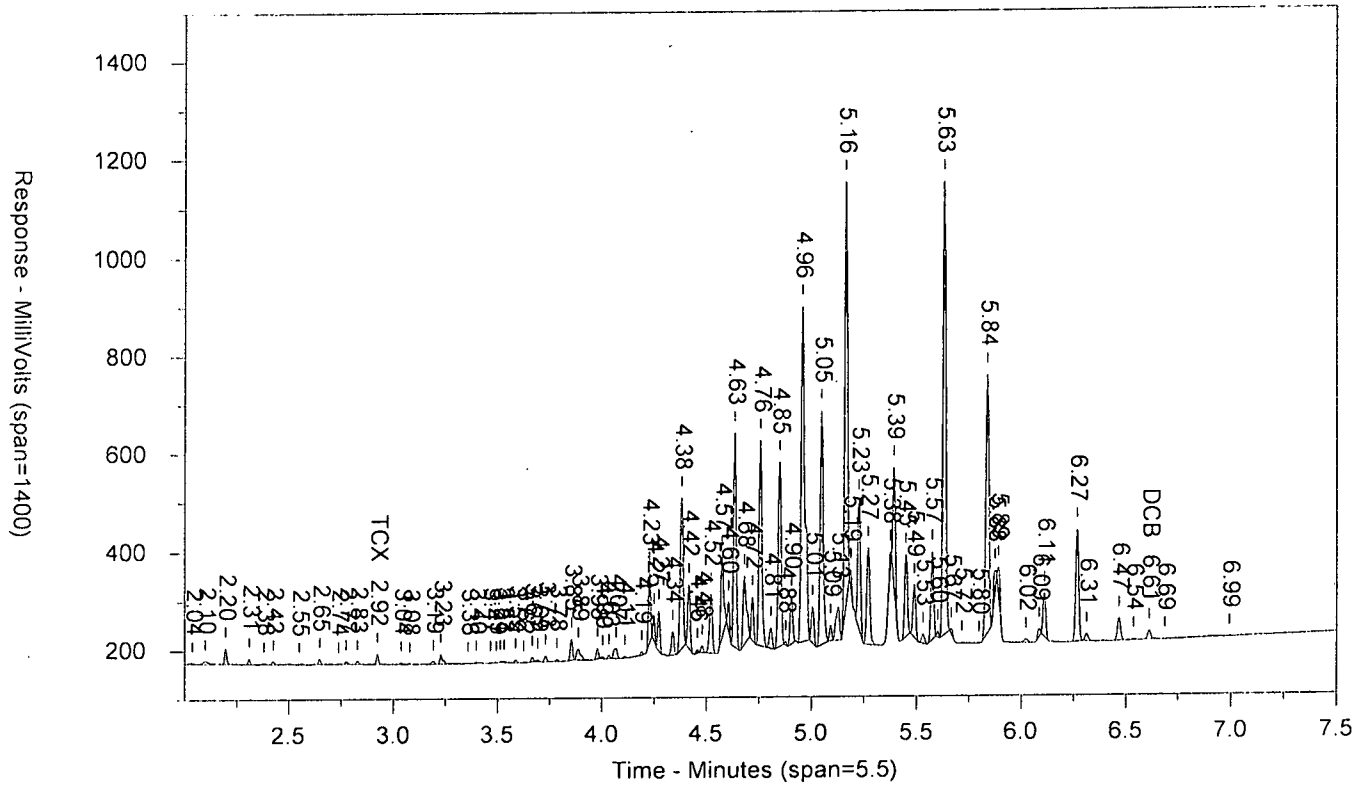
Sample Number: 9004858ACF DF200 ADA5517 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:35:29 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.048.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3046	1500
2.115		3609	4225
2.155		18087	52303
2.239		18909	32274
2.264		2755	3417
2.363		76666	57314
2.409		4645	4643
2.479		2634	2102
2.494		14163	14157
2.532		6728	9649
2.544		13965	6128
2.572		4497	6736
2.591		4158	2773
2.614	TCX	129356	77004
2.699		4867	8781
2.784		29251	18635
2.879		8246	6031
2.921		132369	111346
2.987		4309	2340
3.086		2044	1483
3.105		10378	4989
3.179		34269	45991
3.226		21992	17072
3.263		52878	34097
3.324		99580	66743
3.352		2553	1057
3.383		40308	33535
3.405		9185	4315
3.418		29784	26795
3.448		6744	3252
3.492		40025	24961
3.526		312810	186586
3.55		234914	135757
3.567		52341	23182
3.583		18719	9960
3.652		186543	116839
3.674		24263	11325
3.697		64665	42909
3.725		101763	52400
3.741		108690	56061
3.78		43455	40708
3.828		56082	57350
3.853		173759	104394
3.874		1425313	928585
3.899		473865	275271
3.919		137431	71078
3.938		288660	173570
3.973		2030013	1362137
4.005		970935	644297
4.023		176264	78406
4.084		119231	94670
4.118		706889	575404
4.146		119966	80841
4.175		1259198	931516

RT B	Compound B	Height B	Area B
4.208		525438	410410
4.235		2674198	2476080
4.274		521212	526042
4.327		3405188	2662247
4.364		314351	253524
4.396		2450105	1731606
4.421		790495	537867
4.464		4695838	3752283
4.518		69252	52931
4.566		3028341	2949452
4.616		2058989	1719689
4.658		1024665	858450
4.695		5801284	4881148
4.727		1374529	933022
4.765		1350249	1065200
4.824		20648	12596
4.865		279028	182620
4.882		142405	85310
4.917		2142294	1618658
4.94		986478	681502
4.99		1208099	1094150
5.026		719019	588773
5.056		462516	383247
5.088		445263	284043
5.111		5999843	4807400
5.151		133243	93936
5.183		154773	127145
5.226		5233	3845
5.248		11512	7504
5.282		5031	3378
5.302		50205	30689
5.325		970792	822103
5.369		4370018	4620336
5.525		48047	39863
5.57		154964	121522
5.594		31181	19190
5.643		694316	601042
5.75		1498594	1344627
5.781		97112	67414
5.948		341464	308151
6.107	DCB	136065	117351
6.282		4914	3467
6.309		4784	4596
6.586		4069	4420
7.616		2357	4403
7.925		2305	3713
7.984		1556	1586
8.213		22224	44242
8.428		3390	6098

9004858ACF DF200 ADA5517 T 171440031A 10225 SW-846 8082

\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137009.048.RAW



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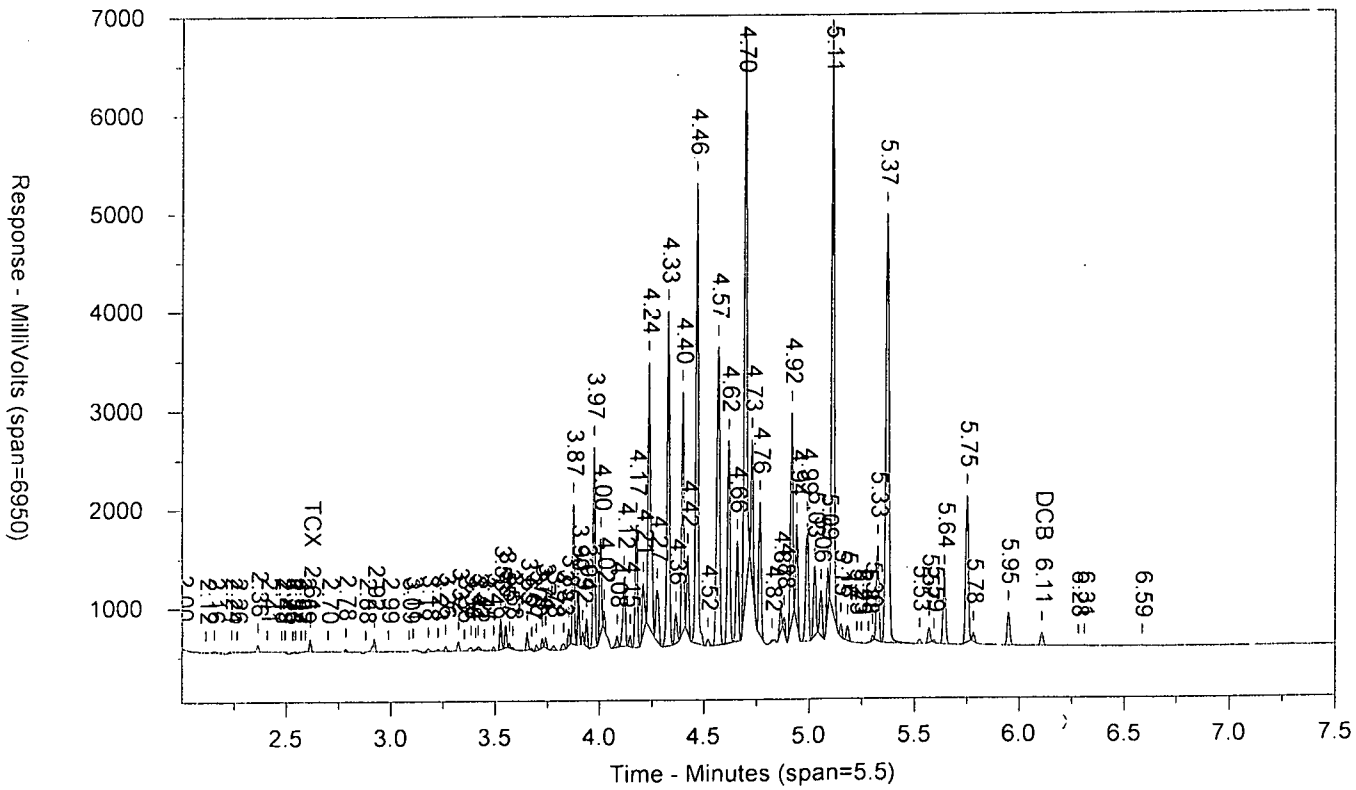

LANCASTER LABORATORIES

Sample Number: 9004858ACF DF200 ADA5517 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:35:29 PM Sample Weight: 10.35
Instrument ID: CP20-17342 Dilution Factor: 2000
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	21481	36.526	TCX	2.614	129356	36.158	TCX
6.612	18506	51.965	DCB	6.107	136065	53.969	DCB

Files:
Area File: 20pcbs17137009.048.RAW
Area File: 20pcbs17137009B.048.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 11:44:14 PM
File Reported On: 5/26/2017 at 11:44:26 PM

9004858ACF DF200 ADA5517 T 171440031A 10225 SW-846 8082

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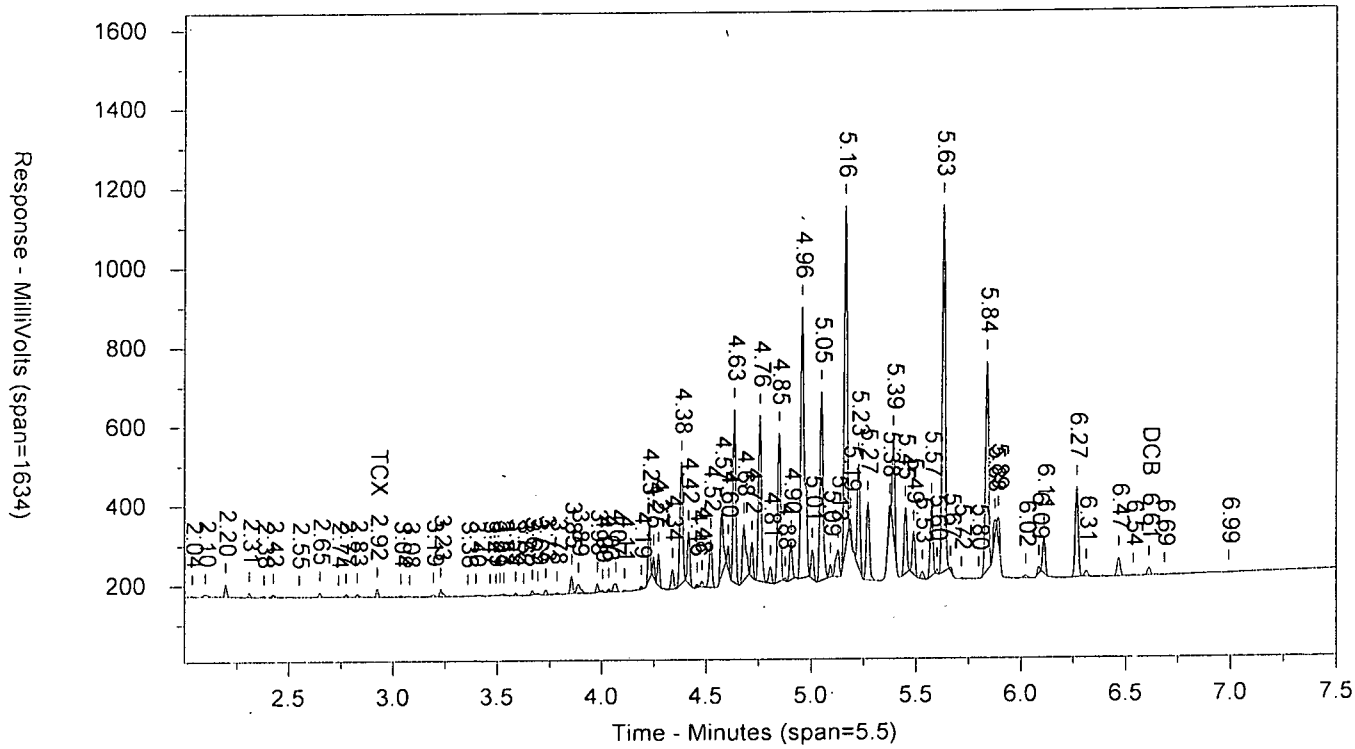

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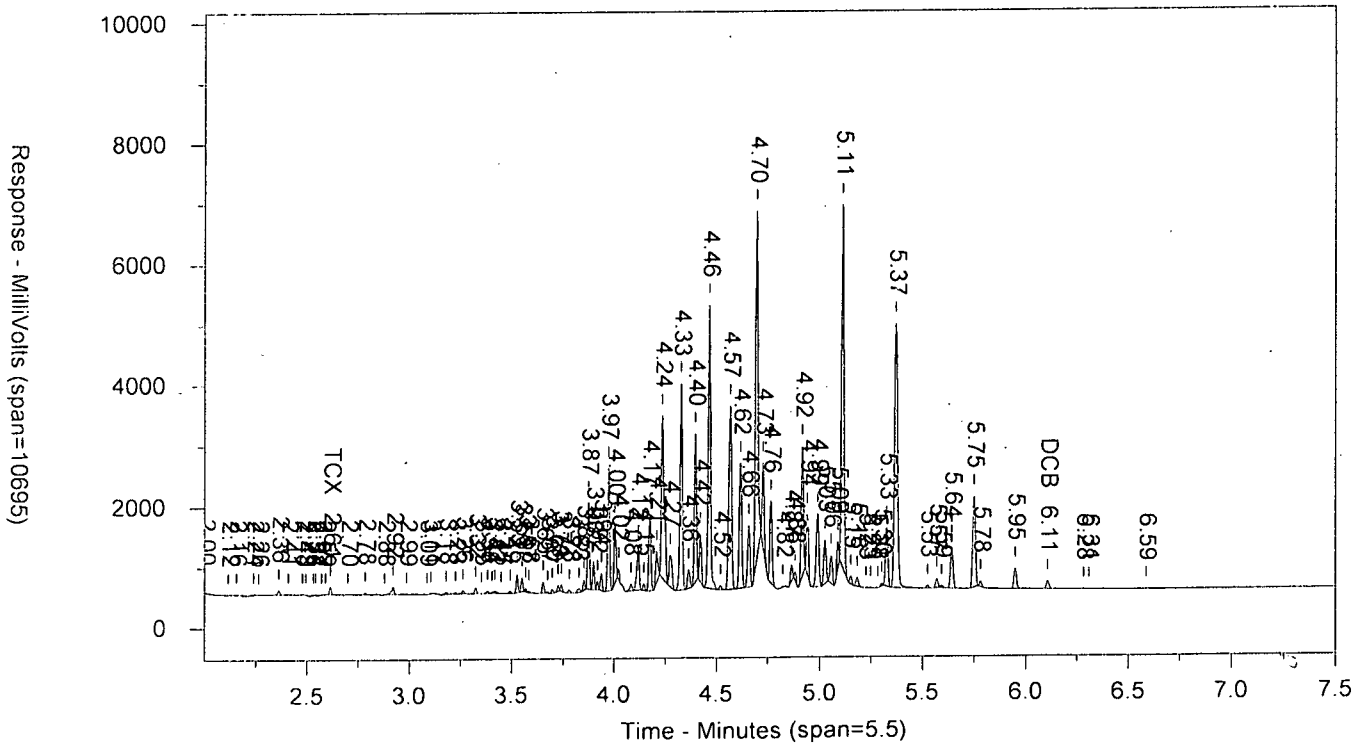

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Data Summary

Sample Name: 9004859 ACF DF50 A5518 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.17 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 23:47:03
Instrument	17342A
Result file	20PCBS17137009.049.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 75% (61 - 152) Conc: 21.48859
%SSR(DCB) 108% (48 - 164) Conc: 31.00937

Analysis Report (B)

Injected on	May 26, 2017 23:47:03
Instrument	17342B
Result file	20PCBS17137009B.049.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 71% (61 - 152) Conc: 20.35523
%SSR(DCB) 99% (48 - 164) Conc: 28.48228

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	49670	21.48859
Decachlorobiphenyl	6.58	6.61	6.64	43405	31.00937

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	286219	20.35523
Decachlorobiphenyl	6.08	6.11	6.14	282237	28.48228

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	A	21.48859				5.42	
☑	Decachlorobiphenyl	A	31.00937				8.50	

Multiple Component Data

Aroclor-1260 (%RSD 33.50)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.76	4.77	411818.6	4831.102956		1
5.03	5.05	5.07	436046.4	9257.848017		2
5.20	5.23	5.24	260929.2	4731.24971		3
5.37	5.39	5.41	231206.2	3674.232088		4
5.61	5.63	5.65	1044490	6847.324817		5
5.82	5.84	5.86	583463.4	6808.907446		6

Height summation: **2967953.8**
Concentration CF: **6025.110839** L:

Aroclor-1260 (%RSD 15.83)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	3223839	5613.763392		1
4.44	4.46	4.48	4713201	6959.623707		2
4.55	4.57	4.59	2999885	5505.693612		3
4.90	4.92	4.94	2162650	5163.565793		4
5.09	5.11	5.13	6819334	7174.581894		5
5.35	5.37	5.39	4761364	7488.381783		6

Height summation: **24680273**
Concentration CF: **6317.601697** L:

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☑	PCB-1016			<2507.3747	<486.7257			4	
☑	PCB-1221			<2507.3747	<752.2124			3	
☑	PCB-1232			<2507.3747	<604.7198			4	
☑	PCB-1242			<2507.3747	<604.7198			4	
☑	PCB-1248			<2507.3747	<486.7257			4	
☑	PCB-1254			<2507.3747	<648.9676			4	
☑	PCB-1260	B	6317.601697	2507.3747	575.2213		4.74	4	

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by: Valerie L. Tomayko, Principal Specialist
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004859** ACF DF50 A5518 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.17 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 23:47:03
Instrument : CP20--17342A
Result file : 20PCBS17137009.049.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 75% (61-152) Conc.: 21.48859
%SSR(DCB) : 108% (48-164) Conc.: 31.00937

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	90.47	
3.16	3.18	3.20	1300.696	31.165514			1
3.37	3.40	3.41	1758.746	41.26925			2
3.49	3.51	3.53	1375.785	28.674659			3
3.71	3.73	3.75	10364.38	194.974717			4
3.76	3.79	3.80	3317.933	76.311467			5
3.96	3.98	4.00	8418.218	241.470638			6
Height Summation:			**26535.758**				
Amount Avg CF:			**102.311041**	Linear:			
Aroclor-1221					1		
3.16	3.18	3.20	1300.696	23.294768			3
Height Summation:			**1300.696**				
Amount Avg CF:			**23.294768**	Linear:			
Aroclor-1232					6	99.54	
3.16	3.18	3.20	1300.696	25.969367			1
3.38	3.40	3.42	1758.746	87.266061			2
3.49	3.51	3.53	1375.785	62.2141			3
3.71	3.73	3.75	10364.38	432.048429			4
3.77	3.79	3.81	3317.933	176.42014			5
3.96	3.98	4.00	8418.218	579.044008			6
Height Summation:			**26535.758**				
Amount Avg CF:			**227.160351**	Linear:			
Aroclor-1242					6	91.09	
3.16	3.18	3.20	1300.696	36.379389			1
3.38	3.40	3.42	1758.746	49.814554			2
3.49	3.51	3.53	1375.785	35.587031			3
3.71	3.73	3.75	10364.38	238.315439			4
3.77	3.79	3.81	3317.933	97.441296			5
3.96	3.98	4.00	8418.218	302.420846			6
Height Summation:			**26535.758**				
Amount Avg CF:			**126.659759**	Linear:			
Aroclor-1248					6	178.84	
3.76	3.79	3.80	3317.933	140.554083			1
3.83	3.86	3.87	18083.16	421.225085			2
3.96	3.98	4.00	8418.218	166.506025			3
4.05	4.06	4.09	14516.19	345.388682			4
4.23	4.23	4.27	92553.34	1858.964285			5
+ 4.23	4.25	4.27	39786.07	799.116306			5
4.61	4.63	4.65	350249.2	9596.65312			6
Height Summation:			**487138.041**				
Amount Avg CF:			**2088.215213**	Linear:			
Aroclor-1254					6	81.31	
4.21	4.23	4.25	92553.34	1576.682517			1
4.55	4.57	4.59	113466.4	1923.381465			2
4.61	4.63	4.65	350249.2	2939.613904			3
4.73	4.76	4.77	411818.6	11515.181136			4
4.83	4.85	4.87	333659.1	4237.594508			5
5.14	5.16	5.18	861766	10654.632732			6
Height Summation:			**2163512.64**				
Amount Avg CF:			**5474.514377**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 23:47:03
Instrument : CP20--17342B
Result file : 20PCBS17137009B.049.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 71% (61-152) Conc.: 20.35523
%SSR(DCB) : 99% (48-164) Conc.: 28.48228

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					5	75.08	
3.21	3.23	3.25	9762.449	34.155999			2
3.40	3.42	3.44	52074.61	181.318222			3
3.47	3.49	3.51	28019.84	82.498302			4
3.63	3.65	3.67	77840.94	272.780054			5
3.72	3.73	3.76	95912.52	392.23911			6
+ 3.72	3.74	3.76	50254.19	205.517056			6
Height Summation:			**263610.359**				
Amount Avg CF:			**192.598337**	Linear:			
Aroclor-1221					1		
2.77	2.78	2.81	23183.2	190.997042			1
Height Summation:			**23183.2**				
Amount Avg CF:			**190.997042**	Linear:			
Aroclor-1232					5	81.55	
3.21	3.23	3.25	9762.449	71.886435			2
3.40	3.42	3.44	52074.61	428.604529			3
3.47	3.49	3.51	28019.84	187.713044			4
+ 3.66	3.68	3.70	20961.11	514.194176			5
3.66	3.70	3.70	42498.54	1042.525981			5
3.73	3.73	3.77	95912.52	897.419093			6
+ 3.73	3.74	3.77	50254.19	470.210455			6
Height Summation:			**228267.959**				
Amount Avg CF:			**525.629817**	Linear:			
Aroclor-1242					5	75.10	
3.21	3.23	3.25	9762.449	41.335149			2
3.40	3.42	3.44	52074.61	224.215112			3
3.47	3.49	3.51	28019.84	105.558217			4
3.64	3.65	3.68	77840.94	356.165223			5
3.73	3.73	3.77	95912.52	489.940899			6
+ 3.73	3.74	3.77	50254.19	256.708749			6
Height Summation:			**263610.359**				
Amount Avg CF:			**243.44292**	Linear:			
Aroclor-1248					6	169.31	
3.40	3.42	3.44	52074.61	459.731224			1
3.51	3.53	3.55	138844.9	434.605735			2
3.63	3.65	3.67	77840.94	195.022071			3
3.72	3.73	3.76	95912.52	332.793484			4
+ 3.72	3.74	3.76	50254.19	174.370009			4
3.86	3.87	3.90	979598.9	1794.515115			5
4.22	4.24	4.26	2144811	8886.468624			6
Height Summation:			**3489082.87**				
Amount Avg CF:			**2017.189375**	Linear:			
Aroclor-1254					6	81.92	
4.16	4.18	4.19	879204.5	2067.635615			1
4.22	4.24	4.26	2144811	2842.715742			2
4.31	4.33	4.35	3223839	9185.232203			3
4.38	4.40	4.42	1998922	3941.119584			4
4.44	4.46	4.48	4713201	16136.762418			5
4.60	4.62	4.64	1740771	4892.141341			6
Height Summation:			**14700748.5**				
Amount Avg CF:			**6510.934484**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004859** ACF DF50 A5518 Sample ID: AD **Batchnumber: 171440031A**
Sample Amount: 10.17 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 23:47:03
Instrument : CP20--17342A
Result file : 20PCBS17137009.049.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**33.50**	
4.73	4.76	4.77	411818.6	4831.102956			1
5.03	5.05	5.07	436046.4	9257.848017			2
5.20	5.23	5.24	260929.2	4731.24971			3
+ 5.37	5.38	5.41	39881.05	633.772942			4
5.37	5.39	5.41	231206.2	3674.232088			4
5.61	5.63	5.65	1044490	6847.324817			5
5.82	5.84	5.86	583463.4	6808.907446			6
Height Summation:			**2967953.8**				
Amount Avg CF:			**6025.110839**	Linear:			
Aroclor-1262					**6**	**46.45**	
5.21	5.23	5.24	260929.2	2569.688735			1
+ 5.37	5.38	5.41	39881.05	486.17181			2
5.37	5.39	5.41	231206.2	2818.530021			2
5.61	5.63	5.65	1044490	5268.109201			3
5.81	5.84	5.85	583463.4	5324.959839			4
5.87	5.87	5.91	65043.64	1198.29969			5
+ 5.87	5.89	5.91	53120.99	978.648579			5
6.25	6.27	6.29	249602.6	3779.78323			6
Height Summation:			**2434735.04**				
Amount Avg CF:			**3493.228453**	Linear:			
Aroclor-1268					**6**	**126.16**	
5.81	5.84	5.85	583463.4	2394.666236			1
5.87	5.87	5.91	65043.64	305.959247			2
+ 5.87	5.89	5.91	53120.99	249.876208			2
6.00	6.02	6.04	7598.604	38.331987			3
6.07	6.08	6.11	18478.75	406.603184			4
6.25	6.27	6.29	249602.6	3048.42024			5
6.45	6.47	6.49	55542.3	86.681144			6
Height Summation:			**979729.294**				
Amount Avg CF:			**1046.777006**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 23:47:03
Instrument : CP20--17342B
Result file : 20PCBS17137009B.049.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					**6**	**15.83**	
4.31	4.33	4.35	3223839	5613.763392			1
4.44	4.46	4.48	4713201	6959.623707			2
4.55	4.57	4.59	2999885	5505.693612			3
4.90	4.92	4.94	2162650	5163.565793			4
5.09	5.11	5.13	6819334	7174.581894			5
5.35	5.37	5.39	4761364	7488.381783			6
Height Summation:			**24680273**				
Amount Avg CF:			**6317.601697**	Linear:			
Aroclor-1262					**6**	**41.96**	
4.71	4.73	4.75	1423747	2159.582224			1
4.90	4.92	4.94	2162650	3297.693885			2
5.09	5.11	5.13	6819334	5466.815438			3
5.31	5.33	5.35	1048569	2028.615293			4
5.35	5.37	5.39	4761364	5722.891501			5
5.73	5.75	5.77	1816741	4034.840683			6
Height Summation:			**18032405**				
Amount Avg CF:			**3785.07317**	Linear:			
Aroclor-1268					**6**	**127.51**	
5.31	5.33	5.35	1048569	622.884191			1
5.35	5.37	5.39	4761364	2793.601929			2
5.51	5.52	5.55	56458.18	38.557552			3
5.57	5.59	5.61	36949.09	104.36925			4
5.73	5.75	5.77	1816741	3166.682709			5
5.93	5.95	5.97	396952	91.039548			6
Height Summation:			**8117033.27**				
Amount Avg CF:			**1136.189196**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2507.3747	486.7257		** 61.23	4	40	
Aroclor-1221			2507.3747	752.2124		** 156.52	3	5	
Aroclor-1232			2507.3747	604.7198		** 79.30	4	10	
Aroclor-1242			2507.3747	604.7198		** 63.11	4	30	
Aroclor-1248			2507.3747	486.7257		3.46	4	40	
Aroclor-1254			2507.3747	648.9676		17.29	4	40	
Aroclor-1260			2507.3747	575.2213		4.74	4	40	
Aroclor-1262			2507.3747	486.7257		8.02	4	40	
Aroclor-1268			2507.3747	486.7257		8.19	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004859ACF DF50 ADA5518 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:47:03 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.049.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		2064	2012
2.1		1790	2522
2.127		1206	982
2.197		17383	12308
2.309		1713	1167
2.379		2736	3679
2.648		7985	5650
2.831		962	793
2.924	TCX	49670	33352
3.036		3610	2384
3.182		1301	1799
3.229		18816	17162
3.397		1759	1054
3.466		2192	2087
3.513		1376	1033
3.587		6071	4145
3.693		2458	2526
3.73		10364	7967
3.786		3318	2806
3.855		18083	12746
3.89		18262	19561
3.979		8418	5750
4.004		1689	1050
4.033		4295	2831
4.059		14516	16910
4.111		2378	1966
4.154		1770	1112
4.191		6139	4624
4.227		92553	67823
4.247		39786	23698
4.271		48188	35193
4.297		2515	1455
4.338		40534	34761
4.381		223256	217031
4.415		110410	89013
4.455		6344	4437
4.478		10057	7454
4.52		89613	88954
4.573		113466	116048
4.604		44739	27739
4.635		350249	299064
4.68		134688	160317
4.718		70372	54281
4.756		411819	397215
4.807		36146	32784
4.849		333659	314445
4.877		7447	4209
4.904		96365	85094
4.956		673518	829528
5.006		71486	64840
5.049		436046	440896
5.092		35619	26011
5.127		70697	86480
5.165		861766	825228

RT A	Compound A	Height A	Area A
5.187		37629	17894
5.227		260929	236806
5.27		206023	215226
5.375		39881	34531
5.391		231206	190011
5.45		167267	156647
5.49		112880	103508
5.53		19941	18541
5.575		184785	163792
5.601		15847	9199
5.631		1044490	974650
5.666		9974	6378
5.716		2724	3115
5.837		583463	600914
5.873		65044	58961
5.89		53121	37161
6.02		7599	9151
6.085		18479	14751
6.108		94625	88928
6.266		249603	258287
6.31		19411	17845
6.466		55542	56031
6.611	DCB	43405	45284
6.689		1112	1333
7.862		536	4424
8.024		2508	3866

LANCASTER LABORATORIES

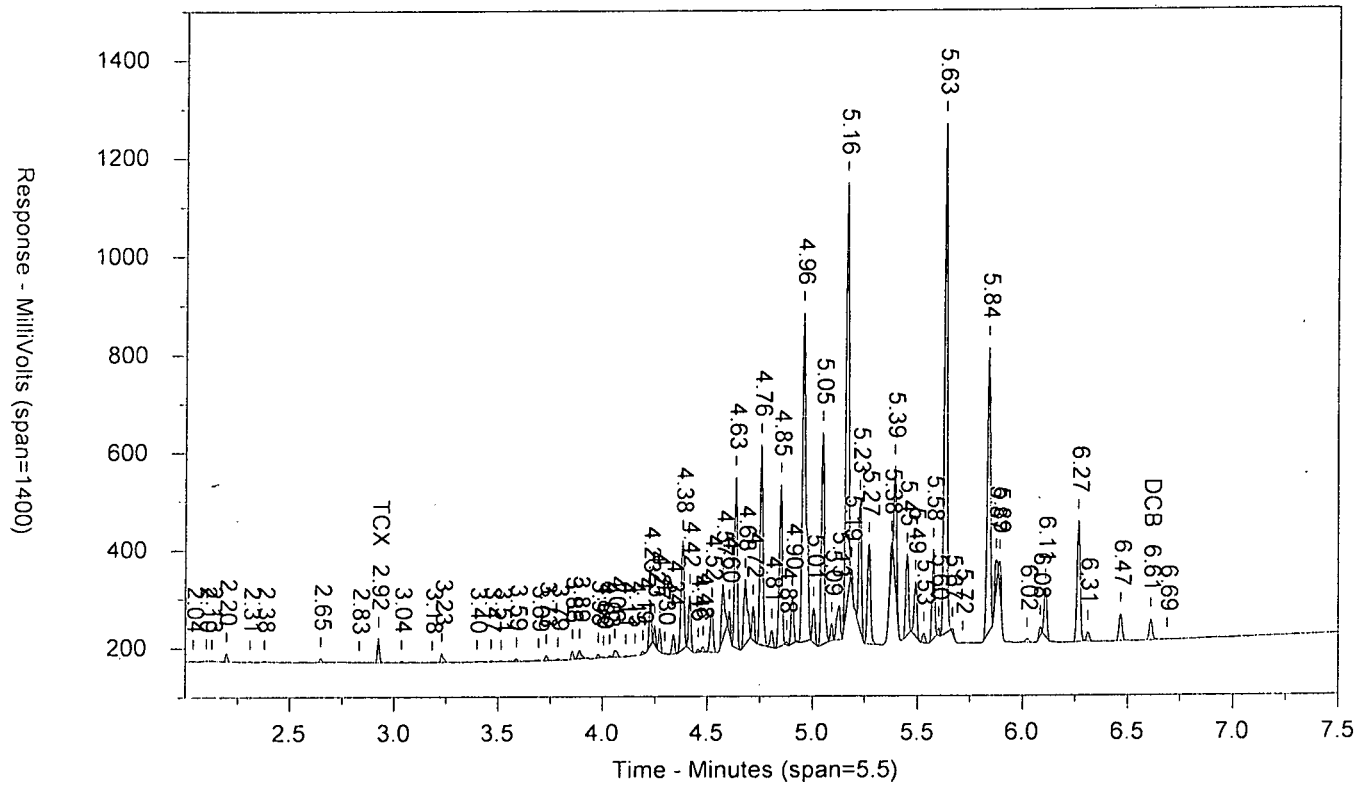
Sample Number: 9004859ACF DF50 ADA5518 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:47:03 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.049.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.113		7185	11981
2.156		11821	12956
2.234		12651	26768
2.363		54236	36859
2.428		2221	747
2.474		3006	3098
2.566		4626	2712
2.614	TCX	286219	184903
2.703		5699	10846
2.745		1726	1203
2.784		23183	13431
2.921		134175	108753
2.988		2792	1394
3.049		2111	1802
3.106		5140	2895
3.177		13894	10661
3.204		2688	1829
3.227		9762	6068
3.263		47258	29918
3.309		4018	2044
3.324		6439	3038
3.383		19220	17386
3.419		52075	56588
3.492		28020	17555
3.526		138845	81421
3.55		171146	96272
3.567		35652	15912
3.583		17054	10383
3.653		77841	50075
3.675		20961	11901
3.697		42499	27985
3.726		95913	51058
3.742		50254	25069
3.778		32145	28459
3.829		55626	53166
3.853		106860	64767
3.875		979599	629222
3.9		259285	153077
3.92		99853	50967
3.938		269755	164766
3.974		1485291	1004804
4.006		805005	518171
4.023		113353	51040
4.083		78838	69103
4.118		521208	453202
4.147		111742	76575
4.175		879205	649371
4.208		475998	390990
4.235		2144811	2048975
4.274		492671	502408
4.327		3223839	2514326
4.364		282001	221930
4.397		1998922	1420675
4.421		780194	552534

RT B	Compound B	Height B	Area B
4.463		4713201	3803691
4.518		29439	20365
4.566		2999885	2900331
4.616		1740771	1484466
4.658		1054854	896930
4.694		5899518	5108844
4.727		1423747	1002903
4.766		1584653	1152420
4.824		20003	13278
4.837		15595	7691
4.865		288959	188524
4.881		178463	103480
4.916		2162651	1677612
4.94		1024176	733775
4.99		1256647	1146282
5.025		798599	617990
5.056		502313	400223
5.088		484191	298253
5.11		6819335	5585163
5.151		149791	103542
5.183		171554	141768
5.247		13998	9401
5.302		52416	31986
5.326		1048569	890857
5.37		4761365	5142093
5.525		56458	47728
5.57		174766	138833
5.594		36949	24281
5.643		763881	668042
5.749		1816741	1528777
5.781		104552	77512
5.948		396952	338644
6.107	DCB	282237	252577
6.279		5344	4928
6.31		11862	12036
6.592		3020	4300
7.009		4356	6142
7.178		1727	734
7.555		13085	19378
7.722		2252	3248
7.841		2798	3635
7.904		1575	1462
8.112		3086	5711
8.212		21318	39543
8.429		2599	4433

9004859ACF DF50 ADA5518 T 171440031A 10225 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137009.049.RAW



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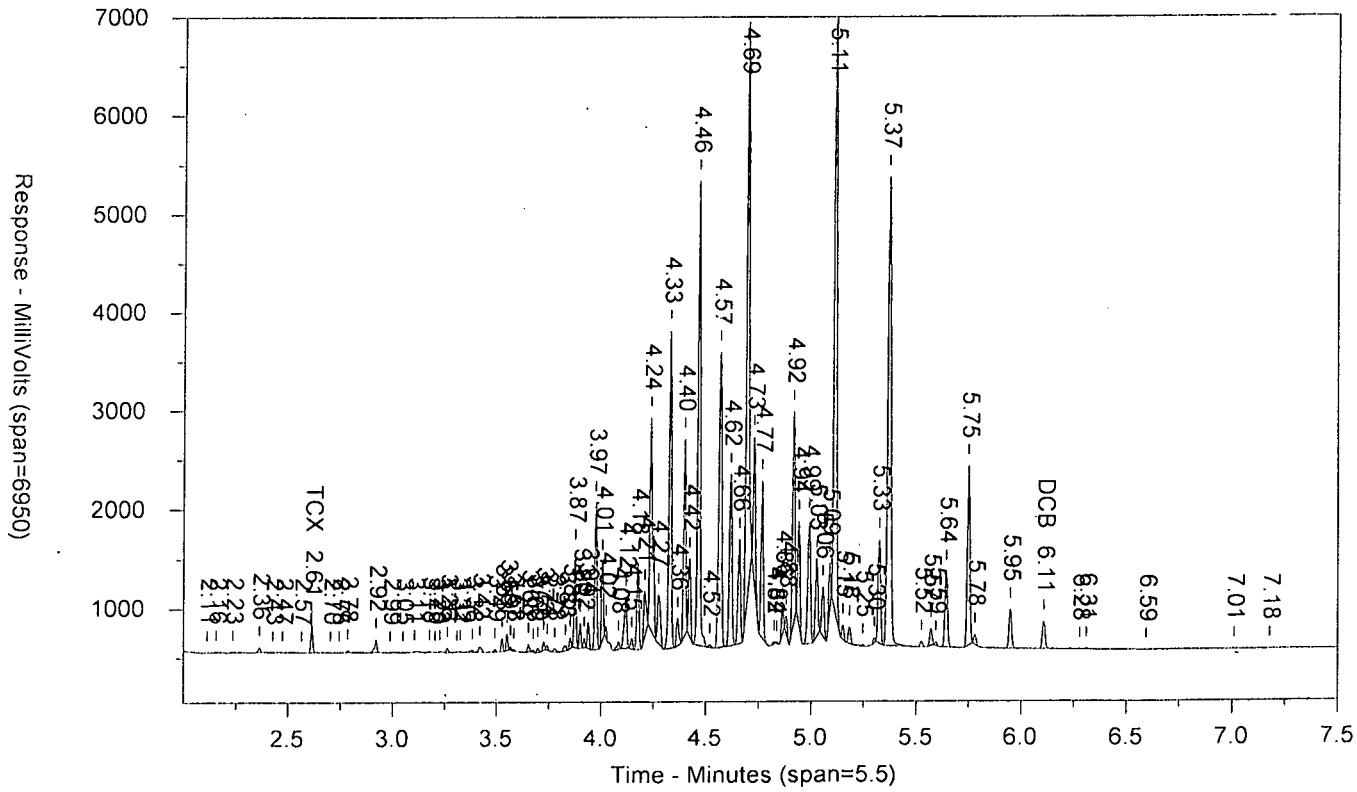

LANCASTER LABORATORIES

Sample Number: 9004859ACF DF50 ADA5518 T 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 11:47:03 PM Sample Weight: 10.17
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	49670	21.489	TCX	2.614	286219	20.355	TCX
6.611	43405	31.009	DCB	6.107	282237	28.482	DCB

Files:
Area File: 20pcbs17137009.049.RAW
Area File: 20pcbs17137009B.049.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 11:55:47 PM
File Reported On: 5/26/2017 at 11:55:58 PM

9004859ACF DF50 ADA5518 T 171440031A 10225 SW-846 8082

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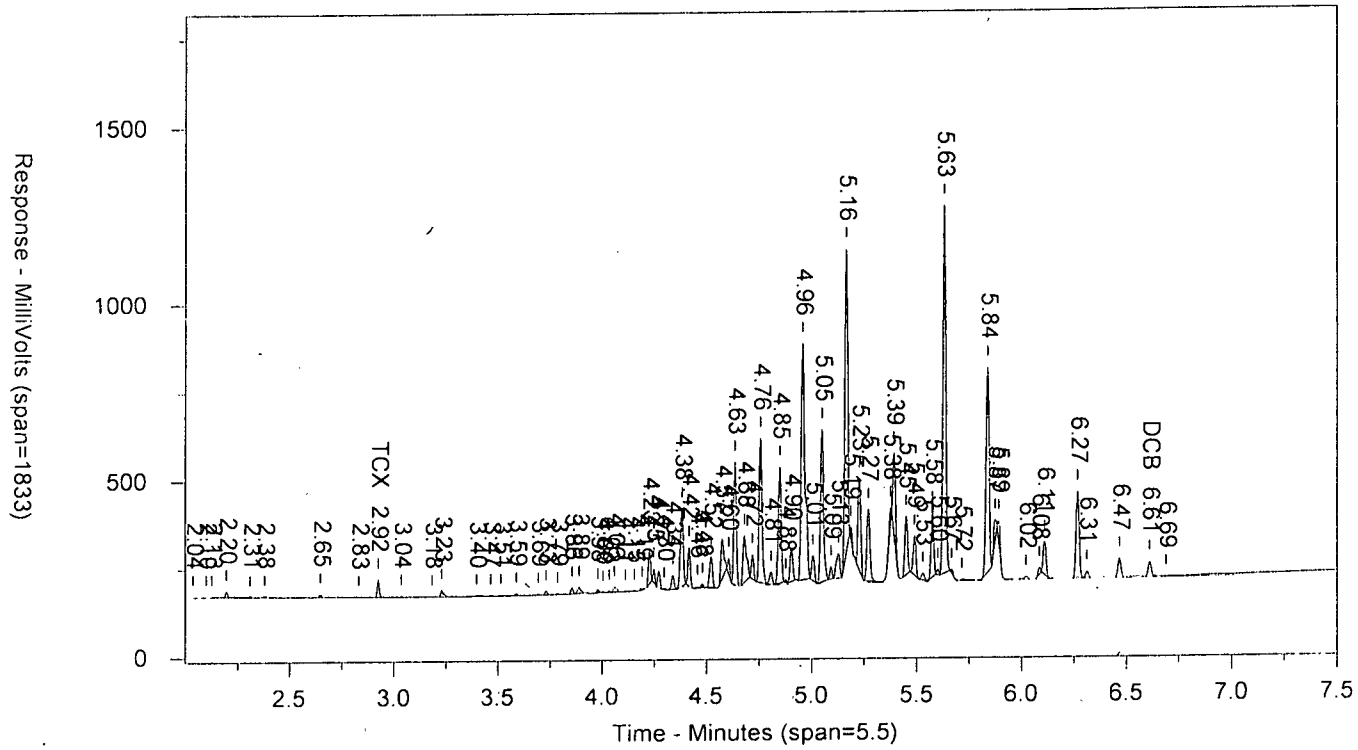

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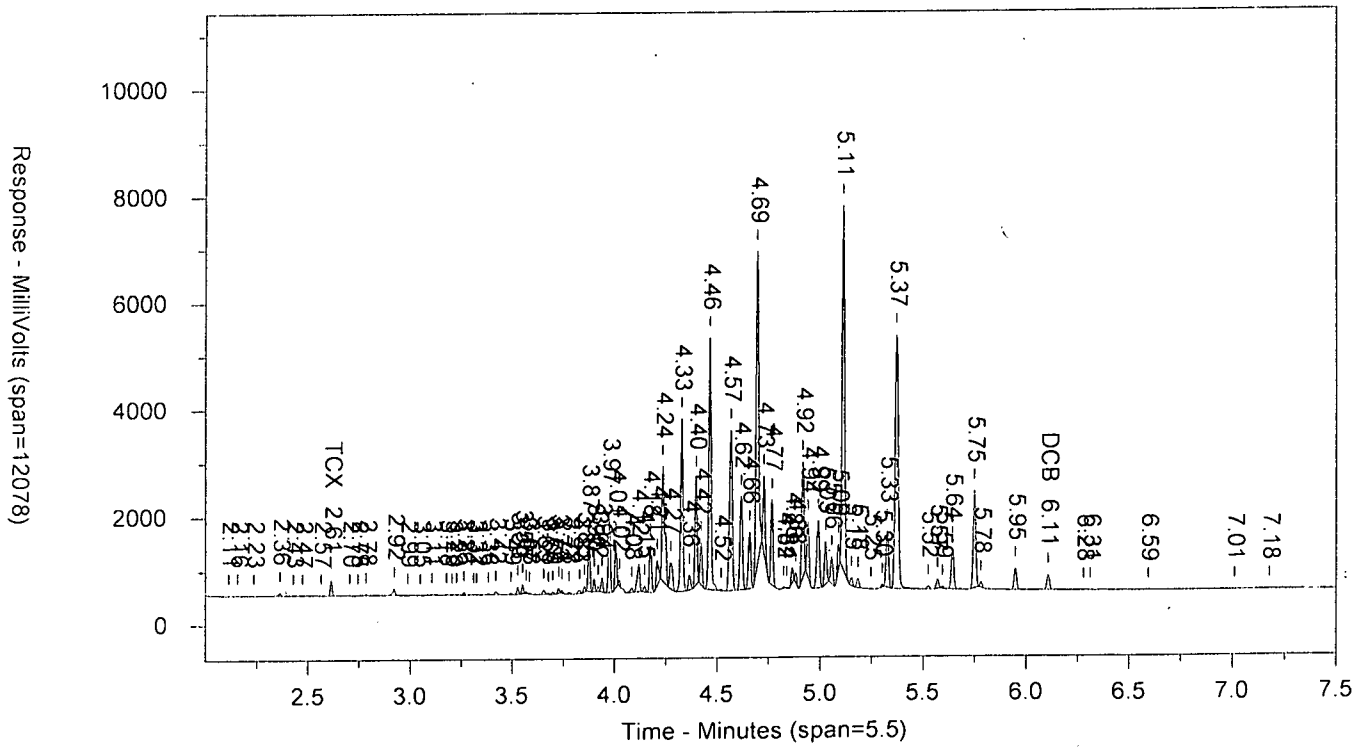

Standards Data

Polychlorinated Biphenyls (PCBs)

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137001.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 35

	Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
2	CONDITIONER	2	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
3	CONDITIONER	3	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
4	CONDITIONER	4	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	
5	IBLKX1724A	5	PIBLK	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1713699999	10736
6	EVALX1624B	6	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
7	AR1611724A	7	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	1	1713699999	10736
8	AR1621724A	8	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	2	1713699999	10736
9	AR1631724A	9	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	3	1713699999	10736
10	AR1641724A	10	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	4	1713699999	10736
11	AR1651724A	11	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	5	1713699999	10736
12	AR4811724A	12	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
13	AR4821724A	13	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
14	AR4831724A	14	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
15	AR4841724A	15	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
16	AR4851724A	16	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
17	AR5411724A	17	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
18	AR5421724A	18	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
19	AR5431724A	19	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
20	AR5441724A	20	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
21	AR5451724A	21	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
22	AR6231724A	22	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
23	AR6831724A	23	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
24	AR2131724A	24	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
25	AR3231724A	25	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
26	AR4231724A	26	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
27	AR16XX1724A	27	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
28	MD16X1724A	28	ICAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
29	IC16X1724A	29	CCAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
30	IC48X1724A	30	CCAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
31	IC54X1724A	31	CCAL	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
32	BLANKA 5/16/17 RI A	32	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30	10	1	0	171350035A	
33	LOD 5/16/17 RI A	33	CRDL	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30	10	1	0	171350035A	
34	AR1631724A	34	CCAL	BR	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1713699999	10736
35	IBLKX1724A	35	PIBLK	UF	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1713699999	10736

2324 5/17/17

Set-up by: 2855 Date: 17May17

5/17/2017

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137009.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 55

Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1 CONDITIONER	1	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	
2 CONDITIONER	2	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	
3 CONDITIONER	3	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	
4 CONDITIONER	4	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	
5 AR1631724A	5	CCAL	FR	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	10736
6 IBLKX1724A	6	PIBLK	AG	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714599999	10736
7 9009627 RI CAF DF5	7	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	246	10	1	0	171440004A	06030
8 9009627 RI CAF DF10	8	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	246	20	1	0	171440004A	06030
9 BLANKA 5/25/17 ACF	9	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30	10	1	0	171450003A	10885
10 LCSA 5/25/17 ACF	10	LCS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30	10	1	0	171450003A	10885
11 AR1631724A	11	CCAL	FS	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	10736
12 IBLKX1724A	12	PIBLK	AH	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714599999	10736
13 9008951 RI ACF	13	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.39	10	1	0	171450003A	10885
14 9008952 RI ACF	14	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.29	10	1	0	171450003A	10885
15 9008953 RI ACF	15	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.15	10	1	0	171450003A	10885
16 9008954 RI ACF	16	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.38	10	1	0	171450003A	10885
17 9008967 RI ACF	17	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.13	10	1	0	171450003A	10885
18 9008968MSACF	18	MS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.5	10	1	0	171450003A	10885
19 9008969MSDACF	19	MSD	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.09	10	1	0	171450003A	10885
20 9008971 RI ACF	20	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.08	10	1	0	171450003A	10885
21 9008972 RI ACF	21	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.26	10	1	0	171450003A	10885
22 9008973 RI ACF	22	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.37	10	1	0	171450003A	10885
23 9008974 RI ACF	23	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	30.35	10	1	0	171450003A	10885
24 BLANKA 5/25/17 ACF	24	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171440031A	10225
25 LCSA 5/25/17 ACF	25	LCS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171440031A	10225
26 9004840ACF DF50	26	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.13	500	1	0	171440031A	10225
27 9004841ACF DF50	27	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.33	500	1	0	171440031A	10225
28 9004842MSACF DF50	28	MS	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.16	500	1	0	171440031A	10225
29 9004843MSDACF DF50	29	MSD	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.43	500	1	0	171440031A	10225
30 9004844ACF DF50	30	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.09	500	1	0	171440031A	10225
31 9004845ACF DF100	31	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.07	1000	1	0	171440031A	10225
32 9004846ACF DF100	32	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.26	1000	1	0	171440031A	10225
33 AR1631724A	33	CCAL	FT	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	10736
34 IBLKX1724A	34	PIBLK	AI	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714599999	10736
35 9004847ACF DF100	35	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.07	1000	1	0	171440031A	10225
36 9004848ACF DF200	36	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.01	2000	1	0	171440031A	10225
37 9004849ACF DF200	37	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.07	2000	1	0	171440031A	10225
38 9004850ACF DF500	38	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.03	5000	1	0	171440031A	10225
39 9004850ACF DF1000	39	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.03	10000	1	0	171440031A	10225
40 9004851ACF DF50	40	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.37	500	1	0	171440031A	10225
41 9004852ACF DF50	41	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.14	500	1	0	171440031A	10225
42 9004853ACF DF100	42	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.04	1000	1	0	171440031A	10225
43 9004854ACF DF100	43	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.29	1000	1	0	171440031A	10225
44 9004855ACF DF100	44	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.12	1000	1	0	171440031A	10225
45 9004855ACF DF200	45	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.12	2000	1	0	171440031A	10225
46 9004856ACF DF200	46	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.16	2000	1	0	171440031A	10225
47 9004857ACF DF100	47	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.36	1000	1	0	171440031A	10225
48 9004858ACF DF200	48	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.35	2000	1	0	171440031A	10225
49 9004859ACF DF50	49	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.17	500	1	0	171440031A	10225
50 9004860ACF DF500	50	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.25	5000	1	0	171440031A	10225

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137009.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 55

Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51 9004860ACF DF1000	51	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.25	10000	1	0	171440031A	10225
52 9004861ACF DF200	52	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	2000	1	0	171440031A	10225
53 9004861ACF DF500	53	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	5000	1	0	171440031A	10225
54 AR1631724A	54	CCAL	FU	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714599999	10736
55 IBLKX1724A	55	PIBLK	AJ	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714599999	10736

1566 5/26/17

Set-up by: 2853 Date: 26 May 17

5/26/2017

Eurofins Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137010.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 54

Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1 CONDITIONER	1	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	
2 CONDITIONER	2	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	
3 CONDITIONER	3	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	
4 CONDITIONER	4	MISC	AA	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	
5 AR1631724A	5	CCAL	FV	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	10736
6 IBLKX1724A	6	PIBLK	AK	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714799999	10736
7 9001139ACF DF5	7	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.34	50	1	0	171440014A	10225
8 9001139ACF DF10	8	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.34	100	1	0	171440014A	10225
9 9001140 RI ACF	9	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	10	1	0	171440014A	10225
10 9001140ACF DF5	10	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	50	1	0	171440014A	10225
11 9001143ACF DF5	11	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	50	1	0	171440014A	10225
12 9001143ACF DF10	12	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	100	1	0	171440014A	10225
13 9004830ACF DF5	13	T	AF	EPT-24\ACTIVE\CP20\20PCBS.MET	10.02	50	1	0	171440024A	10225
14 9004830ACF DF10	14	T	AG	EPT-24\ACTIVE\CP20\20PCBS.MET	10.02	100	1	0	171440024A	10225
15 9008953ACF DF5	15	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	30.15	50	1	0	171450003A	10885
16 9008954ACF DF5	16	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	30.38	50	1	0	171450003A	10885
17 9004851ACF DF5	17	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.37	50	1	0	171440031A	10225
18 9004851ACF DF10	18	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.37	100	1	0	171440031A	10225
19 9004856ACF DF20	19	T	AE	EPT-24\ACTIVE\CP20\20PCBS.MET	10.16	200	1	0	171440031A	10225
20 9004856ACF DF50	20	T	AF	EPT-24\ACTIVE\CP20\20PCBS.MET	10.16	500	1	0	171440031A	10225
21 BLANKA 5/26/17 ACF	21	BLK	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171450027A	10225
22 LCSA 5/26/17 ACF	22	LCS	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10	10	1	0	171450027A	10225
23 9004862 RI ACF	23	T	AB	EPT-24\ACTIVE\CP20\20PCBS.MET	10.33	10	1	0	171450027A	10225
24 9004862ACF DF5	24	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.33	50	1	0	171450027A	10225
25 9004863ACF DF20	25	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.13	200	1	0	171450027A	10225
26 9004864ACF DF100	26	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.29	1000	1	0	171450027A	10225
27 AR1631724A	27	CCAL	FW	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	10736
28 IBLKX1724A	28	PIBLK	AL	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714799999	10736
29 9004864ACF DF200	29	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.29	2000	1	0	171450027A	10225
30 9004865ACF DF100	30	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.18	1000	1	0	171450027A	10225
31 9004866ACF DF5	31	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.25	50	1	0	171450027A	10225
32 9004867MSACF DF5	32	MS	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.43	50	1	0	171450027A	10225
33 9004868MSDACF DF5	33	MSD	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.07	50	1	0	171450027A	10225
34 9004869ACF DF500	34	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.07	5000	1	0	171450027A	10225
35 9004870ACF DF20	35	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.06	200	1	0	171450027A	10225
36 9004871ACF DF200	36	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.5	2000	1	0	171450027A	10225
37 9004872ACF DF5	37	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.05	50	1	0	171450027A	10225
38 9004873ACF DF100	38	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.35	1000	1	0	171450027A	10225
39 9004874ACF DF100	39	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.02	1000	1	0	171450027A	10225
40 9004875ACF DF20	40	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.09	200	1	0	171450027A	10225
41 9004876ACF DF50	41	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.24	500	1	0	171450027A	10225
42 9004876ACF DF100	42	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.24	1000	1	0	171450027A	10225
43 9004877ACF DF200	43	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.19	2000	1	0	171450027A	10225
44 9004878ACF DF10	44	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.37	100	1	0	171450027A	10225
45 9004879ACF DF20	45	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.06	200	1	0	171450027A	10225
46 9004880ACF DF50	46	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.21	500	1	0	171450027A	10225
47 9004881ACF DF5	47	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.11	50	1	0	171450027A	10225
48 9004882ACF DF50	48	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.46	500	1	0	171450027A	10225
49 AR1631724A	49	CCAL	FX	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	10736
50 IBLKX1724A	50	PIBLK	AM	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714799999	10736

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperfect\chromperfect-data\Dept-24\Active\CP20\20pcbs17137010.seq

Chromatography Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 54

Samplename	VP	Code	ID	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51 9004883ACF DF50	51	T	AC	EPT-24\ACTIVE\CP20\20PCBS.MET	10.25	500	1	0	171450027A	10225
52 9004883ACF DF100	52	T	AD	EPT-24\ACTIVE\CP20\20PCBS.MET	10.25	1000	1	0	171450027A	10225
53 AR1631724A	53	CCAL	FY	EPT-24\ACTIVE\CP20\20PCBS.MET	1	1	1	0	1714799999	10736
54 IBLKX1724A	54	PIBLK	AN	EPT-24\ACTIVE\CP20\20PCBS.MET	1000	10	1	0	1714799999	10736

9065
5/30/17

Set-up by: 2855 Date: 28 May 17

5/28/2017

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:17:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.005.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.097		10351	22973
2.217		8093	6890
2.309		13352	8911
2.328		2253	1169
2.377		1896	2134
2.424		3596	3683
2.549		2766	1942
2.657		1328	1140
2.723		1183	1422
2.774		48669	42841
2.827		4138	4233
2.923	TCX	2190175	1480446
3.072		1059	969
3.123		30032	19010
3.191		4185	3519
3.231		727	551
3.254		5553	3721
3.311		938	755
3.463		814	619
3.493		1861	1317
3.53		2841	2665
3.569		7805	5002
3.667		4415	3781
3.731		834	438
3.849		2370	2762
4.005		821	547
4.171		2303	1804
4.297		7604	6578
4.402		1054	2152
4.511		2441	3244
4.854		1545	1437
4.88		2806	2102
4.926		1745	1771
5.12		6653	7437
5.205		2502	3138
5.53		7474	8218
5.651		11893	11207
5.837		2172	2660
6.022		18081	17483
6.088		15325	12996
6.109		2421	1469
6.303		1330	2858
6.332		1396	1510
6.396		997	838
6.468		15878	15449
6.614	DCB	1571934	1568764
6.922		829	3156
7.077		1207	2188
7.385		4370	68581
8.378		792	1028
8.535		912	1865

LANCASTER LABORATORIES

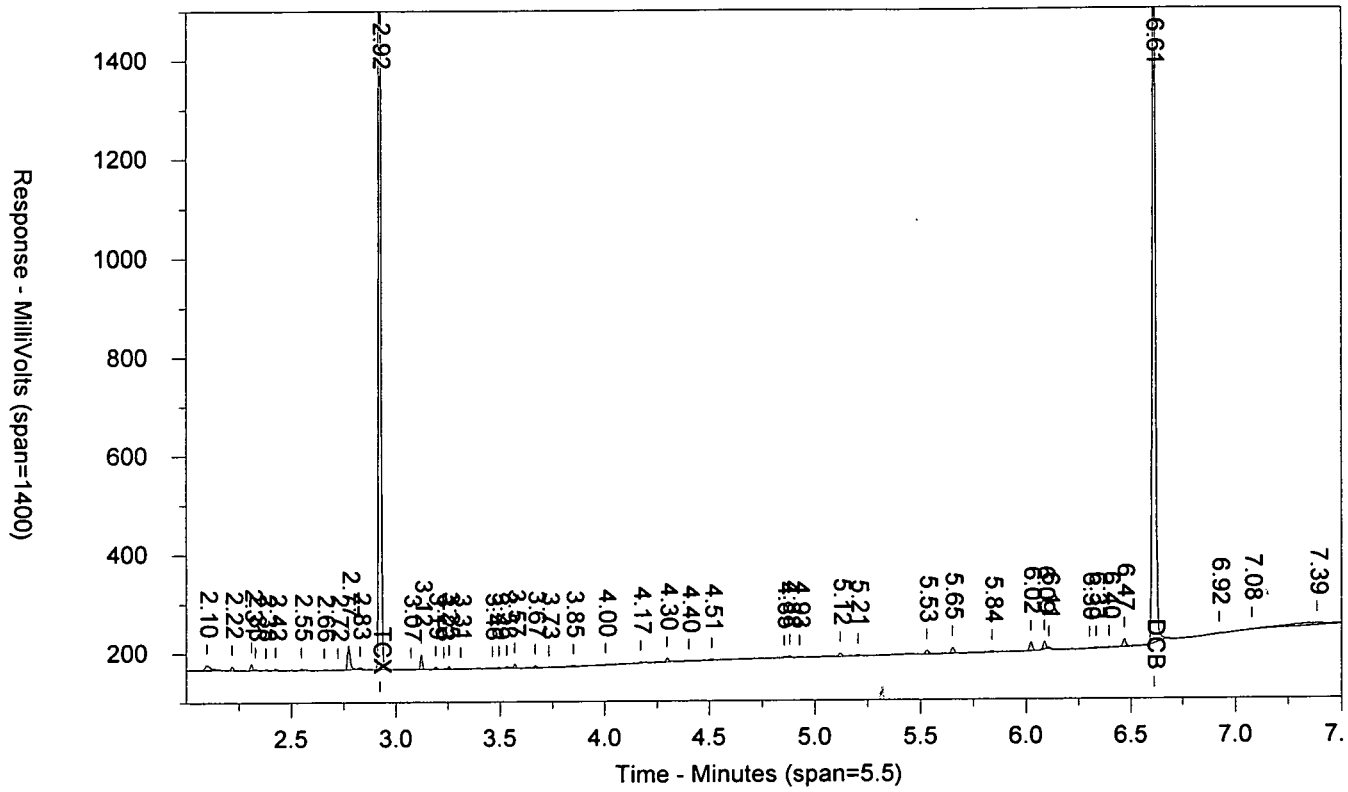
Sample Number: IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:17:46 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.005.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		5070	4170
2.053		19278	13618
2.156		10892	10102
2.24		19388	33245
2.349		3646	3408
2.411		13901	15674
2.448		3701	2407
2.477		6150	4560
2.525		8148	7097
2.547		139202	113578
2.592		4151	1944
2.615	TCX	13497890	8027551
2.779		8147	4855
2.802		4403	2868
2.833		181836	119070
2.883		7990	10144
2.949		35183	21591
2.998		4527	5089
3.087		3300	2581
3.182		16069	22543
3.256		1660	1014
3.269		4290	1899
3.292		61578	36197
3.326		38423	23874
3.356		2460	1377
3.409		11202	8310
3.451		10604	16850
3.491		4157	5511
3.529		2070	976
3.545		2462	1195
3.565		3941	2435
3.586		2824	1392
3.61		3424	3595
3.732		7963	26313
3.775		4428	3242
3.816		2233	1362
3.936		7570	5112
3.986		5570	13287
4.076		55213	47971
4.113		3083	2223
4.154		3626	2347
4.2		8866	10595
4.247		7205	14970
4.332		1798	1706
4.374		3083	4081
4.442		24374	18026
4.532		3112	5459
4.583		10186	10153
4.645		5081	2800
4.67		39069	28721
4.842		6441	15553
4.983		3162	3561
5.064		39557	42741
5.186		74021	77324

RT B	Compound B	Height B	Area B
5.371		4696	4287
5.47		1912	1241
5.528		122755	103512
5.596		123852	115541
5.645		36634	35689
5.95		103800	86911
5.979		3273	2211
6.066		2313	2369
6.11	DCB	10753940	9517686
6.517		1882	1909
6.562		9523	11580
6.906		2483	3718
7.088		1776	1009
7.148		2335	1617
7.336		908	3362
7.443		3060	8497
7.483		1997	2090
8.152		1882	3962
8.222		16479	32043

IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082

\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.005.RAW



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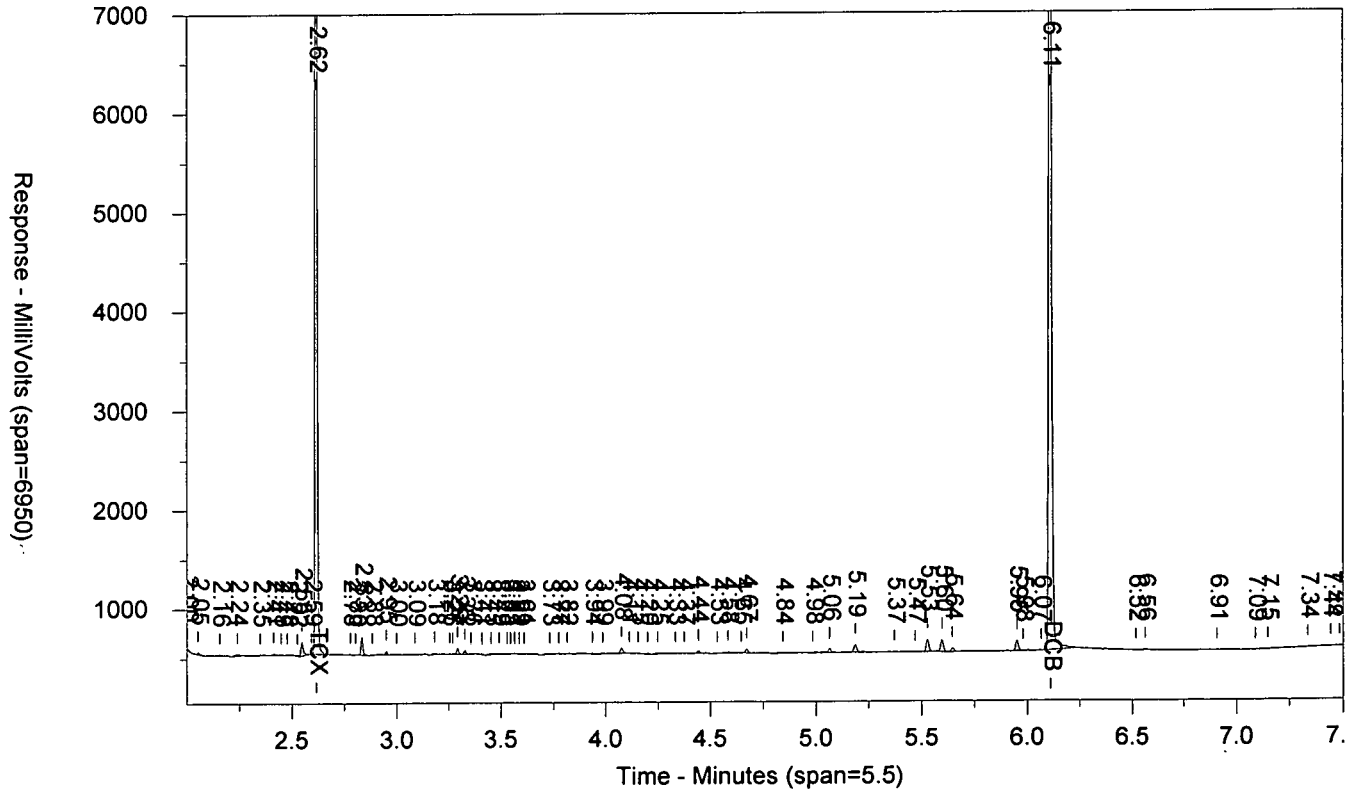


LANCASTER LABORATORIES

Sample Number: IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:17:46 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

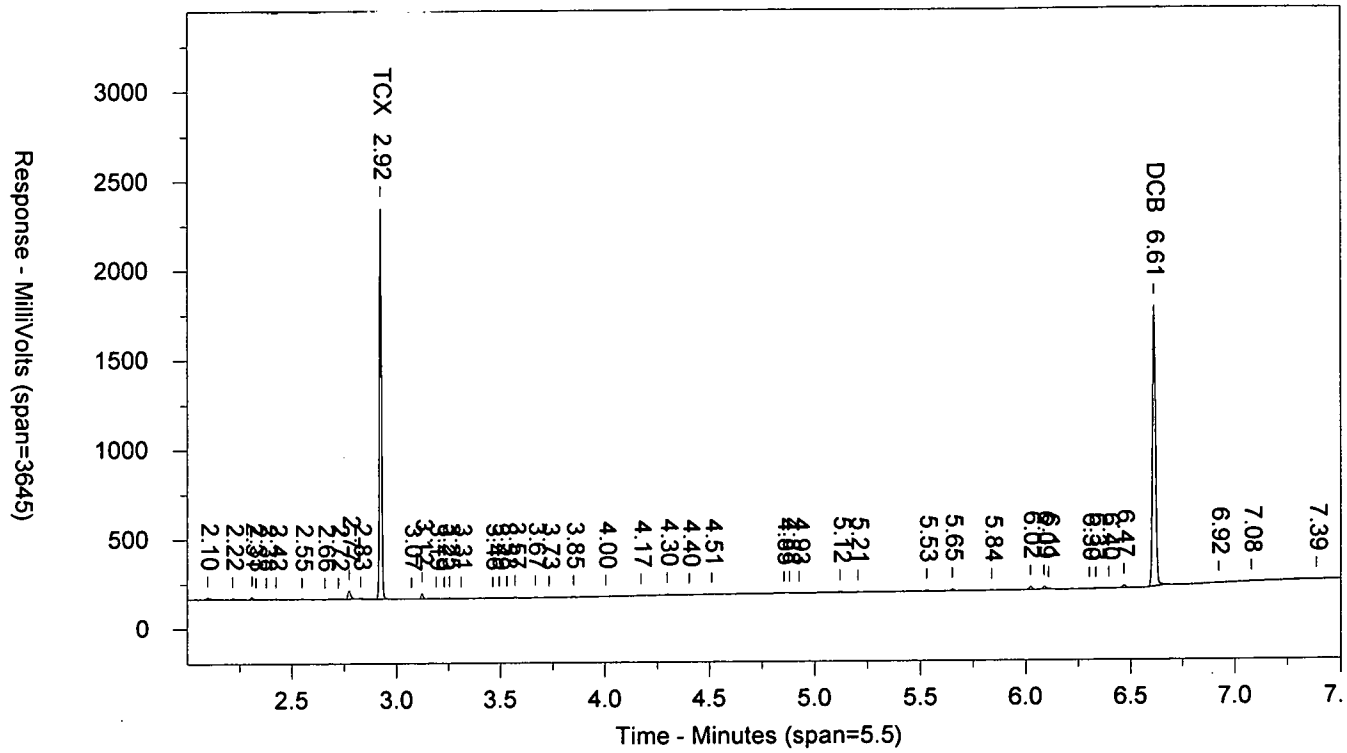
Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2190175	.193	TCX	2.615	13497890	.195	TCX
6.614	1571934	.228	DCB	6.11	10753940	.221	DCB

Files:
Area File: 20pcbs17137001.005.RAW
Area File: 20pcbs17137001B.005.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 5:26:29 PM
File Reported On: 5/18/2017 at 4:29:40 PM

IBLKX1724A AAPIBLKAA PIBLK1713699999 10736 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.005.RAW



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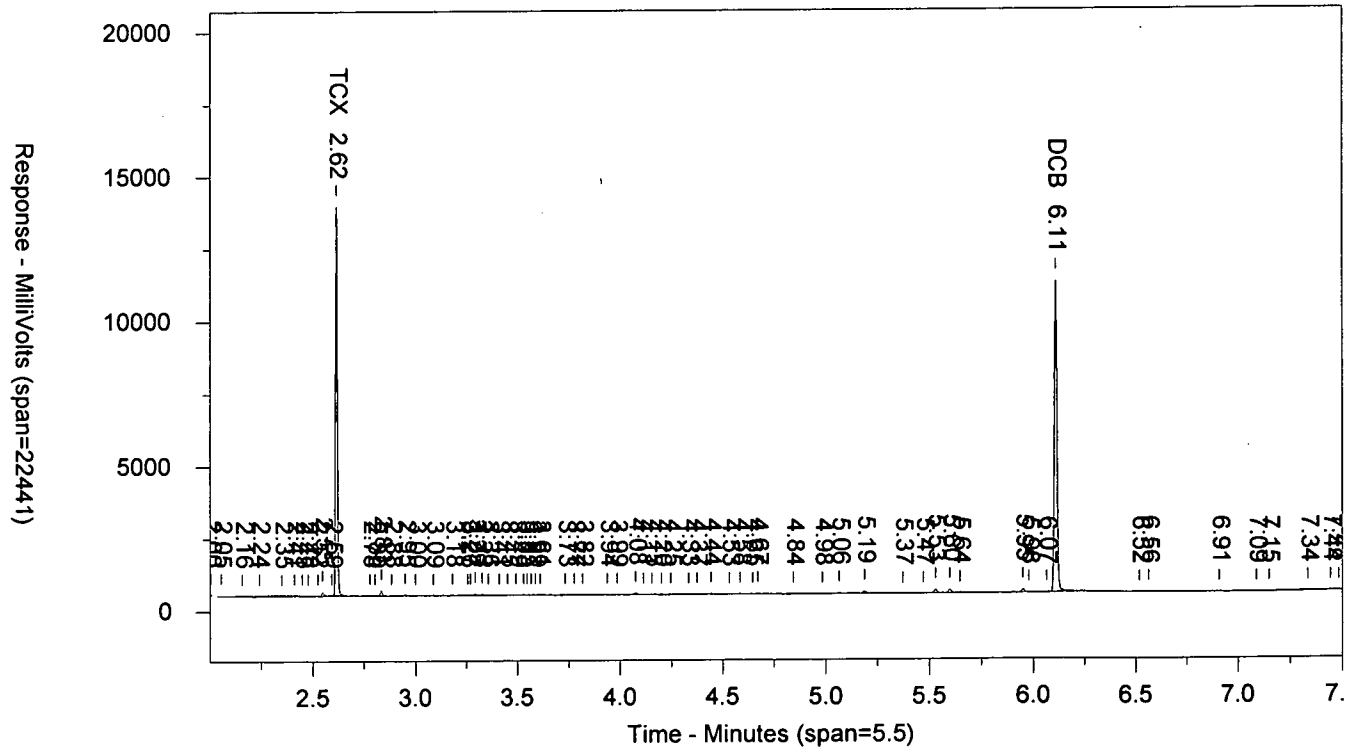

LANCASTER LABORATORIES

Sample Number: EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:29:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.006.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.008		1624	1167
2.101		7371	10860
2.217		8399	7429
2.309		18620	11978
2.338		14739	9903
2.379		2606	2611
2.423		2162	1685
2.509		29438	19036
2.55		1686	1224
2.654		1670	2220
2.773		35235	30417
2.826		1972	2066
2.923	TCX	2460172	1623398
3.01		1632	1479
3.123		33806	21250
3.211		1725720	1092090
3.254		5711	3625
3.314		12287	8575
3.411		1402945	899740
3.442		9768	6672
3.492		5104	4391
3.534		569689	379626
3.568		5067	3080
3.666		12209	10276
3.704		44691	33344
3.734		2288	1309
3.767		2180	1485
3.813		79946	61777
3.843		5973	4931
3.874		1261	822
4.001		12899	15289
4.061		2307	1658
4.09		49517	40401
4.139		2155	1823
4.17		67525	52608
4.208		12247	7397
4.225		5406	3014
4.27		1848	1439
4.296		7128	6910
4.355		1919	1495
4.384		138315	120383
4.468		5188	4255
4.506		5755	5240
4.55		27651	22160
4.575		32043	24966
4.648		4020	4663
4.707		102957	94947
4.808		130465	119663
4.846		4414080	3876867
4.875		27356	16358
4.895		10283	6114
4.952		654121	579979
5.033		29424	39829
5.113		42736	43441

RT A	Compound A	Height A	Area A
5.152		6443	4881
5.187		5836710	5297173
5.271		24660	25711
5.412		187087	196560
5.49		2880	2241
5.552		6439295	6244735
5.613		60706	60886
5.646		168866	152231
6.021		23261	23179
6.087		20904	18362
6.199		626	1637
6.467		16456	16731
6.612	DCB	1519815	1611921
6.73		786	616
6.92		1334	5813
7.072		1133	3469
7.239		772	6425
7.924		680	1322
8.516		847	1017
8.679		4882	6584

LANCASTER LABORATORIES

Sample Number: EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:29:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.006.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		14482	11251
2.054		22745	20859
2.12		4385	8263
2.154		121521	73021
2.186		4436	2339
2.204		8667	4053
2.24		20163	23511
2.268		4725	5305
2.322		194490	112481
2.369		6264	5355
2.396		1729	834
2.411		7627	6280
2.478		7873	10620
2.522		6489	7195
2.547		105282	86294
2.616	TCX	14968390	8787316
2.704		9697	5007
2.718		5603	2228
2.779		8495	5483
2.803		4948	4411
2.833		207107	126873
2.89		10312	15863
2.961		10984870	6007818
3.059		3357	2026
3.079		72492	44904
3.116		67078	42944
3.146		7567	3557
3.17		9248478	5090297
3.244		9563	7302
3.267		32281	20797
3.292		41291	25708
3.326		90391	52125
3.35		3801724	2184023
3.374		4366	5309
3.41		32735	20812
3.435		30054	16514
3.452		36835	19002
3.473		715957	482484
3.505		37058	21115
3.548		36403	21279
3.585		9194	34912
3.671		24171	37074
3.713		17698	21822
3.764		423272	233629
3.779		226943	108386
3.812		11252	6099
3.84		108947	71115
3.861		70008	42812
3.887		19680	27531
3.937		8253	4736
3.955		2925	1184
3.974		12077	5987
3.994		940574	639080
4.021		11676	7618

RT B	Compound B	Height B	Area B
4.072		73094	65439
4.111		10405	5451
4.127		12904	6587
4.15		266808	204023
4.192		27297	24076
4.246		214695	192948
4.299		10116	10420
4.369		682745	487834
4.392		9047	4887
4.429		28209590	21447590
4.468		143269	105580
4.521		4757546	3559945
4.565		43817	42054
4.634		185888	163363
4.67		41971	26791
4.701		40345090	30605000
4.76		382204	309202
4.791		32127	20828
4.82		2814	2204
4.844		5379	2654
4.872		121340	110022
4.913		4445	3157
4.984		5839	4612
5.027		950339	835636
5.063		38994	28367
5.132		36772390	31724590
5.187		293744	245486
5.243		2909	934
5.309		1426719	1222632
5.362		36658	31012
5.451		3244	4446
5.528		165758	136380
5.596		155772	138050
5.644		41938	37196
5.9		2733	3027
5.95		119068	97353
5.981		3788	2404
6.072		2112	1528
6.11	DCB	11184720	9742197
6.46		7048	6308
6.559		6404	6016
6.792		4598	4703
6.974		1919	2643
7.149		2127	3361
7.357		4626	26426
7.436		2271	7973
8.219		16862	38949

EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082

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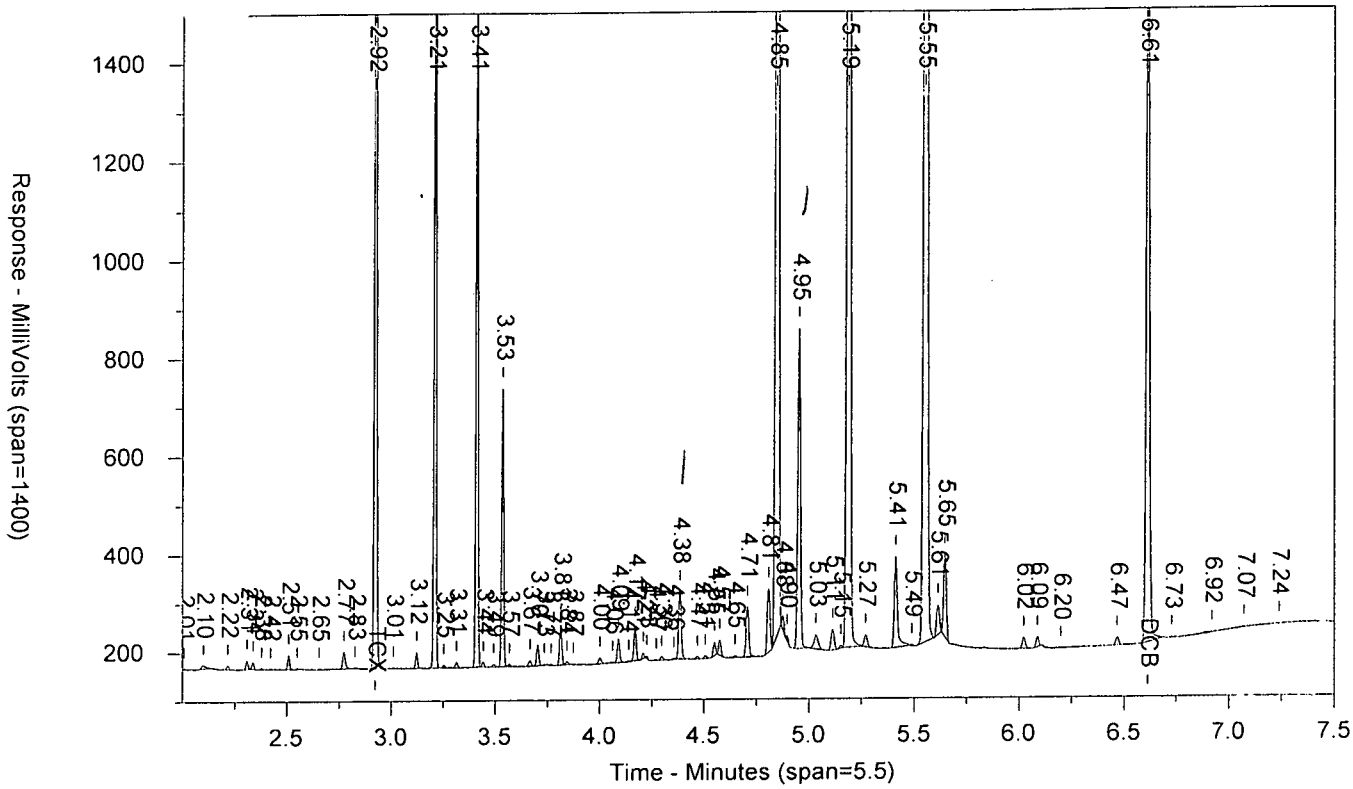

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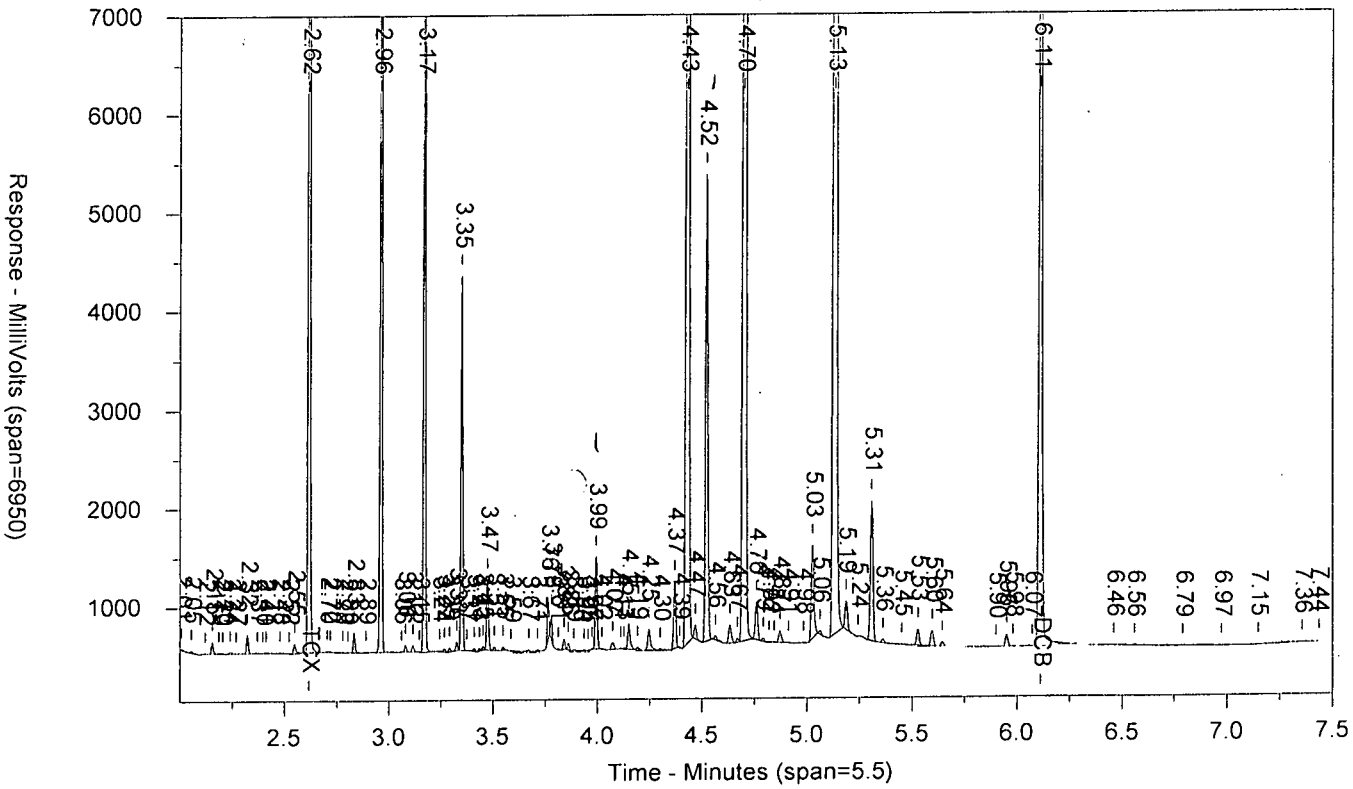

LANCASTER LABORATORIES

Sample Number: EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:29:04 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2460172	22.902	TCX	2.616	14968390	22.91	TCX
6.612	1519815	24.622	DCB	6.11	11184720	25.991	DCB

Files:
Area File: 20pcbs17137001.006.RAW
Area File: 20pcbs17137001B.006.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 5:37:49 PM
File Reported On: 5/17/2017 at 5:37:57 PM

EVALX1624B AAEVALXAA ICAL 1713699999 10736 SW-846 8082

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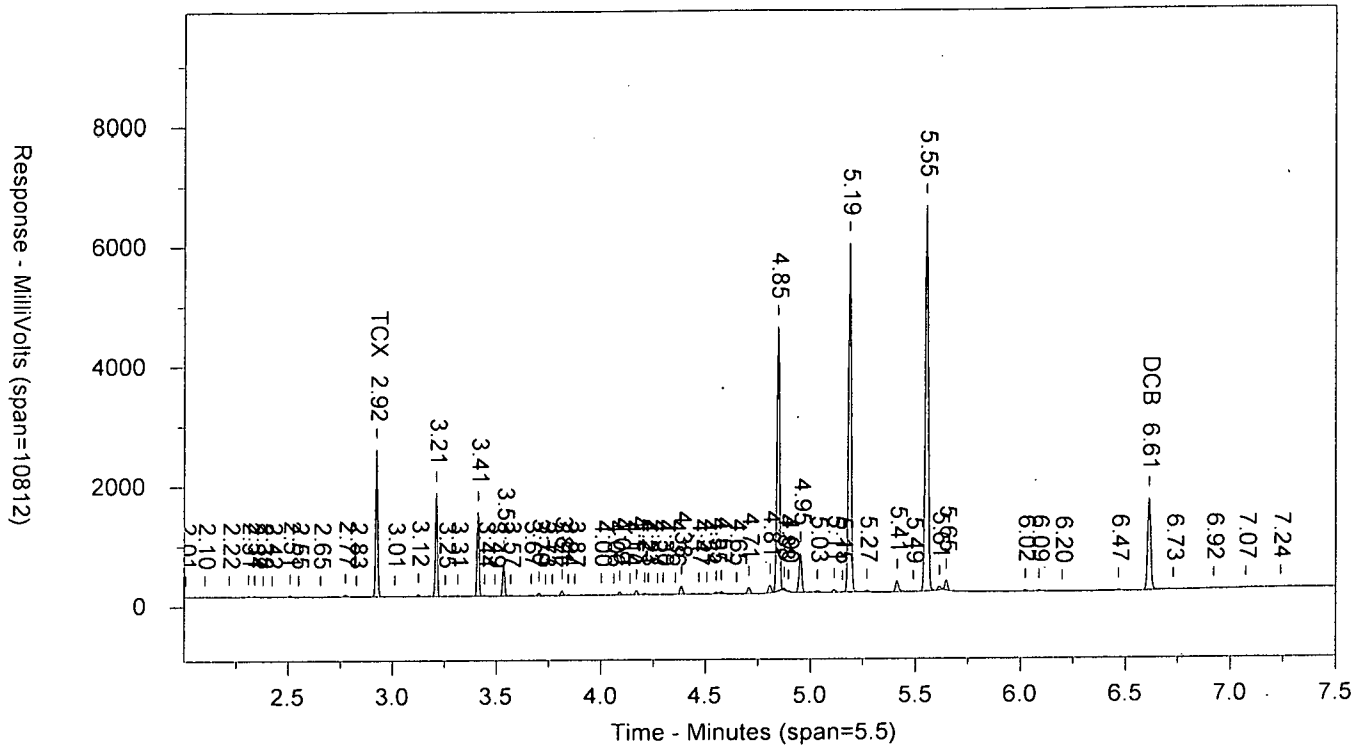

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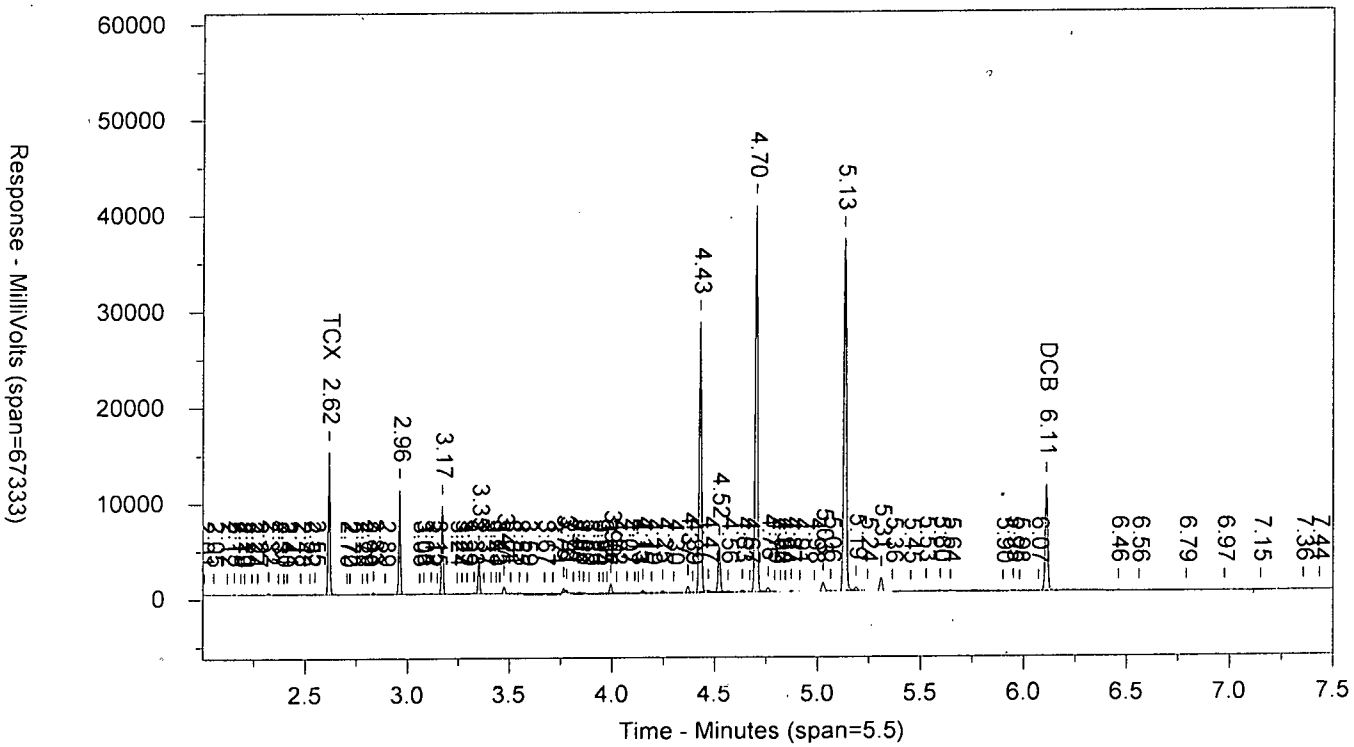

LANCASTER LABORATORIES

Sample Number: AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:40:39 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.007.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		5030	7332
2.217		1689	2019
2.309		7898	5457
2.377		1869	2223
2.423		2440	2031
2.565		2227	3976
2.658		1459	1402
2.773		34447	29199
2.827		3131	3187
2.923	TCX	439163	304512
3.075		16714	13357
3.133		24008	19362
3.181		115327	83705
3.253		1230	672
3.274		13394	9037
3.362		1146	998
3.396		120312	73269
3.413		54894	28489
3.45		12030	6956
3.465		3190	1341
3.482		9510	5697
3.512		131734	94987
3.567		1429	596
3.586		3671	2323
3.623		27306	14988
3.637		12223	5711
3.682		55197	30332
3.692		115430	58325
3.729		141614	105613
3.787		115235	85608
3.827		7567	5439
3.854		88768	63684
3.882		62468	51546
3.904		18854	9831
3.979		93099	68111
4.003		33872	21650
4.033		34114	25177
4.069		92867	94085
4.108		29651	22944
4.155		2676	1829
4.192		5421	4590
4.227		101846	76233
4.247		26119	14483
4.271		25611	17190
4.296		6925	5177
4.338		15592	12807
4.381		111757	101173
4.414		2198	1489
4.477		928	934
4.52		11323	12727
4.574		11742	7109
4.589		24690	16128
4.633		72358	61975
4.679		95806	110688

RT A	Compound A	Height A	Area A
4.717		21883	15696
4.756		221540	208499
4.847		36337	42009
4.876		2754	1718
4.904		42552	38874
4.955		256477	331310
5.005		49436	44998
5.049		117261	134361
5.091		1997	1134
5.128		26578	31367
5.164		298279	333820
5.226		143814	132823
5.27		94362	90867
5.392		167397	235268
5.449		83649	78206
5.489		46146	40727
5.531		11283	11118
5.575		58519	58142
5.63		380872	393052
5.749		1775	1800
5.837		212271	226582
5.874		22083	21698
5.89		17365	13242
6.021		8776	9135
6.085		8818	6732
6.109		38978	33425
6.266		93383	92329
6.311		6360	6439
6.402		890	770
6.467		24934	25639
6.509		1462	1468
6.613	DCB	292286	314385
7.275		1289	136094
7.708		622	608
8.081		1604	8725
8.172		2132	9365

LANCASTER LABORATORIES

Sample Number: AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:40:39 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.007.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		7218	4858
2.158		4903	6510
2.239		14231	20658
2.299		6773	4539
2.341		2055	1220
2.413		11229	15491
2.476		7270	9882
2.524		5336	4794
2.546		104260	80541
2.59		4628	2207
2.615	TCX	2640776	1593663
2.659		53145	38561
2.786		115100	73207
2.833		21446	9121
2.846		123353	64484
2.898		634997	397671
2.947		7200	4876
2.987		3160	1552
3.009		78832	48440
3.105		551272	270340
3.116		191383	77393
3.156		82462	49540
3.178		48365	29316
3.203		68726	37767
3.227		780216	514401
3.264		30774	18982
3.291		9837	4391
3.309		201489	105153
3.325		180178	90916
3.354		3752	1463
3.375		469917	215893
3.385		845000	357673
3.406		31187	12774
3.419		752133	491846
3.493		860044	540859
3.528		602607	382250
3.551		667084	370186
3.57		219151	109982
3.655		758311	496131
3.678		283141	155069
3.699		266412	157547
3.728		190487	93215
3.745		637243	377285
3.786		230188	163467
3.832		35349	29306
3.855		169352	101815
3.877		836604	553781
3.902		177422	107574
3.922		26726	12713
3.94		98699	60148
3.976		707712	487028
4.01		32404	18718
4.025		57052	35322
4.074		57954	53232

RT B	Compound B	Height B	Area B
4.12		56491	58051
4.177		184930	121434
4.22		168725	97314
4.238		189321	90550
4.252		450355	251715
4.277		284748	286570
4.329		1478677	1134179
4.376		26192	21854
4.399		165171	109883
4.423		353316	254455
4.466		1739197	1355768
4.529		3128	3975
4.568		1360754	1333148
4.622		179897	147830
4.66		404675	339873
4.697		1696137	1441283
4.729		841989	586499
4.767		590198	472707
4.841		7533	5854
4.867		198201	206944
4.918		1082249	838066
4.942		155954	101225
4.992		568330	526649
5.028		293411	236387
5.058		215665	180586
5.09		85824	54806
5.112		2307434	1918536
5.154		52429	37796
5.185		110201	87756
5.304		28246	18108
5.327		513235	422231
5.372		1525920	1657357
5.528		60252	50969
5.572		42881	32403
5.596		47967	37129
5.645		284864	253220
5.751		628226	519376
5.782		35004	25848
5.835		5229	6689
5.951		166736	149749
6.109	DCB	2056760	1891892
6.29		2464	2798
6.717		1883	2247
7.048		3303	6502
7.442		1852	24801
7.617		2187	7879
7.849		2043	3156
7.914		2219	2606
8.216		14868	25915

AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082

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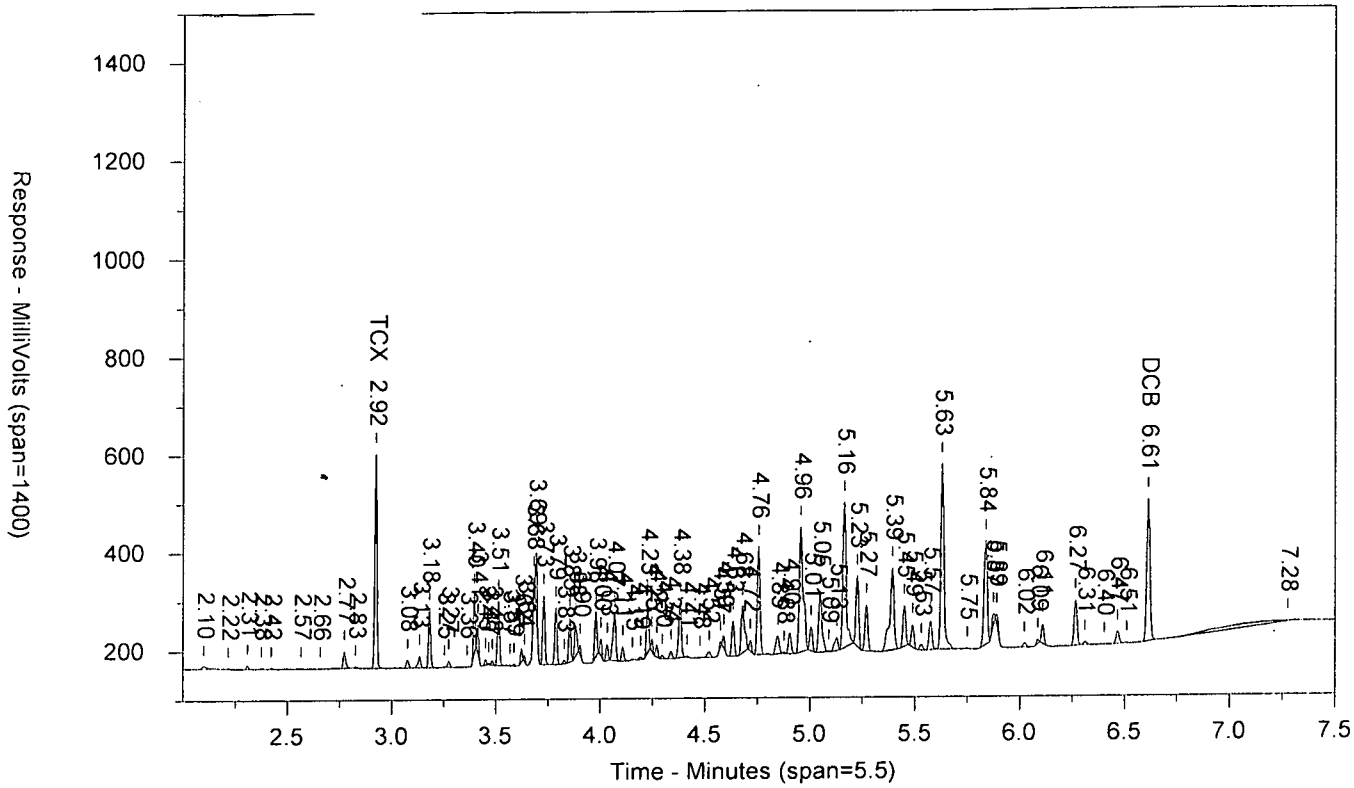

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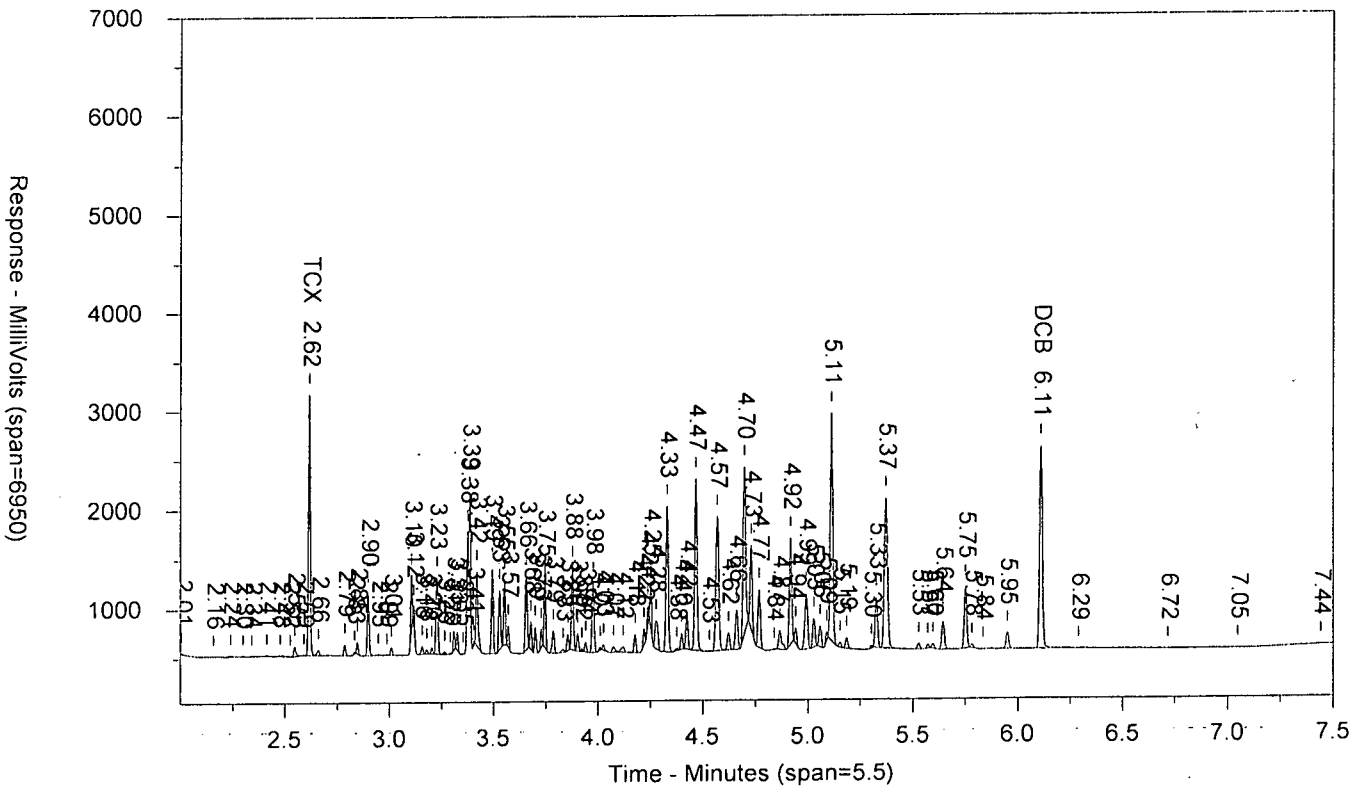

LANCASTER LABORATORIES

Sample Number: AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:40:39 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	439163	4.088	TCX	2.615	2640776	4.042	TCX
6.613	292286	4.735	DCB	6.109	2056760	4.78	DCB

Files:
Area File: 20pcbs17137001.007.RAW
Area File: 20pcbs17137001B.007.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 5:49:21 PM
File Reported On: 5/17/2017 at 5:49:32 PM

AR1611724A AAAR161AA ICAL 1713699999 10736 SW-846 8082

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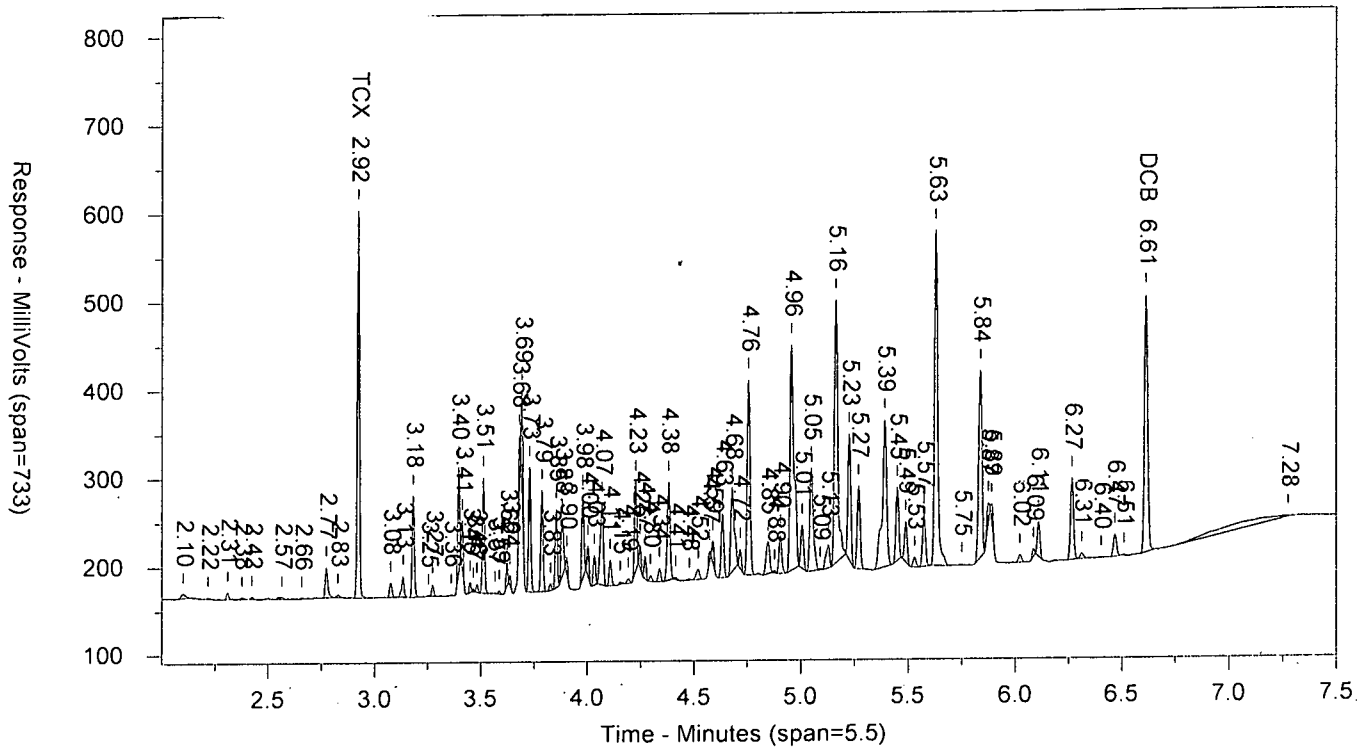

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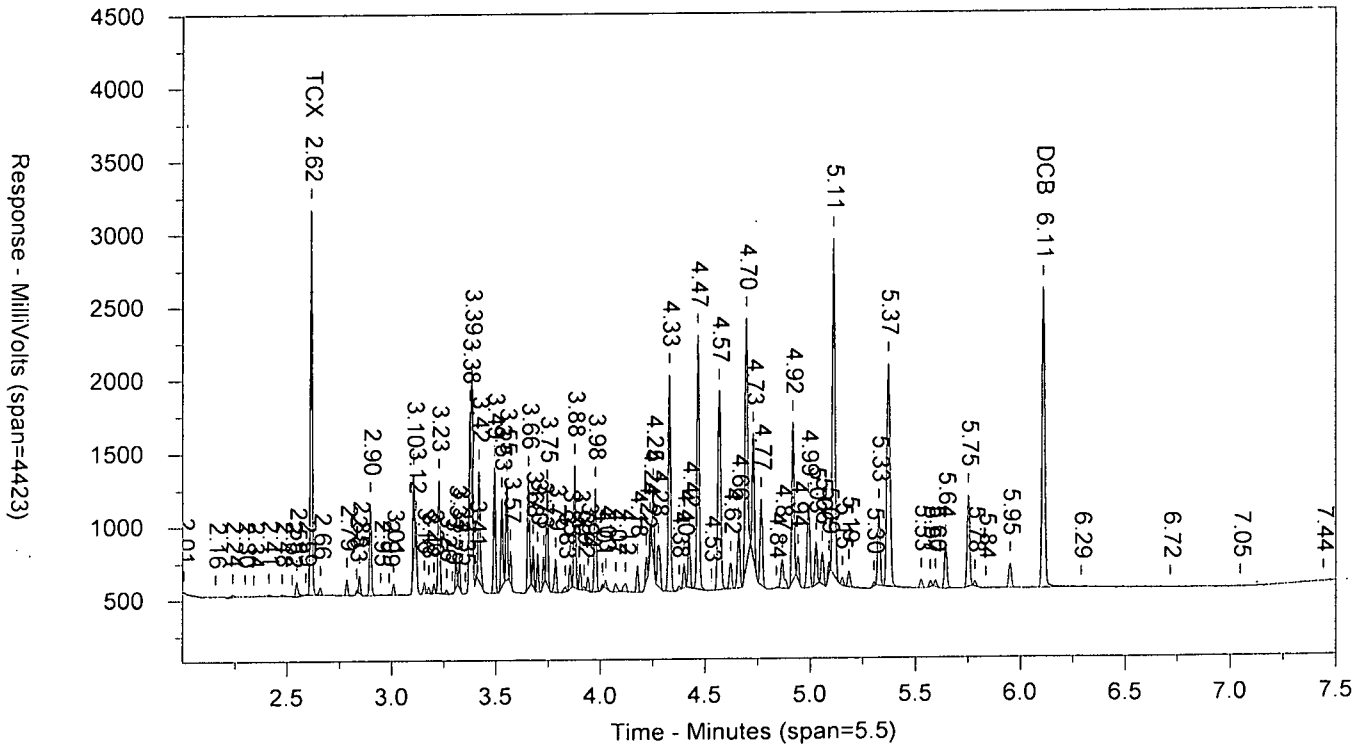

LANCASTER LABORATORIES

Sample Number: AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:51:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.008.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.097		13540	19690
2.138		3661	4018
2.217		7933	6528
2.309		11858	7535
2.328		2127	1251
2.375		2225	2434
2.424		3170	2540
2.498		1183	1693
2.548		1614	1022
2.565		1999	1321
2.658		1614	1316
2.717		948	639
2.773		47248	42470
2.827		3758	4035
2.922	TCX	2257924	1485899
3.075		34107	28402
3.132		48038	50452
3.18		214919	155457
3.252		4507	2619
3.273		26478	17507
3.314		1081	872
3.394		214700	132119
3.411		96060	51223
3.448		23977	13692
3.464		5399	2229
3.48		18819	10959
3.51		242210	178804
3.565		6869	4008
3.584		6665	3750
3.62		52003	29221
3.635		24971	11537
3.679		107198	57152
3.69		232544	118658
3.726		269286	198281
3.785		206316	165115
3.825		16812	11561
3.852		159305	118078
3.88		115749	98563
3.901		37777	19764
3.976		174917	127310
4		60309	39304
4.031		69171	49099
4.066		175291	180089
4.106		55181	45864
4.152		6911	5309
4.19		9349	7736
4.224		190195	141867
4.245		48163	27742
4.268		50265	35074
4.293		6791	4933
4.335		30070	25288
4.379		208270	190273
4.412		5250	3396
4.476		2462	1994

RT A	Compound A	Height A	Area A
4.516		25386	26547
4.571		18012	13020
4.585		43500	28556
4.632		134788	119187
4.676		185626	208360
4.715		45598	31391
4.754		413142	398207
4.798		3360	3530
4.844		74536	79270
4.875		7968	5136
4.901		77113	70877
4.954		491097	632104
5.003		94179	84822
5.047		232102	258527
5.089		3403	2105
5.125		51392	65824
5.161		557327	534061
5.184		15970	7823
5.224		278765	250609
5.267		170321	170018
5.369		18439	22776
5.388		281443	246516
5.448		158580	149215
5.488		87023	76460
5.527		27856	26524
5.573		114799	112472
5.629		700029	785779
5.835		425595	438608
5.876		31141	43202
5.888		30471	20132
6.02		30851	31202
6.084		27614	20447
6.108		68248	61829
6.265		175530	177812
6.31		11695	11514
6.465		56327	59178
6.506		1418	1004
6.61	DCB	1387708	1460917
7.365		668	136252
8.058		933	753
8.685		2743	4536

LANCASTER LABORATORIES

Sample Number: AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:51:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.008.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3798	4590
2.054		18157	13357
2.118		3534	1780
2.155		8869	10895
2.239		17605	26795
2.3		12446	8903
2.366		4473	7980
2.394		2329	1095
2.411		13287	12495
2.452		3934	2519
2.477		6695	5043
2.515		7496	10584
2.547		136660	111371
2.592		5695	2843
2.616	TCX	13579360	7959337
2.659		94645	63640
2.786		224189	144427
2.833		133608	61921
2.847		211852	105129
2.899		1178404	733797
2.949		34906	21390
3.01		156963	95408
3.105		1526135	1441358
3.156		159453	96540
3.178		88310	50262
3.203		134920	71990
3.227		1458177	962921
3.264		61647	36489
3.291		54843	26388
3.31		385166	199615
3.325		267484	129362
3.354		4696	2439
3.375		803535	377561
3.385		1807104	751168
3.405		68791	27621
3.418		1422333	916190
3.492		1688703	1027549
3.527		1175757	701174
3.551		1248626	683320
3.568		416377	209749
3.654		1437489	928733
3.676		525665	281296
3.698		492553	290087
3.726		351169	174604
3.743		1226975	706744
3.784		428500	306682
3.832		66728	56776
3.854		326824	196118
3.876		1588328	1045762
3.901		346912	205346
3.92		50747	25009
3.939		182591	111910
3.974		1345733	911713
4.009		68488	39997

RT B	Compound B	Height B	Area B
4.024		115076	71179
4.072		56873	55459
4.119		114941	124332
4.151		6770	3597
4.175		343353	234169
4.219		271781	163753
4.236		319646	168652
4.249		831264	446987
4.276		551121	542930
4.328		2851820	2156147
4.374		44627	40742
4.397		332846	214906
4.422		658816	472198
4.464		3233009	2568987
4.567		2661244	2576777
4.62		362251	291871
4.659		754585	681380
4.695		3381883	2868426
4.727		1577102	1087402
4.766		1203443	910205
4.839		8739	8224
4.865		402435	412938
4.917		2076618	1621308
4.94		294421	195443
4.99		1151881	1009952
5.026		580495	454955
5.056		433055	375356
5.088		183324	111938
5.111		4505800	3780771
5.151		110311	78250
5.184		280212	239060
5.302		54853	34467
5.326		967331	811863
5.37		3235155	3430463
5.526		219280	187370
5.571		78985	58731
5.594		206783	159267
5.644		594795	515845
5.75		1176800	1015599
5.781		71175	51781
5.898		2410	1858
5.949		405676	342310
6.062		2437	1948
6.108	DCB	9871559	8702559
6.279		5787	3577
6.56		7539	9348
6.72		1995	3171
7.043		2323	2755
7.155		1322	2619
7.266		1093	6002
7.486		3047	31201
8.017		2180	1080
8.216		15607	30653
8.675		3931	4394

AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082

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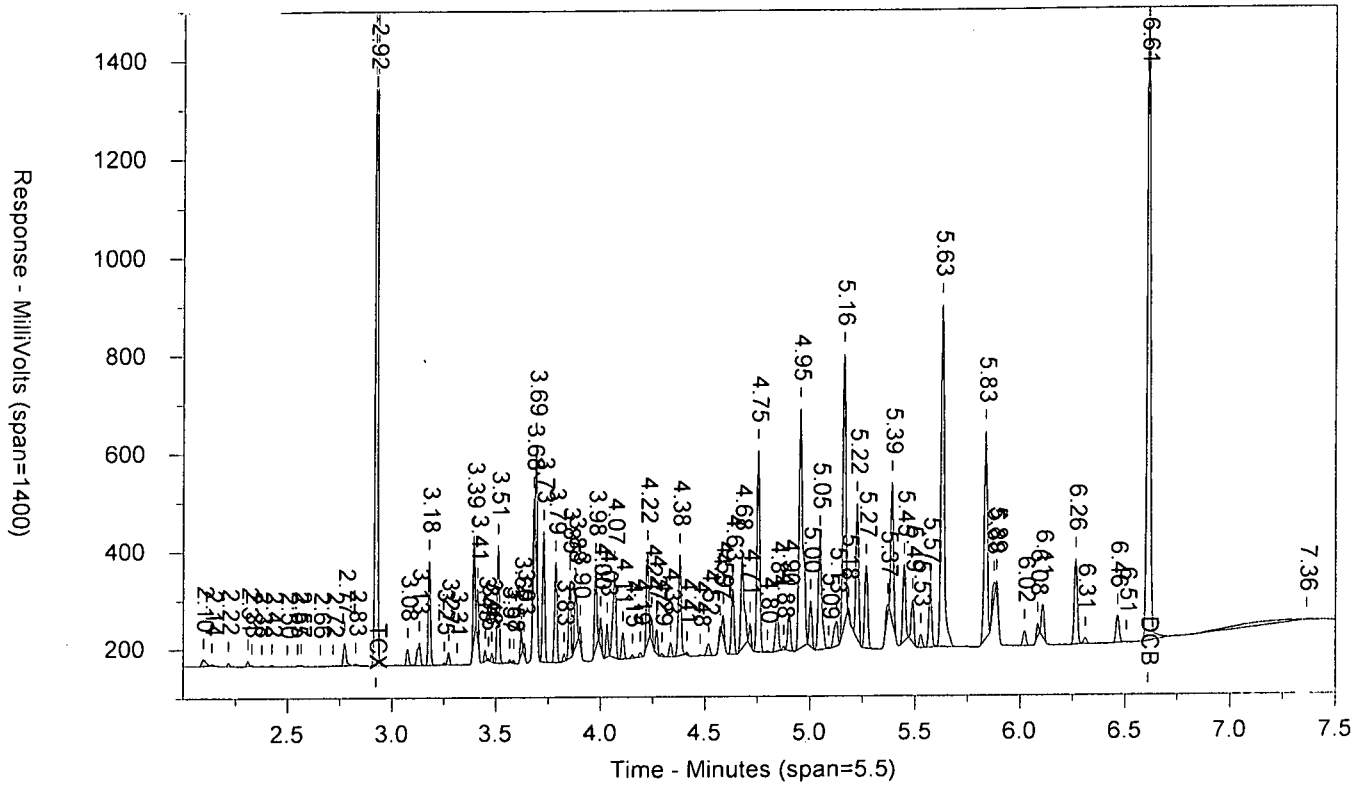

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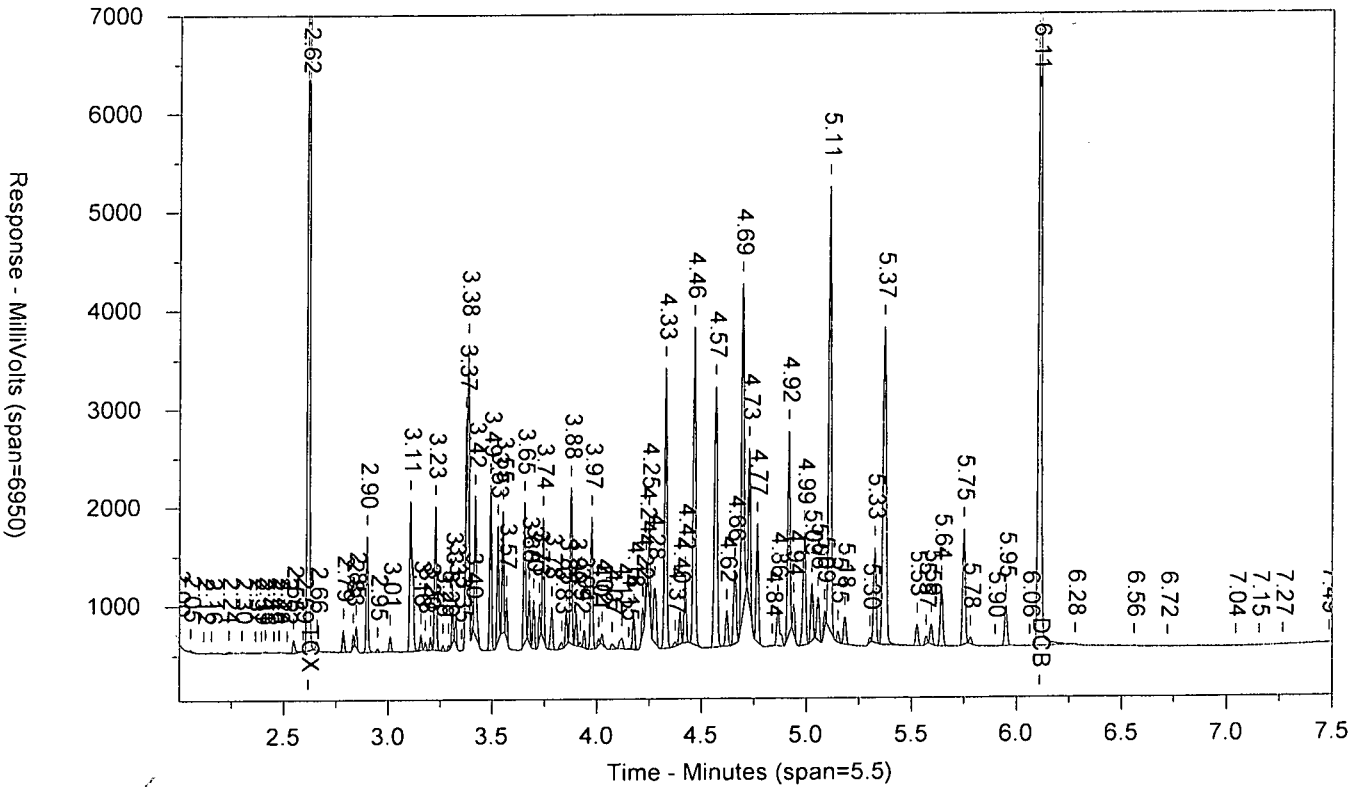

LANCASTER LABORATORIES

Sample Number: AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 5:51:57 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.922	2257924	21.064	TCX	2.616	13579360	20.624	TCX
6.61	1387708	21.947	DCB	6.108	9871559	22.242	DCB

Files:
Area File: 20pcbs17137001.008.RAW
Area File: 20pcbs17137001B.008.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:00:42 PM
File Reported On: 5/17/2017 at 6:00:56 PM

AR1621724A AAAR162AA ICAL 1713699999 10736 SW-846 8082

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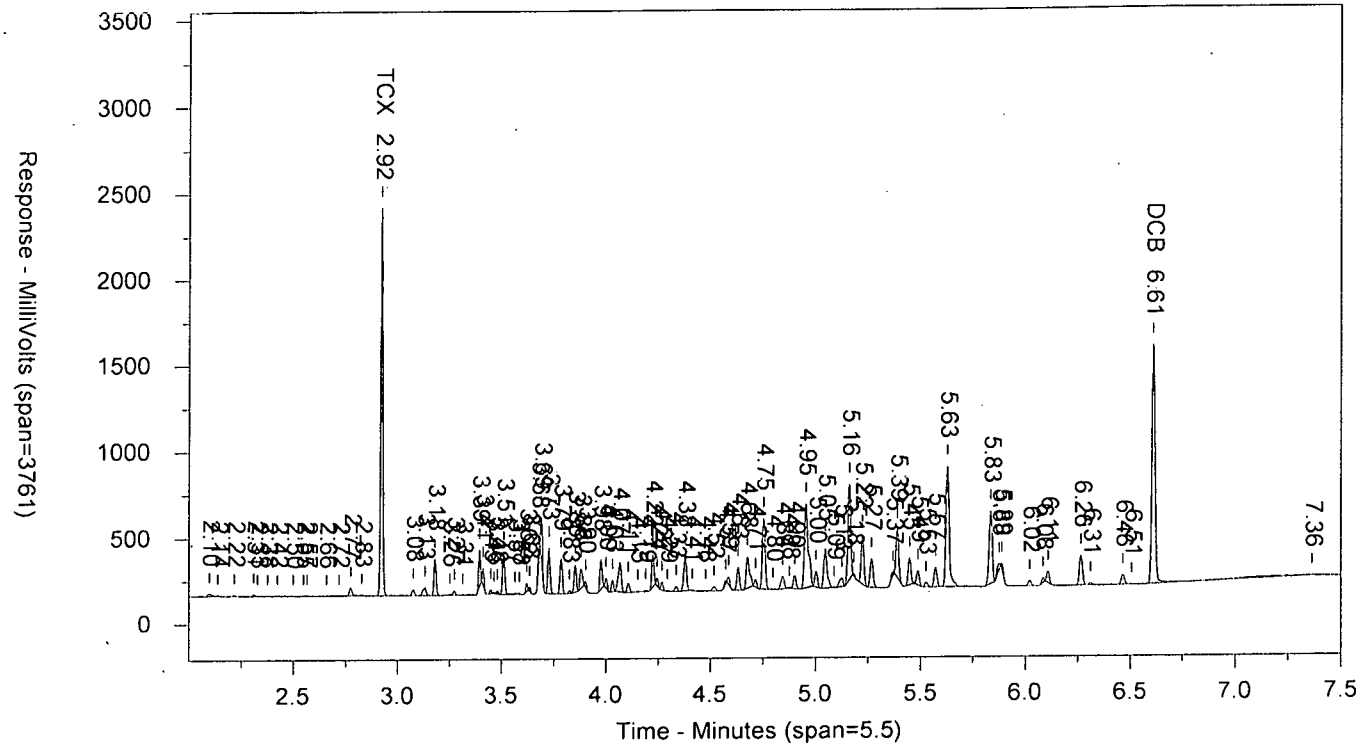

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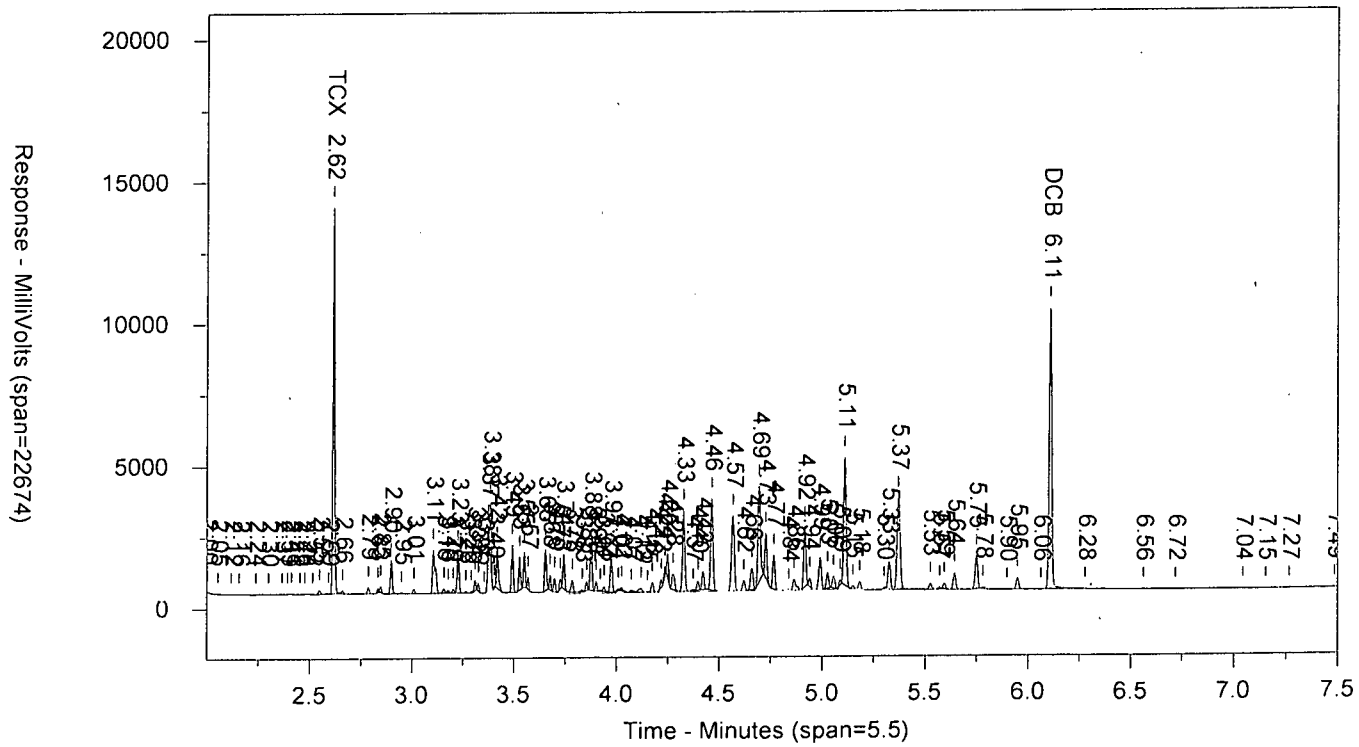

LANCASTER LABORATORIES

Sample Number: AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:03:25 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.009.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		4875	7317
2.217		16245	12457
2.309		11276	7029
2.328		5093	2902
2.377		1521	2082
2.423		2661	2288
2.549		1674	1106
2.564		3773	2525
2.659		1182	1447
2.718		1219	1045
2.773		28681	23997
2.828		2722	3390
2.923	TCX	4583477	3064338
3.025		1196	582
3.075		73350	59641
3.132		98428	101047
3.18		409975	293666
3.252		8474	4715
3.273		53227	35214
3.394		416894	248581
3.411		182117	100749
3.448		48582	28287
3.464		13994	5747
3.48		37673	21890
3.51		475744	344425
3.544		1928	987
3.565		12708	7464
3.583		14223	8551
3.62		96546	55483
3.634		44786	21714
3.678		199061	113976
3.689		463509	239758
3.726		499852	390418
3.784		419475	326892
3.824		33603	23708
3.852		309287	222721
3.879		211654	180958
3.9		63472	34960
3.975		339155	245669
4		119996	77365
4.03		131767	95672
4.066		337431	352475
4.105		111476	89933
4.151		15649	11536
4.19		18833	15730
4.224		374455	278366
4.245		95669	53011
4.268		101139	72526
4.293		4918	3038
4.335		58535	50518
4.377		389953	368998
4.412		11005	7507
4.475		4670	3804
4.515		51476	52698

RT A	Compound A	Height A	Area A
4.57		42225	27173
4.584		78892	54729
4.631		256125	229678
4.676		350079	400867
4.714		82838	60527
4.753		835899	774968
4.797		7296	7266
4.843		138850	152065
4.875		13823	9596
4.901		144153	132723
4.953		1001603	1234033
5.002		176285	158196
5.046		453871	503932
5.088		8189	4457
5.124		98318	126461
5.161		1188888	1284119
5.224		548490	484944
5.267		339671	326979
5.389		654544	878308
5.447		305070	284956
5.487		153024	143484
5.527		49534	48435
5.572		225996	214605
5.628		1515702	1559011
5.835		857403	859267
5.875		44920	67292
5.887		74557	51802
6.02		56433	57263
6.084		50165	37586
6.107		134453	114652
6.263		324873	336522
6.309		22470	23495
6.463		103574	112410
6.609	DCB	2576136	2784706
6.842		750	390
7.068		1575	1865
7.342		988	20401

LANCASTER LABORATORIES

Sample Number: AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:03:25 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.009.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		3897	3524
2.054		38641	26045
2.156		7967	7867
2.238		14661	22064
2.3		24979	16801
2.412		14230	14069
2.476		6570	11629
2.526		6316	5645
2.547		84949	53554
2.57		4387	2439
2.592		5795	3046
2.616	TCX	28348640	16358670
2.659		184034	124505
2.703		5318	4611
2.786		443408	291437
2.833		257234	121709
2.847		404769	200069
2.899		2252085	1389333
2.949		70109	40987
2.987		2428	1290
3.01		296112	184502
3.105		2928715	2761084
3.156		326360	200210
3.177		176027	101842
3.203		256586	140402
3.227		2789487	1871652
3.263		122603	70533
3.291		90911	45138
3.309		736245	387782
3.325		466481	228257
3.351		6070	2607
3.375		1515862	731964
3.384		3284824	1391391
3.404		124767	46288
3.418		2853917	1856195
3.492		3389307	2037636
3.527		2191621	1351446
3.55		2432056	1332436
3.568		792136	396971
3.653		2806160	1805006
3.676		1040262	537694
3.697		1008444	580010
3.726		657174	343394
3.743		2377297	1391466
3.783		819339	599156
3.831		139288	119077
3.853		621187	370392
3.875		3134163	2034238
3.9		660093	395958
3.92		112495	53323
3.939		365838	223504
3.974		2574628	1763888
4.008		134536	80096
4.023		219520	135911

RT B	Compound B	Height B	Area B
4.072		56677	64609
4.118		237589	266151
4.151		15363	7720
4.176		730738	518307
4.218		567891	334155
4.236		688492	338526
4.25		1687014	912099
4.275		1011242	1038088
4.327		5576325	4244671
4.374		88741	83162
4.397		622843	408701
4.421		1263757	896821
4.464		6713137	5032174
4.567		5279960	5113443
4.62		693814	582511
4.659		1431562	1307318
4.694		6964376	5648926
4.727		3025769	2132349
4.766		2238904	1774715
4.833		9867	10875
4.865		777766	812497
4.917		3999105	3220758
4.941		584072	375729
4.99		2205804	1940925
5.026		1104384	875098
5.056		851971	718656
5.088		391005	234506
5.111		9640877	7674216
5.151		196846	148733
5.184		536880	449121
5.302		106757	68150
5.326		1843407	1557479
5.371		6430639	6852072
5.527		401545	341436
5.571		169204	116038
5.595		368773	292813
5.644		1123215	984907
5.75		2290661	1941860
5.781		132742	98577
5.949		746038	648465
6.069		2896	1544
6.108	DCB	19151470	16877130
6.285		5179	5217
6.558		13420	10890
7.15		1385	2006
7.305		2352	2674
7.502		1285	11686
7.608		3102	8882
7.839		2096	2758
8.115		1160	1732
8.213		15535	28728
8.449		1784	915

AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082

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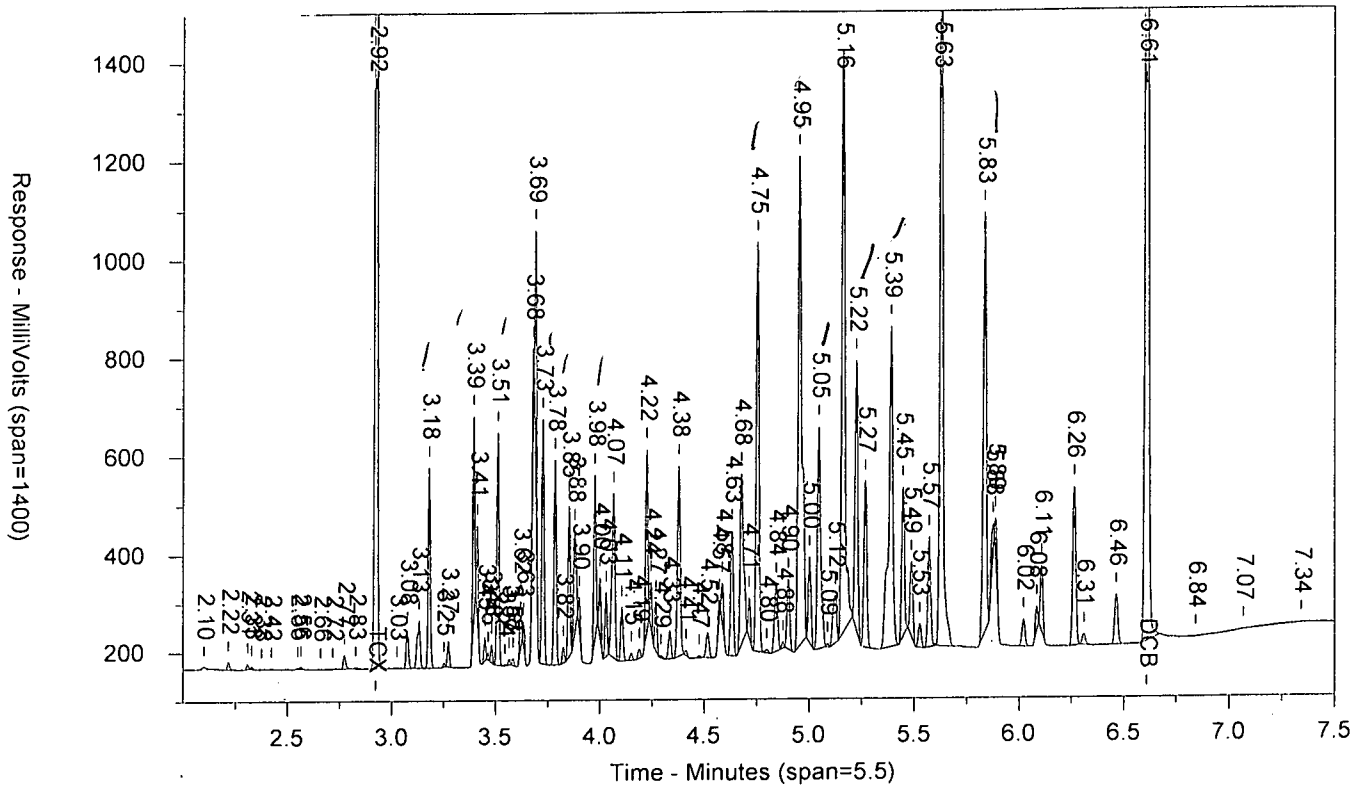

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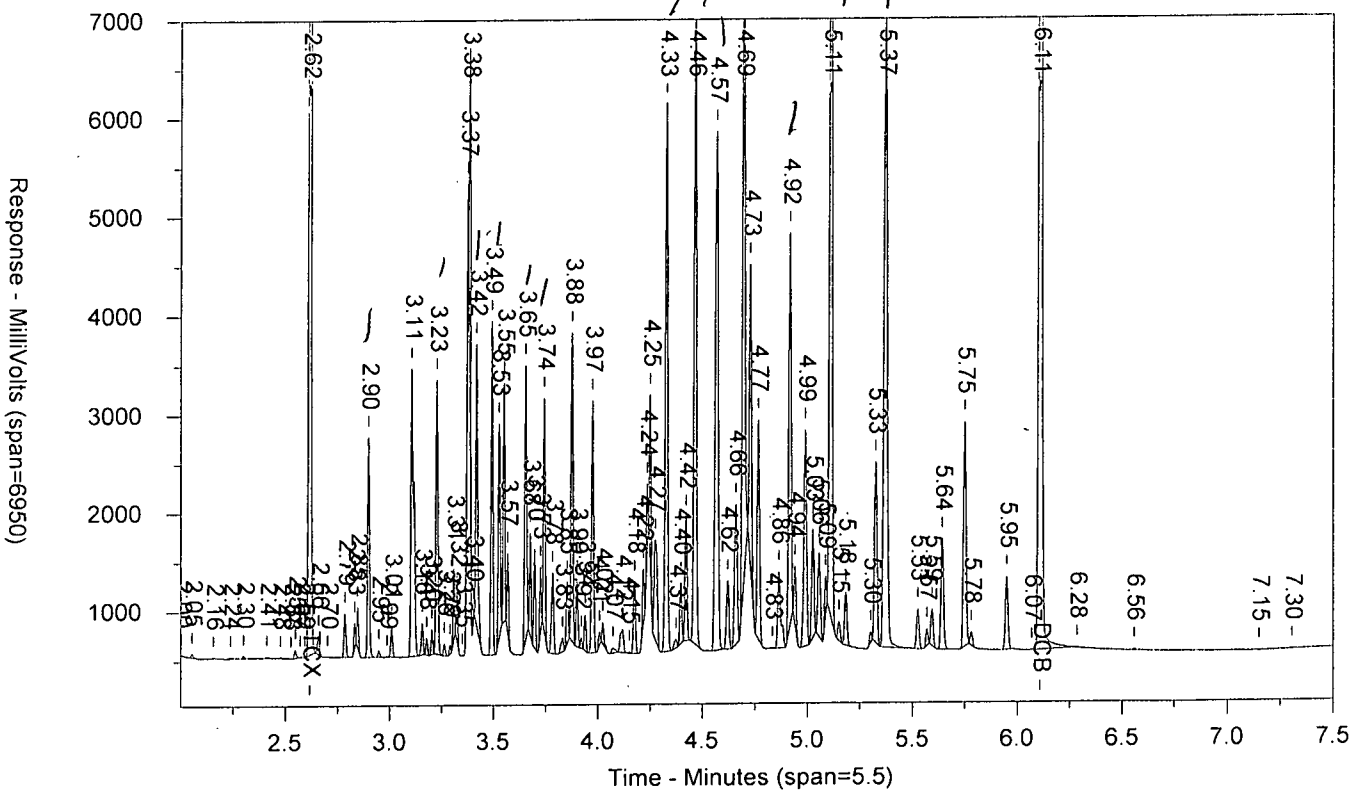

LANCASTER LABORATORIES

Sample Number: AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:03:25 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4583477	41.945	TCX	2.616	28348640	42.631	TCX
6.609	2576136	39.751	DCB	6.108	19151470	41.876	DCB

Files:
Area File: 20pcbs17137001.009.RAW
Area File: 20pcbs17137001B.009.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:12:08 PM
File Reported On: 5/17/2017 at 6:12:20 PM

AR1631724A AAAR163AA ICAL 1713699999 10736 SW-846 8082

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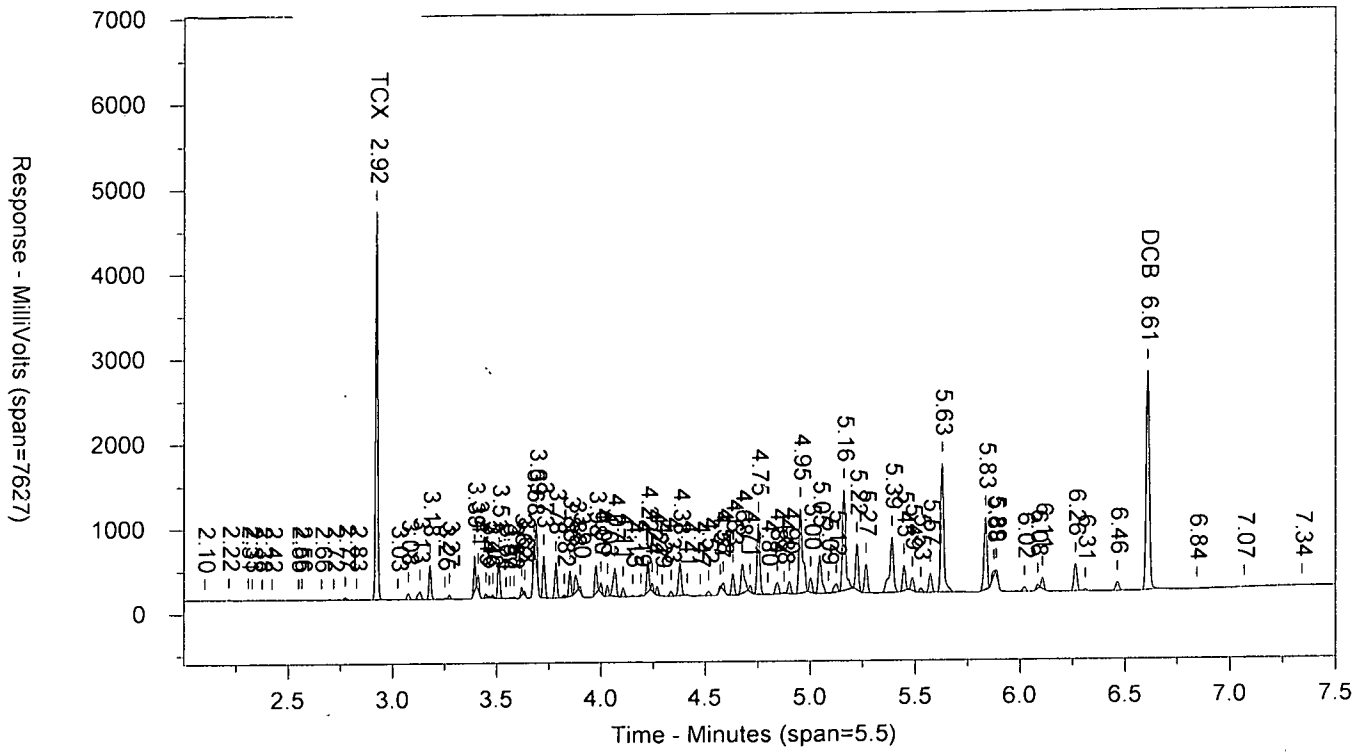

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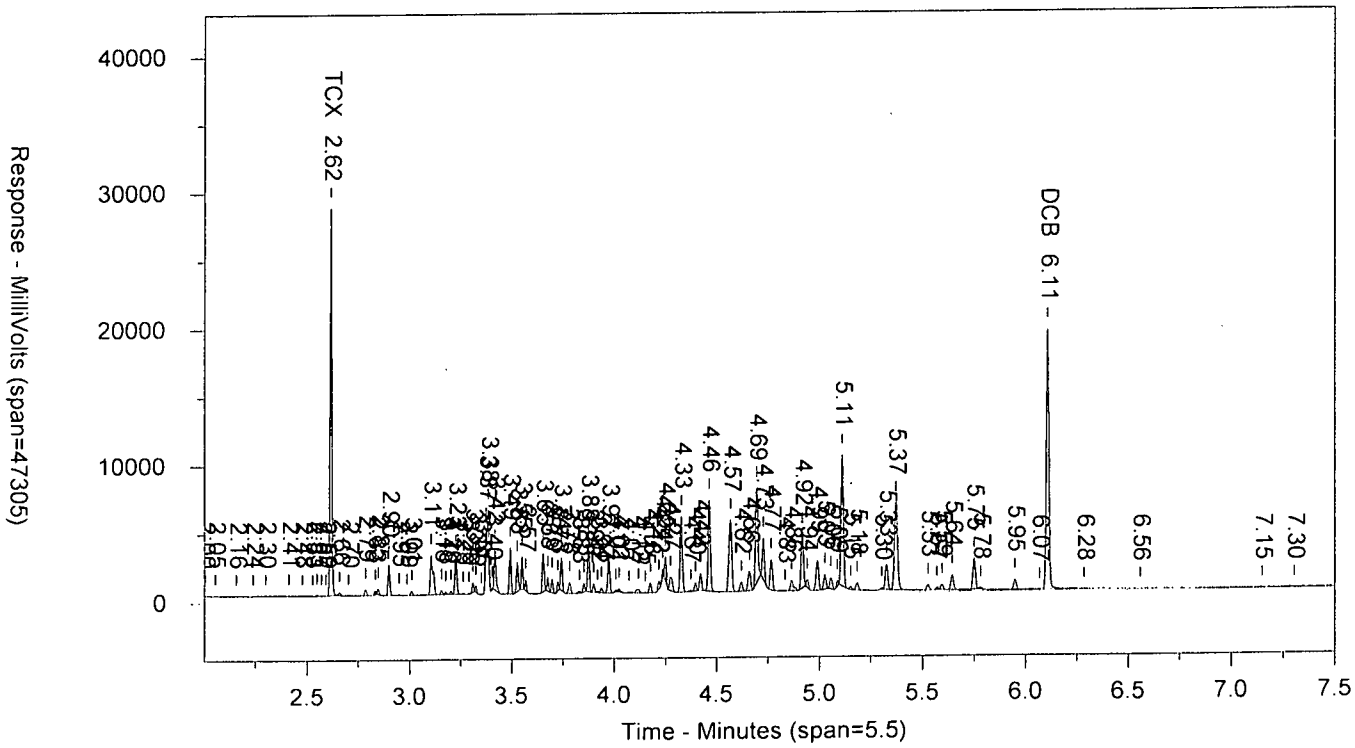

LANCASTER LABORATORIES

Sample Number: AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:14:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.010.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		7802	13107
2.217		24346	17440
2.309		8052	4818
2.328		8595	5161
2.379		1775	1919
2.423		3535	3087
2.565		11029	10334
2.658		1358	1216
2.773		36533	30853
2.827		2941	1843
2.922	TCX	7055128	4679450
3.025		1939	1141
3.075		163893	135622
3.132		210148	200775
3.18		952439	674455
3.252		12834	7025
3.274		124046	86386
3.313		3000	2002
3.395		943890	587991
3.412		448034	233176
3.449		114644	66047
3.465		32351	13095
3.482		85160	51948
3.512		1122490	820416
3.547		4887	2454
3.567		25642	14669
3.586		37270	22323
3.622		217201	129379
3.637		101521	49427
3.682		501842	278663
3.692		1109356	575944
3.729		1282676	938411
3.788		1073439	805513
3.827		79118	57255
3.854		694029	518302
3.881		521417	436537
3.903		136364	77601
3.978		812490	589443
4.002		264648	168130
4.032		314537	222325
4.069		825949	855537
4.108		257675	211390
4.154		38561	29564
4.193		44133	36051
4.227		912413	674880
4.247		239214	129598
4.27		227471	170020
4.296		3783	2102
4.337		135916	119240
4.38		980392	883554
4.415		27025	17533
4.477		10712	9237
4.518		115993	121868
4.574		96986	62564

RT A	Compound A	Height A	Area A
4.588		184017	122440
4.634		630232	551697
4.679		880026	969035
4.716		204892	144362
4.755		2071612	1885029
4.798		18261	18028
4.847		314879	352121
4.877		31315	20581
4.903		337668	311027
4.955		2473284	2993109
5.005		411025	365151
5.048		1158517	1232105
5.09		18121	10998
5.127		223776	273392
5.163		3003769	3151692
5.225		1310605	1161296
5.269		833404	777693
5.39		1615414	2123076
5.448		718344	669720
5.489		394625	336938
5.529		100825	99520
5.573		564152	513602
5.63		3847696	3842925
5.717		3442	3044
5.836		2051991	2083465
5.876		121019	191898
5.888		167505	121724
6.021		98046	102282
6.084		94235	69771
6.108		317353	273046
6.265		780653	788907
6.31		52467	51742
6.392		1124	874
6.435		777	574
6.465		221485	234485
6.61	DCB	4164353	4196003
7.067		2944	4135
7.41		899	25450
7.713		915	495
7.79		571	880
8.681		5252	7647

LANCASTER LABORATORIES

Sample Number: AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:14:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.010.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		6604	4853
2.054		60961	39670
2.155		4457	5293
2.186		2260	1114
2.239		14180	21279
2.3		57806	37883
2.341		2487	1879
2.366		3727	2653
2.394		2625	1182
2.414		9024	12230
2.476		6445	4713
2.529		8251	7306
2.547		102301	66586
2.572		9850	5114
2.59		3499	1614
2.616	TCX	43097310	24850320
2.659		424688	303108
2.786		982755	655788
2.833		355790	153679
2.847		926759	482275
2.898		5345189	3196626
2.949		106478	59094
3.009		693160	430824
3.105		4545948	2166857
3.116		1601925	606271
3.156		724982	460749
3.178		404203	222497
3.203		573349	323961
3.227		6689352	4403470
3.264		272796	160796
3.291		161744	77713
3.31		1743536	923070
3.325		1046826	520644
3.352		13014	6271
3.375		4020046	1938069
3.385		8716892	3827493
3.405		278379	96237
3.419		6626459	4316888
3.493		7991921	4994863
3.528		5304423	3232900
3.552		5948849	3217704
3.57		1842578	926547
3.656		6807312	4343167
3.678		2267341	1206461
3.699		2373030	1353083
3.728		1541311	787203
3.745		5839000	3397818
3.786		1968153	1405436
3.833		328293	274585
3.855		1483412	892370
3.878		7733864	4935572
3.902		1613905	948363
3.922		258714	122979
3.941		815488	492308

RT B	Compound B	Height B	Area B
3.976		6230428	4220763
4.01		295324	177852
4.025		490950	315937
4.073		26311	15394
4.086		35382	21282
4.12		538100	612103
4.154		27132	13486
4.178		1741648	1230903
4.22		1181687	713704
4.238		1815008	838076
4.251		3832965	2130331
4.278		2518517	2474192
4.33		14120120	10333480
4.376		206486	191754
4.399		1463509	970648
4.424		3128701	2162819
4.466		16503720	12453210
4.521		6161	4722
4.569		13622760	12604940
4.622		1646870	1379023
4.66		3559004	3115238
4.697		17158290	14326240
4.729		7775587	5277966
4.768		5789442	4315444
4.838		23917	28575
4.867		1899421	1946216
4.919		9989858	7894055
4.942		1464685	934394
4.992		5213865	4656452
5.028		2705064	2079418
5.058		1993598	1678350
5.089		1021043	597076
5.112		23558250	19036000
5.153		485896	365722
5.186		1149591	935103
5.261		6680	5206
5.304		241494	156225
5.327		4488744	3719275
5.372		14912590	16700750
5.471		5721	2987
5.528		713455	620771
5.572		388567	283385
5.596		650104	500659
5.644		2643137	2269549
5.751		5771206	4665465
5.782		302025	223685
5.902		5584	3756
5.95		1604101	1361531
6.001		3520	1874
6.068		3994	2370
6.109	DCB	29174170	25164350
6.285		15531	27649
6.558		20982	18648
6.628		2864	6574
7.128		2185	2279
7.326		1668	5555
7.47		3674	15011
7.842		3070	4425
8.046		1803	2113
8.216		14231	23577
8.325		1324	2270
8.625		1642	3057

AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082

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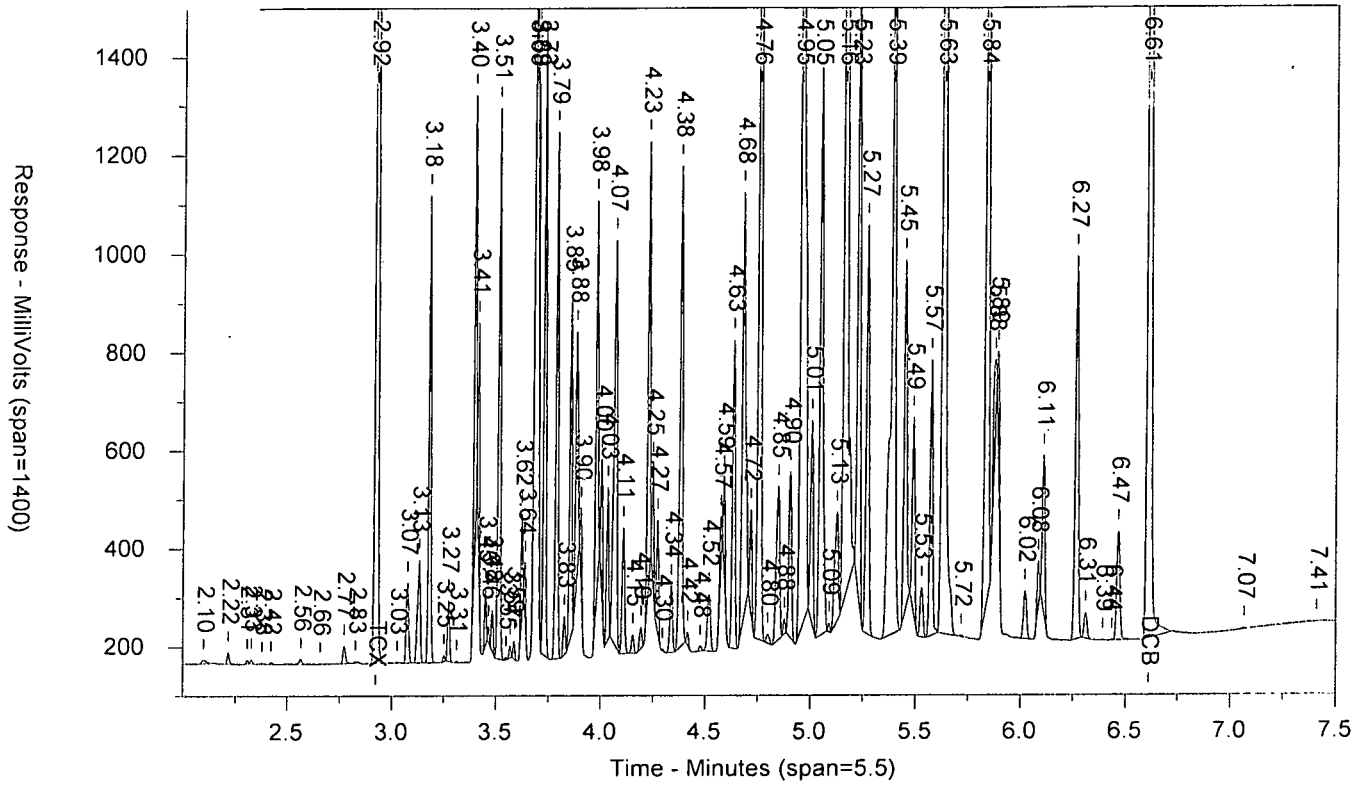

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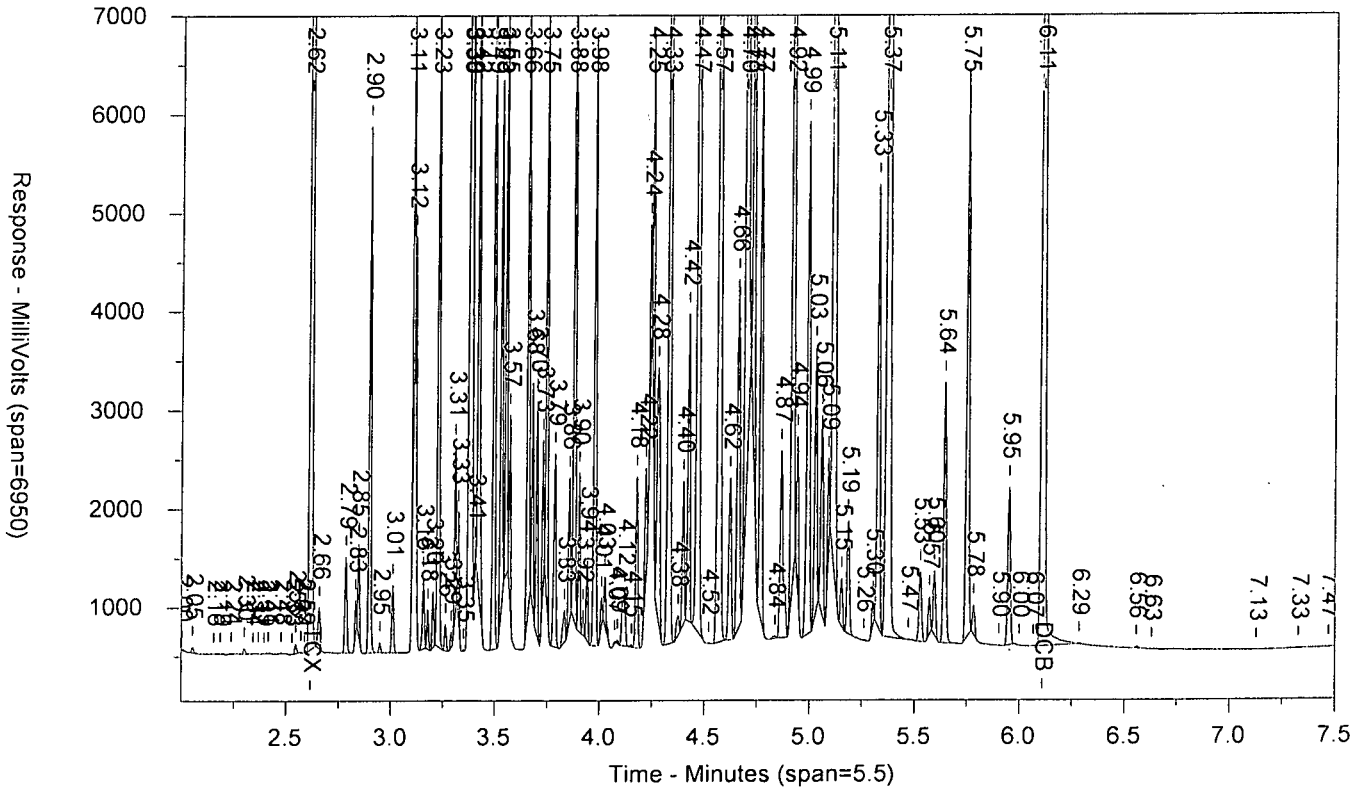

LANCASTER LABORATORIES

Sample Number: AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:14:47 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.922	7055128	63.703	TCX	2.616	43097310	63.864	TCX
6.61	4164353	63.537	DCB	6.109	29174170	62.072	DCB

Files:
Area File: 20pcbs17137001.010.RAW
Area File: 20pcbs17137001B.010.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:23:31 PM
File Reported On: 5/17/2017 at 6:23:44 PM

AR1641724A AAAR164AA ICAL 1713699999 10736 SW-846 8082

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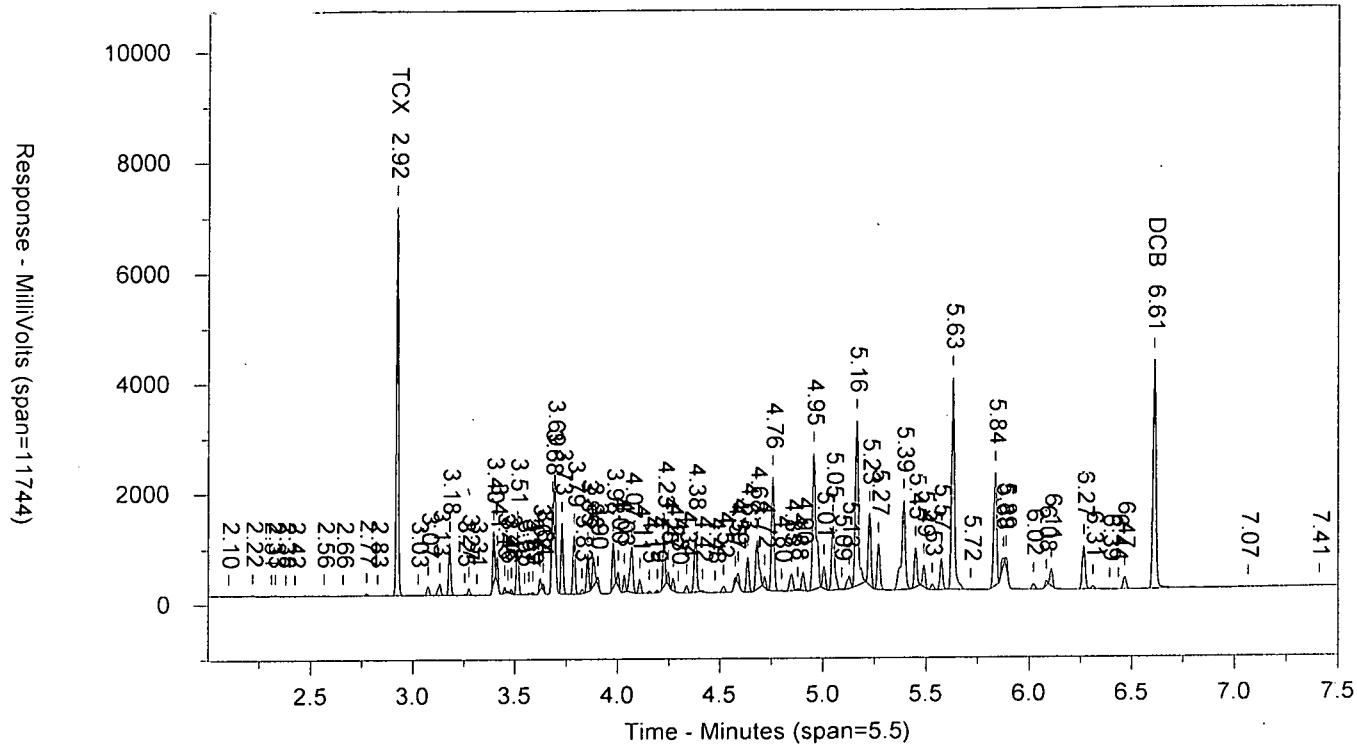

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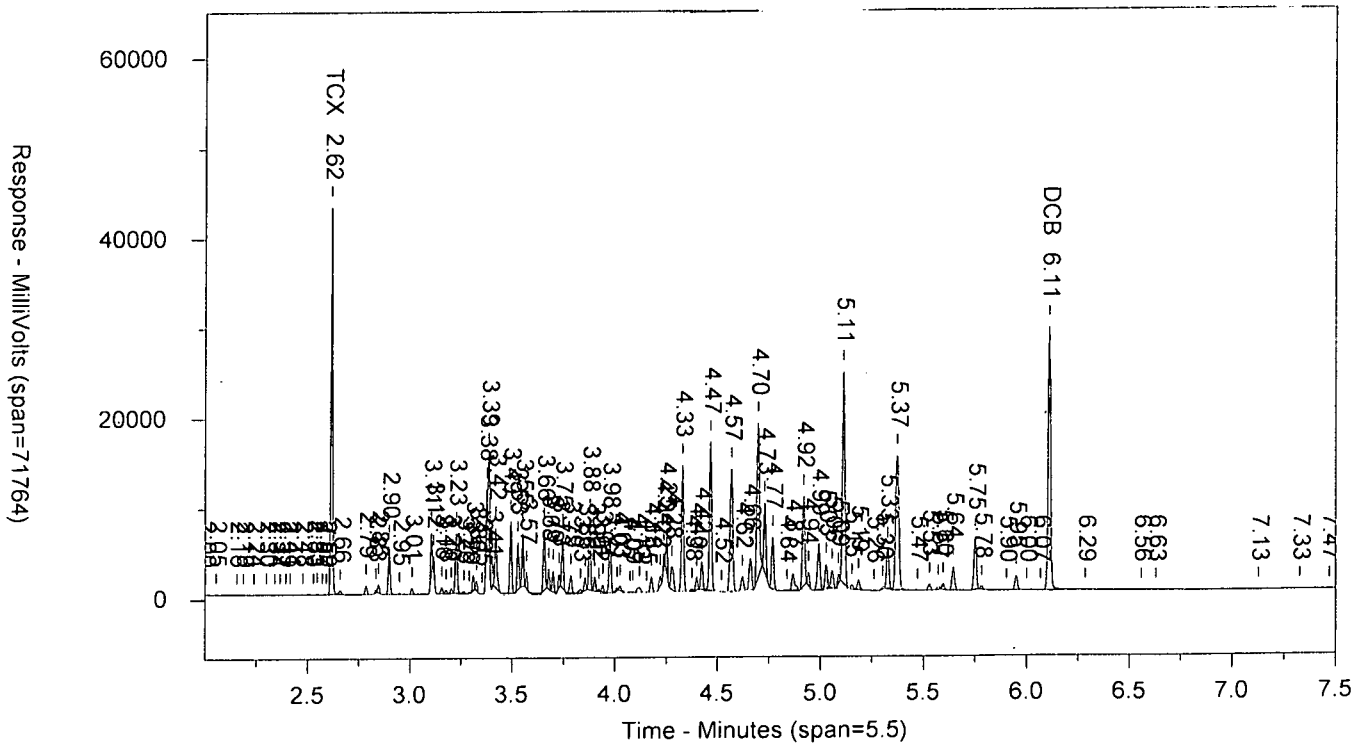

LANCASTER LABORATORIES

Sample Number: AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:26:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.011.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		6609	10567
2.217		33392	23006
2.309		9444	5733
2.328		11149	6737
2.377		1428	1987
2.423		3121	2859
2.501		1027	784
2.565		21447	16823
2.658		1125	1121
2.774		47034	41441
2.829		1374	873
2.842		3161	1685
2.923	TCX	9286271	6284122
3.026		2905	1773
3.076		314848	266435
3.133		398581	345261
3.181		1850936	1297698
3.254		17806	8952
3.274		235064	162457
3.313		5871	4095
3.395		1952608	1136559
3.412		905803	463412
3.45		206301	120580
3.466		59372	24203
3.481		152757	91823
3.512		2116157	1574989
3.547		9391	4932
3.567		31376	18976
3.586		73078	48233
3.622		418719	241215
3.637		217449	103256
3.681		869719	527673
3.692		2268970	1192811
3.728		2480108	1843420
3.787		2078035	1598728
3.826		149122	108795
3.853		1364971	997688
3.881		1016343	863152
3.903		295356	152845
3.978		1639692	1155087
4.002		536778	337128
4.032		601917	427260
4.068		1617722	1689137
4.107		488623	403472
4.153		73769	56197
4.192		81542	69333
4.226		1828750	1336092
4.247		447013	252321
4.27		460645	333793
4.337		261811	222973
4.38		1879169	1716426
4.414		48039	31081
4.477		21116	17395
4.518		223789	228972

RT A	Compound A	Height A	Area A
4.574		157777	108201
4.587		357727	226496
4.633		1223780	1081066
4.679		1745922	1892693
4.716		375013	280866
4.755		4090584	3720198
4.799		32163	32821
4.846		623060	678968
4.876		50367	32104
4.902		667361	601729
4.955		5111985	5961543
5.005		813959	713696
5.048		2337167	2477950
5.09		33060	19495
5.127		431279	513572
5.163		5788389	6380167
5.226		2543038	2310811
5.269		1638614	1537112
5.371		125794	179603
5.391		2818184	2401664
5.449		1389810	1312690
5.488		764268	663607
5.529		174754	164928
5.574		1069849	989258
5.63		7643374	7680144
5.714		5479	6423
5.836		4193396	4215172
5.876		212751	326892
5.887		277349	250041
6.022		136160	139066
6.086		135208	103076
6.109		608573	534065
6.216		2019	1504
6.266		1592194	1542332
6.311		100351	94551
6.433		1004	844
6.467		411987	416418
6.612	DCB	5556144	5570106
7.068		3930	5098
7.209		706	438
7.308		302	1937
7.429		666	1362
8.142		734	625

LANCASTER LABORATORIES

Sample Number: AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:26:15 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.011.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		5049	4308
2.054		78421	52686
2.149		6215	7146
2.187		3595	1551
2.242		12075	25298
2.3		112729	74905
2.363		4237	2894
2.413		7446	8531
2.477		5959	10803
2.529		9038	7025
2.547		132687	89302
2.572		20993	10970
2.59		2901	1521
2.616	TCX	56564200	33476620
2.659		760520	569812
2.76		1625	811
2.786		1928872	1287484
2.833		406980	184745
2.847		1785393	955540
2.899		10114640	6038160
2.949		137415	79915
2.986		3036	1686
3.01		1277752	800441
3.086		4406	1880
3.106		12407000	12141120
3.157		1430225	895633
3.178		755437	427973
3.203		1084799	600889
3.227		12762260	8394360
3.264		535063	315213
3.292		200253	94206
3.31		3586924	1804541
3.326		2083838	989159
3.352		23936	11199
3.376		7474550	3448850
3.385		17491340	7291536
3.406		446992	180030
3.419		13825460	8804595
3.493		16489430	9770370
3.528		10268590	6283276
3.551		11574780	6313338
3.569		3672657	1834353
3.622		5465	2088
3.655		12975370	8475472
3.677		4609047	2421276
3.699		4726709	2648968
3.728		3059692	1547909
3.744		11542480	6666600
3.785		3866337	2709304
3.833		602263	532183
3.855		3034871	1699028
3.877		14893850	9651443
3.902		3169828	1844005
3.921		459374	220397

RT B	Compound B	Height B	Area B
3.94		1600388	970787
3.975		12499880	8218656
4.009		551214	339682
4.025		912477	586860
4.071		27349	16924
4.086		94221	58298
4.112		111118	103256
4.119		439844	220888
4.153		43741	21283
4.177		3484572	2400744
4.218		2586604	1551717
4.237		3416198	1720834
4.251		8527515	4475124
4.277		4525069	4850387
4.328		27096230	20268580
4.375		384726	359808
4.398		2789599	1881516
4.423		5986391	4225441
4.466		32954410	24649070
4.569		26601510	24940970
4.621		3259109	2670662
4.659		7204695	6046917
4.696		35179360	28493330
4.728		14967790	10350100
4.767		10816790	8573390
4.835		47810	50734
4.866		3189371	2305444
4.883		331778	167160
4.918		20673490	15787180
4.941		2861660	1808256
4.992		10473700	9119623
5.028		5218651	4089662
5.057		3806092	3220714
5.089		1952650	1120329
5.112		47355350	39136040
5.153		954822	715299
5.185		1917115	1572556
5.226		15145	7048
5.303		441286	291250
5.326		8458221	7328032
5.372		31609230	34026340
5.472		10638	6050
5.527		1014981	863672
5.572		748031	565380
5.596		852197	644466
5.644		5199789	4391417
5.751		11296540	9233591
5.782		600846	427308
5.901		6961	5270
5.95		2781653	2538161
6.066		6370	5053
6.109	DCB	37969230	33247000
6.217		9009	5089
6.241		10288	7613
6.284		22105	21271
6.56		26445	22590
6.633		2915	6339
6.732		4279	3472
7.128		2616	3758
7.245		2319	2110
7.31		3752	4527
7.44		1722	3963
7.468		3288	5127
7.606		2539	5191
7.718		3630	11180
8.215		15362	25469

RT B	Compound B	Height B	Area B
8.462		2678	7052

AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082

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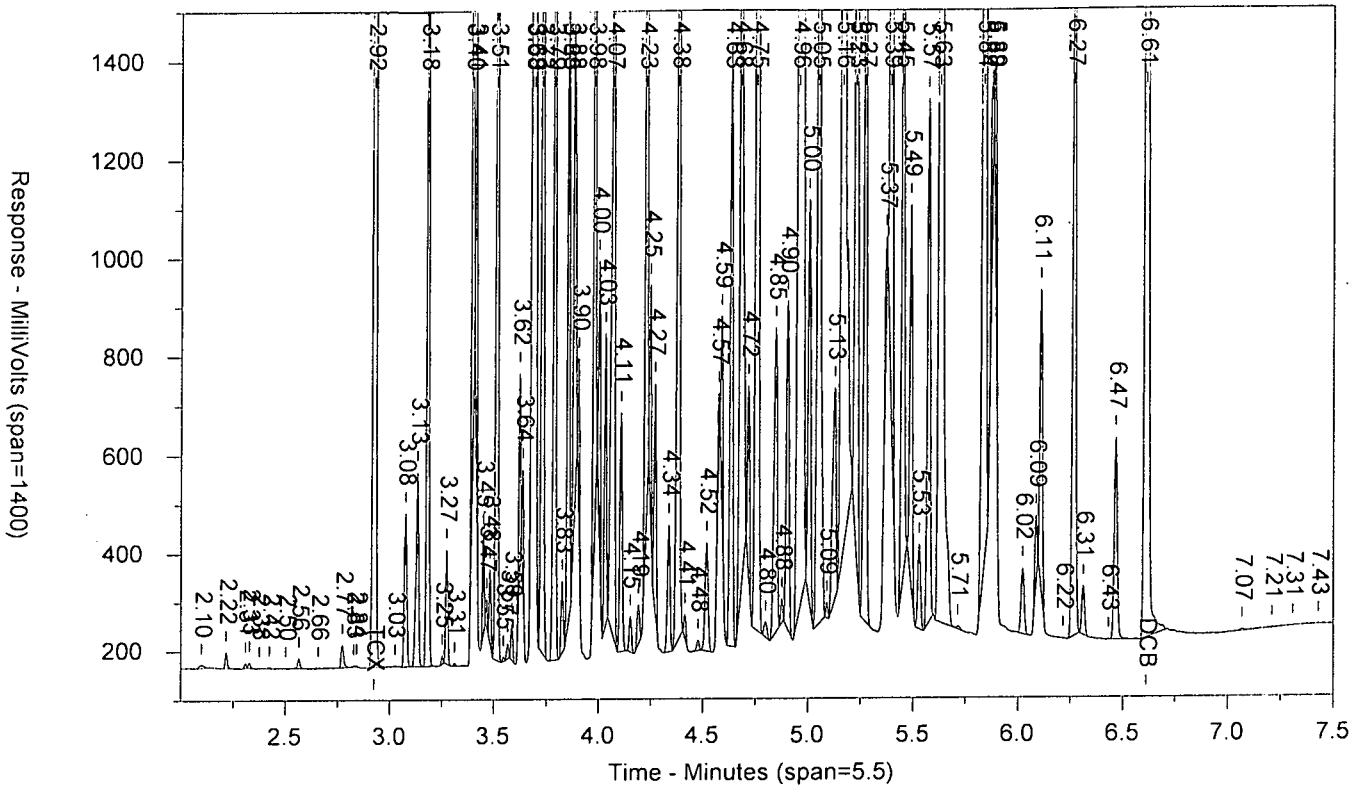

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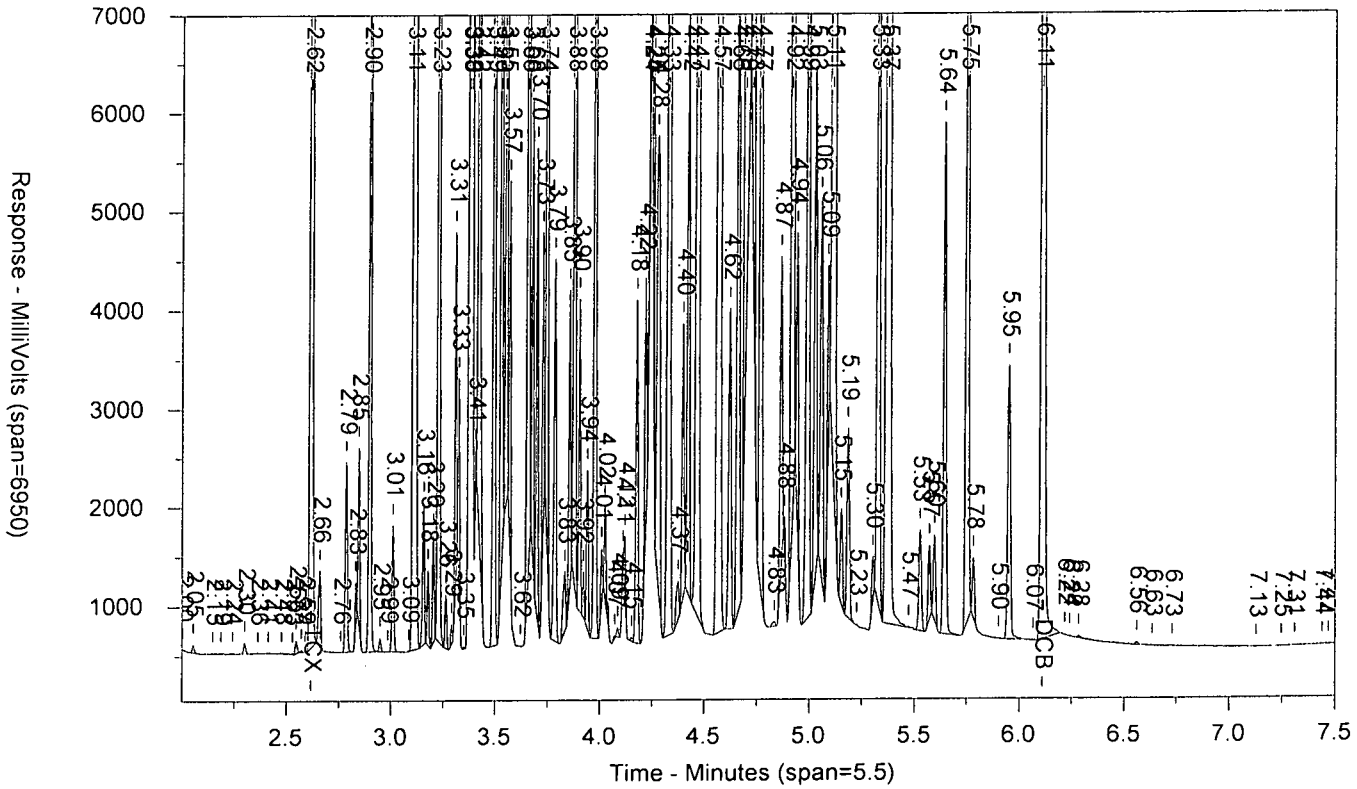

LANCASTER LABORATORIES

Sample Number: AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:26:15 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	9286271	82.662	TCX	2.616	56564200	82.637	TCX
6.612	5556144	83.221	DCB	6.109	37969230	79.504	DCB

Files:
Area File: 20pcbs17137001.011.RAW
Area File: 20pcbs17137001B.011.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:34:58 PM
File Reported On: 5/17/2017 at 6:35:07 PM

AR1651724A AAAR165AA ICAL 1713699999 10736 SW-846 8082

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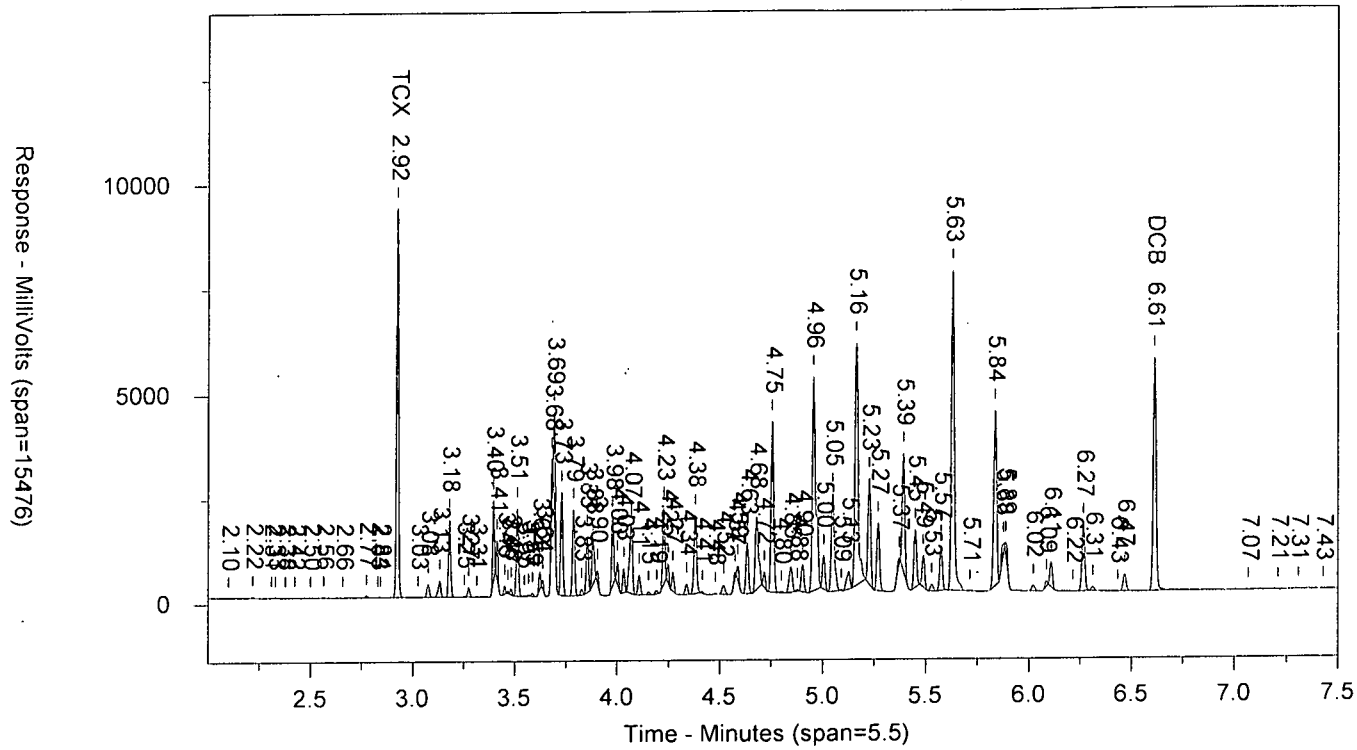

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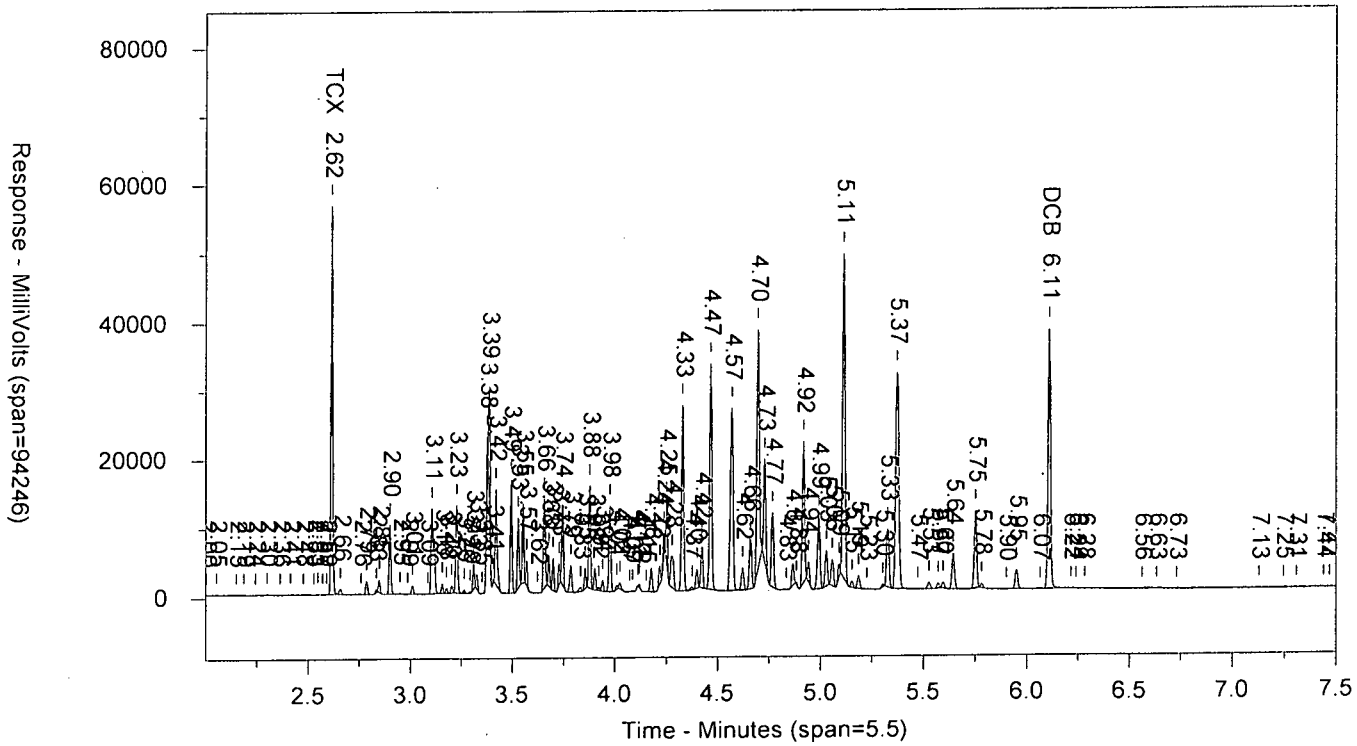


LANCASTER LABORATORIES

Sample Number: AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:37:44 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.012.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		9420	13791
2.139		2695	3192
2.218		1548	1231
2.309		17593	12805
2.379		1971	2311
2.424		3230	2863
2.551		1637	1231
2.661		1205	938
2.774		36807	31385
2.828		3966	3504
2.923	TCX	460974	306632
3.075		3648	3042
3.123		6576	6443
3.181		22198	17757
3.252		1136	614
3.274		4080	2899
3.395		66539	40572
3.412		20147	9344
3.449		3730	2222
3.481		1322	871
3.512		54242	40738
3.586		1865	1282
3.621		8696	5174
3.68		51110	25975
3.691		38092	22196
3.727		63771	48265
3.785		64312	49370
3.826		8233	5557
3.853		120639	88677
3.88		79453	62835
3.902		23382	13177
3.977		134537	99753
4.001		39255	25112
4.032		47204	33667
4.067		111038	105185
4.107		37712	29886
4.152		2433	1456
4.192		11015	9366
4.225		107029	76255
4.246		125818	84164
4.269		138872	101155
4.294		4561	2737
4.336		13002	12120
4.376		132507	109784
4.397		33005	17180
4.414		19711	11509
4.452		1847	1154
4.477		7483	5655
4.519		39651	38270
4.572		56844	48554
4.602		32615	24171
4.633		96997	83841
4.678		2597	2559
4.718		37162	33180

RT A	Compound A	Height A	Area A
4.755		9074	10642
4.805		8310	7753
4.847		63827	59798
4.927		5810	7266
4.954		5586	3714
4.972		4513	2689
5.047		61112	61478
5.087		1620	1175
5.117		3936	4439
5.163		16794	16115
5.202		1956	1480
5.224		2190	1687
5.269		1559	1776
5.375		3289	2838
5.433		1011	1006
5.529		4227	4690
5.573		3067	3196
5.63		4080	3068
5.65		2861	2189
5.746		1379	1131
5.835		5260	5769
5.894		1611	2470
5.988		1174	1286
6.022		5552	5854
6.087		5249	4867
6.107		1396	850
6.222		820	2372
6.266		2133	2204
6.332		2179	2208
6.463		4410	4390
6.506		1274	1555
6.611	DCB	287278	315972
7.303		1082	62618
8.242		408	493
8.452		765	792

LANCASTER LABORATORIES

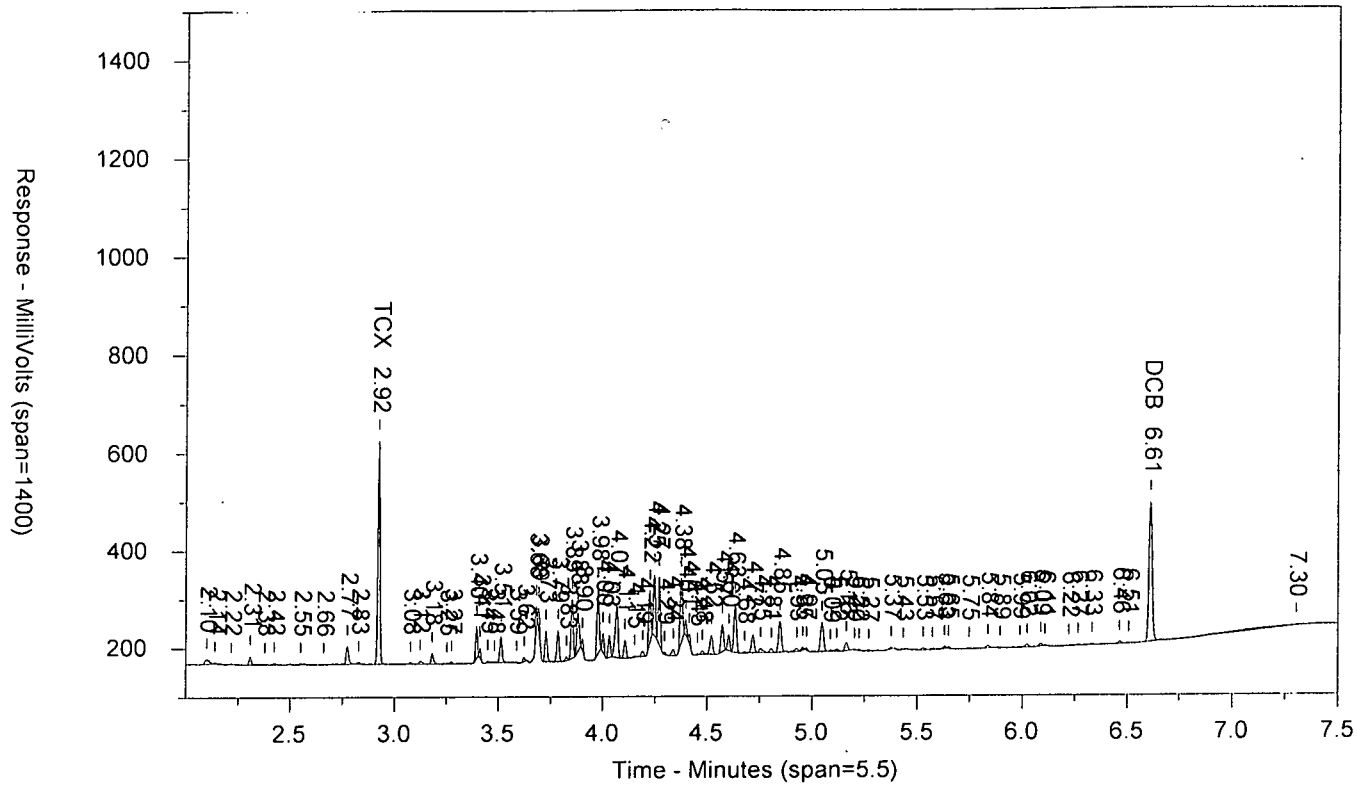
Sample Number: AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:37:44 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.012.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		13837	11521
2.158		6038	4406
2.202		8846	4381
2.242		14742	23404
2.301		2489	2659
2.343		1735	1225
2.413		10480	14250
2.478		5171	3746
2.547		107455	84633
2.615	TCX	2792628	1632223
2.659		8028	5082
2.702		3908	6430
2.786		19090	14055
2.833		32219	16276
2.847		15034	9075
2.899		125696	93234
2.949		7374	4768
3.009		24675	17475
3.105		423146	365759
3.157		16966	9686
3.179		14715	11204
3.202		12530	6411
3.227		335335	221142
3.266		19372	12424
3.291		10944	5281
3.31		70444	35061
3.325		81426	41767
3.354		3156	1550
3.375		335505	152097
3.384		346830	148681
3.405		72833	31513
3.418		306693	170510
3.493		508469	317825
3.527		865156	525161
3.551		791158	438826
3.569		268385	136027
3.598		4439	3854
3.654		1060079	673747
3.677		310794	170971
3.698		349791	206025
3.727		161321	82064
3.743		747212	439649
3.785		284286	199864
3.832		57506	48559
3.854		579818	360234
3.876		1406615	889202
3.901		973126	605228
3.921		85680	41372
3.939		72415	39043
3.975		433187	300332
4.01		700668	535716
4.038		345500	197367
4.074		18716	12517
4.084		23521	11260

RT B	Compound B	Height B	Area B
4.119		256598	189309
4.176		409784	311064
4.209		247485	165484
4.237		637437	466741
4.275		13398	12403
4.33		267772	251235
4.366		57493	42078
4.398		392834	292850
4.422		12899	6737
4.441		5257	2617
4.465		55036	34933
4.49		33382	23215
4.515		9877	10037
4.565		71770	75357
4.616		365100	279425
4.644		4461	2229
4.66		10002	10245
4.696		106538	88952
4.728		8227	4237
4.768		10978	11681
4.842		12128	16920
4.865		2204	1165
4.884		3799	2997
4.917		19274	13880
4.941		33457	25388
4.989		10823	9826
5.026		5075	4034
5.061		14250	11408
5.088		13709	8898
5.111		35264	28947
5.185		32174	26845
5.327		10781	8032
5.346		4032	1904
5.373		23360	23338
5.444		5960	5060
5.527		41637	36055
5.595		45547	44880
5.644		19132	22733
5.749		11345	11294
5.832		2688	2458
5.948		29788	26671
6.109	DCB	2026870	1878598
7.193		1996	1167
7.365		1771	6866
7.437		2156	4853
7.921		1763	1750
8.218		15936	30555

AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.012.RAW



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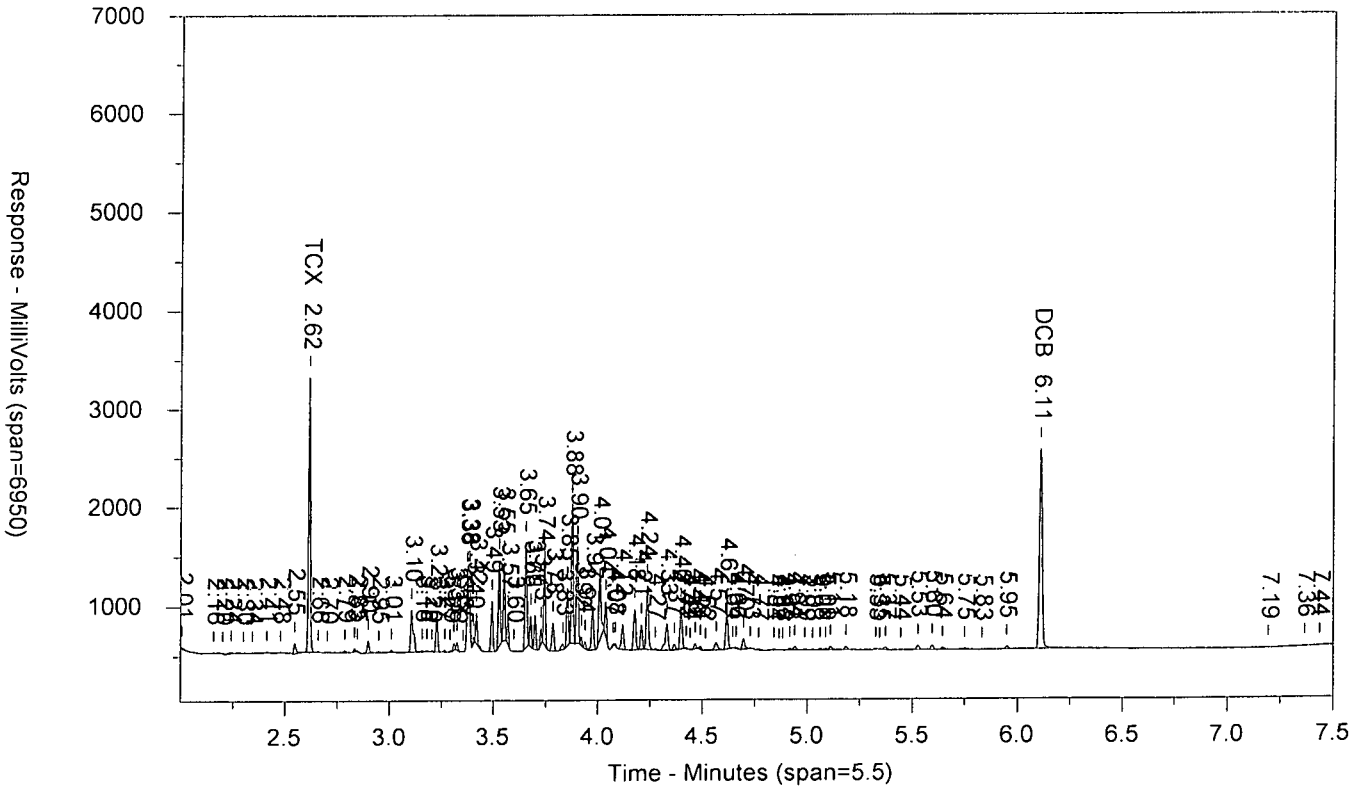

LANCASTER LABORATORIES

Sample Number: AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:37:44 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	460974	4.056	TCX	2.615	2792628	4.04	TCX
6.611	287278	4.175	DCB	6.109	2026870	4.16	DCB

Files:
Area File: 20pcbs17137001.012.RAW
Area File: 20pcbs17137001B.012.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:46:29 PM
File Reported On: 5/17/2017 at 6:46:37 PM

AR4811724A AAAR481AA ICAL 1713699999 10736 SW-846 8082

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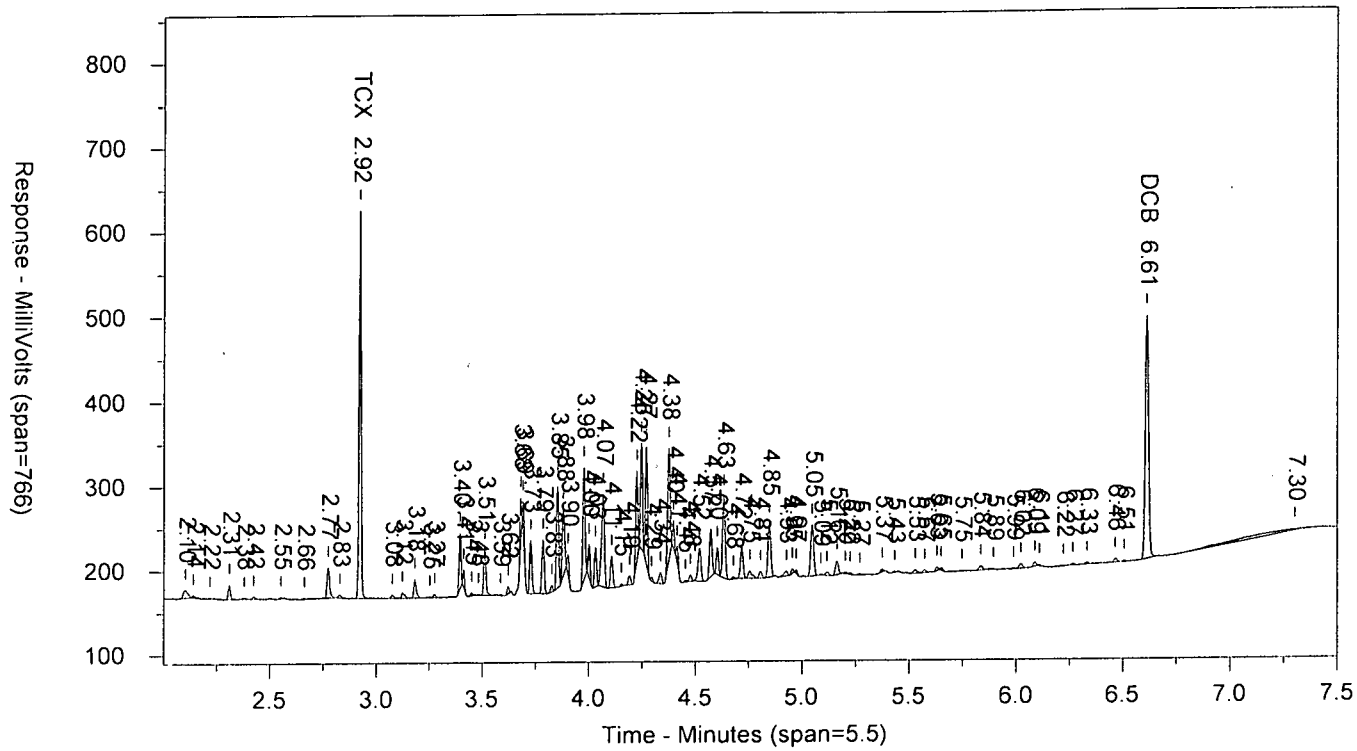

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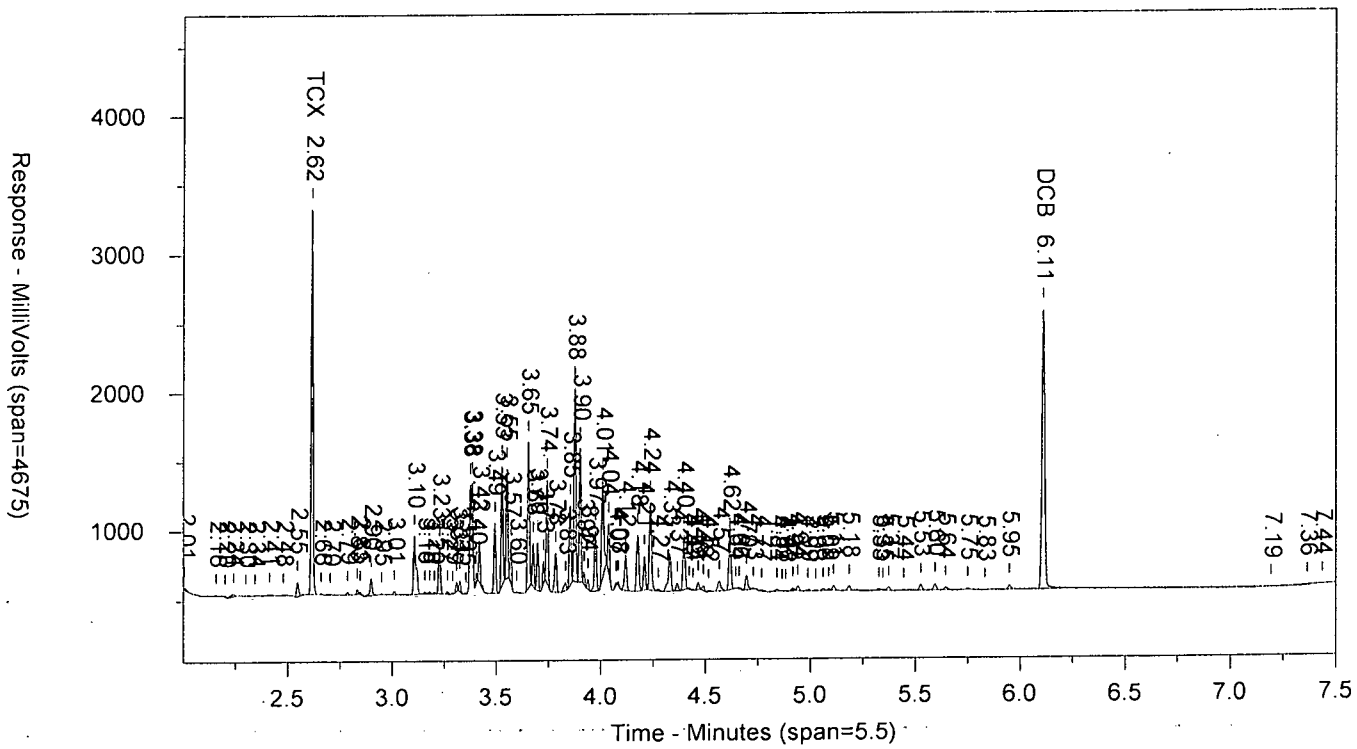

LANCASTER LABORATORIES

Sample Number: AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:49:09 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.013.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		8863	12774
2.217		7883	6283
2.309		17058	10884
2.328		2033	1139
2.378		1826	2076
2.424		3220	2724
2.501		783	907
2.55		930	688
2.658		1162	990
2.774		36945	32374
2.828		4181	4053
2.923	TCX	2278533	1522250
3.075		7340	6495
3.122		33148	25086
3.181		44509	33093
3.253		5064	2971
3.273		7960	5117
3.394		120669	76145
3.411		37077	18184
3.448		7807	4539
3.481		2419	1499
3.511		106353	78468
3.567		7654	4597
3.584		2856	1725
3.62		19558	10913
3.635		5024	2112
3.679		85107	46887
3.69		94974	49013
3.726		121620	95712
3.784		118635	98850
3.825		18392	12179
3.852		225584	167928
3.879		152868	121488
3.902		49125	26753
3.977		264307	190492
4		76727	49035
4.03		92742	66611
4.066		215342	203852
4.107		76787	59738
4.152		6335	4535
4.191		21383	18438
4.224		204920	142782
4.245		256218	163739
4.268		253751	196866
4.294		3248	1885
4.335		26263	23979
4.374		246079	210227
4.396		61552	31650
4.412		41504	22841
4.452		3815	2534
4.476		15100	11170
4.518		78122	70692
4.571		106928	94912
4.602		63905	46638

RT A	Compound A	Height A	Area A
4.631		183459	160259
4.677		4600	4351
4.717		73920	64288
4.754		16219	20030
4.805		17218	16019
4.846		121956	114282
4.877		5010	3513
4.925		10589	13229
4.954		10041	7430
4.971		8133	4912
5.003		2019	1505
5.046		118261	113310
5.088		2502	1962
5.117		14023	14486
5.162		28608	28155
5.202		2650	1689
5.223		3861	3160
5.266		2559	2616
5.373		11513	17369
5.448		3104	4466
5.527		12100	12065
5.573		5646	4737
5.629		5386	3604
5.649		15739	13504
5.833		9131	10003
5.889		3152	5333
5.983		936	670
6.021		25946	25612
6.085		23482	20783
6.265		3900	4752
6.465		17052	17693
6.611	DCB	1306080	1375143
7.07		1067	3992
7.352		946	23922
7.817		619	376
8.151		693	492
8.421		871	5862

LANCASTER LABORATORIES

Sample Number: AR4821724A AAAR482AA ICAL.1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:49:09 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.013.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		12674	9588
2.053		21106	15095
2.119		1803	1366
2.157		5401	4043
2.24		15572	24720
2.394		1693	1038
2.411		5254	5952
2.477		6016	4726
2.547		108403	85248
2.616	TCX	13624770	8113178
2.659		13338	6855
2.786		47617	34058
2.833		187138	143484
2.898		246549	165125
2.949		35799	21302
3.009		50331	30714
3.105		793582	694356
3.156		44860	25862
3.178		24210	15005
3.203		22217	12059
3.226		650909	426639
3.264		31310	18749
3.291		60358	30226
3.309		146093	73412
3.324		94903	45633
3.353		3200	1295
3.374		663878	308601
3.384		712787	278776
3.404		142940	60947
3.417		596263	339440
3.492		978927	610801
3.526		1603513	1002633
3.55		1476024	831493
3.568		521860	255818
3.653		2040152	1292816
3.676		584327	317512
3.697		667585	396289
3.726		305199	152756
3.743		1446082	847009
3.783		548478	388253
3.831		113492	94019
3.853		1160536	697154
3.876		2750551	1739992
3.901		1976571	1194788
3.92		170095	81575
3.938		139618	76284
3.974		825765	569739
4.009		1379956	1038199
4.037		716173	397922
4.084		116435	117795
4.119		498679	363146
4.15		6017	2857
4.175		815248	605941
4.208		458027	317281

RT B	Compound B	Height B	Area B
4.236		1230562	895747
4.274		24713	24306
4.33		506491	475448
4.365		123636	86474
4.397		795399	574260
4.421		23369	11593
4.439		29019	17037
4.464		104496	65148
4.489		61354	42980
4.526		3070	4331
4.564		133747	134939
4.615		713273	566649
4.667		74529	74137
4.696		190862	162598
4.727		15875	7286
4.742		13738	7063
4.765		17366	15290
4.841		11660	18085
4.866		3861	1897
4.883		7770	4665
4.916		35598	25425
4.94		64428	48436
4.989		20000	20841
5.026		7429	5536
5.062		60903	49330
5.088		24377	15902
5.111		60332	51667
5.185		149495	128826
5.305		1869	1361
5.326		28609	24579
5.373		54171	54842
5.443		7885	9255
5.526		178097	154925
5.595		188546	169338
5.644		69006	57783
5.751		24891	20941
5.95		119810	100049
5.983		3382	1976
6.108	DCB	9301134	8333380
6.473		1879	2574
6.558		7280	10450
6.716		1828	2434
7.027		2162	5238
7.496		2036	23563
7.722		2575	5850
7.778		2456	4586
8.216		16487	29376
8.412		1911	2075
8.497		1270	1150

AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082

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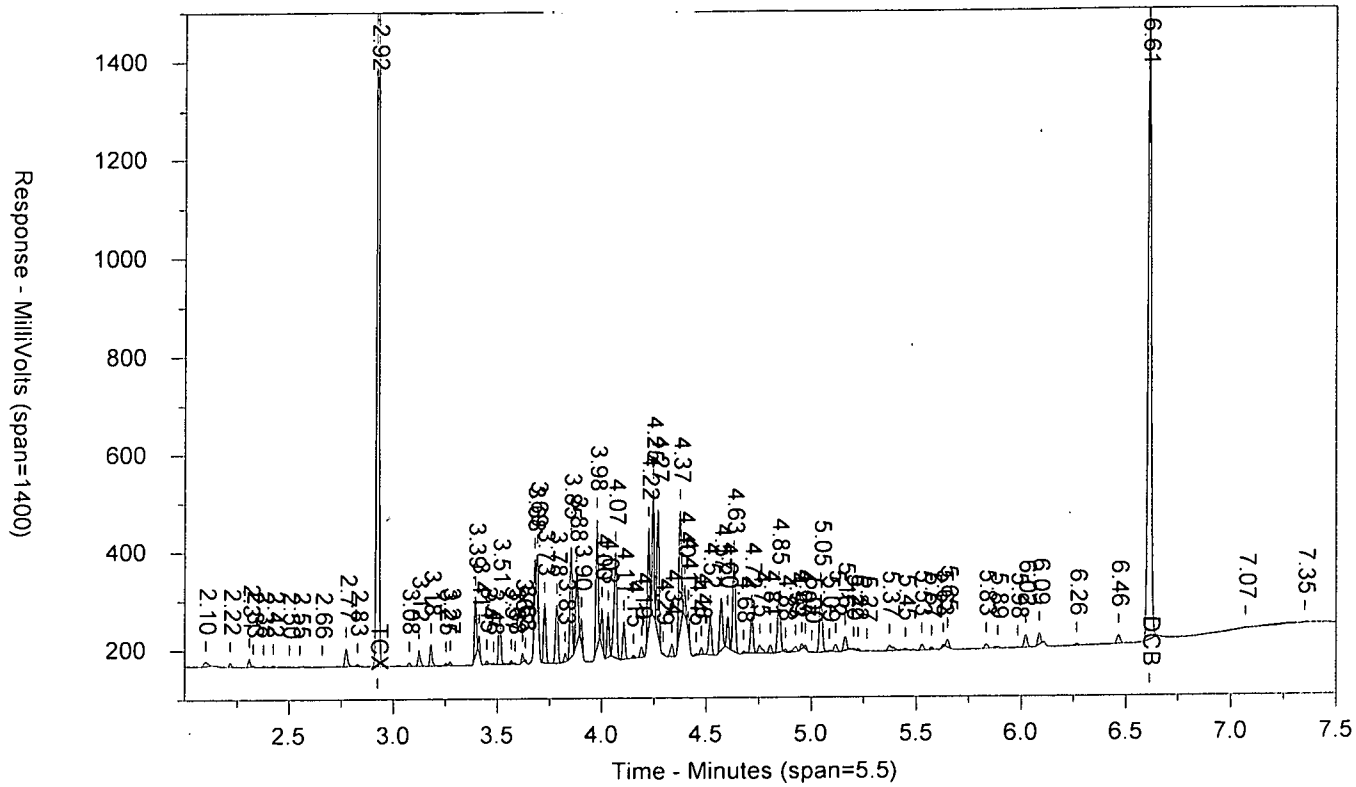

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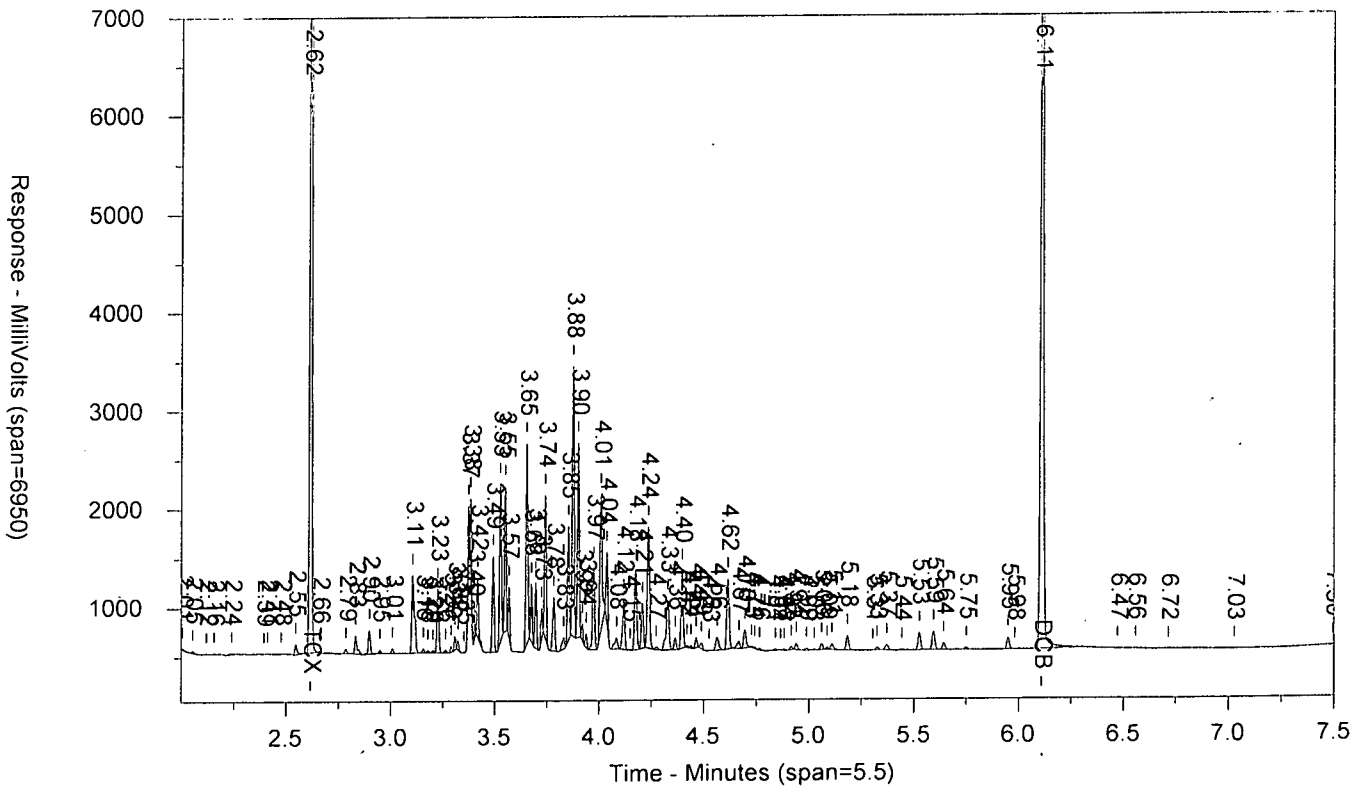

LANCASTER LABORATORIES

Sample Number: AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 6:49:09 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2278533	20.05	TCX	2.616	13624770	19.709	TCX
6.611	1306080	18.979	DCB	6.108	9301134	19.092	DCB

Files:
Area File: 20pcbs17137001.013.RAW
Area File: 20pcbs17137001B.013.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 6:57:54 PM
File Reported On: 5/17/2017 at 6:58:03 PM

AR4821724A AAAR482AA ICAL 1713699999 10736 SW-846 8082

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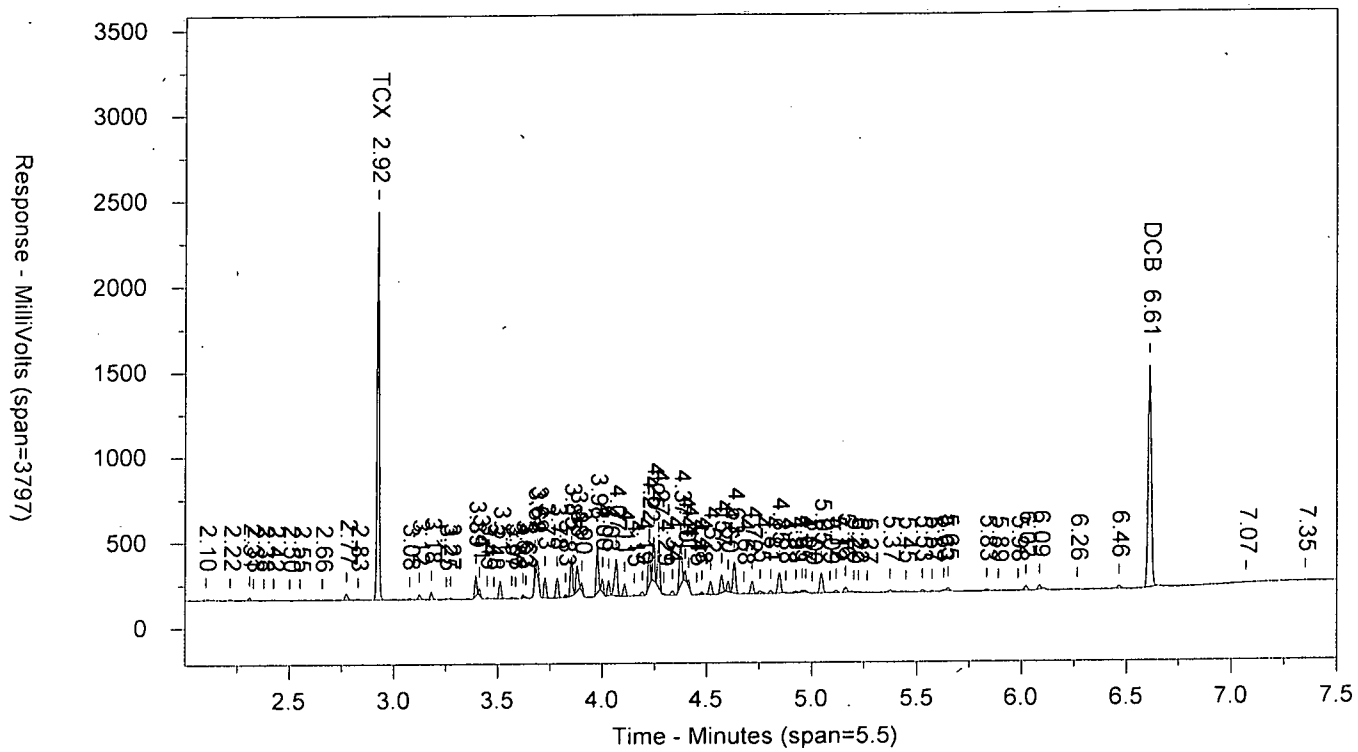

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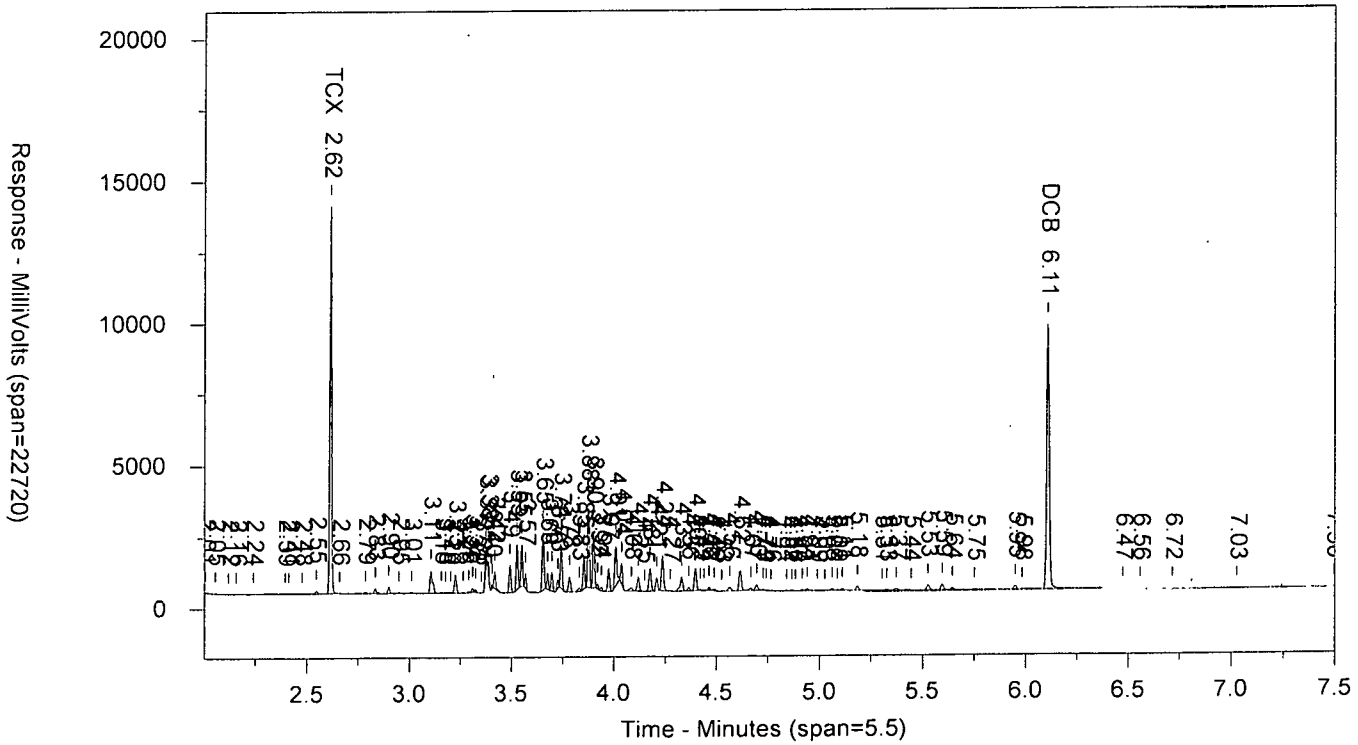

LANCASTER LABORATORIES

Sample Number: AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:00:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.014.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.098		7336	16981
2.217		16226	11825
2.309		14041	8787
2.327		5347	2999
2.375		1209	1416
2.423		4191	3406
2.447		2452	1636
2.564		2513	3753
2.656		1085	867
2.773		40534	35222
2.827		5129	4482
2.923	TCX	4587250	3123811
3.025		1452	765
3.075		16285	13493
3.122		64679	49669
3.18		84570	61014
3.252		9077	5367
3.273		15100	9711
3.359		990	627
3.394		222033	134027
3.411		65503	33182
3.448		14799	8715
3.464		2958	1222
3.48		4553	2542
3.511		195244	146100
3.566		16698	9470
3.584		6998	3893
3.62		36082	21548
3.635		8490	3848
3.679		150048	81391
3.69		171370	89178
3.726		227162	179863
3.784		225668	184826
3.825		35371	24172
3.853		411007	305360
3.88		273118	220845
3.901		84653	46384
3.976		487480	354434
4		131154	86357
4.031		170033	123894
4.066		402590	385907
4.106		135862	112361
4.151		13782	10351
4.191		39839	35741
4.225		381910	269549
4.246		471790	310905
4.269		537758	385660
4.335		49148	46219
4.375		480448	402574
4.396		122790	64051
4.412		68963	40370
4.453		8018	5090
4.476		27833	20987
4.519		138344	130249

RT A	Compound A	Height A	Area A
4.571		203806	178929
4.602		113417	86670
4.631		356304	303032
4.676		6981	4877
4.716		132384	120010
4.754		31226	38211
4.805		32595	30425
4.846		218179	213403
4.876		9982	6739
4.926		18658	22653
4.955		21448	14973
4.971		13512	9218
5.003		4362	3659
5.046		215397	213546
5.09		5162	3796
5.117		25950	26481
5.163		58120	52846
5.202		3963	2271
5.225		8187	6102
5.269		4610	3850
5.373		12843	11039
5.448		5089	5086
5.528		20621	20740
5.573		11315	9751
5.598		1746	1108
5.629		11015	7814
5.649		27066	22025
5.769		457	847
5.834		15684	17087
5.889		6216	10197
5.988		2220	2235
6.021		46753	45496
6.086		43923	37336
6.107		8617	5621
6.265		7398	7925
6.334		906	757
6.465		36413	36015
6.611	DCB	2842436	2848658
7.073		1611	5730
7.306		716	12103
8.405		918	1260

LANCASTER LABORATORIES

Sample Number: AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:00:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.014.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3444	3863
2.054		44006	39640
2.116		6698	12075
2.156		10009	36453
2.239		14121	22654
2.271		3363	2509
2.301		6009	5309
2.339		2180	1411
2.412		6880	7806
2.483		8694	33895
2.547		115743	101911
2.615	TCX	28617680	16447440
2.658		23928	12271
2.705		5148	5861
2.786		105357	73269
2.833		319001	169103
2.846		37322	13877
2.898		455497	294677
2.949		69823	40519
2.987		4082	2600
3.009		95274	57273
3.105		1482590	1268741
3.156		88139	52558
3.178		49359	28545
3.202		41303	21853
3.226		1188578	790716
3.263		67566	39850
3.291		119484	62255
3.309		268702	133945
3.324		181149	88636
3.352		3110	1589
3.374		1301277	588286
3.384		1391605	540213
3.404		255749	106841
3.417		1129541	652184
3.492		1839733	1141639
3.526		3190942	1861196
3.55		2867077	1557964
3.568		937692	477721
3.653		3901099	2435925
3.675		1060771	576854
3.697		1216937	734922
3.726		588049	301808
3.742		2796950	1616864
3.783		1018226	724635
3.831		207629	179442
3.853		2172541	1309647
3.876		5354666	3322076
3.9		3809695	2298570
3.919		300053	148653
3.938		256799	142934
3.974		1511710	1058953
4.009		2618636	1978975
4.037		1427806	791296

RT B	Compound B	Height B	Area B
4.084		214352	187210
4.119		885113	676623
4.151		10838	5457
4.175		1532848	1152285
4.207		880973	598004
4.236		2374166	1688450
4.274		47048	45713
4.329		929146	892012
4.364		231903	171419
4.397		1505291	1089909
4.42		43909	21586
4.439		52539	30294
4.463		194631	125097
4.489		118363	82224
4.518		2374	2301
4.564		246709	245923
4.616		1462199	1121668
4.667		144890	144677
4.695		359720	313195
4.727		30293	13922
4.741		22855	12165
4.765		28910	22463
4.823		4344	4790
4.838		4921	2650
4.865		8529	4447
4.882		12522	8340
4.917		62485	46529
4.94		122641	91421
4.99		36666	38891
5.027		14333	10858
5.061		116500	94770
5.088		45383	29582
5.11		119537	99019
5.157		3951	2732
5.184		237588	208109
5.302		2565	1929
5.325		56276	45290
5.373		106772	107999
5.444		15439	13148
5.526		319976	275686
5.594		339332	304690
5.643		126665	108124
5.749		48445	40242
5.779		2461	2571
5.903		5207	4533
5.949		237481	203301
5.98		5541	3743
6.003		3923	2475
6.108	DCB	19790550	16876110
6.242		4497	1796
6.559		14308	12962
7.325		1538	3468
7.445		1853	4071
7.581		1203	4806
8.216		14497	24913

AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082

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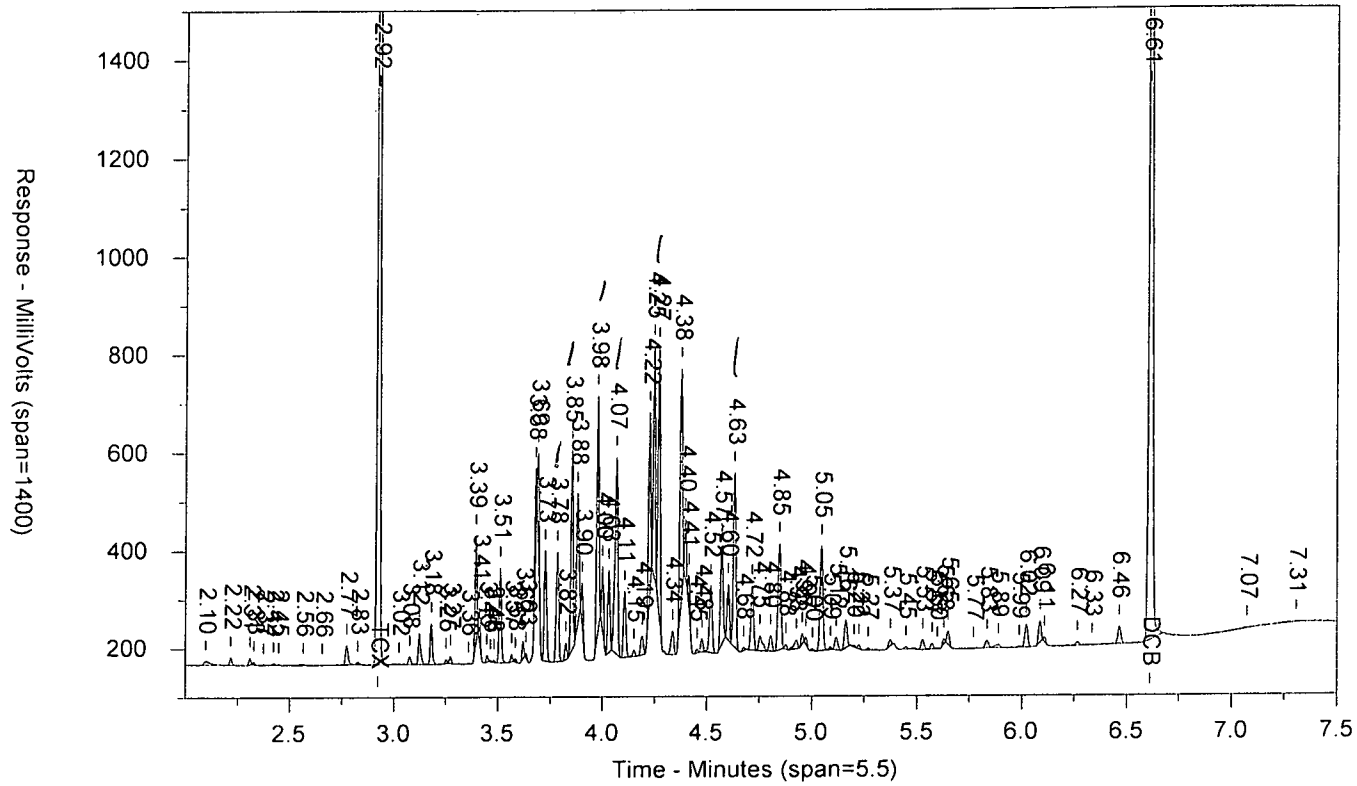

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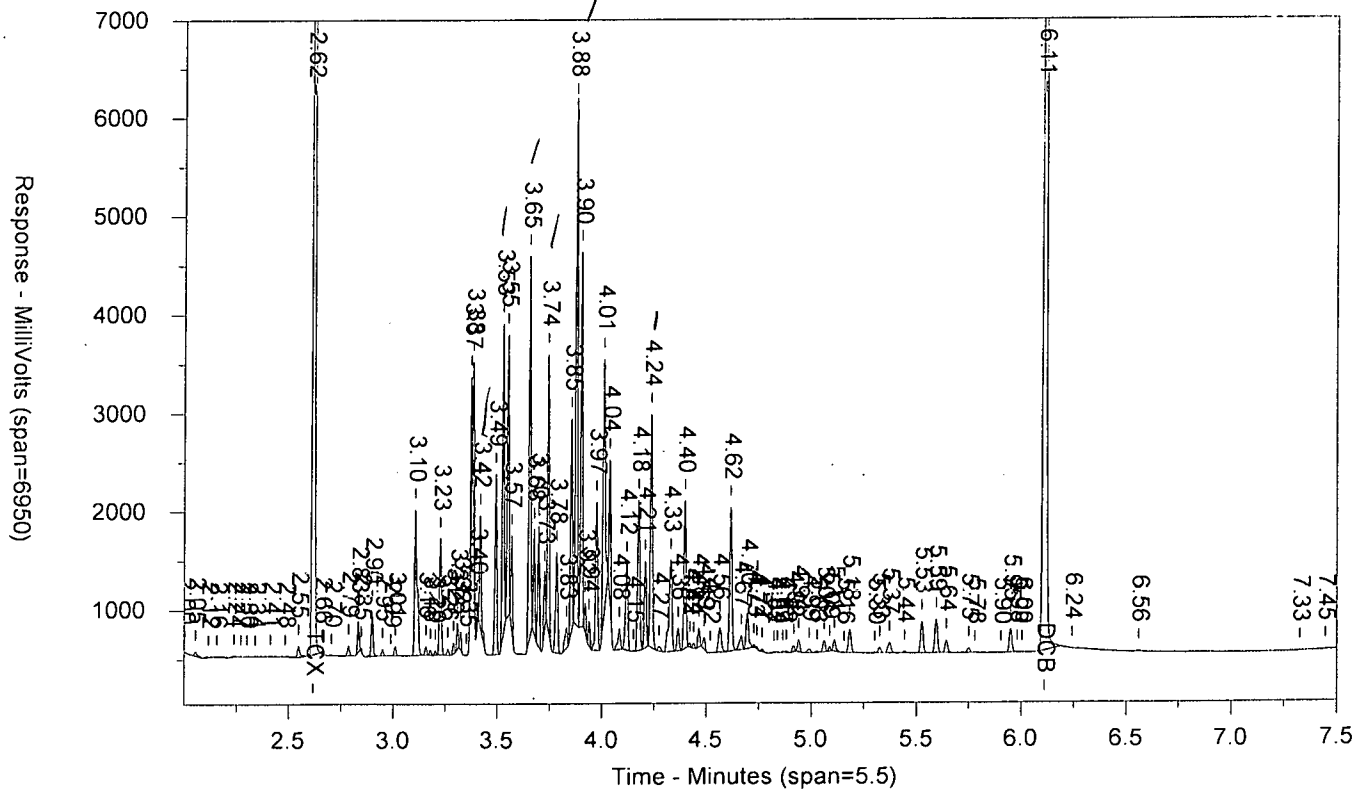

LANCASTER LABORATORIES

Sample Number: AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:00:30 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4587250	40.366	TCX	2.615	28617680	41.396	TCX
6.611	2842436	41.305	DCB	6.108	19790550	40.623	DCB

Files:
Area File: 20pcbs17137001.014.RAW
Area File: 20pcbs17137001B.014.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:09:14 PM
File Reported On: 5/17/2017 at 7:09:25 PM

AR4831724A AAAR483AA ICAL 1713699999 10736 SW-846 8082

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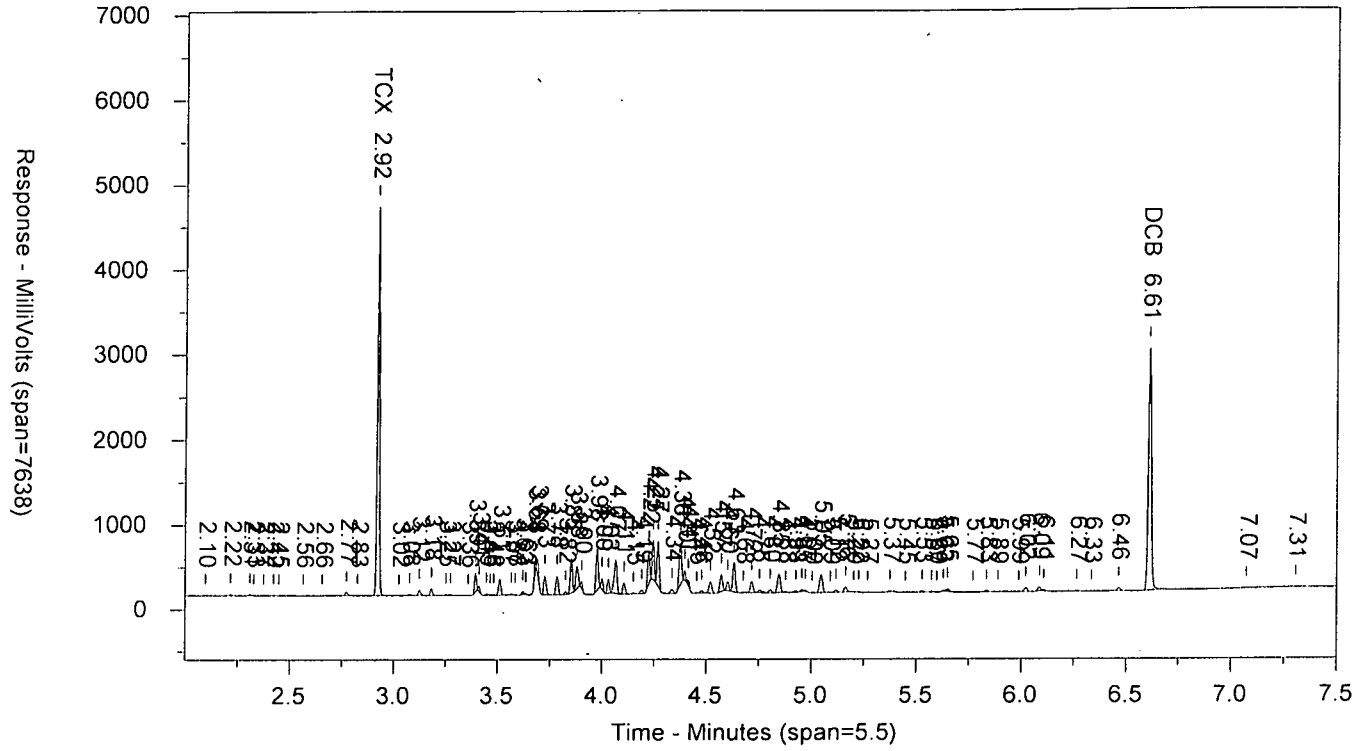

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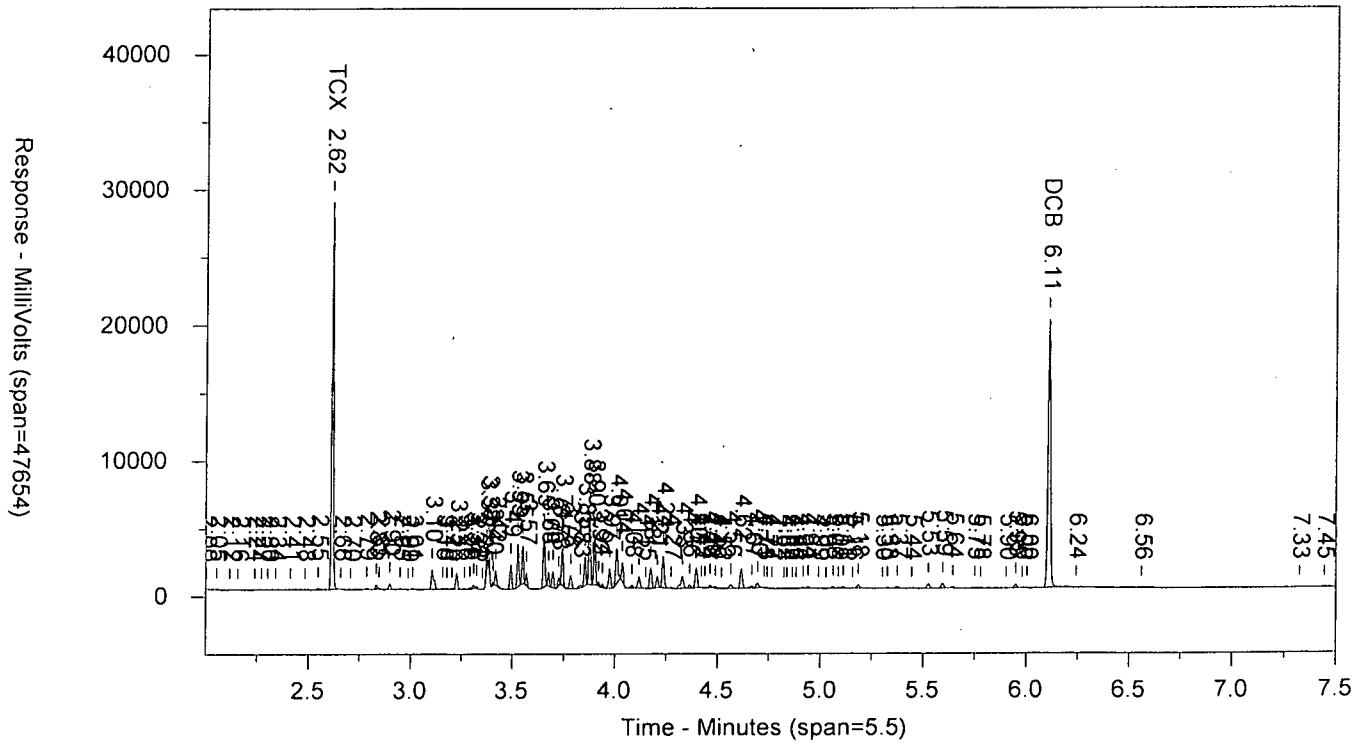

LANCASTER LABORATORIES

Sample Number: AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:12:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.015.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		8359	11412
2.217		25475	18105
2.309		18010	11099
2.328		8169	4613
2.379		1939	2109
2.425		5826	5119
2.502		1259	1342
2.549		1349	824
2.564		2259	1438
2.658		1639	2137
2.719		1104	835
2.751		900	520
2.774		29483	24102
2.827		6706	6911
2.923	TCX	7226676	4837779
3.026		2483	1372
3.076		32963	27097
3.123		94733	84334
3.18		186204	135528
3.253		14496	8008
3.273		40117	25714
3.395		502874	310855
3.411		149550	74955
3.448		38214	23350
3.464		6225	2497
3.481		13356	7395
3.51		431278	343546
3.567		27448	16091
3.584		11914	7042
3.621		85162	51668
3.635		23090	10448
3.679		394745	200189
3.691		463102	243635
3.727		546276	418133
3.785		559879	450439
3.826		81569	57981
3.852		971043	719358
3.88		667112	533846
3.902		194270	109451
3.977		1155522	871026
4		320603	207999
4.032		401133	289492
4.067		1004437	938930
4.107		326973	264547
4.152		35307	27208
4.192		94004	84108
4.225		1000110	665927
4.246		1226616	790763
4.269		1321562	954947
4.336		113798	109548
4.375		1190273	989844
4.397		321817	173611
4.413		132081	75046
4.454		18080	12508

RT A	Compound A	Height A	Area A
4.477		67396	49640
4.519		327243	297902
4.571		499375	429364
4.603		277622	205483
4.633		858936	739322
4.678		16424	12069
4.717		323537	282569
4.755		71517	88544
4.806		81053	70440
4.847		525102	498791
4.877		15514	10685
4.928		42141	52201
4.955		45587	32824
4.972		31596	19842
5.004		8753	7647
5.047		542277	526559
5.09		13426	9820
5.117		50534	51789
5.163		131717	121644
5.186		5687	2336
5.203		8631	4776
5.225		19026	14310
5.269		10691	11284
5.312		1687	1059
5.374		30550	25825
5.449		9934	8537
5.489		4784	3486
5.528		35475	35147
5.574		25419	22776
5.598		3997	2637
5.63		27848	21508
5.651		51399	39666
5.745		736	1336
5.835		35240	39182
5.89		14238	24728
5.986		4651	4375
6.022		77886	78719
6.087		76377	63391
6.108		14759	9500
6.266		17469	17943
6.31		1303	991
6.393		1512	1459
6.466		55941	55077
6.613	DCB	4126763	4242890
6.733		2097	1683
6.928		910	2505
7.07		3257	6854
7.361		1248	24387
8.312		623	615
8.679		3418	4538

LANCASTER LABORATORIES

Sample Number: AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:12:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.015.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		10147	8761
2.054		62382	41138
2.121		3018	1528
2.155		6616	6112
2.24		18624	29435
2.3		14902	9329
2.344		1835	1313
2.413		9168	9202
2.477		8693	13344
2.546		79682	47111
2.574		4489	3194
2.59		4992	2276
2.616	TCX	43947670	25366120
2.658		66747	37768
2.786		206161	143015
2.832		469933	241676
2.846		113410	45878
2.899		1009828	635651
2.949		109336	62353
3.009		231863	140711
3.105		3404198	2919764
3.156		231691	131585
3.178		89159	51544
3.203		101069	53368
3.227		2803889	1838013
3.264		113912	66969
3.291		185864	93769
3.309		634255	326330
3.324		302451	150305
3.351		6502	3238
3.374		3285784	1441643
3.384		3600312	1395639
3.404		569247	236335
3.418		2448493	1440444
3.492		4433489	2762948
3.527		7487300	4448681
3.55		6681319	3757791
3.568		2269669	1133104
3.653		9506378	5868204
3.676		2429337	1291614
3.697		2947622	1677754
3.726		1353091	671378
3.743		7023268	3946533
3.784		2351769	1703449
3.831		499056	411598
3.853		5382607	3249192
3.876		13107570	8193184
3.901		9545825	5689826
3.92		702686	330629
3.938		548569	306165
3.974		3629686	2499866
4.009		6419640	4809036
4.037		3780750	2057560
4.084		476624	375873

RT B	Compound B	Height B	Area B
4.119		2067483	1583569
4.151		18383	9410
4.176		3677732	2693049
4.209		1965832	1344551
4.236		5812918	4035195
4.274		119025	112311
4.33		2225487	2102556
4.365		537375	394559
4.397		3688487	2636272
4.421		98065	50404
4.44		80931	45440
4.464		427943	279985
4.49		272905	191291
4.52		5337	3759
4.564		562937	572681
4.616		3675986	2807203
4.667		261697	297484
4.696		886130	740101
4.727		65327	31632
4.742		56960	28377
4.766		67828	50563
4.839		23382	37936
4.865		18834	11033
4.883		30383	19170
4.917		152657	110370
4.941		290217	219406
4.99		85991	89209
5.027		33252	23635
5.062		205126	164195
5.088		117857	76386
5.111		275597	234111
5.185		455315	402546
5.302		7110	4302
5.327		130804	105857
5.373		228023	239195
5.444		33850	27755
5.527		538385	473152
5.595		593445	524271
5.644		218392	188749
5.751		110570	96007
5.783		6144	6622
5.833		2897	5700
5.901		6347	5092
5.95		355237	309750
5.981		7426	4842
6.003		5402	3151
6.07		3540	2261
6.109	DCB	29528940	24670880
6.286		4806	5826
6.561		21874	19757
7.559		864	15664
7.838		2126	3426
8.216		14928	22823

AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082

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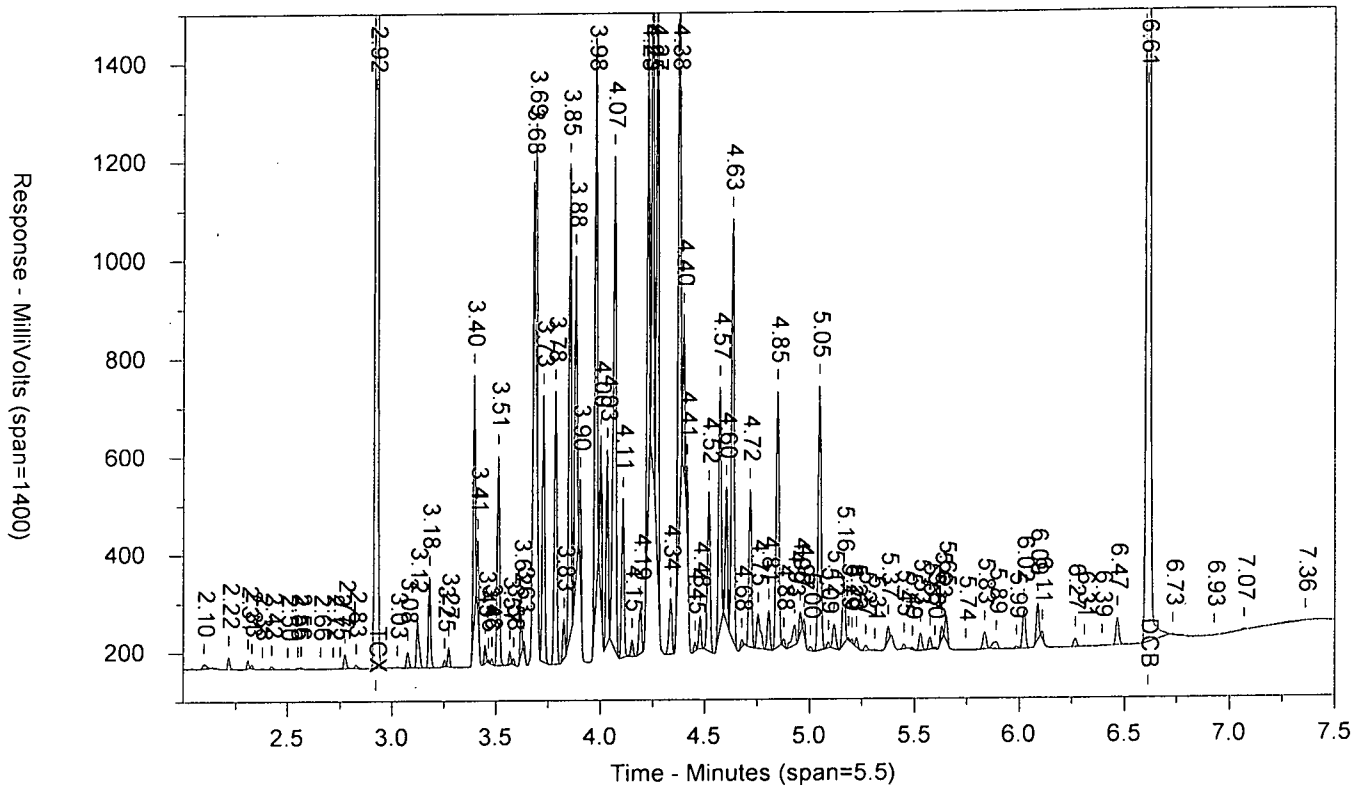

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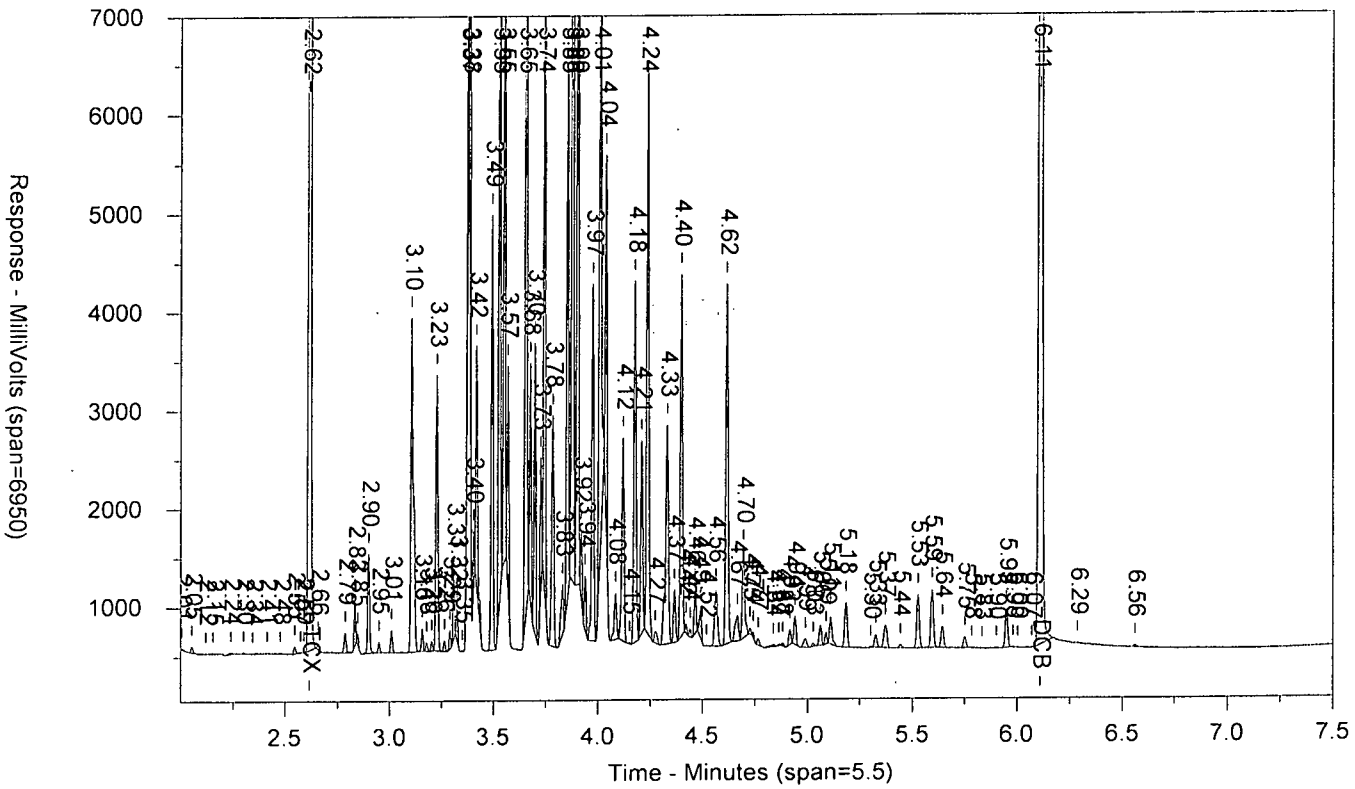

LANCASTER LABORATORIES

Sample Number: AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:12:00 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	7226676	63.592	TCX	2.616	43947670	63.572	TCX
6.613	4126763	59.968	DCB	6.109	29528940	60.612	DCB

Files:
Area File: 20pcbs17137001.015.RAW
Area File: 20pcbs17137001B.015.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:20:44 PM
File Reported On: 5/17/2017 at 7:20:54 PM

AR4841724A AAAR484AA ICAL 1713699999 10736 SW-846 8082

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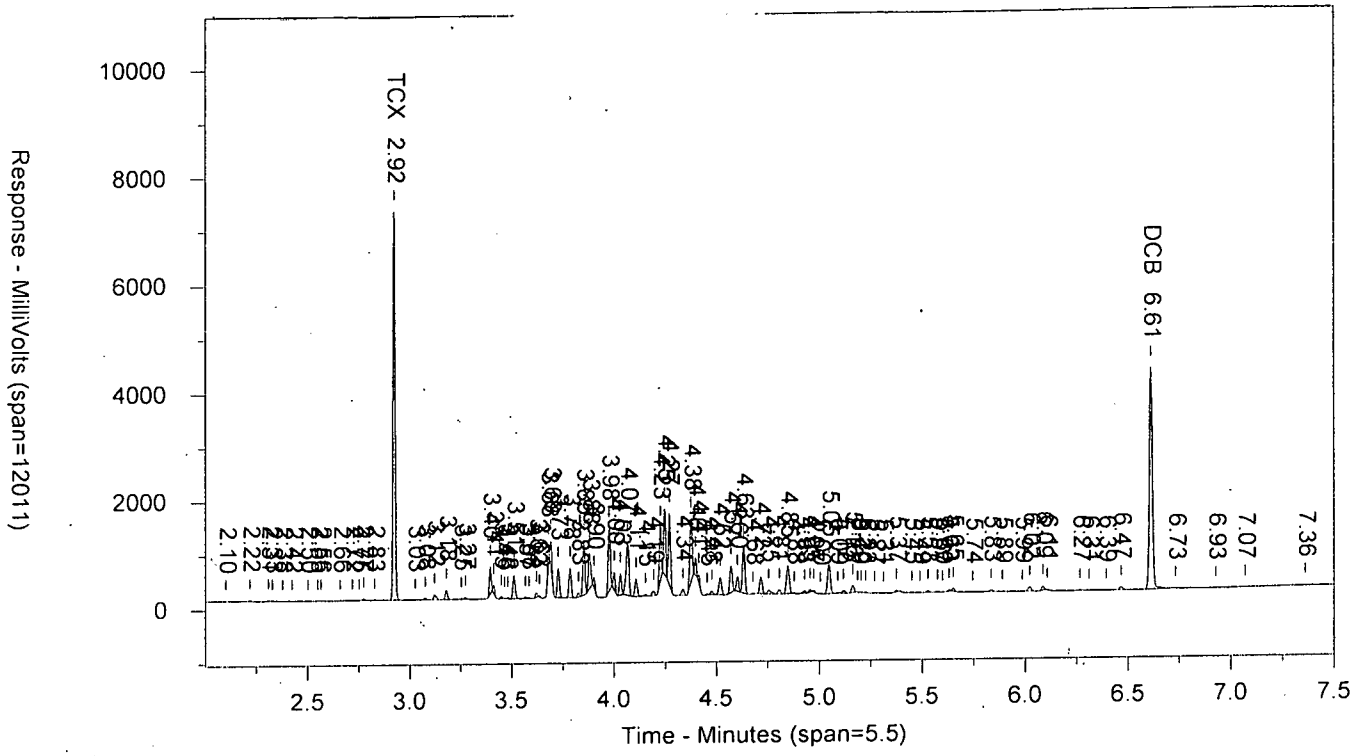

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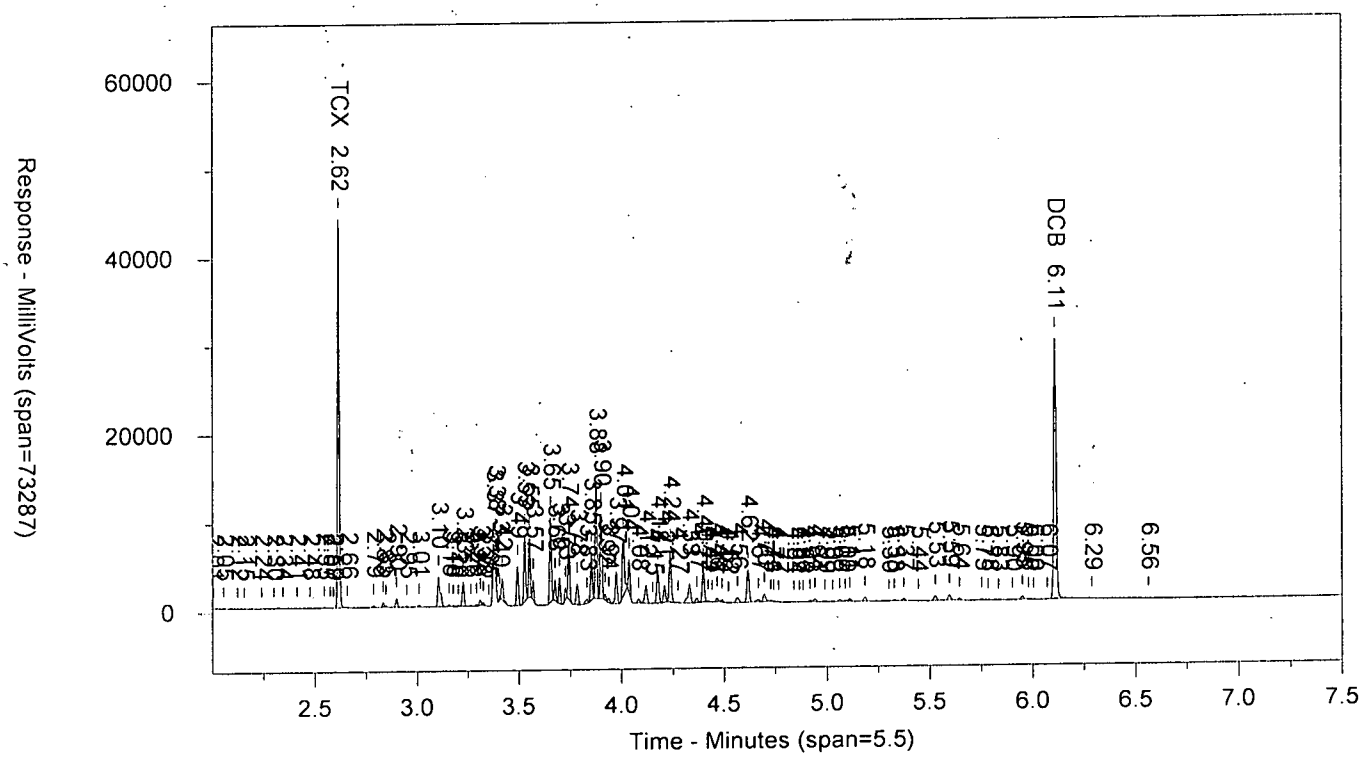

LANCASTER LABORATORIES

Sample Number: AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:23:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.016.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.102		4593	7084
2.217		33498	23447
2.309		13290	7935
2.328		11078	6668
2.382		1720	2296
2.423		3902	3284
2.47		689	424
2.503		2044	2473
2.547		1437	711
2.564		4738	3266
2.658		1369	1191
2.718		1337	708
2.751		960	645
2.773		22149	18445
2.828		3893	4280
2.923	TCX	9509188	6382889
3.024		2770	2214
3.076		77229	66225
3.122		127603	124575
3.18		351491	252262
3.252		18493	10271
3.273		78522	51955
3.312		1711	1131
3.394		929224	583136
3.411		282470	138992
3.447		74790	44027
3.463		15591	6989
3.48		25401	13759
3.51		871828	649774
3.544		2467	1178
3.565		33886	19324
3.583		41013	24433
3.62		159962	94210
3.633		41144	19296
3.678		751000	401965
3.689		862709	421682
3.725		1075715	827649
3.783		1100756	878164
3.824		155069	110291
3.852		1921107	1394040
3.878		1379196	1041861
3.9		365044	200549
3.975		2385746	1699783
3.999		625973	398179
4.03		781565	561750
4.065		1968562	1862230
4.106		665468	507653
4.135		3097	1291
4.151		63632	46599
4.191		171392	156793
4.223		1978232	1350399
4.244		2387278	1576526
4.267		2654071	1900057
4.334		214486	206041

RT A	Compound A	Height A	Area A
4.373		2372393	1993604
4.396		692000	375125
4.411		221591	121082
4.451		34959	24086
4.475		121796	92712
4.517		622823	570173
4.569		1007498	857474
4.601		547641	404895
4.631		1726522	1469141
4.676		36870	37768
4.715		610892	548990
4.753		131809	165879
4.804		146587	134350
4.845		1061090	993486
4.874		23061	14672
4.902		7379	5694
4.925		74530	65697
4.953		78830	58000
4.97		54122	34640
5.003		16350	13508
5.045		1143176	1067163
5.088		24996	19395
5.115		69256	74854
5.161		250614	233392
5.184		11187	5031
5.2		15638	8450
5.223		36777	29163
5.266		20628	20357
5.308		2678	1954
5.371		64932	53241
5.388		13140	10404
5.446		19896	16991
5.467		1342	580
5.486		8014	6264
5.526		44167	44141
5.572		51269	44617
5.598		7411	4788
5.628		65285	48211
5.649		54034	39562
5.831		64694	70528
5.888		28123	46112
5.984		8079	7806
6.02		96222	95477
6.085		87004	76607
6.106		25508	16630
6.264		32922	33707
6.31		1858	2940
6.391		1767	2222
6.433		931	672
6.464		76919	78675
6.565		1023	913
6.608	DCB	5542819	5734791
6.892		837	813
7.063		3964	4116
7.45		2661	70223
8.545		882	716
8.68		4314	5262

LANCASTER LABORATORIES

Sample Number: AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:23:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.016.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		1311	3102
2.054		81306	54354
2.157		6416	8440
2.185		3345	1655
2.203		11741	5347
2.241		16024	26868
2.301		29987	20834
2.365		3965	3162
2.411		12611	15149
2.478		9131	15814
2.53		8117	7715
2.547		66971	39360
2.573		8156	5086
2.591		5309	2342
2.616	TCX	56786070	33260090
2.659		134709	81776
2.787		478379	320739
2.833		584222	295727
2.847		236485	104914
2.899		1929623	1191020
2.949		139901	81298
3.01		426828	264267
3.105		6219541	5525114
3.156		449963	273490
3.178		214219	118189
3.202		187144	101921
3.226		5337686	3519511
3.264		306450	181367
3.291		225438	113958
3.309		1194423	634850
3.325		537473	249788
3.35		11796	5943
3.375		5587559	2664617
3.384		6804682	2608231
3.404		1036404	430936
3.417		5292533	3114385
3.492		8499526	5360734
3.527		14516990	8554099
3.55		13513160	7328765
3.568		4388659	2207160
3.653		18309420	11357940
3.675		5157966	2675008
3.696		5810601	3281080
3.725		2892498	1378988
3.742		13637050	7780507
3.783		4687711	3293150
3.831		953153	786418
3.853		10572020	6381212
3.875		25993180	16095300
3.9		18305070	11324790
3.919		1357384	630083
3.938		1134218	620167
3.973		6955386	4845141
4.008		12737840	9557564

RT B	Compound B	Height B	Area B
4.036		7791305	4201364
4.083		883634	670492
4.118		4169681	3070345
4.149		25797	13261
4.175		7284101	5400915
4.207		4095503	2762758
4.235		10969450	8064227
4.273		221433	211951
4.329		4344186	4118143
4.364		1077920	776805
4.396		7390967	5298636
4.42		199172	106121
4.438		86119	44711
4.463		820634	541948
4.489		565657	381321
4.563		1095988	1084044
4.615		7421871	5722627
4.664		344671	445142
4.694		1631230	1458476
4.726		125234	60063
4.741		109560	52383
4.764		133506	93699
4.824		5514	6154
4.837		19943	13282
4.864		35933	20873
4.881		60200	36238
4.915		290617	205189
4.939		547162	423613
4.989		160815	158904
5.025		62888	47280
5.06		275729	220265
5.086		220401	149677
5.109		518313	444895
5.183		578000	500356
5.301		11249	6755
5.325		250027	198374
5.371		449097	470208
5.443		60303	50355
5.525		646277	589500
5.594		732436	649246
5.643		311215	265988
5.749		222061	188358
5.781		10196	7215
5.901		8522	6219
5.949		515876	430881
5.979		10162	6933
6.001		6081	4085
6.044		1978	1919
6.072		3138	2728
6.108	DCB	38578290	33566540
6.201		8400	9032
6.235		9444	5132
6.557		29230	28882
6.726		2890	2478
6.861		2837	4876
7.247		1722	2040
7.357		1821	1610
7.441		1250	3191
7.555		1936	4045
7.628		1505	4812
8.213		15696	27337
8.321		1847	2164

AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082

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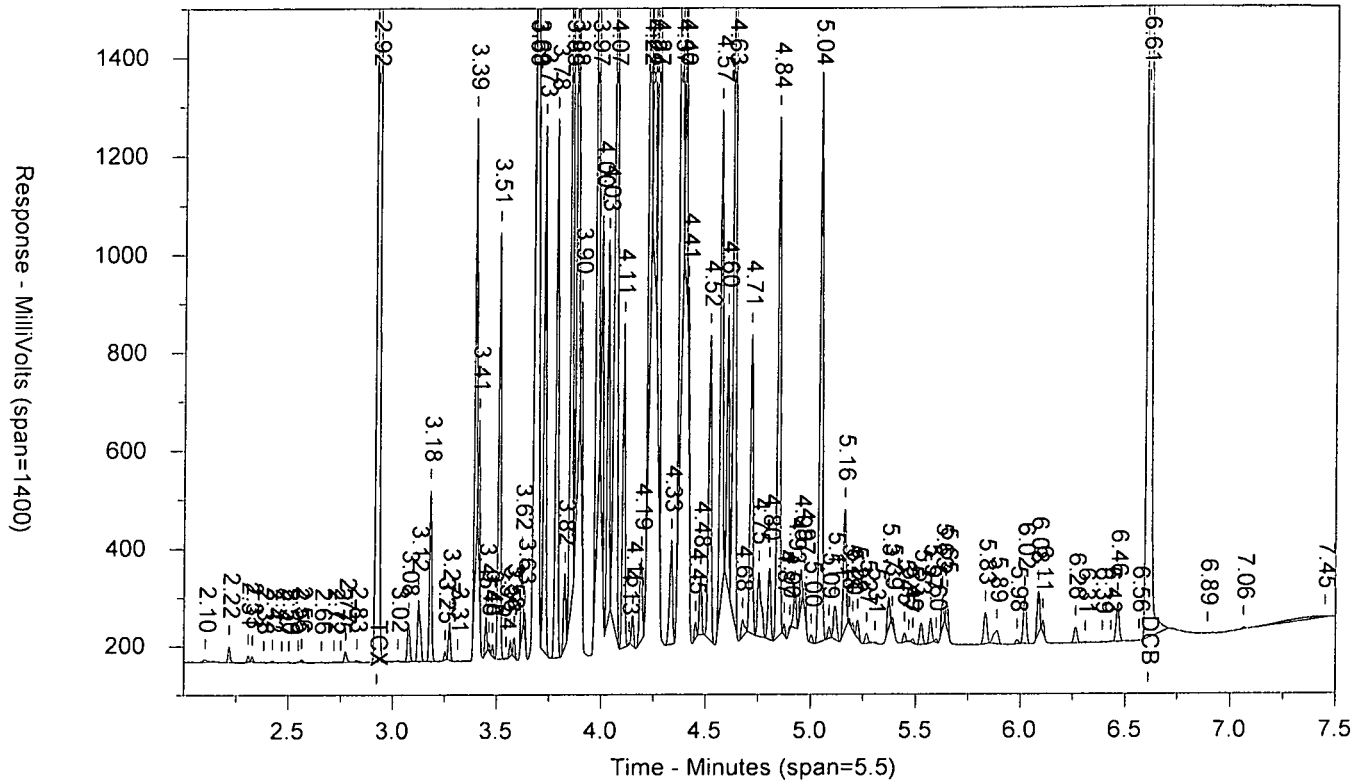

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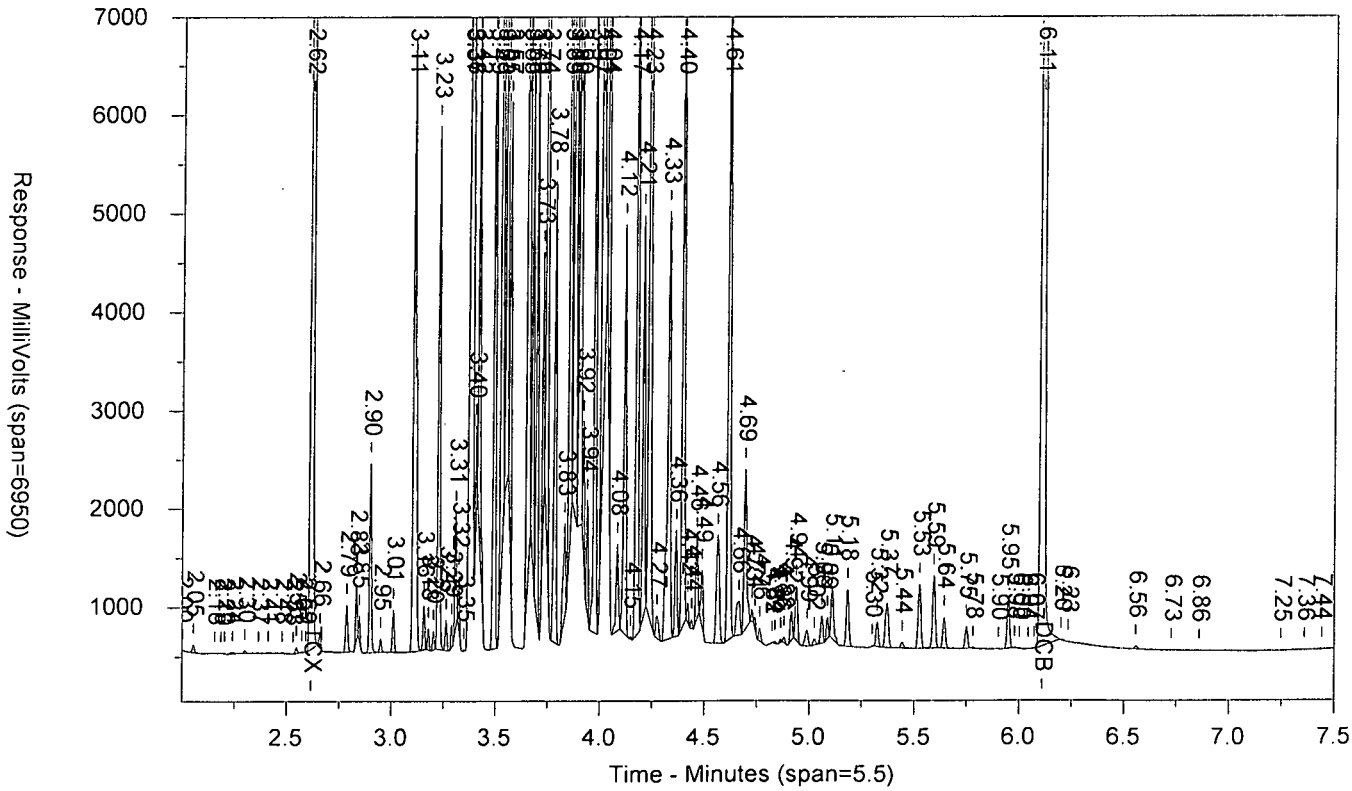

LANCASTER LABORATORIES

Sample Number: AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:23:20 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	9509188	83.678	TCX	2.616	56786070	82.143	TCX
6.608	5542819	80.545	DCB	6.108	38578290	79.187	DCB

Files:
Area File: 20pcbs17137001.016.RAW
Area File: 20pcbs17137001B.016.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:32:05 PM
File Reported On: 5/17/2017 at 7:32:10 PM

AR4851724A AAAR485AA ICAL 1713699999 10736 SW-846 8082

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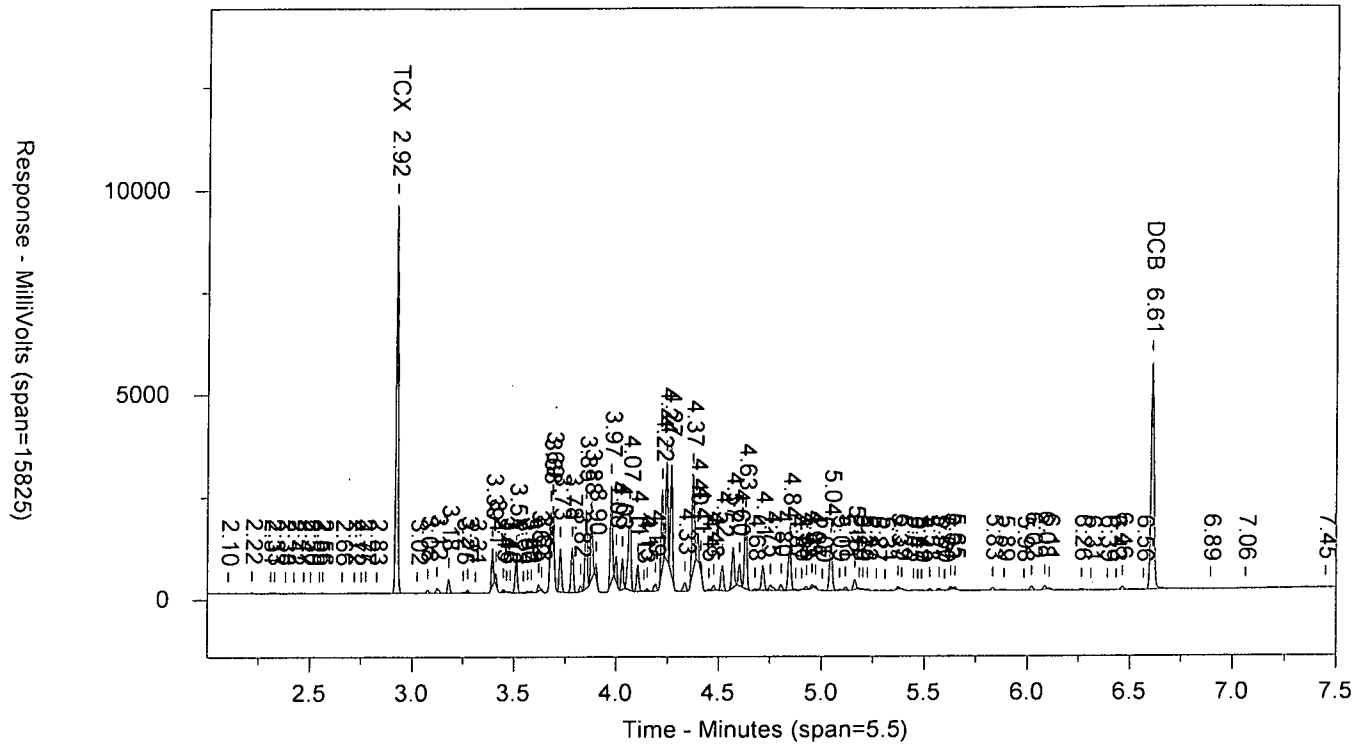

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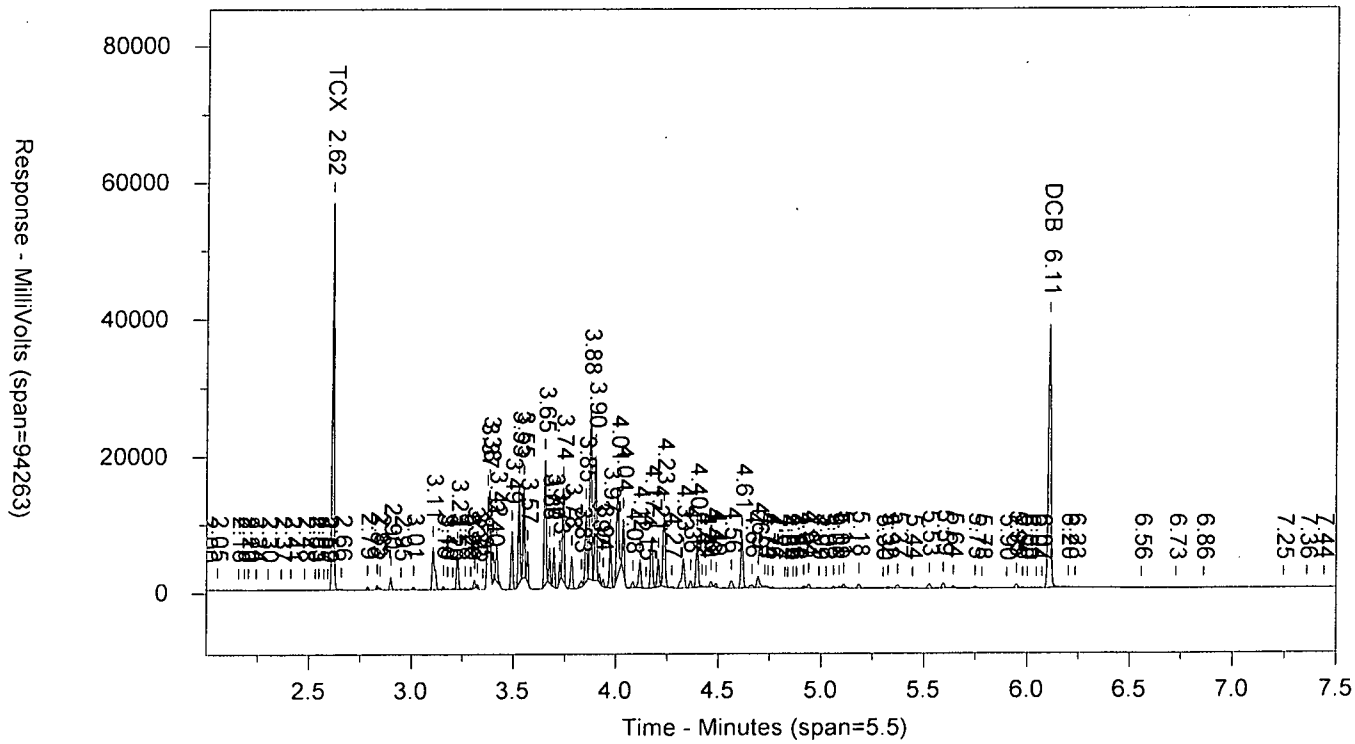

LANCASTER LABORATORIES

Sample Number: AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:34:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.017.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		10886	23496
2.217		1839	2275
2.309		15168	10983
2.378		1706	1758
2.424		5314	4549
2.55		1373	1154
2.658		1286	986
2.757		533	1360
2.774		38937	33321
2.828		6648	5962
2.923	TCX	469646	311766
3.075		1227	1010
3.122		6204	4143
3.19		6507	6987
3.252		1330	786
3.396		3824	2297
3.491		685	375
3.511		2219	1218
3.529		2577	2108
3.566		1487	778
3.586		2420	1578
3.621		829	406
3.665		9075	5995
3.694		2052	1405
3.729		6452	4785
3.784		3169	2312
3.853		101973	76695
3.881		25430	21830
3.978		62328	45913
4.002		3200	1986
4.032		4867	3520
4.067		26423	22595
4.108		4264	3627
4.17		1155	842
4.189		4391	3208
4.226		158940	114965
4.247		67405	41144
4.271		45220	31764
4.296		5647	3978
4.338		46194	38299
4.381		235994	242178
4.414		91259	72443
4.454		3466	2330
4.478		15303	11960
4.52		87831	80696
4.573		157523	139594
4.604		37849	25562
4.634		302959	270518
4.679		14088	9913
4.718		44709	36534
4.755		99229	102980
4.808		21721	18169
4.848		203718	201976
4.903		21450	17065

RT A	Compound A	Height A	Area A
4.927		4028	2450
4.956		74122	58271
4.972		32787	21605
5.004		2726	2090
5.048		156682	156863
5.091		19233	14905
5.117		21115	28238
5.164		206064	191571
5.186		10316	5267
5.204		9686	5438
5.225		3747	2576
5.269		7318	6340
5.375		76146	96587
5.45		9704	10865
5.489		7278	6542
5.529		5907	5735
5.573		42882	37705
5.6		5828	3812
5.631		32547	35703
5.746		914	1181
5.838		29206	27574
5.869		4532	4436
6.021		6550	7319
6.085		6890	6038
6.265		1737	1949
6.33		1659	1647
6.466		3719	3560
6.611	DCB	300948	331957
7.492		2450	90638
7.686		1023	6247
8.681		1486	1193

LANCASTER LABORATORIES

Sample Number: AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:34:47 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.017.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		11051	9701
2.158		7959	33791
2.24		16537	27262
2.342		2543	1523
2.369		2479	2479
2.394		1856	883
2.413		7554	8111
2.478		8297	14176
2.529		10974	8574
2.547		103940	67223
2.594		3015	1693
2.616	TCX	2782724	1654542
2.704		4200	7324
2.78		3251	1510
2.802		2939	1605
2.833		44607	42260
2.899		21245	36351
2.949		7694	4163
2.987		2181	1254
3.106		32606	57955
3.181		19295	27992
3.227		25795	15980
3.266		18605	12510
3.291		12798	6249
3.325		114422	72379
3.374		42308	42351
3.406		15568	7782
3.45		4855	2741
3.493		30588	22044
3.527		724921	437997
3.55		232682	134880
3.568		19756	8884
3.654		474916	287024
3.676		29890	15756
3.699		52306	36872
3.727		28359	13658
3.743		171074	97982
3.784		41858	31062
3.824		35334	30846
3.854		153788	90457
3.876		1675701	1080969
3.901		183766	104519
3.921		172927	93830
3.939		262163	154084
3.975		1463146	995474
4.006		600005	359533
4.024		351061	189444
4.085		114619	122824
4.119		553443	418734
4.176		1088486	797125
4.209		297917	215536
4.237		1979718	1452344
4.275		151100	145553
4.329		951254	812833

RT B	Compound B	Height B	Area B
4.365		147888	110793
4.398		1311884	939813
4.422		210695	136165
4.465		810169	608019
4.489		37857	21509
4.52		4432	3895
4.564		679529	710309
4.617		881164	713966
4.657		231784	199797
4.696		1442526	1380726
4.743		104444	66355
4.767		47607	34847
4.826		20322	28949
4.882		72139	62657
4.917		72457	48849
4.941		418958	346889
4.991		56911	48135
5.027		47816	37263
5.06		33071	29289
5.089		214360	157330
5.111		161947	142157
5.154		5108	2463
5.185		38202	35925
5.328		6821	4710
5.369		179296	178462
5.527		44754	37792
5.573		8648	6620
5.595		44501	34303
5.644		22235	22750
5.75		8667	7817
5.843		1981	2556
5.949		24816	21237
6.109	DCB	2060654	1950215
6.558		2676	8697
6.709		1667	3110
6.812		2605	7334
7.322		1629	3758
7.444		1624	4424
7.559		2243	6175
8.169		1973	781
8.214		16748	32679
8.425		1358	2261
8.598		1572	1487

AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082

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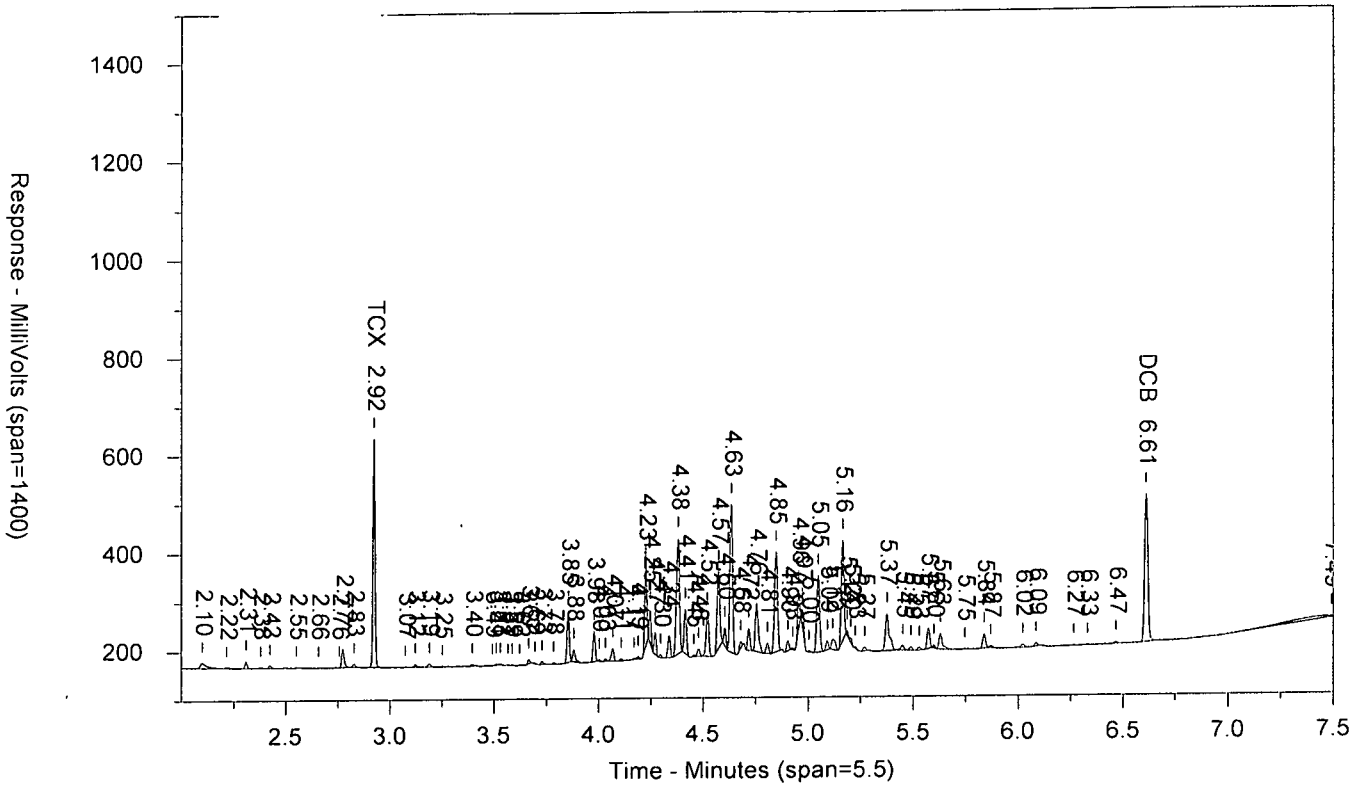

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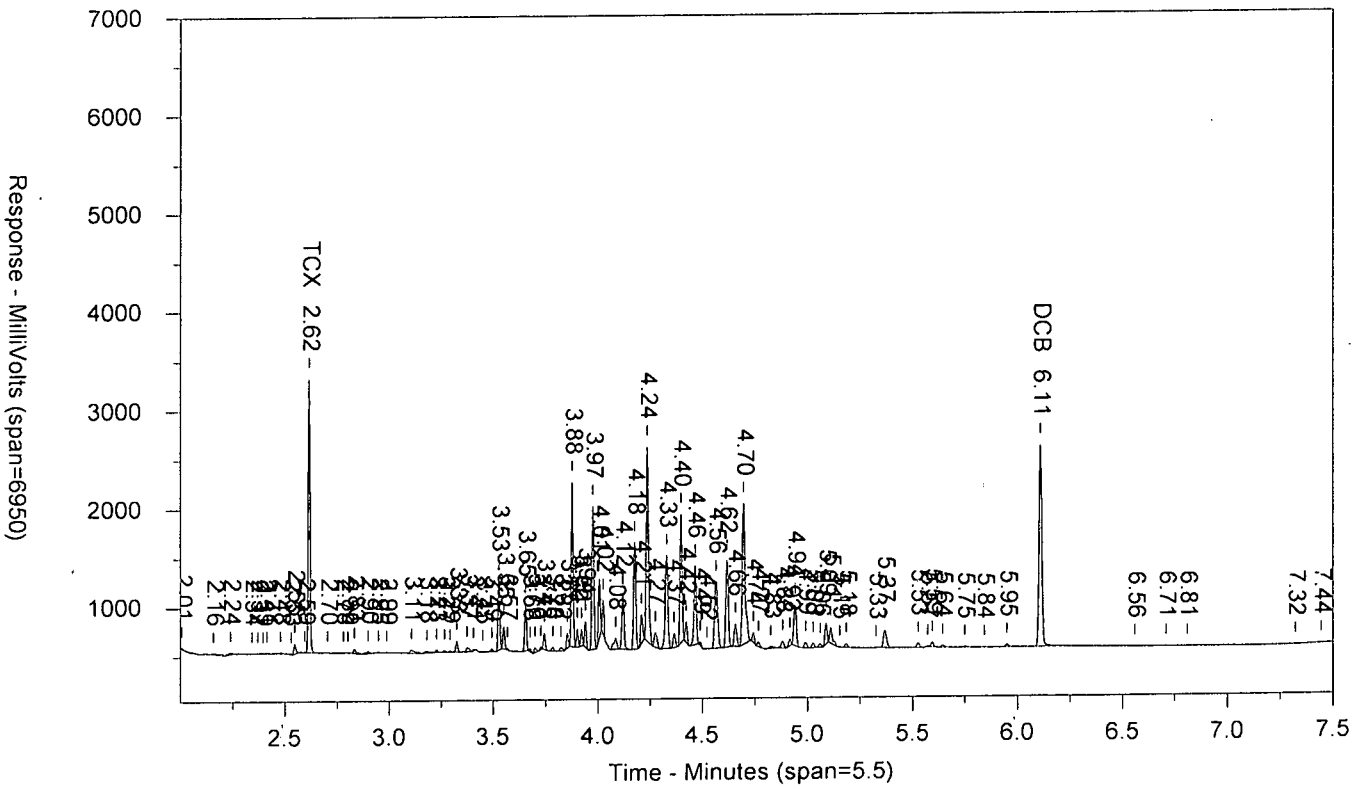

LANCASTER LABORATORIES

Sample Number: AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:34:47 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	469646	4.133	TCX	2.616	2782724	4.025	TCX
6.611	300948	4.373	DCB	6.109	2060654	4.23	DCB

Files:
Area File: 20pcbs17137001.017.RAW
Area File: 20pcbs17137001B.017.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
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AR5411724A AAAR541AA ICAL 1713699999 10736 SW-846 8082

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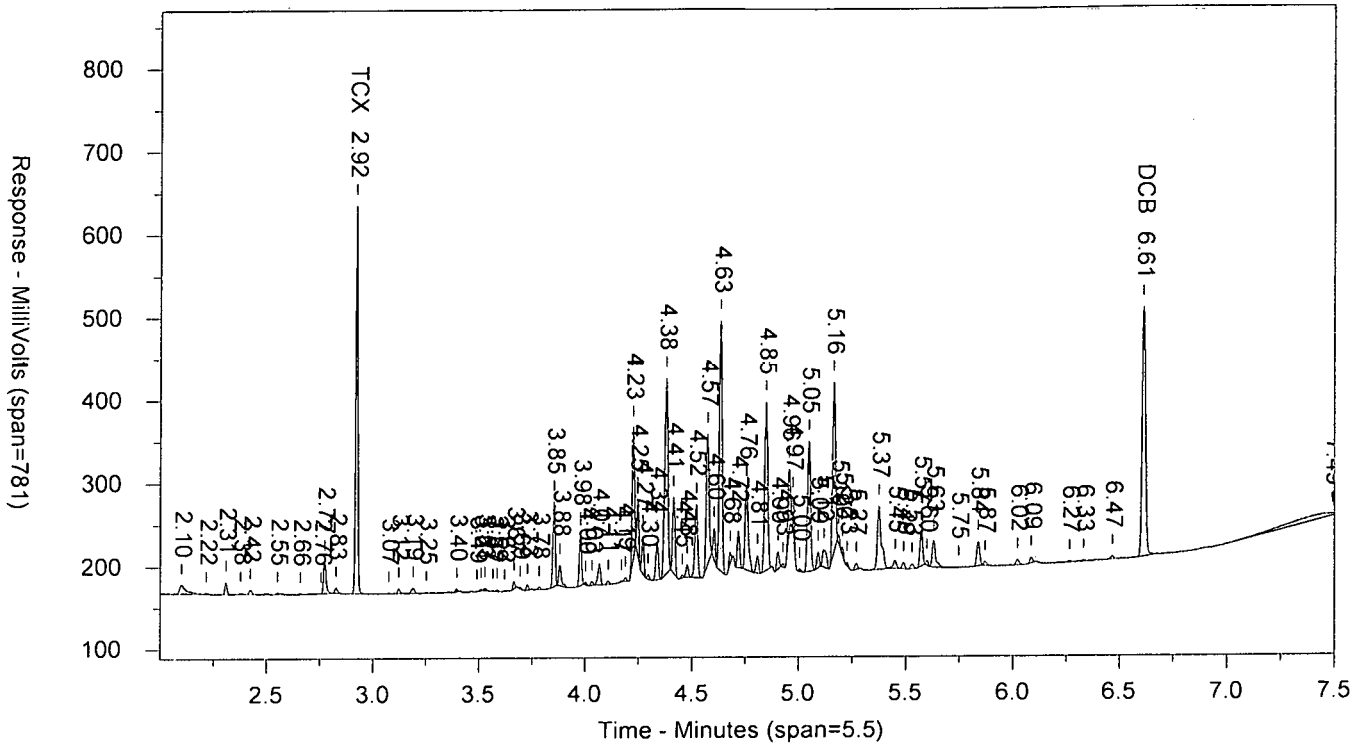

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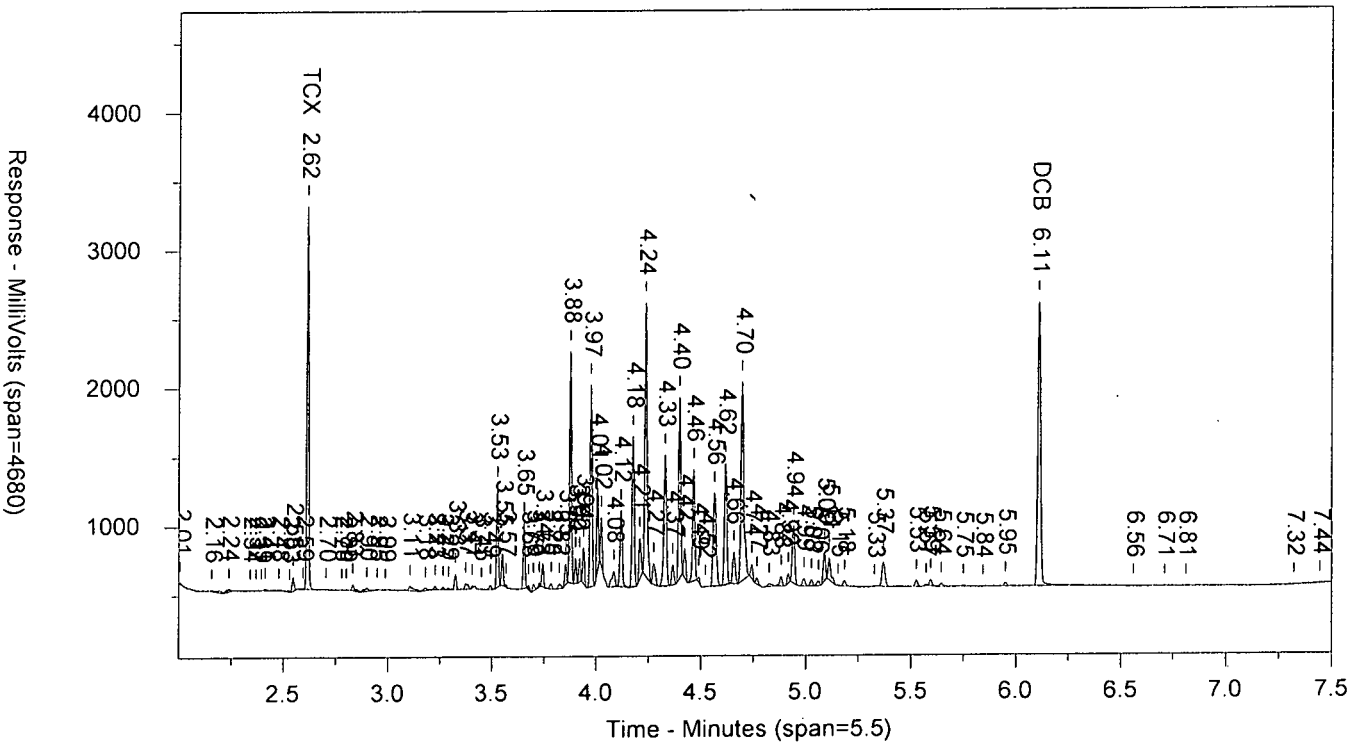

LANCASTER LABORATORIES

Sample Number: AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:46:17 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.018.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.102		11112	25765
2.218		3350	2993
2.309		9561	6232
2.377		1860	2464
2.426		2689	2812
2.548		1212	827
2.659		1355	945
2.752		867	488
2.774		35670	30486
2.828		2713	2173
2.923	TCX	891329	601538
3.075		1405	1364
3.123		12066	8068
3.182		4812	5652
3.253		2308	1641
3.279		666	555
3.396		7291	4389
3.464		2246	1989
3.511		5348	3185
3.568		3020	1752
3.586		4425	2923
3.622		1407	790
3.666		2914	1558
3.68		3500	1436
3.693		3350	2710
3.729		14953	11385
3.786		6559	5038
3.829		786	578
3.854		177239	136127
3.881		48073	36700
3.977		114931	85800
4.002		5780	3448
4.032		10695	7611
4.068		48793	44942
4.109		9757	7113
4.154		1233	686
4.189		9325	7105
4.226		305110	215431
4.247		119948	73361
4.271		88553	62670
4.295		4564	2919
4.337		85331	72241
4.38		437157	449308
4.414		160247	132898
4.455		6213	3897
4.477		27929	22309
4.52		161983	145212
4.571		284736	262849
4.603		65605	46242
4.633		596274	511434
4.679		25515	18123
4.693		12073	6130
4.717		86514	69494
4.755		183692	189658

RT A	Compound A	Height A	Area A
4.806		38620	33410
4.847		393671	377914
4.876		7433	4380
4.902		39480	31786
4.927		7567	4426
4.955		138336	109214
4.973		62105	42065
5.004		5058	3879
5.047		309698	296067
5.091		33655	27831
5.117		38393	52977
5.164		398325	362995
5.187		21954	10024
5.203		12622	7182
5.226		9659	6325
5.27		13485	11790
5.375		134935	179364
5.425		1129	658
5.449		17192	15144
5.489		14747	13057
5.53		7813	7721
5.574		80910	71420
5.599		11267	7482
5.63		58906	65845
5.838		53986	50332
5.87		8686	8478
6.022		11916	12433
6.087		13198	11732
6.108		2524	1797
6.268		3061	3060
6.466		7960	8219
6.569		745	986
6.612	DCB	587785	621306
7.088		215	1623
7.493		952	23244
8.679		3512	4569

LANCASTER LABORATORIES

Sample Number: AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:46:17 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.018.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		12116	12913
2.054		8180	6439
2.158		3395	2519
2.239		14669	23303
2.412		7992	10618
2.477		10994	23670
2.526		12108	10738
2.547		101788	67198
2.593		2675	1017
2.615	TCX	5567068	3241038
2.784		5688	5136
2.833		77579	56987
2.898		29120	28637
2.947		14413	9940
3.105		51051	50570
3.179		20012	15460
3.202		3483	2286
3.227		40512	27225
3.264		38621	23386
3.291		25244	13458
3.309		7429	3151
3.325		50680	28384
3.375		37583	17957
3.384		24496	8510
3.405		21054	9334
3.418		61421	40391
3.493		58067	38231
3.527		1299688	802293
3.55		438729	250624
3.568		42825	18177
3.654		839305	527746
3.677		67649	34791
3.698		95811	63892
3.727		75889	35310
3.743		314516	180572
3.784		82268	60620
3.824		63769	58191
3.854		286946	167274
3.875		3060571	2017712
3.901		343580	191538
3.921		312575	174805
3.939		528732	312912
3.975		2766149	1833023
4.006		1089804	660616
4.024		674857	350396
4.084		217971	191080
4.119		1032545	776043
4.176		2131657	1547957
4.209		612041	428659
4.236		3737878	2753842
4.274		275118	270887
4.329		1769741	1512920
4.365		276176	206902
4.397		2470128	1767883

RT B	Compound B	Height B	Area B
4.422		397437	253696
4.464		1458073	1126610
4.489		76822	43252
4.564		1335614	1311140
4.617		1682300	1372686
4.656		433120	377695
4.696		2736833	2628196
4.743		197995	126960
4.766		89485	60475
4.825		33425	43669
4.883		140261	124559
4.917		137896	93933
4.941		821670	652008
4.991		110239	93565
5.027		92159	70720
5.059		63560	54915
5.089		429225	308304
5.111		305888	266800
5.153		8529	4901
5.185		70793	65284
5.327		14478	11682
5.368		352730	346447
5.474		2331	2087
5.526		81445	70603
5.572		14170	9979
5.594		85439	69178
5.643		39616	35094
5.75		17959	14265
5.949		49274	42792
6.109	DCB	3897569	3649784
6.556		2822	2355
6.817		2197	3204
7.39		1698	1880
7.629		2024	34134
8.217		15004	26375

AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082

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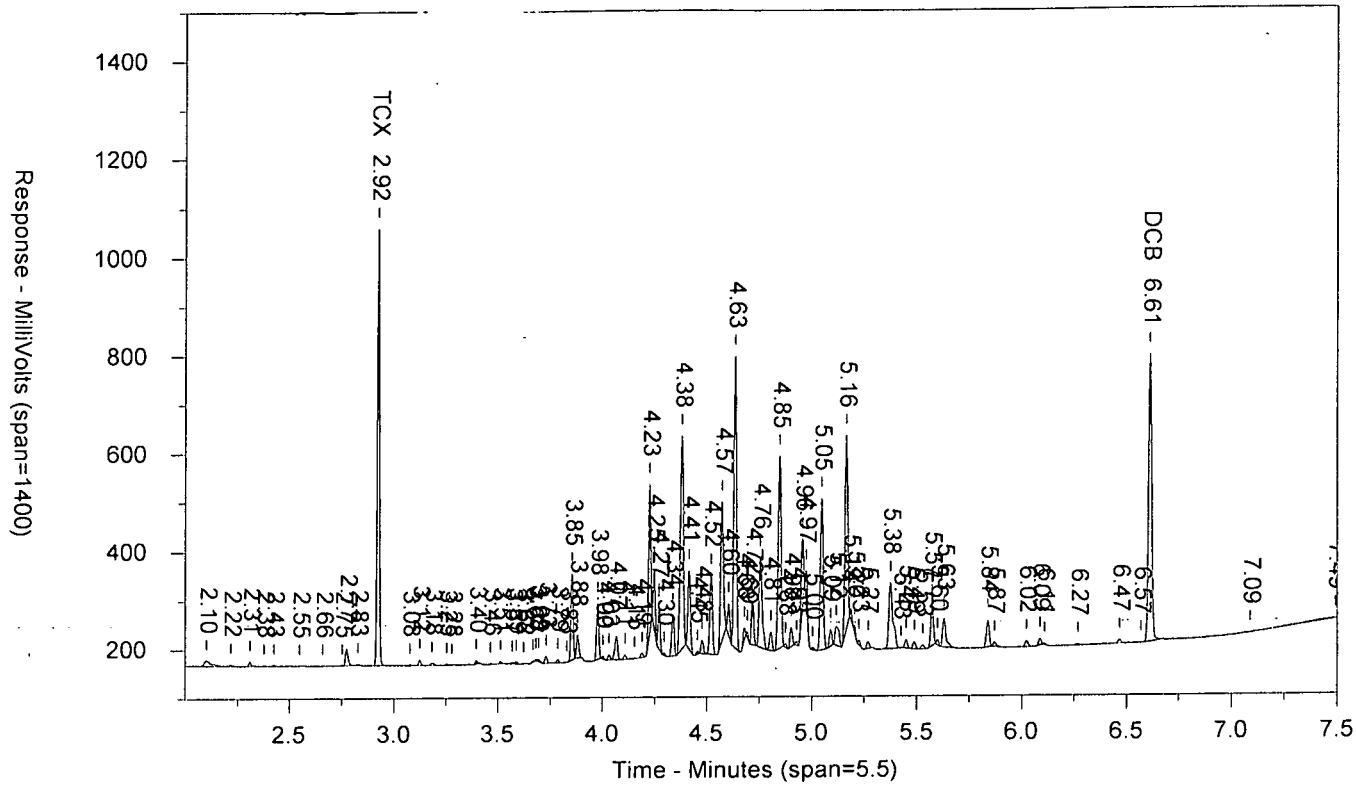

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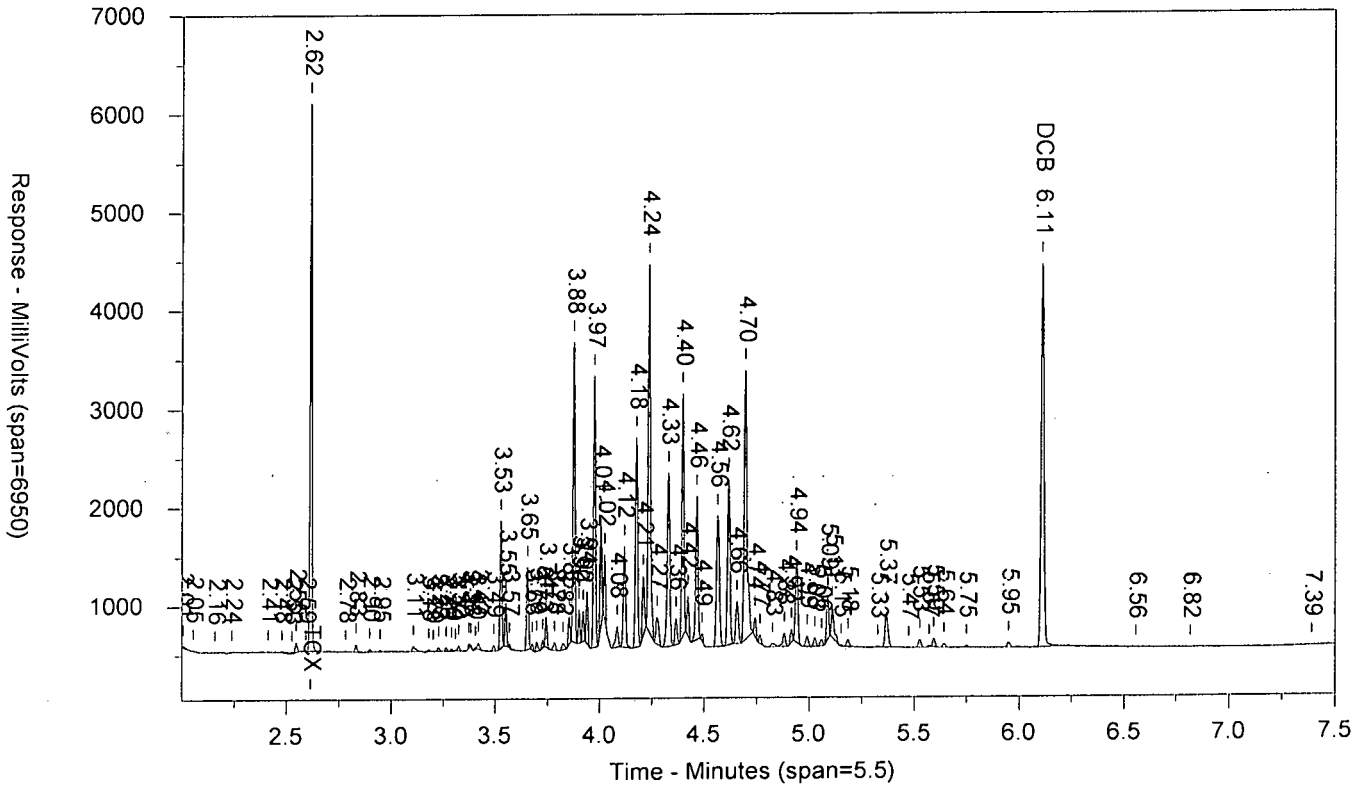

LANCASTER LABORATORIES

Sample Number: AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:46:17 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	891329	7.843	TCX	2.615	5567068	8.053	TCX
6.612	587785	8.541	DCB	6.109	3897569	8	DCB

Files:
Area File: 20pcbs17137001.018.RAW
Area File: 20pcbs17137001B.018.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 7:55:01 PM
File Reported On: 5/17/2017 at 7:55:11 PM

AR5421724A AAAR542AA ICAL 1713699999 10736 SW-846 8082

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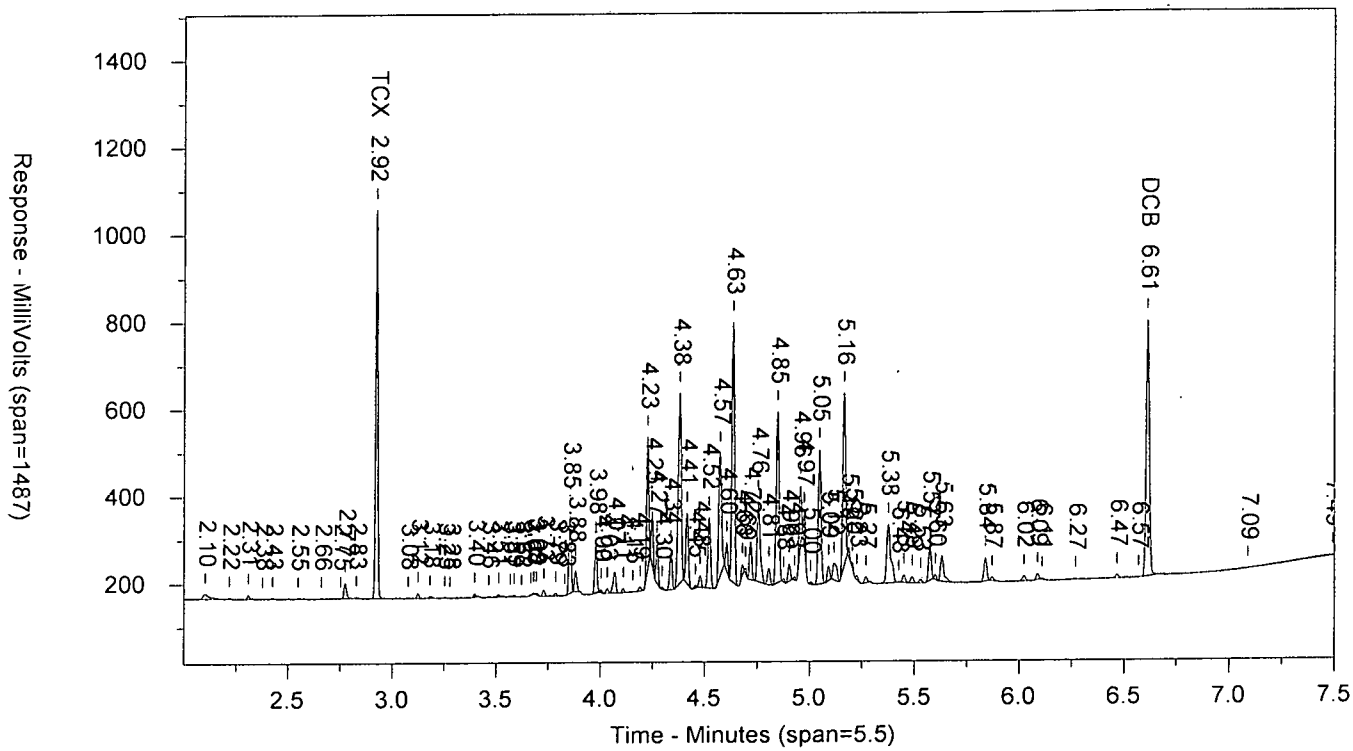

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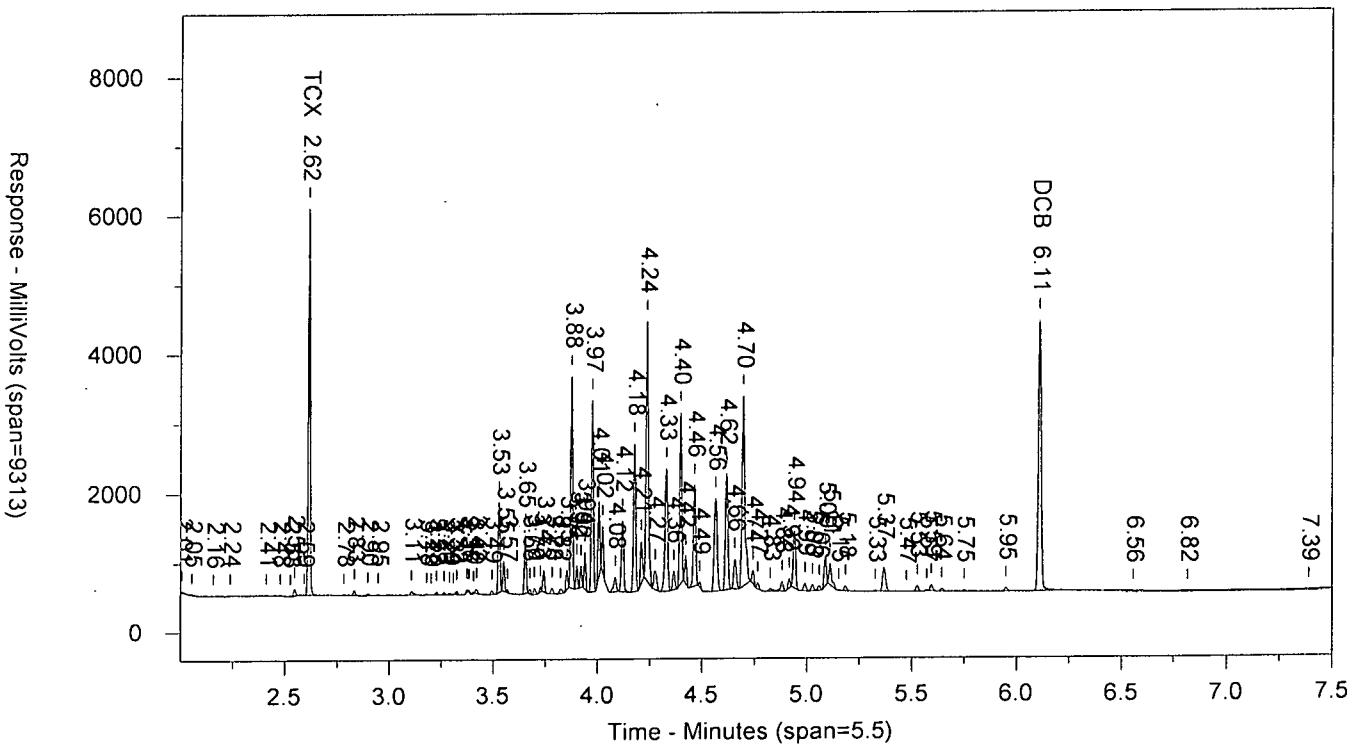

LANCASTER LABORATORIES

Sample Number: AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:57:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.019.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		9388	20820
2.217		8192	6119
2.31		7625	4672
2.328		2519	1391
2.38		1444	1721
2.425		4543	3663
2.553		954	785
2.657		814	736
2.774		33907	28830
2.829		5127	4949
2.923	TCX	2258999	1493522
3.076		3773	3108
3.123		30402	20475
3.182		10558	11271
3.253		4743	2997
3.274		1174	853
3.396		18511	11338
3.412		5152	2727
3.466		5330	4320
3.511		14051	8892
3.567		7172	4185
3.586		12180	7435
3.622		3592	3901
3.665		5377	3097
3.68		9798	4633
3.692		7572	6291
3.728		39894	29891
3.785		15534	11868
3.827		2068	1236
3.853		403825	303006
3.88		107850	102706
3.977		251740	195006
4.001		14867	8614
4.032		29031	19947
4.067		112588	108598
4.108		23024	18201
4.136		1516	800
4.153		3385	1927
4.188		20543	16043
4.226		689965	484735
4.245		257739	157798
4.27		193606	141623
4.336		186165	162483
4.379		1081605	1045801
4.413		368483	296832
4.454		14578	9915
4.477		67310	52455
4.519		368559	330063
4.571		686384	615938
4.602		163372	107682
4.633		1443245	1224492
4.678		66421	45984
4.692		21243	11647
4.717		192259	154675

RT A	Compound A	Height A	Area A
4.754		415415	428331
4.805		86550	77498
4.846		944204	876808
4.874		18399	10707
4.902		87581	73724
4.927		18121	10134
4.955		320144	245945
4.971		143512	92967
5.003		11624	8807
5.047		758464	713914
5.09		79498	62798
5.116		85290	117608
5.163		963852	862568
5.185		40418	18958
5.203		30100	15230
5.225		26715	17388
5.269		31874	27351
5.373		308306	414114
5.423		2213	1063
5.448		37759	35537
5.488		33871	31551
5.528		17126	16936
5.573		176130	165158
5.6		25078	17246
5.629		130868	147206
5.837		119583	114542
5.868		20902	20201
6.021		26852	27439
6.086		29187	24992
6.107		6115	3941
6.265		7501	6945
6.392		841	968
6.465		17103	17663
6.61	DCB	1367514	1472703
7.072		1279	1973
7.56		2174	54731

LANCASTER LABORATORIES

Sample Number: AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:57:49 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.019.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		11427	9609
2.053		19393	13196
2.155		3889	4965
2.241		19262	46173
2.343		1440	1184
2.412		4838	5719
2.479		6303	8853
2.547		94106	60037
2.616	TCX	13421420	8024805
2.785		21125	16783
2.833		186732	125794
2.899		69097	62995
2.949		34270	20273
2.988		1602	772
3.009		7665	5453
3.105		132505	135826
3.178		45690	30910
3.203		6324	3125
3.227		103610	68693
3.264		103281	61555
3.291		61909	32641
3.31		15782	7273
3.325		106947	60384
3.375		86084	40980
3.384		57539	20739
3.405		43588	21003
3.418		154982	105859
3.493		137473	89986
3.527		2966112	1796834
3.55		993798	572108
3.568		94678	40923
3.585		15235	8493
3.654		1919756	1190084
3.676		139493	72852
3.698		223836	146137
3.727		179267	87678
3.743		679391	393631
3.783		196197	146860
3.823		155022	139443
3.853		672848	381230
3.876		7227687	4681049
3.901		779342	429874
3.92		674814	372617
3.939		1065973	645094
3.974		6229853	4246805
4.006		2436783	1483152
4.023		1396710	761003
4.084		475479	376566
4.119		2398734	1759294
4.175		4960347	3659814
4.208		1314596	951831
4.236		8864505	6479641
4.274		645643	620405
4.328		4172151	3508653

RT B	Compound B	Height B	Area B
4.364		622376	474781
4.397		6007735	4223100
4.421		877964	554629
4.464		3438030	2598735
4.489		162056	91649
4.564		3085415	3038204
4.616		4310358	3361586
4.656		982643	856896
4.695		6390798	6255188
4.742		436378	291990
4.766		203137	139291
4.825		78130	90498
4.882		322055	292180
4.916		328827	218039
4.94		1953657	1521397
4.991		261448	213386
5.026		207625	168724
5.059		156464	131042
5.088		966074	706509
5.11		592918	409019
5.128		78104	41283
5.151		16569	9776
5.183		154421	132022
5.303		2353	1444
5.326		35164	27523
5.368		801310	818176
5.469		3535	3917
5.526		176865	151508
5.571		32941	22904
5.595		173931	143419
5.643		86990	75091
5.75		43449	41959
5.902		2738	2335
5.949		116377	98149
6.108	DCB	9480798	8756876
6.557		8171	7307
7.256		1113	1231
7.391		1647	885
7.434		2173	2437
7.497		1880	3738
7.618		1794	12092
8.215		16618	30952

AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082

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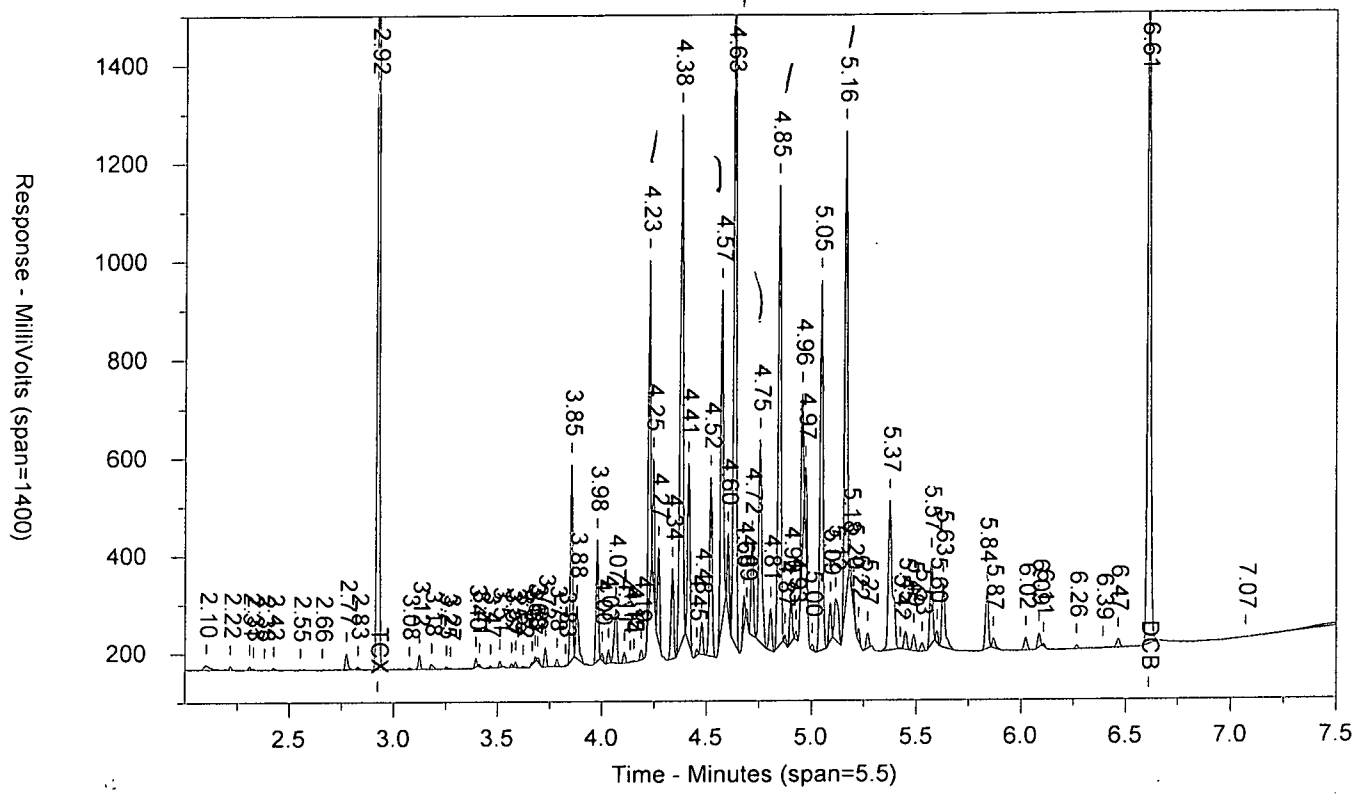

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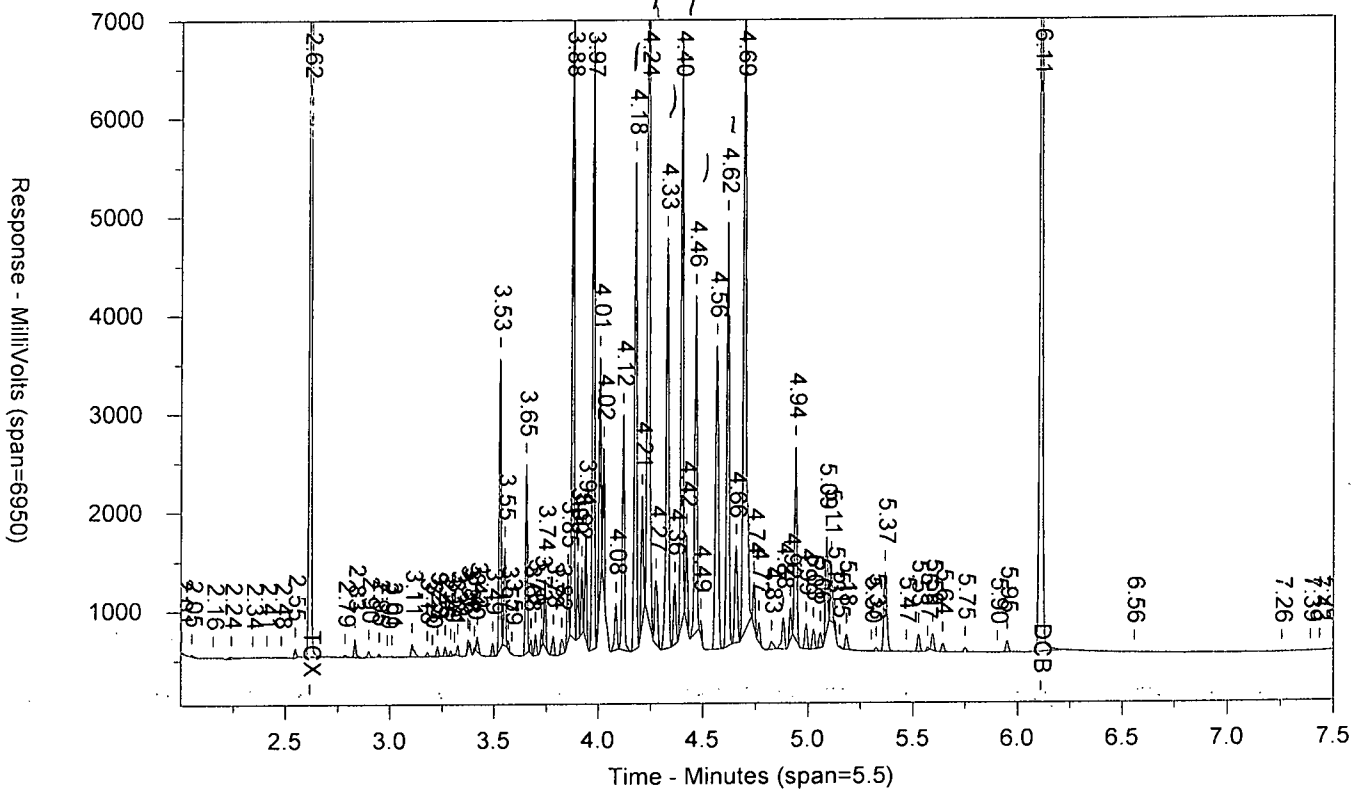

LANCASTER LABORATORIES

Sample Number: AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 7:57:49 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	2258999	19.878	TCX	2.616	13421420	19.415	TCX
6.61	1367514	19.872	DCB	6.108	9480798	19.461	DCB

Files:
Area File: 20pcbs17137001.019.RAW
Area File: 20pcbs17137001B.019.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:06:32 PM
File Reported On: 5/17/2017 at 8:06:43 PM

AR5431724A AAAR543AA ICAL 1713699999 10736 SW-846 8082

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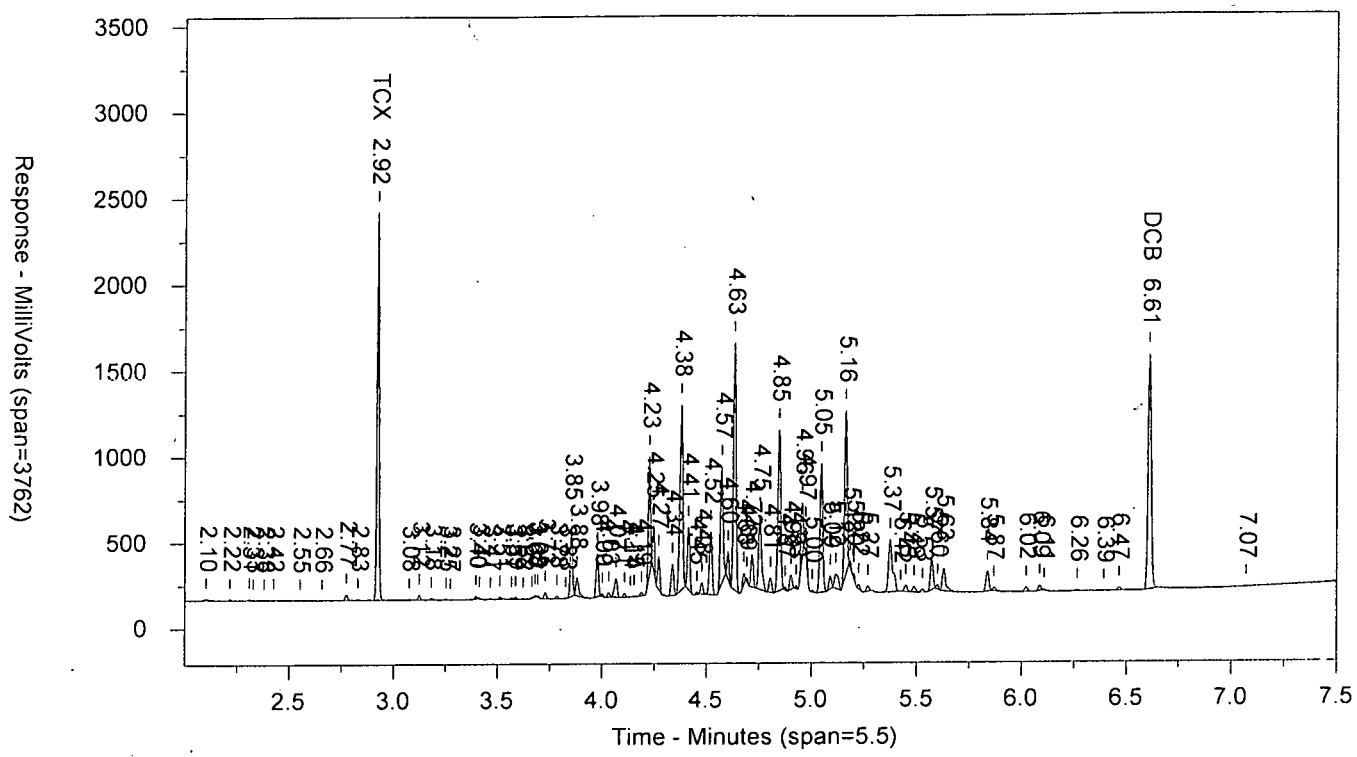

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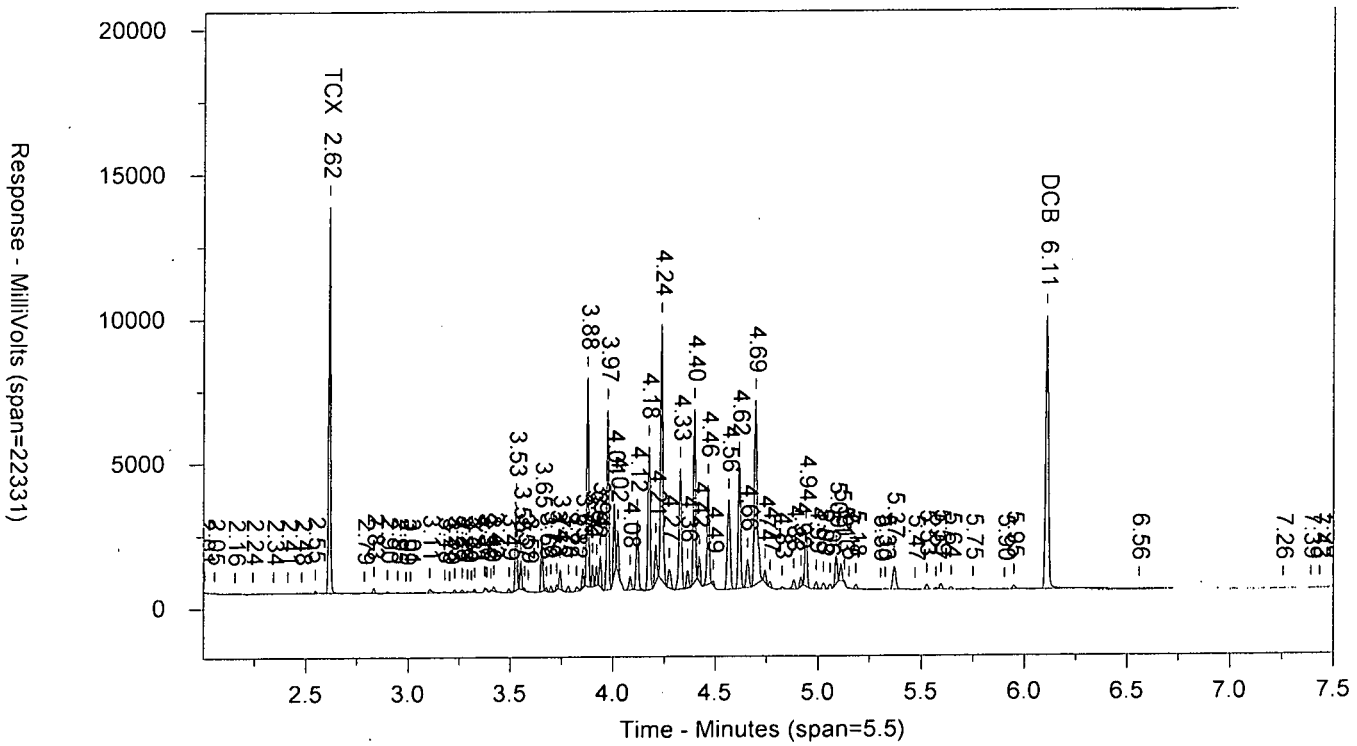

LANCASTER LABORATORIES

Sample Number: AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:09:12 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.020.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		10893	16261
2.217		15840	11775
2.309		11511	7045
2.328		5012	3087
2.378		1789	2240
2.423		4888	4279
2.502		1194	1303
2.549		2173	3808
2.66		1269	1822
2.752		1047	600
2.774		35976	30861
2.827		5516	5479
2.923	TCX	4622428	3049151
3.025		1325	637
3.075		6334	5719
3.123		62370	42428
3.181		20468	18131
3.253		9854	6243
3.274		2297	1357
3.395		35703	21314
3.412		9815	4951
3.465		9244	8474
3.511		29492	22808
3.566		15376	8875
3.585		20632	12582
3.622		4838	3183
3.679		23634	11955
3.692		15500	12369
3.728		70887	52340
3.785		30824	24948
3.826		4015	2436
3.852		753146	575967
3.879		198787	186266
3.977		505557	376647
4.001		28866	16947
4.031		52800	38079
4.066		209308	203563
4.106		44927	35681
4.135		3439	1897
4.153		6449	3948
4.188		39069	31310
4.225		1397875	986296
4.246		569564	347253
4.271		376252	278619
4.337		361600	315906
4.378		2073246	2088930
4.414		711435	586208
4.453		28228	18666
4.476		123671	98671
4.519		714338	637132
4.571		1454115	1280410
4.603		344634	222613
4.632		2930175	2488037
4.678		108468	78910

RT A	Compound A	Height A	Area A
4.691		39815	22729
4.716		399436	311468
4.754		849024	843684
4.806		163154	148453
4.847		1875048	1751059
4.875		32686	19003
4.902		165383	138162
4.927		32811	19296
4.954		669621	494398
4.97		291032	187266
5.003		22691	17129
5.047		1628295	1483882
5.09		153726	123954
5.117		173931	227162
5.163		2001599	1758912
5.185		88249	43036
5.202		53422	30192
5.225		44145	27903
5.267		61691	52151
5.288		8136	4461
5.373		610917	814479
5.424		4562	2310
5.448		76463	65490
5.487		65425	60634
5.527		34276	32445
5.572		367441	331086
5.598		49650	33711
5.629		261449	289654
5.838		223253	216316
5.868		37268	38354
6.022		52656	55746
6.086		58070	51787
6.108		12812	8410
6.265		13430	13456
6.327		987	868
6.389		1119	968
6.465		36608	36283
6.611	DCB	2754543	2912875
7.067		2607	3133
7.535		1069	13886
7.755		865	2143
8.047		1008	3167
8.683		5068	6634

LANCASTER LABORATORIES

Sample Number: AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:09:12 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.020.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.007		17620	17377
2.054		38456	27392
2.155		4019	4695
2.188		9191	14934
2.24		17793	31823
2.299		1977	1315
2.344		1496	1230
2.411		8677	12040
2.478		5551	3978
2.528		12423	10743
2.547		100387	66202
2.575		3152	1620
2.616	TCX	27652480	16267940
2.703		4716	6392
2.787		36548	30574
2.833		356088	230133
2.9		121313	92024
2.949		68635	39434
3.01		15470	11912
3.106		237056	232272
3.158		5166	2089
3.179		67823	44406
3.203		10305	5678
3.228		186176	124481
3.264		164187	96469
3.291		116500	64133
3.31		38852	17929
3.325		65798	35579
3.375		161585	75093
3.385		107011	42685
3.405		101611	43389
3.419		258195	193988
3.493		256194	164512
3.527		5679534	3483755
3.55		1884138	1042507
3.568		182580	79710
3.586		21876	11237
3.654		3898764	2298147
3.676		253902	133868
3.698		390506	263773
3.727		262551	136846
3.743		1321371	780818
3.783		368159	270181
3.824		286717	257782
3.854		1275704	739915
3.876		14644700	9312075
3.901		1548542	851086
3.92		1320641	716244
3.939		2014626	1191342
3.974		13163310	8426518
4.006		4826652	2957029
4.024		2817747	1470969
4.085		919092	684965
4.119		4750180	3462626

RT B	Compound B	Height B	Area B
4.175		10312280	7450167
4.208		2749393	1877903
4.236		18488900	13253560
4.274		1271830	1205357
4.328		8373806	6993500
4.365		1243214	941356
4.397		12655280	8709486
4.421		1713117	1089020
4.464		6931070	5208720
4.489		367058	206310
4.525		3811	3352
4.564		6625378	6093458
4.616		9172670	6996697
4.656		1990523	1700257
4.695		13649340	12767360
4.742		949018	593039
4.765		400240	271787
4.825		159714	185745
4.865		23669	13859
4.882		599034	444047
4.917		610418	413692
4.941		3814174	3079520
4.991		484338	420813
5.026		399824	328461
5.058		306344	259388
5.088		1996266	1446288
5.11		1188487	781885
5.127		155889	78469
5.15		35681	20556
5.184		327861	277829
5.247		6090	5253
5.301		4486	2332
5.326		68338	53436
5.368		1631807	1603161
5.47		6045	6191
5.526		367067	315814
5.57		68840	46475
5.594		378041	314940
5.643		179295	155558
5.75		84635	70893
5.783		5055	5823
5.903		3988	2791
5.949		230784	197382
5.982		5006	3121
6.067		2417	1919
6.108	DCB	20216660	17008200
6.285		5535	8037
6.556		12835	12265
7.327		1831	3407
7.563		1405	4021
7.613		2595	4529
7.701		1029	3163
8.216		15737	28067
8.442		1225	724

AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082

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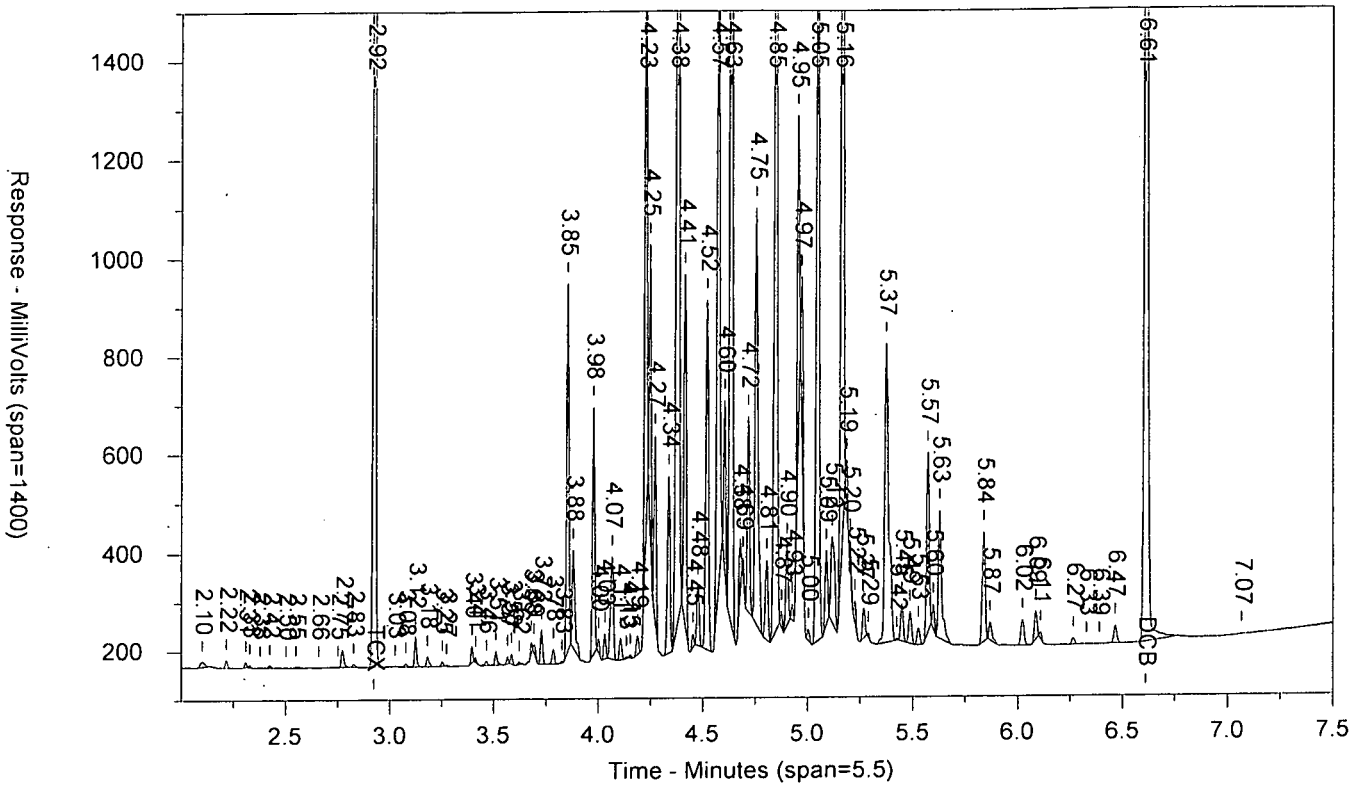

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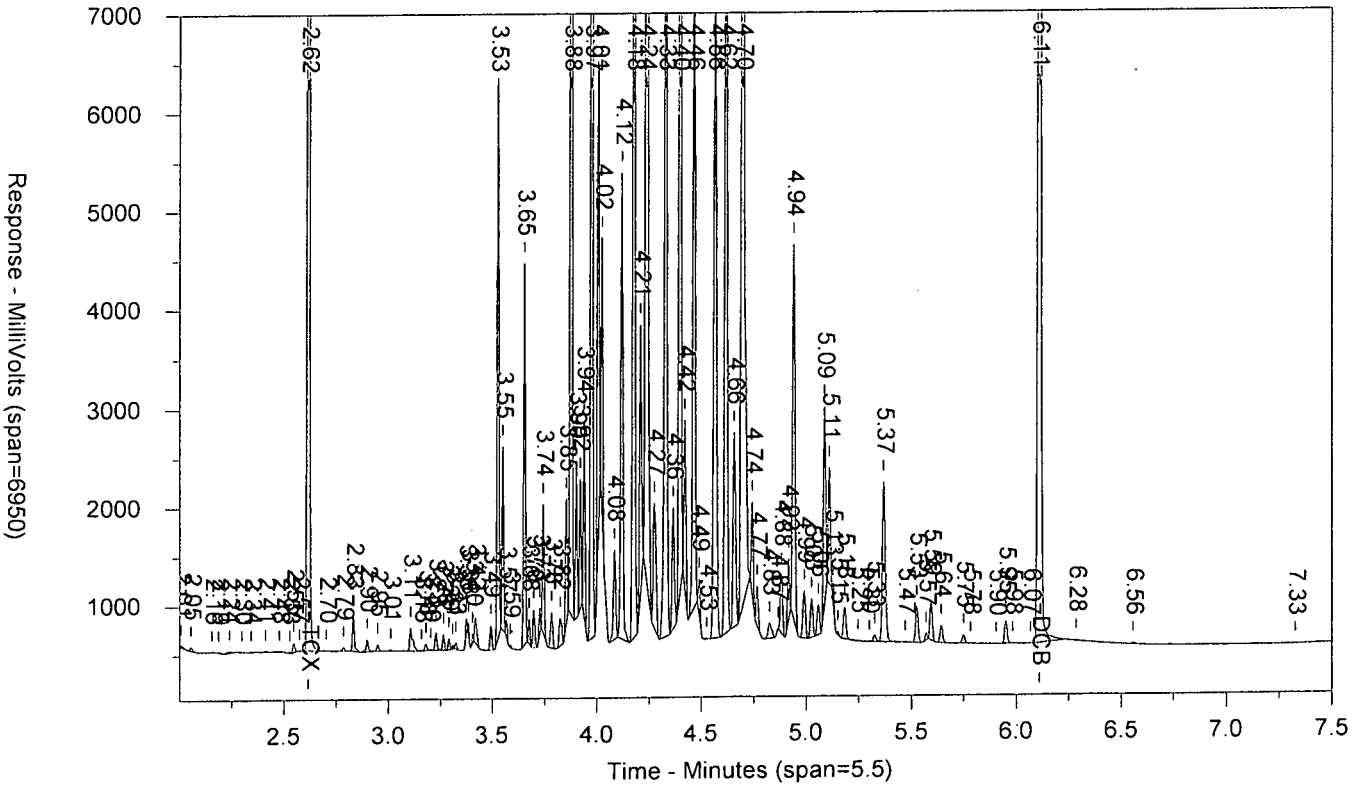

LANCASTER LABORATORIES

Sample Number: AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:09:12 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4622428	40.676	TCX	2.616	27652480	40	TCX
6.611	2754543	40.027	DCB	6.108	20216660	41.497	DCB

Files:
Area File: 20pcbs17137001.020.RAW
Area File: 20pcbs17137001B.020.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:17:56 PM
File Reported On: 5/17/2017 at 8:18:05 PM

AR5441724A AAAR544AA ICAL 1713699999 10736 SW-846 8082

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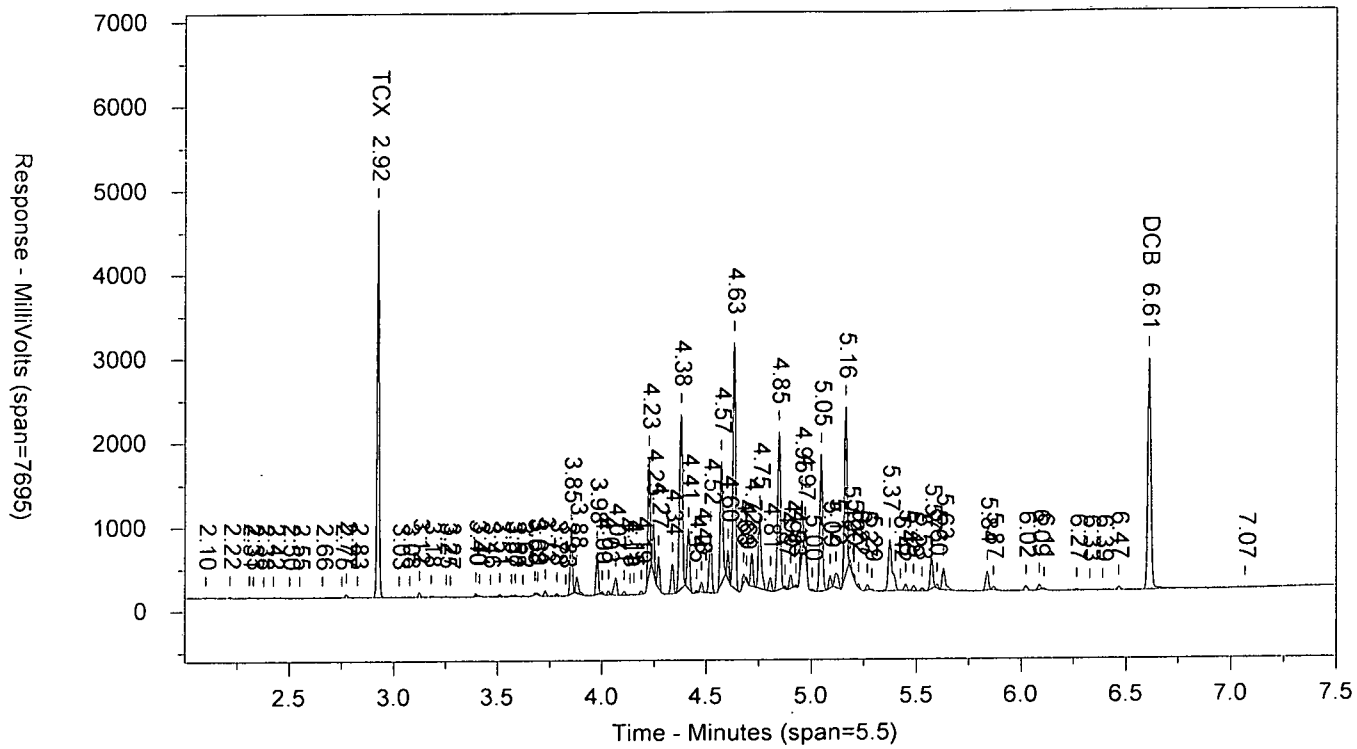

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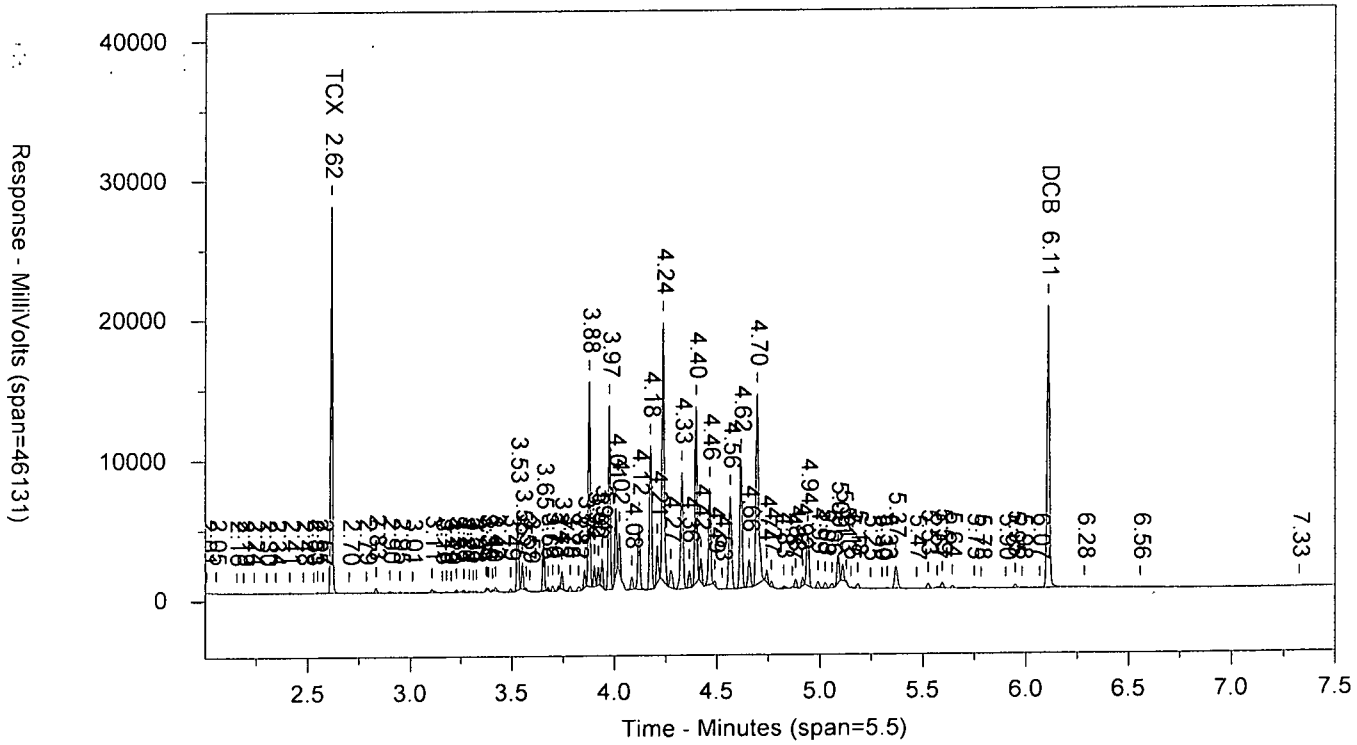

LANCASTER LABORATORIES

Sample Number: AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:20:33 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.021.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		10136	15325
2.137		1957	3258
2.217		32849	23103
2.31		7207	4381
2.328		10988	6834
2.382		1602	2039
2.424		2572	2366
2.549		1624	3440
2.657		1341	1181
2.773		29987	25362
2.827		1909	1978
2.923	TCX	9259284	6193316
3.026		2607	1580
3.076		10509	9142
3.123		120236	82777
3.18		39027	28153
3.253		19678	12024
3.274		4272	2700
3.395		60372	37461
3.412		18196	9948
3.448		2865	1390
3.465		15060	9946
3.51		56681	40532
3.566		33433	19529
3.585		37876	23164
3.621		9950	5749
3.68		43973	23366
3.693		35525	25194
3.728		125742	97325
3.784		60070	47004
3.825		7981	4745
3.853		1532901	1125479
3.88		380596	350463
3.926		3710	1750
3.977		976045	734886
4.001		55330	31529
4.031		97929	72461
4.066		427919	389448
4.107		86308	69635
4.136		6966	3783
4.152		16165	9469
4.188		75052	60647
4.225		2731089	1946699
4.246		1144496	683667
4.269		790486	567088
4.336		739600	607952
4.379		4093713	4152217
4.413		1424145	1148958
4.453		52274	34888
4.475		239453	185835
4.519		1455631	1247542
4.57		2937191	2577190
4.602		670780	440816
4.632		5809577	4977570

RT A	Compound A	Height A	Area A
4.677		243803	171373
4.691		97669	45729
4.716		784146	620944
4.753		1662863	1661778
4.804		319262	287793
4.846		3933572	3580532
4.874		57756	34675
4.901		316861	264192
4.927		60640	36337
4.954		1274447	965506
4.971		647030	381250
5.004		40966	30835
5.046		3218600	2999988
5.089		306935	244835
5.116		349882	442785
5.162		4038610	3527055
5.185		188027	89313
5.201		114123	64175
5.224		79894	56442
5.268		111788	96207
5.288		13829	8690
5.373		1291869	1570699
5.422		6682	3441
5.448		132774	121346
5.488		114070	110967
5.528		62883	59688
5.572		727477	644830
5.598		84254	59788
5.63		509696	553492
5.717		2508	3690
5.837		429872	402658
5.869		68788	70812
5.931		2103	2735
6.022		107955	113902
6.086		117120	106905
6.108		23890	15593
6.264		23668	24737
6.309		1654	1362
6.392		1240	1450
6.466		67040	68969
6.612	DCB	5147151	5368635
6.731		1866	2665
7.068		4042	5274
7.303		319	1737
7.352		681	266
7.653		832	19287
7.884		859	6518

LANCASTER LABORATORIES

Sample Number: AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:20:33 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.021.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		10638	12042
2.054		77814	51292
2.149		5862	6383
2.188		6984	10929
2.239		17332	35365
2.3		3397	2988
2.37		2462	4037
2.411		5470	5645
2.48		5040	3816
2.528		13017	12823
2.547		93664	74032
2.592		2366	815
2.615	TCX	56609560	32376670
2.658		13428	5406
2.786		65576	53138
2.813		5414	2081
2.833		682180	426560
2.899		215177	145429
2.949		130969	77774
3.009		28749	18287
3.106		404997	394420
3.156		21809	11762
3.178		112192	67634
3.202		19318	10214
3.227		333181	230191
3.264		287550	171636
3.291		239646	128881
3.31		74069	34075
3.325		91827	46376
3.375		581964	605897
3.404		178530	82558
3.419		532145	398149
3.492		457736	293835
3.527		11258960	6720859
3.55		3588982	1991392
3.568		351071	157140
3.585		49416	24281
3.653		7142227	4449686
3.676		517787	269731
3.697		753186	507537
3.726		485851	252177
3.743		2645388	1536395
3.783		679704	520067
3.823		523346	490609
3.853		2410604	1417336
3.875		27730980	18334860
3.9		2968250	1659925
3.92		2564218	1388273
3.938		4287230	2595155
3.974		24980650	16651260
4.006		10176120	5940632
4.023		5755855	2952326
4.084		1786367	1264167
4.118		9354214	6783653

RT B	Compound B	Height B	Area B
4.175		21603490	15224730
4.208		5907235	4101801
4.236		37174280	26627210
4.273		2352942	2294730
4.328		16637400	13784300
4.364		2533352	1827689
4.397		25147190	17402020
4.42		3311848	2151376
4.463		13831460	10243460
4.489		734415	425084
4.563		12558530	12010650
4.615		17962290	14155920
4.655		3828722	3362585
4.695		27443780	25440620
4.742		1868969	1194516
4.765		735467	508125
4.824		289705	319814
4.865		25567	21894
4.881		1091167	819870
4.916		1131739	765068
4.939		7620935	6025815
4.99		927257	778313
5.026		769163	608975
5.058		560607	482305
5.088		4093819	2970735
5.11		2529016	1634763
5.128		306339	153700
5.151		64936	38326
5.185		676909	590667
5.247		10623	10339
5.303		10013	6473
5.325		127369	103877
5.368		3009745	3032544
5.469		10264	7195
5.526		742030	659992
5.571		114501	78304
5.594		801130	666356
5.643		347988	303371
5.75		162007	133107
5.782		8871	7558
5.9		7131	6381
5.949		448641	385083
5.981		9773	6448
6.002		5818	3916
6.072		3286	2437
6.108	DCB	38010540	31800680
6.281		11103	20464
6.559		25352	24525
7.192		1593	2380
7.322		1349	2370
7.387		1048	2880
7.437		2147	1986
7.61		1867	1935
7.667		1839	2020
8.216		17121	31325

AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082

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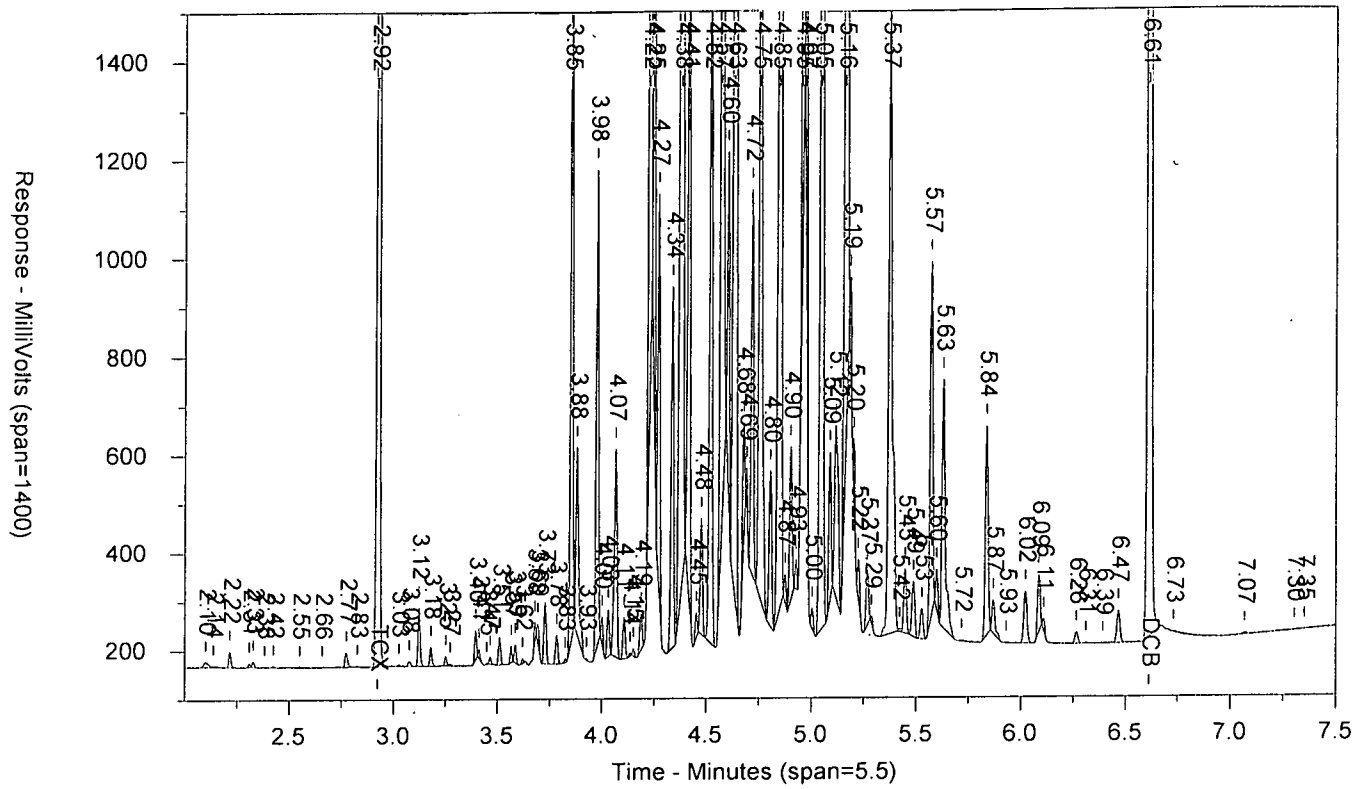

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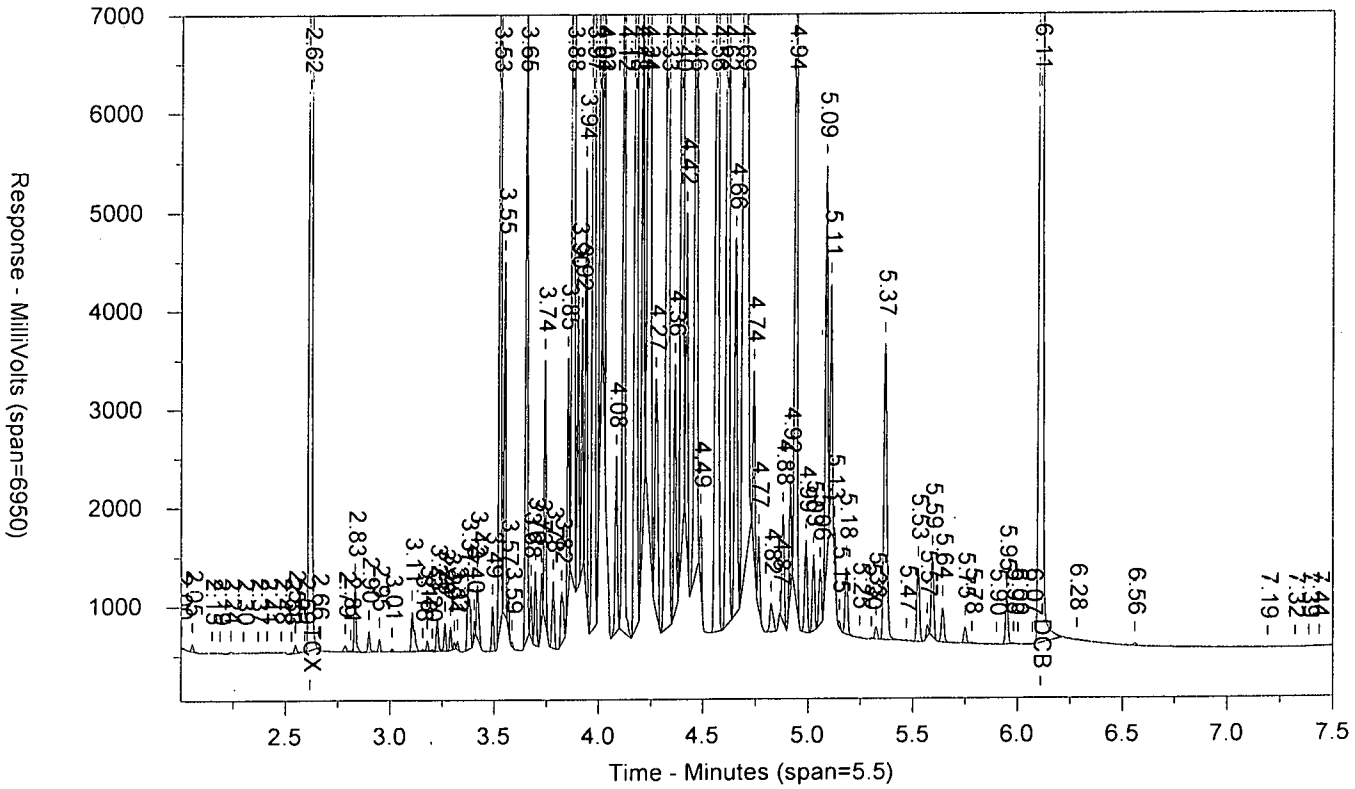

LANCASTER LABORATORIES

Sample Number: AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:20:33 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	9259284	81.479	TCX	2.615	56609560	81.888	TCX
6.612	5147151	74.795	DCB	6.108	38010540	78.022	DCB

Files:
Area File: 20pcbs17137001.021.RAW
Area File: 20pcbs17137001B.021.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:29:14 PM
File Reported On: 5/17/2017 at 8:29:21 PM

AR5451724A AAAR545AA ICAL 1713699999 10736 SW-846 8082

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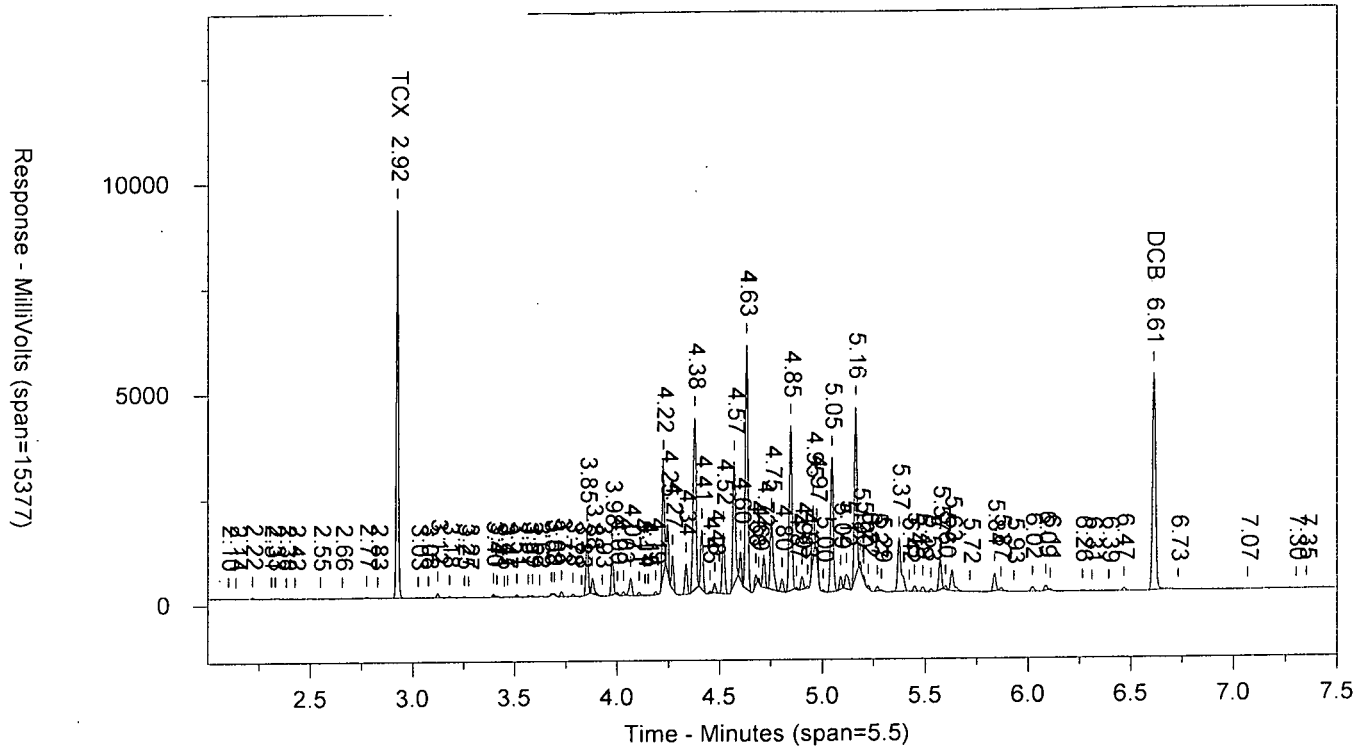

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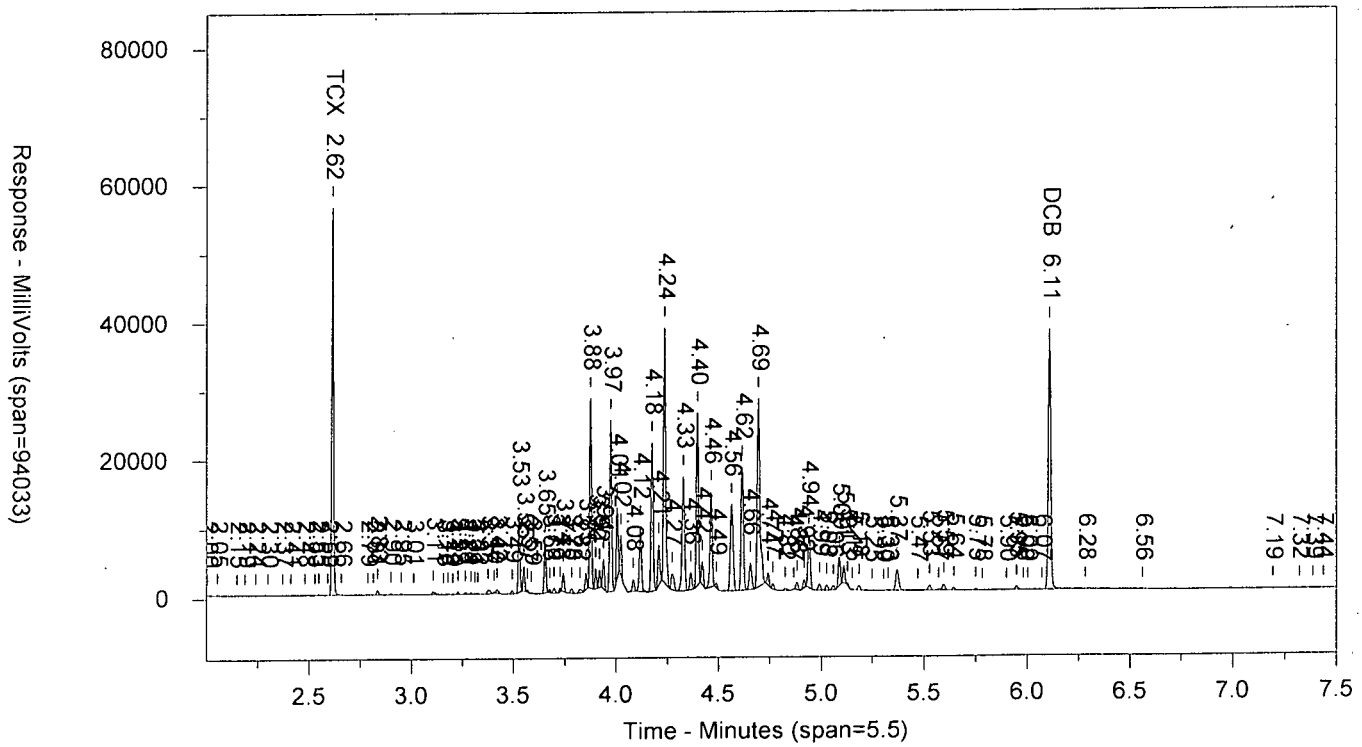

LANCASTER LABORATORIES

Sample Number: AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:31:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.022.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		9580	23702
2.272		2325	2192
2.309		15044	10701
2.38		1413	1869
2.424		4784	4863
2.549		3766	3540
2.584		3914	2183
2.661		1147	1185
2.688		1238	1091
2.774		37604	32514
2.829		5762	5425
2.9		2343	1547
2.925	TCX	1265	1545
3.076		2332	2485
3.133		2147	1611
3.182		14045	14219
3.277		3164	2490
3.396		14661	8914
3.413		5700	2905
3.449		1395	677
3.492		867	472
3.512		14267	8818
3.586		4442	3265
3.622		2914	1640
3.681		6421	2797
3.692		12910	6529
3.729		21262	15246
3.753		4380	2682
3.787		14699	10051
3.812		5651	4317
3.854		18396	13941
3.889		20870	22396
3.92		1566	1535
3.979		16997	15243
4.032		3336	2413
4.068		12551	16739
4.108		3914	3096
4.169		1221	1618
4.189		7024	4631
4.227		101790	85416
4.247		11395	5791
4.27		13417	9012
4.296		6590	5003
4.338		6602	4187
4.359		18999	12025
4.381		124969	104924
4.414		11606	8098
4.453		6869	4821
4.479		24324	20451
4.516		70223	68842
4.587		112833	135698
4.634		66670	57095
4.679		414120	413412
4.717		68078	49803

RT A	Compound A	Height A	Area A
4.756		669409	619595
4.797		20130	18151
4.846		43633	52100
4.878		11216	7414
4.903		76464	70028
4.956		732300	823498
5.005		337470	318742
5.049		319460	391160
5.105		53406	46255
5.128		23137	15279
5.162		578594	631288
5.203		10250	4979
5.225		1002432	922537
5.27		415826	409892
5.364		140912	108881
5.39		809822	830745
5.449		340075	291484
5.47		17892	7063
5.489		94761	72627
5.531		37279	33021
5.553		1619	689
5.575		135463	124638
5.63		1957322	2075627
5.834		1081708	1184801
5.891		535861	881602
6.023		56214	56618
6.087		16088	11269
6.109		252924	224638
6.267		651921	660170
6.312		38215	53621
6.466		241916	250989
6.611	DCB	6683	6850
6.644		981	815
7.185		853	7815
7.564		619	4927
8.087		1111	6097
8.184		997	4562
8.683		3370	3104

LANCASTER LABORATORIES

Sample Number: AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:31:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.022.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		6712	5695
2.082		8236	6411
2.156		6846	7445
2.238		16645	30193
2.345		31043	22180
2.412		17096	18827
2.475		6711	10859
2.53		15682	8915
2.547		104133	78978
2.59	TCX	4138	4616
2.645		14023	11284
2.696		4157	9385
2.785		9224	6312
2.847		18424	16327
2.899		77208	58976
2.922		4334	1890
2.984		10202	6345
3.01		9433	6048
3.105		110047	122576
3.18		21644	19348
3.202		6711	3373
3.227		102144	68164
3.264		32612	20047
3.309		23071	10959
3.325		55681	30451
3.354		8439	4422
3.375		55743	26361
3.385		91280	39251
3.418		99711	89717
3.451		4412	2199
3.493		121870	98875
3.527		103594	53100
3.551		184101	111025
3.58		48747	39172
3.61		35902	21056
3.654		122840	73285
3.674		61398	33483
3.698		37603	23374
3.727		69786	37999
3.743		67609	38051
3.783		39874	33266
3.831		82448	82190
3.86		36201	27912
3.876		785265	500722
3.901		80511	45580
3.921		21514	10753
3.939		66402	39943
3.974		885799	614789
4.008		117386	74958
4.035		278568	216640
4.058		16611	7908
4.071		177477	115310
4.11		370790	344837
4.152		20032	11490

RT B	Compound B	Height B	Area B
4.175		190938	132370
4.218		460868	314325
4.25		2580708	1911976
4.276		667678	680248
4.328		4377388	3375554
4.369		140668	104106
4.397		173234	127479
4.422		643408	497810
4.465		4869363	3784974
4.525		3471	4695
4.568		4600259	4096827
4.621		834799	675650
4.66		1361553	1116638
4.695		3029463	2540303
4.728		6508425	5086081
4.766		3300506	2621874
4.823		5346	3391
4.866		1395086	1165309
4.916		6474238	5652151
4.99		2538959	2581296
5.027		848939	638623
5.056		749016	616201
5.088		27549	19505
5.111		12314600	10191220
5.151		219262	163912
5.184		837725	705775
5.259		4324	3395
5.303		219683	140021
5.326		5102819	4118445
5.374		8213507	8400974
5.527		387830	338255
5.572		61504	42127
5.595		245012	199588
5.644		1851441	1631078
5.75		4445079	3845746
5.781		224678	160141
5.95		1767900	1579581
6.108	DCB	48228	43930
6.284		6197	5048
7.326		1897	4203
7.622		2046	4034
7.66		1741	1302
7.787		2571	11436
8.214		16572	30496

AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082

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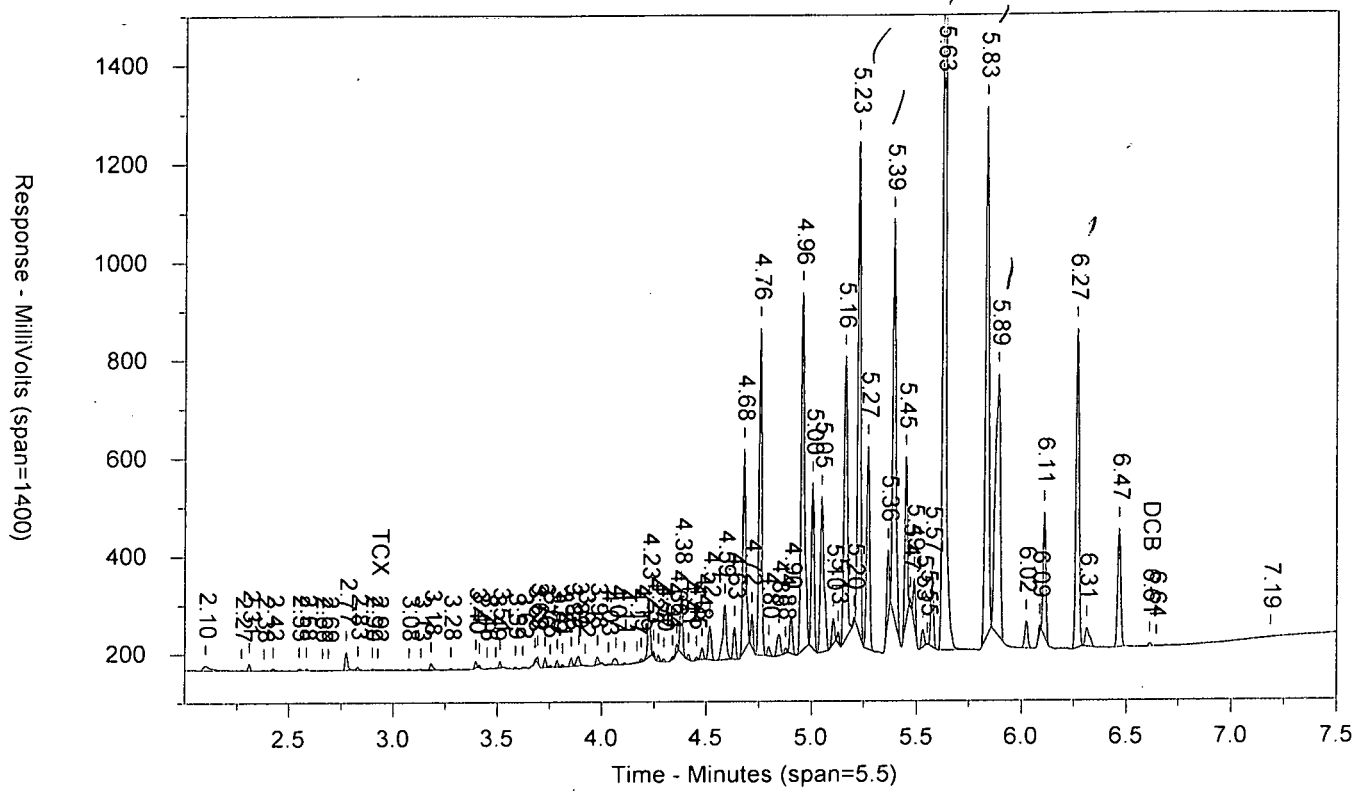

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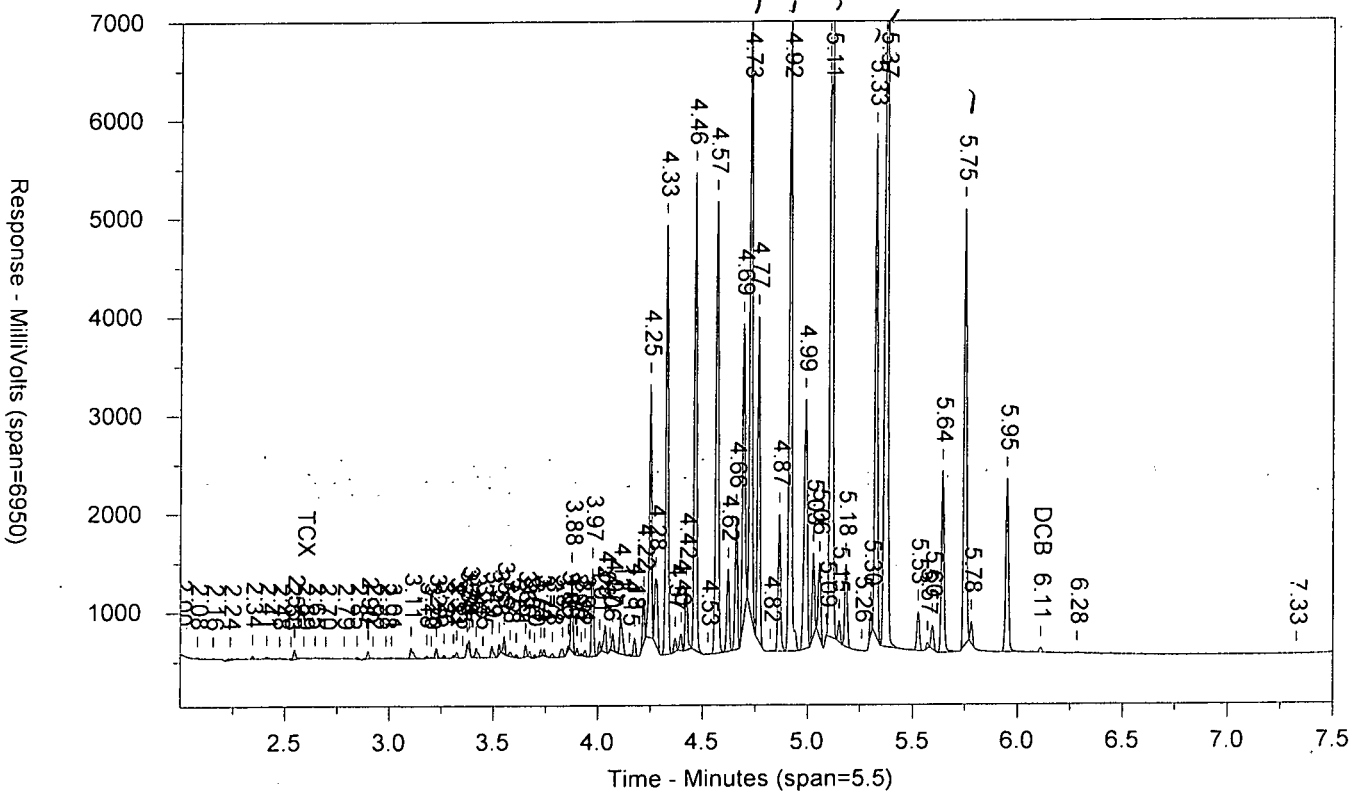

LANCASTER LABORATORIES

Sample Number: AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:31:54 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.925	1265	.011	TCX	2.59	4138	.006	TCX
6.611	6683	.097	DCB	6.108	48228	.099	DCB

Files:
Area File: 20pcbs17137001.022.RAW
Area File: 20pcbs17137001B.022.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:40:39 PM
File Reported On: 5/17/2017 at 8:40:49 PM

AR6231724A AAAR623AA ICAL 1713699999 10736 SW-846 8082

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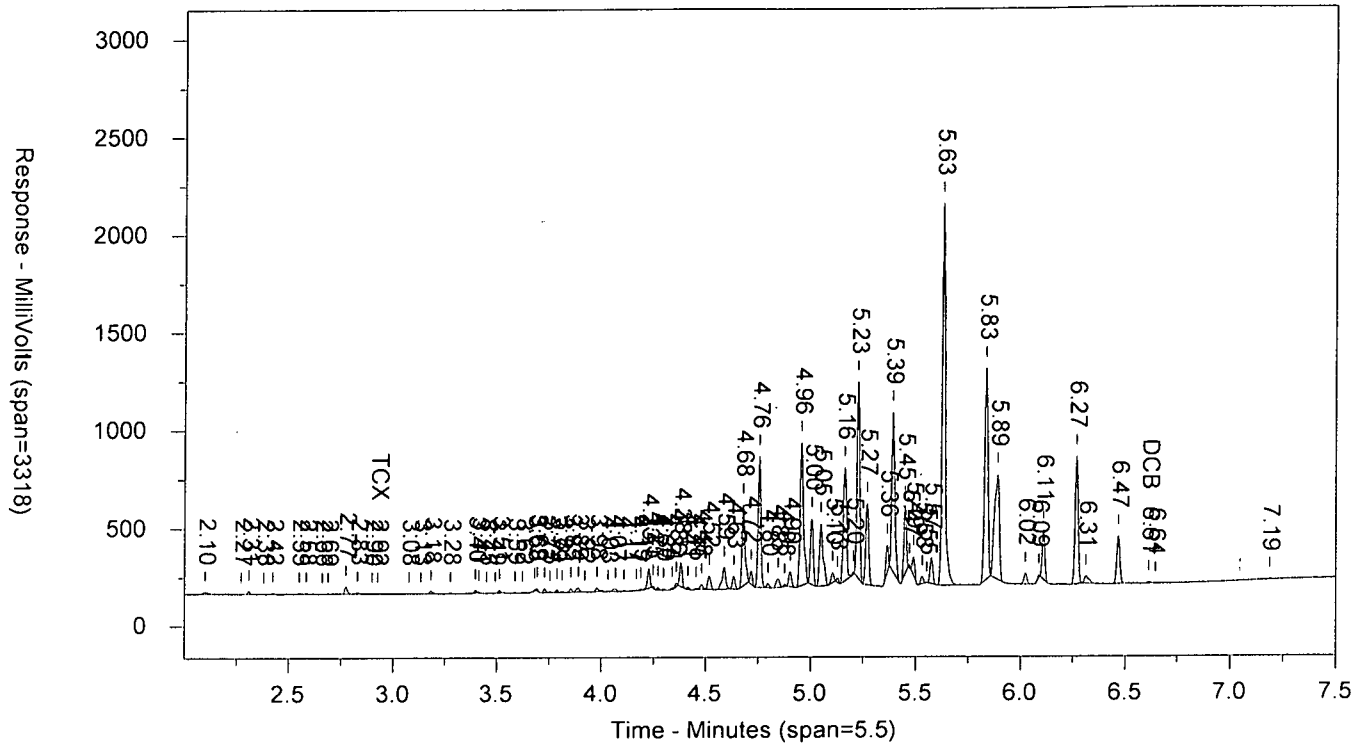

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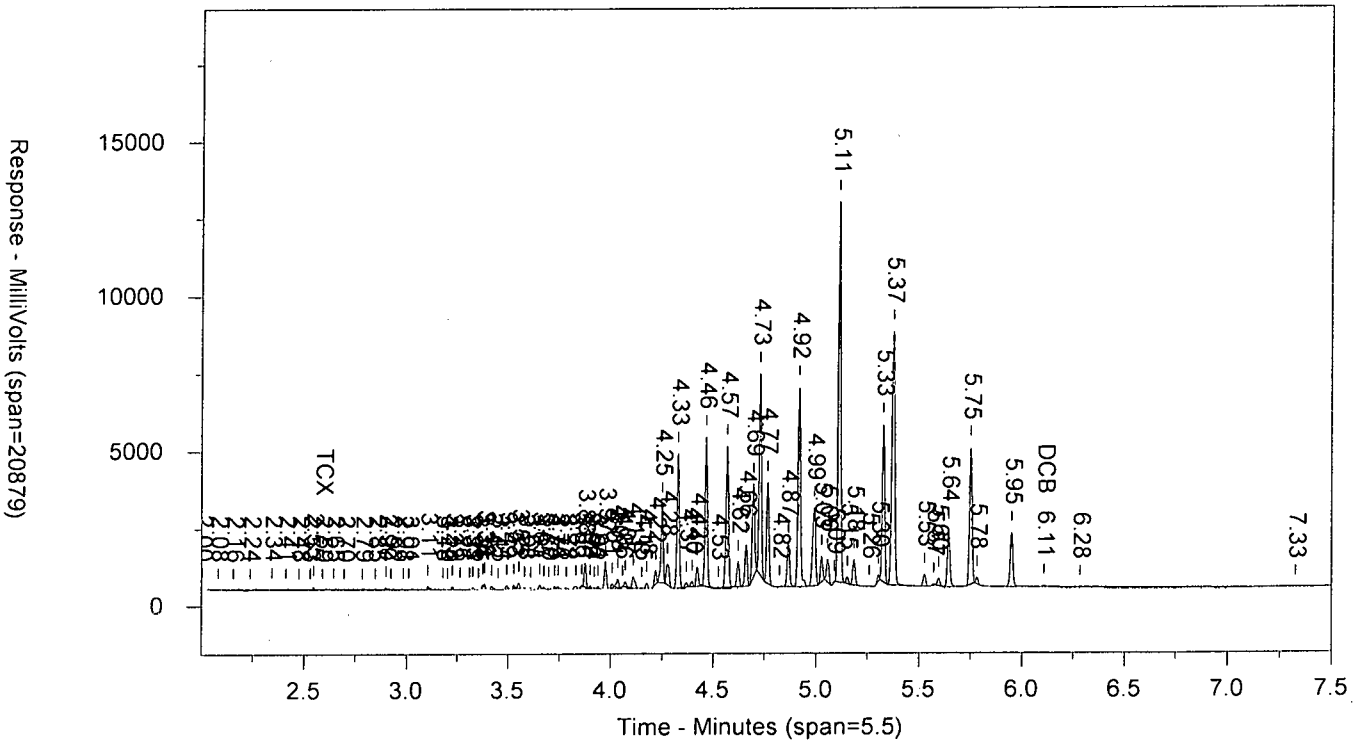

LANCASTER LABORATORIES

Sample Number: AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:43:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.023.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.009		673	441
2.1		17338	39268
2.31		15555	10909
2.38		1656	1983
2.425		5499	5019
2.549		1604	1406
2.66		1451	1304
2.753		782	410
2.774		41198	35401
2.828		5683	5165
3.192		6115	6799
3.397		3498	2331
3.493		1036	558
3.512		2959	1653
3.531		2441	2003
3.587		1284	1199
3.623		1125	1188
3.667		1941	1310
3.681		2130	952
3.693		3182	1626
3.73		6662	5652
3.788		4605	4247
3.853		6147	6411
3.889		4508	5190
3.979		5617	3888
4.003		2367	1441
4.033		2138	1364
4.069		6233	7594
4.109		3528	3137
4.172		1336	1076
4.189		3232	1904
4.223		10238	13920
4.247		10674	6779
4.27		9116	5519
4.297		7978	6831
4.327		872	814
4.377		13432	10564
4.399		3520	2143
4.473		6198	5777
4.516		43448	44026
4.573		12186	11143
4.634		6338	5529
4.679		6266	6093
4.719		9664	8073
4.756		15389	13703
4.798		35412	32710
4.842		16121	17384
4.879		52062	45422
4.92		3808	3902
4.957		5767	4221
5.005		50320	45962
5.049		14371	20116
5.092		1282	685
5.119		23324	22038

RT A	Compound A	Height A	Area A
5.159		21173	21187
5.205		19574	13064
5.226		388389	354919
5.27		41378	41995
5.365		33355	27563
5.405		511868	625569
5.471		161593	187229
5.53		57695	59086
5.576		10572	10213
5.63		164526	128505
5.651		107210	80131
5.832		2407763	2419411
5.892		2100808	2311303
6.022		1958924	1941615
6.087		449104	398307
6.108		27498	19316
6.267		809132	798137
6.313		5137	3780
6.343		2719	2839
6.466		6332050	6342311
6.613	DCB	1236467	1264548
6.69		4092	3746
6.931		2872	3623
7.275		831	14575
7.608		649	631
7.674		729	715
7.787		1113	630
8.227		803	3921
8.305		685	567
8.356		527	952

LANCASTER LABORATORIES

Sample Number: AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:43:23 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.023.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.006		21241	16823
2.156		5306	4126
2.24		17166	30705
2.343		2269	1469
2.367		2996	2539
2.411		8424	9386
2.479		11902	26723
2.53		14069	13108
2.547		116581	93946
2.629	TCX	2736	1880
2.703		4776	16369
2.799		3779	3230
2.9		16664	22510
2.988		2732	1622
3.106		26538	44021
3.182		15285	17140
3.228		26898	18718
3.265		8538	6302
3.311		3843	1613
3.326		29643	17278
3.355		4169	2350
3.375		16702	8217
3.385		25882	10490
3.417		21484	18108
3.45		3917	2112
3.493		38800	25695
3.528		39744	23115
3.552		54148	31220
3.569		7386	2764
3.586		18816	16536
3.655		55143	34610
3.676		18057	12099
3.701		29240	20635
3.728		25152	12855
3.745		39765	22561
3.785		29057	21600
3.832		77279	61235
3.86		49242	40158
3.878		85619	51243
3.902		71738	43241
3.922		4082	1856
3.976		25514	27207
4.011		53779	33346
4.025		8303	2706
4.038		25781	13183
4.073		42858	29449
4.091		15089	6846
4.11		229867	192773
4.153		57525	37464
4.174		17046	8718
4.208		17671	18025
4.237		23245	13132
4.251		25735	13078
4.281		12734	12271

RT B	Compound B	Height B	Area B
4.33		151608	134535
4.369		232064	171839
4.397		34429	23376
4.421		54921	32268
4.441		310657	216825
4.465		34905	18674
4.523		3829	4068
4.568		383299	324483
4.62		101858	89177
4.666		172511	178441
4.697		74599	55370
4.728		2738061	2497022
4.766		231697	165698
4.839		5167	5691
4.866		298313	244272
4.916		4161403	3553631
4.944		53763	31834
4.983		1120441	1051110
5.027		23600	13600
5.043		12475	6370
5.062		284608	233537
5.111		1539656	1321321
5.185		1328754	1125488
5.264		8708	6939
5.303		155026	100515
5.327		16635460	13829890
5.374		16842710	14298820
5.527		14469800	12037960
5.594		3498455	3122866
5.644		725776	615375
5.75		5669355	4950070
5.874		24072	26744
5.95		43087670	37186810
6.108	DCB	8495542	7577039
6.255		3297	1077
6.281		24491	24200
6.447		20171	16697
7.029		2050	1964
7.296		1800	720
7.68		1734	17182
8.063		1991	2614
8.131		1496	876
8.216		16946	29976

AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082

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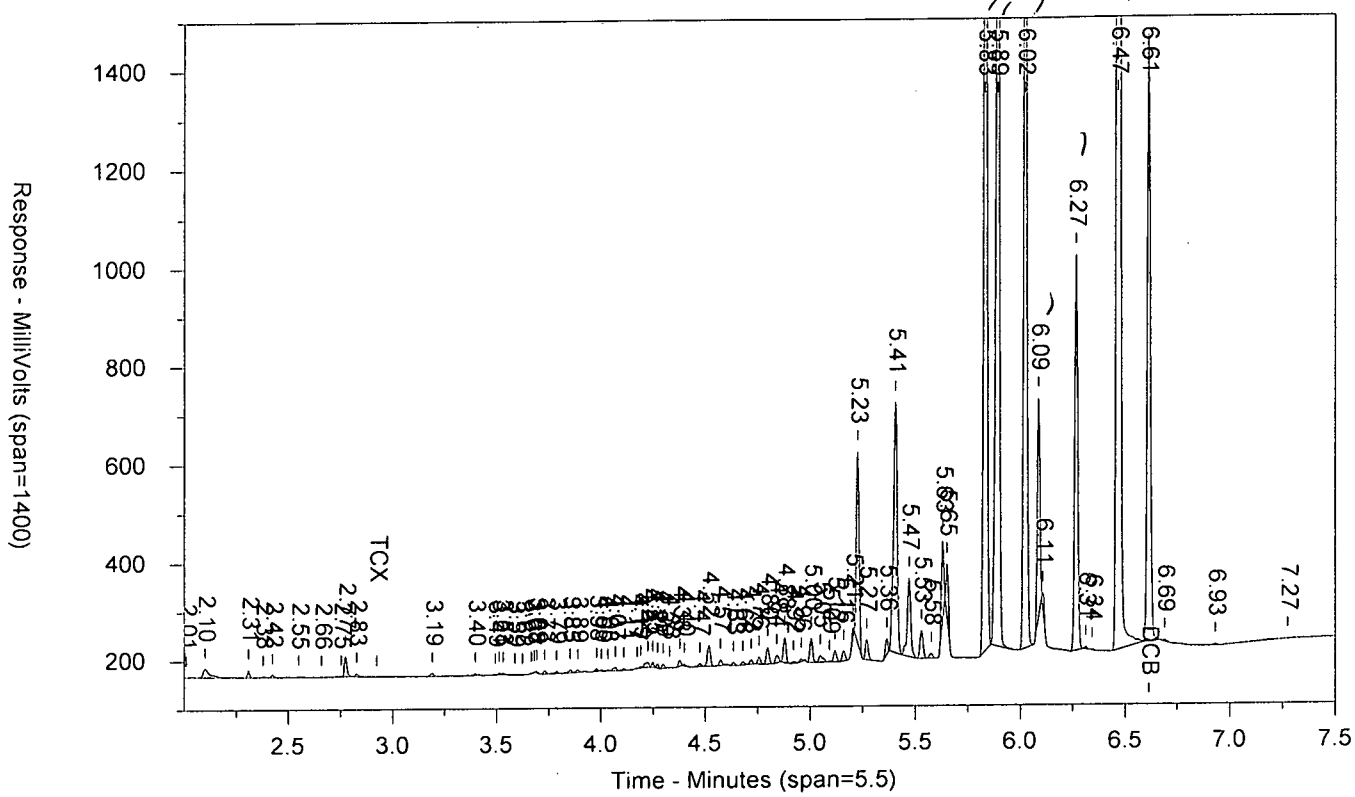

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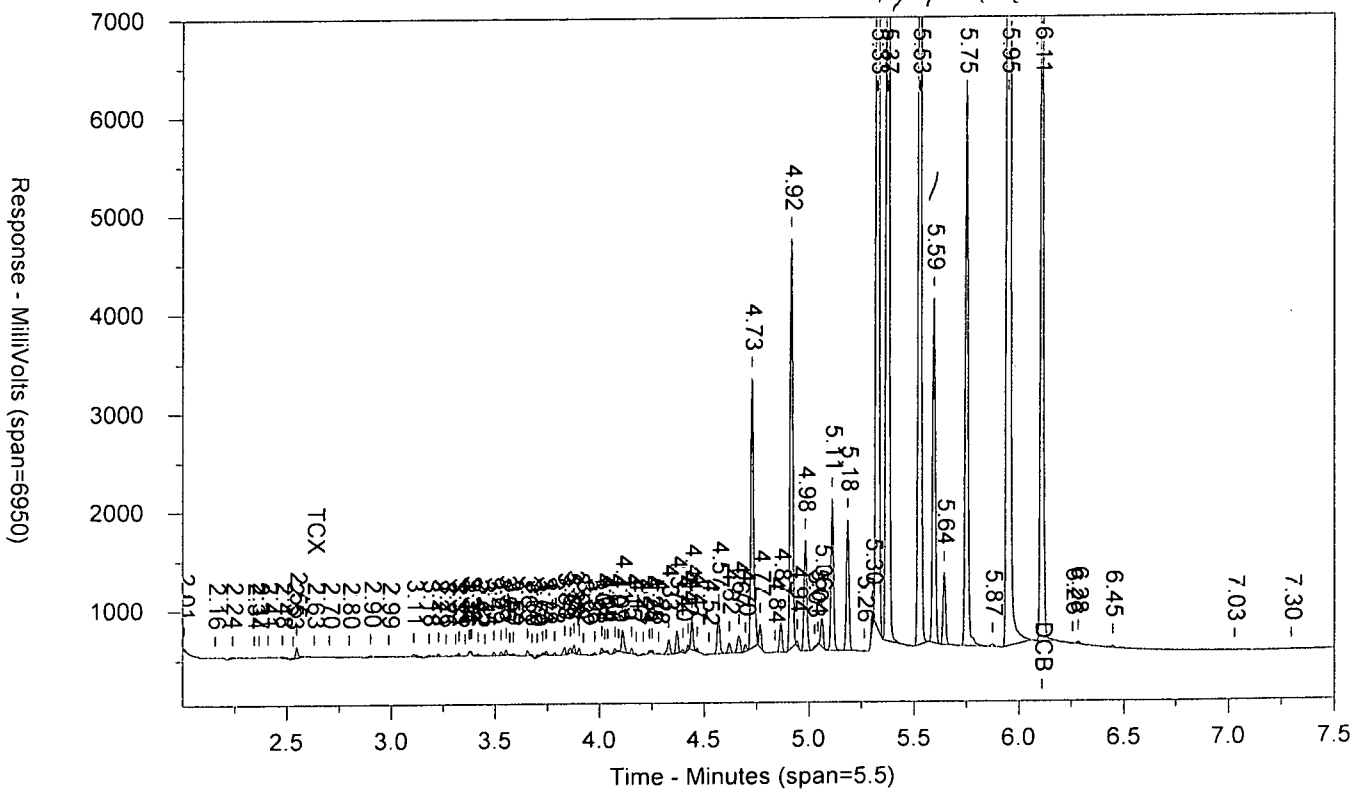

LANCASTER LABORATORIES

Sample Number: AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:43:23 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
	0		TCX	2.629	2736	.004	TCX
6.613	1236467	17.968	DCB	6.108	8495542	17.438	DCB

Files:
Area File: 20pcbs17137001.023.RAW
Area File: 20pcbs17137001B.023.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 8:52:06 PM
File Reported On: 5/17/2017 at 8:52:15 PM

AR6831724A AAAR683AA ICAL 1713699999 10736 SW-846 8082

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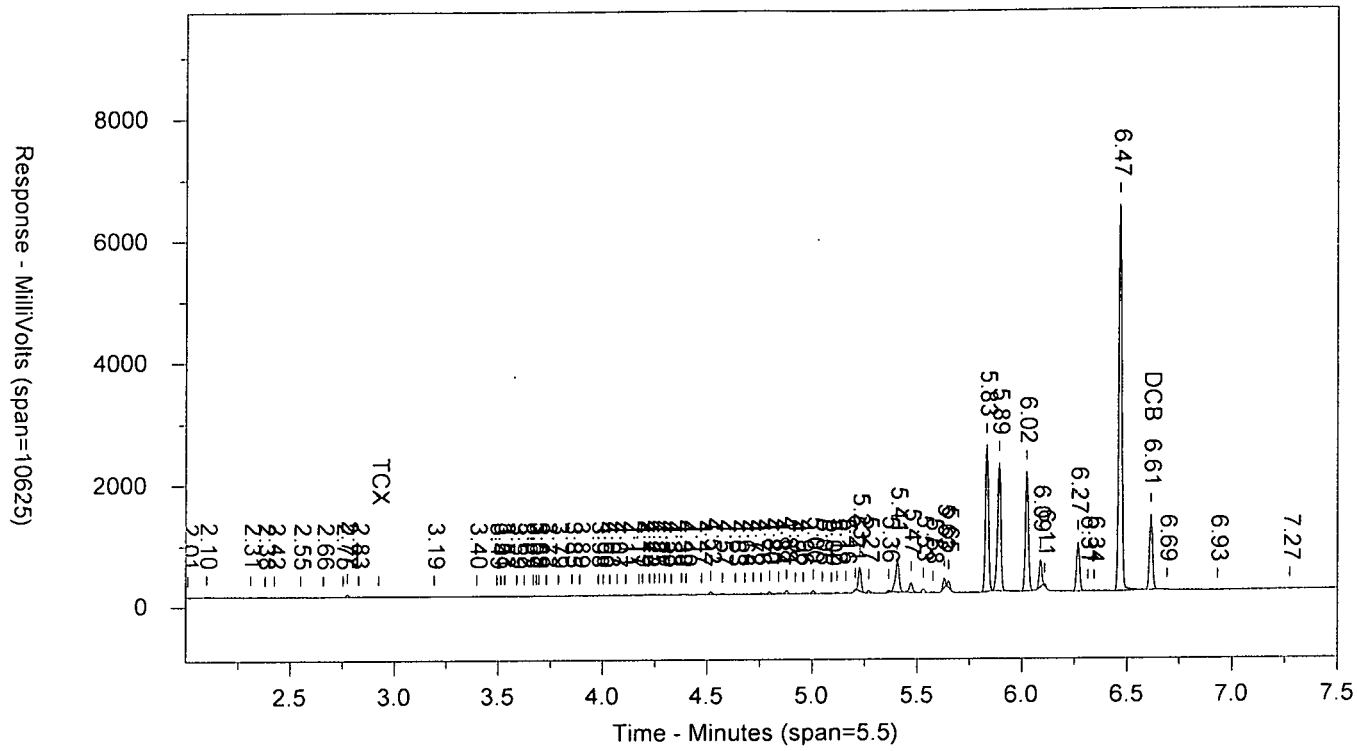

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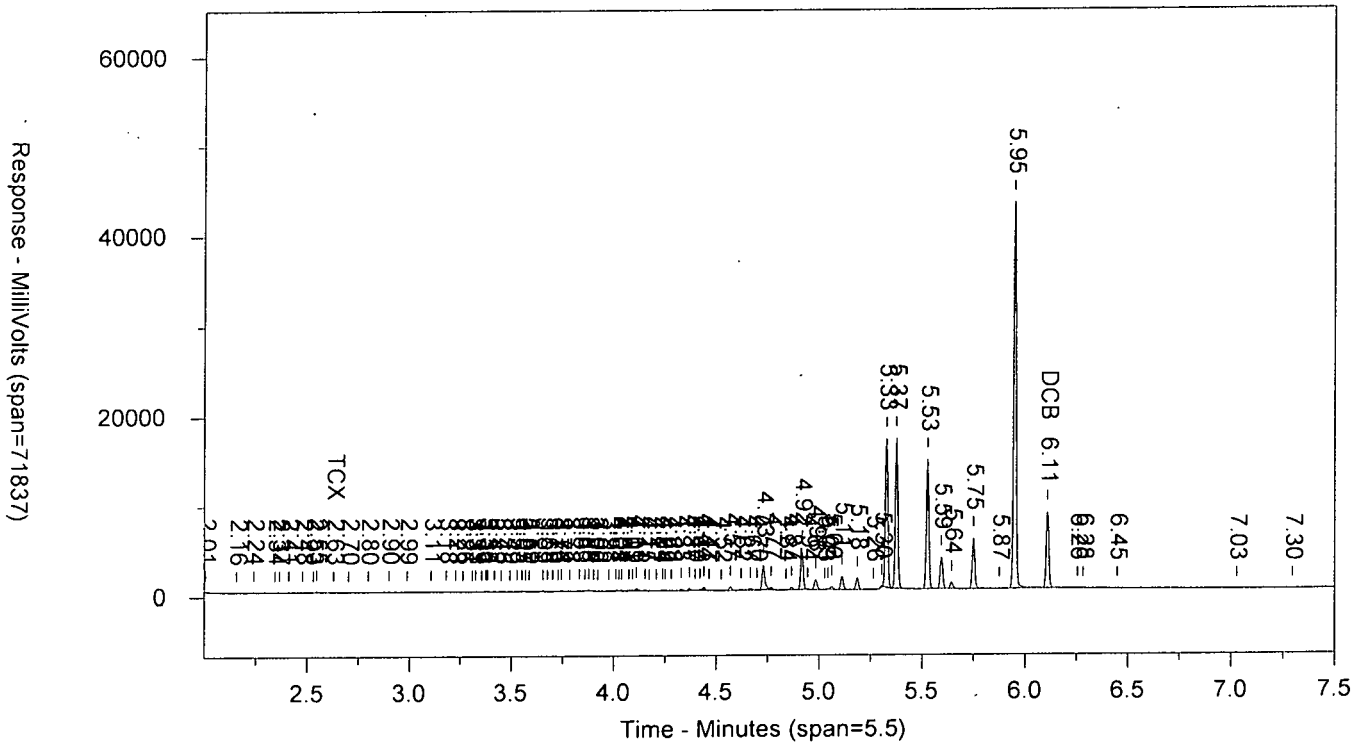

LANCASTER LABORATORIES

Sample Number: AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:54:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.024.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		4572	7710
2.142		1563	4264
2.217		17679	14687
2.31		10780	6546
2.329		5646	3182
2.377		1391	1722
2.425		3198	2818
2.503		1993	2027
2.565		151640	111900
2.658		1251	1083
2.72		1072	1184
2.775		13454	9980
2.805		1658	894
2.843		53426	38394
2.924	TCX	4680481	3111497
3.027		1600	1442
3.078		196682	164416
3.134		170034	152109
3.182		549305	393201
3.254		9573	5778
3.276		3519	2126
3.36		853	526
3.396		29015	16797
3.415		5791	3146
3.434		6904	2521
3.483		67088	47206
3.512		33523	24930
3.568		16899	10150
3.587		2190	1108
3.623		6802	3859
3.638		6472	3582
3.666		3977	2418
3.682		11697	5616
3.693		28410	14798
3.73		42442	30933
3.788		24781	17284
3.829		588	340
3.855		13611	10857
3.882		5143	3864
3.979		8926	6249
4.004		2943	2271
4.034		1953	1487
4.072		13286	12215
4.109		2426	2321
4.174		1203	1272
4.189		1578	1091
4.227		16264	11346
4.247		8605	5338
4.271		8639	5333
4.298		7383	6439
4.337		3057	2644
4.379		18518	17458
4.415		3740	2309
4.452		1694	1407

RT A	Compound A	Height A	Area A
4.483		1711	1611
4.52		7651	8534
4.573		14036	12201
4.604		2731	1821
4.634		21031	18316
4.68		3493	3789
4.717		4143	3395
4.756		7189	7143
4.804		1370	1422
4.848		12862	11836
4.878		18465	15543
4.923		1899	1510
4.955		4872	3690
5.005		3315	3483
5.047		9139	11031
5.118		35724	34192
5.164		10634	9338
5.205		2941	2222
5.374		2093	1630
5.45		961	1935
5.531		29435	29630
5.575		1388	1111
5.652		53840	55137
5.687		2489	2036
5.838		4293	4820
5.882		1815	2208
5.927		1419	1391
6.024		54350	57310
6.088		55010	48004
6.109		8149	5036
6.228		3426	28421
6.264		1209	1221
6.306		949	1527
6.391		2096	2977
6.437		814	675
6.467		34476	35645
6.511		1095	1373
6.613	DCB	2752742	2865048
6.995		1072	1178
7.069		2262	2787
7.21		1048	4020
7.349		378	3159
7.822		761	1577
8.119		794	6225
8.297		784	725
8.681		2496	3556

LANCASTER LABORATORIES

Sample Number: AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:54:54 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.024.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		4036	2981
2.054		40953	28314
2.156		8959	8987
2.186		2457	948
2.203		13983	7041
2.237		14579	20349
2.271		4019	2351
2.3		704555	472893
2.411		7366	9304
2.452		2827	1411
2.48		4688	3264
2.527		15530	13055
2.547		43121	22290
2.571		230802	143219
2.615	TCX	28055290	16465540
2.658		286031	234623
2.702		4056	4250
2.786		1194106	778645
2.833		231757	101827
2.847		736099	395517
2.899		3053589	1839786
2.949		69187	46558
2.989		6744	4763
3.01		25064	14682
3.086		9347	4909
3.106		121257	60016
3.117		36629	11638
3.125		62700	22754
3.147		106755	67850
3.178		27245	18562
3.203		390349	225446
3.227		218594	135171
3.265		27823	17612
3.292		124082	66259
3.31		57191	26368
3.326		135316	72334
3.354		18589	10105
3.376		81932	43772
3.385		216747	98762
3.419		224355	168101
3.451		5846	3583
3.493		204600	133431
3.528		84436	48442
3.551		58992	39284
3.569		13215	6047
3.591		5320	10570
3.655		75645	49602
3.677		25667	13336
3.701		26111	19510
3.728		16658	8133
3.745		99155	59336
3.785		19513	13885
3.838		7630	7845
3.854		32342	17897

RT B	Compound B	Height B	Area B
3.877		172910	110983
3.902		57909	34120
3.922		11048	5098
3.939		21992	12070
3.976		107701	69167
4.009		52939	31551
4.026		25566	28941
4.073		65790	61450
4.12		40859	30622
4.152		22822	14544
4.177		74028	49635
4.209		21468	14022
4.238		140921	111153
4.275		10296	10017
4.33		75325	65727
4.368		10668	8051
4.398		73090	49620
4.423		9067	4949
4.44		119500	80027
4.466		39128	27932
4.521		6007	5825
4.566		51654	69490
4.619		44657	39400
4.669		215823	163523
4.696		59722	48015
4.728		3308	1373
4.743		8795	5267
4.766		6301	6950
4.842		11544	12237
4.918		22330	17424
4.943		17297	12675
4.986		23685	25441
5.028		7227	5075
5.062		168673	141608
5.089		4361	1936
5.112		13728	9531
5.185		347217	304392
5.246		17159	16026
5.31		3544	3340
5.326		21138	85744
5.407		30499	83631
5.473		11423	23187
5.528		388964	334508
5.596		449616	386798
5.644		140753	120225
5.78		4264	10519
5.859		6935	17558
5.905		6385	6526
5.95		236036	198178
5.981		9435	6459
6.074		1835	1672
6.109	DCB	18941510	16489520
6.172		5903	3498
6.246		5102	5751
6.291		6930	15620
6.56		16141	15277
6.737		4865	10420
6.769		1575	1396
7.216		1490	4100
7.552		1572	3302
7.681		1797	4206
7.728		2424	4355
8.215		14414	26496

AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082

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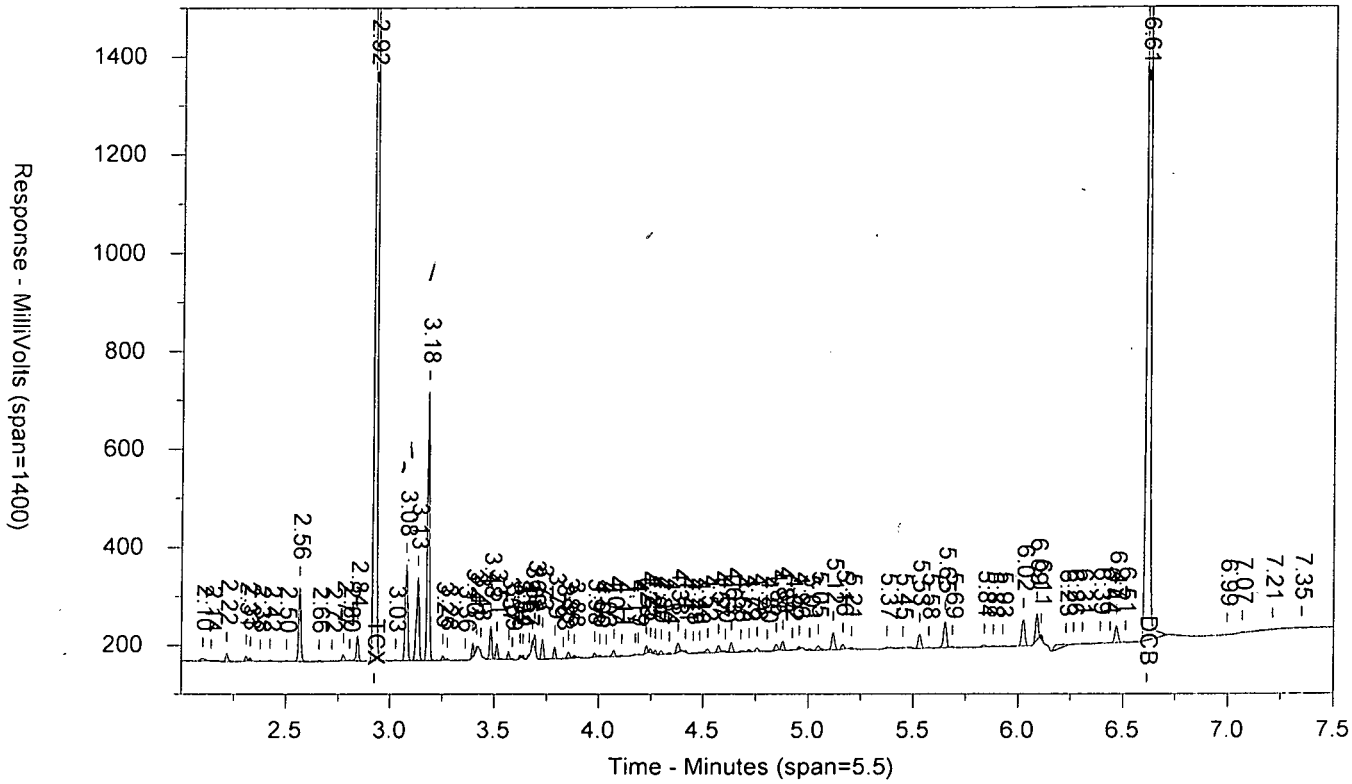

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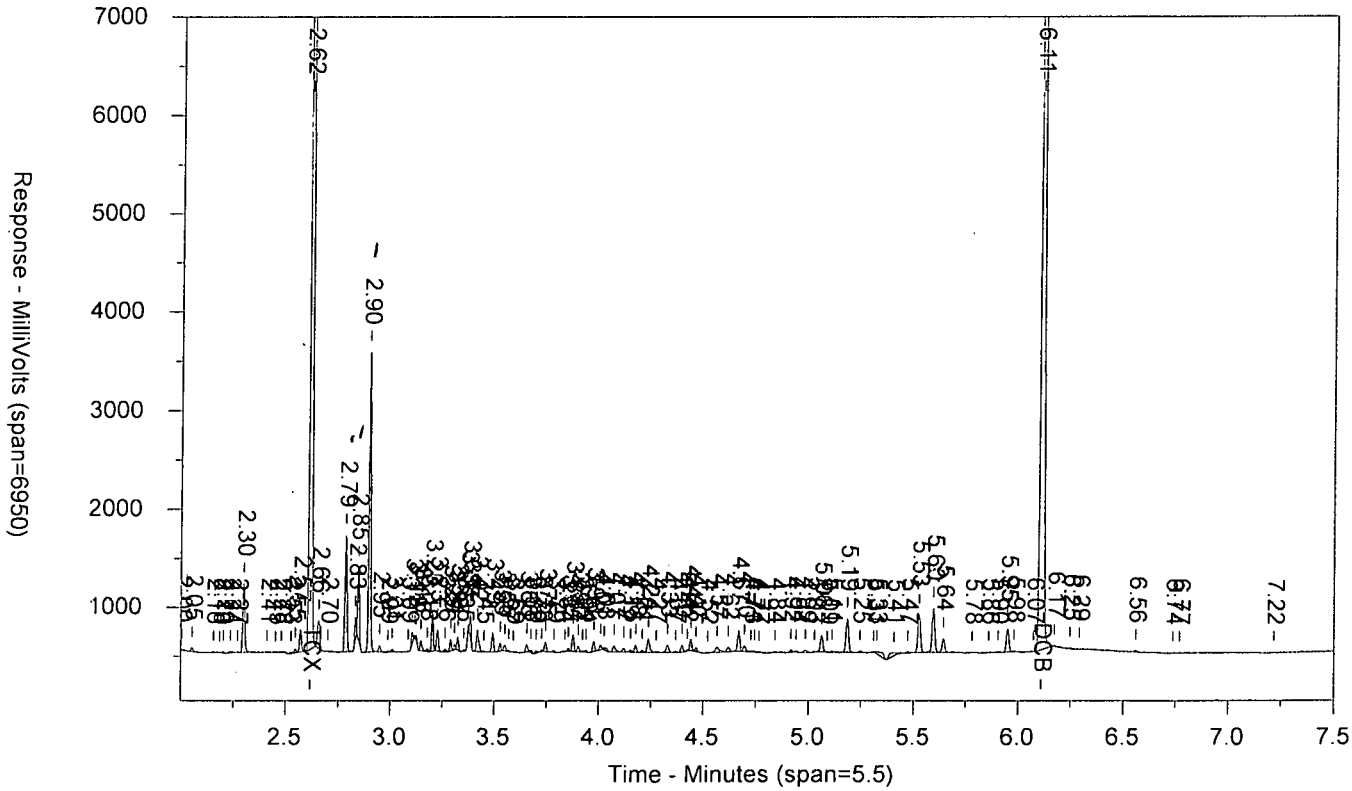

LANCASTER LABORATORIES

Sample Number: AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 8:54:54 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4680481	41.187	TCX	2.615	28055290	40.583	TCX
6.613	2752742	40.001	DCB	6.109	18941510	38.88	DCB

Files:
Area File: 20pcbs17137001.024.RAW
Area File: 20pcbs17137001B.024.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:03:38 PM
File Reported On: 5/17/2017 at 9:03:46 PM

AR2131724A AAAR213AA ICAL 1713699999 10736 SW-846 8082

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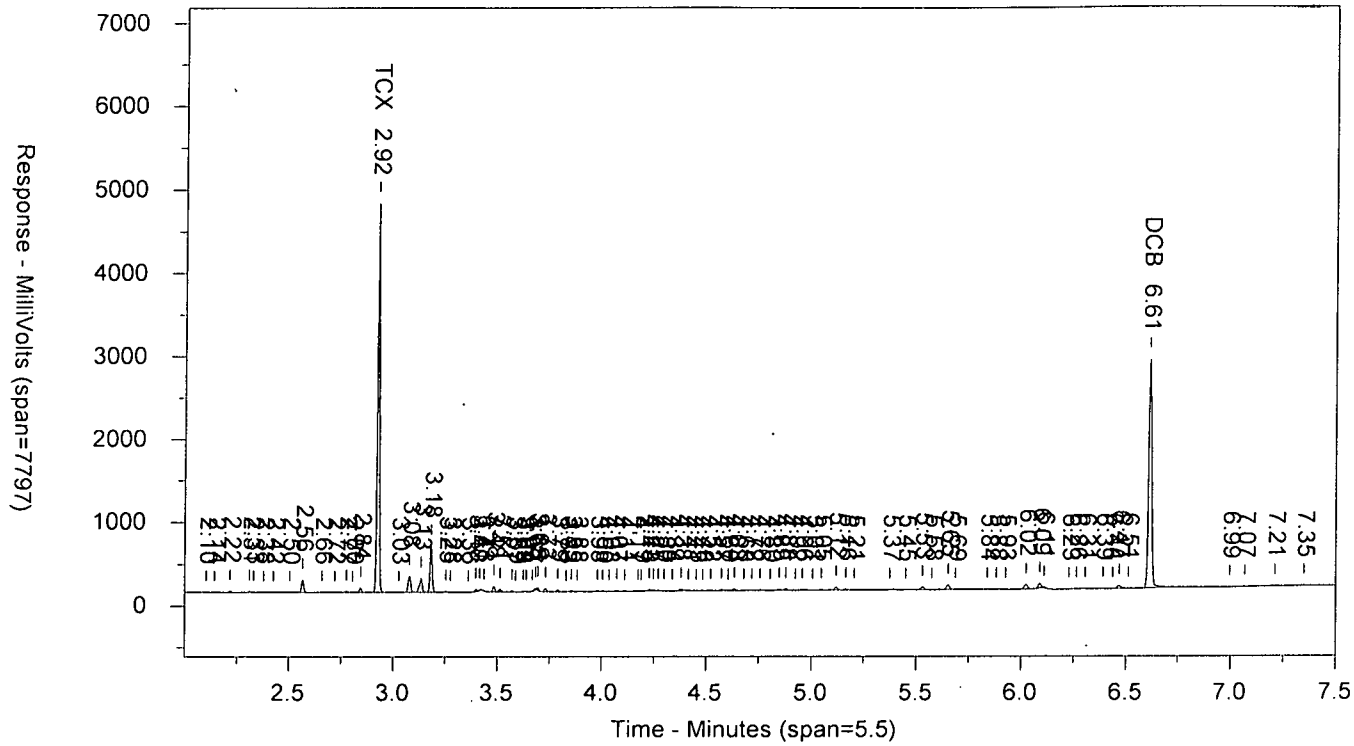

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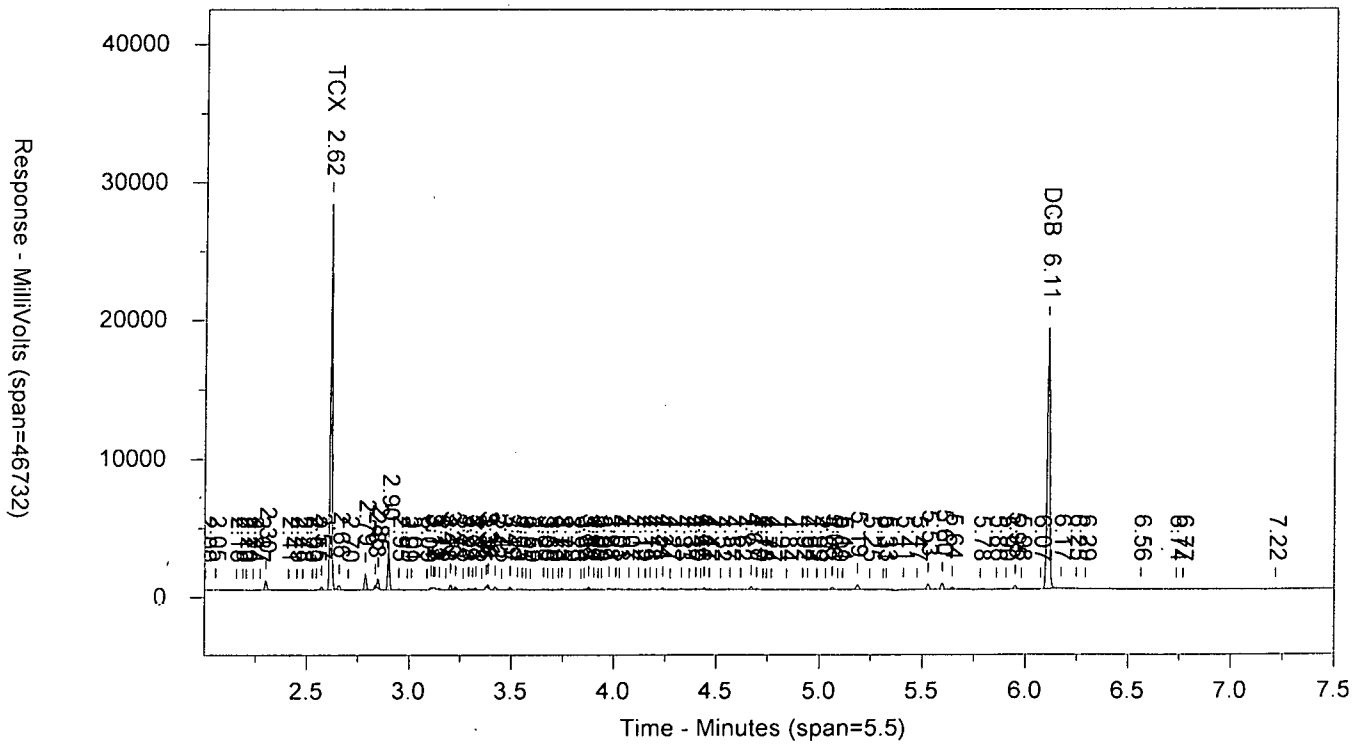

LANCASTER LABORATORIES

Sample Number: AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:06:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.025.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.104		8547	13431
2.139		2092	4498
2.218		17008	13285
2.31		20521	12613
2.329		5270	2937
2.381		1757	2041
2.425		7496	6794
2.565		94261	73242
2.659		1490	1288
2.719		987	1305
2.774		19005	14614
2.828		2250	1442
2.843		27798	16698
2.924	TCX	4693937	3125828
3.027		1367	1124
3.077		150485	123968
3.134		137890	132950
3.181		493963	353504
3.254		9441	5475
3.275		24525	15558
3.315		763	598
3.361		1450	966
3.397		198764	118673
3.413		90636	49915
3.451		21222	10849
3.466		4428	1794
3.483		51447	32247
3.513		218093	167254
3.569		17589	10651
3.588		6318	3589
3.624		46986	26284
3.638		22944	11243
3.683		77391	48100
3.694		207641	108081
3.73		236587	186050
3.789		185481	148218
3.828		13184	8585
3.856		120668	91083
3.884		98315	80462
3.905		28914	15239
3.98		143380	103269
4.004		50202	32159
4.035		58490	40933
4.071		148424	157195
4.11		49941	39732
4.156		8451	7665
4.195		12574	9852
4.229		104282	72441
4.249		140453	89213
4.272		161712	113501
4.298		5535	3532
4.331		9464	11745
4.378		123236	98185
4.4		60604	46039

RT A	Compound A	Height A	Area A
4.456		1202	792
4.48		4669	3521
4.522		27183	28515
4.575		34711	31166
4.606		19406	13908
4.636		56331	48079
4.679		2541	2251
4.72		32452	28973
4.759		6776	7457
4.809		5876	5096
4.851		37086	35223
4.88		17499	13979
4.929		4960	6915
4.958		4572	3131
5.009		2640	2557
5.05		38130	39872
5.121		38525	36712
5.167		10403	9599
5.207		4109	3552
5.27		1910	1740
5.392		4566	8472
5.435		885	587
5.452		1928	1158
5.474		1385	897
5.531		31908	32003
5.578		1773	1333
5.653		64155	69583
5.838		7857	8530
5.883		2287	3604
6.025		66452	66922
6.089		64701	59127
6.109		6909	4823
6.27		1919	1961
6.394		1507	1643
6.438		796	965
6.469		34768	37300
6.615	DCB	2695301	2808775
6.898		645	474
7.072		2378	2442
7.307		730	17129
8.087		798	4219
8.483		738	1304
8.682		3481	7160

LANCASTER LABORATORIES

Sample Number: AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:06:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.025.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.007		16035	19019
2.054		41151	27853
2.156		17083	12019
2.239		19201	31361
2.271		3147	2844
2.299		456437	297252
2.364		3212	4722
2.412		13572	17068
2.479		4362	2939
2.494		13761	13249
2.527		14506	14392
2.545		53034	27949
2.571		147595	88631
2.592		3102	1212
2.615	TCX	28606420	16561320
2.658		248180	194796
2.786		912757	582957
2.832		242205	108892
2.846		599657	311179
2.898		2771218	1672720
2.948		72760	42752
2.987		6327	2911
3.009		143599	86678
3.086		5630	2719
3.105		920442	452925
3.116		317046	112597
3.156		138385	108392
3.177		85245	49603
3.203		314203	178367
3.227		1339343	879204
3.263		60034	35644
3.291		129800	65083
3.31		354594	182395
3.325		296564	145768
3.355		5219	2767
3.375		810076	352519
3.385		1507265	645072
3.405		51107	18150
3.418		1198255	799661
3.493		1472147	917591
3.528		847493	530724
3.552		998344	551907
3.57		331832	169775
3.656		1175078	759110
3.678		402038	221903
3.7		389493	223041
3.728		266938	134193
3.745		1054047	626924
3.786		376268	275048
3.834		70622	48998
3.855		701464	437401
3.878		1331220	846427
3.903		1244278	761213
3.922		51805	21258

RT B	Compound B	Height B	Area B
3.94		34131	18176
3.961		28739	13146
3.976		239314	151665
4.011		769312	536638
4.039		544526	331786
4.074		53249	67826
4.121		147816	120274
4.154		15472	9268
4.177		228877	159296
4.21		143242	96454
4.238		372428	275339
4.277		10551	10249
4.315		40522	20751
4.332		144562	94854
4.367		42311	29383
4.399		244472	175371
4.422		8809	3649
4.442		119785	84097
4.467		40344	25086
4.49		19941	13099
4.568		61036	87352
4.618		233396	185423
4.67		234544	187064
4.697		53473	42755
4.729		9620	4779
4.768		13538	13244
4.842		13149	20919
4.868		4330	4982
4.919		31417	24578
4.943		17803	12556
4.988		32215	36899
5.03		7326	5355
5.064		174059	142957
5.113		41987	34621
5.186		404596	350869
5.304		3130	2254
5.329		14515	12942
5.373		38763	41300
5.529		470566	398756
5.597		543706	461216
5.646		140000	124920
5.751		10839	8895
5.903		4111	3556
5.951		229364	201810
5.983		6409	4208
6.003		4269	2839
6.11	DCB	18891000	16397950
6.292		5816	10326
6.562		15023	17271
6.715		1423	786
7.332		1381	3828
7.427		1586	1537
7.546		1876	3219
7.681		1144	8275
7.715		1590	1479
8.217		16578	27774
8.468		1431	1779

AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082

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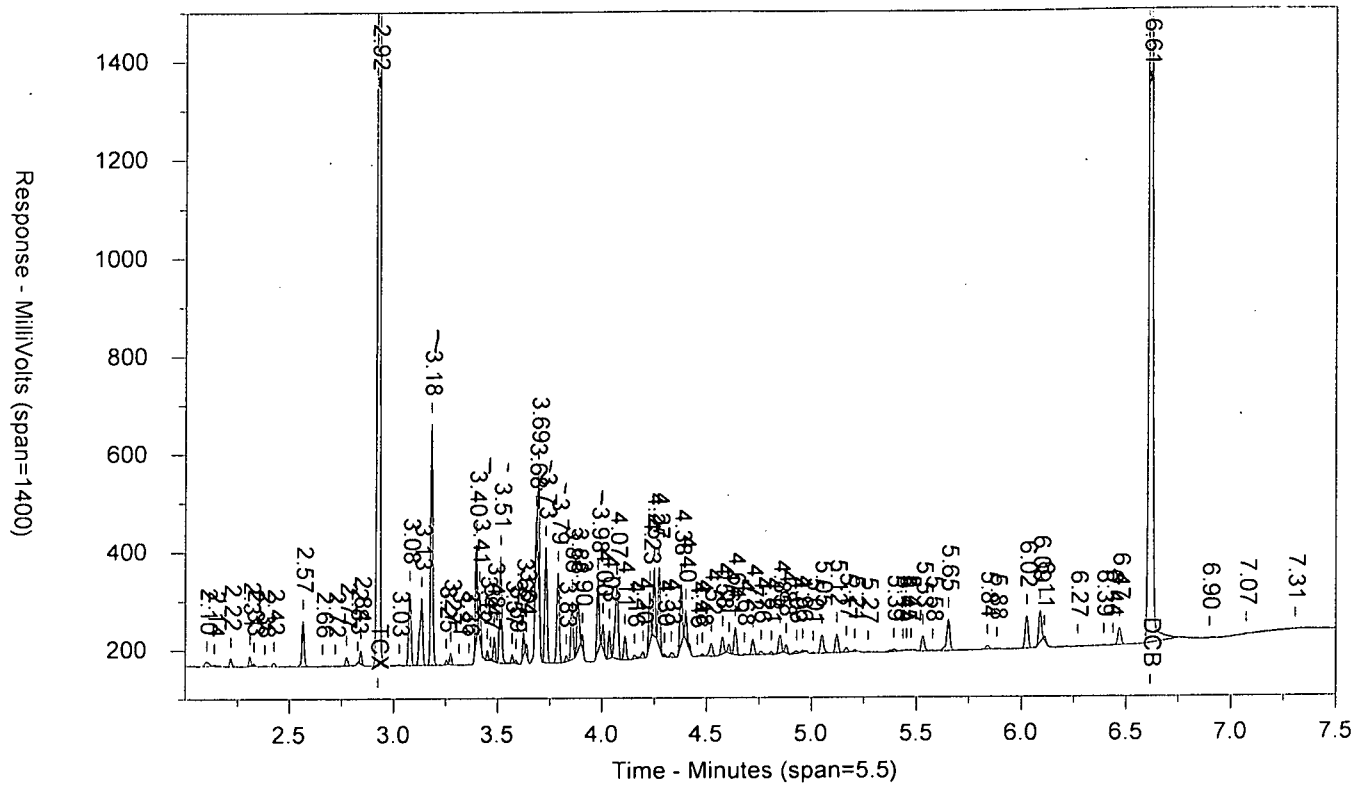

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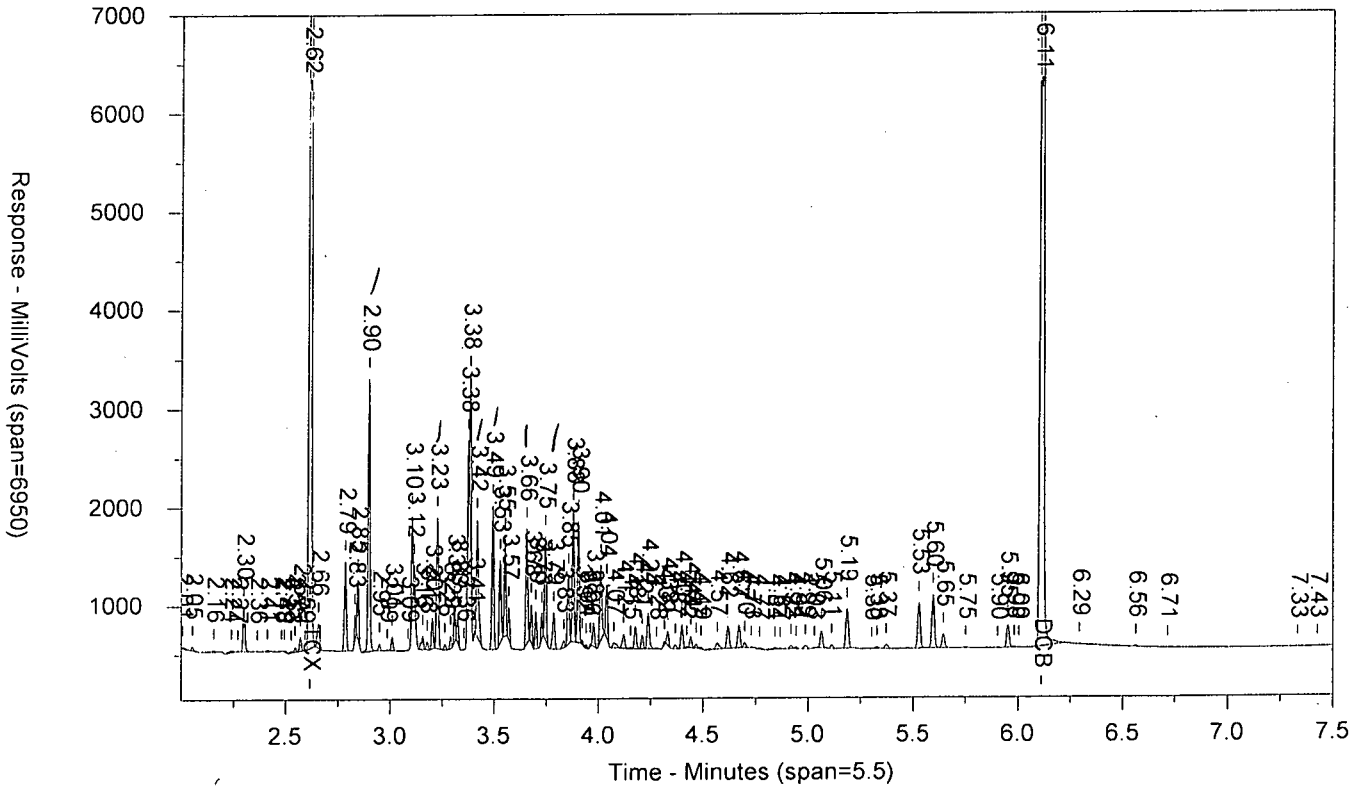

LANCASTER LABORATORIES

Sample Number: AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:06:30 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4693937	41.305	TCX	2.615	28606420	41.38	TCX
6.615	2695301	39.167	DCB	6.11	18891000	38.776	DCB

Files:
Area File: 20pcbs17137001.025.RAW
Area File: 20pcbs17137001B.025.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:15:15 PM
File Reported On: 5/17/2017 at 9:15:22 PM

AR3231724A AAAR323AA ICAL 1713699999 10736 SW-846 8082

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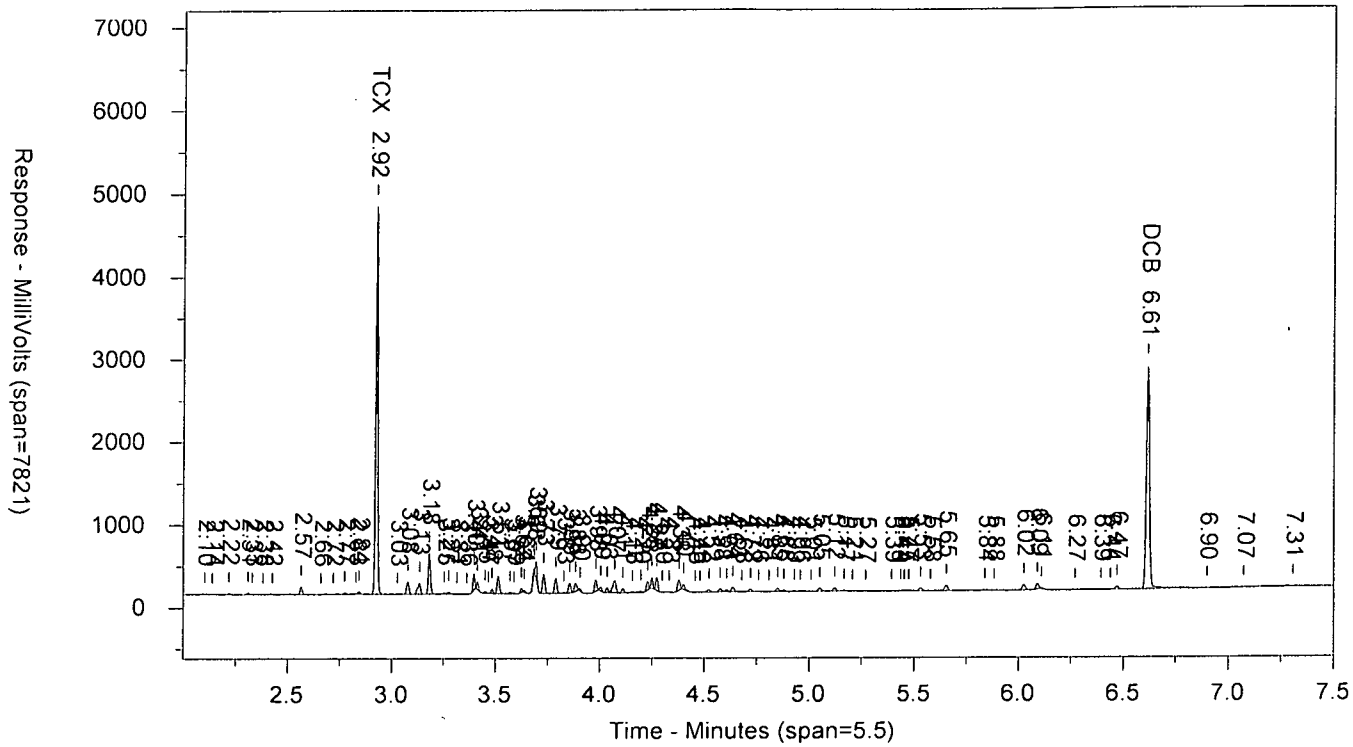

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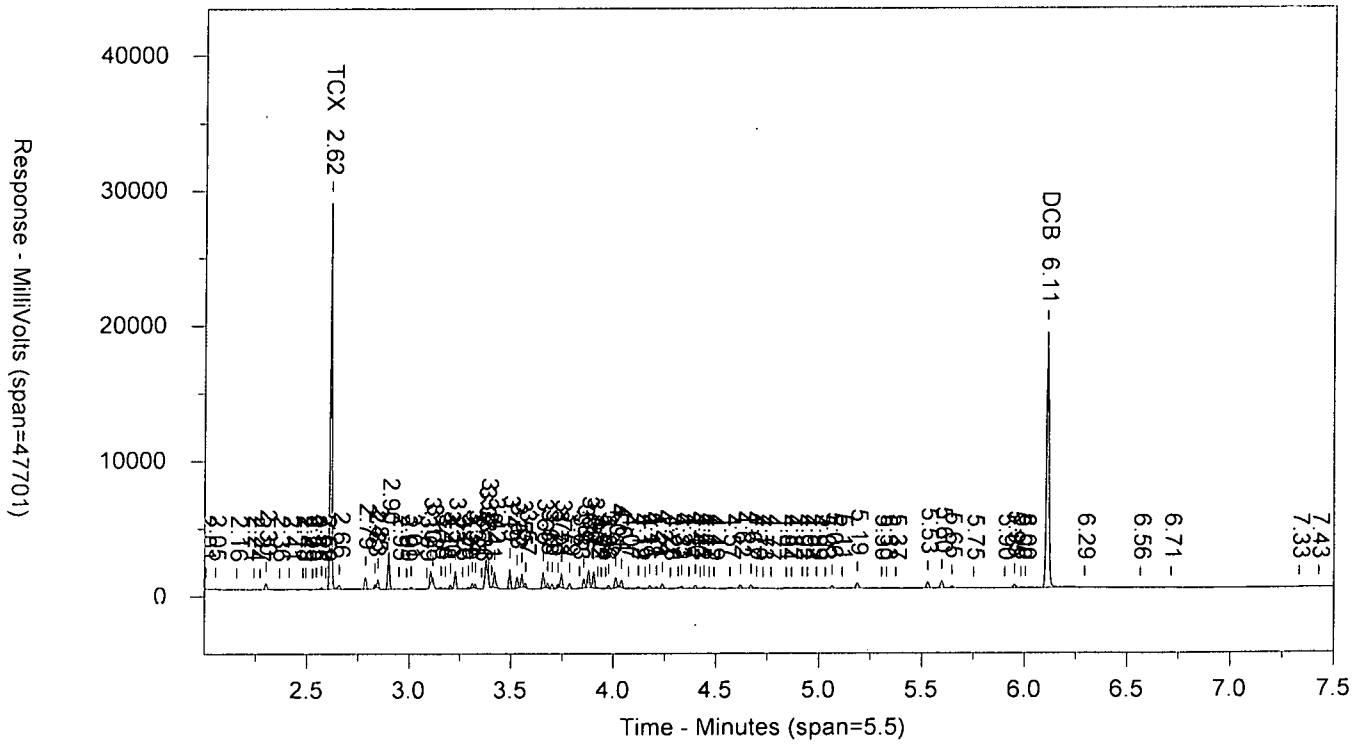

LANCASTER LABORATORIES

Sample Number: AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:17:58 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.026.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.013		804	1563
2.103		3352	5432
2.217		16133	12696
2.309		7766	4695
2.328		5537	3478
2.38		1337	1490
2.424		2991	2549
2.502		2872	1923
2.549		1140	493
2.565		4340	2884
2.662		1552	1668
2.774		6971	5628
2.827		2023	1268
2.923	TCX	4631099	3086027
3.026		1126	564
3.076		73236	62529
3.132		81517	92374
3.181		351560	252396
3.253		8727	4925
3.274		44051	29288
3.313		1130	915
3.396		347157	206579
3.412		150754	79157
3.45		37706	22135
3.466		13267	5559
3.482		28312	16391
3.513		380135	283125
3.549		1514	814
3.568		14507	8357
3.587		19165	11315
3.622		76340	44692
3.637		37618	18026
3.682		136418	84322
3.693		335248	178458
3.729		427632	324685
3.788		334814	255329
3.827		27962	19319
3.855		230132	167074
3.883		172185	146966
3.904		53361	28668
3.979		273708	195270
4.003		93073	60150
4.033		103220	77325
4.069		279736	288602
4.109		90820	74267
4.154		16918	12844
4.194		23649	19505
4.227		201017	138752
4.248		254188	163003
4.271		311358	220991
4.296		3285	1811
4.335		19768	25004
4.377		225958	189435
4.399		100309	87288

RT A	Compound A	Height A	Area A
4.456		3089	2194
4.478		10937	8065
4.521		56523	53480
4.573		80134	69974
4.604		46054	34082
4.634		127022	109073
4.682		1483	1158
4.72		63384	57552
4.757		5542	3834
4.807		14269	12802
4.848		95458	87025
4.879		20098	15687
4.929		9222	10197
4.956		6837	4940
4.974		4554	2920
5.004		3463	2955
5.048		92229	87351
5.09		2208	1441
5.119		39214	37097
5.165		23876	21005
5.205		3038	2148
5.375		8678	8885
5.43		1078	884
5.471		1065	678
5.529		31364	30375
5.574		6096	5096
5.651		55377	55329
5.689		1131	978
5.837		4254	5116
6.023		58405	58143
6.088		57343	51122
6.11		8961	5097
6.221		3585	18000
6.274		1239	2496
6.385		2035	2862
6.467		33888	35694
6.614	DCB	2951359	2880783
6.672		2260	2557
6.853		1077	444
7.072		2838	3906
7.343		1384	28021
7.818		664	1969
8.68		3324	3133

LANCASTER LABORATORIES

Sample Number: AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:17:58 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.026.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		2581	3497
2.054		39793	28734
2.118		3468	4422
2.157		7643	7965
2.186		2144	1006
2.204		20325	11353
2.238		11618	14156
2.272		3858	2859
2.3		26676	19751
2.34		2069	1198
2.41		10967	12148
2.453		2991	1591
2.476		4424	2819
2.529		13621	17031
2.546		25075	11997
2.571		9959	7830
2.615	TCX	27657480	16482220
2.658		153117	107887
2.704		5062	6848
2.785		455176	308119
2.833		258018	123128
2.846		325360	158120
2.898		1944532	1191914
2.948		67041	39764
3.009		250375	157207
3.067		1666	754
3.105		1590042	785119
3.116		538273	203353
3.156		253244	154327
3.177		157418	90314
3.203		205007	111447
3.227		2322301	1524464
3.263		144568	85674
3.291		103514	48978
3.309		592287	307414
3.325		382233	187710
3.353		5959	2604
3.375		1149152	513737
3.385		2651174	1120307
3.405		99681	39696
3.419		2283706	1518940
3.493		2610073	1583933
3.528		1644481	994787
3.551		1882698	1039464
3.569		631464	314126
3.655		2148996	1422633
3.677		773919	421048
3.698		787452	465017
3.728		519815	273301
3.745		1924911	1138926
3.785		691936	512848
3.832		144696	99743
3.854		1301849	823520
3.877		2567319	1627013

RT B	Compound B	Height B	Area B
3.902		2224092	1402401
3.922		111054	51885
3.94		97206	51692
3.96		48019	21116
3.976		523752	332815
4.011		1483237	1043618
4.039		1014942	603760
4.073		13474	8958
4.085		55766	31158
4.12		351308	272794
4.153		21781	12660
4.177		580706	437425
4.209		345104	238976
4.237		846849	604708
4.275		14412	14002
4.314		70534	37580
4.331		291070	191407
4.366		98269	70418
4.398		612854	448323
4.422		12300	5347
4.441		134424	88992
4.465		54171	31774
4.49		53181	39036
4.565		72847	65981
4.592		8926	4727
4.617		562128	441404
4.669		204960	162547
4.696		154251	137028
4.743		24886	18296
4.842		13453	19749
4.883		8808	6889
4.917		13833	9615
4.942		61480	48497
4.985		24305	24313
5.027		7496	4276
5.063		177404	140568
5.089		31445	20516
5.114		7132	4967
5.131		6889	4386
5.186		370585	313818
5.244		6540	6205
5.308		2479	2299
5.328		13893	47702
5.413		11014	40670
5.446		2161	2054
5.47		3711	3375
5.527		392424	342023
5.596		464362	410557
5.644		131930	120734
5.779		10583	30996
5.861		5706	18367
5.907		7326	7270
5.95		236363	198790
5.981		10782	7781
6.11	DCB	20304630	17259270
6.247		5015	4657
6.29		7104	25138
6.561		17587	16084
6.719		1275	1243
7.3		2053	1523
7.436		3326	10245
7.614		1745	2422
7.682		1695	3730
7.798		2004	2649
8.14		1621	1545
8.218		16549	31338

RT B	Compound B	Height B	Area B
8.664		4552	10743

AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082

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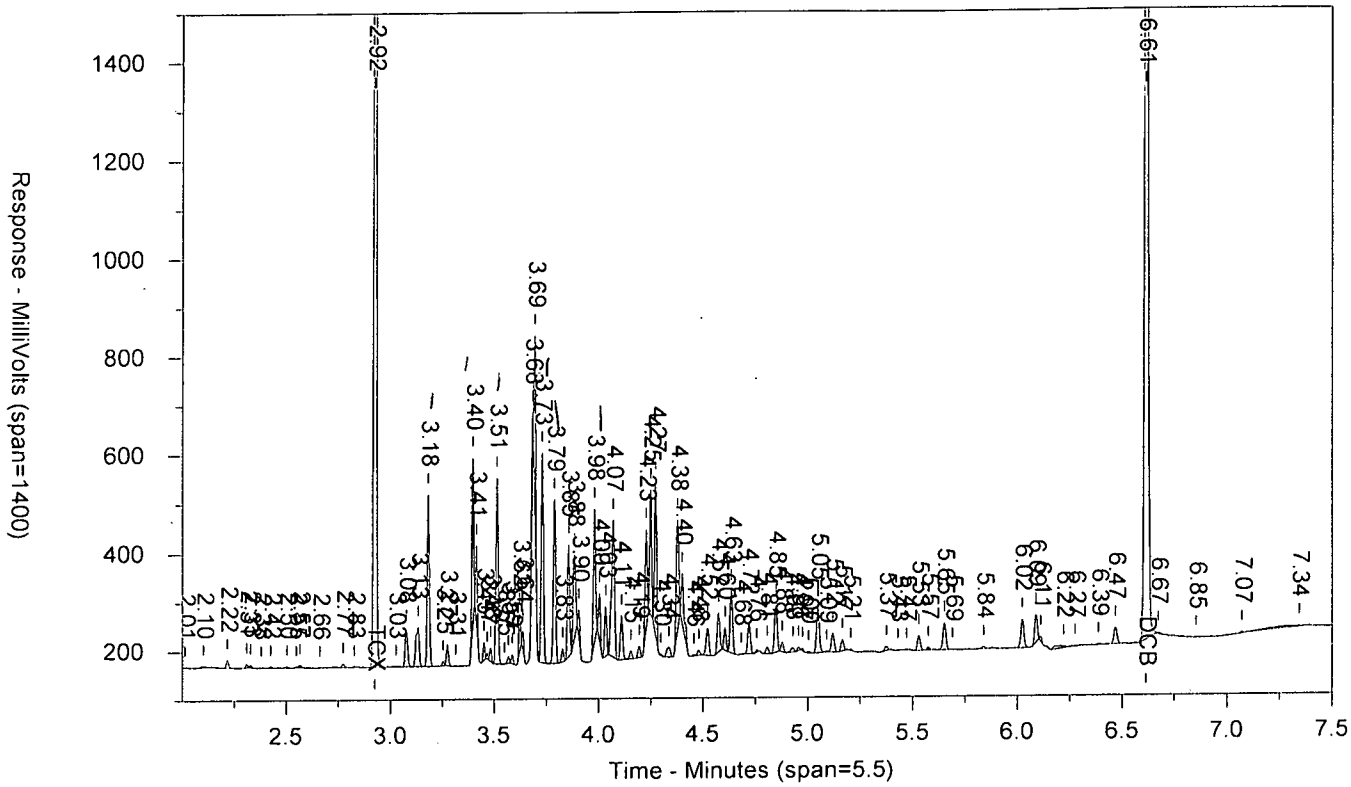

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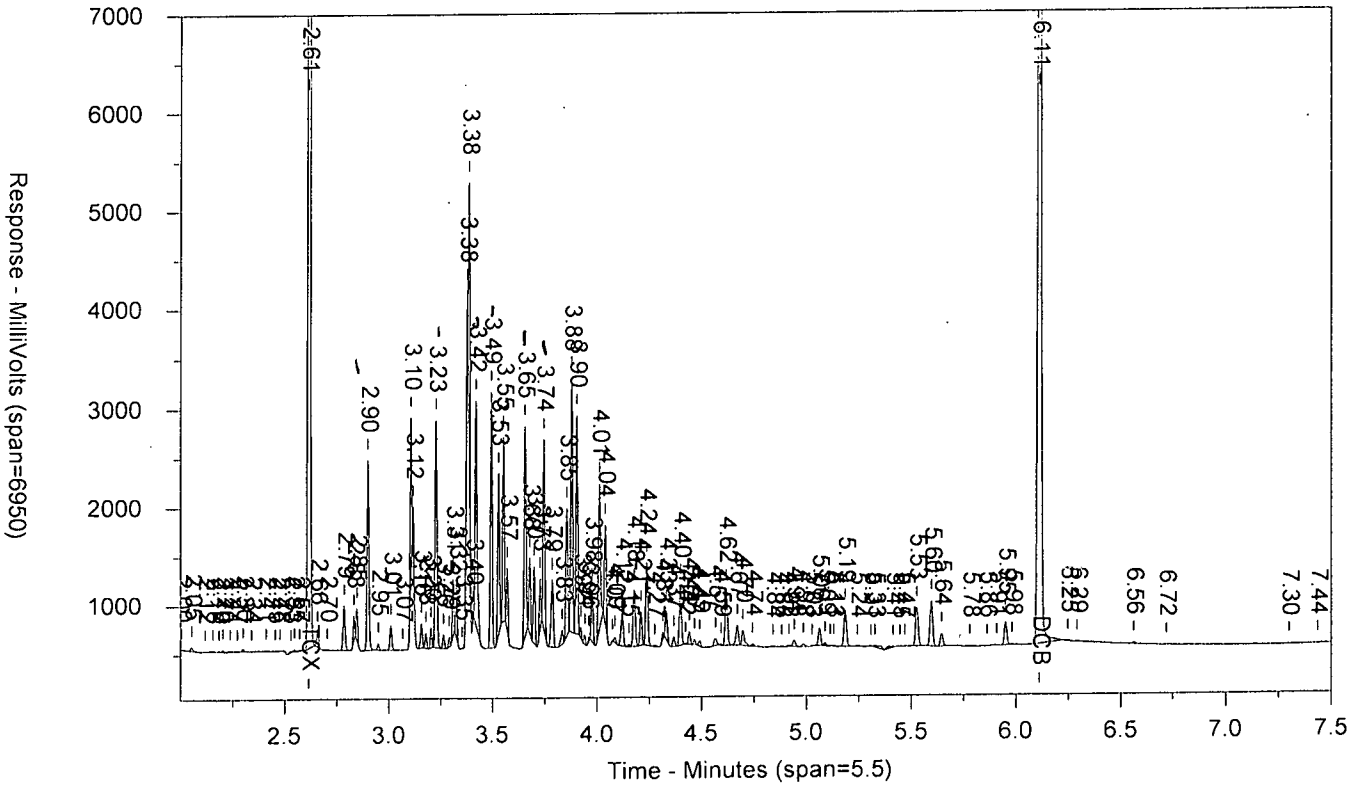

LANCASTER LABORATORIES

Sample Number: AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:17:58 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	4631099	40.752	TCX	2.615	27657480	40.007	TCX
6.614	2951359	42.887	DCB	6.11	20304630	41.678	DCB

Files:
Area File: 20pcbs17137001.026.RAW
Area File: 20pcbs17137001B.026.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:26:41 PM
File Reported On: 5/17/2017 at 9:27:00 PM

AR4231724A AAAR423AA ICAL 1713699999 10736 SW-846 8082

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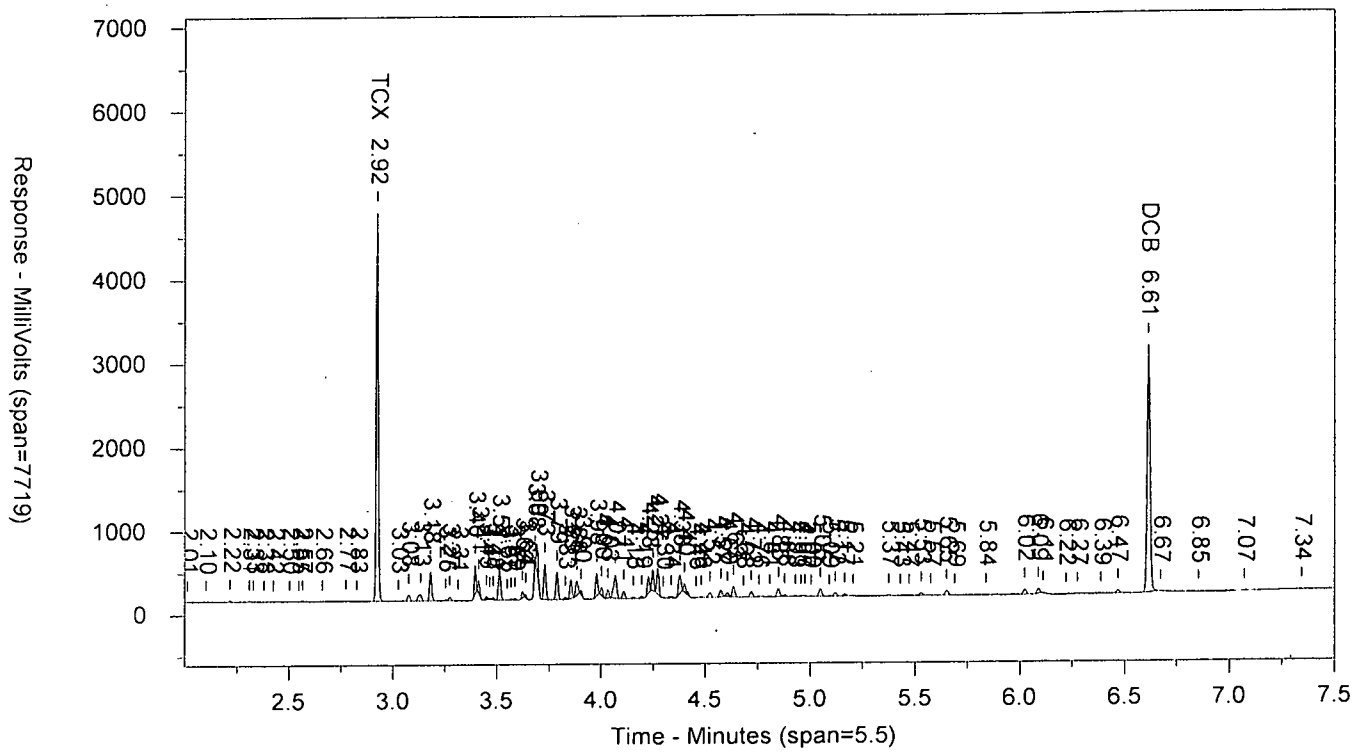

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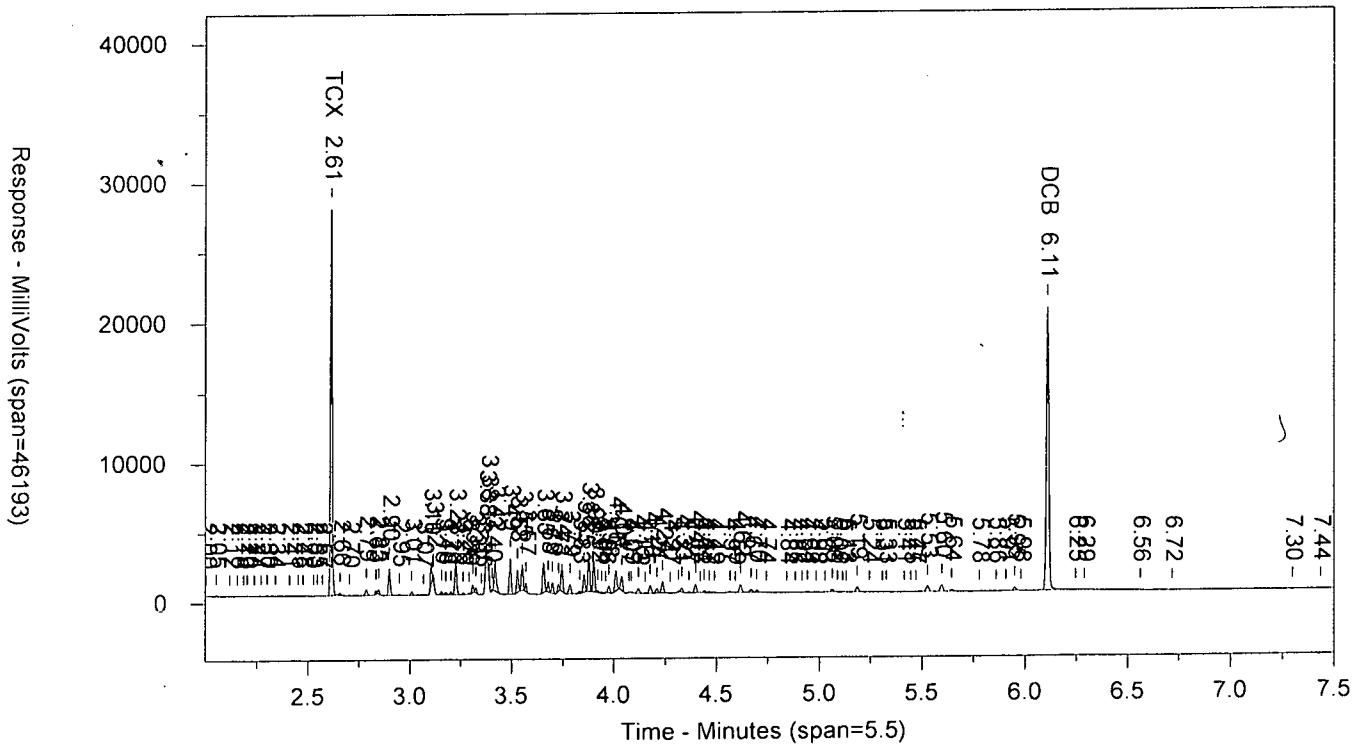

LANCASTER LABORATORIES

Sample Number: AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:29:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.027.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		4889	7813
2.139		1851	2705
2.217		19199	14201
2.309		12148	7366
2.328		6105	3623
2.379		1371	1706
2.424		5147	4349
2.516		981	658
2.549		1872	1159
2.565		4901	3139
2.66		1667	1567
2.704		702	410
2.774		23989	19834
2.825		2706	1640
2.923	TCX	5224759	3548644
3.025		1268	823
3.076		90159	75246
3.133		109020	114357
3.182		445984	329501
3.254		8790	4965
3.275		58183	39481
3.315		1854	1502
3.364		2753	1959
3.397		453276	278419
3.413		202653	108329
3.451		54012	30805
3.466		15689	6633
3.483		40338	23177
3.513		496854	387058
3.549		1657	860
3.569		18623	10777
3.588		14751	8961
3.624		102296	61212
3.638		50078	24074
3.683		207697	119414
3.694		496861	259672
3.73		567327	429415
3.789		451778	357624
3.828		38601	26847
3.856		305625	224342
3.884		241561	202067
3.905		74202	43235
3.98		361716	265499
4.004		127818	81966
4.034		145847	104677
4.071		361875	381648
4.11		120093	99399
4.156		16521	13349
4.195		23603	20816
4.229		137539	97962
4.249		115535	74984
4.273		102773	71797
4.298		5880	3842
4.336		3958	4670

RT A	Compound A	Height A	Area A
4.378		35483	30492
4.4		5347	2666
4.477		1188	789
4.52		4253	5884
4.573		4791	4614
4.636		1957	1888
4.721		1765	1311
4.852		1987	1916
4.881		23447	20161
4.921		3541	4478
5.007		1871	1330
5.048		1966	1742
5.068		2034	1279
5.121		42538	43106
5.167		1068	930
5.208		3415	3871
5.381		4060	12014
5.41		707	432
5.435		1987	2934
5.473		2209	3175
5.531		35965	35953
5.601		2942	3002
5.653		65990	65728
5.84		3553	4494
5.88		1709	2193
6.024		67035	65793
6.059		14061	10890
6.089		67559	57292
6.11		10948	7516
6.215		10541	27271
6.268		5106	10569
6.396		1286	1714
6.436		1222	830
6.469		39822	39844
6.615	DCB	3073630	3291043
6.744		1787	1469
7.076		2210	2430
7.349		957	29598
8.27		664	489
8.382		389	2275
8.516		893	316
8.682		1945	1638

LANCASTER LABORATORIES

Sample Number: AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:29:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.027.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		4806	5388
2.054		47727	31835
2.119		2968	2549
2.156		8100	8224
2.238		11418	19648
2.274		8915	4848
2.3		30225	19665
2.41		16923	16002
2.494		58836	128042
2.528		23384	29730
2.546		71819	43180
2.57		10616	6950
2.591		3117	1489
2.615	TCX	33005770	18905610
2.658		208709	141400
2.759		2510	1383
2.785		543149	356745
2.832		269827	128168
2.846		426091	214019
2.88		7167	3748
2.898		2553899	1541069
2.948		77157	44713
2.986		16085	8347
3.009		337620	204329
3.105		2190742	1071467
3.116		776859	300953
3.156		333749	212227
3.177		197679	112399
3.203		270556	151806
3.227		3271128	2083899
3.263		123465	68984
3.292		118383	56499
3.31		814505	424413
3.325		519971	252604
3.354		8914	4507
3.376		1594821	767255
3.385		3607330	1581576
3.405		127545	45747
3.419		3084391	1967532
3.493		3596888	2233229
3.528		2241483	1374788
3.552		2594920	1424190
3.57		829845	433870
3.656		3159143	1982421
3.679		1062224	575365
3.7		1014689	592834
3.729		723136	358352
3.746		2581542	1524135
3.786		905899	650725
3.834		117531	109881
3.856		684456	437119
3.878		1460233	934873
3.903		732663	440252
3.923		119634	62108

RT B	Compound B	Height B	Area B
3.94		19160	9489
3.963		8979	4460
3.977		57230	34585
4.012		82669	47155
4.026		83549	67338
4.075		53295	46877
4.111		5308	4710
4.134		5489	2739
4.154		35200	47106
4.208		18416	30989
4.239		15230	22220
4.313		4064	2606
4.333		10994	8342
4.371		5697	4423
4.399		11504	7518
4.442		164945	156782
4.532		2767	4081
4.569		7456	5152
4.623		21958	17795
4.645		11676	7333
4.672		161845	123152
4.722		5822	14334
4.745		9987	7295
4.766		3780	4382
4.817		3894	4328
4.844		12279	10847
4.918		13342	10620
4.944		7193	5219
4.986		25200	30280
5.03		6286	4064
5.064		217635	191208
5.107		3058	2260
5.186		438425	376586
5.307		3197	2344
5.33		7926	7137
5.373		7425	7810
5.429		3102	4005
5.475		2609	2718
5.528		493354	493265
5.597		588001	559750
5.646		179075	201452
5.751		3586	9793
5.843		6954	6775
5.905		5212	4809
5.951		270812	226300
5.982		7213	4774
6.004		4059	2985
6.074		2551	2110
6.11	DCB	22203290	19194930
6.208		5395	4375
6.289		4374	3813
6.339		3132	5276
6.562		18293	21632
7.434		1581	1603
7.734		2343	3142
7.849		2566	3980
8.223		17282	31577

AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082

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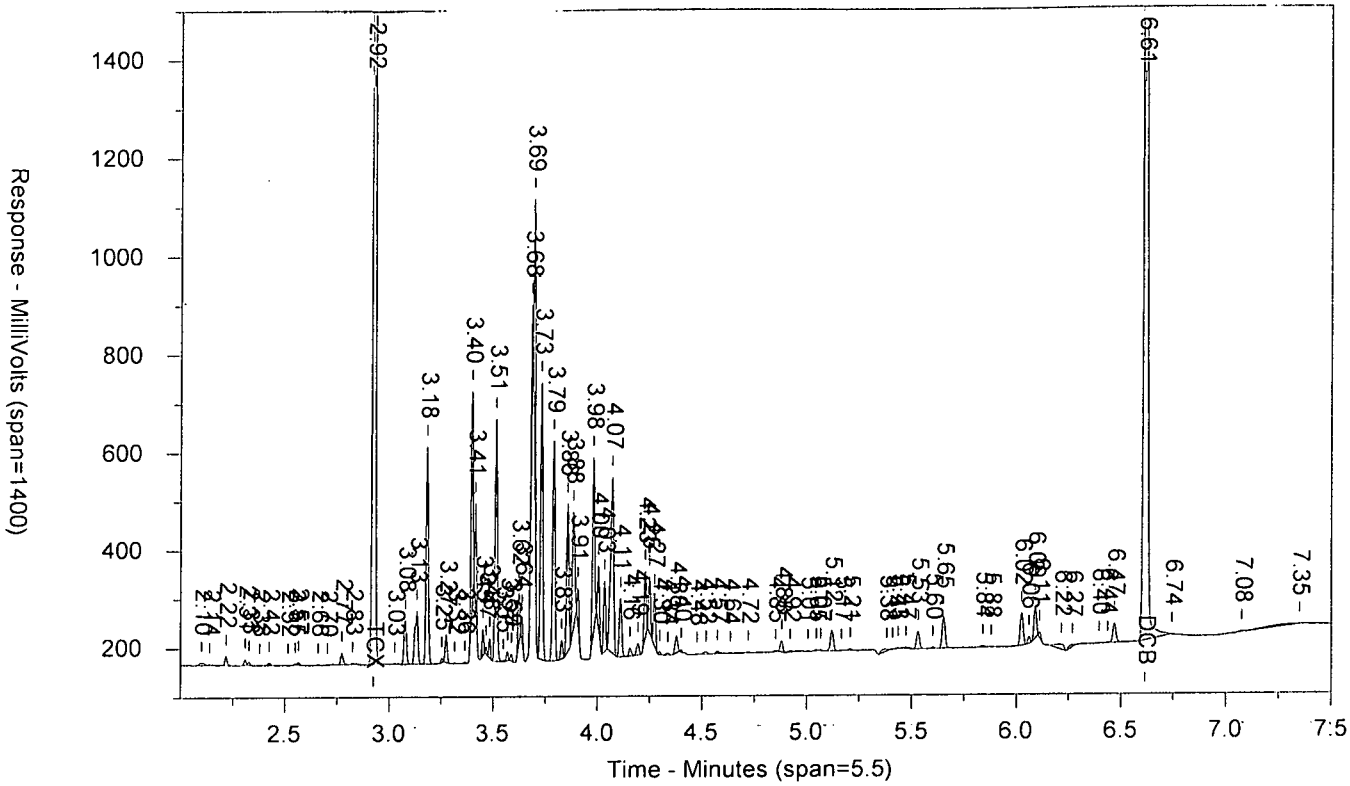

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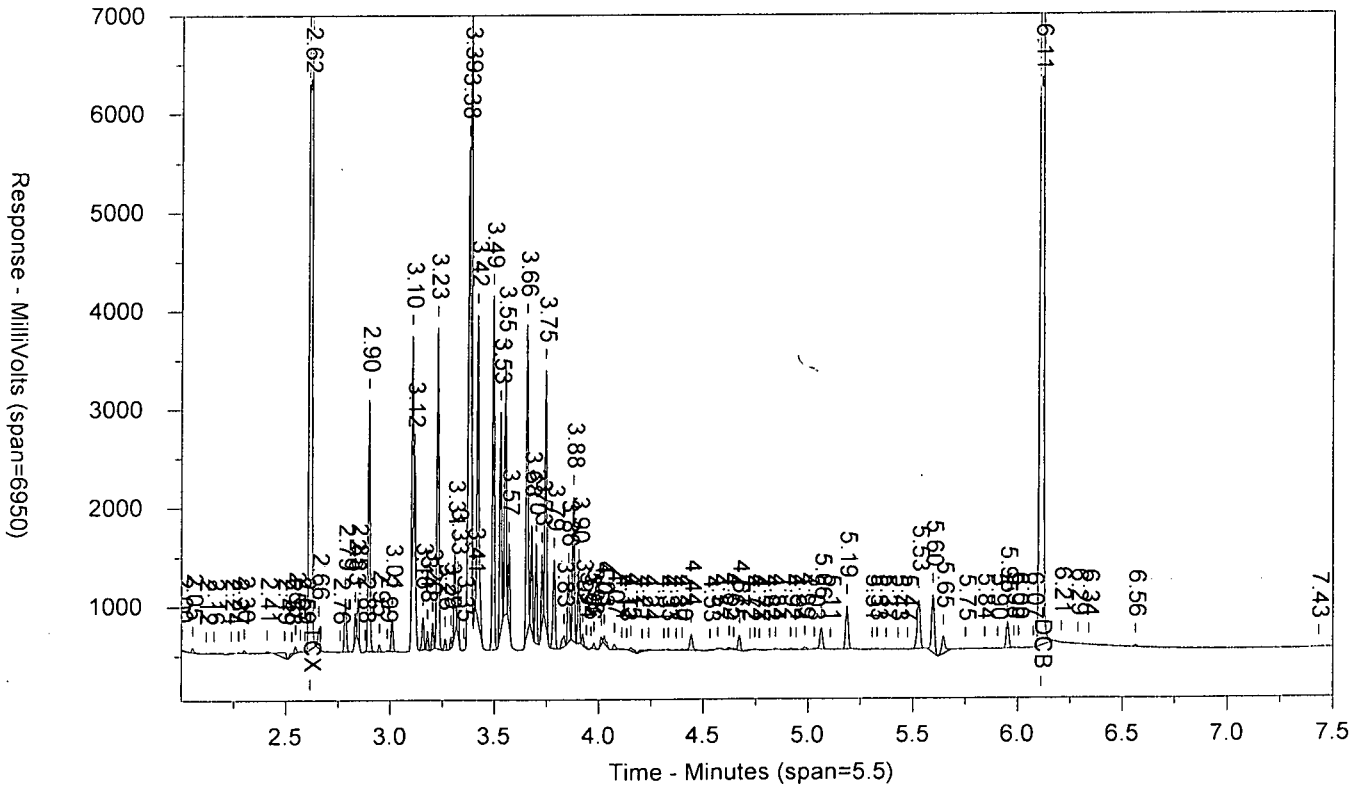

LANCASTER LABORATORIES

Sample Number: AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:29:27 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.923	5224759	45.976	TCX	2.615	33005770	47.744	TCX
6.615	3073630	44.664	DCB	6.11	22203290	45.575	DCB

Files:
Area File: 20pcbs17137001.027.RAW
Area File: 20pcbs17137001B.027.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:38:11 PM
File Reported On: 5/17/2017 at 9:38:18 PM

AR16XX1724A AAAR16XAA ICAL 1713699999 10736 SW-846 8082

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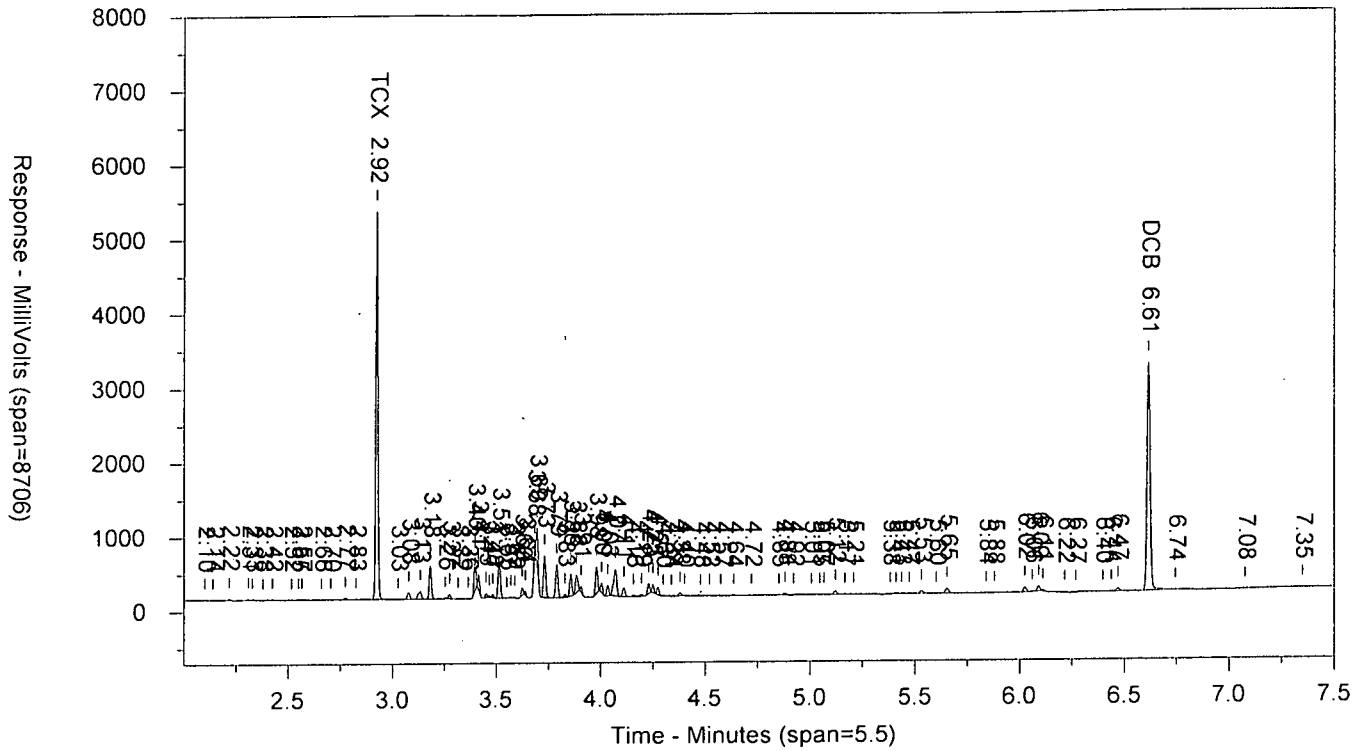

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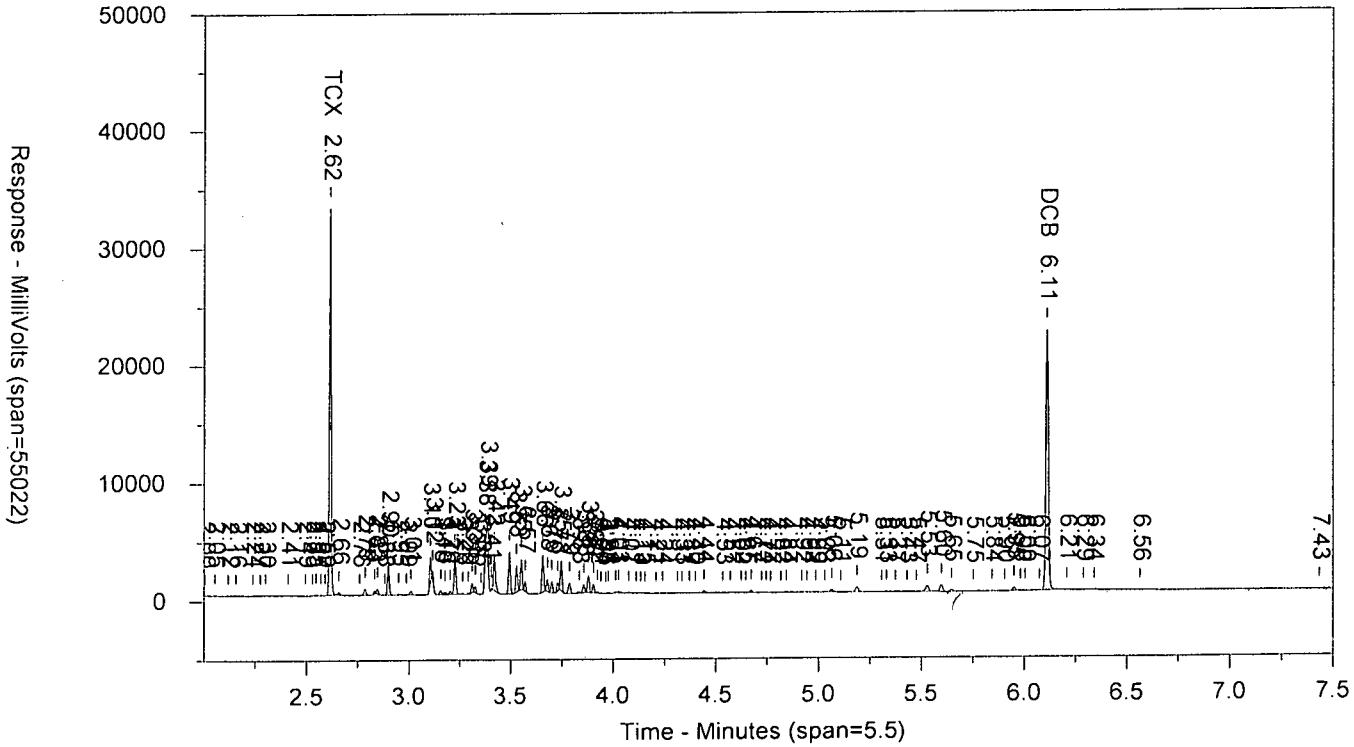

LANCASTER LABORATORIES

Sample Number: MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:40:56 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.028.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.103		4185	7401
2.137		1391	2197
2.31		20450	13886
2.381		1213	1703
2.423		3823	3776
2.549		2790	2133
2.66		1211	1012
2.733		1440	2133
2.774		11713	9206
2.829		4022	3779
2.924	TCX	104337	72458
3.076		4308	3729
3.135		5423	4779
3.182		28781	22230
3.274		2772	2062
3.364		1232	1233
3.397		30287	17941
3.414		12854	6524
3.452		2597	1525
3.484		1901	1199
3.513		31759	25785
3.588		1024	854
3.624		5639	3136
3.668		4004	2265
3.683		14489	7286
3.694		28054	13422
3.73		32426	23976
3.789		25170	18483
3.829		1608	1038
3.856		20196	15239
3.883		14311	11705
3.906		3657	1904
3.98		21330	14896
4.003		6545	4073
4.035		7484	4997
4.07		20566	21314
4.11		5903	4965
4.175		843	771
4.194		2148	1609
4.229		24690	17860
4.249		5718	3227
4.271		4859	3220
4.299		8295	7885
4.338		2960	2639
4.383		27292	25020
4.481		659	634
4.518		5642	7516
4.575		2535	1450
4.59		5359	3437
4.635		16654	14294
4.681		23515	25893
4.72		5401	3728
4.757		54488	50525
4.8		1156	1167

RT A	Compound A	Height A	Area A
4.849		8808	10228
4.905		10306	11094
4.958		62920	78591
5.007		12191	10661
5.05		28920	31826
5.128		6253	8159
5.166		66848	65079
5.227		35367	30563
5.271		21012	21020
5.393		43290	67039
5.451		21444	19900
5.491		10146	9063
5.533		4148	4107
5.577		14111	12728
5.632		88125	93491
5.839		49417	54830
5.892		14476	28099
6.024		2768	3220
6.089		2112	1559
6.111		9173	9127
6.21		8288	24685
6.268		25759	31422
6.314		2032	2478
6.404		1026	1322
6.471		5184	5662
6.616	DCB	73233	76478
7.393		848	59496
8.025		465	945
8.163		613	930
8.312		913	1807

LANCASTER LABORATORIES

Sample Number: MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:40:56 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.028.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		4977	7558
2.114		3388	4692
2.156		13835	35727
2.239		13347	25117
2.301		2268	2249
2.343		2174	1886
2.412		16988	17076
2.476		4048	2808
2.495		11128	9800
2.527		8650	8843
2.546		40077	21128
2.574		2893	3357
2.591		4253	2379
2.615	TCX	634514	365193
2.659		11545	9286
2.697		6686	9607
2.785		28157	18500
2.832		4802	2198
2.846		30918	18989
2.898		167049	111881
2.985		6077	3720
3.009		19093	11158
3.105		143686	71120
3.116		46250	18325
3.157		11553	6963
3.178		14753	10082
3.202		17305	9333
3.227		203321	131696
3.264		7850	4050
3.279		4940	1670
3.31		43655	21110
3.325		115084	61585
3.354		5593	2627
3.375		123175	52857
3.385		207631	86152
3.418		195415	141939
3.493		207284	130396
3.528		158422	94870
3.552		172829	96128
3.57		48518	22938
3.656		187525	120123
3.678		73118	41610
3.7		64543	40300
3.728		44934	22479
3.745		148941	87768
3.786		51369	37895
3.829		11141	11637
3.855		37155	22849
3.877		201499	133386
3.903		40282	22538
3.923		6333	3027
3.94		25749	15107
3.976		178760	122151
4.01		8429	5118

RT B	Compound B	Height B	Area B
4.025		14188	8891
4.074		54168	46662
4.112		8093	4563
4.176		35294	21572
4.221		30461	17572
4.238		43607	21118
4.251		103873	56493
4.276		66204	66069
4.33		362834	275442
4.372		7336	6615
4.399		36966	24780
4.423		79399	58941
4.466		408948	324377
4.526		3971	4442
4.568		322761	328412
4.622		40934	30517
4.658		92399	78858
4.697		387388	340203
4.729		202040	142597
4.768		140512	112872
4.842		5659	8125
4.867		39116	27102
4.919		254328	200179
4.942		36370	23329
4.993		134403	122325
5.028		65858	54879
5.059		47881	40847
5.09		21367	12287
5.113		508939	435556
5.154		12382	8865
5.185		27951	22650
5.305		6296	4250
5.328		118448	96990
5.373		317703	352812
5.528		19472	20452
5.572		11481	8726
5.596		37901	46975
5.646		85827	120960
5.696		2541	2214
5.752		140954	117357
5.783		8283	5699
5.833		4212	3805
5.917		3148	2585
5.951		40935	33426
6.109	DCB	492123	455333
6.232		1616	1149
6.307		1788	2164
6.717		2632	3516
7.556		1816	4284
8.222		16408	31334
8.363		1344	2515

MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082

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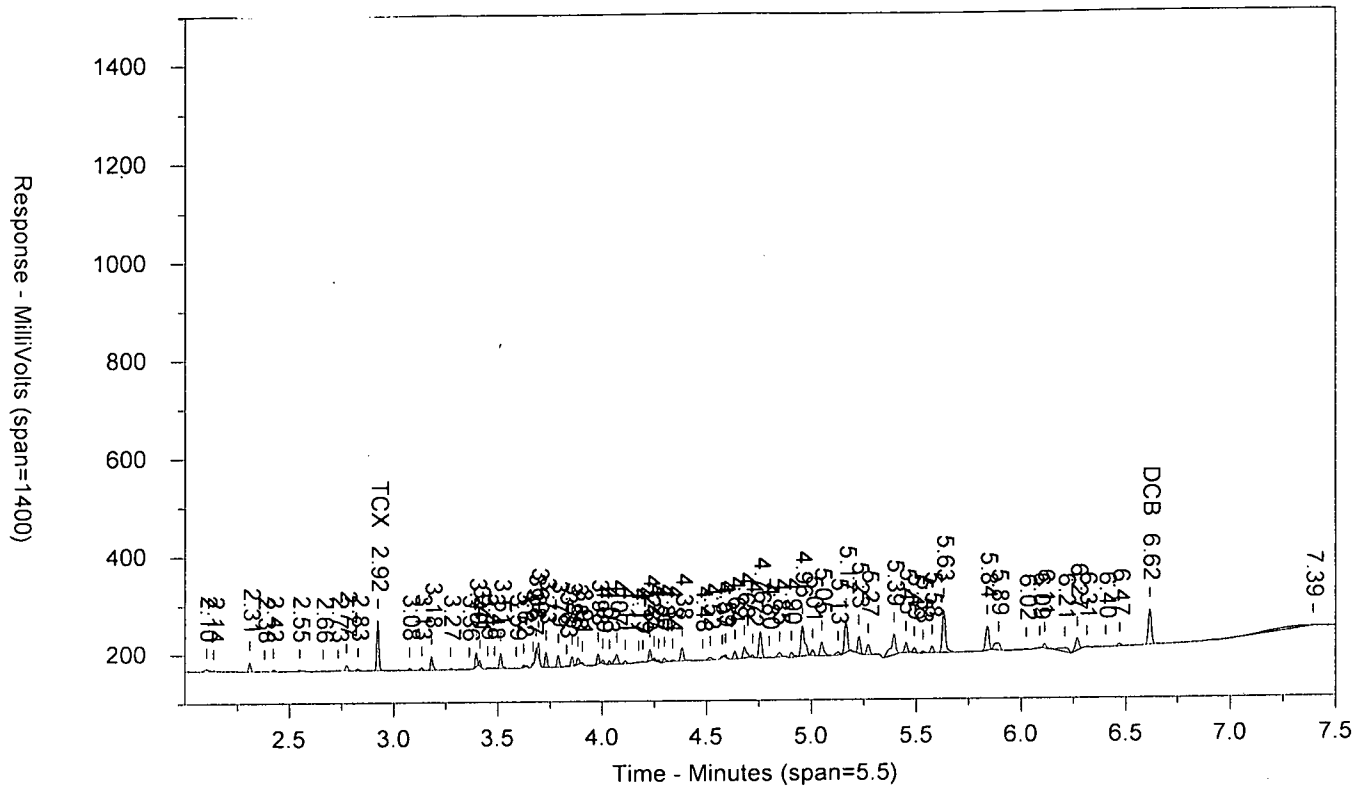

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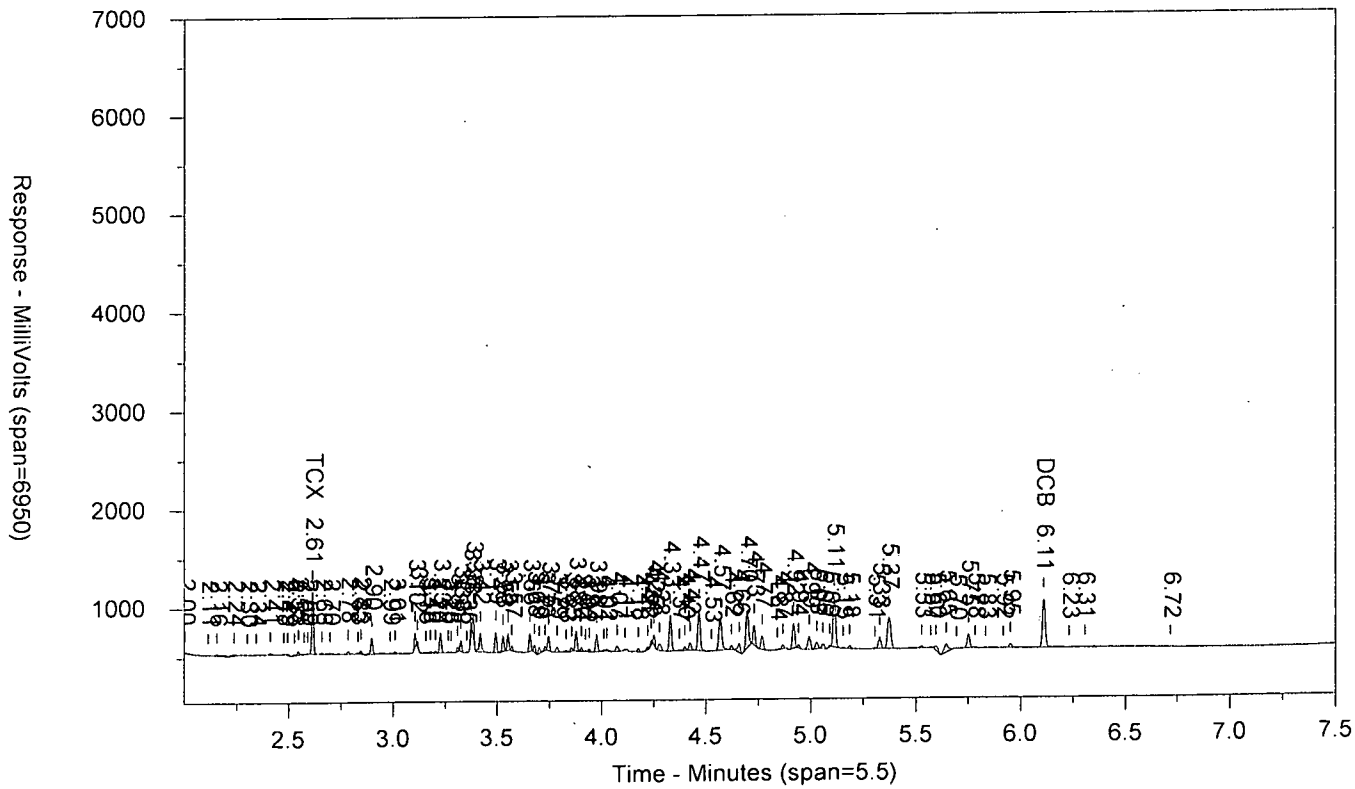

LANCASTER LABORATORIES

Sample Number: MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:40:56 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	104337	.918	TCX	2.615	634514	.918	TCX
6.616	73233	1.064	DCB	6.109	492123	1.01	DCB

Files:
Area File: 20pcbs17137001.028.RAW
Area File: 20pcbs17137001B.028.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 9:49:40 PM
File Reported On: 5/17/2017 at 9:49:47 PM

MD16X1724A AAMD16XAA ICAL 1713699999 10736 SW-846 8082

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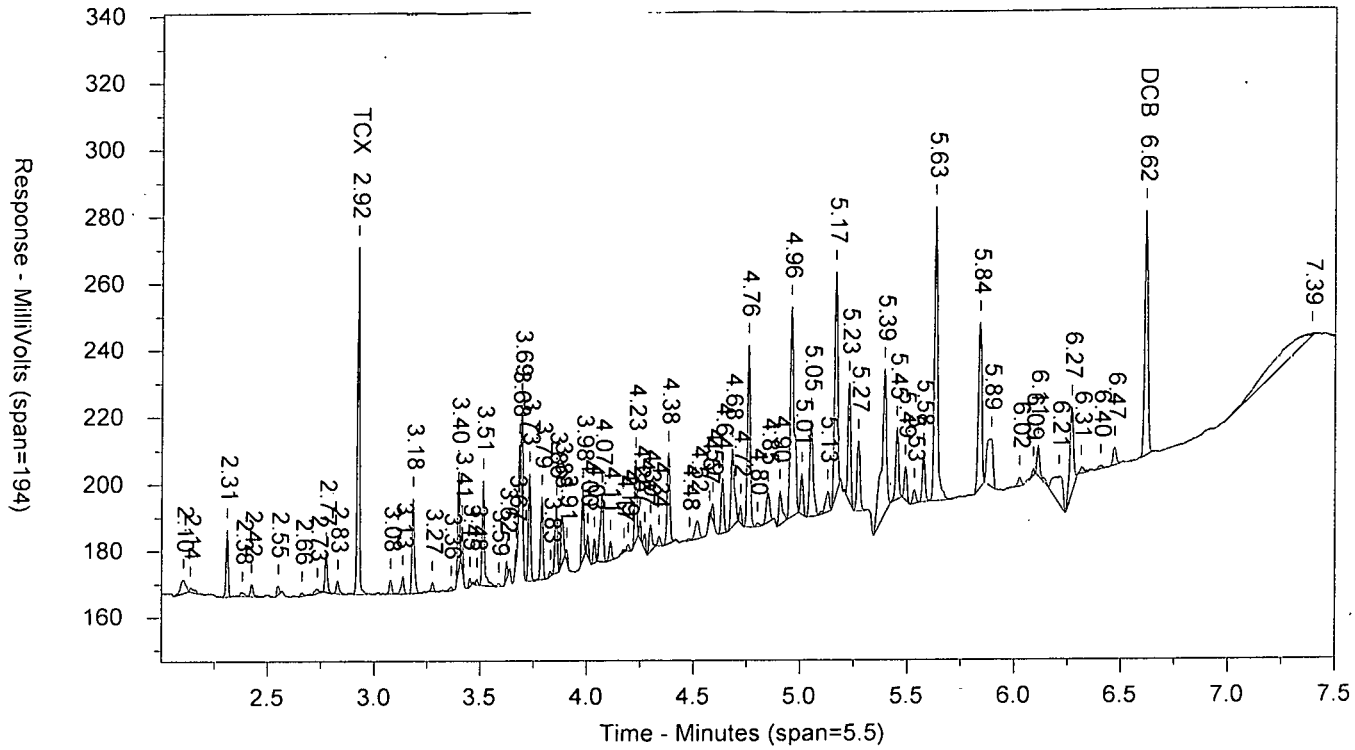

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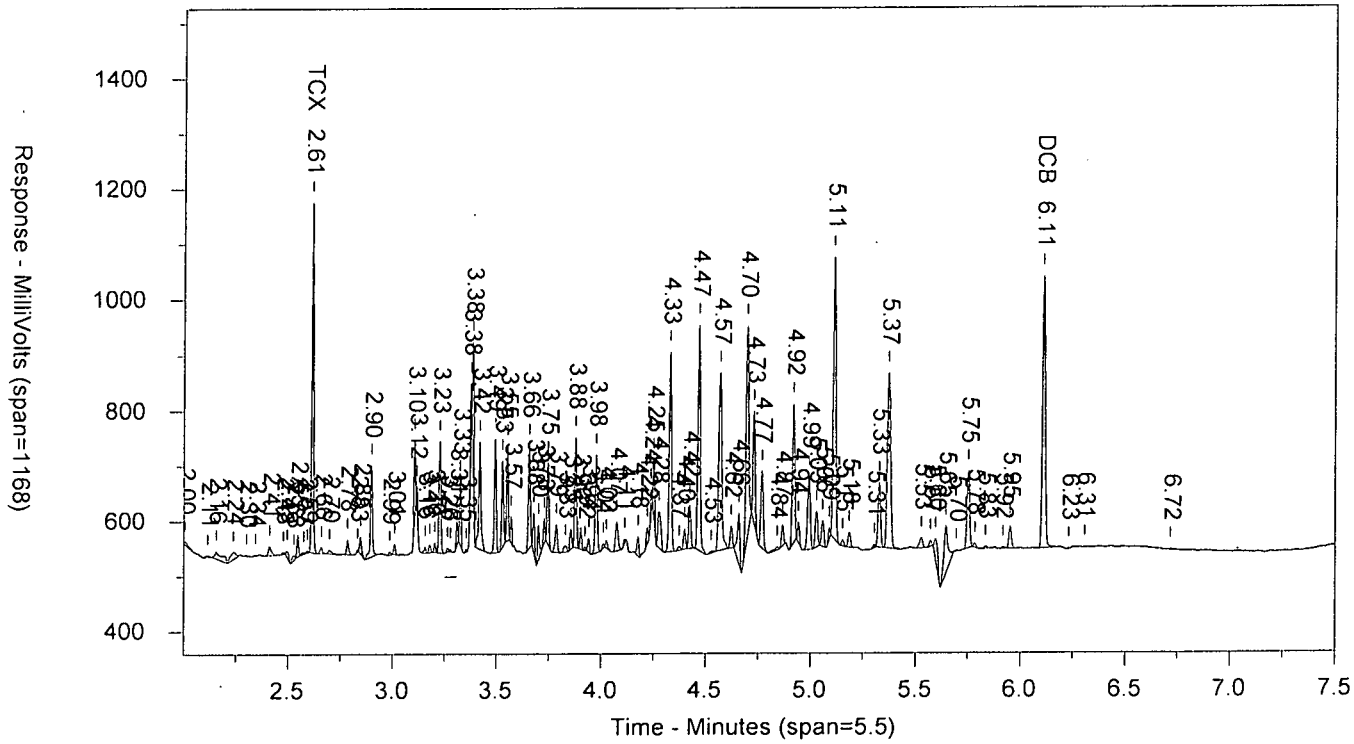

LANCASTER LABORATORIES

Sample Number: IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:52:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.029.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		4145	7393
2.218		16329	12322
2.31		15571	9620
2.329		5136	2848
2.425		3178	2462
2.477		682	477
2.549		1336	802
2.565		4305	2706
2.662		1476	1269
2.722		1219	1494
2.774		19187	15104
2.827		3141	4168
2.924	TCX	4551063	3097022
3.027		1300	1089
3.077		83039	68084
3.133		95784	101172
3.182		413957	299018
3.255		8554	4764
3.275		58253	37747
3.315		2169	1553
3.397		441475	268126
3.414		200931	108215
3.451		51791	28920
3.466		16225	6763
3.483		35602	20736
3.513		477936	361818
3.548		1791	882
3.568		15852	9345
3.587		17790	10553
3.624		101206	56475
3.638		45944	22623
3.683		213347	117389
3.693		432008	222623
3.73		524621	403718
3.789		438907	337817
3.829		35479	25213
3.855		299635	223771
3.883		230688	197487
3.905		61746	33518
3.98		339457	248242
4.004		112799	73126
4.034		126128	90734
4.069		276720	296565
4.11		83987	67329
4.156		8080	5433
4.193		12491	9319
4.228		278314	217359
4.249		41931	22721
4.272		53194	36848
4.296		5011	3540
4.339		47497	40483
4.382		353620	319831
4.417		8058	5054
4.478		5336	4526

RT A	Compound A	Height A	Area A
4.518		75626	77681
4.575		22432	16064
4.589		89237	63378
4.635		209937	181477
4.681		365470	401217
4.718		84519	60221
4.757		811353	757113
4.799		14470	13208
4.847		104233	117864
4.88		24300	16962
4.905		135115	120639
4.957		914616	1167754
5.007		182793	164319
5.051		432552	482880
5.093		6392	3689
5.128		101935	126398
5.165		1057748	1147151
5.228		530716	479808
5.272		324601	317313
5.37		40906	40543
5.393		574254	513012
5.451		288129	287075
5.491		153608	136319
5.532		60338	57041
5.575		192782	189781
5.632		1436554	1545983
5.719		1630	1454
5.839		822771	837952
5.877		83157	90553
5.892		64520	41466
6.024		82656	82942
6.089		60810	45940
6.11		134248	110511
6.269		332981	335409
6.315		22389	21103
6.468		139690	145971
6.616	DCB	2535823	2688722
6.749		1530	1210
6.928		913	2541
7.074		1822	2632
7.366		996	29821
7.936		545	391
8.042		374	1596
8.259		609	2206
8.312		614	677
8.679		3250	3523

LANCASTER LABORATORIES

Sample Number: IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:52:27 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.029.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		2031	1614
2.054		39027	25088
2.154		9637	11183
2.202		7431	3158
2.238		11306	24866
2.3		27691	19311
2.363		10712	9522
2.411		11060	12621
2.453		4274	2683
2.493		4184	4867
2.527		7091	5872
2.546		63717	39538
2.57		6048	3355
2.589		2261	1136
2.615	TCX	28492550	16492770
2.659		187694	130399
2.696		4728	5946
2.786		499892	333586
2.833		249664	115034
2.846		373180	183501
2.899		2304468	1411858
2.949		66527	39761
3.009		322351	200613
3.105		3059895	2910779
3.156		324246	205947
3.178		195573	109861
3.203		247132	135742
3.227		3037760	1956622
3.264		137142	84912
3.292		101802	48906
3.31		755081	396456
3.325		478599	237411
3.352		5799	2630
3.375		1893682	817239
3.385		3433151	1490273
3.405		121398	48762
3.419		2958058	1915810
3.493		3505199	2106020
3.528		2204346	1354987
3.552		2625198	1427468
3.57		781834	400828
3.656		2817777	1834185
3.678		1019792	535067
3.699		942233	542867
3.728		663838	337417
3.745		1940989	1077435
3.786		621078	438756
3.833		131300	119734
3.855		267377	167491
3.877		2257443	1485614
3.902		343667	203551
3.923		48229	22951
3.941		309922	187917
3.976		2259513	1542534

RT B	Compound B	Height B	Area B
4.01		112149	68577
4.025		153732	97275
4.073		42070	27066
4.112		369094	377199
4.154		35386	20837
4.177		556668	378318
4.22		595693	363388
4.238		396997	197630
4.251		1733271	981147
4.277		1003132	995926
4.329		5612597	4135813
4.372		115793	110012
4.399		387839	257561
4.423		1141861	807237
4.442		39685	14346
4.466		6334442	4707600
4.518		3792	2124
4.569		5133244	4908144
4.622		648667	541488
4.66		1451879	1276893
4.697		6161358	5131987
4.729		3278786	2279513
4.767		2237805	1690688
4.829		8065	9237
4.867		794830	763743
4.918		4212881	3299150
4.942		452315	287772
4.992		2107478	1945486
5.028		1036344	831428
5.059		841636	746072
5.09		262451	155070
5.112		9220518	7486408
5.153		180800	138445
5.186		626744	538893
5.304		106323	64997
5.328		1888249	1567116
5.373		6206865	6538494
5.49		5643	3494
5.528		565995	498753
5.572		134535	92914
5.596		505308	412923
5.645		1141401	993373
5.752		2288098	1926846
5.783		125352	91151
5.951		954898	841165
6.003		3244	1855
6.067		3491	2388
6.11	DCB	17578490	16215750
6.288		10422	18386
6.343		3440	4073
6.562		13078	14394
7.552		1731	3028
7.68		1743	2044
8.223		16889	32104
8.305		1474	1191

IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082

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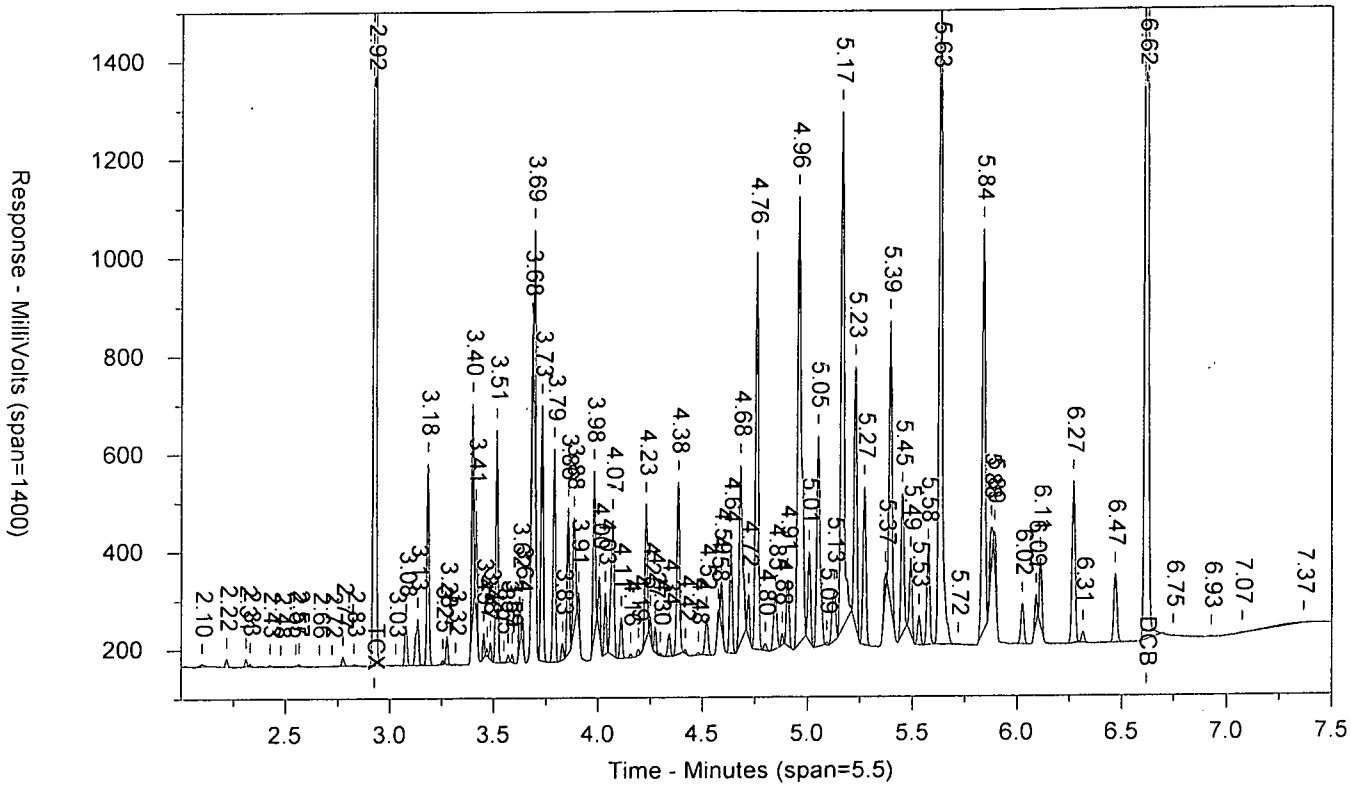

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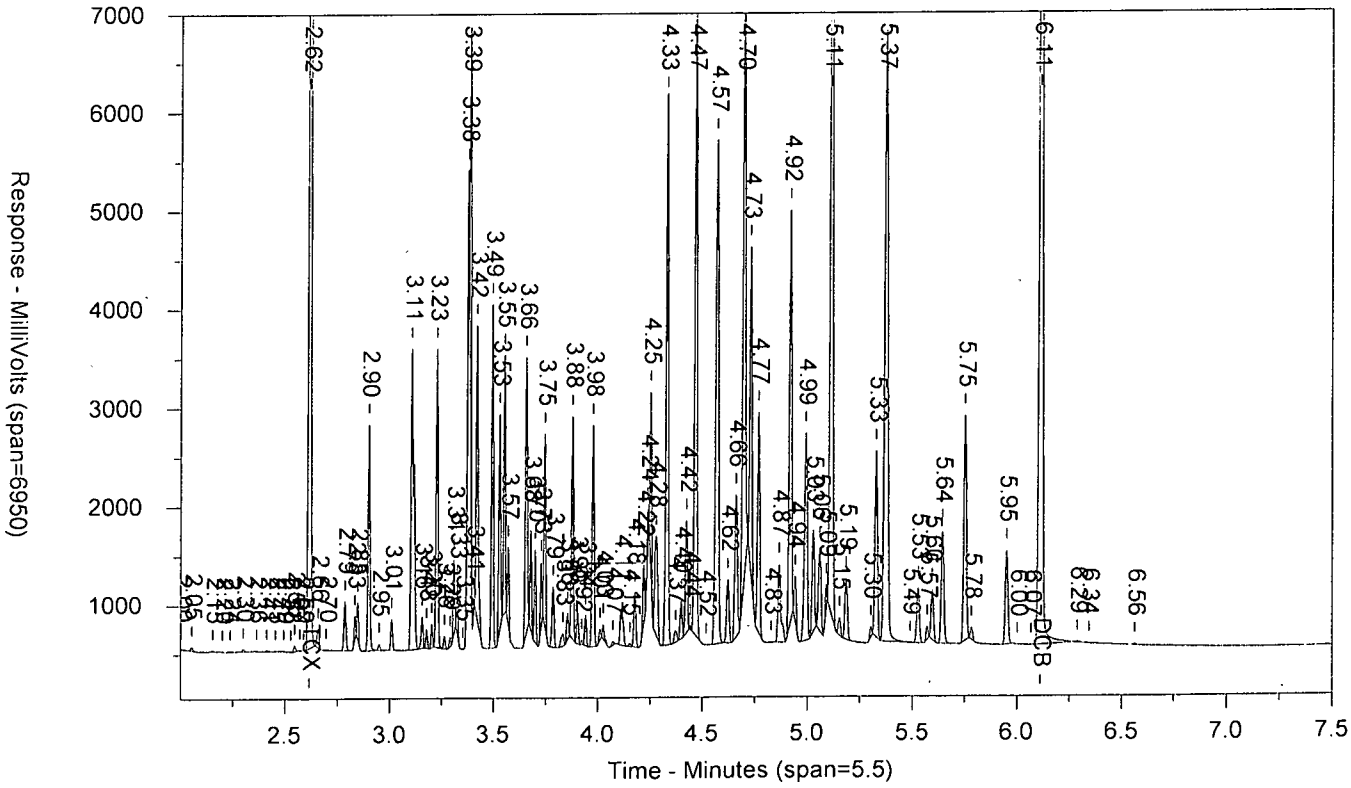

LANCASTER LABORATORIES

Sample Number: IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 9:52:27 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4551063	40.048	TCX	2.615	28492550	41.215	TCX
6.616	2535823	36.849	DCB	6.11	17578490	36.082	DCB

Files:
Area File: 20pcbs17137001.029.RAW
Area File: 20pcbs17137001B.029.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 10:01:12 PM
File Reported On: 5/17/2017 at 10:01:19 PM

IC16X1724A AAIC16XAA CCAL 1713699999 10736 SW-846 8082

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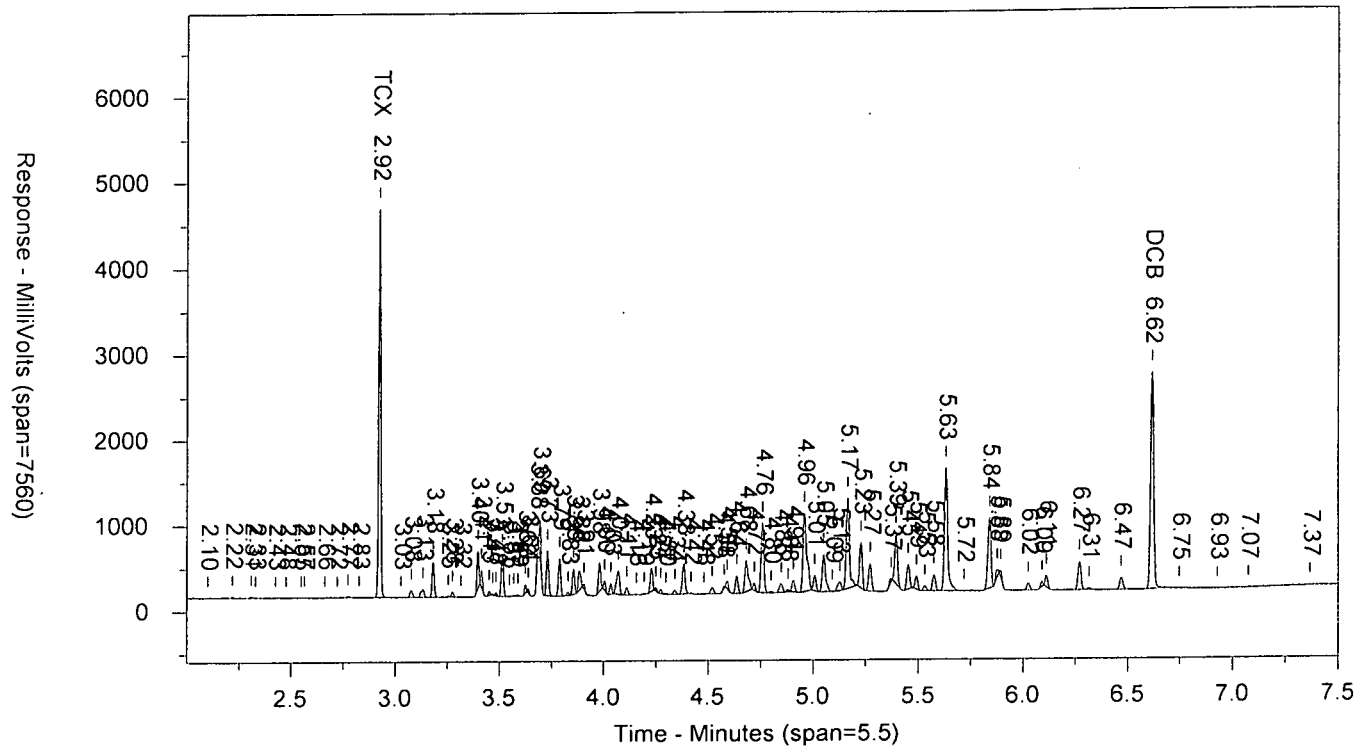

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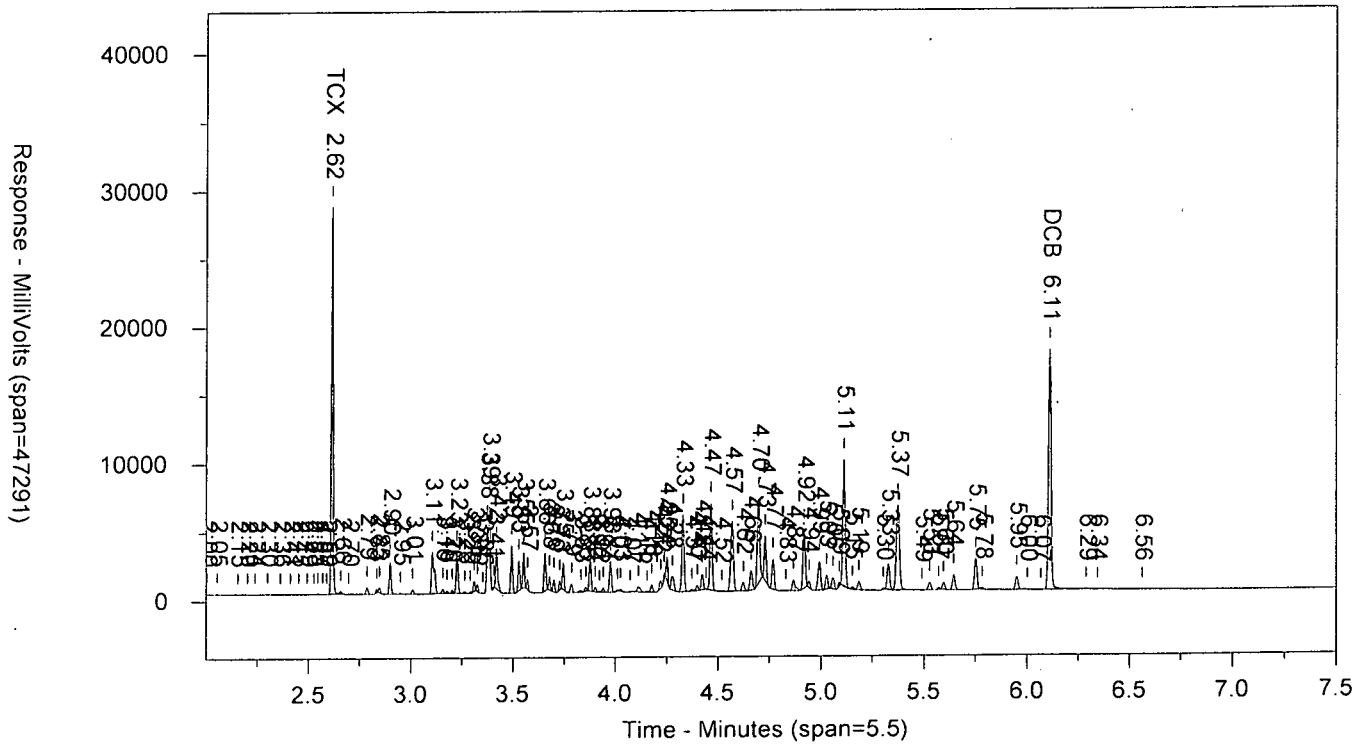

LANCASTER LABORATORIES

Sample Number: IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:03:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.030.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		5699	11729
2.218		15839	11993
2.31		26424	16117
2.329		4749	2434
2.425		3699	2888
2.461		1015	1816
2.504		1214	824
2.551		1792	1273
2.568		1119	617
2.774		24697	20662
2.83		3005	2835
2.924	TCX	4670822	3112688
3.011		1011	455
3.078		17019	14495
3.123		61768	47158
3.182		67573	47290
3.254		9214	5427
3.275		13748	8640
3.397		216984	132408
3.414		60198	31898
3.451		13230	7593
3.467		4670	2140
3.483		2607	1352
3.514		185744	140699
3.569		16545	9272
3.587		13304	7723
3.624		35009	20169
3.638		8116	3713
3.683		164778	89431
3.694		155074	78604
3.73		233498	185672
3.788		228655	183968
3.829		36509	25209
3.856		422380	311718
3.882		276602	228113
3.905		91117	50228
3.98		487449	361536
4.004		137486	88978
4.034		179679	130271
4.07		437553	402626
4.11		148088	115578
4.156		15570	12124
4.195		42958	36990
4.228		409490	285788
4.249		504872	331505
4.272		559698	403331
4.339		51076	46814
4.378		481994	418729
4.4		124790	67493
4.416		67294	37840
4.457		8487	5563
4.479		27675	21943
4.522		147163	137185
4.574		220103	188411

RT A	Compound A	Height A	Area A
4.605		128116	94872
4.635		370920	326558
4.68		4021	2759
4.72		149165	131081
4.757		26934	33569
4.808		37186	32815
4.85		249869	235021
4.88		14927	11176
4.929		21153	25154
4.957		16563	11171
4.974		14648	9995
5.007		1762	1487
5.05		249636	241666
5.092		5152	3898
5.12		38392	38231
5.166		57734	54684
5.205		5316	3437
5.271		1666	1231
5.376		25033	31672
5.452		2295	1769
5.472		1047	599
5.531		29311	28817
5.575		11706	11001
5.601		2582	1671
5.652		52811	61163
5.837		8910	9630
5.881		2455	3745
6.023		57077	57591
6.058		841	428
6.088		58445	51718
6.11		9729	6860
6.269		2045	1780
6.333		3308	3746
6.394		1014	1049
6.469		35272	36479
6.614	DCB	2599218	2640538
7.073		2158	2743
7.384		995	35518
8.048		708	679
8.26		455	1025
8.682		3598	4551

LANCASTER LABORATORIES

Sample Number: IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:03:57 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.030.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		4566	3995
2.054		48370	59889
2.118		12201	31041
2.156		9722	8504
2.203		11605	5430
2.238		11976	17842
2.273		3344	3748
2.301		4143	3803
2.368		1640	1551
2.411		11919	14148
2.477		3673	2743
2.547		74267	45740
2.571		2777	1850
2.615	TCX	28874900	16630890
2.659		18640	9314
2.704		11286	9031
2.787		112745	79835
2.833		365177	250986
2.899		357208	233817
2.949		70899	40916
2.984		2217	1322
3.01		85953	52431
3.106		1429669	1234427
3.157		90785	52767
3.178		58744	35659
3.203		28398	14940
3.227		1162137	768872
3.265		108594	66149
3.292		112278	57964
3.31		235762	119534
3.326		246238	129225
3.352		3063	1379
3.385		2874083	3150144
3.406		256313	109567
3.419		1158385	703721
3.494		1856379	1134735
3.529		3171716	1907711
3.552		2981381	1645904
3.57		986457	502050
3.656		4027090	2517047
3.678		1207439	652251
3.7		1241430	757492
3.729		632548	313698
3.745		2953178	1681835
3.786		1077676	754721
3.833		227977	190642
3.855		2343196	1426325
3.878		5638245	3511222
3.903		4046498	2476343
3.922		296772	146527
3.941		274610	154064
3.977		1561507	1097562
4.011		2844540	2116021
4.039		1600916	879574

RT B	Compound B	Height B	Area B
4.086		212159	187035
4.121		965383	720037
4.153		18178	9461
4.178		1596694	1175299
4.21		958765	656671
4.238		2456050	1783526
4.276		43156	39569
4.316		48412	29918
4.331		837631	600239
4.367		253342	184913
4.399		1634433	1220287
4.423		41349	19132
4.442		96960	61178
4.466		159838	102613
4.491		132991	94958
4.565		232409	234900
4.618		1604069	1281938
4.67		199702	189706
4.697		412022	357279
4.744		46952	32327
4.768		9192	7050
4.841		10707	19808
4.884		21112	17977
4.918		24118	16574
4.942		150408	118913
4.987		25357	28498
5.027		10430	6995
5.063		170850	132520
5.089		63427	43271
5.112		31787	20771
5.157		9547	6628
5.186		351372	307670
5.305		2150	1362
5.328		18894	15861
5.371		51515	53786
5.446		1799	1164
5.527		402473	352402
5.596		475819	417419
5.645		150937	136841
5.751		11138	9351
5.951		254951	212555
5.981		4576	3000
6.005		2945	1952
6.071		2138	1649
6.11	DCB	18498500	15732180
6.302		3108	2386
6.561		14401	18084
7.309		1790	2024
7.483		1824	2569
7.553		1792	3545
7.785		2101	9732
8.22		16520	29425

IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082

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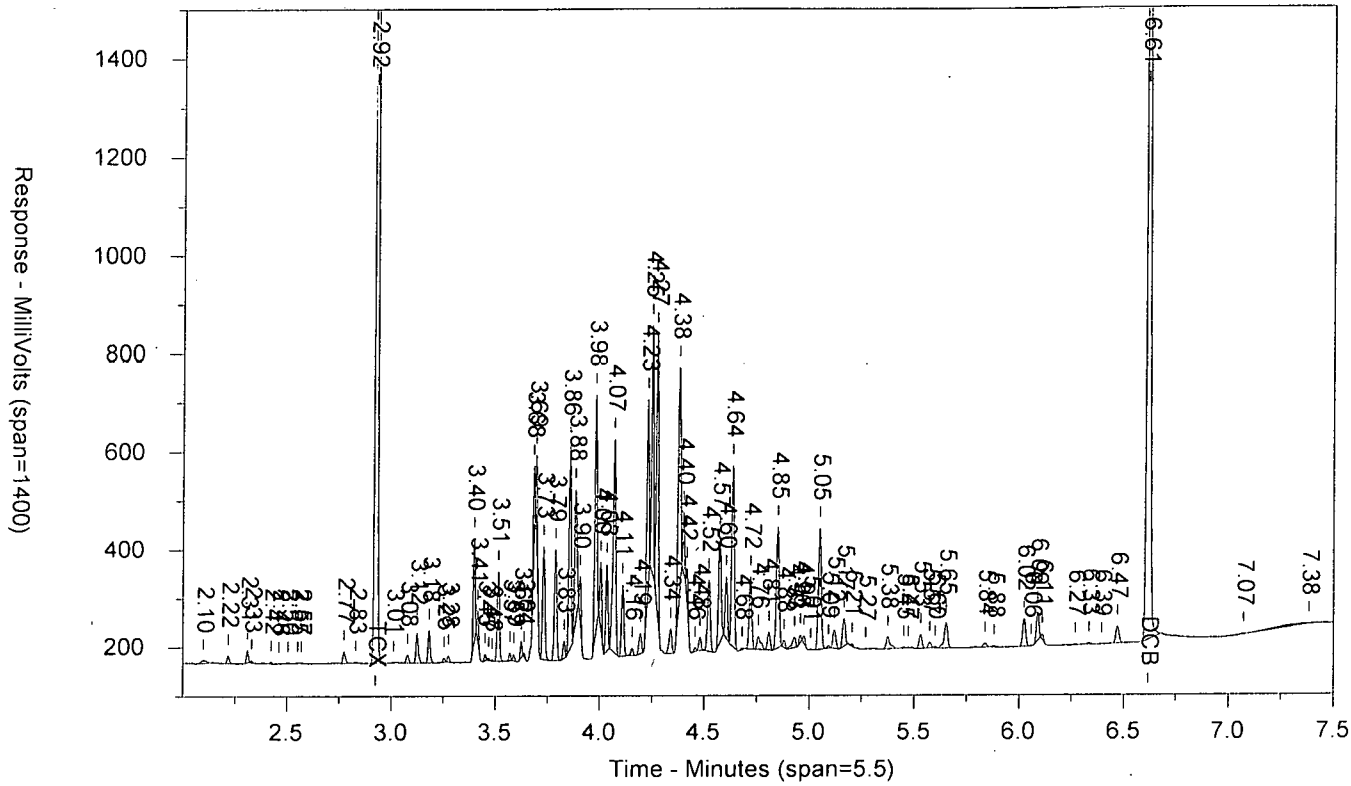

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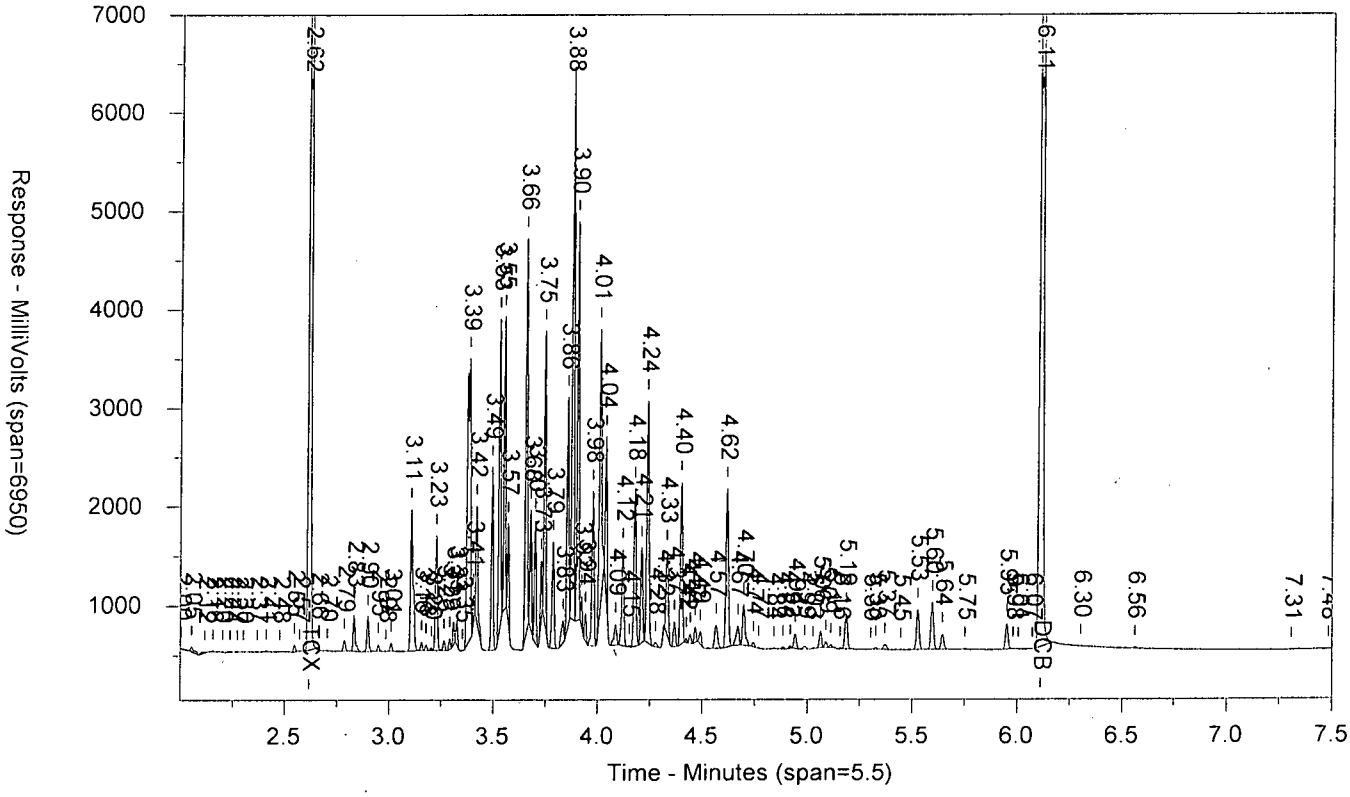


LANCASTER LABORATORIES

Sample Number: IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:03:57 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

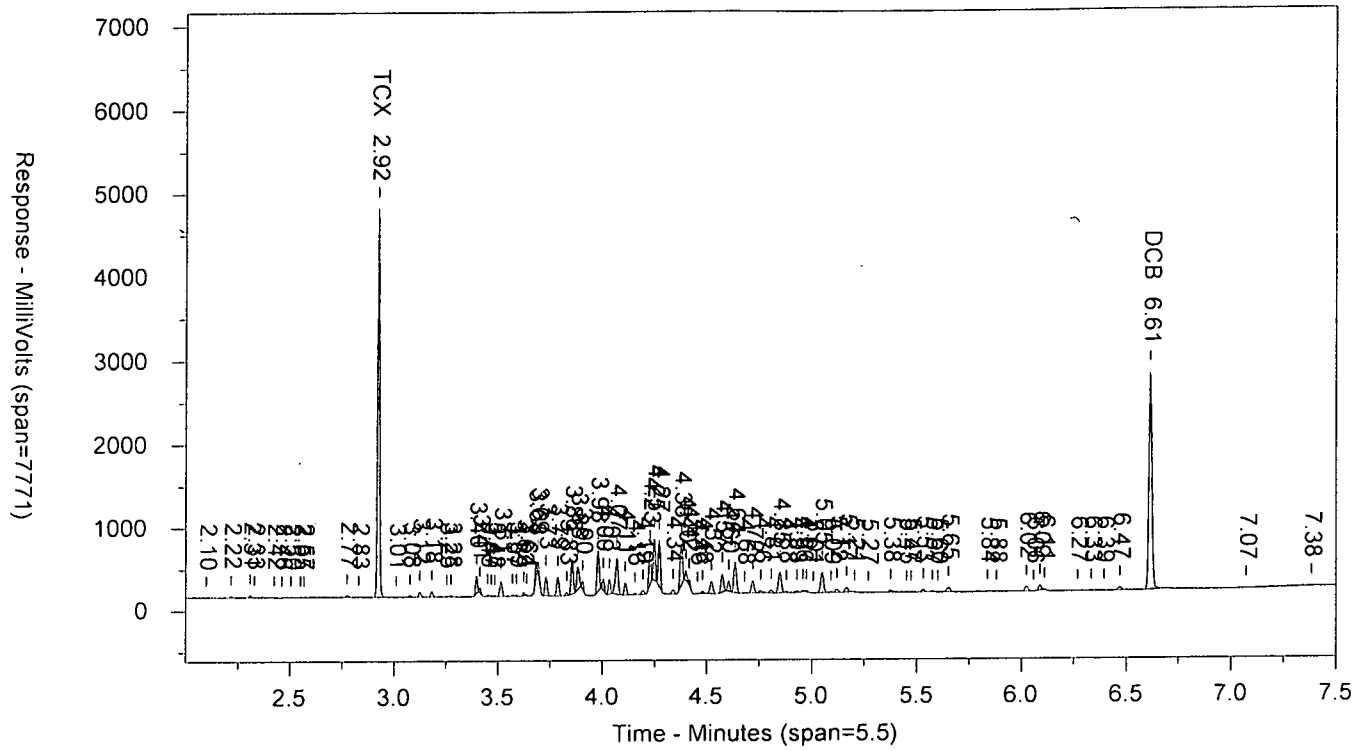
Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4670822	41.102	TCX	2.615	28874900	41.768	TCX
6.614	2599218	37.77	DCB	6.11	18498500	37.971	DCB

Files:
Area File: 20pcbs17137001.030.RAW
Area File: 20pcbs17137001B.030.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 10:12:41 PM
File Reported On: 5/17/2017 at 10:12:49 PM

IC48X1724A AAIC48XAA CCAL 1713699999 10736 SW-846 8082

\\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137001.030.RAW



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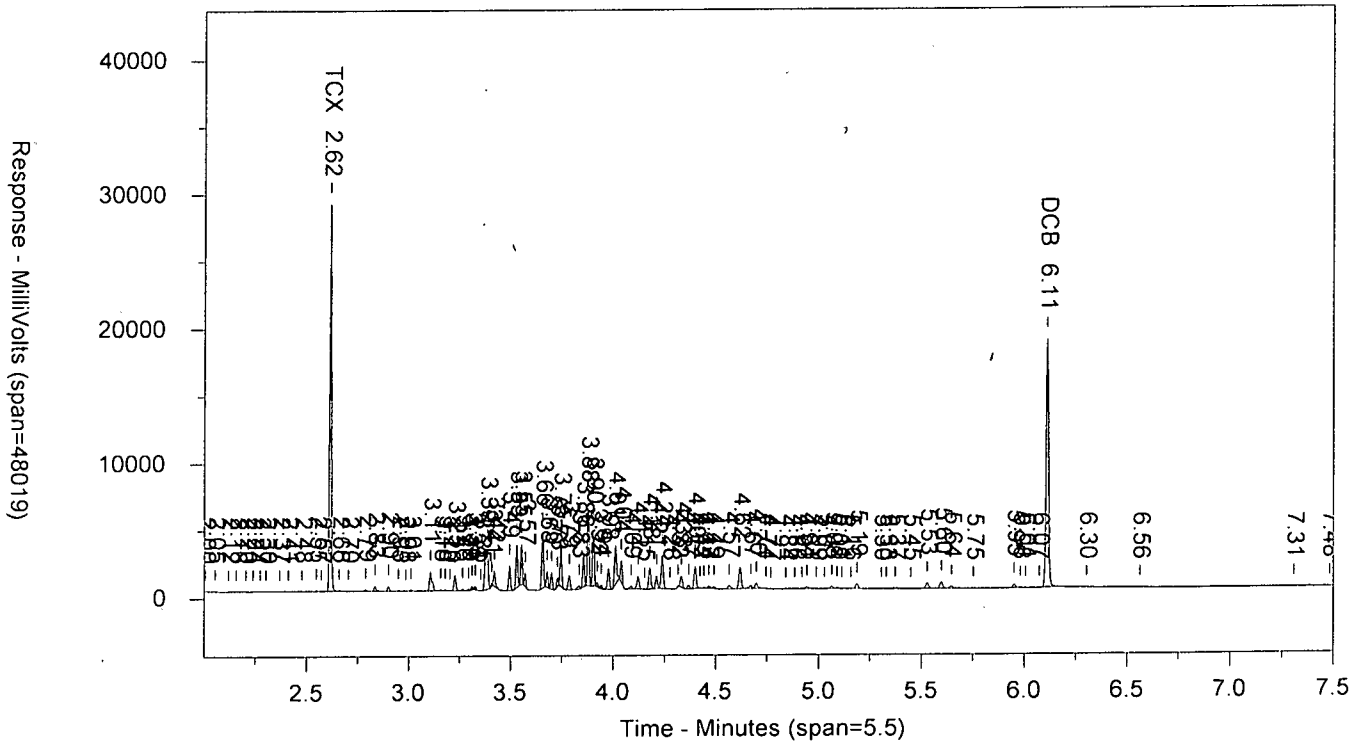

LANCASTER LABORATORIES

Sample Number: IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:15:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137001.031.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		7098	11418
2.218		8330	6783
2.31		10224	6594
2.329		2529	1336
2.425		1874	1819
2.552		1290	2535
2.657		801	1560
2.774		32482	27245
2.828		2117	2013
2.924	TCX	2285469	1522363
3.076		4536	3831
3.124		31705	20928
3.182		10671	9043
3.255		4669	2804
3.397		19519	12079
3.414		5211	2815
3.467		6128	5832
3.513		14972	10228
3.569		6843	4095
3.588		13617	8384
3.624		2525	1730
3.682		11020	5521
3.695		7876	6645
3.731		41933	30843
3.787		16816	13008
3.828		2267	1414
3.856		397300	303164
3.883		111826	103964
3.979		253718	194700
4.004		14800	8165
4.035		28621	20171
4.069		114458	109348
4.11		23403	18267
4.138		1540	874
4.156		4686	2935
4.19		21271	16421
4.229		662635	490059
4.249		293716	173837
4.273		188493	142462
4.34		195418	161882
4.381		1085644	1042662
4.417		356426	295424
4.457		14119	9166
4.479		65286	51512
4.522		371516	328526
4.574		686872	616932
4.605		166598	108521
4.636		1401741	1211992
4.681		61117	42861
4.694		28359	14830
4.719		189888	154803
4.757		421630	423877
4.808		88192	76149
4.85		928203	870896

RT A	Compound A	Height A	Area A
4.878		18534	10535
4.905		87752	71041
4.929		17785	10364
4.957		325786	236436
4.974		137233	85412
5.007		11609	8969
5.05		732295	694114
5.093		78148	61974
5.119		83419	116964
5.166		953095	838170
5.188		38055	17713
5.204		22557	14146
5.228		21360	15201
5.271		30711	26316
5.376		309249	398039
5.425		1917	938
5.451		36952	33706
5.491		33791	30323
5.531		19196	18876
5.575		165300	156092
5.602		23982	16128
5.632		129790	149768
5.84		110749	106559
5.871		17157	18024
6.024		30198	31528
6.089		35609	30360
6.11		7522	4900
6.269		6229	6068
6.397		834	521
6.469		18562	19361
6.614	DCB	1267488	1343171
6.94		576	2260
7.457		6028	145215
8.242		853	1220
8.42		942	3036
8.681		2990	3763

LANCASTER LABORATORIES

Sample Number: IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:15:30 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137001B.031.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.007		8687	9036
2.054		19510	12684
2.155		9361	29380
2.243		12982	32442
2.357		3837	4261
2.41		4162	2688
2.453		3253	2312
2.477		4619	24567
2.547		99741	80967
2.615	TCX	14261130	8161377
2.739		2450	2057
2.787		21734	16483
2.833		191372	125073
2.899		63458	53314
2.949		35258	20419
2.987		2292	1234
3.01		9680	7250
3.106		136035	138977
3.179		47678	30550
3.203		5520	2509
3.228		99929	63710
3.265		109399	66001
3.292		60423	32249
3.311		20360	9371
3.326		60875	33582
3.376		160765	165859
3.406		49347	22834
3.42		180359	132153
3.494		147119	92815
3.528		3005385	1813061
3.552		997978	581766
3.57		95239	40828
3.587		20108	9915
3.656		1914618	1193657
3.678		155239	79024
3.7		228388	151491
3.729		194174	96598
3.745		685766	394409
3.785		201440	149396
3.825		156773	146060
3.855		651648	378225
3.878		7402528	4694650
3.902		748345	428751
3.922		689461	377506
3.941		1162877	698746
3.976		6307564	4241659
4.008		2426383	1501906
4.025		1434197	766275
4.086		478622	371864
4.121		2336316	1774735
4.178		5129437	3746212
4.211		1416893	996456
4.239		8742960	6470207
4.276		631778	611346

RT B	Compound B	Height B	Area B
4.33		4212095	3475363
4.367		634281	469649
4.399		5835235	4141655
4.423		862417	548107
4.466		3505994	2547704
4.491		162865	97558
4.566		3121899	2985743
4.618		4136349	3269422
4.658		964427	846487
4.697		6392117	6072525
4.744		461596	295749
4.768		201952	141782
4.827		73735	82163
4.884		315209	280581
4.918		300816	208347
4.942		1867441	1465418
4.992		244800	207236
5.028		198831	161819
5.061		160295	137710
5.09		909573	668435
5.112		639746	559645
5.153		15617	8687
5.186		195803	173116
5.248		3196	2559
5.301		3297	1753
5.327		31690	25901
5.37		756608	777371
5.528		206510	180862
5.573		24533	17154
5.596		233024	188332
5.645		101099	89389
5.751		39872	33475
5.95		125828	102865
6.11	DCB	8886612	8047574
6.235		3305	4459
6.282		3239	2928
6.562		6463	6145
7.545		2430	2987
7.687		1496	8713
7.812		1769	3873
7.859		2414	4305
8.215		17156	32850

IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082

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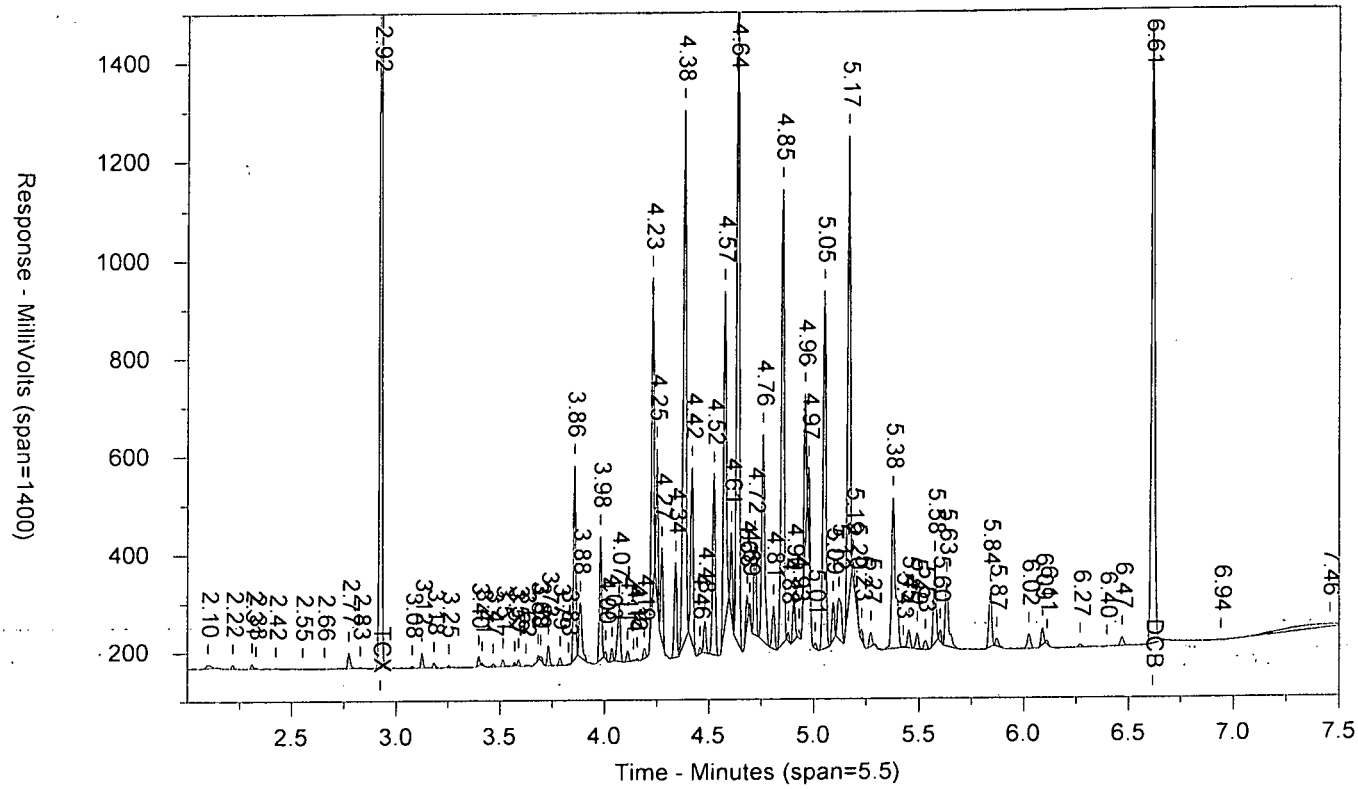

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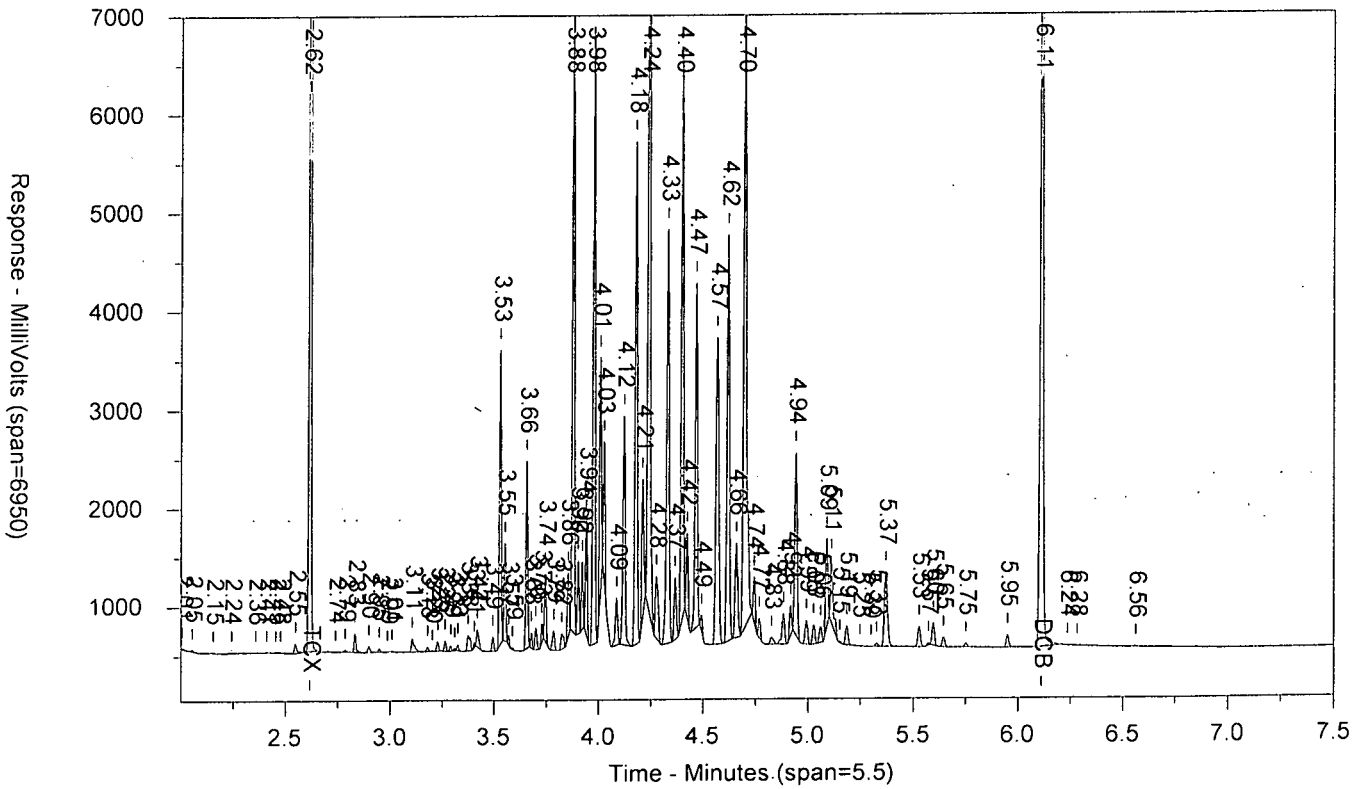

LANCASTER LABORATORIES

Sample Number: IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082
Injected On: 5/17/2017 10:15:30 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2285469	20.111	TCX	2.615	14261130	20.629	TCX
6.614	1267488	18.418	DCB	6.11	8886612	18.241	DCB

Files:
Area File: 20pcbs17137001.031.RAW
Area File: 20pcbs17137001B.031.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/17/2017 10:24:13 PM
File Reported On: 5/17/2017 at 10:24:19 PM

IC54X1724A AAIC54XAA CCAL 1713699999 10736 SW-846 8082

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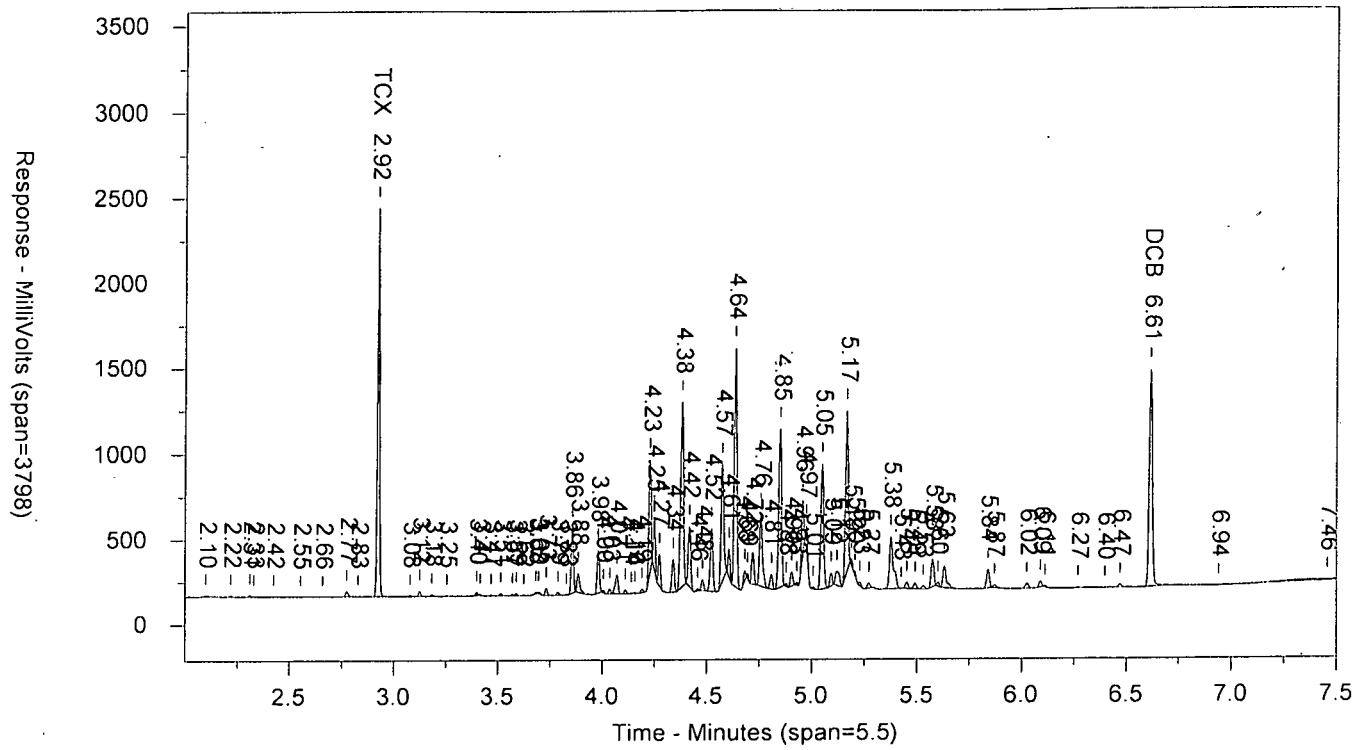

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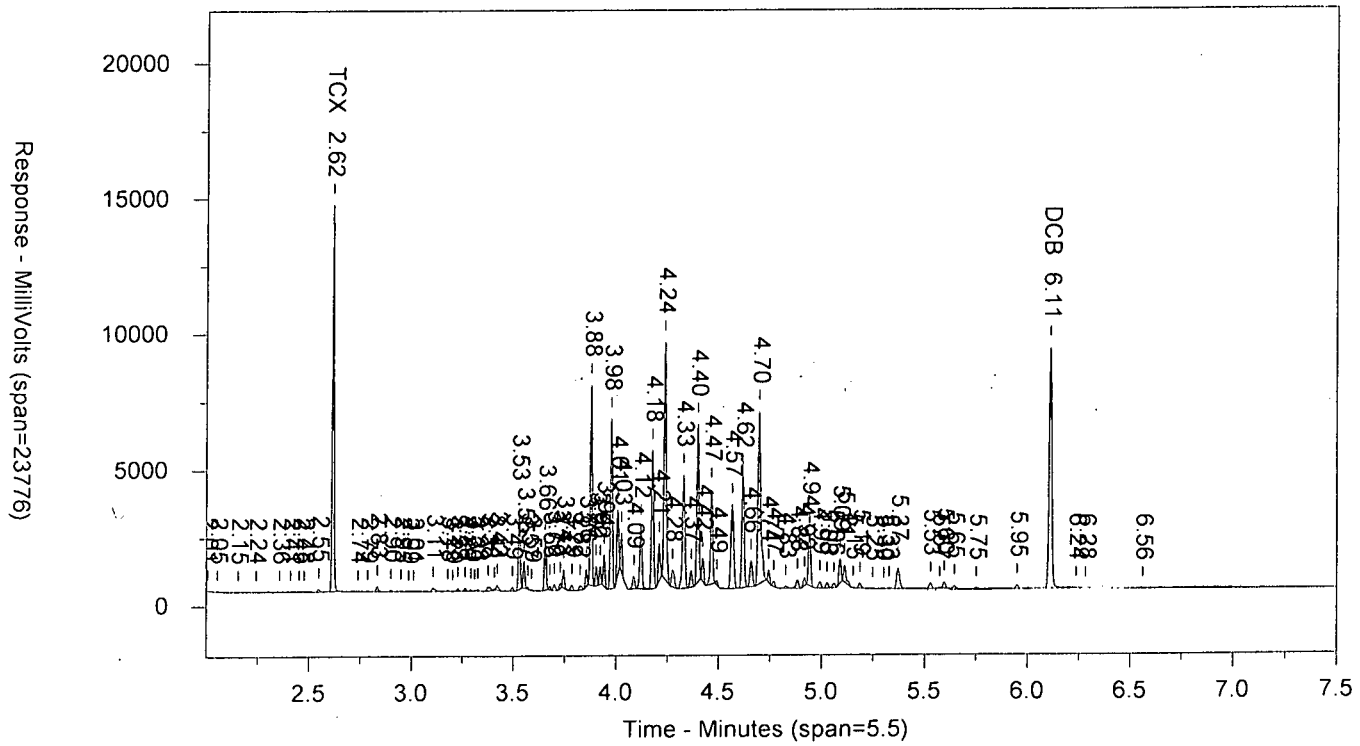

LANCASTER LABORATORIES

Sample Number: AR1631724A FSAR163FS CCAL 1714599999 10736 SW-846 8082
Injected On: 5/26/2017 4:31:05 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.011.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		11691	23578
2.217		17668	12869
2.31		14711	8930
2.328		5217	2871
2.378		3079	3187
2.423		4357	3889
2.502		1423	1583
2.567		5788	7176
2.659		952	614
2.774		10646	8351
2.828		5387	5498
2.924	TCX	4968005	3313077
3.013		859	484
3.076		72670	59832
3.133		102452	109556
3.182		432563	310974
3.254		9565	5201
3.274		58142	37947
3.312		1459	872
3.36		539	357
3.396		423386	258142
3.412		191624	103440
3.449		52008	29740
3.465		13611	5591
3.482		41100	24140
3.512		479017	360616
3.546		1396	730
3.567		14122	8024
3.586		14174	8123
3.622		101385	58424
3.636		48058	24168
3.681		222796	124433
3.692		472160	242306
3.728		552605	411226
3.787		442786	349644
3.827		35738	25506
3.854		328105	237134
3.882		225299	192494
3.904		80641	40851
3.978		368026	261183
4.003		121223	80297
4.033		137748	100504
4.07		355146	371697
4.108		118514	95476
4.154		15955	11850
4.193		21647	18034
4.227		398137	290680
4.248		95499	55460
4.271		106372	76470
4.338		61864	53152
4.381		409897	377604
4.415		10844	6825
4.478		4234	3557
4.52		41981	43262

RT A	Compound A	Height A	Area A
4.573		42007	28123
4.588		80392	54459
4.634		254123	233932
4.679		368221	410844
4.717		86686	61706
4.756		841799	786642
4.801		5136	5546
4.847		137775	153095
4.877		10636	6993
4.904		149363	138330
4.956		1006198	1249257
5.006		177924	160778
5.049		485645	510241
5.091		8146	4631
5.128		94964	121765
5.164		1132598	1069228
5.187		33476	15779
5.226		556843	491317
5.27		333513	330438
5.373		24018	41211
5.392		527384	484696
5.45		305807	288104
5.489		163944	140586
5.53		45004	44101
5.575		221382	216152
5.631		1448629	1545335
5.717		1961	2185
5.837		815200	847100
5.879		43233	66978
5.89		71507	55711
6.022		50954	50161
6.086		44275	34928
6.109		130126	111952
6.266		323192	336023
6.312		22713	23364
6.392		1327	1438
6.466		104546	107429
6.515		814	248
6.539		652	567
6.612	DCB	2646561	2787097
7.065		2671	5495
7.527		752	3177
7.753		617	1579
8.683		4120	6312

LANCASTER LABORATORIES

Sample Number: AR1631724A FSAR163FS CCAL 1714599999 10736 SW-846 8082
Injected On: 5/26/2017 4:31:05 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.011.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		8048	4142
2.052		42253	31105
2.119		2790	4147
2.155		12167	12406
2.239		23095	33820
2.298		24378	16038
2.364		6667	9333
2.392		2612	1067
2.41		6676	6349
2.452		4247	3160
2.475		7396	11069
2.544		30632	15142
2.57		7476	5988
2.591		3569	1350
2.614	TCX	30912160	17544960
2.658		193494	133051
2.703		6965	7529
2.784		443925	289823
2.832		268518	126402
2.845		408624	202578
2.898		2439028	1480394
2.948		76810	43788
3.008		320912	201361
3.104		3098381	2932490
3.155		331312	199732
3.176		179997	100289
3.202		283101	154041
3.226		3025050	2003425
3.262		112256	65250
3.29		103522	48105
3.308		808278	415225
3.323		553858	270079
3.35		5101	2520
3.374		1903796	835124
3.383		3910447	1576464
3.404		129904	48304
3.417		2752724	1815942
3.491		3553383	2198957
3.526		2361886	1455730
3.549		2594168	1414415
3.567		868434	429594
3.652		2999554	1932897
3.675		941315	515212
3.696		1020003	616873
3.725		655722	339636
3.742		2547362	1472976
3.783		881134	638591
3.83		134764	111180
3.852		666564	402202
3.875		3447113	2175707
3.899		713895	425118
3.919		114536	55298
3.937		354517	219704
3.973		2783044	1862546

RT B	Compound B	Height B	Area B
4.007		130584	79983
4.022		221846	142847
4.071		9505	6529
4.083		15691	8298
4.118		226086	220030
4.175		755967	550707
4.217		542038	332796
4.235		758498	364886
4.249		1844883	991761
4.275		1074533	1096654
4.327		5832536	4456617
4.374		89499	76854
4.396		628719	424700
4.421		1350476	960104
4.463		6897800	5338750
4.515		5197	6237
4.566		5598269	5325762
4.62		708144	603174
4.658		1534370	1343027
4.694		7296002	5983926
4.726		3237846	2254115
4.765		2354324	1840169
4.827		11690	16671
4.864		691464	500990
4.881		74840	36266
4.916		4205072	3330125
4.94		577035	381135
4.989		2246902	2003094
5.025		1136067	912041
5.056		880517	719506
5.087		367710	228936
5.11		9469316	7843663
5.152		213975	158785
5.183		491456	413404
5.302		105431	67758
5.325		1902428	1594871
5.37		6480564	7010497
5.526		356891	313489
5.57		162337	117082
5.594		341935	265903
5.643		1141224	995138
5.75		2262569	1972495
5.781		126537	97421
5.814		7081	14054
5.9		3923	2789
5.949		766293	684527
6.069		3406	2468
6.107	DCB	19068060	16889380
6.212		6846	4098
6.283		9682	13323
6.483		2715	5816
6.557		13898	13612
6.929		3709	16311
6.951		4181	8010
7.126		2859	5545
7.305		3805	6679
7.471		4537	11639
7.628		2381	7246
7.761		907	4831
7.839		2927	4742
8.214		21575	39265
8.682		6043	10272

AR1631724A FSAR163FS CCAL 1714599999 10736 SW-846 8082

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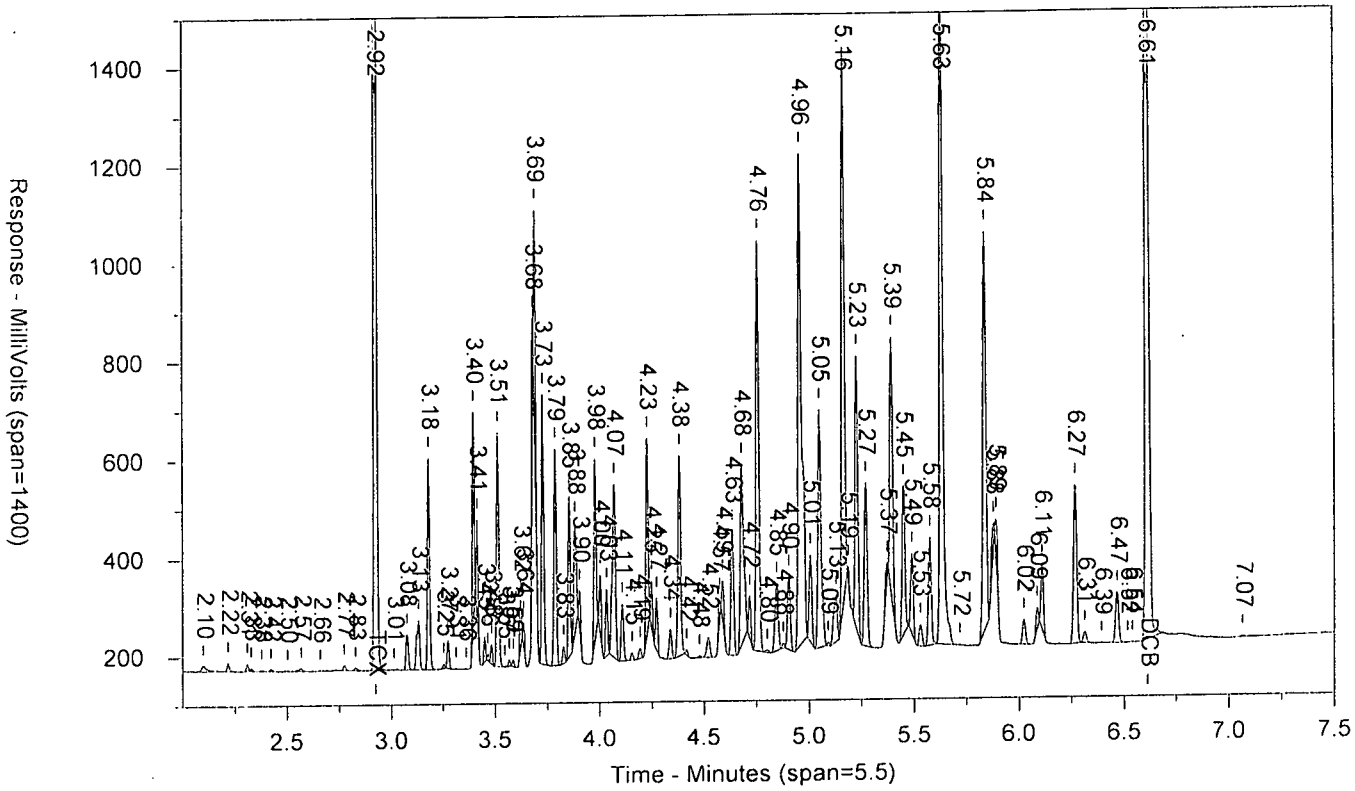

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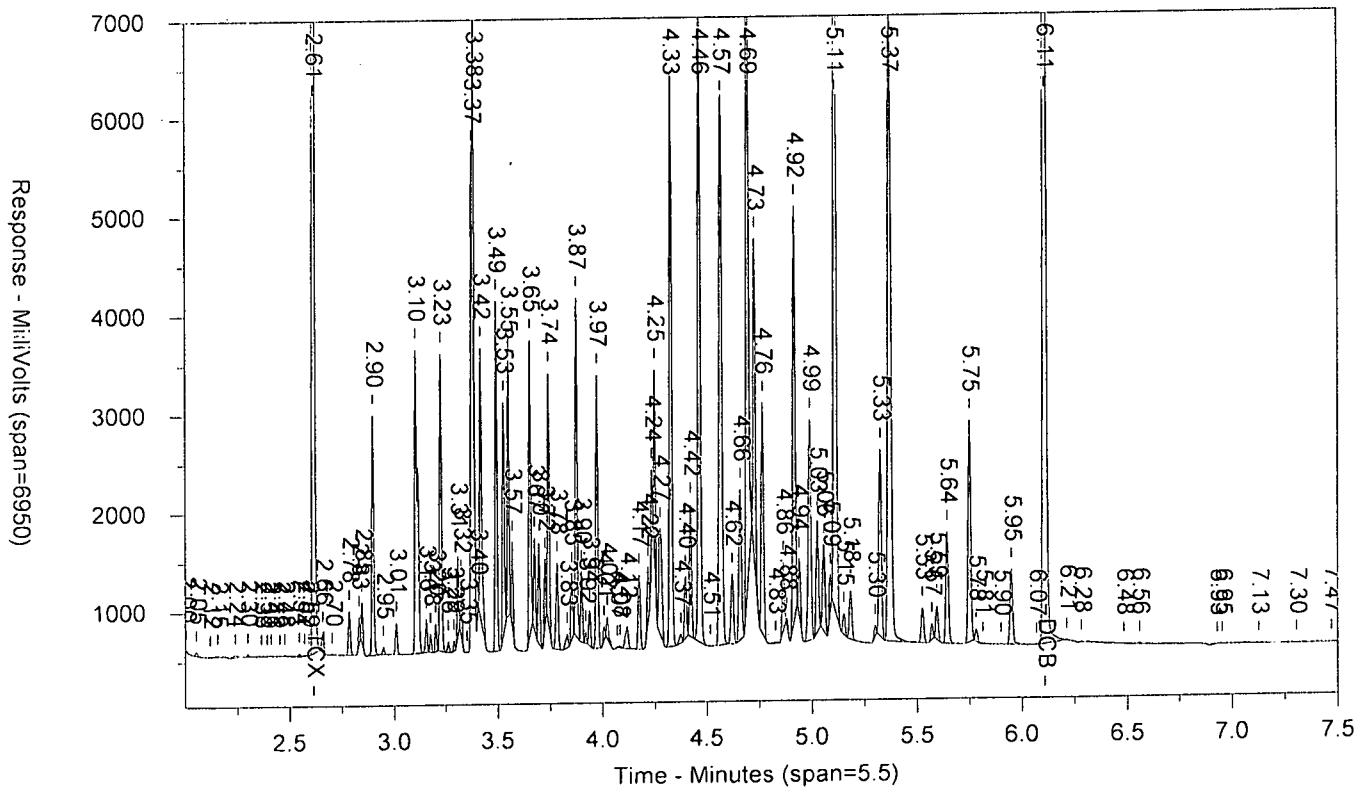

LANCASTER LABORATORIES

Sample Number: AR1631724A FSAR163FS CCAL 1714599999 10736 SW-846 8082
Injected On: 5/26/2017 4:31:05 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4968005	43.717	TCX	2.614	30912160	44.715	TCX
6.612	2646561	38.458	DCB	6.107	19068060	39.14	DCB

Files:
Area File: 20pcbs17137009.011.RAW
Area File: 20pcbs17137009B.011.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 4:39:49 PM
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AR1631724A FSAR163FS CCAL 1714599999 10736 SW-846 8082

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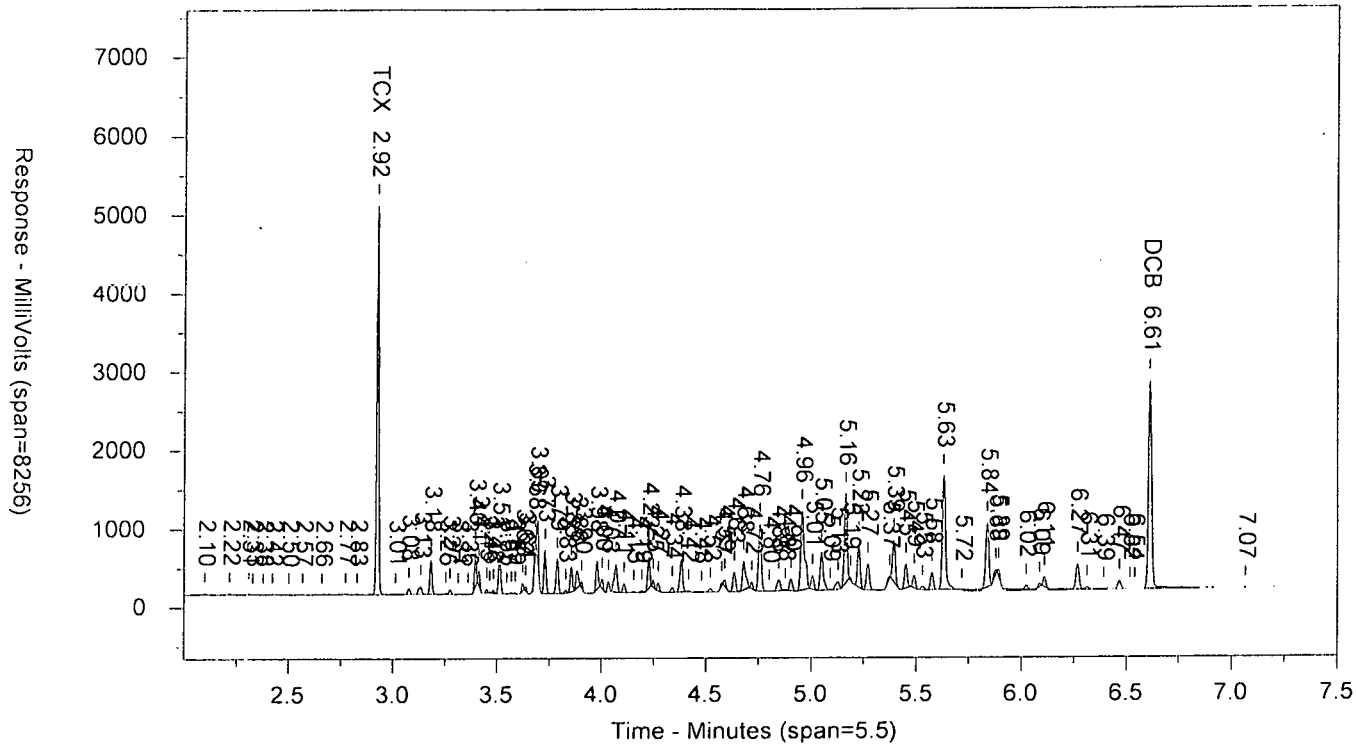

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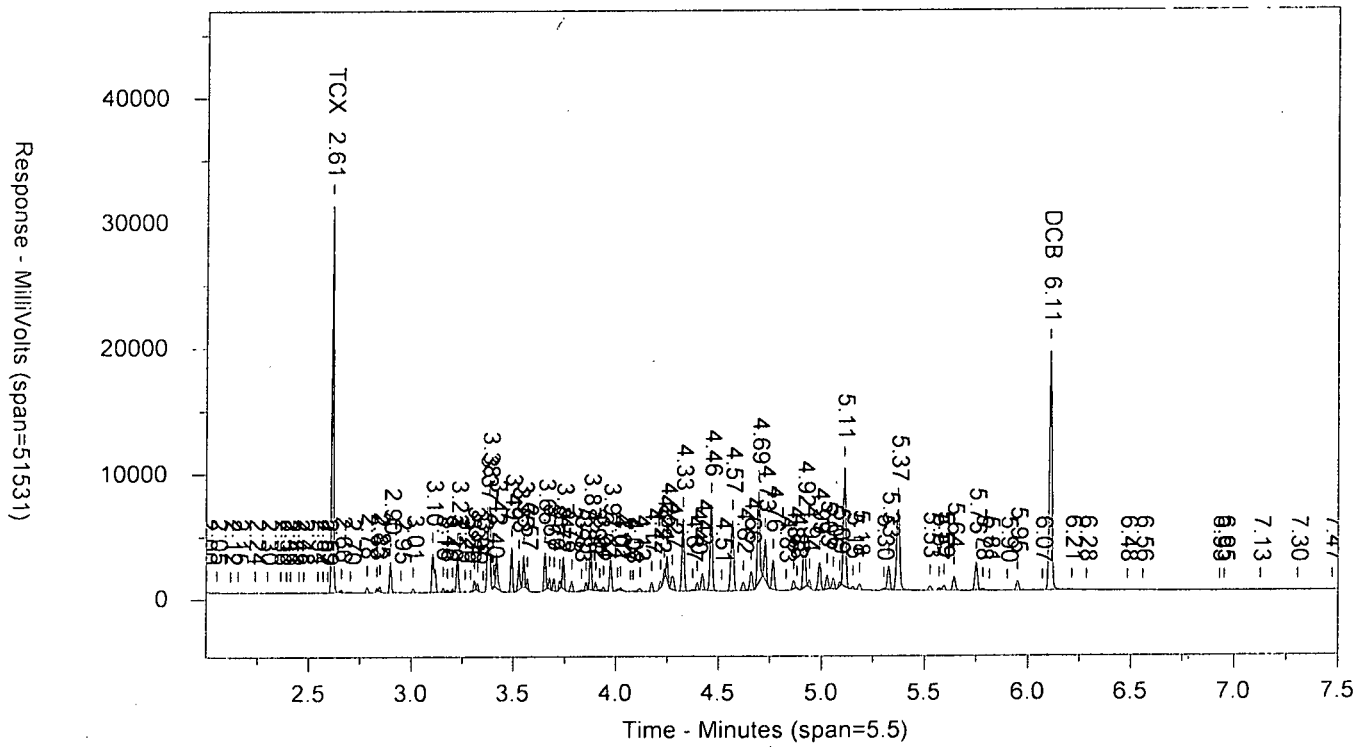

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AHPIBLKAH PIBLK1714599999 10736 SW-846 8082
Injected On: 5/26/2017 4:42:35 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.012.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.098		14865	20567
2.14		1297	2459
2.217		8732	6892
2.309		13469	8124
2.328		2354	1181
2.377		2511	2766
2.423		2913	3093
2.549		3043	4390
2.656		1095	929
2.689		655	583
2.72		1925	1824
2.774		18198	14879
2.827		3278	3107
2.924	TCX	2506077	1660346
3.073		969	585
3.123		34611	21853
3.191		3194	2802
3.254		5707	3650
3.46		575	680
3.493		1073	685
3.532		1573	1492
3.568		7601	4979
3.667		4645	4346
3.732		854	617
3.851		1865	3127
3.931		546	723
4.169		1145	804
4.192		2554	2536
4.297		4555	6298
4.39		1151	2156
4.51		1786	2365
4.879		3952	4859
4.928		761	827
5.12		7367	7821
5.432		4078	4584
5.531		7605	8063
5.652		14696	14292
5.84		1370	1947
6.024		20198	20134
6.089		21751	18862
6.215		994	3373
6.467		15223	13971
6.612	DCB	1391818	1477224
7.003		755	422
7.067		1394	1998
7.293		618	1425
7.795		929	4286
8.428		34547	291065
8.564		14630	51624

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AHPIBLKAH PIBLK1714599999 10736 SW-846 8082
Injected On: 5/26/2017 4:42:35 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.012.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		6261	4175
2.053		21061	14219
2.099		2677	3399
2.154		11623	39507
2.236		26828	51759
2.361		5453	9179
2.392		2892	1346
2.41		9659	9834
2.476		5629	3511
2.526		8776	6807
2.546		53583	31691
2.591		9385	4819
2.614	TCX	15228740	8879099
2.777		8794	5913
2.8		5449	3475
2.832		203169	117187
2.89		5749	9731
2.948		41085	25300
3.093		1635	1499
3.181		15393	27884
3.226		3176	2730
3.267		4524	2361
3.29		62433	34316
3.324		36438	23194
3.377		5130	6360
3.408		10959	8681
3.449		8572	13240
3.475		4341	5786
3.545		3025	1341
3.558		5527	3177
3.599		5791	5503
3.711		6642	8438
3.771		4481	3792
3.811		3877	5446
3.859		3420	1817
3.935		18212	11484
3.982		3500	6399
4.019		4121	6318
4.072		28051	22771
4.11		3494	2728
4.15		4694	6397
4.194		7000	9167
4.232		4672	3659
4.328		3029	2852
4.372		2798	3472
4.439		24576	19303
4.527		3645	5747
4.565		3139	4936
4.621		2988	2005
4.642		3817	2255
4.667		48506	39444
4.842		27695	35651
4.919		2764	2757
4.981		6273	7036

RT B	Compound B	Height B	Area B
5.062		43085	51848
5.184		96068	82549
5.342		5415	9206
5.411		5832	19024
5.526		148459	125281
5.594		163233	143011
5.643		37240	35506
5.728		11044	43462
5.789		11065	9886
5.82		5543	7035
5.866		2165	1623
5.949		102142	85923
6.002		2737	2084
6.071		2403	2113
6.108	DCB	10028530	8821263
6.277		5478	4096
6.308		4076	4425
6.476		2275	3307
6.558		6640	5153
6.812		2449	3101
6.975		2744	31940
7.47		3374	7182
7.537		3386	5124
7.624		2163	6107
7.781		1578	1208
8.214		21172	43723
8.68		4132	7151

IBLKX1724A AHPIBLKAH PIBLK1714599999 10736 SW-846 8082

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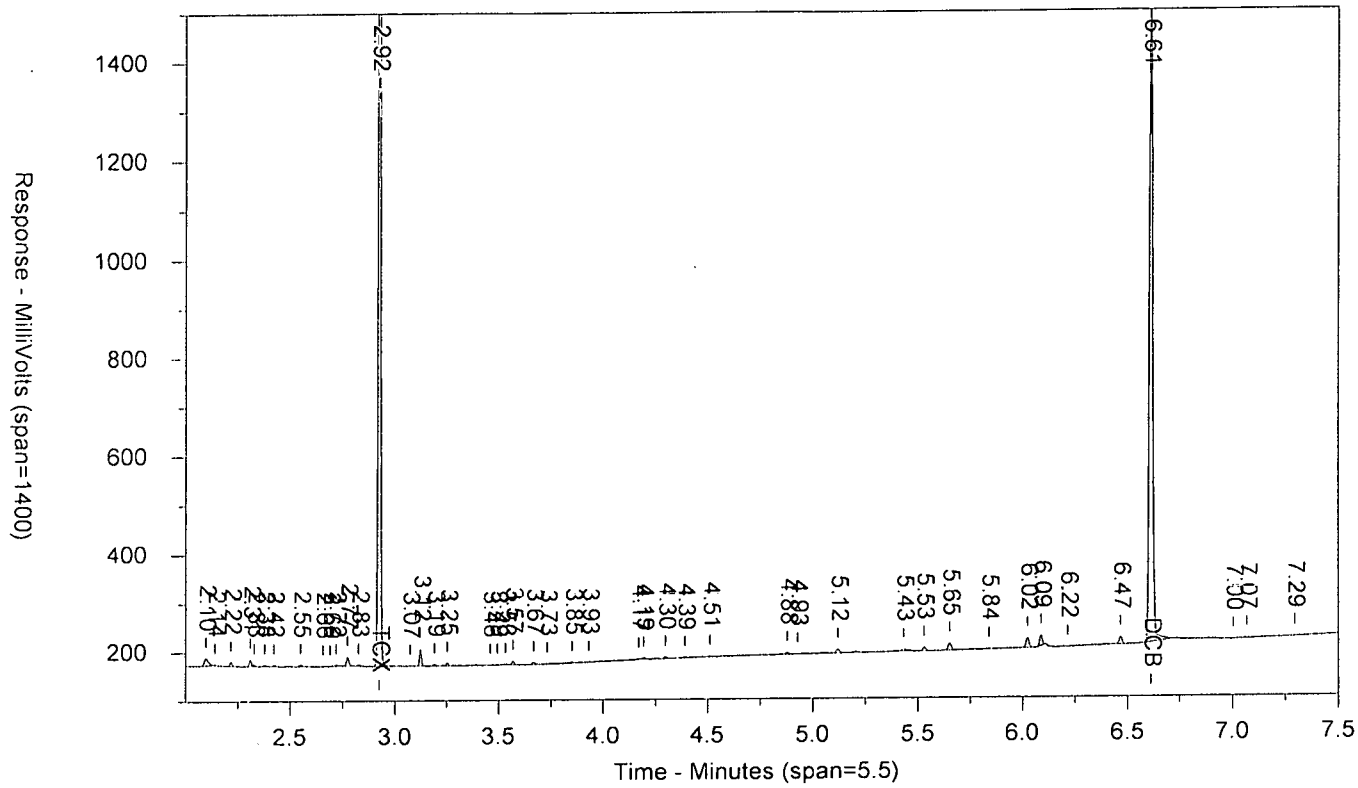

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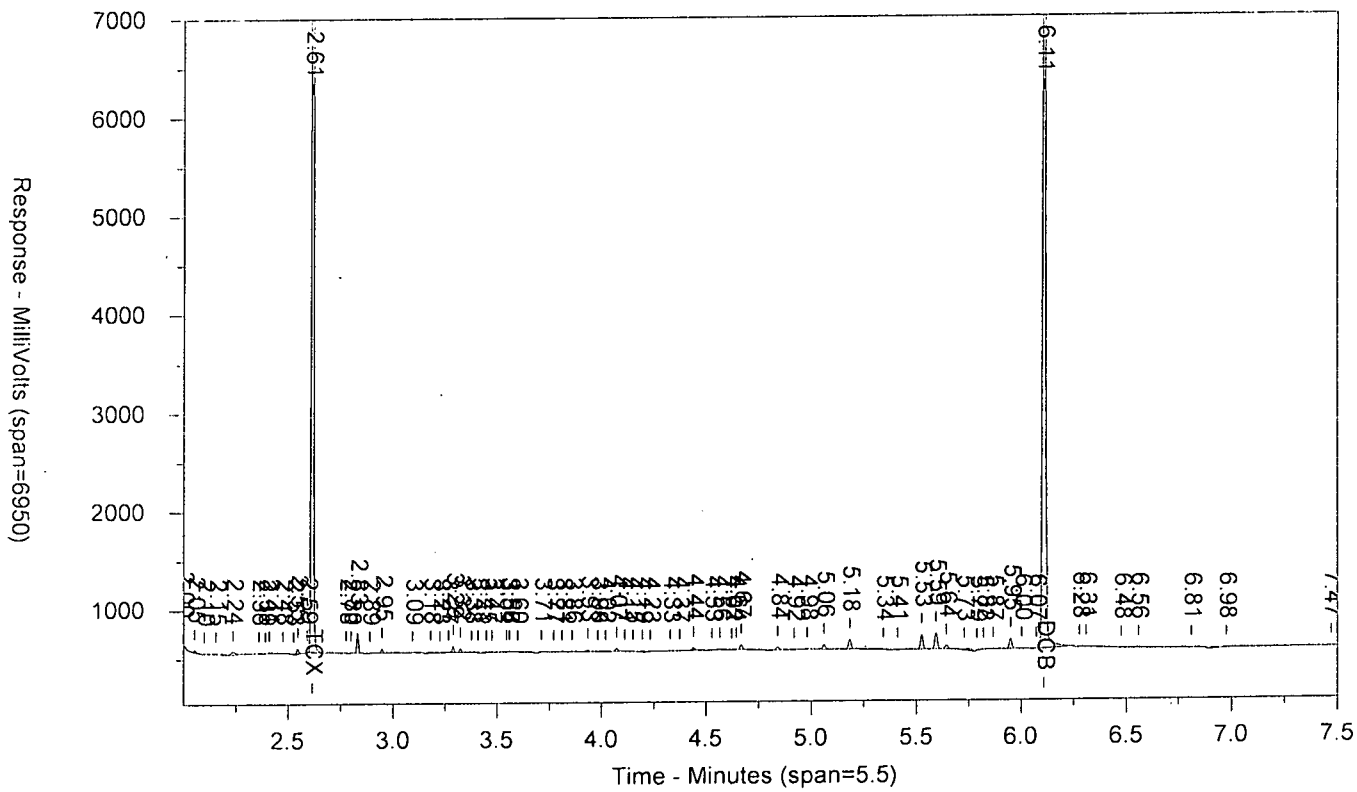

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AHPIBLKAH PIBLK1714599999 10736 SW-846 8082
Injected On: 5/26/2017 4:42:35 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2506077	.221	TCX	2.614	15228740	.22	TCX
6.612	1391818	.202	DCB	6.108	10028530	.206	DCB

Files:
Area File: 20pcbs17137009.012.RAW
Area File: 20pcbs17137009B.012.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 4:51:19 PM
File Reported On: 5/26/2017 at 4:51:31 PM

IBLKX1724A AHPIBLKAH PIBLK1714599999 10736 SW-846 8082

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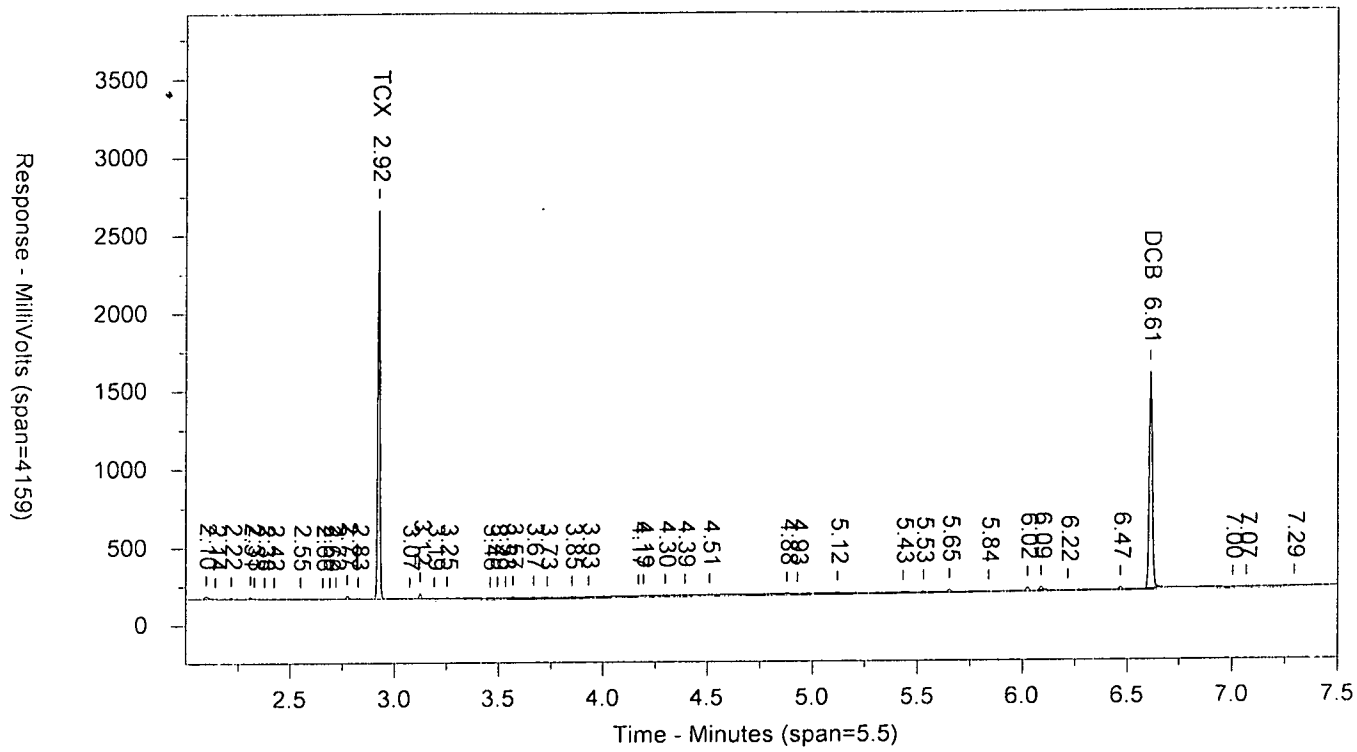

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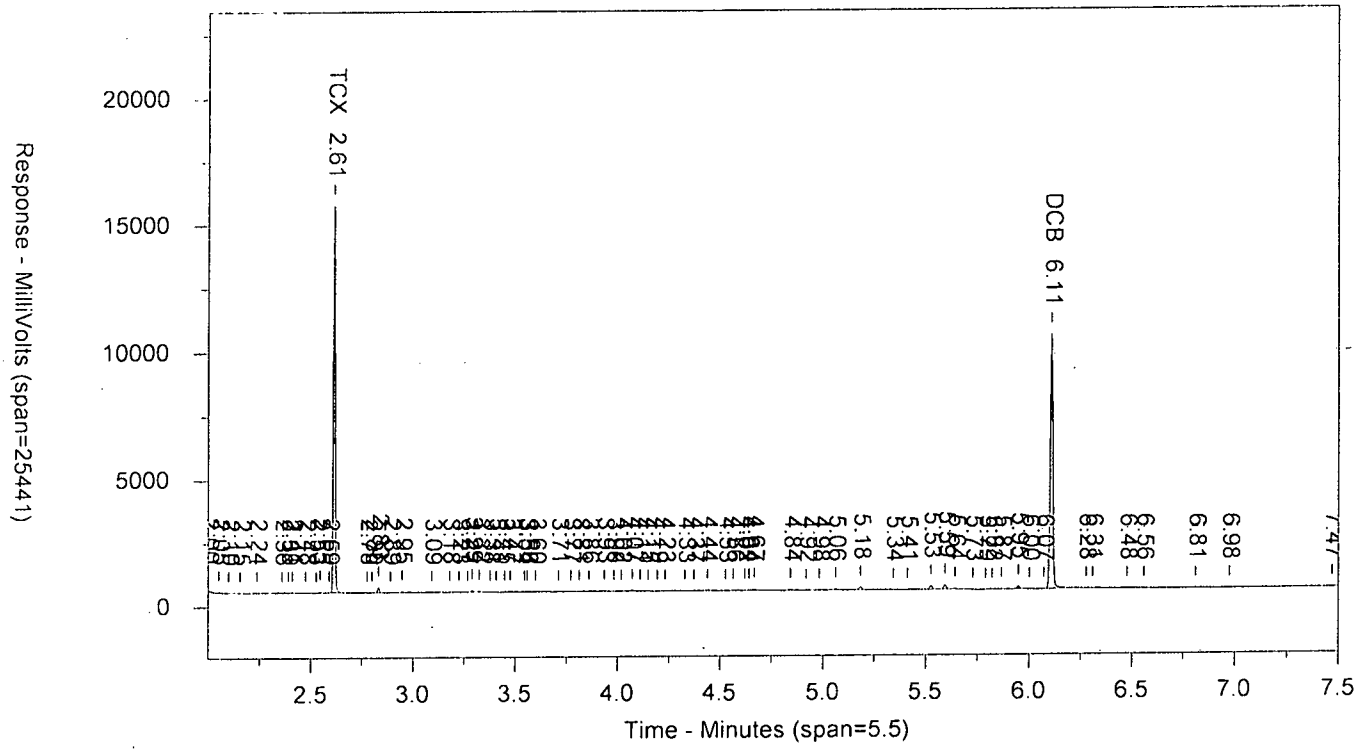

LANCASTER LABORATORIES

Sample Number: AR1631724A FTAR163FT CCAL 1714599999 10736 SW-846 8082
Injected On: 5/26/2017 8:43:34 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.033.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		17812	35659
2.217		18855	13504
2.309		16269	9859
2.328		5223	2951
2.378		2664	2913
2.425		7585	6917
2.503		1822	2395
2.566		6322	7891
2.66		1291	1370
2.736		618	910
2.774		23402	19243
2.828		8914	8925
2.924	TCX	5141820	3417846
3.012		1385	833
3.076		76603	64251
3.134		105400	112529
3.182		443050	319664
3.254		10362	5645
3.275		59864	39859
3.313		1481	946
3.397		436136	269258
3.413		205407	109380
3.45		55019	30895
3.466		13900	5906
3.483		43509	24180
3.512		497602	373361
3.568		16817	9752
3.586		14930	8955
3.623		102324	59695
3.637		52020	25595
3.683		184060	106313
3.693		484853	246911
3.729		556946	420168
3.788		452358	355304
3.828		35860	25169
3.856		317591	239643
3.883		244712	200231
3.904		70122	37868
3.979		355567	259815
4.003		123272	79623
4.034		139055	100962
4.07		357810	374540
4.109		116661	96236
4.155		15299	11129
4.194		21004	17129
4.228		388918	291278
4.249		94098	54011
4.272		108242	77022
4.339		62178	53370
4.382		401048	382396
4.417		11796	7641
4.479		4931	4117
4.52		54519	57871
4.575		35083	24931

RT A	Compound A	Height A	Area A
4.589		82044	54976
4.635		263571	235655
4.681		375108	411095
4.718		83848	62011
4.757		847022	791654
4.799		7216	7724
4.848		130534	154532
4.879		17279	11039
4.905		152571	136035
4.957		1002395	1256612
5.007		180186	162229
5.05		479863	514704
5.093		8942	5157
5.129		102225	127830
5.165		1148339	1085528
5.188		33930	15688
5.228		527227	485772
5.272		340897	332028
5.392		640993	891717
5.451		303590	286479
5.492		161342	140900
5.532		53665	52283
5.576		212339	210425
5.632		1497233	1563698
5.839		801716	841995
5.881		41827	73516
5.892		79144	53205
6.025		58108	60080
6.088		51629	41181
6.11		128321	111405
6.268		337419	336043
6.314		23415	23210
6.394		1931	2077
6.468		112994	113512
6.536		857	841
6.614	DCB	2579974	2790270
6.771		1114	1036
7.069		2228	2569
7.152		850	952
7.695		774	605

LANCASTER LABORATORIES

Sample Number: AR1631724A FTAR163FT CCAL 1714599999 10736 SW-846 8082
Injected On: 5/26/2017 8:43:34 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.033.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		12702	8472
2.053		44543	30391
2.115		2240	1944
2.155		14408	12036
2.239		22544	35167
2.299		25942	17269
2.363		6042	8361
2.395		2875	1922
2.411		7392	6544
2.451		2907	1897
2.476		10137	33489
2.545		55573	31092
2.57		9087	7078
2.592		3051	1523
2.614	TCX	30785720	18083810
2.658		211567	148539
2.703		11855	9330
2.785		469450	304718
2.813		2803	1002
2.832		298058	135217
2.846		443375	216163
2.898		2503783	1531139
2.948		80362	45343
3.008		334582	209166
3.104		3116234	2978116
3.156		314418	190024
3.177		186243	106052
3.202		281718	156692
3.226		3117589	2041136
3.263		127537	73637
3.29		117945	56963
3.309		840414	417461
3.324		587603	289834
3.351		6744	3448
3.374		1974231	874243
3.384		3791256	1510661
3.404		134791	52834
3.417		2480116	1681982
3.491		3550496	2219928
3.527		2376409	1466498
3.55		2625422	1442848
3.568		859891	429069
3.654		3032199	1955943
3.676		897125	478734
3.697		1039514	620395
3.726		713767	369872
3.743		2612088	1485199
3.784		889484	645906
3.831		151310	127976
3.853		653273	399233
3.876		3399885	2172935
3.9		704149	420609
3.92		120339	59047
3.939		329805	198213

RT B	Compound B	Height B	Area B
3.974		2760106	1859580
4.008		134888	83264
4.024		232959	147883
4.073		9504	7141
4.084		16048	8615
4.118		246643	284179
4.151		13722	7257
4.176		754600	542195
4.219		475766	293515
4.237		663097	338245
4.25		1739367	946003
4.276		1077652	1089261
4.328		5819035	4446226
4.375		93765	89349
4.397		626462	423811
4.422		1288756	938927
4.465		6908436	5240398
4.518		6884	8819
4.568		5389450	5325132
4.621		728015	615713
4.659		1524208	1363060
4.696		6997939	5850831
4.728		3208124	2227159
4.766		2300753	1833268
4.836		12848	23657
4.866		706905	502215
4.883		69734	37932
4.917		4251267	3336481
4.941		622924	400280
4.991		2176917	2013395
5.026		1133797	898180
5.056		860499	745026
5.089		296748	194228
5.111		9242133	7605729
5.153		203669	153744
5.185		597344	488911
5.303		110917	71061
5.328		1911356	1614838
5.371		6291283	6940272
5.527		420138	376829
5.572		154947	111711
5.595		419295	338292
5.644		1189212	1016660
5.751		2282102	1986708
5.782		135902	99737
5.902		3892	3701
5.95		738088	672595
6.067		3022	1867
6.109	DCB	19519060	17163140
6.284		9771	27518
6.56		15306	12894
6.733		2167	1725
7.599		2737	5104
7.661		2529	2342
7.843		2486	3593
7.976		1433	1187
8.216		22295	43570
8.456		1520	2263

AR1631724A FTAR163FT CCAL 1714599999 10736 SW-846 8082

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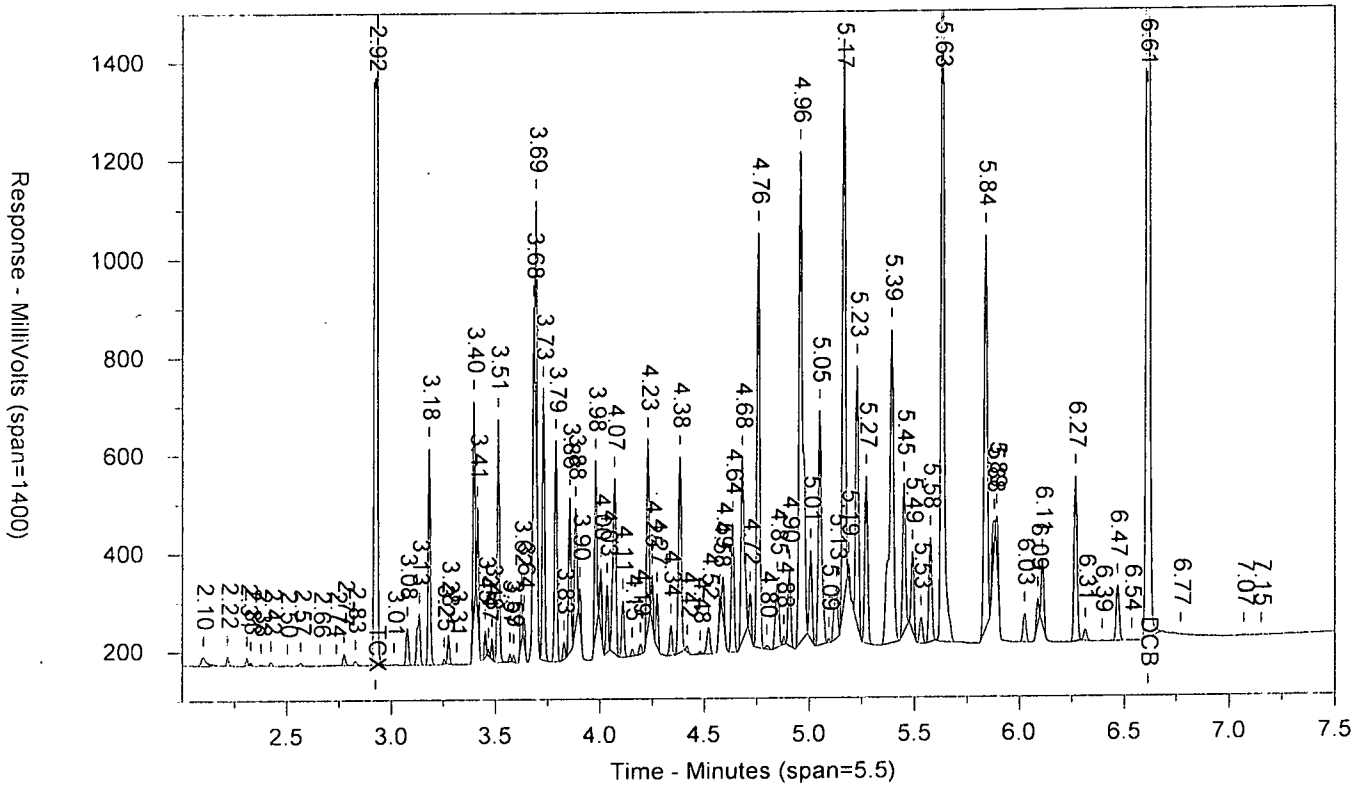

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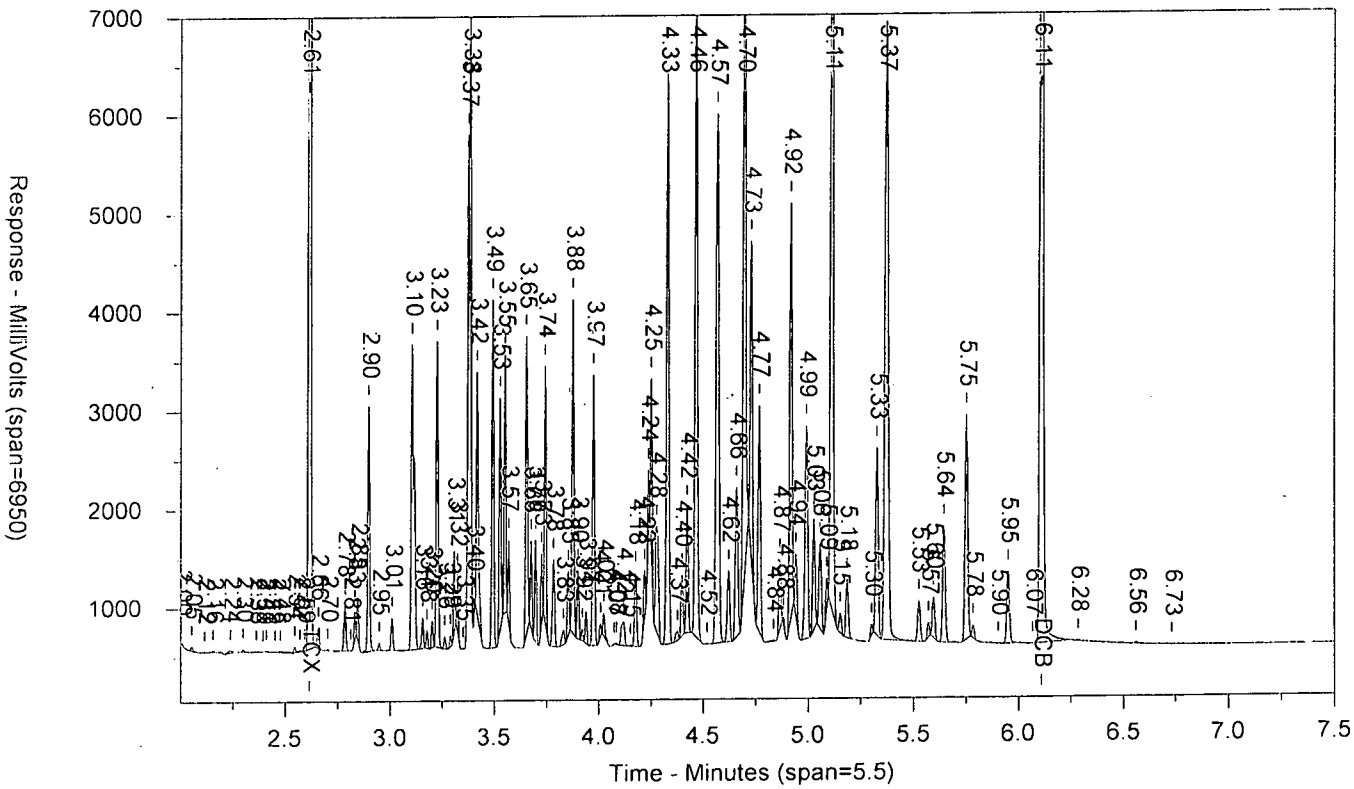

LANCASTER LABORATORIES

Sample Number: AR1631724A FTAR163FT CCAL 1714599999 10736 SW-846 8082
Injected On: 5/26/2017 8:43:34 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	5141820	45.246	TCX	2.614	30785720	44.533	TCX
6.614	2579974	37.491	DCB	6.109	19519060	40.066	DCB

Files:
Area File: 20pcbs17137009.033.RAW
Area File: 20pcbs17137009B.033.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 8:52:18 PM
File Reported On: 5/26/2017 at 8:52:26 PM

AR1631724A FTAR163FT CCAL 1714599999 10736 SW-846 8082

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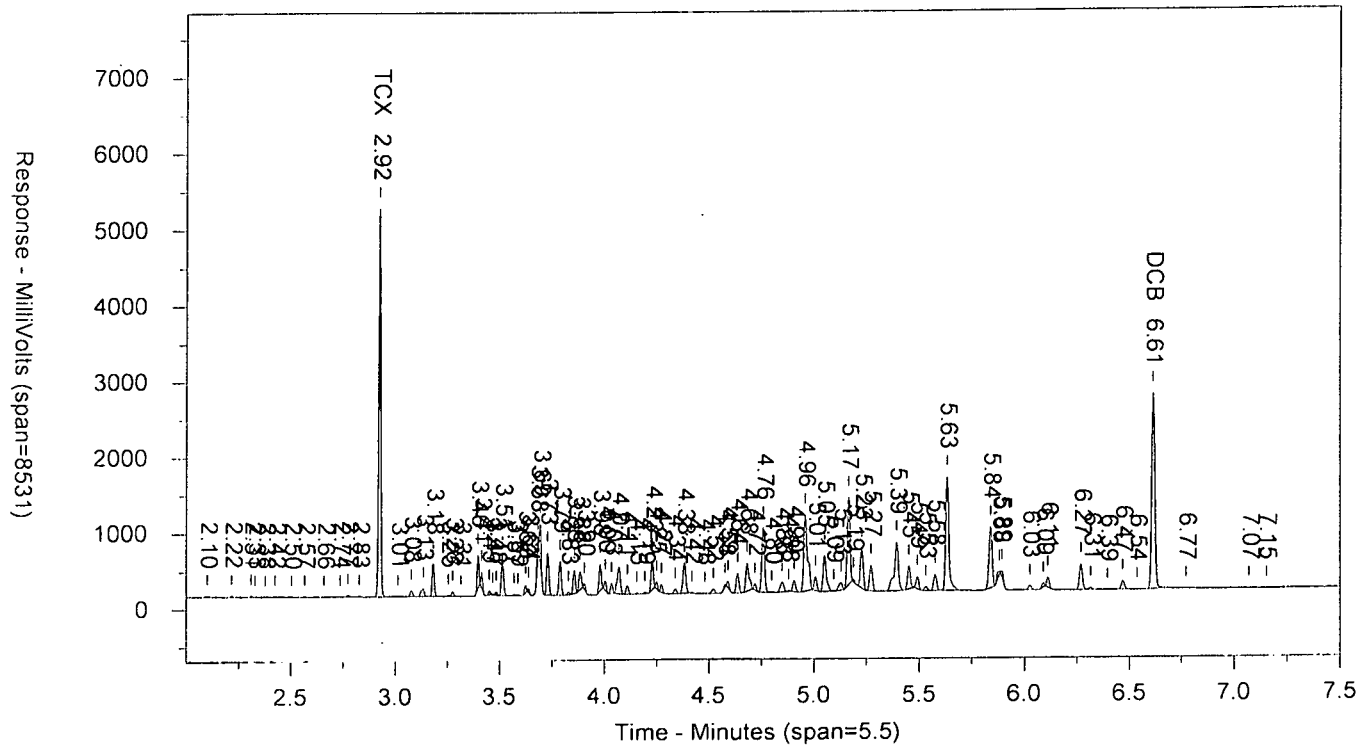

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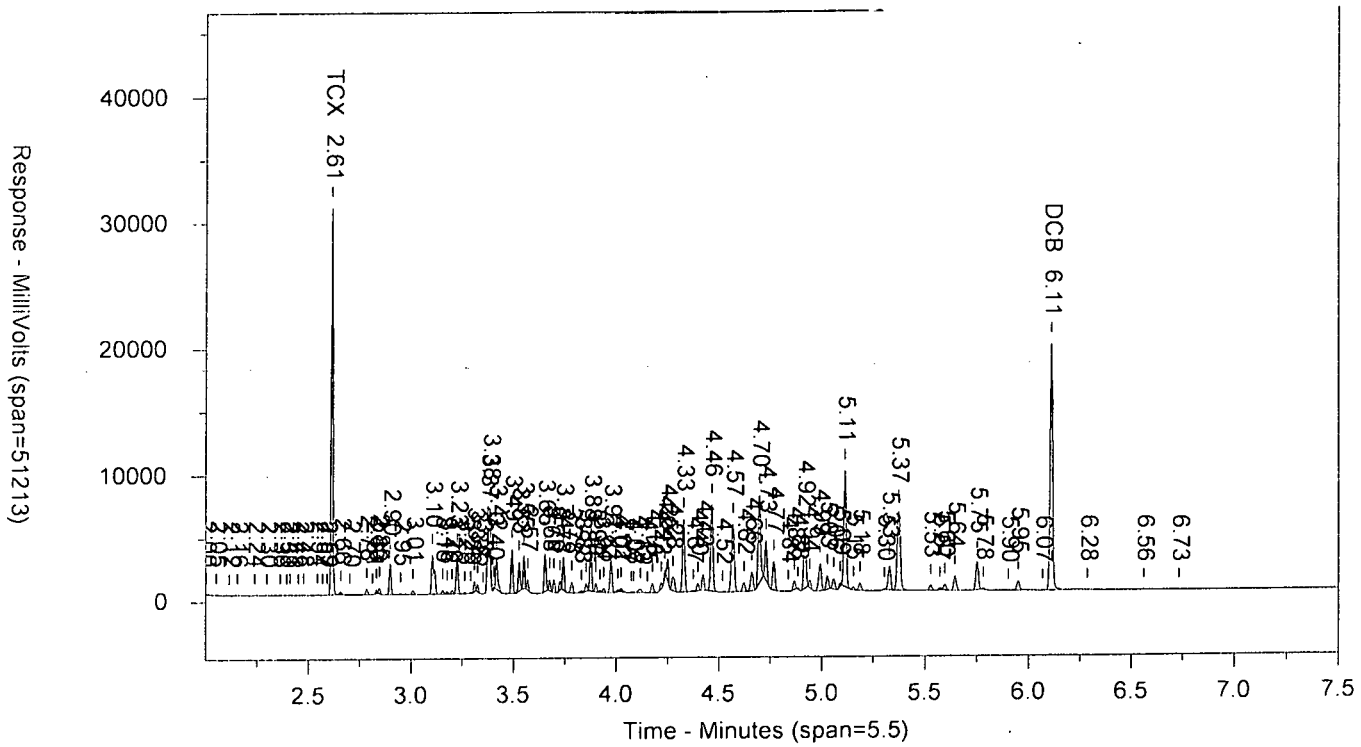

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AIPIBLKAI PIBLK1714599999 10736 SW-846 8082
Injected On: 5/26/2017 8:55:02 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.034.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		24920	33600
2.217		9230	6075
2.31		24823	15514
2.328		2415	1079
2.38		2540	2791
2.423		3539	3308
2.503		1836	2215
2.549		2157	1484
2.659		1309	1159
2.721		1019	1256
2.775		31869	26331
2.829		3703	3586
2.924	TCX	2638975	1721990
3.123		36680	22266
3.192		3694	3164
3.254		6238	3840
3.399		753	777
3.493		626	919
3.53		1898	1383
3.569		9990	6669
3.666		11995	9528
3.851		1700	2007
3.923		693	643
4.173		991	1058
4.193		3057	2797
4.257		2428	4054
4.298		5702	5909
4.481		559	387
4.515		1741	2427
4.574		1062	990
4.761		903	948
4.88		6890	7855
4.924		1736	3316
5.007		1619	1680
5.042		1601	2619
5.12		13190	12528
5.209		1528	2087
5.433		5904	9339
5.531		12121	11948
5.653		22425	22659
5.749		6149	6064
5.837		1738	2393
6.024		26097	26342
6.089		26499	24295
6.22		2797	16356
6.326		1113	1135
6.394		1164	1525
6.469		15792	16098
6.51		4300	4406
6.616	DCB	1380970	1463535
7.072		1503	1467
7.79		705	1336
8.193		672	652
8.615		962	657

RT A	Compound A	Height A	Area A
8.682		2576	3060

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AIPIBLKAI PIBLK1714599999 10736 SW-846 8082
Injected On: 5/26/2017 8:55:02 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.034.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		26066	14213
2.052		23343	16708
2.156		17367	11969
2.239		21195	29049
2.362		5841	8464
2.41		9164	9227
2.477		5999	4297
2.525		8544	6790
2.546		87614	53220
2.593		3502	2021
2.614	TCX	16423620	9178921
2.702		3494	5638
2.777		11027	7483
2.801		5127	2942
2.832		219097	133349
2.883		7080	8815
2.948		42659	29697
2.988		3478	2407
3.084		2620	1561
3.18		12275	22622
3.267		7639	3990
3.29		78902	44637
3.324		92685	56647
3.354		8635	4836
3.386		3314	1633
3.407		16958	12097
3.449		8271	14486
3.557		5857	9133
3.598		4346	4710
3.712		17959	26501
3.772		4680	3659
3.814		2017	1603
3.859		1961	1218
3.88		2831	1593
3.936		15740	11829
3.97		2434	2198
4.022		4184	6681
4.072		28147	23321
4.151		16423	29332
4.201		14338	19427
4.234		8535	12804
4.331		3725	2905
4.369		2409	1717
4.402		3844	2281
4.439		41399	31806
4.524		4031	5228
4.566		2602	1982
4.592		7165	5227
4.622		5485	3703
4.644		5861	3749
4.668		85921	65573
4.841		37988	46135
4.916		4643	4327
4.984		9351	9504

RT B	Compound B	Height B	Area B
5.026		2551	1345
5.062		65036	63324
5.124		2298	3079
5.184		157469	138398
5.344		65013	97617
5.411		18240	60576
5.477		8901	17457
5.526		189624	163093
5.595		217793	200578
5.644		58996	52806
5.898		2737	2423
5.95		107059	95876
6.071		1626	1646
6.109	DCB	9774110	8636097
6.228		3248	2354
6.256		2473	2409
6.491		2958	5098
6.559		6685	6118
6.719		2343	3011
6.808		2013	3489
6.873		2747	7168
7.044		2413	2182
7.208		2688	6354
7.422		2103	2910
7.537		1377	1321
7.691		1317	3380
7.79		1522	1749
8.214		21866	39763

IBLKX1724A AIPIBLKAI PIBLK1714599999 10736 SW-846 8082

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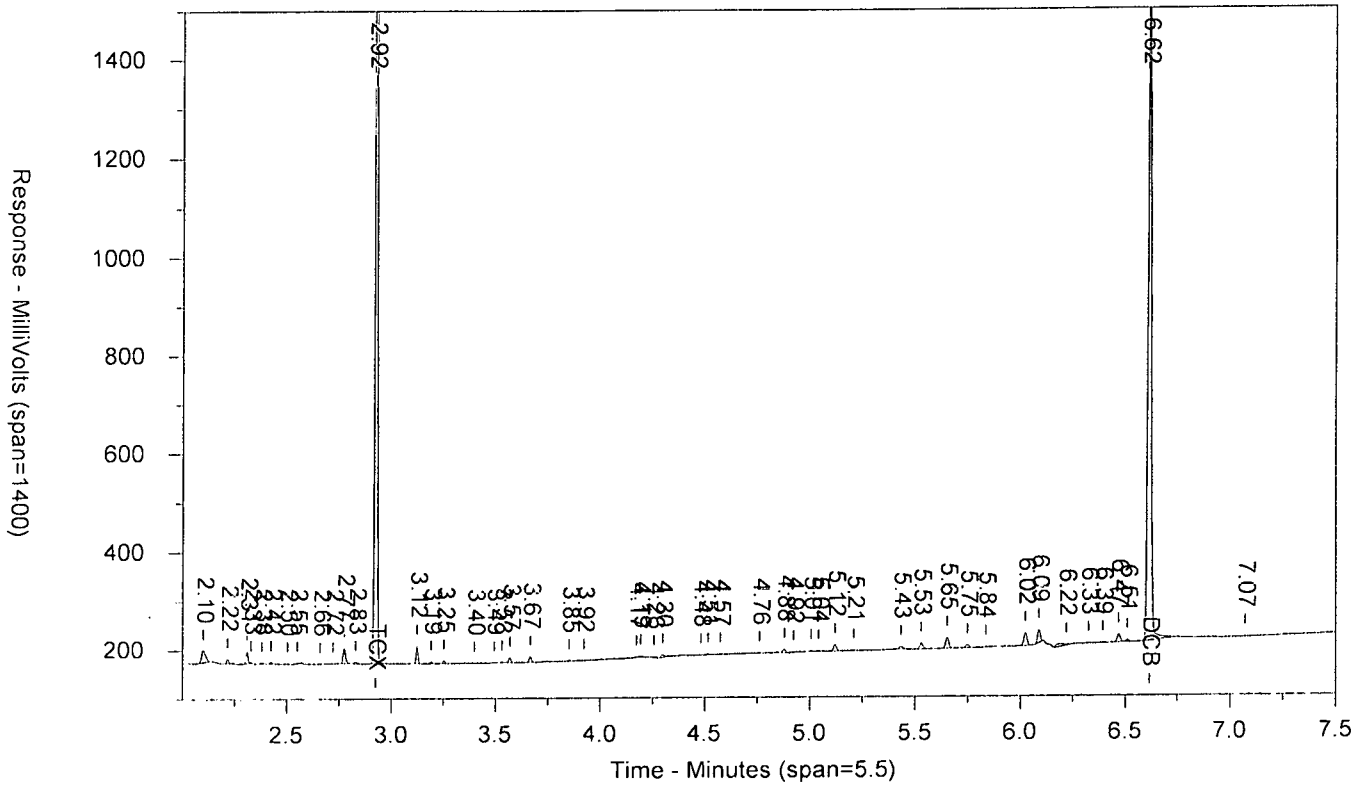

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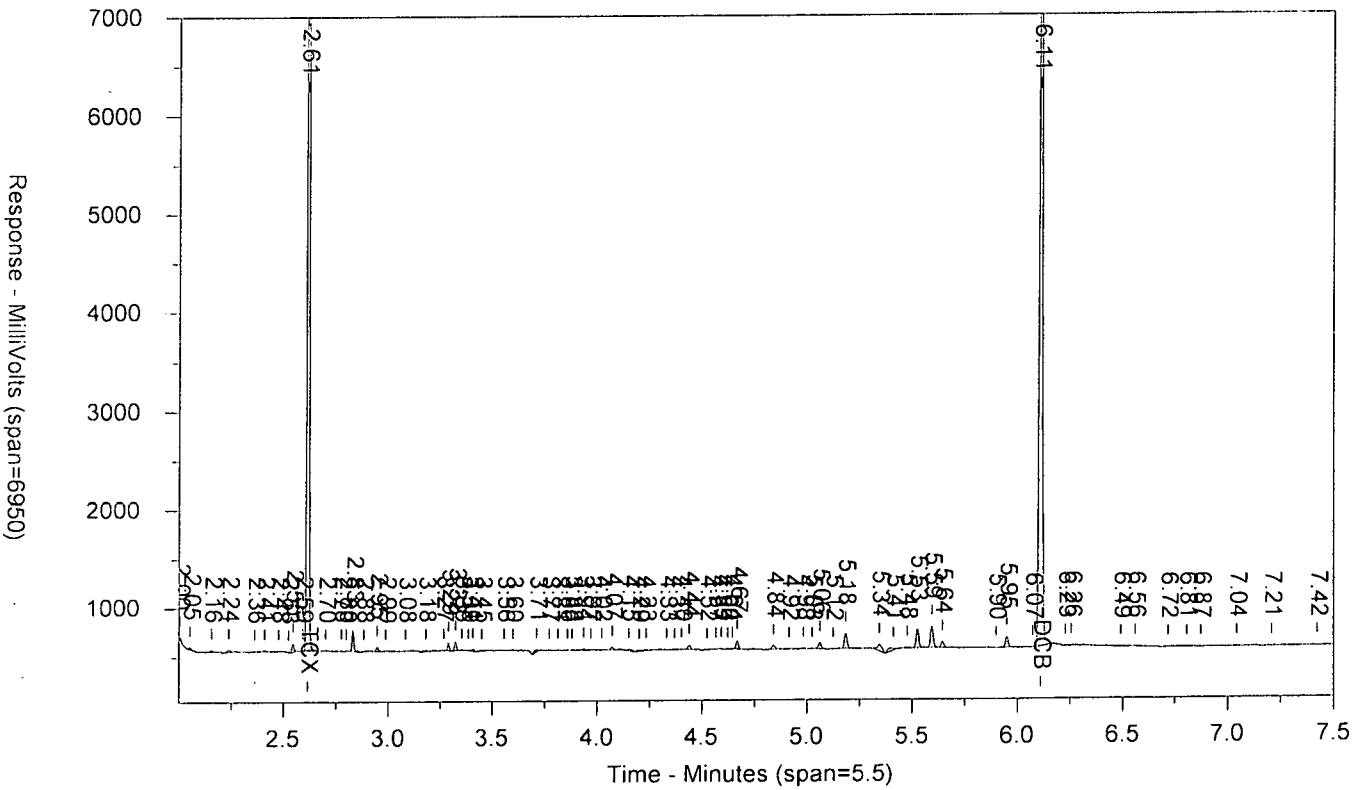

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AIPIBLKAI PIBLK1714599999 10736 SW-846 8082
Injected On: 5/26/2017 8:55:02 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2638975	.232	TCX	2.614	16423620	.238	TCX
6.616	1380970	.201	DCB	6.109	9774110	.201	DCB

Files:
Area File: 20pcbs17137009.034.RAW
Area File: 20pcbs17137009B.034.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 9:03:46 PM
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IBLKX1724A AIPIBLKAI PIBLK1714599999 10736 SW-846 8082

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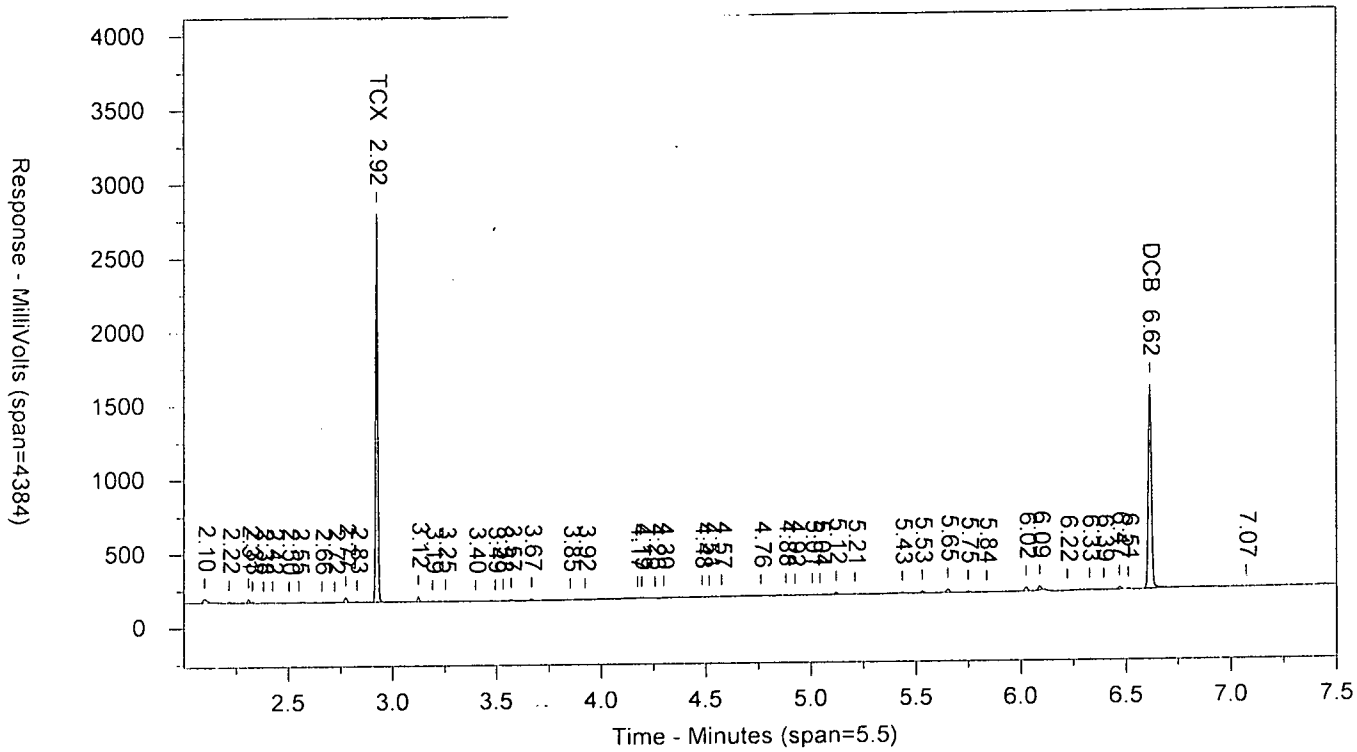

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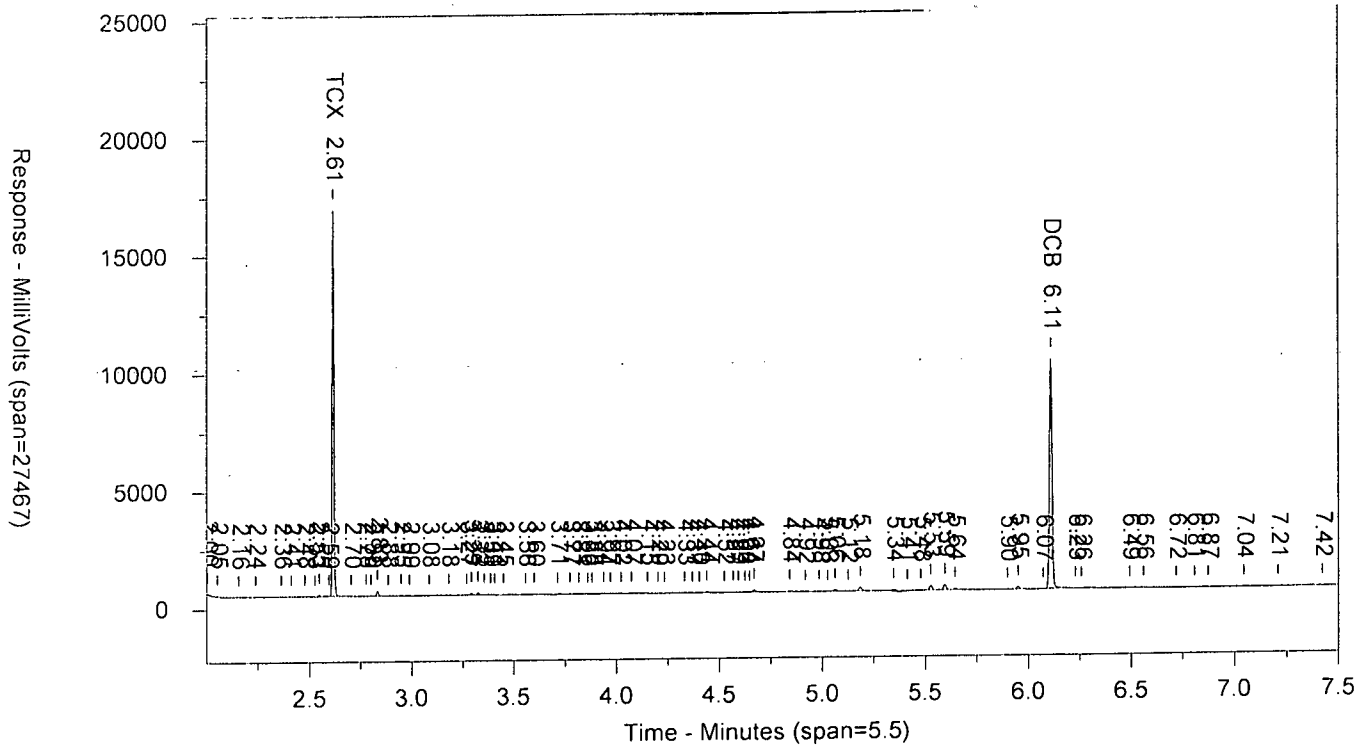

LANCASTER LABORATORIES

Sample Number: AR1631724A FUAR163FU CCAL 1714599999 10736 SW-846 8082
Injected On: 5/27/2017 12:44:25 AM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.054.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.098		16526	34056
2.217		17793	13100
2.309		17275	10084
2.328		5130	2838
2.379		1653	1958
2.425		1911	1494
2.566		7975	9097
2.659		1022	892
2.731		514	690
2.775		25789	21368
2.828		2232	2733
2.924	TCX	4780384	3264125
3.009		1109	594
3.077		86464	71437
3.134		102524	108599
3.181		445361	312193
3.254		8982	4809
3.274		56339	38214
3.313		1742	1488
3.396		431612	258704
3.412		191549	103123
3.449		49257	28306
3.465		14888	6680
3.481		38529	22271
3.512		483478	357451
3.546		1841	945
3.566		12538	7199
3.585		18475	10969
3.621		96573	56356
3.636		49037	23604
3.681		171962	109961
3.691		442352	234101
3.727		537553	403417
3.786		427222	339296
3.826		36139	25487
3.853		317987	229954
3.88		223916	192528
3.902		62199	33418
3.978		342831	249010
4.001		114562	75430
4.032		134021	99296
4.068		345253	365995
4.107		117233	93639
4.153		16675	11933
4.191		21545	18278
4.226		385476	285574
4.246		93261	54359
4.269		100798	73508
4.337		59464	52575
4.38		411970	380011
4.413		13010	8802
4.477		5602	4926
4.517		61589	66013
4.573		32251	24235

RT A	Compound A	Height A	Area A
4.587		80868	53424
4.632		263758	234909
4.678		353200	410946
4.715		85950	63465
4.755		851025	792001
4.797		9423	9283
4.846		140966	156067
4.877		21692	14682
4.902		148974	134724
4.955		1003773	1261730
5.004		181213	161864
5.048		477972	517149
5.09		8720	5114
5.126		104435	133943
5.163		1203280	1303098
5.226		542223	494394
5.269		355985	336057
5.39		674712	905564
5.449		304980	288347
5.489		174867	152085
5.53		55370	55722
5.574		225556	216005
5.629		1535268	1620748
5.718		1983	1861
5.837		867230	891169
5.876		69770	84570
5.89		81283	55809
6.022		60796	61937
6.086		57239	43376
6.108		145496	117928
6.265		352472	360578
6.31		25557	25386
6.465		122109	124471
6.61	DCB	3061542	3085653
7.064		2609	2909
7.246		678	489
7.391		773	1025
7.737		830	2421
7.956		668	790
8.682		2837	3126

LANCASTER LABORATORIES

Sample Number: AR1631724A FUAR163FU CCAL 1714599999 10736 SW-846 8082
Injected On: 5/27/2017 12:44:25 AM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.054.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		8712	7298
2.052		41162	29411
2.117		2459	2209
2.155		29058	21413
2.201		6270	2713
2.239		15388	23128
2.272		3136	1913
2.299		27325	19195
2.367		2773	2958
2.41		8520	11499
2.478		8128	28683
2.546		74639	46309
2.57		5538	2866
2.614	TCX	30063120	17235650
2.657		190822	130428
2.701		9662	6906
2.785		520034	344208
2.832		273448	127522
2.845		408840	204538
2.898		2383431	1473601
2.948		71632	41320
2.985		3583	1713
3.008		317901	197536
3.104		3037356	2890869
3.155		338979	211551
3.176		199898	110177
3.201		253009	145249
3.225		2967969	1957524
3.262		144155	83243
3.29		88733	43555
3.308		775030	406496
3.324		479126	231539
3.352		8561	3938
3.373		1869753	862130
3.383		3623577	1442460
3.403		139084	53541
3.416		2978352	1932267
3.491		3485653	2108598
3.525		2305497	1418664
3.549		2628614	1405596
3.566		780837	390828
3.652		2950275	1877503
3.674		1074386	557311
3.695		1004782	597035
3.724		713778	367574
3.741		2473662	1417950
3.782		866579	629825
3.829		166407	146523
3.852		655375	385944
3.874		3313538	2115601
3.899		697880	409160
3.918		120950	58374
3.937		393240	238114
3.972		2653936	1836476

RT B	Compound B	Height B	Area B
4.006		153703	90805
4.022		246820	150995
4.07		12277	8232
4.083		19952	11707
4.108		270142	338197
4.15		23971	12445
4.174		755501	534493
4.216		615409	366327
4.235		712094	348010
4.248		1755733	941052
4.274		1063760	1096942
4.326		5780098	4481686
4.372		99509	96365
4.395		653886	431855
4.42		1310437	950993
4.463		7043846	5277627
4.566		5565014	5408640
4.619		763396	616862
4.657		1596359	1404114
4.693		7310608	6035306
4.726		3284379	2301368
4.764		2449108	1883664
4.836		10269	13859
4.864		824946	869745
4.915		4332550	3436437
4.939		612713	404061
4.989		2251569	2079371
5.025		1167026	937327
5.055		932477	790723
5.087		379103	236848
5.109		10047380	8258003
5.151		207568	157874
5.183		636359	524837
5.257		4506	5172
5.301		111643	72705
5.325		1988304	1680179
5.37		6774912	7344617
5.525		457879	390950
5.57		167800	120175
5.593		444525	357881
5.642		1217890	1097542
5.749		2568884	2133735
5.78		145240	107832
5.902		4168	3410
5.948		847838	746927
6.068		2774	1913
6.106	DCB	21708070	18746680
6.281		7562	9990
6.442		3516	2132
6.512		3294	2385
6.555		16073	16069
6.732		3228	4991
7.424		2608	7255
7.596		2291	2577
7.844		2830	3091
7.901		1579	1339
8.21		22037	41309

AR1631724A FUAR163FU CCAL 1714599999 10736 SW-846 8082

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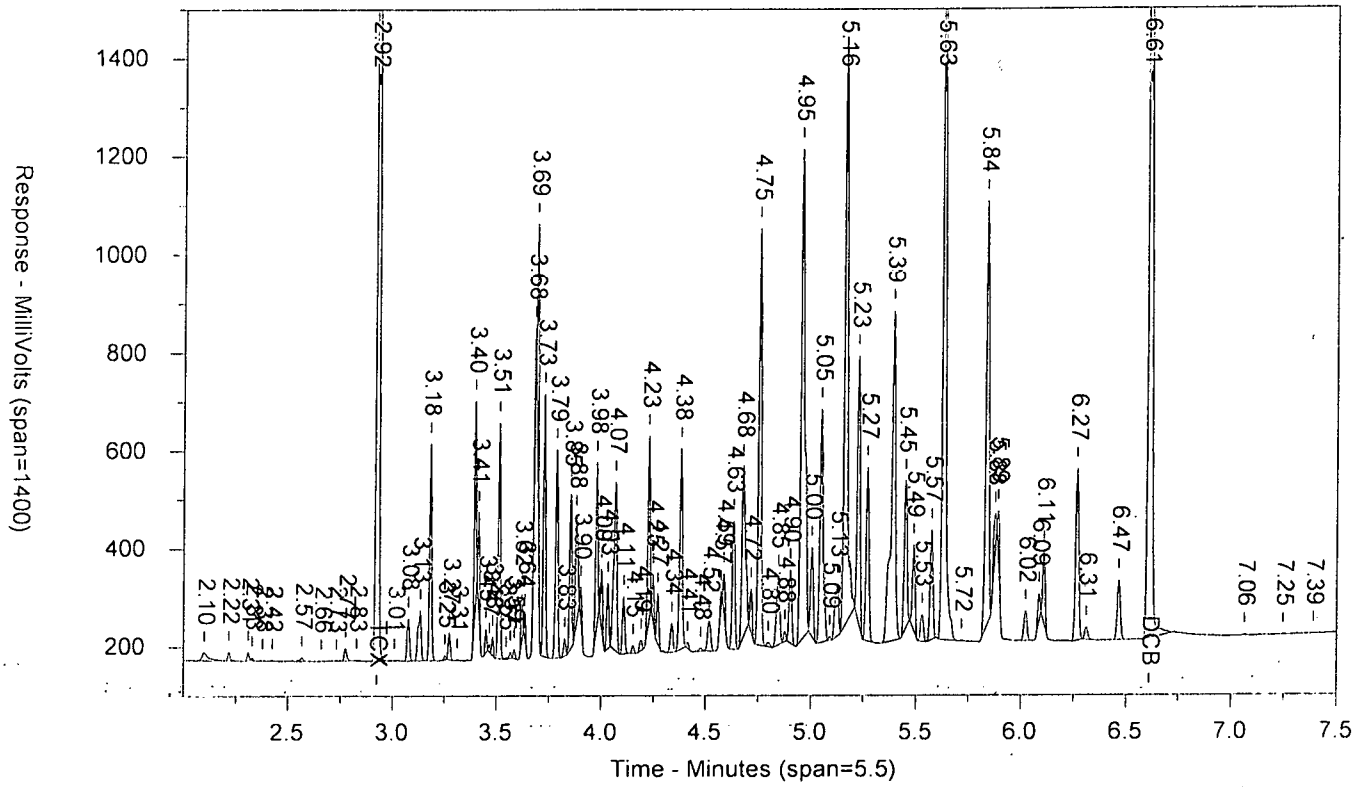

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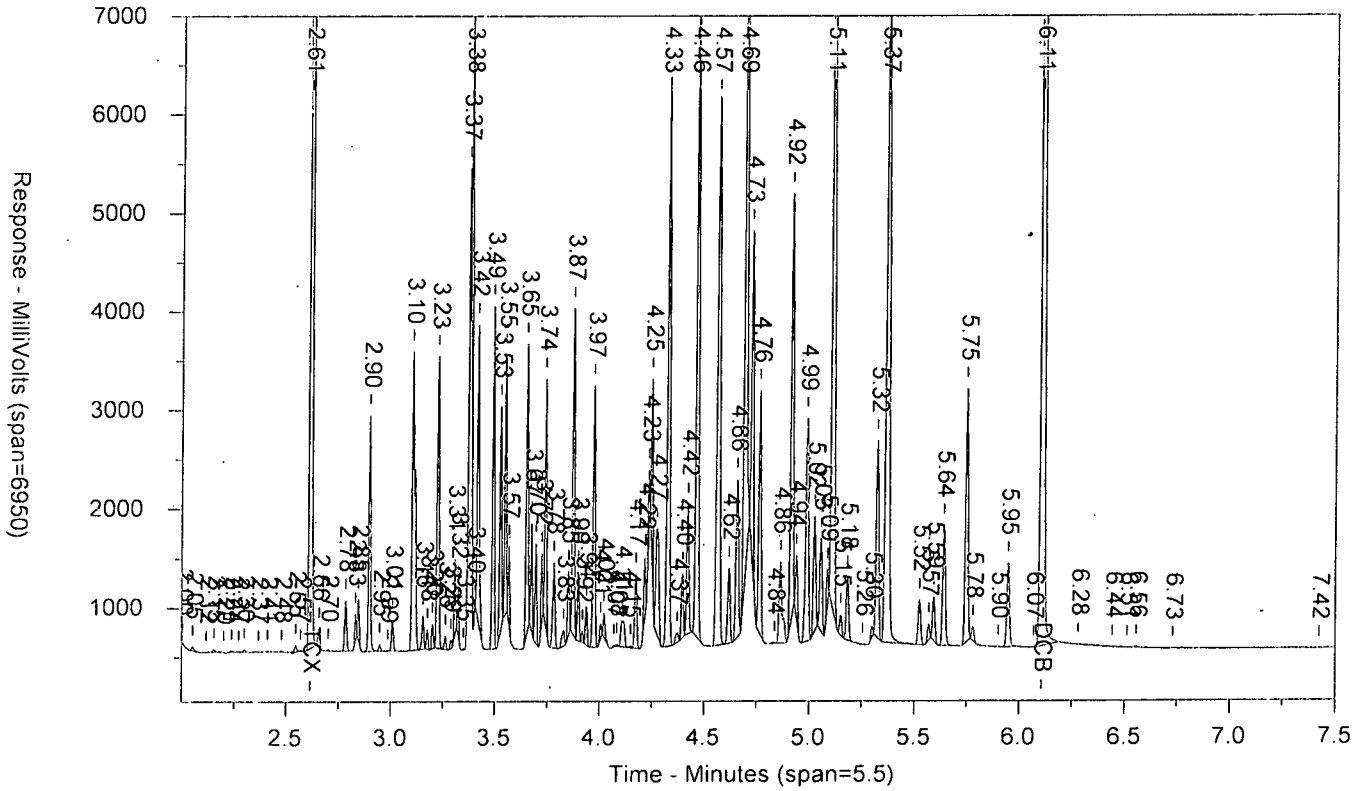

LANCASTER LABORATORIES

Sample Number: AR1631724A FUAR163FU CCAL 1714599999 10736 SW-846 8082
Injected On: 5/27/2017 12:44:25 AM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4780384	42.066	TCX	2.614	30063120	43.487	TCX
6.61	3061542	44.489	DCB	6.106	21708070	44.559	DCB

Files:
Area File: 20pcbs17137009.054.RAW
Area File: 20pcbs17137009B.054.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/27/2017 12:53:09 AM
File Reported On: 5/27/2017 at 12:53:17 AM

AR1631724A FUAR163FU CCAL 1714599999 10736 SW-846 8082

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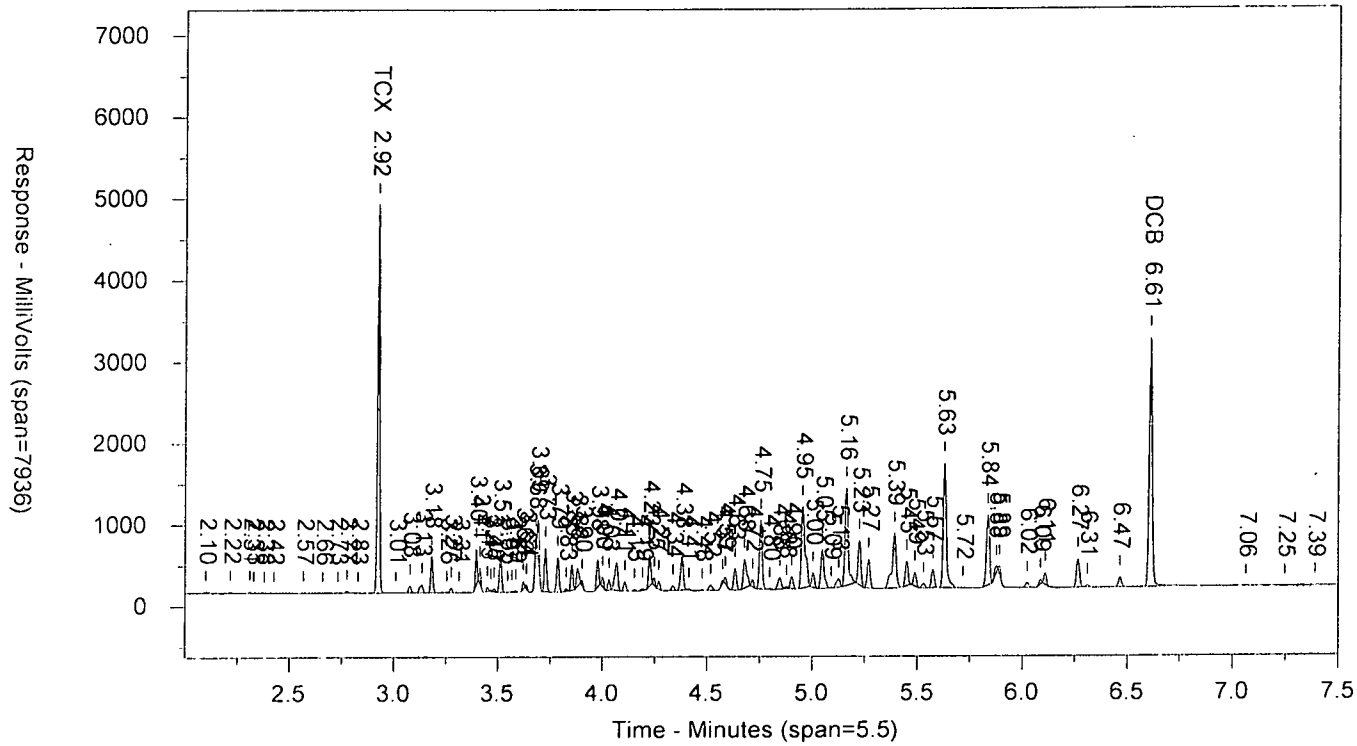

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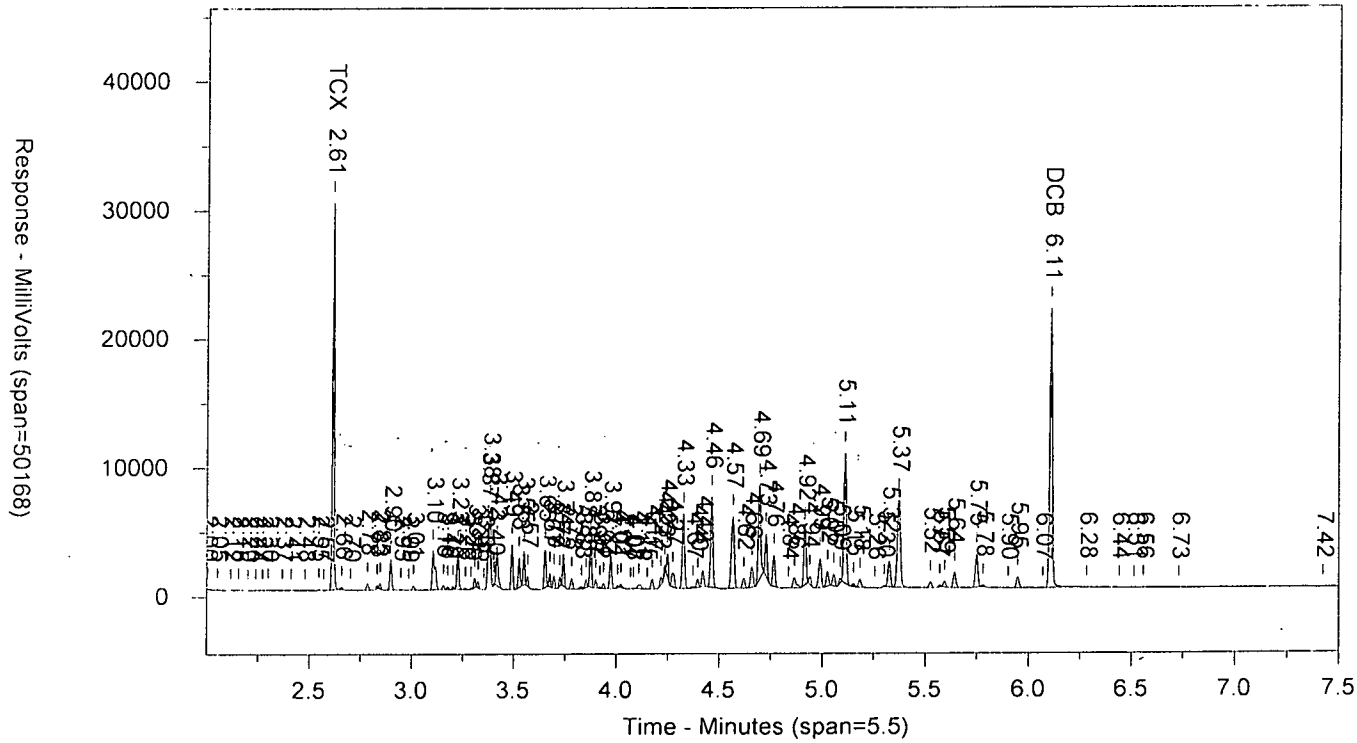

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AJPIBLKAJ PIBLK1714599999 10736 SW-846 8082
Injected On: 5/27/2017 12:55:51 AM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.055.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.012		534	567
2.1		31285	62259
2.217		8735	7382
2.31		17426	11038
2.328		2328	1221
2.378		2111	2420
2.425		2924	2321
2.503		1468	1423
2.549		2245	1443
2.655		1327	1137
2.775		25386	20910
2.829		3134	2985
2.924	TCX	2418482	1608784
3.124		34370	21056
3.192		3043	2884
3.254		5527	3520
3.36		1074	1012
3.396		977	1039
3.508		694	599
3.529		1624	1250
3.567		7255	4774
3.665		17438	13004
3.748		1578	1030
3.848		2203	2160
4.054		1502	2106
4.191		3367	5860
4.258		1491	2575
4.296		3816	3574
4.514		2111	2781
4.571		1737	2225
4.742		496	1398
4.877		9145	9738
4.972		851	544
5.117		16833	16321
5.203		2166	3056
5.405		617	1601
5.432		4545	9382
5.529		14333	14792
5.651		26392	25912
5.79		1295	1256
5.836		1521	1559
6.022		27850	28481
6.087		30003	26459
6.225		1421	8293
6.301		935	1496
6.331		2214	2376
6.393		1097	1125
6.434		737	548
6.465		18835	18058
6.511		917	741
6.536		890	725
6.611	DCB	1515286	1521700
6.803		988	454
7.069		1592	1942

RT A	Compound A	Height A	Area A
8.681		1705	1468

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AJPIBLKAJ PIBLK1714599999 10736 SW-846 8082
Injected On: 5/27/2017 12:55:51 AM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.055.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.004		23469	18156
2.052		20179	17324
2.116		2751	2084
2.155		12238	9405
2.201		11119	6341
2.238		18446	28272
2.343		2193	1713
2.363		3935	3278
2.409		9146	9006
2.476		5716	3925
2.529		9784	7171
2.546		72172	44958
2.591		4034	1873
2.615	TCX	14659650	8559943
2.775		6688	4235
2.803		3598	3704
2.832		198549	126222
2.883		6689	7886
2.947		36361	22483
2.985		4349	8363
3.085		2544	1687
3.181		7702	11374
3.226		3177	2256
3.265		9093	4662
3.29		55292	30993
3.324		137198	84704
3.353		3353	1791
3.373		4691	5883
3.407		22924	16505
3.449		6973	11490
3.543		14188	13563
3.581		9478	6168
3.651		1667	1766
3.71		5186	7710
3.769		3429	3662
3.828		3065	2773
3.883		4302	3426
3.934		17499	12431
4.016		5619	7779
4.07		25907	21923
4.107		4223	3026
4.13		3553	1679
4.149		9705	8902
4.196		6397	8123
4.23		7965	9575
4.328		4330	3106
4.438		62950	70528
4.566		6753	15561
4.62		8334	5560
4.641		3063	1709
4.666		112892	86946
4.736		4043	3278
4.761		3154	5546
4.839		29360	41527

RT B	Compound B	Height B	Area B
4.911		5050	3721
4.982		11825	12930
5.06		83298	88604
5.155		9275	7371
5.182		179705	147060
5.341		20215	42609
5.412		7681	27458
5.474		3491	3058
5.524		205143	178706
5.565		2846	2234
5.592		240453	206855
5.642		60713	56106
5.947		125202	108101
5.977		2899	3317
6.066		1606	1326
6.107	DCB	10705000	9341675
6.229		3084	2318
6.557		8871	9733
7.206		1941	3298
7.787		2174	3406
7.905		2083	2966
8.211		20806	44370

IBLKX1724A AJPIBLKAJ PIBLK1714599999 10736 SW-846 8082

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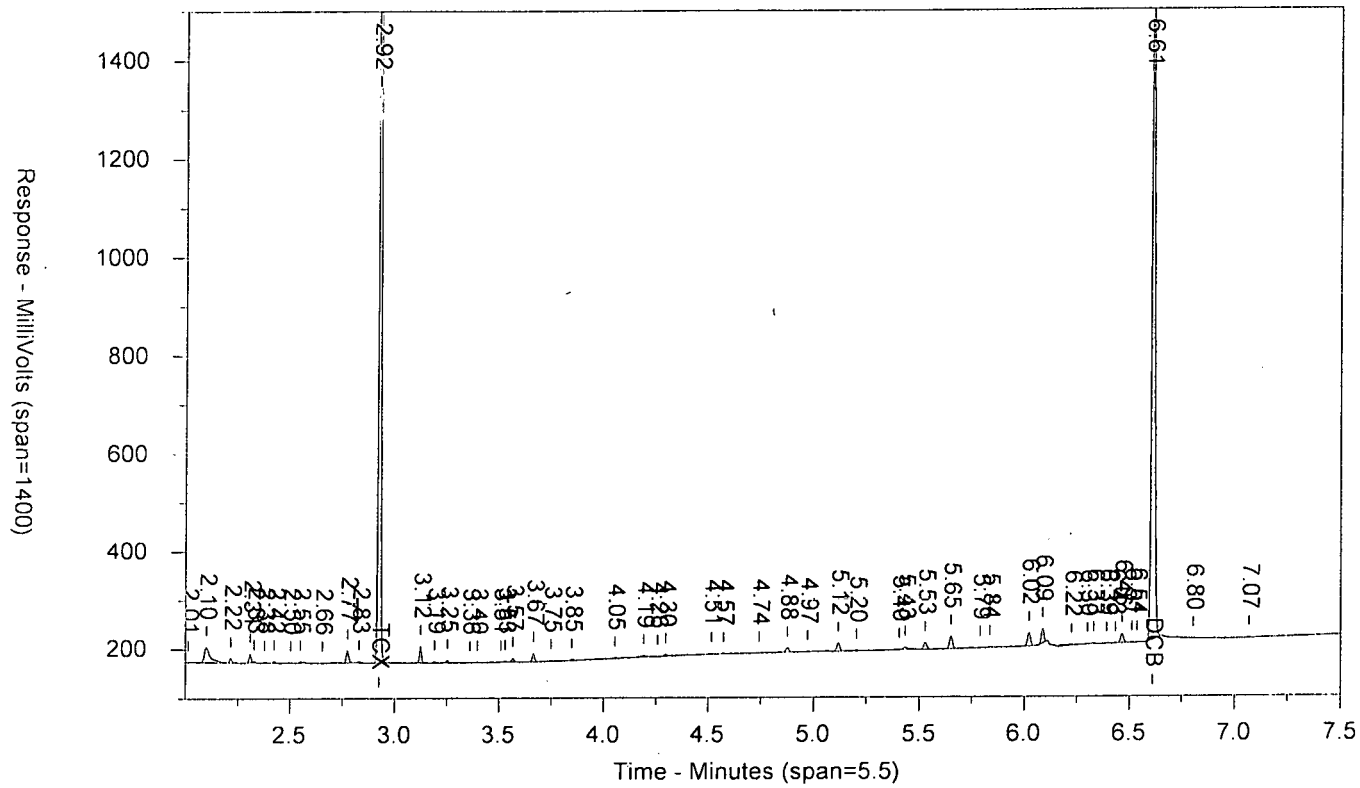

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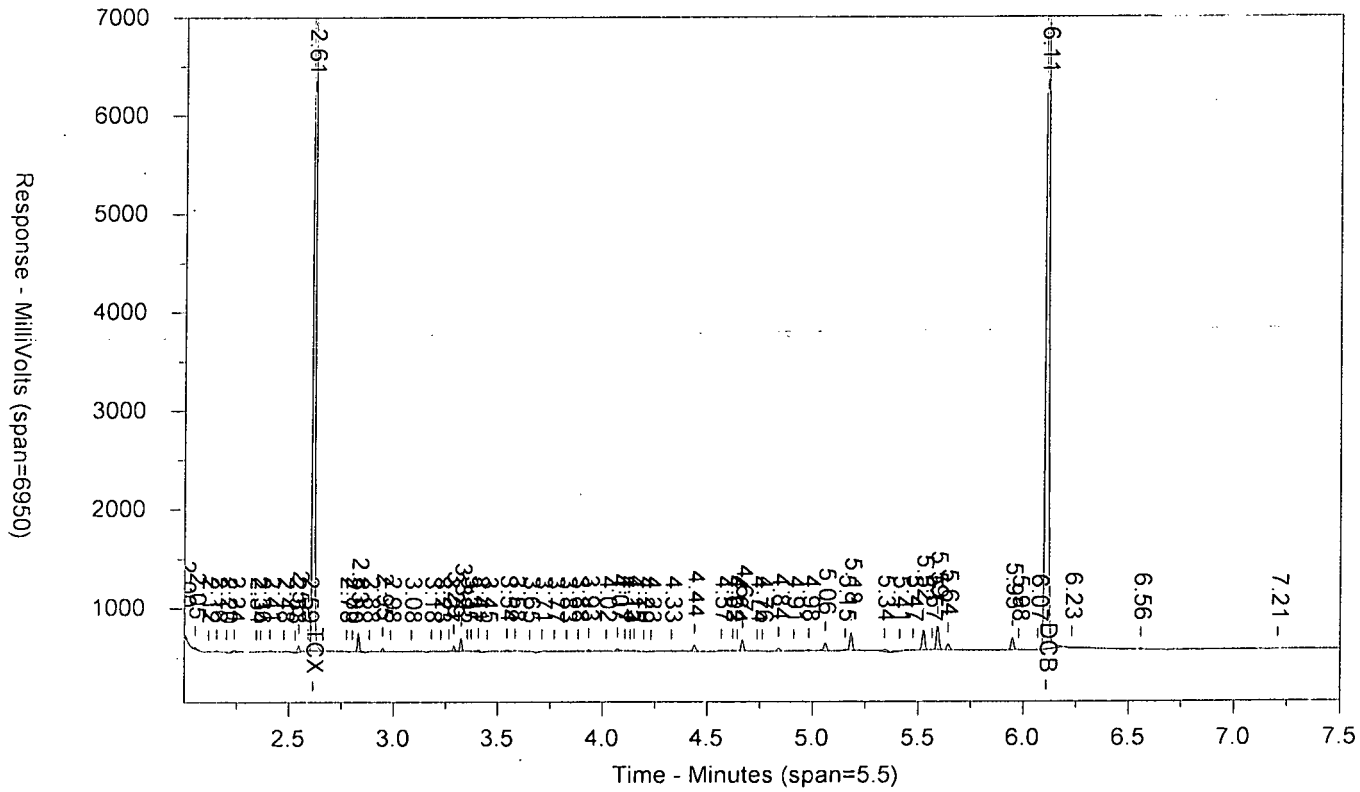

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AJPIBLKAJ PIBLK1714599999 10736 SW-846 8082
Injected On: 5/27/2017 12:55:51 AM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2418482	.213	TCX	2.615	14659650	.212	TCX
6.611	1515286	.22	DCB	6.107	10705000	.22	DCB

Files:
Area File: 20pcbs17137009.055.RAW
Area File: 20pcbs17137009B.055.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/27/2017 1:04:34 AM
File Reported On: 5/27/2017 at 1:04:44 AM

IBLKX1724A AJPIBLKAJ PIBLK1714599999 10736 SW-846 8082

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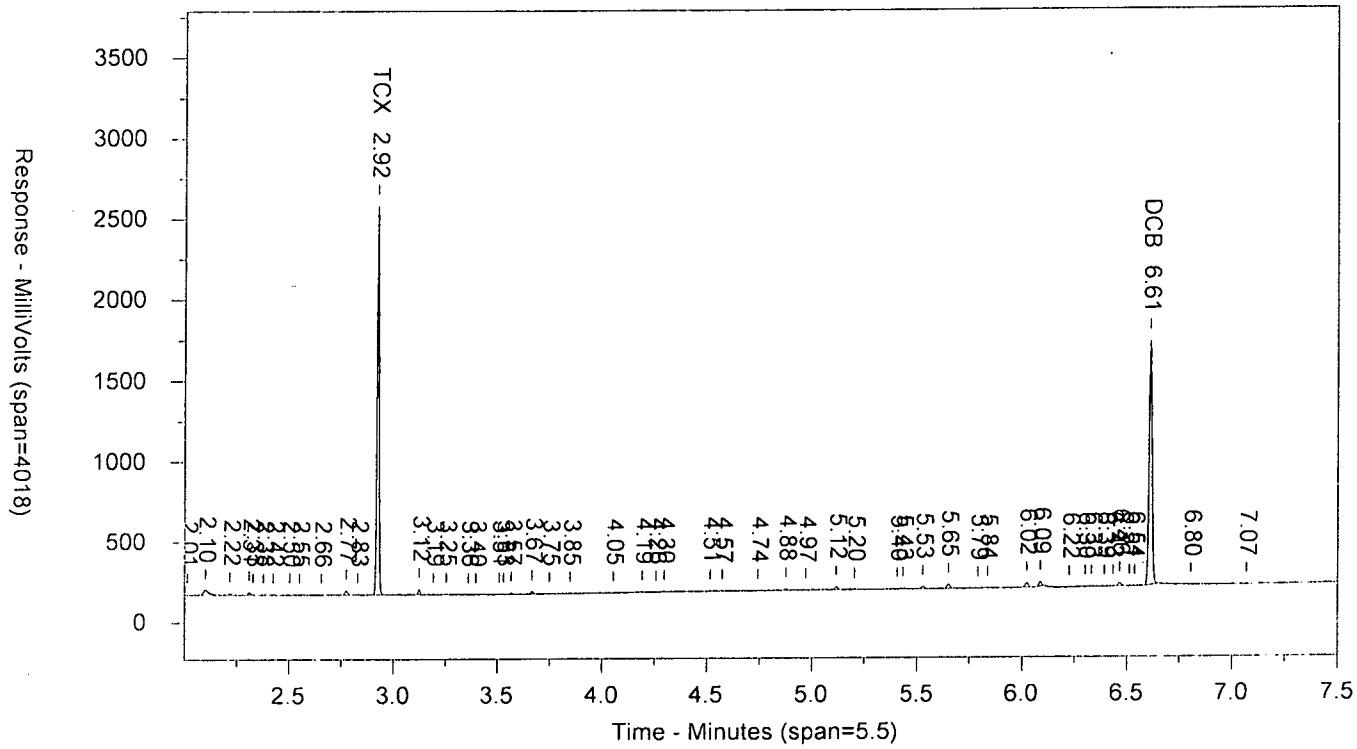

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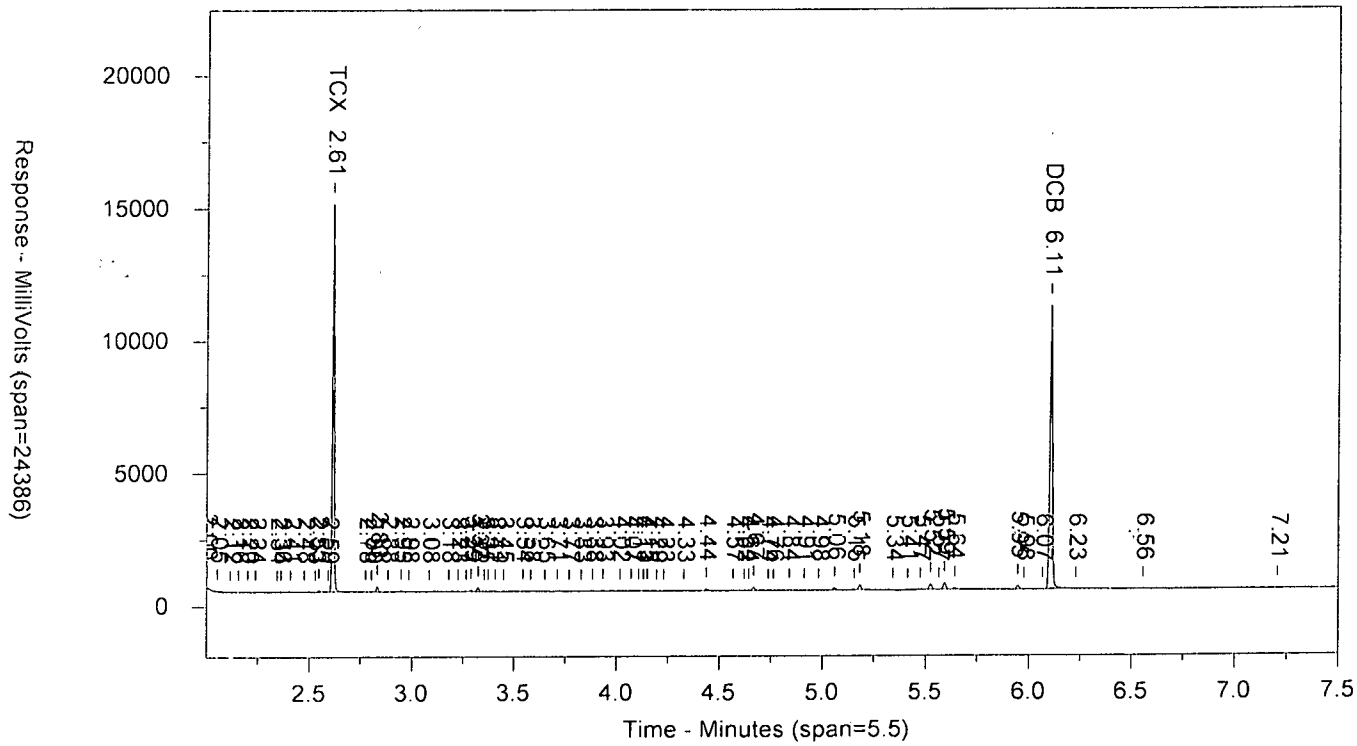

LANCASTER LABORATORIES

Sample Number: AR1631724A FVAR163FV CCAL 1714799999 10736 SW-846 8082
Injected On: 5/28/2017 6:22:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137010.005.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.014		3225	4475
2.096		9081	13324
2.217		17515	14492
2.309		13315	7755
2.329		5720	3420
2.376		2094	2314
2.424		6445	6679
2.565		5855	6158
2.657		1038	1138
2.775		53280	47480
2.828		7551	7300
2.924	TCX	4941186	3275099
3.012		890	404
3.077		86753	71172
3.134		101785	107913
3.182		431728	310343
3.254		8295	4709
3.275		55102	37527
3.314		1914	1365
3.396		414287	256002
3.413		180846	97975
3.45		50870	28689
3.465		14792	6384
3.482		37948	21718
3.512		483050	353536
3.567		12116	7108
3.586		17112	10522
3.622		98315	55136
3.636		45639	22565
3.681		218823	118025
3.692		471800	237048
3.728		536194	401742
3.788		421098	338760
3.827		35571	24586
3.855		309814	229608
3.882		224179	188799
3.903		65729	34451
3.978		348285	253095
4.002		112139	75568
4.032		135419	98454
4.069		349531	363756
4.109		115983	93109
4.153		14468	10888
4.192		20601	16993
4.227		378629	280921
4.247		98009	55442
4.27		101547	73431
4.337		59038	51012
4.381		401965	371712
4.415		11637	7670
4.477		5035	4308
4.518		58010	60224
4.573		36441	25281
4.588		81539	54162

RT A	Compound A	Height A	Area A
4.633		261091	228849
4.679		371924	402490
4.716		82082	61464
4.755		830895	772005
4.798		7380	7671
4.847		136285	151943
4.877		18018	11517
4.903		143329	132070
4.955		1003640	1226867
5.005		170698	157340
5.048		463458	501114
5.09		7716	4782
5.127		99445	125202
5.164		1121406	1056771
5.186		35447	17863
5.225		530810	476592
5.269		335560	325666
5.372		24267	41902
5.391		540689	487071
5.449		302022	275577
5.489		151522	144154
5.53		51414	50562
5.575		223596	207760
5.63		1540670	1558361
5.836		795494	843191
5.875		85430	83895
5.89		80665	56312
6.022		54919	56434
6.086		53845	41709
6.109		123034	110428
6.265		330505	340640
6.311		23309	22504
6.388		1587	1651
6.466		111301	115480
6.612	DCB	2763113	2911623
7.005		982	1065
7.067		1923	1686
7.568		1016	6958
7.886		452	5624
8.029		972	2709
8.206		941	2787
8.619		935	537
8.679		7429	14465

LANCASTER LABORATORIES

Sample Number: AR1631724A FVAR163FV CCAL 1714799999 10736 SW-846 8082
Injected On: 5/28/2017 6:22:37 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137010B.005.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.053		40953	25635
2.112		2670	1889
2.156		7034	8390
2.236		21148	37270
2.299		28476	19863
2.347		2412	2323
2.394		2570	1262
2.413		5854	4628
2.476		7683	24994
2.545		131236	88405
2.59		3349	1498
2.615	TCX	30144390	17009820
2.658		192892	132127
2.703		6108	6918
2.785		502216	330461
2.832		257744	121577
2.846		409250	204460
2.898		2421355	1454589
2.948		68801	39106
2.984		1633	743
3.009		305125	191613
3.104		2953491	2833935
3.156		293671	180827
3.176		190470	106061
3.202		259001	142583
3.226		2976638	1933986
3.262		133959	76938
3.29		84237	40745
3.308		767094	401583
3.323		463176	226921
3.352		8235	3989
3.374		1511761	770251
3.384		3432331	1480134
3.403		132179	48447
3.417		2373377	1647844
3.491		3398571	2091507
3.525		2345406	1391080
3.549		2568980	1382099
3.567		783645	399064
3.652		2818221	1852578
3.675		840690	453614
3.696		1001501	586929
3.725		681190	339385
3.742		2395029	1385945
3.783		852170	615240
3.83		151523	131358
3.852		636943	378674
3.874		3270613	2083491
3.9		691204	403426
3.919		114804	57731
3.938		323849	196171
3.973		2587107	1788930
4.007		141002	82801
4.022		221581	139418

RT B	Compound B	Height B	Area B
4.07		8818	5310
4.084		16674	9888
4.109		42050	32621
4.117		102857	48383
4.15		20146	10951
4.174		757723	522556
4.218		488294	287347
4.235		649475	315550
4.248		1603451	895440
4.275		1032041	1057927
4.326		5665844	4347614
4.373		91545	86747
4.396		620144	417117
4.421		1270378	914276
4.463		6606450	5175829
4.515		7674	9783
4.566		5508934	5221482
4.62		725195	600808
4.658		1484254	1349975
4.694		7068848	5866656
4.726		3117375	2241745
4.765		2382619	1811682
4.834		12845	22272
4.865		802598	835277
4.916		4252693	3332762
4.94		623533	393006
4.99		2226003	1997540
5.025		1143293	898025
5.056		867654	747765
5.087		379339	216270
5.11		9497795	7736742
5.151		203652	152927
5.183		573677	473010
5.301		110071	69576
5.325		1943184	1613314
5.369		6744260	7042994
5.489		4659	2707
5.525		411343	357294
5.569		168093	116494
5.594		423429	336801
5.642		1187954	1028513
5.749		2374783	2027006
5.78		137768	101402
5.948		799496	688598
6.107	DCB	20619100	17864160
6.285		6610	4758
6.357		2891	4103
6.558		16153	25912
6.888		1415	2680
7.02		1796	2803
7.072		2025	3771
7.307		3422	6043
7.423		2926	5136
7.631		1777	5384
7.839		3998	7362
8.137		3039	5903
8.215		20289	37131
8.36		2210	2573
8.415		1970	1321
8.65		1683	1388

AR1631724A FVAR163FV CCAL 1714799999 10736 SW-846 808

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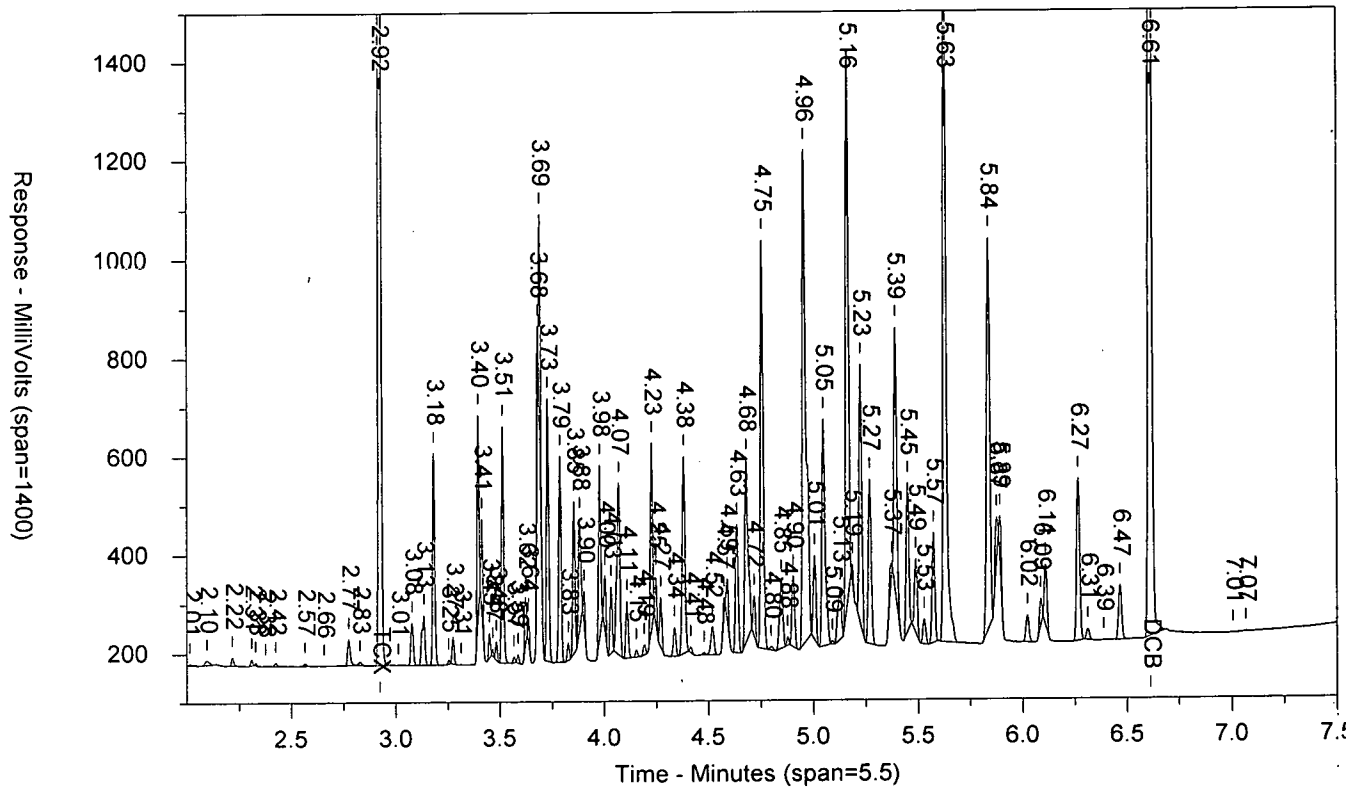

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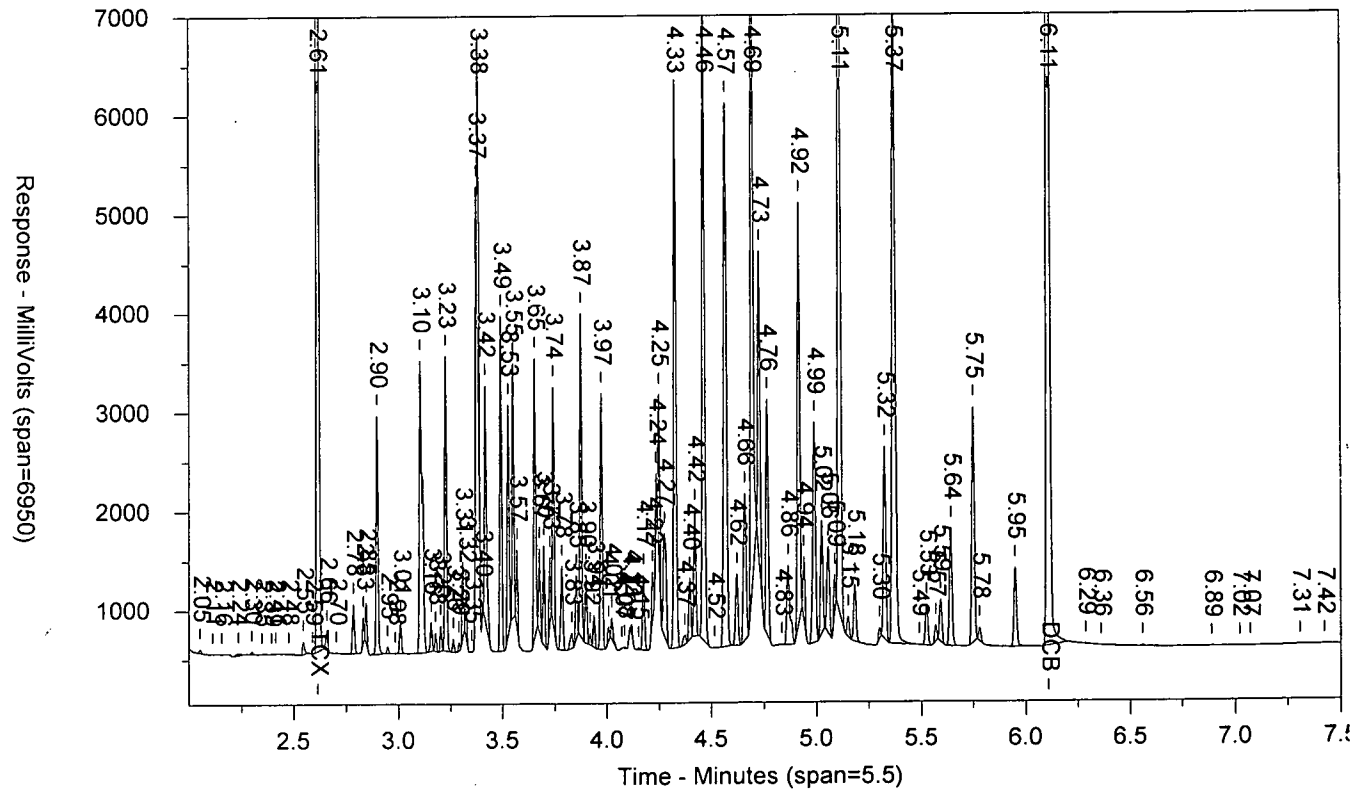

LANCASTER LABORATORIES

Sample Number: AR1631724A FVAR163FV CCAL 1714799999 10736 SW-846 8082
Injected On: 5/28/2017 6:22:37 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4941186	43.481	TCX	2.615	30144390	43.605	TCX
6.612	2763113	40.152	DCB	6.107	20619100	42.324	DCB

Files:
Area File: 20pcbs17137010.005.RAW
Area File: 20pcbs17137010B.005.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/28/2017 6:31:21 PM
File Reported On: 5/30/2017 at 9:14:48 AM

AR1631724A FVAR163FV CCAL 1714799999 10736 SW-846 808

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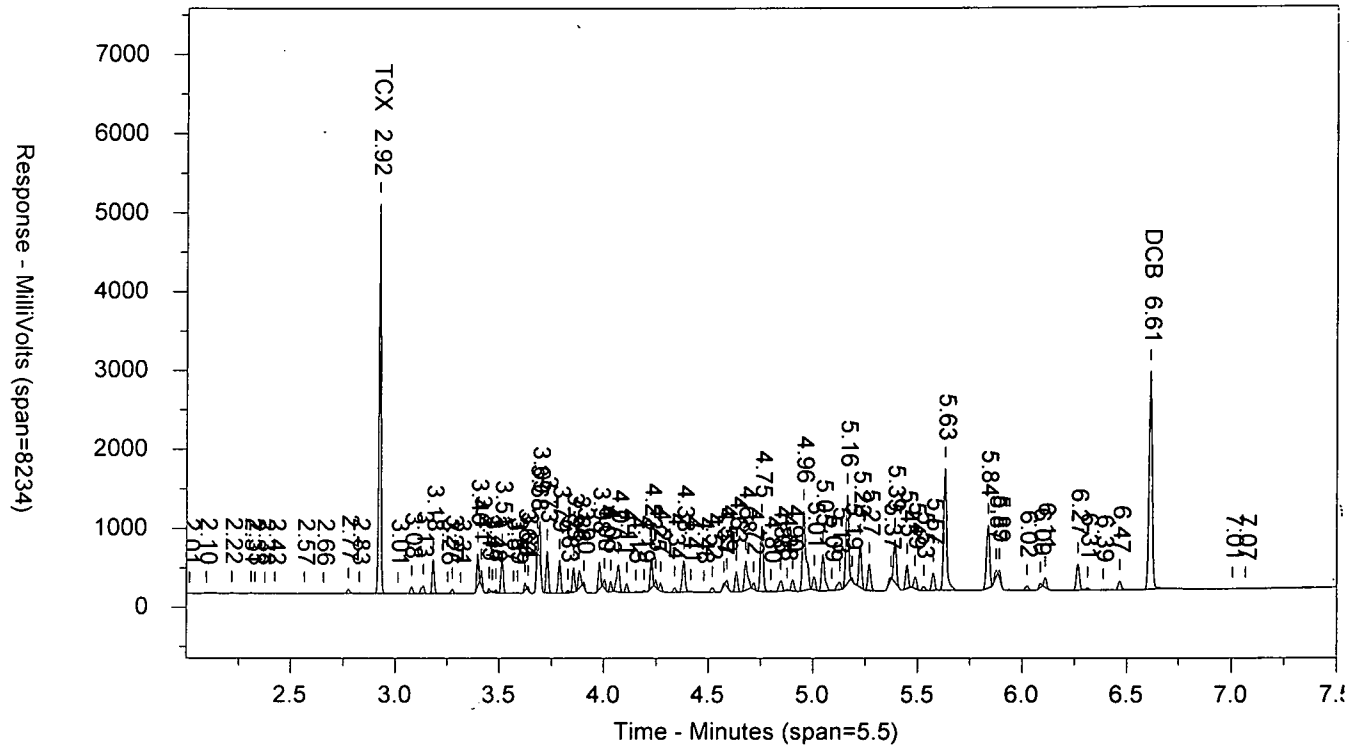

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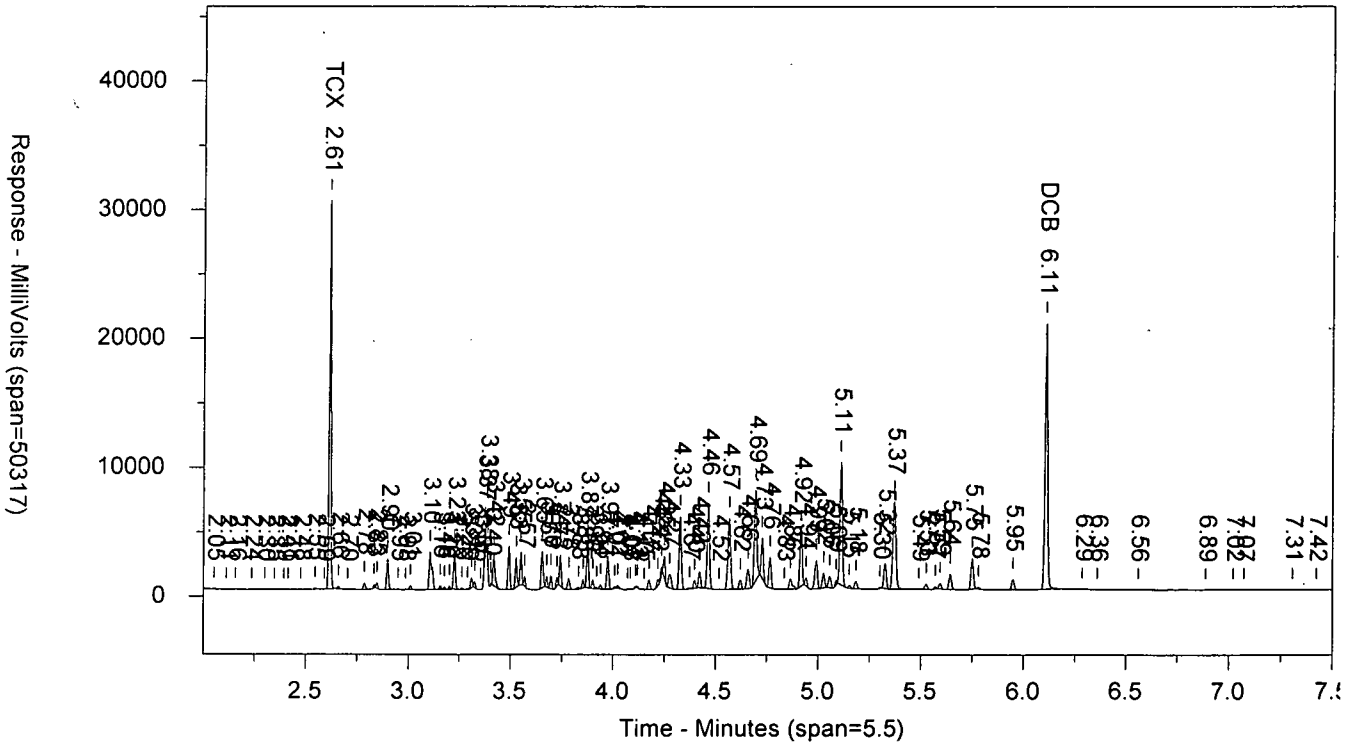

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AKPIBLKAK PIBLK1714799999 10736 SW-846 8082
Injected On: 5/28/2017 6:34:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137010.006.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.1		13776	29699
2.217		8495	7202
2.31		18320	11567
2.329		2293	1153
2.377		2152	2016
2.424		5430	4506
2.505		1412	1646
2.55		1962	1368
2.656		1178	1211
2.743		837	1609
2.775		38624	33465
2.828		5929	5313
2.924	TCX	2393918	1601278
3.072		652	593
3.124		33532	21314
3.192		5833	5001
3.255		5138	3542
3.493		1881	1245
3.529		3480	2917
3.569		6594	4583
3.666		13012	9464
3.75		1680	1357
3.849		3096	3572
3.893		962	608
4.063		557	828
4.171		2452	1721
4.193		2666	2241
4.296		4500	5582
4.51		2751	3402
4.572		1231	1174
4.851		1534	1342
4.878		6637	5360
4.921		1619	1730
5.12		13669	13624
5.205		2752	3618
5.432		8624	13636
5.53		13656	14427
5.651		22942	22702
5.749		1154	1064
5.838		2811	3557
6.023		24106	26298
6.088		28459	23774
6.109		3424	2186
6.178		1451	1616
6.393		1122	926
6.465		15668	16518
6.508		1428	1241
6.611	DCB	1508235	1494400
6.884		885	650
7.066		1517	1572
7.374		609	934
8.02		671	2868
8.402		458	1317
8.597		563	1458

RT A	Compound A	Height A	Area A
8.678		4864	7239

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AKPIBLKAK PIBLK1714799999 10736 SW-846 8082
Injected On: 5/28/2017 6:34:04 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137010B.006.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		7777	4213
2.053		20379	13477
2.119		2943	2676
2.155		7672	5792
2.237		21972	33047
2.293		1589	1031
2.362		5196	6770
2.41		6404	9589
2.476		4991	3746
2.529		7863	5947
2.546		101743	75333
2.614	TCX	14028220	8444067
2.777		8845	7008
2.8		5052	4306
2.832		199762	128135
2.882		6811	6704
2.948		36177	23643
2.987		3290	5401
3.181		22667	37214
3.225		3939	2835
3.266		8700	4474
3.29		51868	28654
3.324		102432	63953
3.352		2194	1135
3.407		27962	17186
3.447		13884	21725
3.545		10457	11970
3.583		3589	6721
3.711		8761	13055
3.769		3359	4399
3.879		2810	4441
3.935		9084	6985
3.981		4256	8774
4.019		4506	5914
4.072		22423	19580
4.132		1595	898
4.151		10941	13577
4.196		12530	12680
4.242		13230	47157
4.329		2822	2454
4.369		2318	1909
4.439		49891	59588
4.549		946	14016
4.578		5609	9369
4.621		5446	4222
4.643		2912	1838
4.667		90540	70704
4.841		48470	73511
4.913		3887	3210
4.983		8382	9644
5.061		77002	81174
5.155		3153	9511
5.184		154544	129293
5.341		16373	32527

RT B	Compound B	Height B	Area B
5.474		5597	48365
5.525		185582	155872
5.593		213058	196130
5.643		60114	55240
5.692		3286	2945
5.901		3441	3241
5.949		113916	95642
6.002		2386	1756
6.107	DCB	10275940	9169516
6.202		5276	3545
6.556		9504	11363
6.73		2211	4965
6.887		1884	3114
7.089		1599	1136
7.414		2884	3701
7.85		2006	1597
7.907		2822	3986
8.054		1943	2534
8.131		2701	5322
8.211		20264	33379

IBLKX1724A AKPIBLKAK PIBLK1714799999 10736 SW-846 8082

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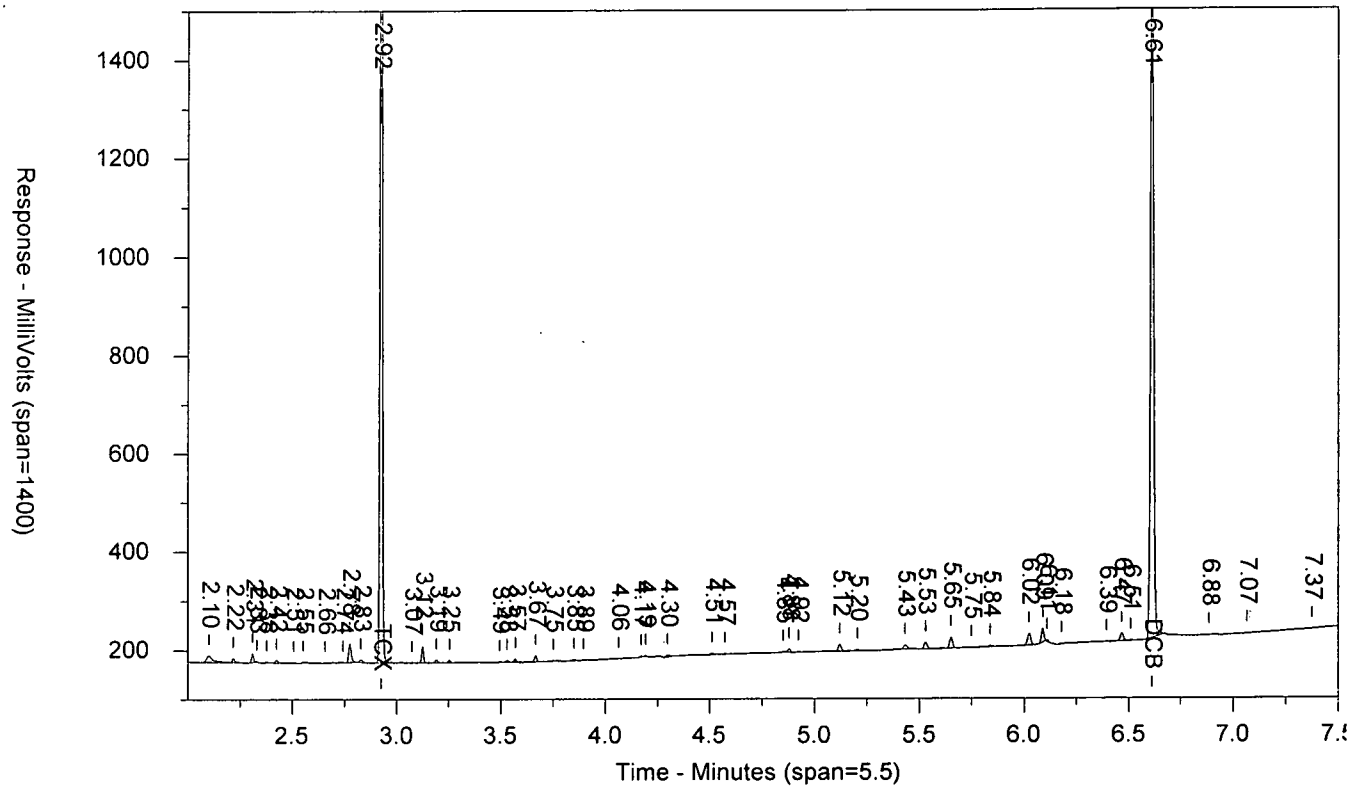

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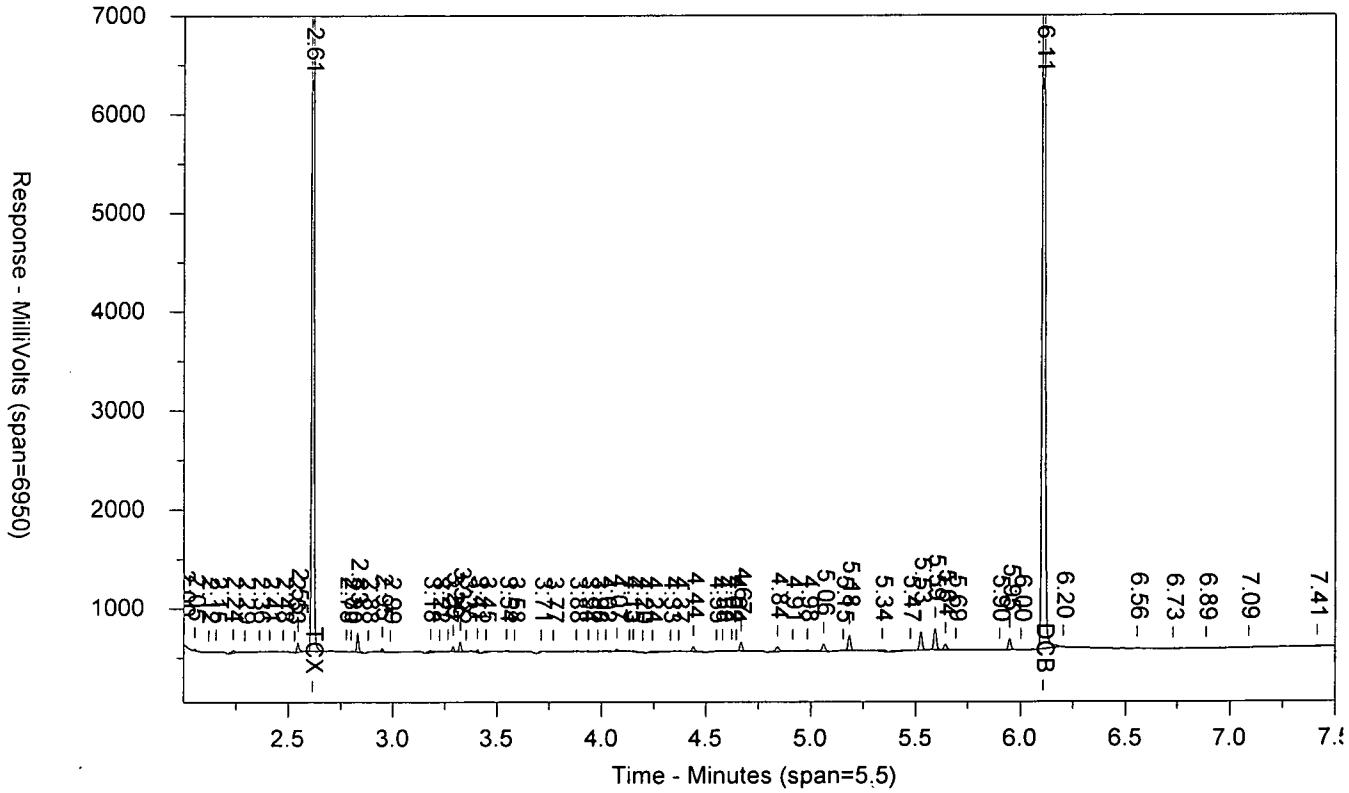

LANCASTER LABORATORIES

Sample Number: IBLKX1724A AKPIBLKAK PIBLK1714799999 10736 SW-846 8082
Injected On: 5/28/2017 6:34:04 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2393918	.211	TCX	2.614	14028220	.203	TCX
6.611	1508235	.219	DCB	6.107	10275940	.211	DCB

Files:
Area File: 20pcbs17137010.006.RAW
Area File: 20pcbs17137010B.006.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/28/2017 6:42:48 PM
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IBLKX1724A AKPIBLKAK PIBLK1714799999 10736 SW-846 8082

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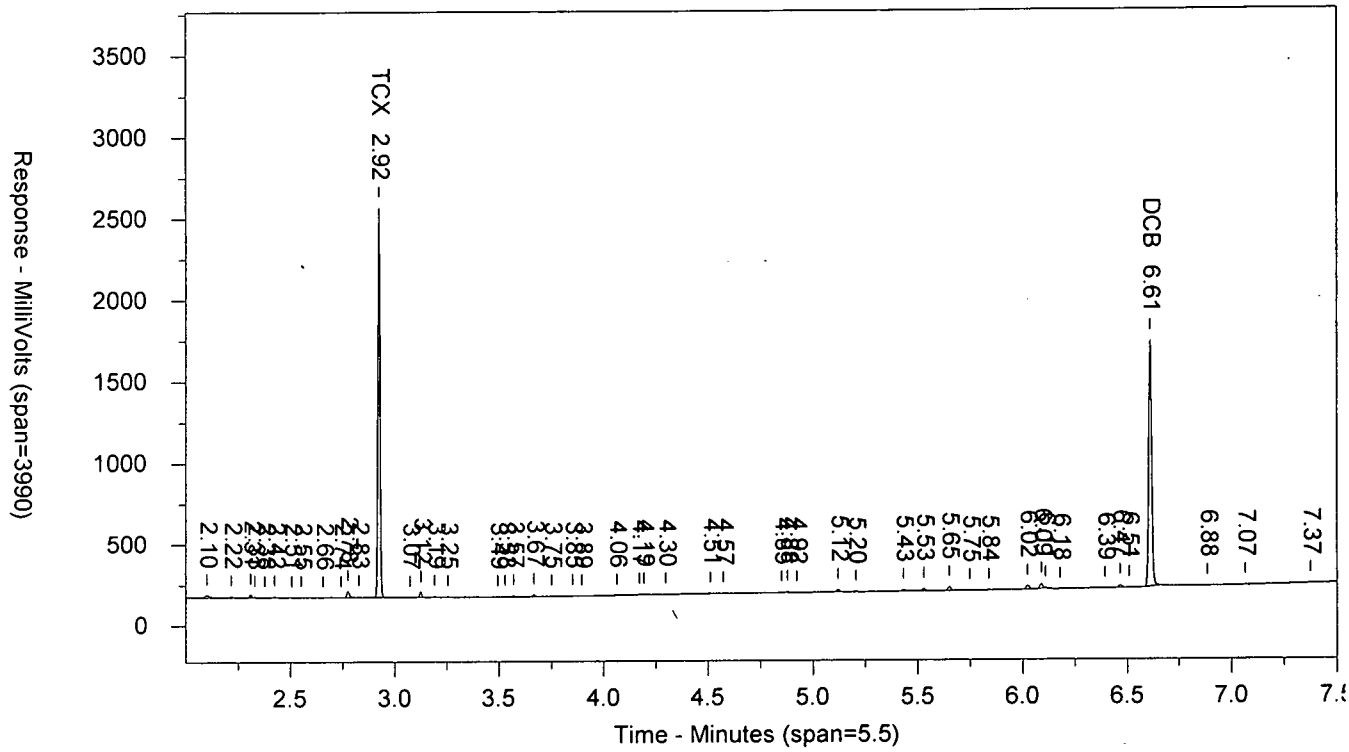

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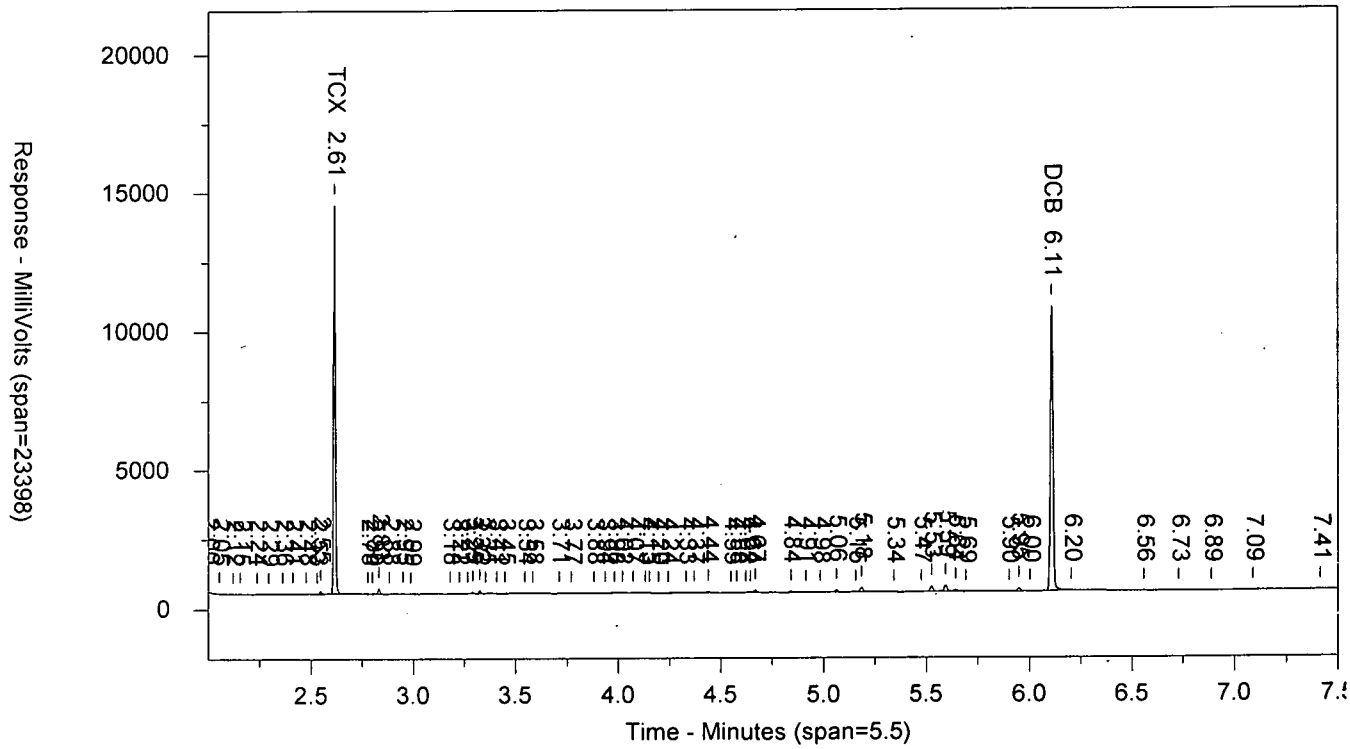

LANCASTER LABORATORIES

Sample Number: AR1631724A FWAR163FW CCAL 1714799999 10736 SW-846 8082
Injected On: 5/28/2017 10:34:31 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137010.027.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.101		14187	30426
2.217		16880	12684
2.31		14300	8610
2.329		5635	3098
2.378		2356	2820
2.424		3397	3138
2.566		6249	6253
2.66		949	815
2.775		30288	26050
2.828		3699	4380
2.924	TCX	4818106	3262688
3.026		1142	571
3.077		82060	67316
3.134		102424	107810
3.182		439067	308641
3.254		8806	4962
3.275		57769	37975
3.315		1405	984
3.362		982	486
3.396		415317	258323
3.413		187563	98362
3.449		51870	29152
3.465		15028	6432
3.482		38595	22510
3.511		483079	358716
3.548		1792	971
3.567		11376	6448
3.585		17658	10539
3.621		99732	57460
3.636		44658	23176
3.681		191052	113020
3.691		459019	239201
3.727		538073	408267
3.786		444790	344089
3.826		36481	25722
3.854		320530	233850
3.881		239718	195454
3.902		67925	35535
3.977		347696	256494
4.002		119308	76193
4.032		134290	99614
4.067		361098	369093
4.108		116007	94277
4.153		16130	11770
4.191		20995	17550
4.226		381426	281728
4.246		95635	52947
4.269		102487	74155
4.337		60232	52368
4.38		400372	379667
4.415		12674	8846
4.478		5366	4647
4.516		67890	70050
4.572		38016	26972

RT A	Compound A	Height A	Area A
4.586		72546	51028
4.633		263619	231627
4.678		346099	403972
4.716		86393	63831
4.755		827732	780370
4.798		10568	10409
4.846		138079	152678
4.877		21223	14304
4.902		141740	130011
4.954		985124	1232814
5.003		174855	158392
5.048		462414	504352
5.089		9484	5774
5.127		103218	132676
5.163		1172693	1063045
5.186		36540	15548
5.225		524708	475193
5.269		328785	325735
5.37		28853	36592
5.391		525692	487166
5.449		311974	281047
5.488		156307	139006
5.529		55927	55715
5.574		211941	210386
5.63		1466110	1533938
5.712		1683	2057
5.837		786193	827120
5.874		67622	70743
5.889		72634	50750
6.021		64020	65232
6.086		60218	45193
6.108		127987	107175
6.264		324934	324691
6.31		22674	21998
6.463		108044	112514
6.609	DCB	2597290	2708549
7.062		2492	3259
8.681		3842	6604

LANCASTER LABORATORIES

Sample Number: AR1631724A FWAR163FW CCAL 1714799999 10736 SW-846 8082
Injected On: 5/28/2017 10:34:31 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137010B.027.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.005		13618	9218
2.053		43075	28719
2.156		6268	5868
2.238		19629	29395
2.271		2340	1580
2.299		25865	16841
2.363		4462	3308
2.409		2743	3301
2.477		8085	11950
2.546		84712	52184
2.569		4801	3011
2.592		3312	1647
2.615	TCX	29566340	17144610
2.658		190798	133166
2.702		6381	5552
2.785		486874	324281
2.832		269981	125840
2.846		414989	204694
2.898		2404217	1462197
2.948		72420	40200
2.986		3261	1596
3.009		315190	194117
3.104		2056721	997730
3.116		797705	289219
3.156		330938	202610
3.176		190700	107158
3.202		265534	147131
3.226		2990606	1965209
3.262		134772	80514
3.29		79618	36603
3.308		772625	402672
3.323		505900	250579
3.35		6023	3141
3.373		1705850	768240
3.383		3457038	1487463
3.403		127974	51049
3.416		2912903	1869189
3.49		3469021	2135275
3.525		2372011	1414131
3.548		2567956	1406314
3.566		816322	402953
3.651		2892938	1889645
3.674		1037237	540805
3.695		1029335	597571
3.723		723512	371815
3.741		2436301	1425876
3.782		853658	630799
3.829		173846	146178
3.852		652065	383374
3.874		3401279	2122935
3.898		707403	406565
3.917		120197	56674
3.936		367887	226423
3.972		2562995	1825964

RT B	Compound B	Height B	Area B
4.006		141404	83838
4.021		239434	149446
4.068		11569	6666
4.083		20699	12259
4.107		297137	355576
4.149		25264	13448
4.173		761528	535042
4.217		525669	331662
4.234		649874	315679
4.247		1679275	911387
4.273		1045202	1076069
4.325		5777549	4419632
4.37		102809	101547
4.395		586316	408109
4.42		1289191	921409
4.462		6829293	5133384
4.565		5415078	5282518
4.618		758830	620651
4.657		1530387	1350231
4.693		7187021	5843472
4.725		3266212	2274335
4.763		2379790	1799856
4.831		10792	13439
4.863		774483	827453
4.915		4196635	3285065
4.938		568353	371992
4.988		2193427	1984591
5.024		1127139	897472
5.055		883874	756393
5.086		348056	208250
5.109		9206074	7699764
5.15		205298	147737
5.182		621984	527788
5.301		103267	68068
5.324		1892782	1564404
5.369		6384316	6880012
5.525		466997	406470
5.569		150329	103678
5.593		527280	401442
5.641		1190046	1024750
5.748		2140863	1908008
5.78		121595	88846
5.947		737751	672133
6.067		3307	2104
6.106	DCB	18796150	16483990
6.275		6661	20527
6.555		12409	11121
7.183		1330	795
7.468		2333	3339
7.597		2439	4128
7.843		3020	6034
8.211		20067	36372
8.636		1874	1725

AR1631724A FWAR163FW CCAL 1714799999 10736 SW-846 80

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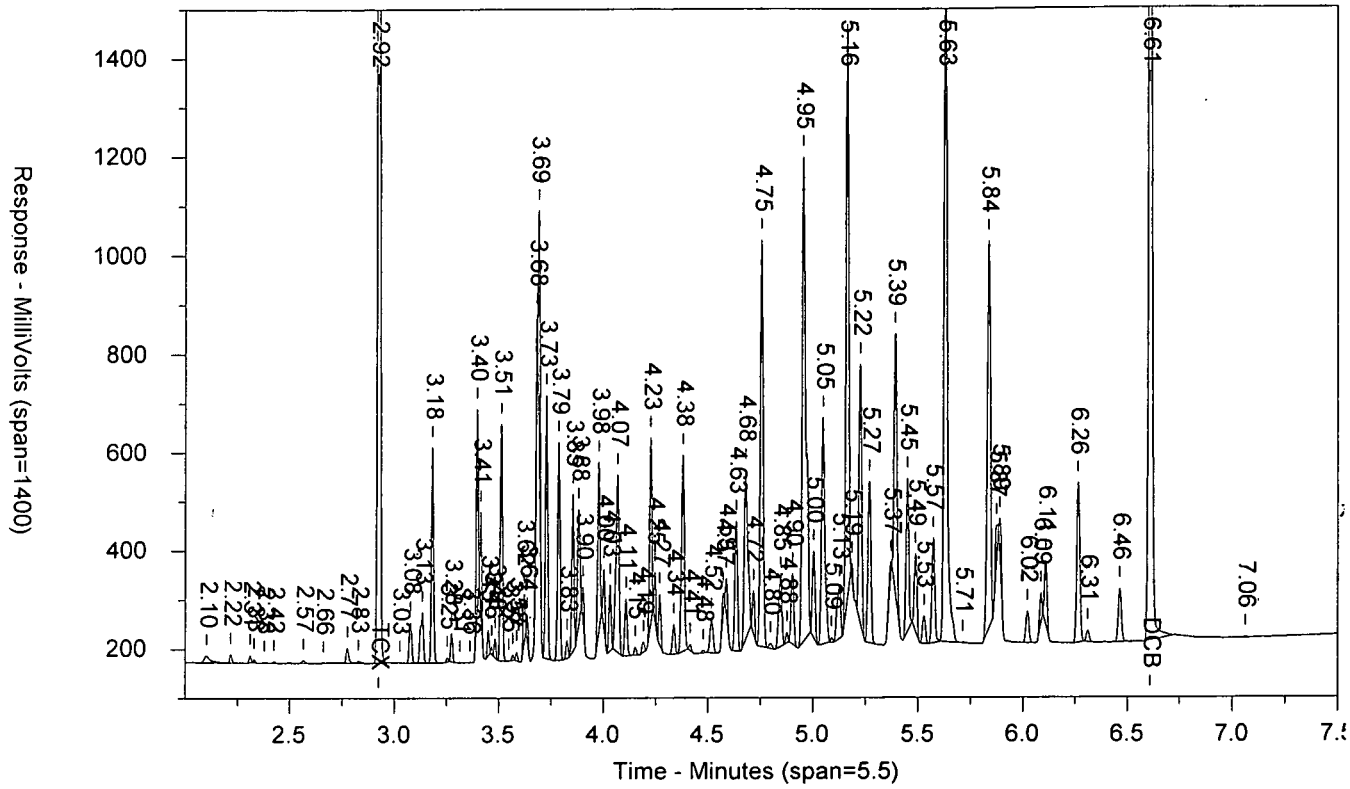

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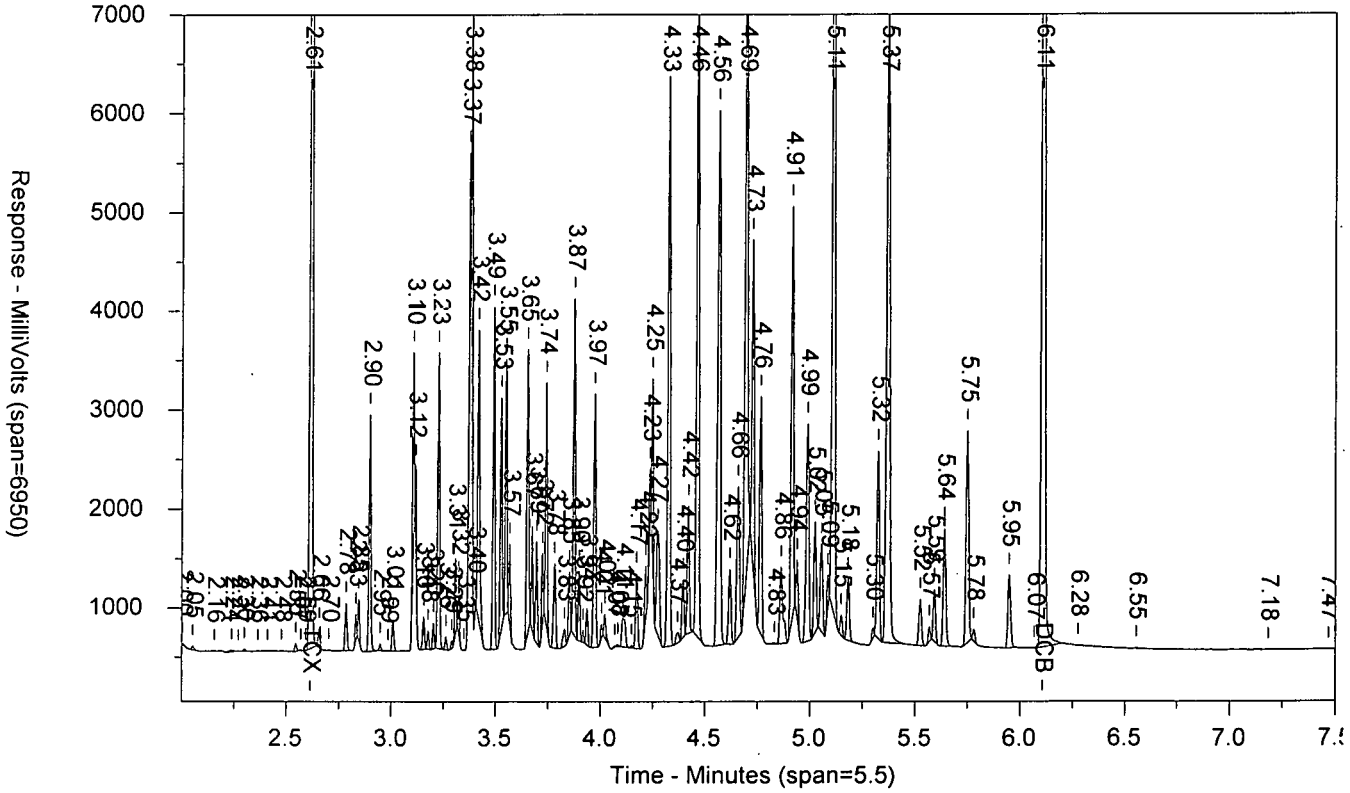

LANCASTER LABORATORIES

Sample Number: AR1631724A FWAR163FW CCAL 1714799999 10736 SW-846 8082
Injected On: 5/28/2017 10:34:31 PM Sample Weight: 1
Instrument ID: CP20-17342 Dilution Factor: 1
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4818106	42.398	TCX	2.615	29566340	42.769	TCX
6.609	2597290	37.742	DCB	6.106	18796150	38.582	DCB

Files:
Area File: 20pcbs17137010.027.RAW
Area File: 20pcbs17137010B.027.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/28/2017 10:43:15 PM
File Reported On: 5/30/2017 at 9:21:12 AM

AR1631724A FWAR163FW CCAL 1714799999 10736 SW-846 80

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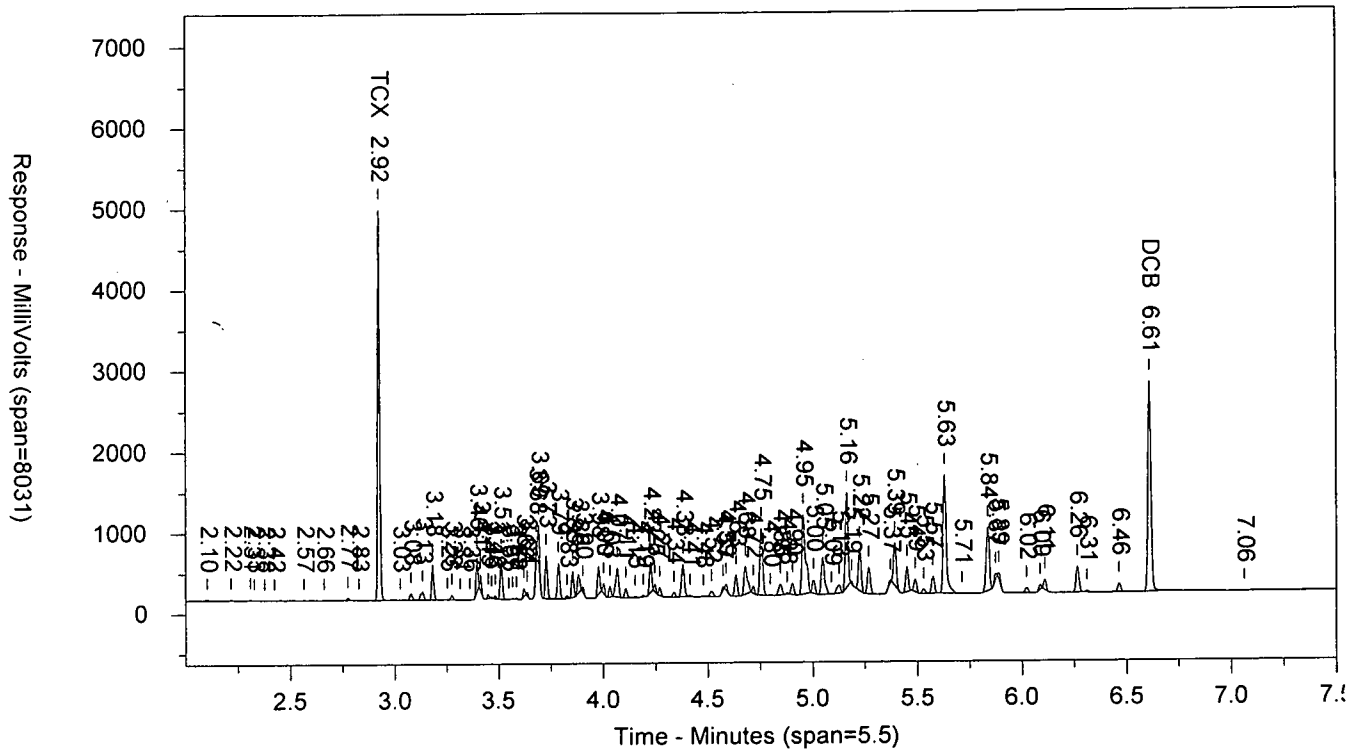

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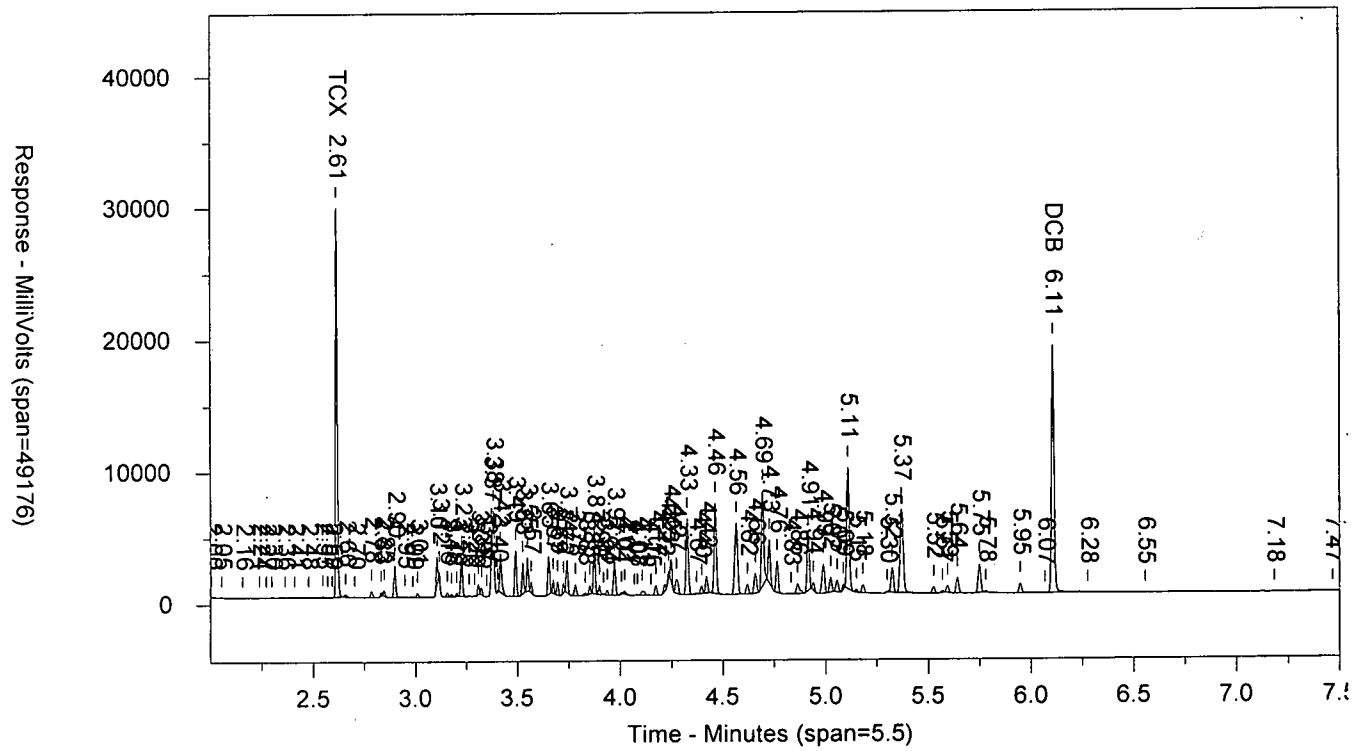

LANCASTER LABORATORIES

Sample Number: IBLKX1724A ALPIBLKAL PIBLK1714799999 10736 SW-846 8082
Injected On: 5/28/2017 10:46:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137010.028.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.012		634	361
2.099		11069	27856
2.217		8796	6921
2.31		16569	10201
2.328		2518	1307
2.378		1792	1838
2.423		3027	2956
2.55		2104	1503
2.692		591	630
2.719		1232	1916
2.775		20054	16291
2.83		3454	3175
2.924	TCX	2433926	1626362
3.124		34183	21534
3.192		3088	2755
3.254		5170	3498
3.362		1051	758
3.492		1099	682
3.51		938	467
3.529		1651	1229
3.567		6481	4092
3.665		12763	9421
3.748		1488	941
3.85		2147	2237
3.893		1017	835
4.19		4368	7318
4.26		2491	3484
4.297		4355	4775
4.382		997	1131
4.51		2207	3166
4.571		1691	1669
4.878		10504	10416
5.064		926	810
5.118		17908	17575
5.205		1905	2225
5.432		4837	5833
5.529		16390	16795
5.651		28229	29415
5.836		1845	2338
6.022		27913	29377
6.087		31982	27394
6.107		5293	3148
6.194		1703	4180
6.39		1045	757
6.465		18062	17251
6.61	DCB	1388090	1433074
7.027		721	1238
7.065		1394	1187
7.478		781	711
8.406		636	1599
8.685		4307	6330

LANCASTER LABORATORIES

Sample Number: IBLKX1724A ALPIBLKAL PIBLK1714799999 10736 SW-846 8082
Injected On: 5/28/2017 10:46:00 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137010B.028.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3908	4395
2.053		20698	15495
2.114		2838	4154
2.155		14415	10712
2.237		16117	23074
2.27		4701	3853
2.34		1611	1250
2.36		3965	3336
2.411		8863	8793
2.476		4312	3241
2.525		5347	4516
2.545		59083	34747
2.592		5413	2518
2.614	TCX	14689660	8606219
2.697		3683	6066
2.778		8052	5042
2.801		4572	4107
2.831		198391	126823
2.883		4998	4830
2.907		2838	1257
2.948		37113	21737
2.987		5586	5757
3.121		7931	20422
3.18		15138	22554
3.267		5047	3118
3.29		46789	24292
3.324		102315	62374
3.353		2951	1671
3.375		3824	3885
3.407		21182	14428
3.447		9851	11758
3.477		3120	4564
3.543		13221	13541
3.596		3795	6251
3.709		9961	12557
3.724		4448	2622
3.827		4716	6247
3.88		4409	3731
3.935		18674	12103
3.973		3158	5388
4.07		22191	20522
4.107		4255	2576
4.13		3325	2003
4.149		13922	14552
4.201		8040	10257
4.234		4901	5501
4.327		4994	4017
4.438		75121	79611
4.564		9393	33184
4.619		7089	4955
4.666		125467	99297
4.741		6389	14985
4.84		33171	41667
4.916		5046	3814

RT B	Compound B	Height B	Area B
4.982		10405	10763
5.06		101115	101414
5.158		2239	6922
5.183		193471	167331
5.343		18096	35719
5.436		1162	24211
5.475		3422	5118
5.525		203776	178251
5.594		251783	225454
5.643		82696	71552
5.776		1987	1592
5.948		120466	100727
6.106	DCB	9907299	8632247
6.556		7326	7324
7.191		2610	2212
7.424		1588	1369
7.837		2580	4458
8.211		21860	40852

IBLKX1724A ALPIBLKAL PIBLK1714799999 10736 SW-846 8082

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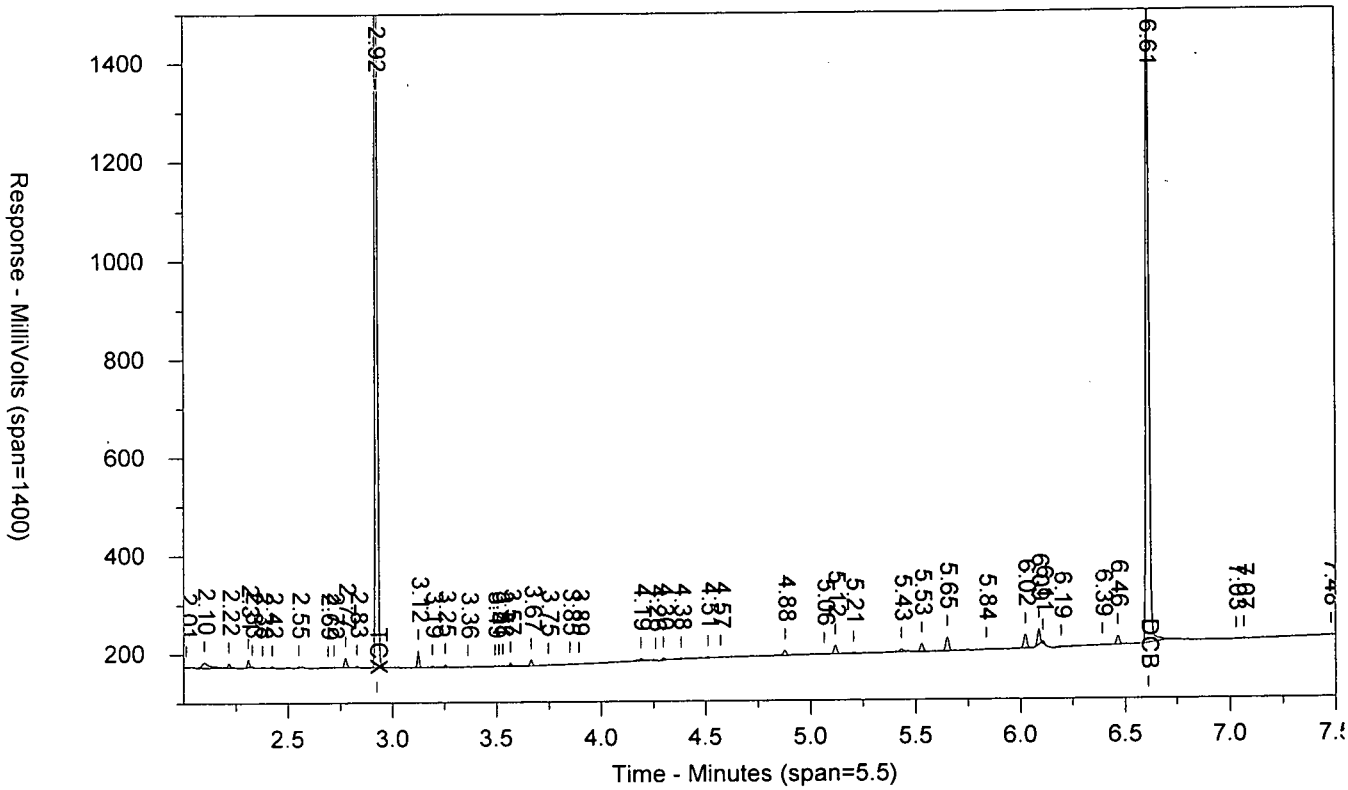

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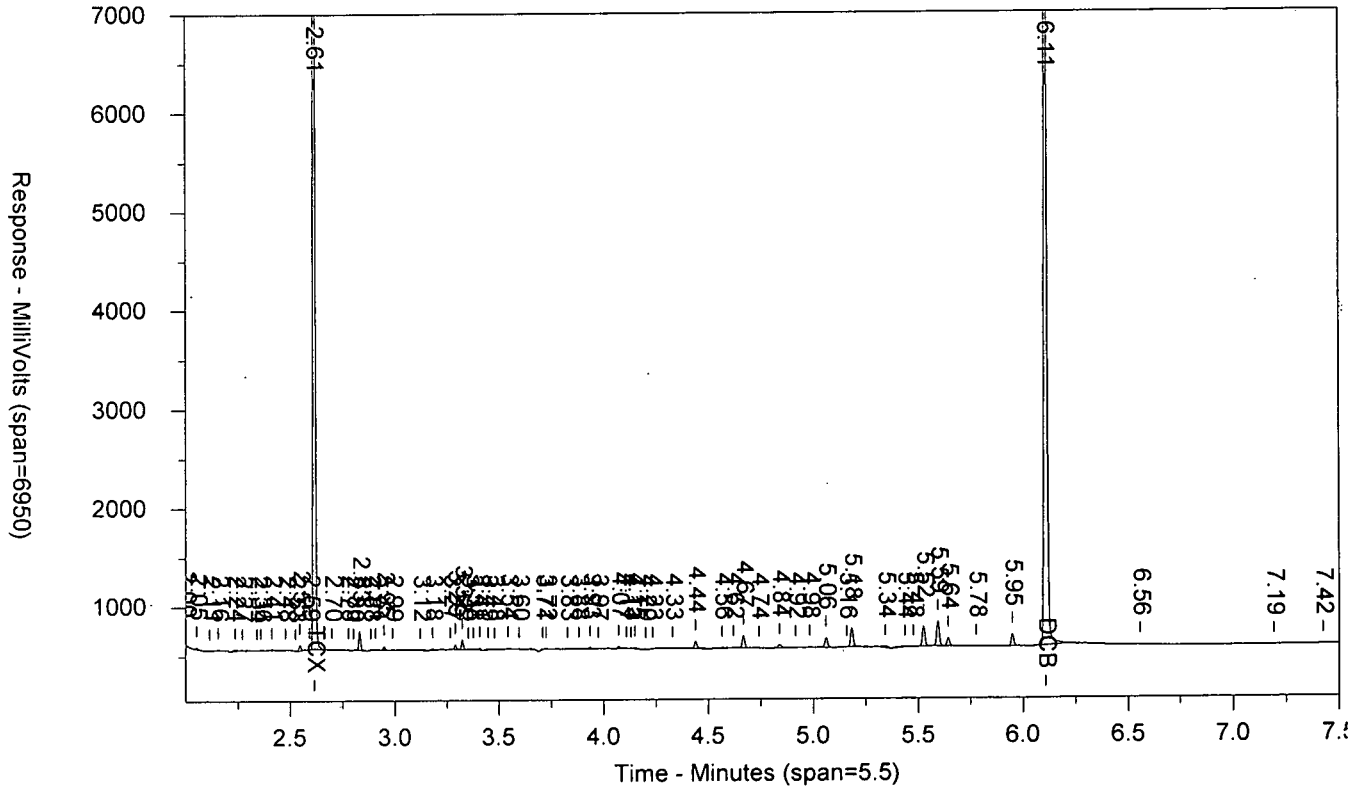

LANCASTER LABORATORIES

Sample Number: IBLKX1724A ALPIBLKAL PIBLK1714799999 10736 SW-846 8082
Injected On: 5/28/2017 10:46:00 PM Sample Weight: 1000
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	2433926	.214	TCX	2.614	14689660	.212	TCX
6.61	1388090	.202	DCB	6.106	9907299	.203	DCB

Files:
Area File: 20pcbs17137010.028.RAW
Area File: 20pcbs17137010B.028.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/28/2017 10:54:44 PM
File Reported On: 5/30/2017 at 9:21:27 AM

IBLKX1724A ALPIBLKAL PIBLK1714799999 10736 SW-846 8082

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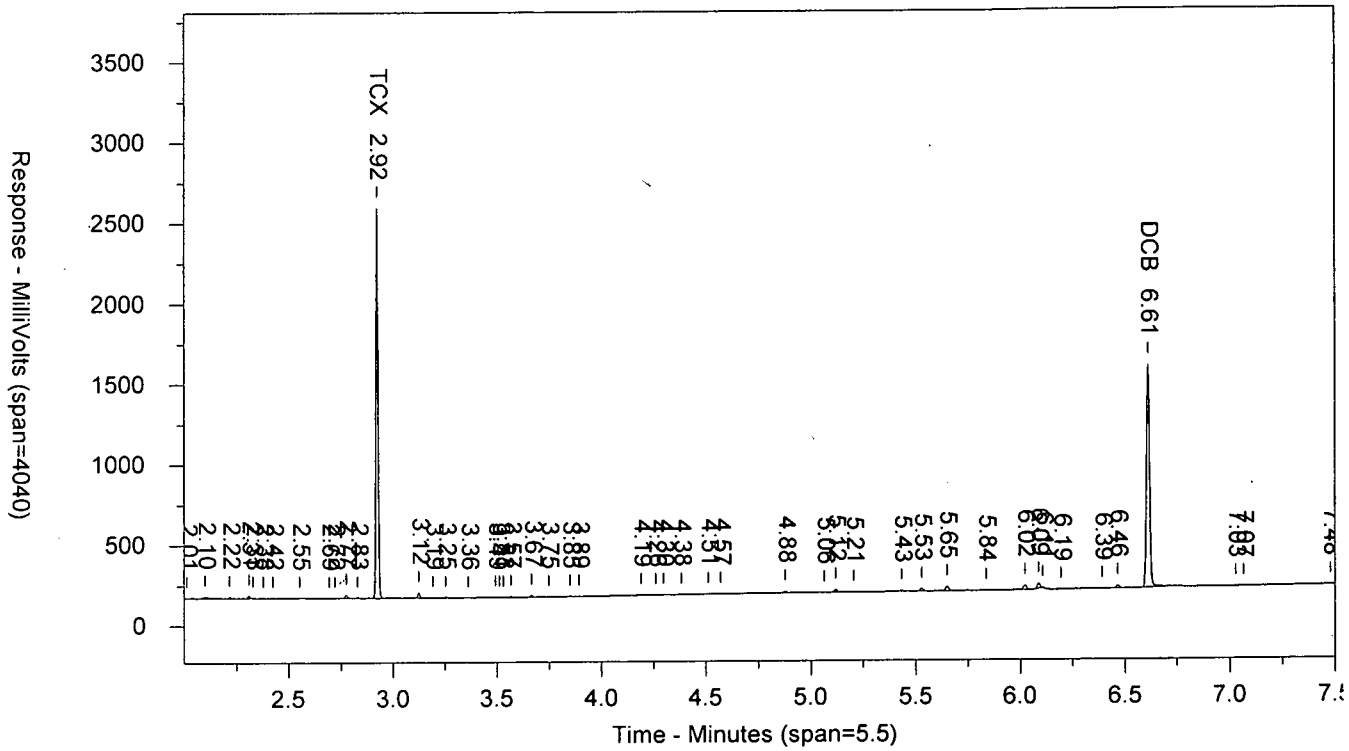

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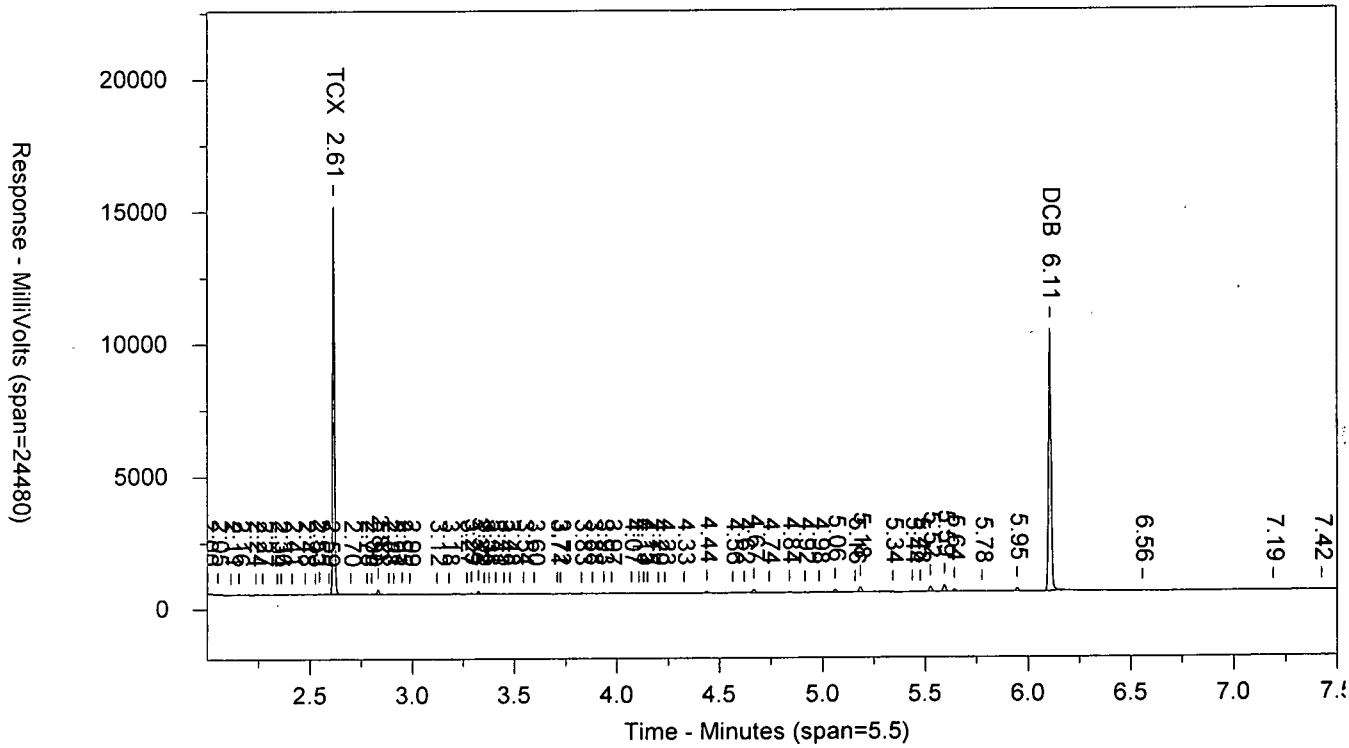


Raw QC Data

Polychlorinated Biphenyls (PCBs)

eurofins | Lancaster Laboratories Environmental

Data Summary

Sample Name: BLANKA 5/25/17 ACF PBLK31144 BLK Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:00:20
Instrument	17342A
Result file	20PCBS17137009.024.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 121% (61 - 152) Conc: 35.39023
%SSR(DCB) 109% (48 - 164) Conc: 31.81134

Analysis Report (B)

Injected on	May 26, 2017 19:00:20
Instrument	17342B
Result file	20PCBS17137009B.024.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 114% (61 - 152) Conc: 33.47045
%SSR(DCB) 105% (48 - 164) Conc: 30.77816

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	4021763	35.39023	Tetrachloro-m-xylene	2.59	2.61	2.65	23138420	33.47045
Decachlorobiphenyl	6.58	6.61	6.64	2189141	31.81134	Decachlorobiphenyl	6.08	6.11	6.14	14994460	30.77816

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	A	35.39023				5.58	
☐ Decachlorobiphenyl	A	31.81134				3.30	

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☐ PCB-1016			<51	<9.9			4	
☐ PCB-1221			<51	<15.3			3	
☐ PCB-1232			<51	<12.3			4	
☐ PCB-1242			<51	<12.3			4	
☐ PCB-1248			<51	<9.9			4	
☐ PCB-1254			<51	<13.2			4	
☐ PCB-1260			<51	<11.7			4	
☐ PCB-1262			<51	<9.9			4	
☐ PCB-1268			<51	<9.9			4	
☐ Total PCBs			<51	<9.9				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Reviewed by: 2855 Date: MAY 28 2017 28may17

Verified by: Valerie L. Tomayko, Principal Specialist Date: MAY 30 2017

MAY 28 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: BLANKA 5/25/17 ACF PBLK31144Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:00:20
Instrument : CP20--17342A
Result file : 20PCBS17137009.024.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 121% (61-152) Conc.: 35.39023
%SSR(DCB) : 109% (48-164) Conc.: 31.81134

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**4**	**115.26**	
3.16	3.20	3.20	10028.67	4.887568			1
3.71	3.71	3.75	1640.422	0.627685			4
3.76	3.79	3.80	2416.258	1.130359			5
3.96	3.98	4.00	948.3566	0.553308			6
Height Summation:			**15033.7066**				
Amount Avg CF:			**1.79973**	Linear:			
Aroclor-1221					**3**	**48.36**	
3.06	3.06	3.10	2413.955	2.455905			1
3.11	3.12	3.15	5425.998	6.385442			2
3.16	3.20	3.20	10028.67	3.653229			3
Height Summation:			**17868.623**				
Amount Avg CF:			**4.164859**	Linear:			
Aroclor-1232					**4**	**54.93**	
3.16	3.20	3.20	10028.67	4.072676			1
3.71	3.71	3.75	1640.422	1.390899			4
3.77	3.79	3.81	2416.258	2.613213			5
3.96	3.98	4.00	948.3566	1.326826			6
Height Summation:			**15033.7066**				
Amount Avg CF:			**2.350904**	Linear:			
Aroclor-1242					**4**	**111.17**	
3.16	3.20	3.20	10028.67	5.70524			1
3.71	3.71	3.75	1640.422	0.767212			4
3.77	3.79	3.81	2416.258	1.443343			5
3.96	3.98	4.00	948.3566	0.69297			6
Height Summation:			**15033.7066**				
Amount Avg CF:			**2.152191**	Linear:			
Aroclor-1248					**2**	**97.62**	
3.76	3.79	3.80	2416.258	2.081949			1
3.96	3.98	4.00	948.3566	0.381533			3
Height Summation:			**3364.6146**				
Amount Avg CF:			**1.231741**	Linear:			
Aroclor-1254					**2**	**20.90**	
4.55	4.57	4.59	1220.815	0.420919			2
5.14	5.17	5.18	1242.713	0.312515			6
Height Summation:			**2463.528**				
Amount Avg CF:			**0.366717**	Linear:			
Aroclor-1260					**2**	**1.23**	
5.20	5.23	5.24	1237.103	0.456257			3
5.82	5.84	5.86	1955.838	0.464245			6
Height Summation:			**3192.941**				
Amount Avg CF:			**0.460251**	Linear:			
Aroclor-1262					**3**	**20.81**	
5.21	5.23	5.24	1237.103	0.247808			1
5.81	5.84	5.85	1955.838	0.363067			4
5.87	5.88	5.91	980.9346	0.36758			5
Height Summation:			**4173.8756**				
Amount Avg CF:			**0.326151**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:00:20
Instrument : CP20--17342B
Result file : 20PCBS17137009B.024.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 114% (61-152) Conc.: 33.47045
%SSR(DCB) : 105% (48-164) Conc.: 30.77816

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**6**	**161.54**	
2.88	2.89	2.92	4822.587	0.42649			1
3.21	3.24	3.25	109213.3	7.772034			2
3.40	3.41	3.44	7638.442	0.540967			3
+ 3.40	3.43	3.44	6911.027	0.489451			3
3.47	3.48	3.51	4125.282	0.247049			4
+ 3.63	3.65	3.67	6075.534	0.433052			5
3.63	3.67	3.67	10880.54	0.775543			5
3.72	3.74	3.76	13643.89	1.134919			6
Height Summation:			**150324.041**				
Amount Avg CF:			**1.816167**	Linear:			
Aroclor-1221					**3**	**110.68**	
2.77	2.80	2.81	11657.26	1.953443			1
2.83	2.83	2.87	24516.55	6.664541			2
2.88	2.89	2.92	4822.587	0.316021			3
Height Summation:			**40996.397**				
Amount Avg CF:			**2.978002**	Linear:			
Aroclor-1232					**6**	**124.76**	
2.88	2.89	2.92	4822.587	0.349092			1
3.21	3.24	3.25	109213.3	16.357414			2
3.40	3.41	3.44	7638.442	1.278752			3
+ 3.40	3.43	3.44	6911.027	1.156976			3
3.47	3.48	3.51	4125.282	0.562126			4
+ 3.47	3.51	3.51	3378.762	0.460402			4
+ 3.66	3.67	3.70	10880.54	5.42893			5
3.66	3.70	3.70	23812.84	11.881602			5
3.73	3.74	3.77	13643.89	2.596625			6
Height Summation:			**163256.341**				
Amount Avg CF:			**5.504269**	Linear:			
Aroclor-1242					**6**	**159.60**	
2.88	2.89	2.92	4822.587	0.496015			1
3.21	3.24	3.25	109213.3	9.405615			2
3.40	3.41	3.44	7638.442	0.668951			3
+ 3.40	3.43	3.44	6911.027	0.605247			3
3.47	3.48	3.51	4125.282	0.316105			4
+ 3.47	3.51	3.51	3378.762	0.258902			4
+ 3.64	3.65	3.68	6075.534	0.56543			5
3.64	3.67	3.68	10880.54	1.012616			5
3.73	3.74	3.77	13643.89	1.417613			6
Height Summation:			**150324.041**				
Amount Avg CF:			**2.219486**	Linear:			
Aroclor-1248					**6**	**76.03**	
3.40	3.41	3.44	7638.442	1.37162			1
+ 3.40	3.43	3.44	6911.027	1.240999			1
3.51	3.51	3.55	3378.762	0.215117			2
+ 3.63	3.65	3.67	6075.534	0.309607			3
3.63	3.67	3.67	10880.54	0.554469			3
3.72	3.74	3.76	13643.89	0.962917			4
3.86	3.87	3.90	4234.404	0.157776			5
4.22	4.24	4.26	5176.313	0.436226			6
Height Summation:			**44952.351**				
Amount Avg CF:			**0.616354**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: BLANKA 5/25/17 ACF PBLK31144Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:00:20
Instrument : CP20--17342A
Result file : 20PCBS17137009.024.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**5**	**160.92**	
5.81	5.84	5.85	1955.838	0.163273			1
5.87	5.88	5.91	980.9346	0.093853			2
6.00	6.02	6.04	28441.91	2.918349			3
6.07	6.09	6.11	27942.19	12.505745			4
6.45	6.47	6.49	23043.34	0.731471			6

Height Summation: **82364.2126**
Amount Avg CF: **3.282538** Linear:

Analysis Report (B)

Injected on : May 26, 2017 19:00:20
Instrument : CP20--17342B
Result file : 20PCBS17137009B.024.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					**5**	**58.32**	
4.22	4.24	4.26	5176.313	0.139546			2
4.31	4.33	4.35	10183.97	0.59018			3
4.38	4.39	4.42	4633.022	0.185797			4
4.44	4.46	4.48	5542.039	0.385941			5
4.60	4.62	4.64	4457.327	0.25479			6

Height Summation: **29992.671**
Amount Avg CF: **0.311251** Linear:

Aroclor-1260					**6**	**25.69**	
4.31	4.33	4.35	10183.97	0.360702			1
4.44	4.46	4.48	5542.039	0.166453			2
+ 4.55	4.57	4.59	4158.454	0.155235			3
4.55	4.58	4.59	9015.214	0.336538			3
4.90	4.92	4.94	8014.502	0.389216			4
5.09	5.11	5.13	13390.71	0.286556			5
5.35	5.37	5.39	11327.31	0.362355			6

Height Summation: **57473.745**
Amount Avg CF: **0.31697** Linear:

Aroclor-1262					**6**	**35.05**	
4.71	4.73	4.75	2879.794	0.088848			1
4.90	4.92	4.94	8014.502	0.248572			2
5.09	5.11	5.13	13390.71	0.218347			3
5.31	5.32	5.35	3673.456	0.144553			4
5.35	5.37	5.39	11327.31	0.276925			5
5.73	5.75	5.77	4785.471	0.216177			6

Height Summation: **44071.243**
Amount Avg CF: **0.198904** Linear:

Aroclor-1268					**6**	**182.75**	
5.31	5.32	5.35	3673.456	0.044385			1
5.35	5.37	5.39	11327.31	0.13518			2
5.51	5.53	5.55	206504.3	2.868551			3
5.57	5.59	5.61	237513.2	13.646068			4
5.73	5.75	5.77	4785.471	0.169663			5
5.93	5.95	5.97	154968.4	0.722913			6

Height Summation: **618772.137**
Amount Avg CF: **2.931127** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			51	9.9		0.91	4	40	
Aroclor-1221			51	15.3		33.23	3	5	
Aroclor-1232			51	12.3		** 80.29	4	10	
Aroclor-1242			51	12.3		3.08	4	30	
Aroclor-1248			51	9.9		** 66.60	4	40	
Aroclor-1254			51	13.2		16.36	4	40	
Aroclor-1260			51	11.7		36.87	4	40	
Aroclor-1262			51	9.9		** 48.47	4	40	
Aroclor-1268			51	9.9		11.31	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: BLANKA 5/25/17 ACF ABPBLK31144 BLK 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:00:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.024.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.038		2173	1580
2.102		12563	15801
2.13		128536	83784
2.154		2468	2011
2.2		5178	3903
2.218		12905	10836
2.31		5145	3165
2.329		6218	3741
2.388		26693	20488
2.423		1052	621
2.476		1142	1654
2.542		873	504
2.564		1775	1394
2.618		1600	969
2.654		2387	1781
2.699		1357	1000
2.732		4406	4556
2.828		3737	2945
2.875		1447	1221
2.924	TCX	4021763	2522639
2.981		1345	1064
3.042		1301	796
3.064		2414	2423
3.106		2833	1633
3.124		5426	3095
3.196		10029	7598
3.234		1124	867
3.255		4222	2809
3.358		653	737
3.465		1106	647
3.486		3773	2238
3.587		13673	9417
3.656		9325	7327
3.71		1640	1248
3.793		2416	1778
3.898		859	544
3.984		948	726
4.02		2114	1707
4.098		586	1172
4.192		3310	3585
4.297		4624	4114
4.388		981	1475
4.574		1221	1008
4.878		4635	3802
4.921		1190	1452
4.957		1145	1479
5.003		2082	2025
5.12		9205	9840
5.166		1243	947
5.229		1237	1030
5.432		68839	93803
5.531		8540	8117
5.652		19534	21007
5.837		1956	1948

RT A	Compound A	Height A	Area A
5.876		981	595
5.929		1478	1648
6.023		28442	29040
6.088		27942	24884
6.232		2178	6608
6.466		23043	22829
6.612	DCB	2189141	2275896
7.36		905	1007
8.681		3932	5417

LANCASTER LABORATORIES

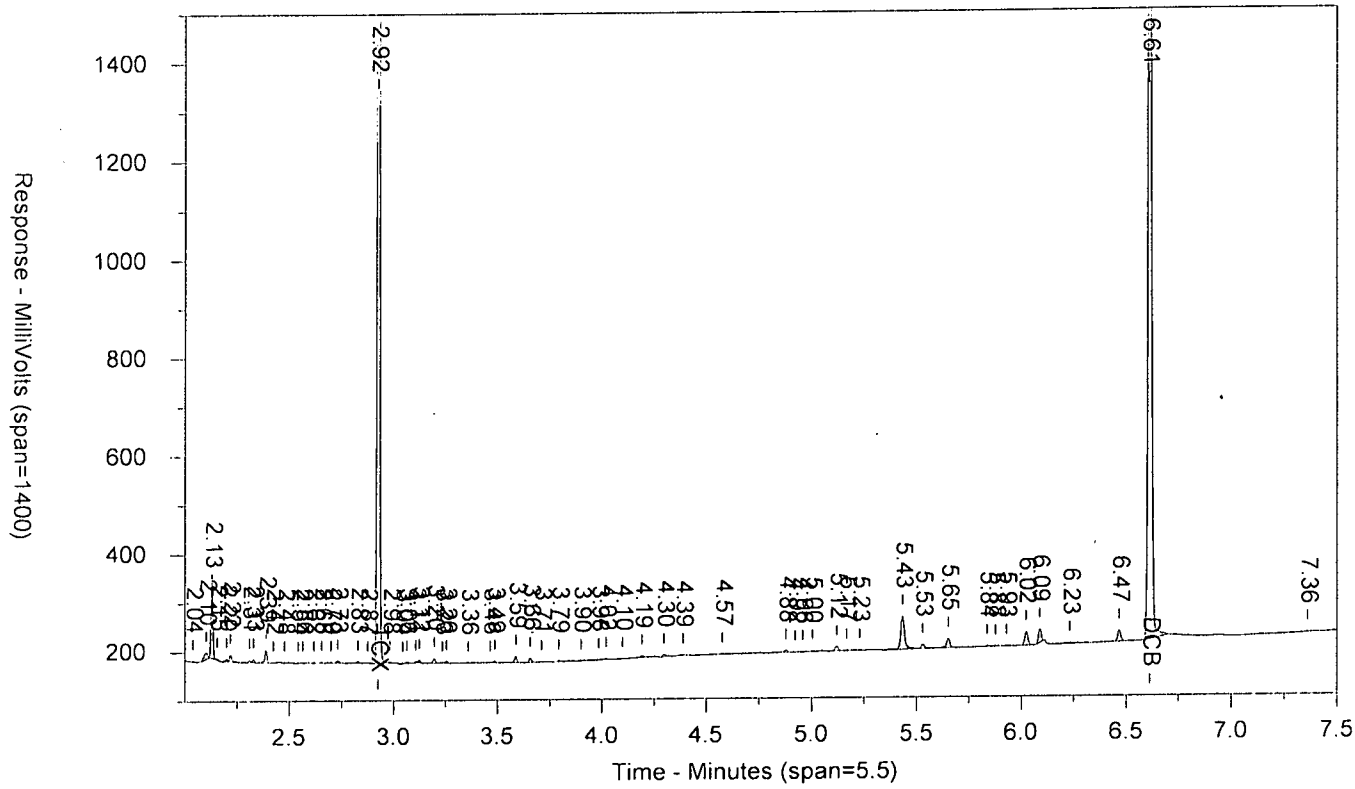
Sample Number: BLANKA 5/25/17 ACF ABPBLK31144 BLK 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:00:20 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.024.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.003		11705	8681
2.034		7680	3866
2.052		39831	26366
2.113		196219	117613
2.14		5000	2595
2.156		7112	4092
2.183		13746	8285
2.235		16293	18966
2.265		6726	4623
2.295		6391	5098
2.314		8226	6380
2.335		5192	2589
2.351		7640	3605
2.37		6745	3525
2.396		9088	7527
2.433		29216	18089
2.478		7726	8070
2.498		3476	1776
2.536		4894	4261
2.569		6812	5319
2.589		19270	11784
2.614	TCX	23138420	13318590
2.692		4857	2849
2.734		24112	29950
2.805		11657	17454
2.834		24517	17468
2.867		2636	1487
2.894		4823	4466
2.92		10249	6219
2.948		26665	16912
2.991		8954	5280
3.012		46734	25550
3.079		1671	724
3.107		2669	919
3.145		12696	7842
3.181		30355	26514
3.243		109213	62435
3.319		83250	52830
3.361		17397	19281
3.406		7638	5814
3.431		6911	9812
3.481		4125	3849
3.513		3379	1467
3.553		3383	2474
3.591		12321	7442
3.648		6076	6615
3.673		10881	8124
3.697		23813	16642
3.744		13644	20369
3.827		6651	4828
3.869		4234	5831
3.937		22281	16158
3.958		3021	1785
3.985		2940	3418

RT B	Compound B	Height B	Area B
4.005		5272	7482
4.072		27848	25376
4.114		3707	2993
4.149		6957	12939
4.206		6604	11851
4.235		5176	3741
4.276		3730	3620
4.333		10184	13203
4.394		4633	8891
4.439		33682	27511
4.464		5542	3466
4.517		5637	6753
4.567		4158	3142
4.585		9015	9397
4.616		4457	3549
4.642		4946	3130
4.668		50023	35635
4.696		12541	14011
4.728		2880	4087
4.765		4705	4266
4.84		404877	415424
4.916		8015	6095
4.94		3455	2133
4.984		6845	7154
5.023		2816	1679
5.061		53291	46201
5.11		13391	11177
5.184		130429	115131
5.298		1827	1322
5.324		3673	2725
5.371		11327	11606
5.472		8730	7828
5.526		206504	176320
5.594		237513	206404
5.643		58313	47410
5.75		4785	4709
5.796		2230	3011
5.826		1863	1652
5.949		154968	130761
5.981		4496	3360
6.108	DCB	14994460	13583200
6.276		2834	1650
6.706		2306	1857
7.131		1593	1277
7.344		14388	35399
7.518		4502	12456
7.612		2793	4942
7.967		1748	1222
8.214		19129	34909
8.372		2395	9849
8.533		1681	1067

BLANKA 5/25/17 ACF ABPBLK31144 BLK 171440031A 10225 SW-846 80

—— \\USLAN-CHROMPERFECT\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\20pcbs17137009.024.RAW



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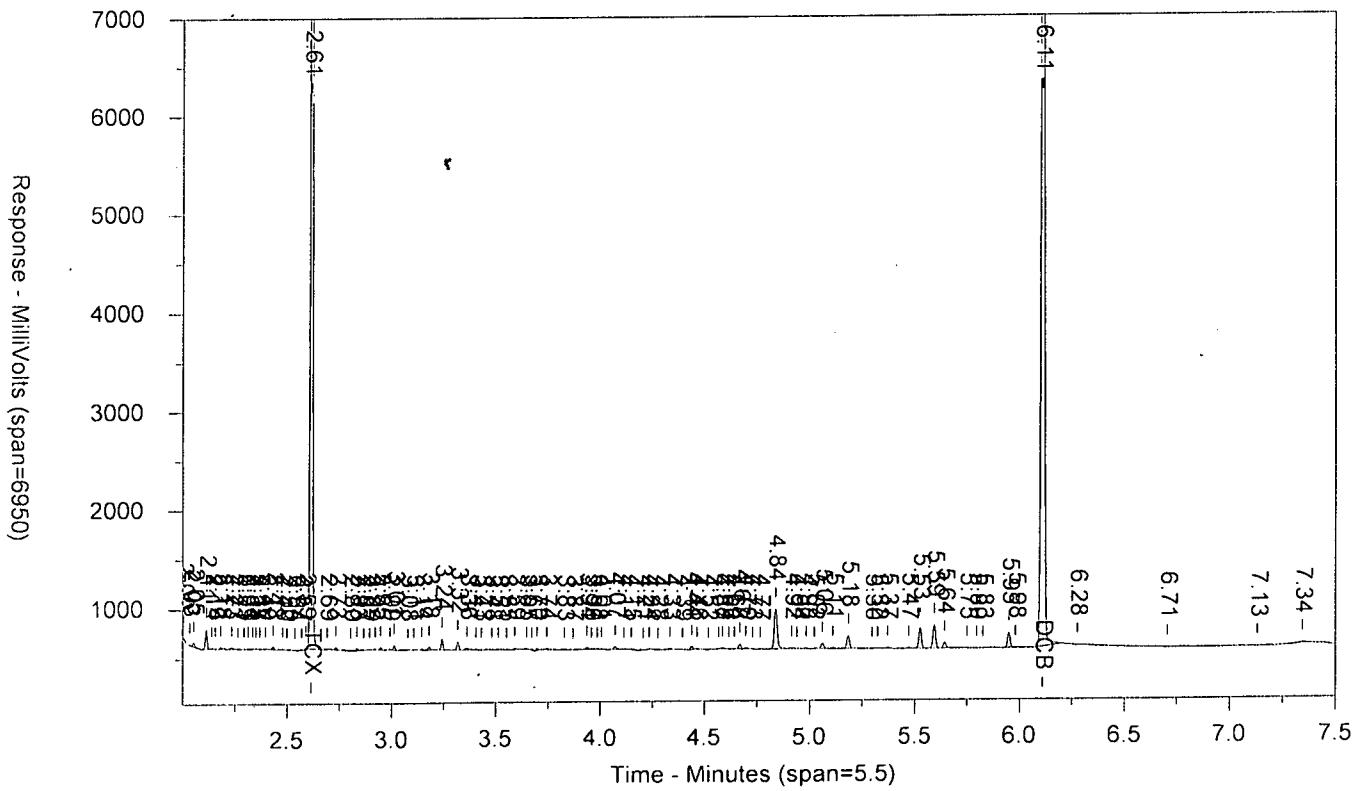

LANCASTER LABORATORIES

Sample Number: BLANKA 5/25/17 ACF ABPBLK31144 BLK 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:00:20 PM Sample Weight: 10
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	4021763	35.39	TCX	2.614	23138420	33.47	TCX
6.612	2189141	31.811	DCB	6.108	14994460	30.778	DCB

Files:
Area File: 20pcbs17137009.024.RAW
Area File: 20pcbs17137009B.024.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 7:09:05 PM
File Reported On: 5/26/2017 at 7:09:14 PM

BLANKA 5/25/17 ACF ABPBLK31144 BLK 171440031A 10225 SW-846 80

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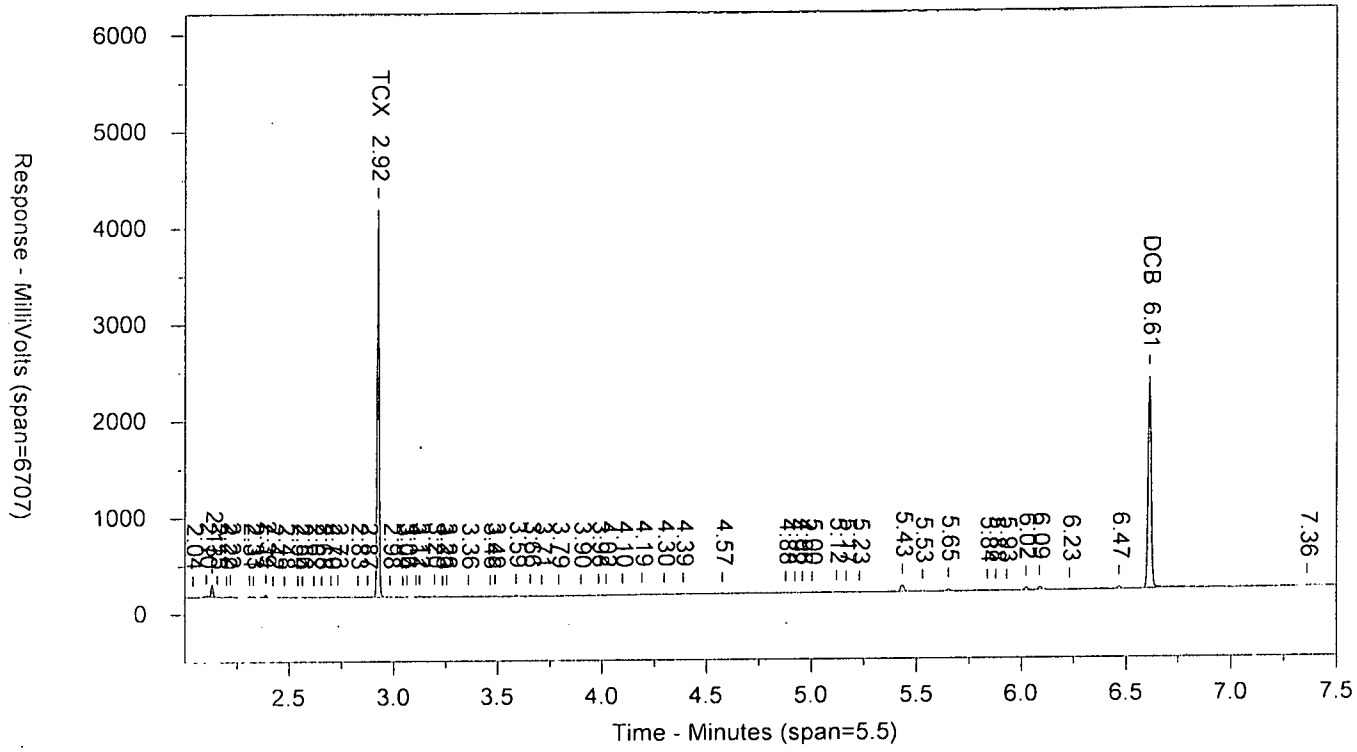

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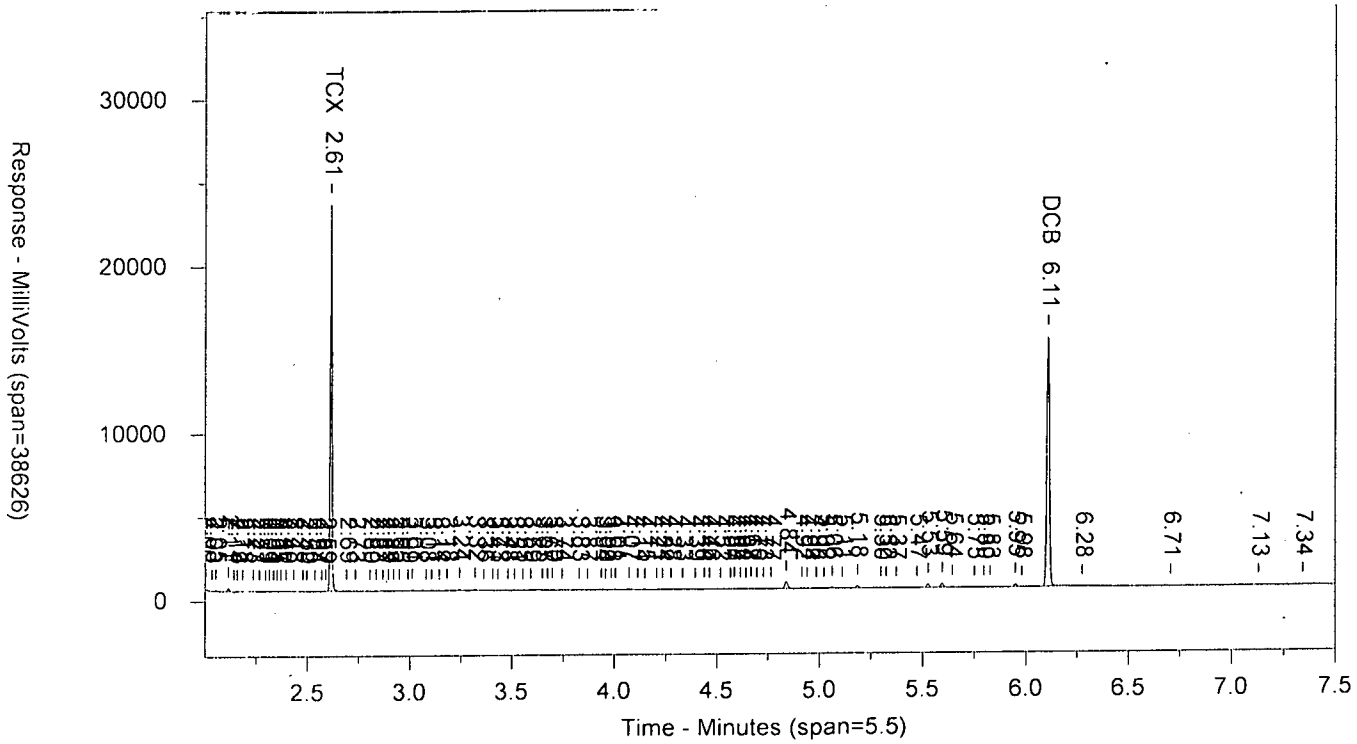

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Data Summary

Sample Name: 9004842 MSACF DF50 A5502 MS Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:46:05
Instrument	17342A
Result file	20PCBS17137009.028.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 122% (61 - 152) Conc: 34.99118
%SSR(DCB) 136% (48 - 164) Conc: 39.12032

Analysis Report (B)

Injected on	May 26, 2017 19:46:05
Instrument	17342B
Result file	20PCBS17137009B.028.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 112% (61 - 152) Conc: 32.30481
%SSR(DCB) 135% (48 - 164) Conc: 38.80856

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	80801	34.99118
Decachlorobiphenyl	6.58	6.62	6.64	54704	39.12032

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	453798	32.30481
Decachlorobiphenyl	6.08	6.11	6.14	384184	38.80856

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	A	34.99118				7.98	
☐ Decachlorobiphenyl	A	39.12032				0.80	

Multiple Component Data

Aroclor-1260 (%RSD 17.95)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.76	4.77	577556.8	6782.07021		1
5.03	5.05	5.07	504003.1	10711.191753		2
5.20	5.23	5.24	374888	6804.276785		3
5.37	5.39	5.41	483482.3	7690.860502		4
5.61	5.63	5.65	1237919	8123.367802		5
5.82	5.84	5.86	688033.4	8037.12233		6

Height summation: **3865882.6**
Concentration CF: **8024.814897** L:

Aroclor-1260 (%RSD 9.62)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	4255063	7416.756124		1
4.44	4.46	4.48	5667304	8376.711376		2
4.55	4.57	4.59	3827240	7031.053055		3
4.90	4.92	4.94	2911003	6957.182141		4
5.09	5.11	5.13	8144938	8577.676496		5
5.35	5.37	5.39	5371852	8456.835404		6

Height summation: **30177400**
Concentration CF: **7802.702433** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☐ PCB-1016			<2509.8426	<487.2047			4	
☐ PCB-1221			<2509.8426	<752.9528			3	
☐ PCB-1232			<2509.8426	<605.315			4	
☐ PCB-1242			<2509.8426	<605.315			4	
☐ PCB-1248			<2509.8426	<487.2047			4	
☐ PCB-1254			<2509.8426	<649.6063			4	
☐ PCB-1260	A	8024.814897	2509.8426	575.7874		2.81	4	
☐ PCB-1262			<2509.8426	<487.2047			4	
☐ PCB-1268			<2509.8426	<487.2047			4	
☐ Total PCBs	A	8024.814897	2509.8426	487.2047				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: _____ Verified by: _____
Date: _____ Date: MAY 30 2017

Jessica L. Miller
Senior Chemist

MAY 28 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004842** MSACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:46:05
Instrument : CP20--17342A
Result file : 20PCBS17137009.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 122% (61-152) Conc.: 34.99118
%SSR(DCB) : 136% (48-164) Conc.: 39.12032

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	24.51	
3.16	3.18	3.20	26707.6	640.561146			1
3.37	3.40	3.41	29231.45	686.59566			2
3.49	3.51	3.53	28721.14	599.206629			3
3.71	3.73	3.75	35032.21	659.674583			4
3.76	3.79	3.80	25929.24	596.951738			5
3.96	3.98	4.00	36627.5	1051.668059			6
Height Summation:			**182249.14**				
Amount Avg CF:			**705.776302**	Linear:			
Aroclor-1221					3	42.38	
3.06	3.08	3.10	4130.787	206.819541			1
3.11	3.13	3.15	5109.805	295.932008			2
3.16	3.18	3.20	26707.6	478.789586			3
Height Summation:			**35948.192**				
Amount Avg CF:			**327.180378**	Linear:			
Aroclor-1232					6	44.04	
3.16	3.18	3.20	26707.6	533.762021			1
3.38	3.40	3.42	29231.45	1451.843671			2
+ 3.38	3.41	3.42	12367.56	614.261821			2
3.49	3.51	3.53	28721.14	1300.071304			3
3.71	3.73	3.75	35032.21	1461.786287			4
3.77	3.79	3.81	25929.24	1380.058778			5
3.96	3.98	4.00	36627.5	2521.88876			6
Height Summation:			**182249.14**				
Amount Avg CF:			**1441.56847**	Linear:			
Aroclor-1242					6	25.68	
3.16	3.18	3.20	26707.6	747.724652			1
3.38	3.40	3.42	29231.45	828.763706			2
+ 3.38	3.41	3.42	12367.56	350.642369			2
3.49	3.51	3.53	28721.14	743.652612			3
3.71	3.73	3.75	35032.21	806.312943			4
3.77	3.79	3.81	25929.24	762.24129			5
3.96	3.98	4.00	36627.5	1317.122224			6
Height Summation:			**182249.14**				
Amount Avg CF:			**867.636238**	Linear:			
Aroclor-1248					6	130.20	
3.76	3.79	3.80	25929.24	1099.494061			1
3.83	3.86	3.87	49095.16	1144.737279			2
3.96	3.98	4.00	36627.5	725.177478			3
4.05	4.07	4.09	33930.96	808.125573			4
4.23	4.23	4.27	154345.3	3103.127388			5
+ 4.23	4.25	4.27	38682.16	777.708619			5
4.61	4.64	4.65	371620.7	10192.243416			6
Height Summation:			**671548.86**				
Amount Avg CF:			**2845.484199**	Linear:			
Aroclor-1254					6	92.64	
4.21	4.23	4.25	154345.3	2631.920764			1
4.55	4.57	4.59	84119.46	1427.32171			2
+ 4.55	4.59	4.59	14268.73	242.108878			2
4.61	4.64	4.65	371620.7	3122.053083			3
4.73	4.76	4.77	577556.8	16165.411433			4
4.83	4.85	4.87	307820.2	3913.278745			5
5.14	5.17	5.18	1020081	12624.408298			6
Height Summation:			**2515543.46**				
Amount Avg CF:			**6647.399006**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:46:05
Instrument : CP20--17342B
Result file : 20PCBS17137009B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 112% (61-152) Conc.: 32.30481
%SSR(DCB) : 135% (48-164) Conc.: 38.80856

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	28.27	
2.88	2.90	2.92	110904.4	482.673844			1
+ 2.88	2.91	2.92	32694.97	142.293785			1
3.21	3.23	3.25	191649.7	671.187096			2
+ 3.40	3.40	3.44	16430.93	57.26705			3
3.40	3.42	3.44	185737.7	647.355338			3
3.47	3.49	3.51	215833.9	636.101267			4
3.63	3.65	3.67	296958.9	1041.665141			5
+ 3.72	3.73	3.76	71694.66	293.487526			6
3.72	3.74	3.76	225967.6	925.015502			6
Height Summation:			**1227052.2**				
Amount Avg CF:			**733.999698**	Linear:			
Aroclor-1221					3	8.47	
2.77	2.78	2.81	44857.13	369.923557			1
2.83	2.85	2.87	31308.63	418.842961			2
2.88	2.90	2.92	110904.4	357.652759			3
+ 2.88	2.91	2.92	32694.97	105.437171			3
Height Summation:			**187070.16**				
Amount Avg CF:			**382.139759**	Linear:			
Aroclor-1232					6	47.34	
2.88	2.90	2.92	110904.4	395.080241			1
+ 2.88	2.91	2.92	32694.97	116.470912			1
3.21	3.23	3.25	191649.7	1412.614164			2
+ 3.40	3.40	3.44	16430.93	135.369281			3
3.40	3.42	3.44	185737.7	1530.234674			3
3.47	3.49	3.51	215833.9	1447.357131			4
+ 3.66	3.68	3.70	92635.02	2274.653873			5
3.66	3.70	3.70	106723.1	2620.586823			5
+ 3.73	3.73	3.77	71694.66	671.48151			6
3.73	3.74	3.77	225967.6	2116.378893			6
Height Summation:			**1036816.4**				
Amount Avg CF:			**1587.041988**	Linear:			
Aroclor-1242					6	31.40	
2.88	2.90	2.92	110904.4	561.358075			1
+ 2.88	2.91	2.92	32694.97	165.490147			1
3.21	3.23	3.25	191649.7	812.261958			2
+ 3.40	3.40	3.44	16430.93	70.815487			3
3.40	3.42	3.44	185737.7	800.508896			3
3.47	3.49	3.51	215833.9	813.904212			4
3.64	3.65	3.68	296958.9	1360.088069			5
+ 3.73	3.73	3.77	71694.66	366.591548			6
3.73	3.74	3.77	225967.6	1155:425135			6
Height Summation:			**1227052.2**				
Amount Avg CF:			**917.257724**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004842** MSACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:46:05
Instrument : CP20--17342A
Result file : 20PCBS17137009.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	17.95	
4.73	4.76	4.77	577556.8	6782.07021			1
5.03	5.05	5.07	504003.1	10711.191753			2
5.20	5.23	5.24	374888	6804.276785			3
5.37	5.39	5.41	483482.3	7690.860502			4
5.61	5.63	5.65	1237919	8123.367802			5
5.82	5.84	5.86	688033.4	8037.12233			6
Height Summation:			**3865882.6**				
Amount Avg CF:			**8024.814897**	Linear:			
Aroclor-1262					6	44.46	
5.21	5.23	5.24	374888	3695.614156			1
5.37	5.39	5.41	483482.3	5899.714741			2
5.61	5.63	5.65	1237919	6249.855208			3
5.81	5.84	5.85	688033.4	6285.494988			4
5.87	5.88	5.91	60671.9	1118.859233			5
+ 5.87	5.89	5.91	42413.68	782.156772			5
6.25	6.27	6.29	267640	4056.916369			6
Height Summation:			**3112634.6**				
Amount Avg CF:			**4551.075783**	Linear:			
Aroclor-1268					6	128.00	
5.81	5.84	5.85	688033.4	2826.624628			1
5.87	5.88	5.91	60671.9	285.675888			2
+ 5.87	5.89	5.91	42413.68	199.706383			2
6.00	6.02	6.04	9626.194	48.608182			3
6.07	6.09	6.11	18749.49	412.966563			4
6.25	6.27	6.29	267640	3271.929955			5
6.45	6.47	6.49	56872.82	88.844957			6
Height Summation:			**1101593.804**				
Amount Avg CF:			**1155.775029**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:46:05
Instrument : CP20--17342B
Result file : 20PCBS17137009B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					6	97.29	
+ 3.40	3.40	3.44	16430.93	145.20025			1
3.40	3.42	3.44	185737.7	1641.365433			1
3.51	3.53	3.55	366471.2	1148.239852			2
3.63	3.65	3.67	296958.9	744.730745			3
+ 3.72	3.73	3.76	71694.66	249.008153			4
3.72	3.74	3.76	225967.6	784.825183			4
3.86	3.88	3.90	1390220	2549.233453			5
+ 4.22	4.22	4.26	340482	1412.087426			6
4.22	4.24	4.26	1535436	6367.942708			6
+ 4.22	4.25	4.26	507000.8	2102.693989			6
Height Summation:			**4000791.4**				
Amount Avg CF:			**2206.056229**	Linear:			
Aroclor-1254					6	94.67	
4.16	4.18	4.19	993100	2337.783715			1
+ 4.22	4.22	4.26	340482	451.716348			2
4.22	4.24	4.26	1535436	2037.057885			2
+ 4.22	4.25	4.26	507000.8	672.636292			2
4.31	4.33	4.35	4255063	12135.286515			3
4.38	4.40	4.42	1834962	3621.413238			4
4.44	4.46	4.48	5667304	19422.458314			5
4.60	4.62	4.64	1651804	4646.683703			6
Height Summation:			**15937669**				
Amount Avg CF:			**7366.780562**	Linear:			
Aroclor-1260					6	9.62	
4.31	4.33	4.35	4255063	7416.756124			1
4.44	4.46	4.48	5667304	8376.711376			2
4.55	4.57	4.59	3827240	7031.053055			3
4.90	4.92	4.94	2911003	6957.182141			4
5.09	5.11	5.13	8144938	8577.676496			5
5.35	5.37	5.39	5371852	8456.835404			6
Height Summation:			**30177400**				
Amount Avg CF:			**7802.702433**	Linear:			
Aroclor-1262					6	34.33	
4.71	4.73	4.75	2263785	3437.156802			1
4.90	4.92	4.94	2911003	4443.180919			2
5.09	5.11	5.13	8144938	6535.931289			3
5.31	5.33	5.35	1323701	2563.420322			4
5.35	5.37	5.39	5371852	6463.018695			5
5.73	5.75	5.77	2006996	4461.769451			6
Height Summation:			**22022275**				
Amount Avg CF:			**4650.746246**	Linear:			
Aroclor-1268					6	125.76	
5.31	5.33	5.35	1323701	787.095513			1
5.35	5.37	5.39	5371852	3154.891455			2
5.51	5.53	5.55	72959.58	49.876061			3
5.57	5.59	5.61	38274.16	108.218555			4
5.73	5.75	5.77	2006996	3501.751192			5
5.93	5.95	5.97	392154.9	90.027873			6
Height Summation:			**9205937.64**				
Amount Avg CF:			**1281.976775**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2509.8426	487.2047		3.92	4	40	
Aroclor-1221			2509.8426	752.9528		15.50	3	5	
Aroclor-1232			2509.8426	605.315		9.61	4	10	

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004842** MSACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.16 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:46:05
Instrument : CP20--17342A
Result file : 20PCBS17137009.028.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Analysis Report (B)

Injected on : May 26, 2017 19:46:05
Instrument : CP20--17342B
Result file : 20PCBS17137009B.028.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1242			2509.8426	605.315		5.56	4	30	
Aroclor-1248			2509.8426	487.2047		25.32	4	40	
Aroclor-1254			2509.8426	649.6063		10.27	4	40	
Aroclor-1260			2509.8426	575.7874		2.81	4	40	
Aroclor-1262			2509.8426	487.2047		2.17	4	40	
Aroclor-1268			2509.8426	487.2047		10.35	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004842MSACF DF50 ACA5502 MS 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:46:05 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.028.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.037		2434	2841
2.095		1946	2286
2.13		2684	1689
2.197		23085	16197
2.309		1511	1129
2.378		2585	3112
2.569		1360	1566
2.626		1305	787
2.648		9592	6450
2.83		1332	1209
2.924	TCX	80801	52248
3.037		3333	2148
3.076		4131	3479
3.134		5110	3580
3.182		26708	19470
3.229		17390	9157
3.243		10238	4635
3.276		3095	2034
3.397		29231	17244
3.414		12368	6088
3.451		2831	1435
3.466		1576	682
3.483		2230	1248
3.513		28721	20593
3.588		3342	2328
3.624		5207	2811
3.638		2275	1087
3.682		14007	7527
3.693		27162	14129
3.73		35032	26810
3.788		25929	19487
3.829		1940	1274
3.856		49095	36148
3.884		22872	18611
3.905		11036	5503
3.98		36628	26018
4.004		10328	6422
4.035		12098	8555
4.07		33931	34903
4.111		9909	7619
4.14		1332	817
4.158		1261	614
4.192		7306	5624
4.229		154345	114803
4.249		38682	21551
4.273		62389	46433
4.339		49774	42190
4.383		289946	280358
4.417		102952	83308
4.456		7082	5114
4.48		11292	8824
4.522		88304	83928
4.574		84119	61458
4.588		14269	6716

RT A	Compound A	Height A	Area A
4.605		32401	18974
4.636		371621	331259
4.681		212433	243290
4.719		78388	60872
4.758		577557	540933
4.808		32887	29096
4.85		307820	298682
4.878		7068	3840
4.905		125266	115790
4.958		852665	1009478
5.007		111424	101705
5.05		504003	495827
5.093		25382	17852
5.131		80151	97645
5.166		1020081	944558
5.188		36932	16891
5.228		374888	343769
5.271		278111	267892
5.393		483482	712551
5.451		234562	217373
5.492		138281	122593
5.533		23010	22166
5.576		184536	176950
5.603		9470	5079
5.632		1237919	1183379
5.668		11248	7260
5.723		2328	2519
5.84		688033	700660
5.878		60672	69344
5.892		42414	31974
6.023		9626	12418
6.088		18749	14484
6.112		119877	103046
6.269		267640	279104
6.314		19578	18307
6.47		56873	57855
6.615	DCB	54704	58976
6.693		2514	2613
6.924		957	2190
7.215		618	3590
7.284		934	928
7.4		2267	10933
7.676		776	1682
8.037		1557	6363

LANCASTER LABORATORIES

Sample Number: 9004842MSACF DF50 ACA5502 MS 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:46:05 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.028.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.064		3897	3352
2.112		6215	9247
2.156		10980	22379
2.238		15408	27506
2.318		2966	2663
2.363		69631	50024
2.392		4608	3517
2.459		1895	2199
2.474		3585	3151
2.563		3889	2903
2.614	TCX	453798	274725
2.658		12096	9828
2.701		4730	9206
2.784		44857	26656
2.846		31309	20009
2.898		110904	53253
2.91		32695	11407
2.921		115891	48922
3.008		18042	11776
3.104		143492	69437
3.116		47738	16419
3.156		16011	10232
3.177		14320	8396
3.202		17894	9772
3.226		191650	129628
3.264		26629	16803
3.309		48127	25212
3.324		32866	15825
3.356		1810	1153
3.374		107904	51945
3.384		204670	87740
3.404		16431	6067
3.418		185738	129984
3.492		215834	134280
3.527		366471	221224
3.55		273650	152765
3.568		124386	61749
3.654		296959	187340
3.676		92635	50121
3.698		106723	66037
3.727		71695	35824
3.743		225968	130507
3.783		76787	58846
3.83		39608	41708
3.853		146659	84649
3.876		1390221	918843
3.901		323680	194548
3.92		147155	74238
3.939		341160	206926
3.974		2002371	1331103
4.006		732294	477037
4.023		152281	72677
4.085		92914	82437
4.119		530834	429087

RT B	Compound B	Height B	Area B
4.146		34487	28416
4.176		993100	730428
4.217		340482	401399
4.237		1535436	884609
4.249		507001	236452
4.276		672322	685179
4.328		4255063	3309570
4.366		249536	208458
4.398		1834962	1266056
4.422		1002659	704341
4.465		5667305	4485042
4.519		10864	7851
4.567		3827240	3729002
4.618		1651804	1373569
4.659		1243399	1065342
4.695		6593813	5522671
4.728		2263785	1540247
4.766		1816929	1440027
4.825		13222	8819
4.866		425407	290059
4.883		132701	76488
4.917		2911003	2293988
4.941		874661	594181
4.991		1659177	1521201
5.026		931260	757940
5.056		631017	519821
5.089		388639	234566
5.111		8144939	6682704
5.152		174576	123791
5.184		220133	183235
5.248		11597	7095
5.303		67542	41378
5.326		1323701	1110225
5.371		5371853	5797413
5.473		4225	2654
5.526		72960	62430
5.571		175744	139966
5.595		38274	24925
5.617		6144	2416
5.644		877293	745473
5.721		2293	1122
5.751		2006996	1651064
5.782		112792	84129
5.95		392155	354637
6.109	DCB	384184	332922
6.248		2510	2761
6.285		12254	9566
6.312		9908	8757
6.425		2051	2351
6.589		3209	3827
6.715		1958	1945
6.914		2116	5513
7.014		3800	4126
7.131		2720	3834
7.364		3222	6764
7.558		4964	4878
7.93		2002	2658
8.22		20810	36153

9004842MSACF DF50 ACA5502 MS 171440031A 10225 SW-846 808:

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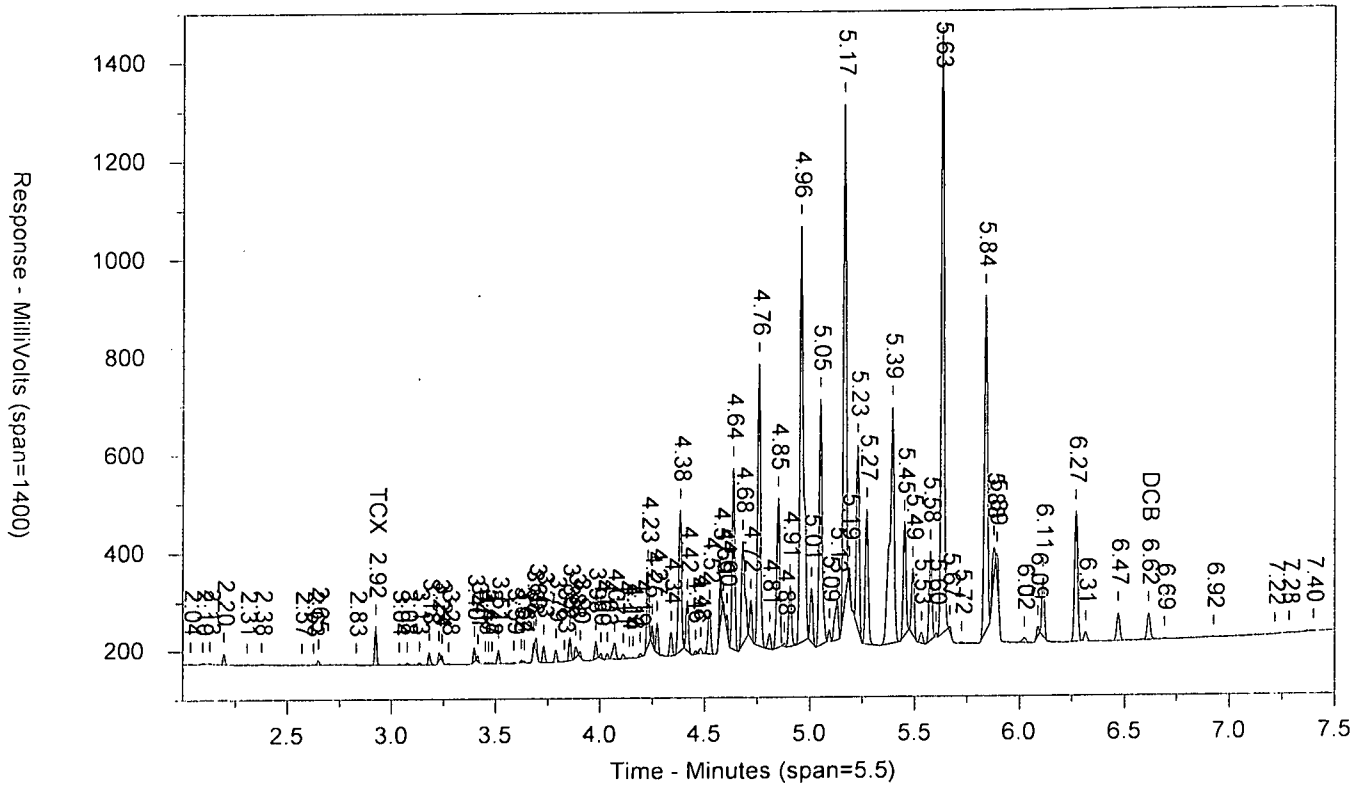

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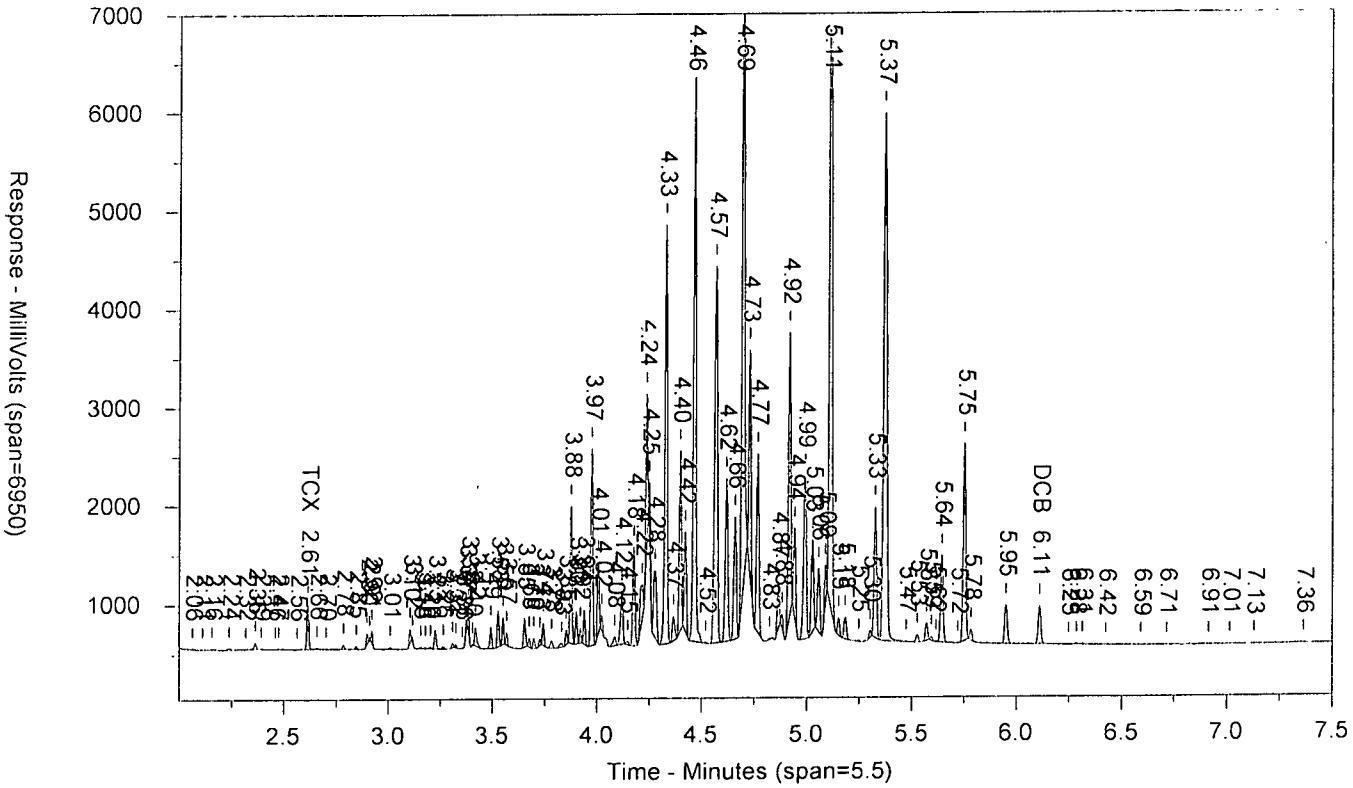

LANCASTER LABORATORIES

Sample Number: 9004842MSACF DF50 ACA5502 MS 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:46:05 PM Sample Weight: 10.16
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	80801	34.991	TCX	2.614	453798	32.305	TCX
6.615	54704	39.12	DCB	6.109	384184	38.809	DCB

Files:
Area File: 20pcbs17137009.028.RAW
Area File: 20pcbs17137009B.028.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 7:54:50 PM
File Reported On: 5/26/2017 at 7:54:59 PM

9004842MSACF DF50 ACA5502 MS 171440031A 10225 SW-846 808:

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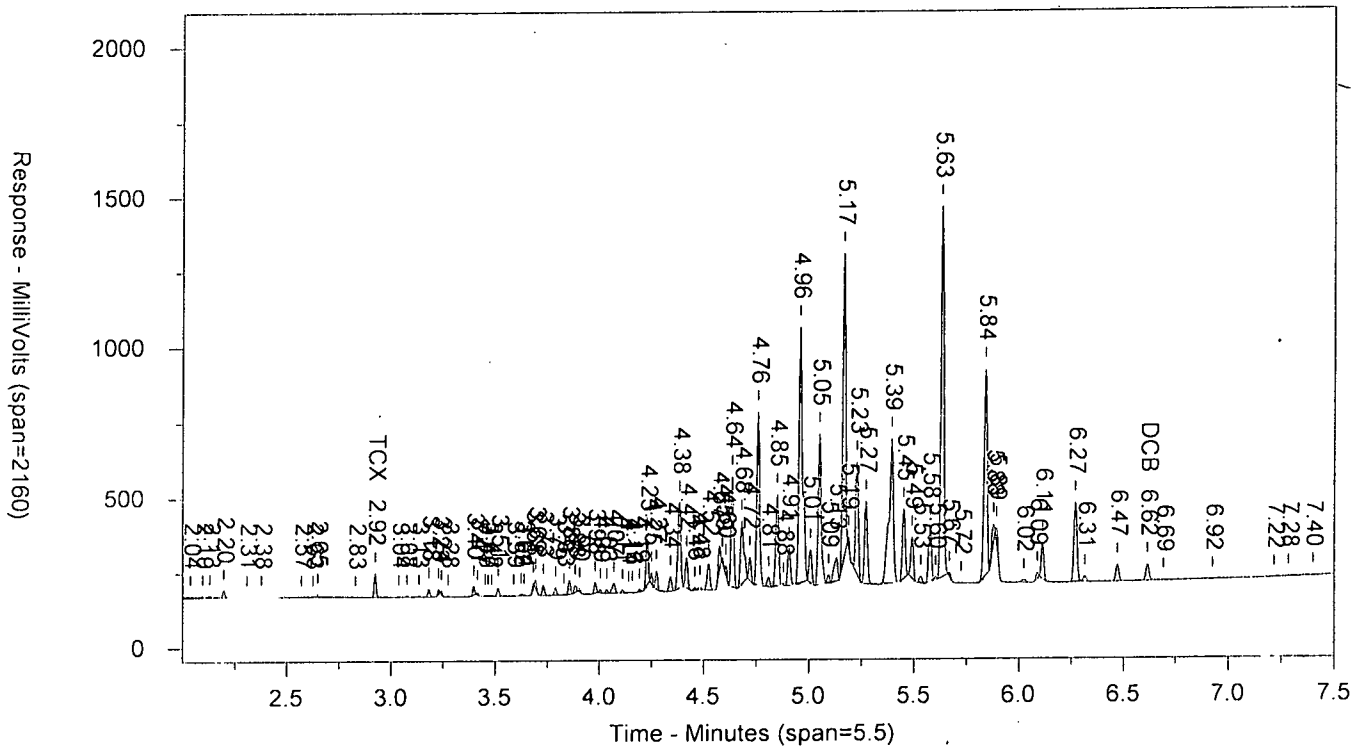

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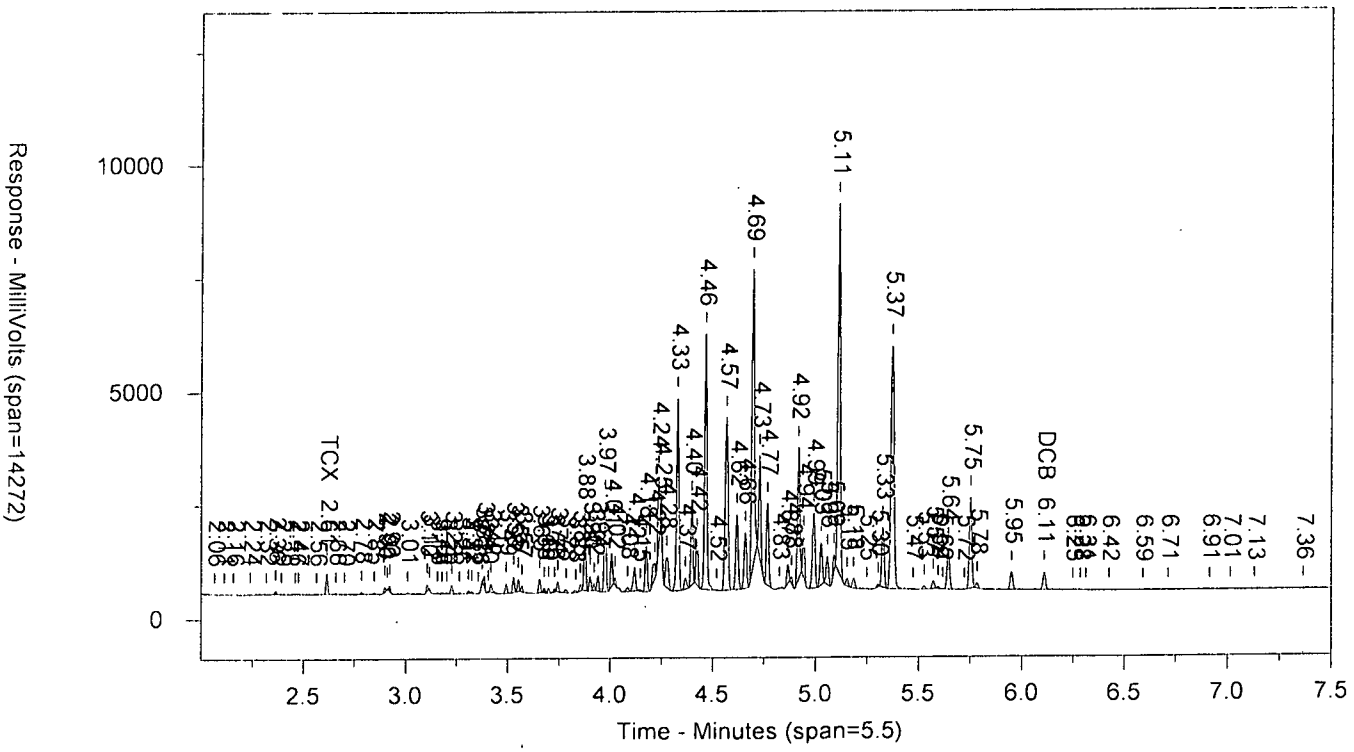

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Data Summary

Sample Name: 9004843 MSDACF DF50 A5502 MSD Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.43 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:57:33
Instrument	17342A
Result file	20PCBS17137009.029.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 118% (61 - 152) Conc: 33.01666
%SSR(DCB) 135% (48 - 164) Conc: 37.9559

Analysis Report (B)

Injected on	May 26, 2017 19:57:33
Instrument	17342B
Result file	20PCBS17137009B.029.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 107% (61 - 152) Conc: 30.01364
%SSR(DCB) 136% (48 - 164) Conc: 38.15703

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	78267	33.01666
Decachlorobiphenyl	6.58	6.61	6.64	54486	37.9559

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	432818	30.01364
Decachlorobiphenyl	6.08	6.11	6.14	387773	38.15703

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	A	33.01666				9.53	
☐ Decachlorobiphenyl	B	38.15703				0.53	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**17.99**	
4.73	4.76	4.77	558853.1	6392.55751			1
5.03	5.05	5.07	499255.7	10335.631525			2
5.20	5.23	5.24	382087.7	6755.428307			3
5.37	5.39	5.41	474923.6	7359.147462			4
5.61	5.63	5.65	1212751	7752.199302			5
5.82	5.84	5.86	682903.5	7770.693788			6

Height summation: **3810774.6**
Concentration CF: **7727.609649** L:

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**10.34**	
4.31	4.33	4.35	4144521	7037.06801			1
4.44	4.46	4.48	5545673	7984.738545			2
4.55	4.57	4.59	3791420	6784.939418			3
4.90	4.92	4.94	2937760	6839.375263			4
5.09	5.11	5.13	8300914	8515.638056			5
5.35	5.37	5.39	5428813	8325.266045			6

Height summation: **30149101**
Concentration CF: **7581.17089** L:

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☐ PCB-1016			<2444.8706	<474.5925			4	
☐ PCB-1221			<2444.8706	<733.4612			3	
☐ PCB-1232			<2444.8706	<589.6453			4	
☐ PCB-1242			<2444.8706	<589.6453			4	
☐ PCB-1248			<2444.8706	<474.5925			4	
☐ PCB-1254			<2444.8706	<632.79			4	
☐ PCB-1260	A	7727.609649	2444.8706	560.8821		1.91	4	
☐ PCB-1262			<2444.8706	<474.5925			4	
☐ PCB-1268			<2444.8706	<474.5925			4	
☐ Total PCBs	A	7727.609649	2444.8706	474.5925				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by:
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004843** MSDACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.43 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:57:33
Instrument : CP20--17342A
Result file : 20PCBS17137009.029.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 118% (61-152) Conc.: 33.01666
%SSR(DCB) : 135% (48-164) Conc.: 37.9559

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	24.87	
3.16	3.18	3.20	26848.46	627.269988			1
3.37	3.40	3.41	27798.15	636.027639			2
+ 3.37	3.41	3.41	12073.08	276.234662			2
3.49	3.51	3.53	29582.32	601.196669			3
3.71	3.73	3.75	35320.35	647.883043			4
3.76	3.79	3.80	25915.56	581.191736			5
3.96	3.98	4.00	36949.02	1033.436343			6
Height Summation:			**182413.86**				
Amount Avg CF:			**687.834236**	Linear:			
Aroclor-1221					3	44.28	
3.06	3.08	3.10	4187.306	204.222161			1
3.11	3.13	3.15	4705.536	265.464293			2
3.16	3.18	3.20	26848.46	468.855065			3
Height Summation:			**35741.302**				
Amount Avg CF:			**312.847173**	Linear:			
Aroclor-1232					6	44.44	
3.16	3.18	3.20	26848.46	522.686863			1
3.38	3.40	3.42	27798.15	1344.914855			2
+ 3.38	3.41	3.42	12073.08	584.113138			2
3.49	3.51	3.53	29582.32	1304.389003			3
3.71	3.73	3.75	35320.35	1435.657175			4
3.77	3.79	3.81	25915.56	1343.624127			5
3.96	3.98	4.00	36949.02	2478.1693			6
Height Summation:			**182413.86**				
Amount Avg CF:			**1404.906887**	Linear:			
Aroclor-1242					6	26.11	
3.16	3.18	3.20	26848.46	732.209933			1
3.38	3.40	3.42	27798.15	767.724957			2
+ 3.38	3.41	3.42	12073.08	333.432434			2
3.49	3.51	3.53	29582.32	746.122375			3
3.71	3.73	3.75	35320.35	791.900275			4
3.77	3.79	3.81	25915.56	742.117512			5
3.96	3.98	4.00	36949.02	1294.288595			6
Height Summation:			**182413.86**				
Amount Avg CF:			**845.727275**	Linear:			
Aroclor-1248					6	133.01	
3.76	3.79	3.80	25915.56	1070.466541			1
3.83	3.86	3.87	50470.43	1146.340275			2
3.96	3.98	4.00	36949.02	712.605802			3
4.05	4.07	4.09	34518.36	800.833544			4
4.23	4.23	4.27	146687	2872.8121			5
+ 4.23	4.25	4.27	40660.39	796.319104			5
4.61	4.64	4.65	384799.3	10280.484034			6
Height Summation:			**679339.67**				
Amount Avg CF:			**2813.923716**	Linear:			
Aroclor-1254					6	87.13	
4.21	4.23	4.25	146687	2436.57861			1
4.55	4.57	4.59	127879.6	2113.664554			2
4.61	4.64	4.65	384799.3	3149.082647			3
4.73	4.76	4.77	558853.1	15236.987978			4
4.83	4.85	4.87	327922.3	4060.916119			5
5.14	5.17	5.18	1019121	12286.028652			6
Height Summation:			**2565262.3**				
Amount Avg CF:			**6547.20976**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:57:33
Instrument : CP20--17342B
Result file : 20PCBS17137009B.029.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 107% (61-152) Conc.: 30.01364
%SSR(DCB) : 136% (48-164) Conc.: 38.15703

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	26.89	
2.88	2.90	2.92	113963.4	483.147554			1
+ 2.88	2.91	2.92	26809.51	113.658852			1
3.21	3.23	3.25	197303.8	673.101105			2
+ 3.40	3.40	3.44	17196.55	58.38394			3
3.40	3.42	3.44	191789.7	651.144459			3
3.47	3.49	3.51	212055.9	608.788391			4
3.63	3.65	3.67	292002.9	997.765192			5
+ 3.72	3.73	3.76	70333.3	280.461487			6
3.72	3.74	3.76	227402.7	906.792364			6
Height Summation:			**1234518.4**				
Amount Avg CF:			**720.123178**	Linear:			
Aroclor-1221					3	7.16	
2.77	2.78	2.81	44468.34	357.224158			1
2.83	2.85	2.87	30992.37	403.879068			2
2.88	2.90	2.92	113963.4	358.00377			3
+ 2.88	2.91	2.92	26809.51	84.219194			3
Height Summation:			**189424.11**				
Amount Avg CF:			**373.035665**	Linear:			
Aroclor-1232					6	46.37	
2.88	2.90	2.92	113963.4	395.467985			1
+ 2.88	2.91	2.92	26809.51	93.032525			1
3.21	3.23	3.25	197303.8	1416.642485			2
+ 3.40	3.40	3.44	17196.55	138.009411			3
3.40	3.42	3.44	191789.7	1539.191494			3
3.47	3.49	3.51	212055.9	1385.210601			4
+ 3.66	3.68	3.70	91509.78	2188.855197			5
3.66	3.70	3.70	105554.7	2524.800668			5
+ 3.73	3.73	3.77	70333.3	641.678729			6
3.73	3.74	3.77	227402.7	2074.685468			6
Height Summation:			**1048070.2**				
Amount Avg CF:			**1555.999783**	Linear:			
Aroclor-1242					6	29.90	
2.88	2.90	2.92	113963.4	561.909008			1
+ 2.88	2.91	2.92	26809.51	132.187221			1
3.21	3.23	3.25	197303.8	814.578267			2
+ 3.40	3.40	3.44	17196.55	72.196613			3
3.40	3.42	3.44	191789.7	805.194461			3
3.47	3.49	3.51	212055.9	778.956845			4
3.64	3.65	3.68	292002.9	1302.7685			5
+ 3.73	3.73	3.77	70333.3	350.320887			6
3.73	3.74	3.77	227402.7	1132.662844			6
Height Summation:			**1234518.4**				
Amount Avg CF:			**899.344987**	Linear:			
Aroclor-1248					6	108.17	
+ 3.40	3.40	3.44	17196.55	148.032116			1
3.40	3.42	3.44	191789.7	1650.972727			1
3.51	3.53	3.55	355595	1085.320011			2
3.63	3.65	3.67	292002.9	713.344803			3
+ 3.72	3.73	3.76	70333.3	237.956269			4
3.72	3.74	3.76	227402.7	769.363845			4
3.86	3.88	3.90	1359687	2428.703069			5
4.22	4.24	4.26	1799709	7270.748402			6
+ 4.22	4.25	4.26	542518.2	2191.750631			6
Height Summation:			**4226186.3**				
Amount Avg CF:			**2319.742143**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **9004843** MSDACF DF50 A5502 Sample ID: AC **Batchnumber: 171440031A**
Sample Amount: 10.43 g Total Volume: 500 ml Analyst: 2855 SDG: ATE55 State: DE
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:57:33
Instrument : CP20--17342A
Result file : 20PCBS17137009.029.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	17.99	
4.73	4.76	4.77	558853.1	6392.55751			1
5.03	5.05	5.07	499255.7	10335.631525			2
5.20	5.23	5.24	382087.7	6755.428307			3
5.37	5.39	5.41	474923.6	7359.147462			4
5.61	5.63	5.65	1212751	7752.199302			5
5.82	5.84	5.86	682903.5	7770.693788			6
Height Summation:			**3810774.6**				
Amount Avg CF:			**7727.609649**	Linear:			
Aroclor-1262					6	27.36	
5.21	5.23	5.24	382087.7	3669.08303			1
5.37	5.39	5.41	474923.6	5645.255268			2
5.61	5.63	5.65	1212751	5964.290225			3
5.81	5.84	5.85	682903.5	6077.132443			4
5.87	5.88	5.91	169833.2	3050.842915			5
6.25	6.27	6.29	280005.2	4134.476523			6
Height Summation:			**3202504.2**				
Amount Avg CF:			**4756.846734**	Linear:			
Aroclor-1268					6	116.05	
5.81	5.84	5.85	682903.5	2732.922747			1
5.87	5.88	5.91	169833.2	778.96507			2
6.00	6.02	6.04	9488.387	46.672016			3
6.07	6.09	6.11	19691.4	422.485127			4
6.25	6.27	6.29	280005.2	3334.482733			5
6.45	6.47	6.49	57257.67	87.130677			6
Height Summation:			**1219179.357**				
Amount Avg CF:			**1233.776395**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:57:33
Instrument : CP20--17342B
Result file : 20PCBS17137009B.029.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	90.74	
4.16	4.18	4.19	1031379	2365.042944			1
4.22	4.24	4.26	1799709	2325.858765			2
+ 4.22	4.25	4.26	542518.2	701.124854			2
4.31	4.33	4.35	4144521	11514.041328			3
4.38	4.40	4.42	1898300	3649.431843			4
4.44	4.46	4.48	5545673	18513.620031			5
4.60	4.62	4.64	1727345	4733.398672			6
Height Summation:			**16146927**				
Amount Avg CF:			**7183.565597**	Linear:			
Aroclor-1260					6	10.34	
4.31	4.33	4.35	4144521	7037.06801			1
4.44	4.46	4.48	5545673	7984.738545			2
4.55	4.57	4.59	3791420	6784.939418			3
4.90	4.92	4.94	2937760	6839.375263			4
5.09	5.11	5.13	8300914	8515.638056			5
5.35	5.37	5.39	5428813	8325.266045			6
Height Summation:			**30149101**				
Amount Avg CF:			**7581.17089**	Linear:			
Aroclor-1262					6	35.76	
4.71	4.73	4.75	2087734	3087.796926			1
4.90	4.92	4.94	2937760	4367.943953			2
5.09	5.11	5.13	8300914	6488.659865			3
5.31	5.33	5.35	1370094	2584.578278			4
5.35	5.37	5.39	5428813	6362.468644			5
5.73	5.75	5.77	1987128	4303.242903			6
Height Summation:			**22112443**				
Amount Avg CF:			**4532.448428**	Linear:			
Aroclor-1268					6	124.89	
5.31	5.33	5.35	1370094	793.592041			1
5.35	5.37	5.39	5428813	3105.808432			2
5.51	5.53	5.55	73039.77	48.638326			3
5.57	5.59	5.61	40633.88	111.916406			4
5.73	5.75	5.77	1987128	3377.334066			5
5.93	5.95	5.97	391768.1	87.610834			6
Height Summation:			**9291476.75**				
Amount Avg CF:			**1254.150017**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			2444.8706	474.5925		4.59	4	40	
Aroclor-1221			2444.8706	733.4612		17.55	3	5	
Aroclor-1232			2444.8706	589.6453		10.21	4	10	
Aroclor-1242			2444.8706	589.6453		6.15	4	30	
Aroclor-1248			2444.8706	474.5925		19.25	4	40	
Aroclor-1254			2444.8706	632.79		9.27	4	40	
Aroclor-1260			2444.8706	560.8821		1.91	4	40	
Aroclor-1262			2444.8706	474.5925		4.83	4	40	
Aroclor-1268			2444.8706	474.5925		1.64	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 9004843MSDACF DF50 ACA5502 MSD 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:57:33 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.029.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.036		2099	2194
2.099		1826	2494
2.128		2128	2381
2.197		23631	16943
2.311		1511	1545
2.376		2633	3438
2.423		1310	1493
2.568		1457	1513
2.627		1262	687
2.647		9865	6432
2.827		1777	1852
2.924	TCX	78267	51480
3.038		3603	2532
3.077		4187	3886
3.134		4706	2966
3.182		26848	19587
3.229		17568	9629
3.242		7244	3428
3.275		2790	2050
3.397		27798	16628
3.413		12073	6006
3.451		2478	1444
3.482		2225	1347
3.513		29582	20986
3.587		3347	2260
3.623		5367	2954
3.637		2842	1280
3.682		14021	7045
3.693		25932	14314
3.729		35320	27075
3.788		25916	19912
3.828		1741	1193
3.855		50470	36303
3.882		23599	19637
3.904		10071	5420
3.979		36949	26507
4.003		9587	6100
4.033		12958	8766
4.069		34518	35488
4.109		9841	7563
4.139		1505	837
4.155		1253	859
4.191		7294	5370
4.228		146687	111215
4.248		40660	23481
4.272		64930	49750
4.298		2141	1197
4.339		50925	41935
4.382		299908	277932
4.416		105371	86833
4.456		7063	5064
4.48		12053	8959
4.521		92378	86766
4.575		127880	137174

RT A	Compound A	Height A	Area A
4.605		37274	22255
4.635		384799	339353
4.68		200402	232088
4.719		86079	61939
4.757		558853	523659
4.808		32582	30401
4.849		327922	312536
4.878		6327	3428
4.904		118400	113311
4.957		794782	989347
5.006		107018	98004
5.05		499256	499144
5.092		25975	18674
5.129		79609	97190
5.166		1019121	937477
5.187		30388	13385
5.228		382088	334176
5.271		264512	262624
5.393		474924	708869
5.451		224515	211125
5.49		135684	123497
5.531		23847	21296
5.576		190220	176903
5.602		10038	5428
5.632		1212751	1173239
5.667		11106	7196
5.717		2665	3282
5.756		1287	929
5.839		682904	703776
5.879		169833	345978
6.024		9488	13808
6.086		19691	14933
6.11		112821	102307
6.268		280005	278916
6.313		19664	18220
6.468		57258	58417
6.614	DCB	54486	62271
6.692		2286	1916
6.896		650	727
7.405		1914	6750
7.945		585	360
8.568		741	511
8.645		575	1003
8.682		1626	1616

LANCASTER LABORATORIES

Sample Number: 9004843MSDACF DF50 ACA5502 MSD 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:57:33 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.029.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.024		2341	2622
2.112		5845	9208
2.156		10613	7834
2.239		15829	28157
2.318		3806	3970
2.363		68412	49513
2.394		5568	3971
2.478		4347	5875
2.565		5504	4999
2.596		2471	2394
2.614	TCX	432818	259984
2.658		11528	9356
2.699		5435	10056
2.764		2067	842
2.785		44468	27345
2.845		30992	21176
2.898		113963	54640
2.911		26810	8805
2.921		121942	55850
3.008		17770	11973
3.104		138664	68802
3.116		47488	16381
3.156		14897	9155
3.177		13788	8180
3.202		18148	10063
3.226		197304	130464
3.263		28104	20162
3.308		48416	25553
3.324		31560	15428
3.353		2334	847
3.374		96975	48969
3.383		204285	88526
3.403		17197	6682
3.417		191790	128794
3.491		212056	134872
3.526		355595	219316
3.55		273055	154261
3.568		125189	62892
3.653		292003	188142
3.676		91510	47104
3.696		105555	67281
3.726		70333	35493
3.742		227403	133616
3.783		75885	59282
3.83		38578	40603
3.853		157079	90587
3.875		1359687	901795
3.9		357795	209746
3.92		137356	70877
3.938		322328	198319
3.974		1947471	1311220
4.005		789979	504484
4.023		172423	77962
4.084		99288	83543

RT B	Compound B	Height B	Area B
4.118		562162	441135
4.145		33168	26579
4.175		1031379	767064
4.209		427257	428183
4.236		1799709	989846
4.249		542518	235905
4.275		662257	661011
4.327		4144521	3237735
4.365		258428	216779
4.397		1898301	1348650
4.421		999423	689535
4.464		5545673	4412508
4.518		10702	8023
4.567		3791420	3675079
4.617		1727345	1449895
4.658		1244120	1061262
4.695		6665728	5539750
4.727		2087735	1448261
4.766		1803709	1414359
4.824		15580	9400
4.837		11683	6377
4.865		405657	280538
4.882		140927	75365
4.916		2937760	2260612
4.94		878814	624529
4.99		1689319	1506831
5.026		940303	755124
5.056		638274	511531
5.088		451410	282149
5.11		8300914	6636958
5.152		171773	124034
5.184		219557	182796
5.224		5974	3556
5.249		11751	8138
5.302		66415	40328
5.325		1370094	1095644
5.37		5428813	5789552
5.468		3859	3943
5.525		73040	62767
5.571		176299	143290
5.594		40634	26091
5.616		4876	2056
5.644		857489	748079
5.749		1987128	1654743
5.781		108130	83410
5.949		391768	346275
6.108	DCB	387773	345311
6.282		10119	7563
6.312		11983	9326
6.586		3429	3024
7.013		5096	6591
7.064		2119	4055
7.123		2806	3664
8.052		1994	3485
8.218		19087	32807

9004843MSDACF DF50 ACA5502 MSD 171440031A 10225 SW-846 8C

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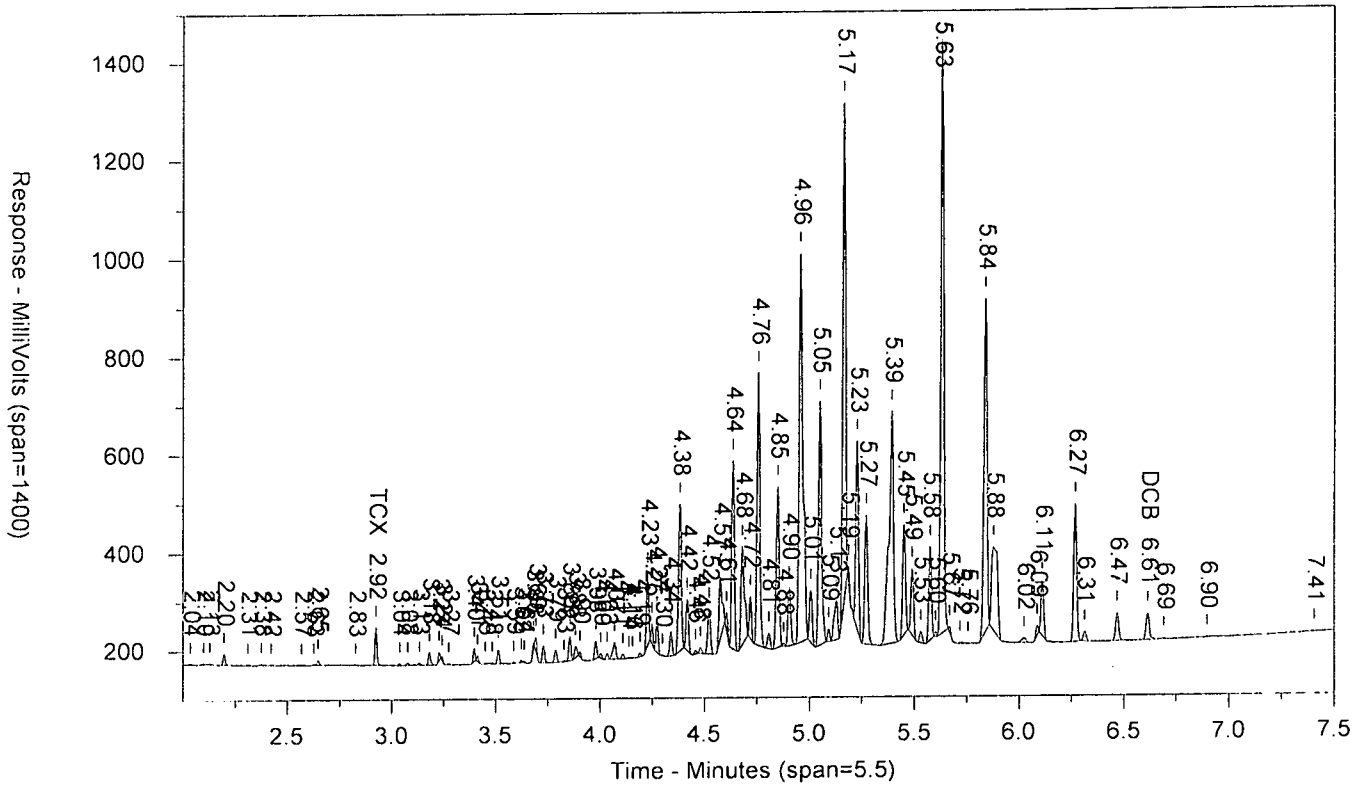

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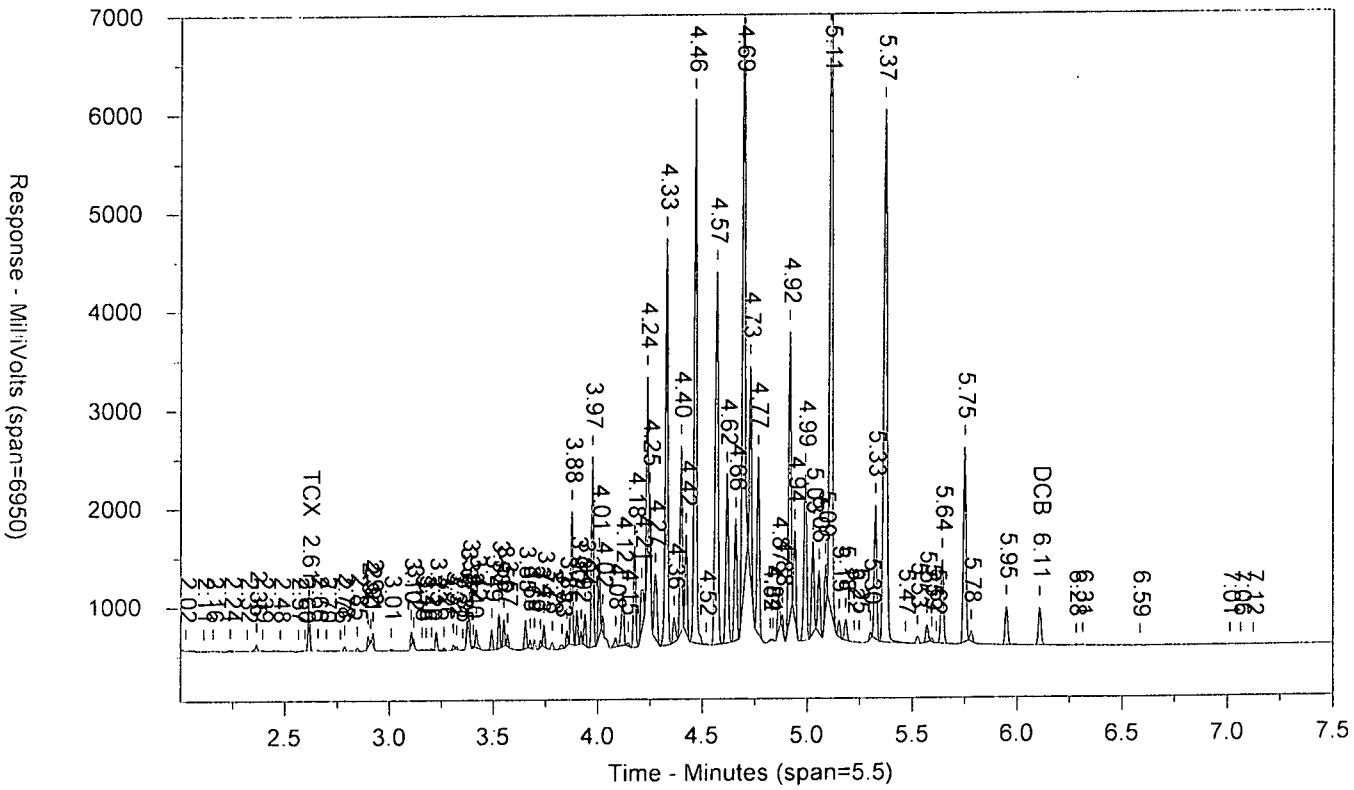

LANCASTER LABORATORIES

Sample Number: 9004843MSDACF DF50 ACA5502 MSD 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:57:33 PM Sample Weight: 10.43
Instrument ID: CP20-17342 Dilution Factor: 500
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	78267	33.017	TCX	2.614	432818	30.014	TCX
6.614	54486	37.956	DCB	6.108	387773	38.157	DCB

Files:
Area File: 20pcbs17137009.029.RAW
Area File: 20pcbs17137009B.029.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 8:06:19 PM
File Reported On: 5/26/2017 at 8:06:39 PM

9004843MSDACF DF50 ACA5502 MSD 171440031A 10225 SW-846 8C

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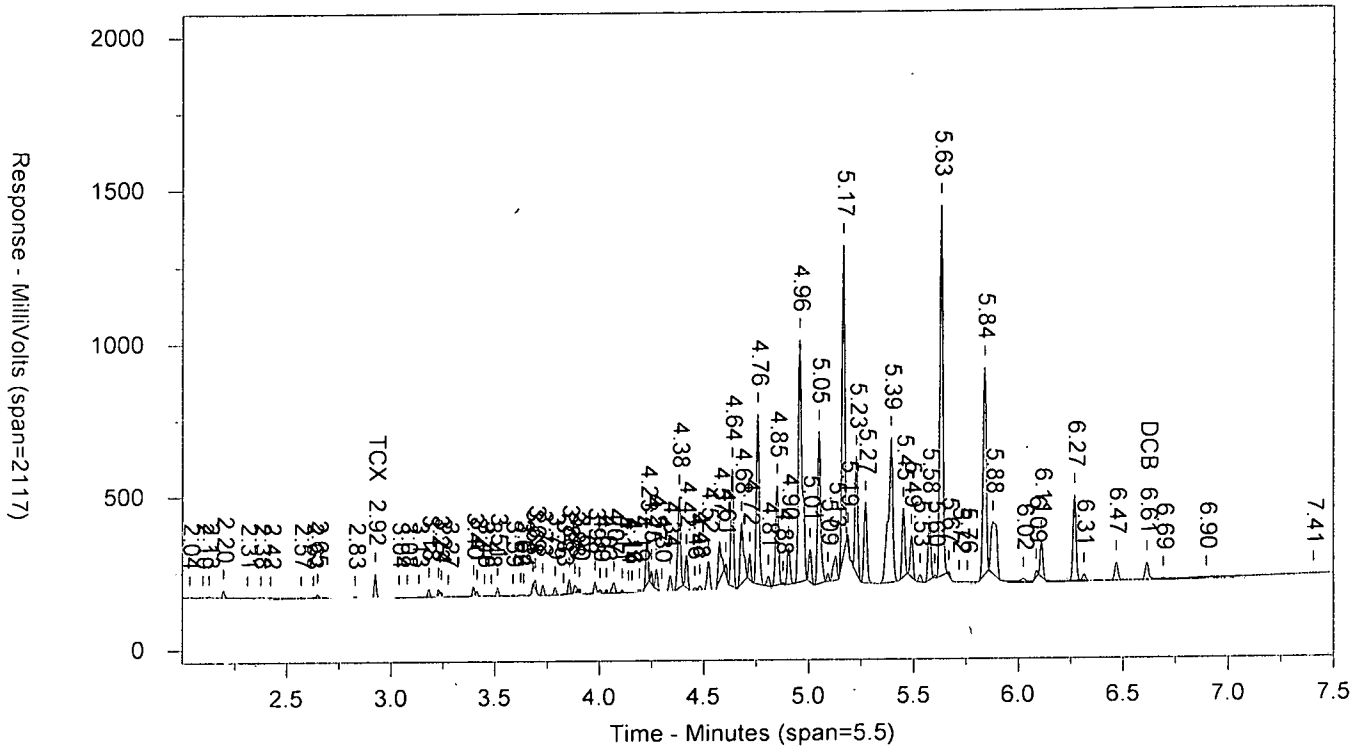

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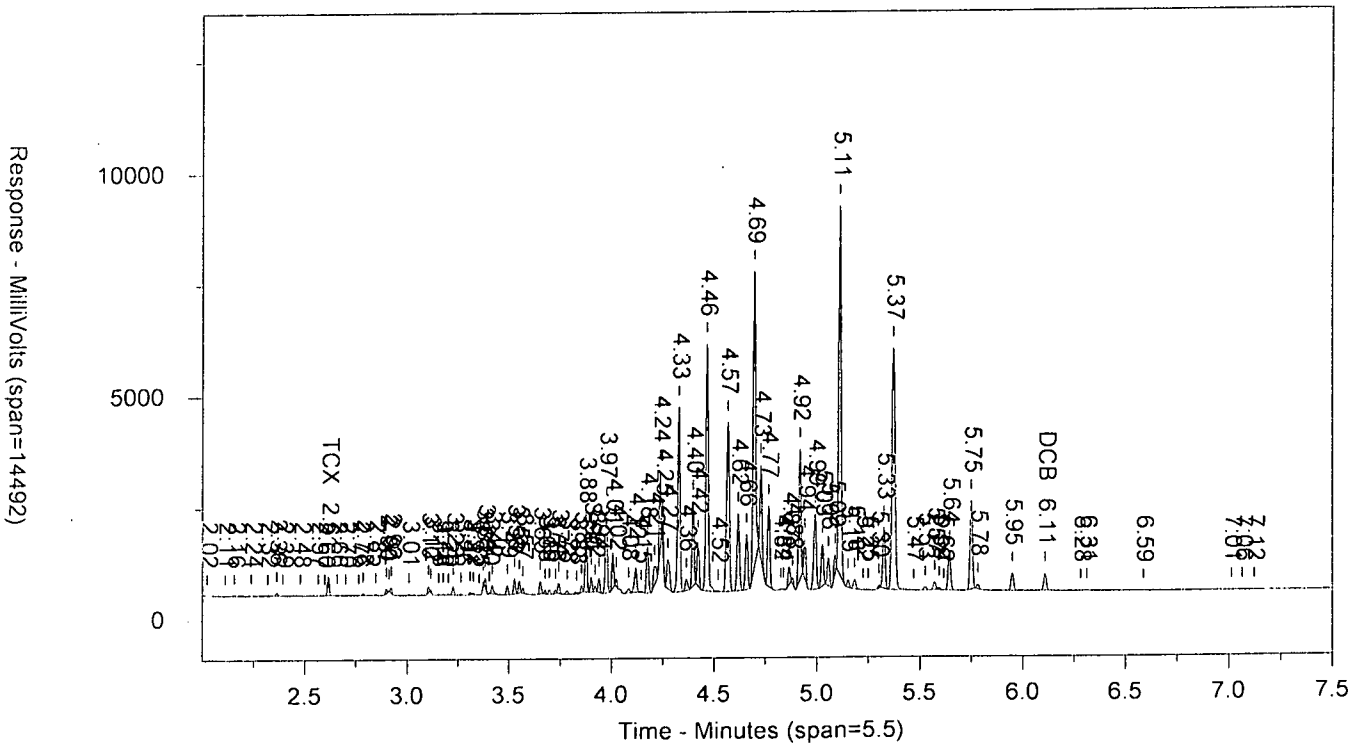

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Lancaster Laboratories Environmental

Data Summary

Sample Name: LCSA 5/25/17 ACF LCS31144 LCS Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:11:53
Instrument	17342A
Result file	20PCBS17137009.025.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

%SSR(TCX) 114% (61 - 152) Conc: 33.41636
%SSR(DCB) 107% (48 - 164) Conc: 31.27961

Analysis Report (B)

Injected on	May 26, 2017 19:11:53
Instrument	17342B
Result file	20PCBS17137009B.025.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

%SSR(TCX) 114% (61 - 152) Conc: 33.27386
%SSR(DCB) 105% (48 - 164) Conc: 30.68039

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.89	2.92	2.95	3797452	33.41636
Decachlorobiphenyl	6.58	6.61	6.64	2152549	31.27961

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	2.59	2.61	2.65	23002510	33.27386
Decachlorobiphenyl	6.08	6.11	6.14	14946820	30.68039

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	A	33.41636				0.43	
☐ Decachlorobiphenyl	A	31.27961				1.93	

Multiple Component Data

Aroclor-1016 (%RSD 2.52)

Min	RT	Max	Height	Amount	Pks	Peak
3.16	3.18	3.20	1018672	496.459473		1
3.37	3.40	3.41	1020589	487.108022		2
3.49	3.51	3.53	1138524	482.659467		3
3.71	3.73	3.75	1301564	498.025347		4
3.76	3.79	3.80	1109187	518.893114		5
3.96	3.98	4.00	852508.5	497.386311		6

Height summation: **6441044.5**
Concentration CF: **496.755289** L:

Aroclor-1016 (%RSD 4.47)

Min	RT	Max	Height	Amount	Pks	Peak
2.88	2.90	2.92	5454794	482.399719		1
3.21	3.23	3.25	6874859	489.241122		2
3.40	3.42	3.44	7716248	546.477834		3
3.47	3.49	3.51	8619316	516.182301		4
3.63	3.65	3.67	7158393	510.235917		5
3.72	3.74	3.76	6050278	503.27096		6

Height summation: **41873888**
Concentration CF: **507.967976** L:

Aroclor-1260 (%RSD 3.61)

Min	RT	Max	Height	Amount	Pks	Peak
4.73	4.75	4.77	2080064	496.327091		1
5.03	5.05	5.07	1173204	506.642742		2
5.20	5.23	5.24	1416026	522.24629		3
5.37	5.39	5.41	1637313	529.236475		4
5.61	5.63	5.65	3981579	530.912474		5
5.82	5.84	5.86	2047711	486.052772		6

Height summation: **12335897**
Concentration CF: **511.902974** L:

Aroclor-1260 (%RSD 3.90)

Min	RT	Max	Height	Amount	Pks	Peak
4.31	4.33	4.35	14593180	516.870383		1
4.44	4.46	4.48	17612780	528.991455		2
4.55	4.57	4.59	14339100	535.279086		3
4.90	4.92	4.94	10999200	534.165116		4
5.09	5.11	5.13	26964580	577.031131		5
5.35	5.37	5.39	17261070	552.173114		6

Height summation: **101769910**
Concentration CF: **540.751714** L:

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Lancaster Laboratories Environmental

Data Summary

Sample Name: LCSA 5/25/17 ACF LCS31144 LCS Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on	May 26, 2017 19:11:53
Instrument	17342A
Result file	20PCBS17137009.025.RAW
Calibration file	20PCBS1713701
Method file	20PCBS

Analysis Report (B)

Injected on	May 26, 2017 19:11:53
Instrument	17342B
Result file	20PCBS17137009B.025.RAW
Calibration file	20PCBS1713701B
Method file	20PCBSB

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Comments
☐ PCB-1016	B	507.967976	51	9.9		2.23	4	
☐ PCB-1221			<51	<15.3			3	
☐ PCB-1232			<51	<12.3			4	
☐ PCB-1242			<51	<12.3			4	
☐ PCB-1248			<51	<9.9			4	
☐ PCB-1254			<51	<13.2			4	
☐ PCB-1260	B	540.751714	51	11.7		5.48	4	
☐ PCB-1262			<51	<9.9			4	
☐ PCB-1268			<51	<9.9			4	
☐ Total PCBs	A	1048.71969	51	9.9				

Units: ug/kg

%RPD = High - Low Amount divided by the Average times 100

Valerie L. Tomayko
Principal Specialist

Reviewed by: Jessica L. Miller, Senior Chemist
Date: MAY 28 2017

Verified by:
Date: MAY 30 2017

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **LCSA** 5/25/17 ACF LCS31144 Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:11:53
Instrument : CP20--17342A
Result file : 20PCBS17137009.025.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

%SSR(TCX) : 114% (61-152) Conc.: 33.41636
%SSR(DCB) : 107% (48-164) Conc.: 31.27961

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	2.52	
3.16	3.18	3.20	1018672	496.459473			1
3.37	3.40	3.41	1020589	487.108022			2
+ 3.37	3.41	3.41	453488.7	216.441666			2
3.49	3.51	3.53	1138524	482.659467			3
3.71	3.73	3.75	1301564	498.025347			4
3.76	3.79	3.80	1109187	518.893114			5
3.96	3.98	4.00	852508.5	497.386311			6
Height Summation:			**6441044.5**				
Amount Avg CF:			**496.755289**	Linear:			
Aroclor-1221					3	36.12	
3.06	3.08	3.10	172970.5	175.976434			1
E 3.11	3.13	3.15	224587.3	264.299603			2
E 3.16	3.18	3.20	1018672	371.080305			3
Height Summation:			**1416229.8**				
Amount Avg CF:			**270.452114**	Linear:			
Aroclor-1232					6	29.55	
E 3.16	3.18	3.20	1018672	413.686052			1
E 3.38	3.40	3.42	1020589	1030.016268			2
E+ 3.38	3.41	3.42	453488.7	457.677614			2
E 3.49	3.51	3.53	1138524	1047.20424			3
E 3.71	3.73	3.75	1301564	1103.584467			4
E 3.77	3.79	3.81	1109187	1199.599486			5
E 3.96	3.98	4.00	852508.5	1192.727055			6
Height Summation:			**6441044.5**				
Amount Avg CF:			**997.802928**	Linear:			
Aroclor-1242					6	4.90	
E 3.16	3.18	3.20	1018672	579.515303			1
E 3.38	3.40	3.42	1020589	587.969708			2
E+ 3.38	3.41	3.42	453488.7	261.258566			2
E 3.49	3.51	3.53	1138524	599.010352			3
E 3.71	3.73	3.75	1301564	608.730871			4
E 3.77	3.79	3.81	1109187	662.569068			5
E 3.96	3.98	4.00	852508.5	622.932834			6
Height Summation:			**6441044.5**				
Amount Avg CF:			**610.121356**	Linear:			
Aroclor-1248					6	68.00	
E 3.76	3.79	3.80	1109187	955.721981			1
3.83	3.85	3.87	778270.1	368.740802			2
3.96	3.98	4.00	852508.5	342.972621			3
4.05	4.07	4.09	851393	412.037252			4
4.23	4.25	4.27	233435.9	95.366874			5
4.61	4.63	4.65	614908.8	342.692265			6
Height Summation:			**4439703.3**				
Amount Avg CF:			**419.588632**	Linear:			
Aroclor-1254					6	108.28	
4.21	4.23	4.25	964912.4	334.342043			1
+ 4.55	4.57	4.59	101239.8	34.906024			2
4.55	4.59	4.59	187724.7	64.72477			2
4.61	4.63	4.65	614908.8	104.972321			3
E 4.73	4.75	4.77	2080064	1183.021023			4
4.83	4.85	4.87	326065.6	84.231077			5
5.14	5.16	5.18	3017707	758.88706			6
Height Summation:			**7191382.5**				
Amount Avg CF:			**421.696382**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:11:53
Instrument : CP20--17342B
Result file : 20PCBS17137009B.025.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

%SSR(TCX) : 114% (61-152) Conc.: 33.27386
%SSR(DCB) : 105% (48-164) Conc.: 30.68039

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	4.47	
2.88	2.90	2.92	5454794	482.399719			1
3.21	3.23	3.25	6874859	489.241122			2
+ 3.40	3.40	3.44	292305	20.701538			3
3.40	3.42	3.44	7716248	546.477834			3
3.47	3.49	3.51	8619316	516.182301			4
3.63	3.65	3.67	7158393	510.235917			5
+ 3.72	3.72	3.76	1523579	126.733526			6
3.72	3.74	3.76	6050278	503.27096			6
Height Summation:			**41873888**				
Amount Avg CF:			**507.967975**	Linear:			
Aroclor-1221					3	33.42	
2.77	2.78	2.81	1055132	176.811701			1
E 2.83	2.85	2.87	1168668	317.68888			2
E 2.88	2.90	2.92	5454794	357.449637			3
Height Summation:			**7678594**				
Amount Avg CF:			**283.983406**	Linear:			
Aroclor-1232					6	32.87	
E 2.88	2.90	2.92	5454794	394.855864			1
E 3.21	3.23	3.25	6874859	1029.681505			2
+ 3.40	3.40	3.44	292305	48.934812			3
E 3.40	3.42	3.44	7716248	1291.777918			3
E 3.47	3.49	3.51	8619316	1174.498735			4
E 3.66	3.67	3.70	2759844	1377.045718			5
E+ 3.66	3.70	3.70	2513959	1254.359477			5
E 3.73	3.74	3.77	6050278	1151.453177			6
Height Summation:			**37475339**				
Amount Avg CF:			**1069.885486**	Linear:			
Aroclor-1242					6	7.28	
E 2.88	2.90	2.92	5454794	561.039263			1
E 3.21	3.23	3.25	6874859	592.073289			2
+ 3.40	3.40	3.44	292305	25.59918			3
E 3.40	3.42	3.44	7716248	675.765444			3
E 3.47	3.49	3.51	8619316	660.465512			4
E 3.64	3.65	3.68	7158393	666.208127			5
E+ 3.64	3.67	3.68	2759844	256.849617			5
E 3.73	3.74	3.77	6050278	628.629376			6
Height Summation:			**41873888**				
Amount Avg CF:			**630.696835**	Linear:			
Aroclor-1248					6	78.13	
+ 3.40	3.40	3.44	292305	52.488622			1
E 3.40	3.42	3.44	7716248	1385.59115			1
3.51	3.53	3.55	5738510	365.355468			2
3.63	3.65	3.67	7158393	364.789374			3
+ 3.72	3.72	3.76	1523579	107.526482			4
3.72	3.74	3.76	6050278	426.997951			4
3.86	3.87	3.90	8127276	302.827136			5
+ 4.22	4.22	4.26	1576184	132.830573			6
+ 4.22	4.23	4.26	1695741	142.906062			6
4.22	4.25	4.26	4354920	367.004436			6
Height Summation:			**39145625**				
Amount Avg CF:			**535.427586**	Linear:			

Eurofins Lancaster Laboratories-Multiple Component Data Summary

Sample Name: **LCSA** 5/25/17 ACF LCS31144 Sample ID: AB **Batchnumber: 171440031A**
Sample Amount: 10 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10225

Analysis Report (A)

Injected on : May 26, 2017 19:11:53
Instrument : CP20--17342A
Result file : 20PCBS17137009.025.RAW
Calibration file : 20PCBS1713701.CAL
Method file : 20PCBS.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	3.61	
4.73	4.75	4.77	2080064	496.327091			1
5.03	5.05	5.07	1173204	506.642742			2
5.20	5.23	5.24	1416026	522.24629			3
5.37	5.39	5.41	1637313	529.236475			4
5.61	5.63	5.65	3981579	530.912474			5
5.82	5.84	5.86	2047711	486.052772			6
Height Summation:			**12335897**				
Amount Avg CF:			**511.902974**	Linear:			
Aroclor-1262					6	44.73	
E 5.21	5.23	5.24	1416026	283.648188			1
E 5.37	5.39	5.41	1637313	405.98113			2
E 5.61	5.63	5.65	3981579	408.466805			3
E 5.81	5.84	5.85	2047711	380.121409			4
+ 5.87	5.88	5.91	156145.4	58.511435			5
5.87	5.89	5.91	169374.2	63.468585			5
E 6.25	6.27	6.29	794438.2	241.697119			6
Height Summation:			**10046441.4**				
Amount Avg CF:			**297.730539**	Linear:			
Aroclor-1268					6	124.84	
5.81	5.84	5.85	2047711	170.942867			1
+ 5.87	5.88	5.91	156145.4	14.939597			2
5.87	5.89	5.91	169374.2	16.205295			2
6.00	6.02	6.04	60059.43	6.162539			3
6.07	6.08	6.11	62266.58	27.867894			4
6.25	6.27	6.29	794438.2	197.349849			5
6.45	6.47	6.49	212700	6.751794			6
Height Summation:			**3346549.41**				
Amount Avg CF:			**70.88004**	Linear:			

Analysis Report (B)

Injected on : May 26, 2017 19:11:53
Instrument : CP20--17342B
Result file : 20PCBS17137009B.025.RAW
Calibration file : 20PCBS1713701B.CAL
Method file : 20PCBSB.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	124.27	
4.16	4.17	4.19	1751501	83.780981			1
+ 4.22	4.22	4.26	1576184	42.49152			2
+ 4.22	4.23	4.26	1695741	45.714595			2
4.22	4.25	4.26	4354920	117.402011			2
4.31	4.33	4.35	14593180	845.702633			3
4.38	4.40	4.42	1469711	58.939529			4
E 4.44	4.46	4.48	17612780	1226.533184			5
4.60	4.62	4.64	1737746	99.333239			6
Height Summation:			**41519838**				
Amount Avg CF:			**405.28193**	Linear:			
Aroclor-1260					6	3.90	
4.31	4.33	4.35	14593180	516.870383			1
4.44	4.46	4.48	17612780	528.991455			2
4.55	4.57	4.59	14339100	535.279086			3
4.90	4.92	4.94	10999200	534.165116			4
5.09	5.11	5.13	26964580	577.031131			5
5.35	5.37	5.39	17261070	552.173114			6
Height Summation:			**101769910**				
Amount Avg CF:			**540.751714**	Linear:			
Aroclor-1262					6	29.61	
E 4.71	4.73	4.75	8563929	264.217104			1
E 4.90	4.92	4.94	10999200	341.142751			2
E 5.09	5.11	5.13	26964580	439.680352			3
5.31	5.32	5.35	4954157	194.95007			4
E 5.35	5.37	5.39	17261070	421.990613			5
E 5.73	5.75	5.77	6121912	276.548562			6
Height Summation:			**74864848**				
Amount Avg CF:			**323.088242**	Linear:			
Aroclor-1268					6	114.72	
5.31	5.32	5.35	4954157	59.859214			1
E 5.35	5.37	5.39	17261070	205.992686			2
5.51	5.53	5.55	455930.9	6.333336			3
5.57	5.59	5.61	371374	21.336897			4
E 5.73	5.75	5.77	6121912	217.044889			5
5.93	5.95	5.97	1537580	7.172669			6
Height Summation:			**30702023.9**				
Amount Avg CF:			**86.289949**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			51	9.9		2.23	4	40	
Aroclor-1221			51	15.3	E	4.88	3	5	
Aroclor-1232			51	12.3	E	6.97	4	10	
Aroclor-1242			51	12.3	E	3.32	4	30	
Aroclor-1248			51	9.9	E	24.26	4	40	
Aroclor-1254			51	13.2	E	3.97	4	40	
Aroclor-1260			51	11.7		5.48	4	40	
Aroclor-1262			51	9.9	E	8.17	4	40	
Aroclor-1268			51	9.9		19.61	4	40	

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: LCSA 5/25/17 ACF ABLCS31144 LCS 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:11:53 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Date File: 20pcbs17137009.025.RAW
Method File: 20PCBS.MET
Calibration File: 20pcbs1713701.CAL

RT A	Compound A	Height A	Area A
2.099		9116	10430
2.13		143790	93635
2.2		4018	2348
2.217		12142	8124
2.31		5434	3080
2.329		6100	3543
2.388		20377	15117
2.423		1040	744
2.476		1395	721
2.565		13229	10428
2.653		7389	5063
2.697		1218	939
2.732		5127	4174
2.781		19302	12282
2.826		1287	775
2.873		1483	1081
2.924	TCX	3797452	2520228
3.042		1324	1007
3.076		172971	144620
3.106		5521	3072
3.134		224587	152709
3.182		1018672	713852
3.231		1304	960
3.254		2456	1241
3.275		134399	92288
3.312		3020	1925
3.396		1020589	601505
3.412		453489	239017
3.449		115672	68855
3.465		30904	12843
3.482		95234	55960
3.512		1138524	845011
3.547		5040	2715
3.561		3447	1503
3.585		57445	39994
3.622		226817	133233
3.635		117661	53610
3.68		532213	287363
3.691		1196230	588971
3.727		1301564	986528
3.787		1109187	848210
3.826		82676	60950
3.854		778270	550992
3.881		537713	461549
3.902		169566	89322
3.977		852509	621693
4.002		282080	179651
4.032		317622	232303
4.068		851393	887700
4.108		276721	216041
4.153		40468	30511
4.192		47731	42149
4.226		964912	694552
4.247		233436	133564

RT A	Compound A	Height A	Area A
4.27		243304	177306
4.337		136048	119295
4.38		967825	886991
4.415		25040	16576
4.477		9306	7630
4.518		95071	95438
4.573		101240	63664
4.587		187725	125436
4.633		614909	541057
4.679		925448	990598
4.716		205545	144156
4.755		2080064	1920828
4.799		11285	11822
4.846		326066	352672
4.876		22345	13959
4.903		357626	328485
4.955		2516648	3047207
5.004		422749	378941
5.049		1173204	1263387
5.09		17179	9568
5.128		221165	260536
5.163		3017707	2697207
5.186		89459	46735
5.226		1416026	1231311
5.269		843519	807596
5.391		1637313	2114051
5.449		704170	674027
5.49		393722	340101
5.53		84358	82814
5.574		543707	521888
5.63		3981579	3946245
5.715		3081	3254
5.836		2047711	2173152
5.878		156145	210551
5.89		169374	103332
6.021		60059	60738
6.085		62267	47620
6.108		337924	290173
6.266		794438	825124
6.312		54429	54870
6.466		212700	228457
6.611	DCB	2152549	2237210
7.35		401	499
7.631		745	604
8.683		2389	3231

LANCASTER LABORATORIES

Sample Number: LCSA 5/25/17 ACF ABLCS31144 LCS 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:11:53 PM Injection Volume: 1 ul
Instrument ID: CP20-17342 Analyst: 2855
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold 2 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 20pcbs17137009B.025.RAW
Method File: 20PCBSB.MET
Calibration File: 20pcbs1713701b.CAL

RT B	Compound B	Height B	Area B
2.002		3038	4692
2.053		40887	26224
2.095		10227	4580
2.113		148643	83996
2.156		21500	12430
2.183		9327	6109
2.199		5894	3920
2.235		14727	19283
2.298		53848	31240
2.326		29184	17345
2.366		6541	3780
2.395		144016	83324
2.433		37910	23009
2.478		6017	7800
2.499		3395	1720
2.57		15792	9472
2.59		16179	9283
2.615	TCX	23002510	13365490
2.658		423566	322872
2.734		49351	27744
2.785		1055132	704680
2.846		1168668	721663
2.898		5454794	3301394
2.948		25949	15226
3.008		718252	451583
3.066		1886	850
3.104		7061644	6742152
3.155		873883	540679
3.176		420521	238817
3.202		593150	339664
3.226		6874859	4649906
3.262		274405	154008
3.308		1868021	982700
3.324		1075934	527480
3.35		12161	5450
3.374		3869513	1982072
3.384		8873192	3842518
3.403		292305	107603
3.417		7716248	5000662
3.491		8619316	5219856
3.525		5738510	3463132
3.549		6359662	3405565
3.567		2010587	1007370
3.652		7158393	4611476
3.675		2759844	1432642
3.696		2513959	1440611
3.725		1523579	793956
3.741		6050279	3529503
3.783		2015255	1466389
3.83		319238	267508
3.852		1620145	949635
3.874		8127277	5156750
3.899		1695281	1011435
3.919		250371	120495

RT B	Compound B	Height B	Area B
3.937		921211	562644
3.973		6678256	4374758
4.007		314159	186482
4.022		469666	308450
4.069		11361	6588
4.083		51137	31243
4.117		504837	519516
4.149		10841	4388
4.174		1751501	1225607
4.217		1576184	901746
4.235		1695741	846719
4.248		4354921	2411484
4.274		2532895	2616100
4.326		14593180	10829170
4.373		192148	169420
4.396		1469711	979164
4.42		3158167	2294589
4.463		17612780	13328050
4.566		14339100	13185930
4.619		1737746	1424584
4.658		3762856	3175795
4.694		18387660	14990700
4.726		8563929	5847806
4.765		5931111	4646217
4.839		252120	191606
4.864		1865110	1886523
4.916		10999200	8474089
4.939		1432745	901669
4.989		5583953	4911372
5.025		2781264	2214079
5.055		2126228	1720074
5.087		945609	554720
5.11		26964580	21574520
5.15		511423	389055
5.182		941293	784498
5.222		10245	5564
5.301		280171	180651
5.325		4954157	4041592
5.37		17261070	17969130
5.467		10691	7385
5.49		8776	4812
5.525		455931	386982
5.569		414017	315904
5.593		371374	265275
5.642		2763912	2342194
5.749		6121912	5048050
5.78		340624	251566
5.948		1537580	1398234
6.107	DCB	14946830	13428230
6.628		2650	2592
6.948		1873	2263
7.018		1949	1826
7.342		35055	315111
7.599		3192	3749
7.717		3190	5847
7.981		1742	3262
8.214		19673	33259
8.607		1304	963

LCSA 5/25/17 ACF ABLCS31144 LCS 171440031A 10225 SW-846 8082

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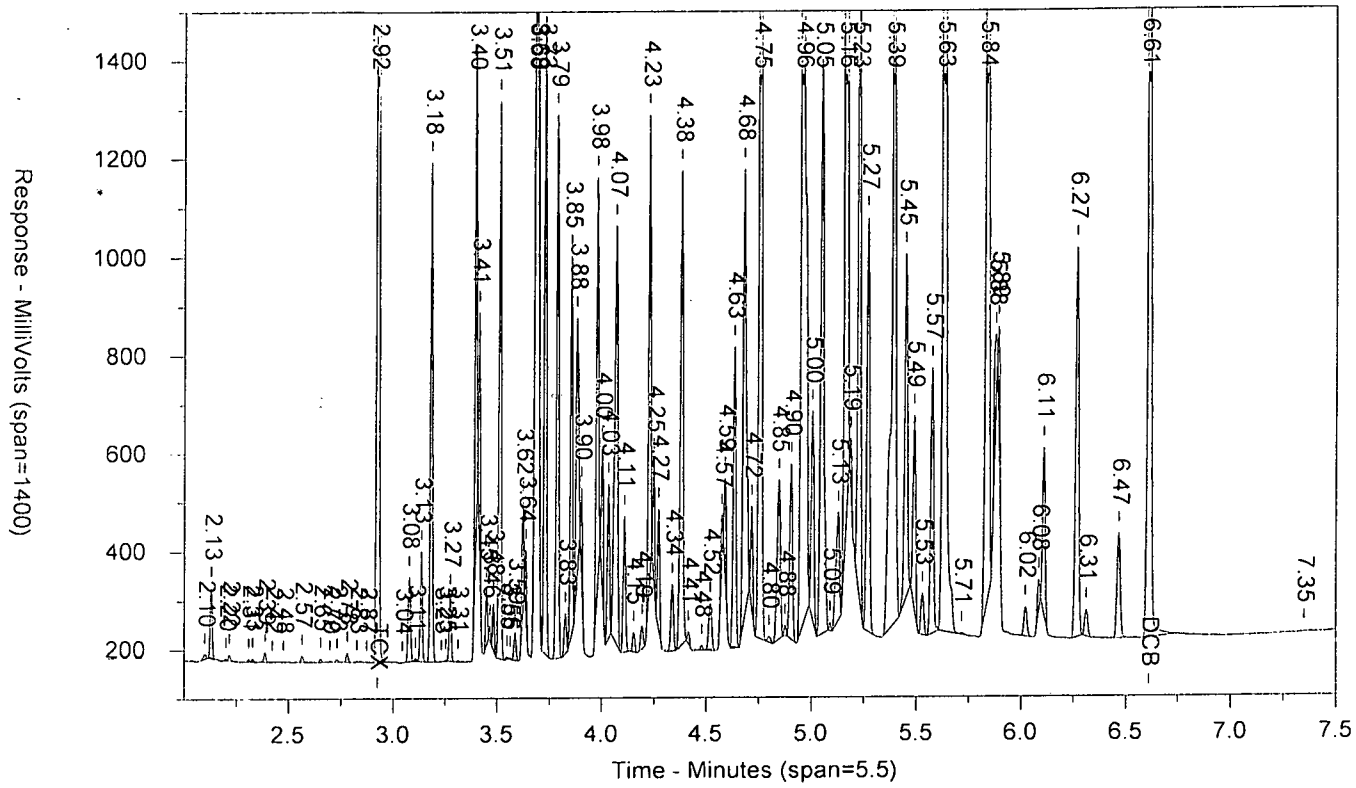

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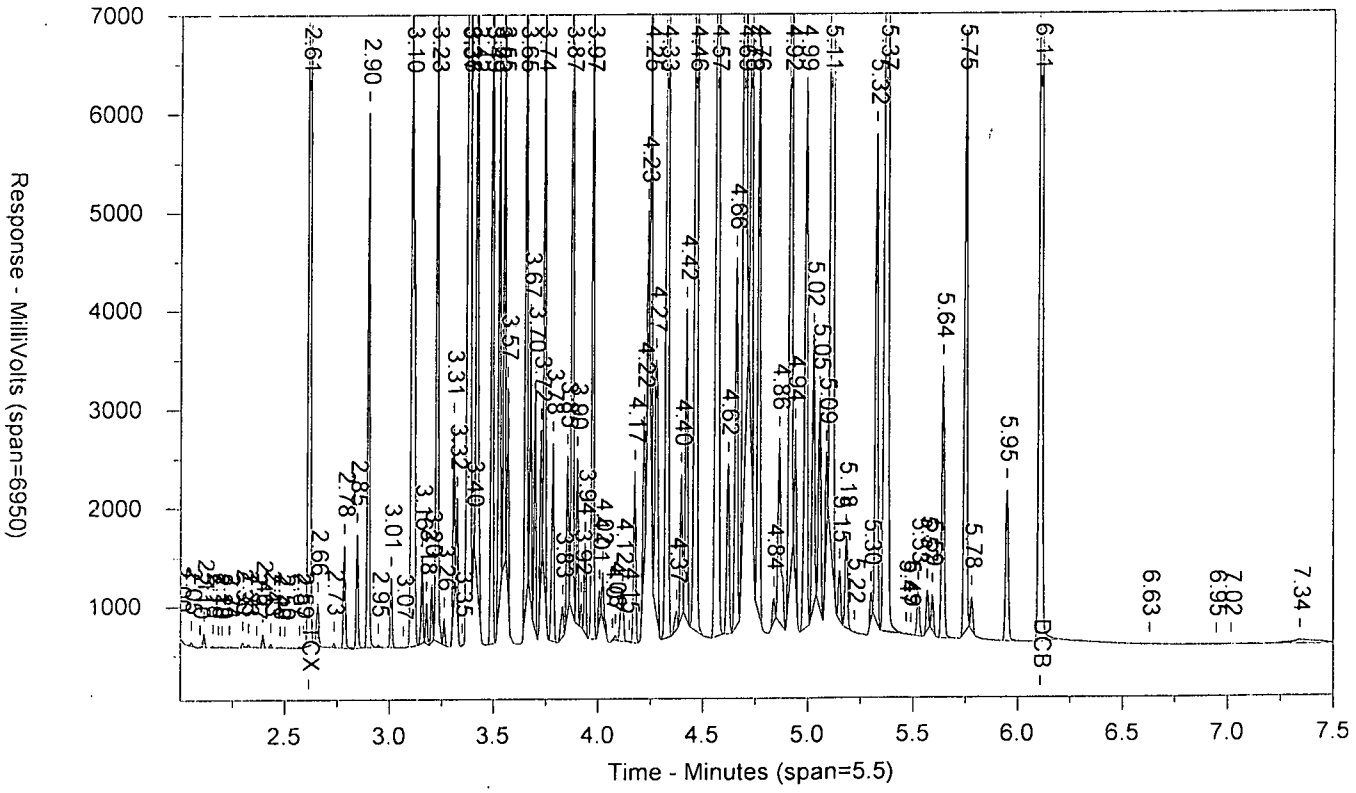

LANCASTER LABORATORIES

Sample Number: LCSA 5/25/17 ACF ABLCS31144 LCS 171440031A 10225 SW-846 8082
Injected On: 5/26/2017 7:11:53 PM Sample Weight: 10
Instrument ID: CP20-17342 Dilution Factor: 10
Oven Parameters: 110c to 250 @ 40c/min, to 280 @ 20c/min, to 330 @ 30c/min, hold for 5 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Injection Volume: 1 ul

Threshold: 5
Calibration Type: external
Quantitation: Height

Analyst: 2855

RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
2.924	3797452	33.416	TCX	2.615	23002510	33.274	TCX
6.611	2152549	31.28	DCB	6.107	14946830	30.68	DCB

Files:
Area File: 20pcbs17137009.025.RAW
Area File: 20pcbs17137009B.025.RAW
Method A: 20PCBS.MET
Method B: 20PCBSB.MET
Calibration File A: 20pcbs1713701.CAL
Calibration File B: 20pcbs1713701b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 5/26/2017 7:20:38 PM
File Reported On: 5/26/2017 at 7:20:46 PM

LCSA 5/25/17 ACF ABLCS31144 LCS 171440031A 10225 SW-846 8082

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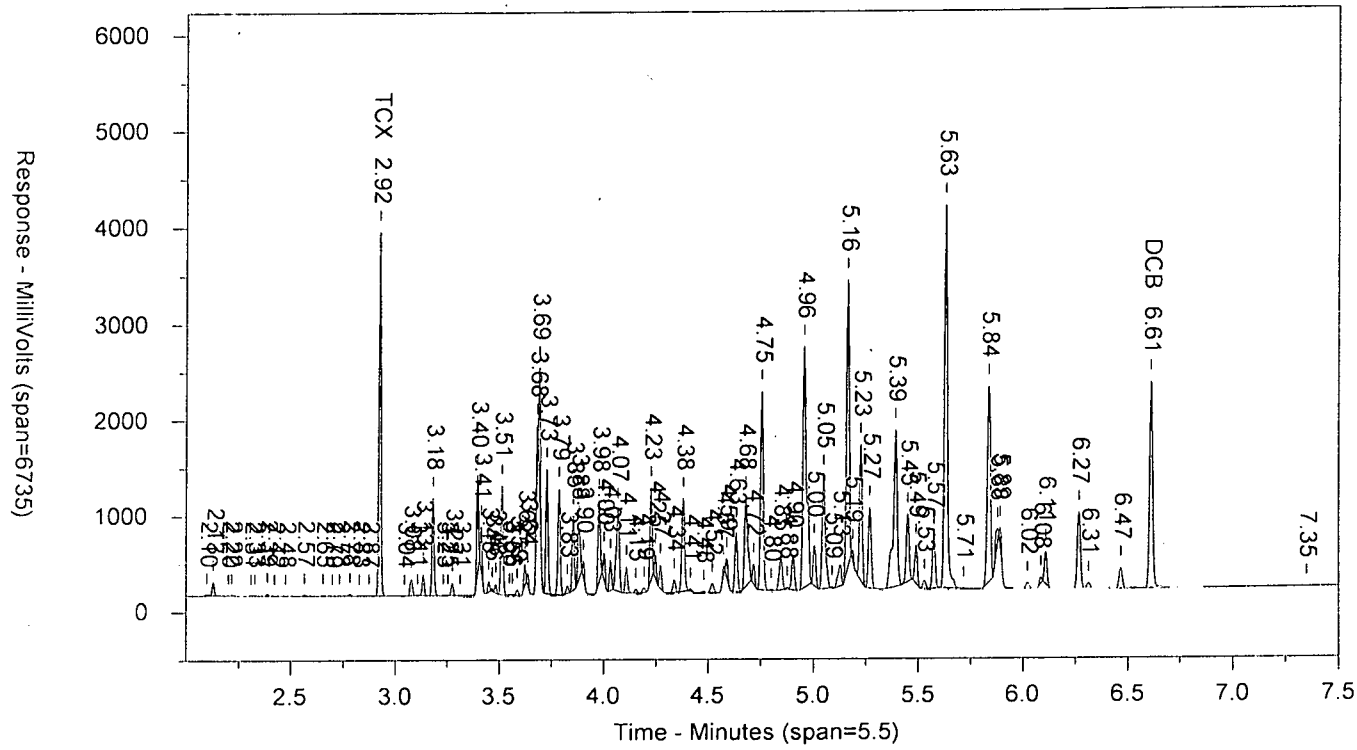

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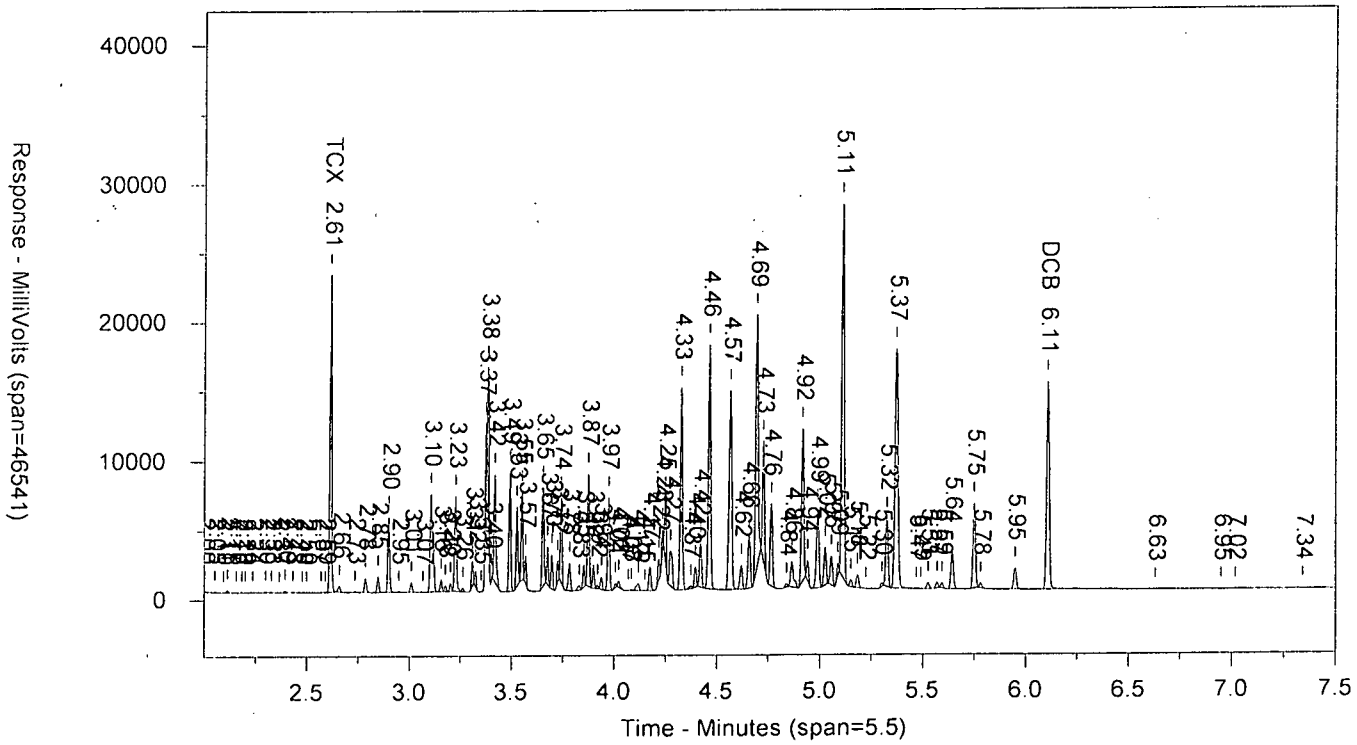

Extraction/Distillation/Digestion Logs

Polychlorinated Biphenyls (PCBs)

Organic Extraction Batchlog

171440031A

Assigned to: 8993 Michelle Newswanger

Reviewed by: JM 2055 Start Date: 5-25-17 Start time: 9:00

Tech 1: MN 8993 Tech 2:

Dept: 24 Prep Analysis: 14248 PCB 10g Sonication Ext PCBs in Solids by 8082/3550

	QC	Sample Code	Amt G	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
50	9004842MS	A5502	10.16	SS1713724A	1	MS1712124B	1	10	Z	Z	314A	
50	9004843MSD	A5502	10.43	SS1713724A	1	MS1712124B	1	10	Z	Z	314A	
	BLANKA	PBLK31144	100	SS1713724A	1	—		10	Z	Z		NA2SO4
	LCSA	LCS31144	10.0	SS1713724A	1	MS1712124B	1	10	Z	Z		

Solvent Used	Lot No.
1:1 MeCl2/Acetone	
Filter Paper	9762804
Hexane	
Sodium Sulfate	17147A

KMT 0106 5/26/17

Spike Solutions: Witness: N/A

MS1712124B PCB SPIKE

SS1713724A SW846 SURROGATE STANDARI

	Sample #	Sample Code	Amt G	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
50	1 9004840	A5501	10.13	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
50	2 9004841BKG	A5502	10.33	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
50	3 9004844	A5503	10.09	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
100	4 9004845	A5504	10.07	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
100	5 9004846	A5505	10.26	SS1713724A	1	10	Z	Z	314A	Soil;Gritty;Rocks;Brown	10225	1869	06/01/2017	N
100	6 9004847	A5506	10.07	SS1713724A	1	10	Z	Z	314A	Soil;Gritty;Rocks;Brown	10225	1869	06/01/2017	N
200	7 9004848	A5507	10.01	SS1713724A	1	10	Z	Z	314A	Soil;Gritty;Rocks;Brown	10225	1869	06/01/2017	N
200	8 9004849	A5508	10.07	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
	9 9004850	A5509	10.03	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
	10 9004851	A5510	10.37	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
	11 9004852	A5511	10.14	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
	12 9004853	A5512	10.04	SS1713724A	1	10	Z	Z	314A	Soil;Wet;Rocks;Brown	10225	1869	06/01/2017	N
	13 9004854	A5513	10.29	SS1713724A	1	10	Z	Z	314a	Soil;Gritty;Brown	10225	1869	06/01/2017	N
	14 9004855	A5514	10.12	SS1713724A	1	10	Z	Z	314a	Soil;Wet;Rocks;Brown	10225	1869	06/01/2017	N
	15 9004856	A5515	10.16	SS1713724A	1	10	Z	Z	314A	Soil;Gritty;Rocks;Brown	10225	1869	06/01/2017	N
	16 9004857	A5516	10.36	SS1713724A	1	10	Z	Z	314A	Soil;Gritty;Rocks;Brown	10225	1869	06/01/2017	N
	17 9004858	A5517	10.35	SS1713724A	1	10	Z	Z	314A	Soil;Gritty;Rocks;Brown	10225	1869	06/01/2017	N
	18 9004859	A5518	10.17	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N
	19 9004860	A5601	10.25	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N

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Bench#	Bench#	Bench#		
Rack ID:		Work Station	Hood 3	Micro Temp 100?
Internal Standard		Balance #		

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C			
S-bath ID	98 C	S-bath ID	C	N-Evap	C	M-vap	C	171440031A

#6

DF = Dilution Factor FV = Final Volume

Documented temps are NIST corrected.

Sample #	Sample Code	Amt	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
20 9004861	A5602	10.18	SS1713724A	1	10	Z	Z	314A	Soil;Rocks;Brown	10225	1869	06/01/2017	N

5-25-17
N/A
MN8993

Bench#	Bench#	Bench#		
Rack ID:		Work Station		Micro Temp 100?
Internal Standard		Balance #		

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C		
S-bath ID	C	S-bath ID	C	N-Evap	C	M-vap	C

171440031A

DF = Dilution Factor FV = Final Volume

Page 2 of 2

Documented temps are NIST corrected.

Prep-Process Worksheet

Acid Cleanup

Prep: 14248 PCB 10g Sonication Ext

Batch No: 171440031A

Verified: SLA 2855
Start Date: 5-25-17
Start Time: 17:30
Tech 1: MNJ993
Tech 2:

Sample #		QC	Aliquot (g)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	9004840		10	10				10225
2	9004841							10225
3	9004842	MS						10225
4	9004843	MSD						10225
5	9004844							10225
6	9004845							10225
7	9004846							10225
8	9004847							10225
9	9004848							10225
10	9004849							10225
11	9004850							10225
12	9004851							10225
13	9004852							10225
14	9004853							10225
15	9004854							10225
16	9004855							10225
17	9004856							10225
18	9004857							10225
19	9004858							10225
20	9004859							10225
21	9004860							10225
22	9004861							10225
23	BLANKA							
24	LCSA							

2855
28 may 17

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Hexane	166948

Prep-Process Worksheet

Florisil
Prep: 14248 PCB 10g Sonication Ext
Batch: 171440031A

Verified: JLM2855
Start Date: 5-25-17
Start Time: 17:45
Tech 1: MW8993
Tech 2:

Sample #		QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	9004840		2	2				10225
2	9004841							10225
3	9004842	MS						10225
4	9004843	MSD						10225
5	9004844							10225
6	9004845							10225
7	9004846							10225
8	9004847							10225
9	9004848							10225
10	9004849							10225
11	9004850							10225
12	9004851							10225
13	9004852							10225
14	9004853							10225
15	9004854							10225
16	9004855							10225
17	9004856							10225
18	9004857							10225
19	9004858							10225
20	9004859							10225
21	9004860							10225
22	9004861							10225
23	BLANKA							
24	LCSA							

JLM2855 28May17

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Florisil	414916
S-Evap/bath	C	S-Evap/bath	C	N-Evap	C

The documented temperatures are NIST corrected.

Prep-Process Worksheet

Copper

Prep: 14248 PCB 10g Sonication Ext

Batch No: 171440031A

Verified: JLM 2855
Start Date: 5-25-17
Start Time: 18:00
Tech 1: MN 8993
Tech 2:

Sample #		QC	Aliquot (g)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	9004840		2	2				10225
2	9004841							10225
3	9004842	MS						10225
4	9004843	MSD						10225
5	9004844							10225
6	9004845							10225
7	9004846							10225
8	9004847							10225
9	9004848							10225
10	9004849							10225
11	9004850							10225
12	9004851							10225
13	9004852							10225
14	9004853							10225
15	9004854							10225
16	9004855							10225
17	9004856							10225
18	9004857							10225
19	9004858							10225
20	9004859							10225
21	9004860							10225
22	9004861							10225
23	BLANKA							
24	LCSA							

JLM 2855
28 may 7

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Copper	L6170170BC

Moisture Data

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CLIENT: Stantec
SDG: ATE55

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
9004840	A5501
9004841	A5502BKG
9004842	A5502MS
9004843	A5502MSD
9004844	A5503FD
9004845	A5504
9004846	A5505
9004847	A5506
9004848	A5507
9004849	A5508
9004850	A5509
9004851	A5510
9004852	A5511
9004853	A5512
9004854	A5513
9004855	A5514
9004856	A5515
9004857	A5516
9004858	A5517
9004859	A5518

COMMENTS:

Method defined actions are taken for any failed matrix QC.

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 17145820008B	Sample number(s): 9004840-9004859				
Moisture	100		99-101		
Moisture	100		99-101		
Moisture Duplicate	100		99-101		

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 17145820008B	Sample number(s): 9004840-9004859			
Moisture	2.1	2.2	5 (1)	5
Moisture	2.1	2.2	5 (1)	5
Moisture Duplicate	2.1	2.2	5 (1)	5

* - Outside of specification

(1) - The result for one or both determinations was less than five times the LOQ.

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CLIENT: Stantec
SDG: ATE55

MOISTURE

Moisture Data Report

Batch #: 17145820008

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
9004840	B	00111	1.1374	5.1051	6.1276	2.25	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004841BKG	B	00111	1.1597	5.7367	6.7778	2.07	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004842MS	B	00118				2.07	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004843MSD	B	00118				2.07	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004843MSD	B	00121	1.1093	6.5222	7.4898	2.17	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004844FD	B	00111	1.1079	7.1181	8.0995	1.78	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004845	B	00111	1.1091	6.5526	7.5595	1.56	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004846	B	00111	1.1348	5.6922	6.5110	5.55	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004847	B	00111	1.1201	6.4418	7.3587	3.15	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004848	B	00111	1.1380	5.9660	6.5255	9.70	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004849	B	00111	1.1173	5.8630	6.7195	4.45	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004850	B	00111	1.1174	6.1133	6.9114	5.22	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004851	B	00111	1.1424	7.7394	8.3228	7.22	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004852	B	00111	1.1086	5.1454	6.0507	3.95	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004853	B	00111	1.1477	6.1426	6.3486	15.33	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004854	B	00111	1.1351	5.9868	6.7670	5.93	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004855	B	00111	1.1314	7.0572	7.8214	5.20	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004856	B	00111	1.1266	5.1652	5.9256	7.09	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004857	B	00111	1.1109	5.3981	6.0383	8.72	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004858	B	00111	1.1458	5.6968	6.5879	4.47	5/26/17 (189/WCS)	5/30/17 (236/CW)
9004859	B	00111	1.1482	7.1253	7.6573	8.65	5/26/17 (189/WCS)	5/30/17 (236/CW)
LCS 89.5% Std.		00111	1.1177	5.0032	1.6469	89.42	5/26/17 (189/WCS)	5/30/17 (236/CW)